

PHOTOMETRICS REPORT

L Ω GIC AR111 Downlight S



ILUMINARC[®]

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Testing Process

Total Illuminance Measurements

Illuminance is measured using the Viso Systems LabSpion®, which takes multiple measurements across a light beam to calculate the total delivered lumens, beam, and field of a product. These values can be described as the empirical output of the product as it projects from the lens or lenses. All photometric data contained in this report are obtained from the actual illuminance of the tested Chauvet light source and are never theoretical values derived from calculations.

Testing Lab Equipment and Process

The Chauvet headquarters in Sunrise, Florida has a climate- and light-controlled photometric testing laboratory where Chauvet products are analyzed and photometric data are measured using the Viso Systems LabSpion® light measurement solution.

This system includes a spectrometer sensor, which measures the precise light and color output of the fixture, and a two-axis goniometer, which rotates the product to allow for multi-angle and multi-directional measurement. The Viso Light Inspector software then collects and summarizes the data. From the data gathered, the software can also measure the beam and field angles, accurate color temperature, color quality, and illuminance at multiple distances. The custom-built, Chauvet-specific template presents this information in the photometric and chromaticity reports that follow.

IES (Illuminating Engineering Society) files, an industry-standard file format, are also generated from each test for easy distribution of photometric data.

Several light meters are also used for specific products or to recheck for precision. Accuracy is verified using one or more of the devices listed below:

- Sekonic SpectroMaster C-700-U
- EXTECH HD450 Datalogging Heavy Duty Light Meter
- Asensetek Essence Lighting Passport

To ensure accurate measurements in every photometric or chromaticity test, Chauvet routinely calibrates the LabSpion® system every six months as recommended by Viso Systems.

LΩGIC AR111 Downlight S

**Photometrics &
Chromaticity
Reports**

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Photometric & Chromaticity Report

Logic AR111 Downlight S: No Optics - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 729 lm
Fixture Peak: 19217 cd
Fixture Efficacy: 26 lm/W
Intensity @ 5m: 768 lux
Color Temperature: 6635 K
CRI: 41.9 CRI R9 Value: -182.2
CQS: 58.8

TLCI: 24
TM-30 Rf: 57.3
TM-30 Rg: 102.7
Beam Angle (50%): 7.2°
Field Angle (10%): 16.2°
Cutoff Angle (3%): 28°

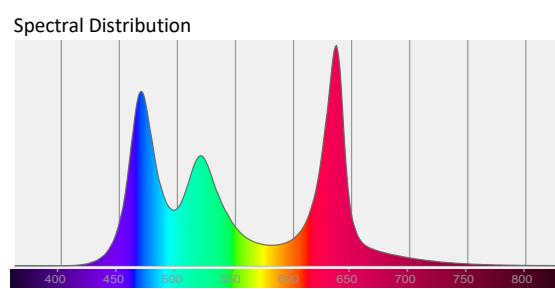
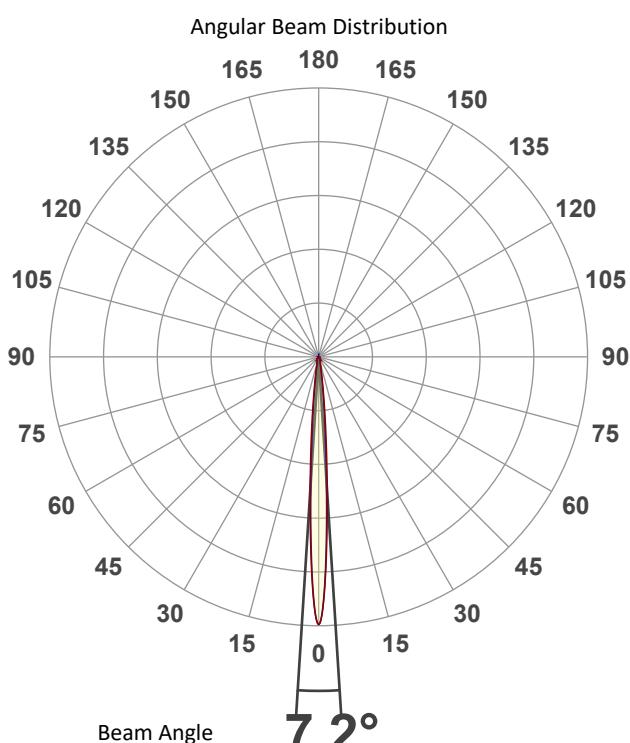
Conditions

AC Supply: 120 V, 60 Hz
Power: 30.2 W
Current: 0.253 A
Power Factor: 0.93



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/25/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.312
Y: 0.319

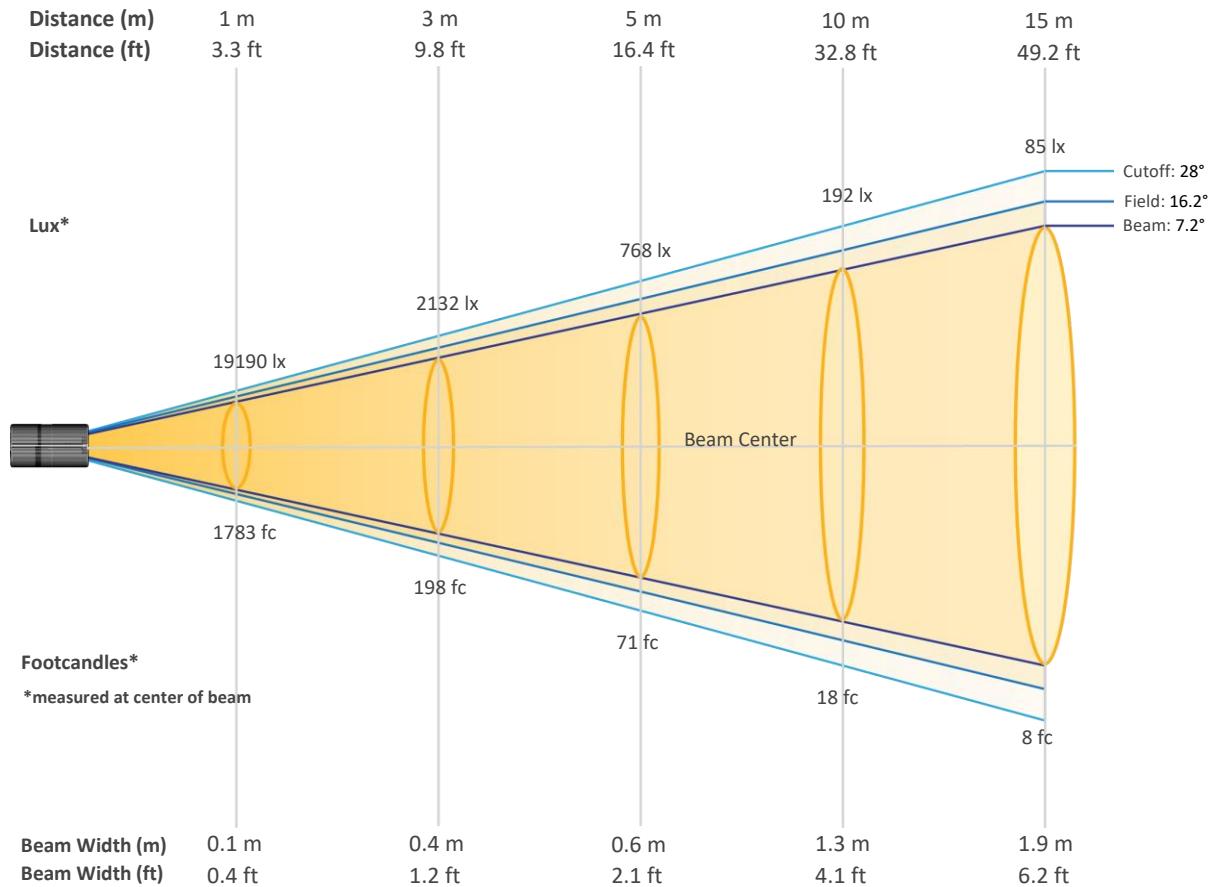
Light Quality
CRI: 41.9

Color Temperature
6635 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: No Optics - RGBW - Full Power

Beam Details

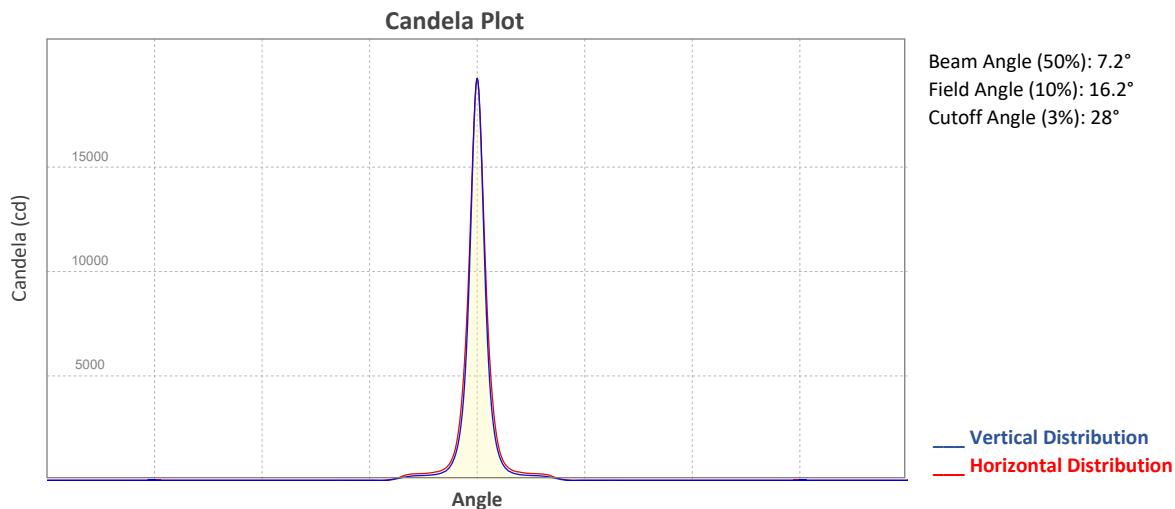


Beam Intensities from 1-20m (3.3-65.6ft)

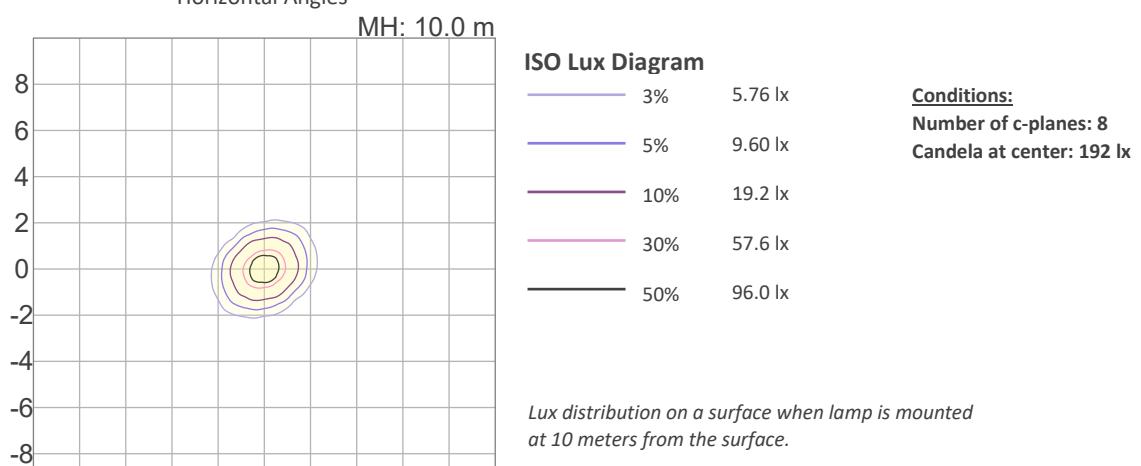
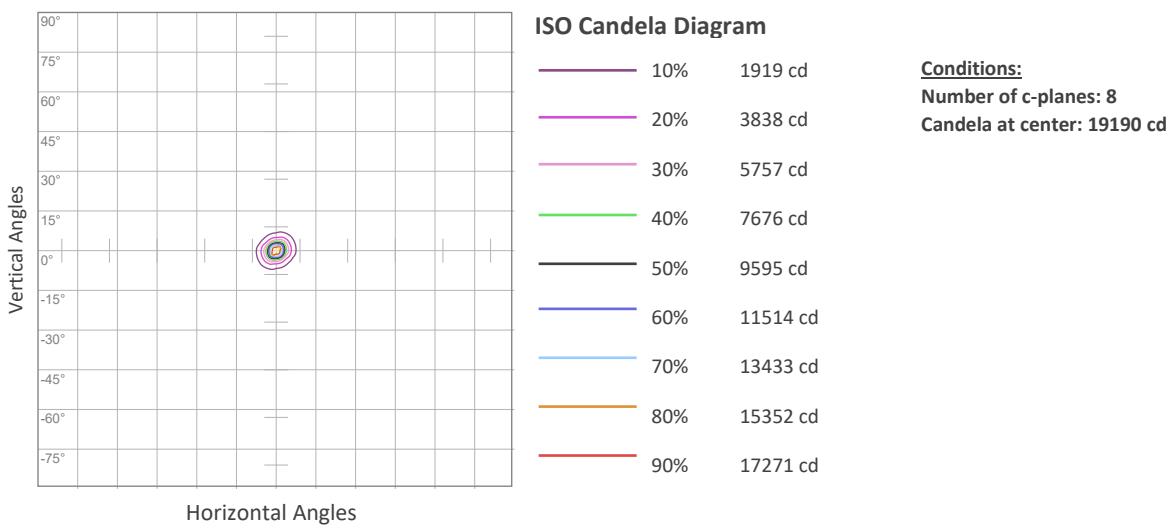
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	19190	4798	2132	1199	768	533	392	300	237	192
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	159	133	114	98	85	75	66	59	53	48
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	1783	446	198	111	71	50	36	28	22	18
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	15	12	11	9	8	7	6	6	5	4

Photometric & Chromaticity Report

Logic AR111 Downlight S: No Optics - RGBW - Full Power



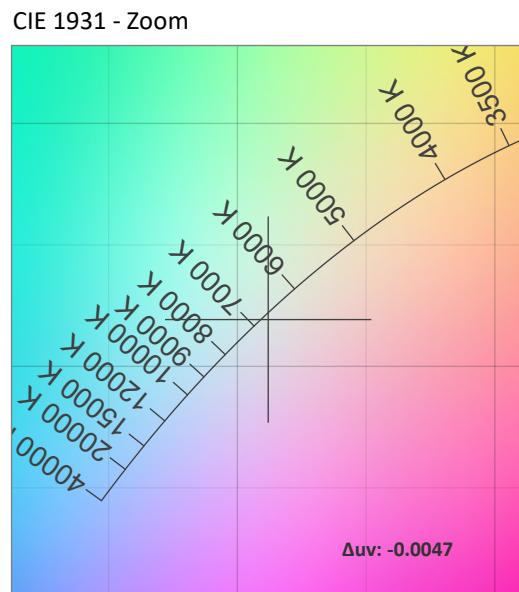
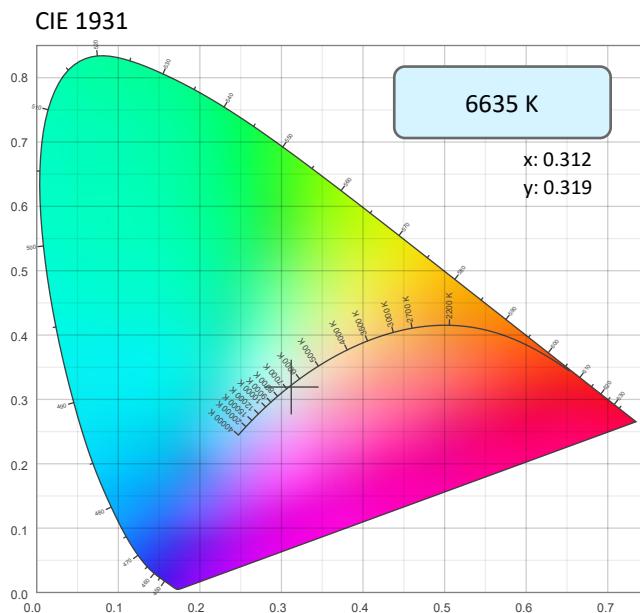
ISO Diagrams



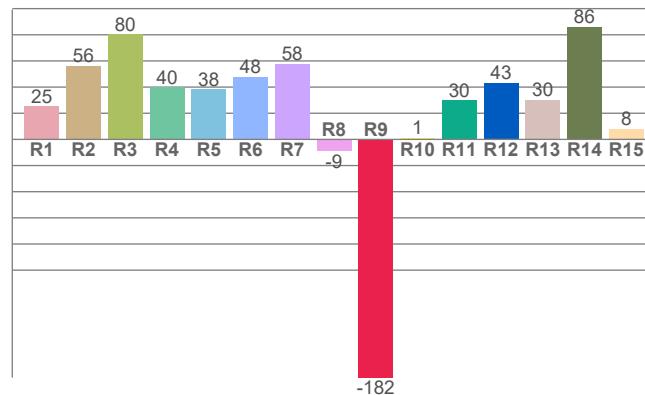
Photometric & Chromaticity Report

Logic AR111 Downlight S: No Optics - RGBW - Full Power

Chromaticity



CRI: 41.9 (R1-R8)

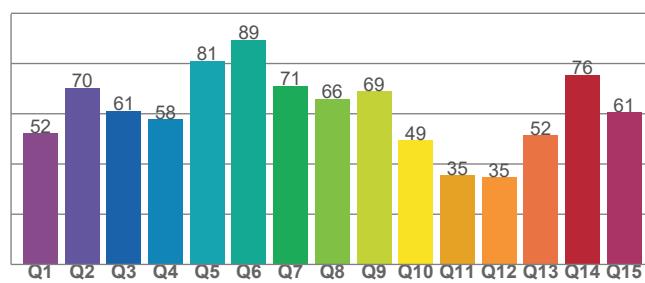


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6635 K	0.312	0.319

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0047	0.319	0.201

CQS: 58.8



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
41.9	-182.2	58.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
24	57.3	102.7

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Photometric & Chromaticity Report

Logic AR111 Downlight S: No Optics - RGBW - Full Power

TM-30 Details

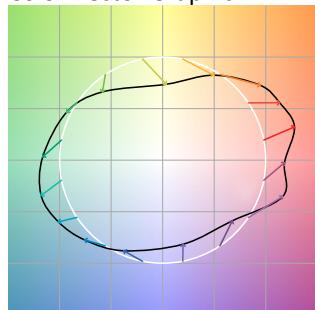
Rf 57.3

Fidelity Index
(Rg)

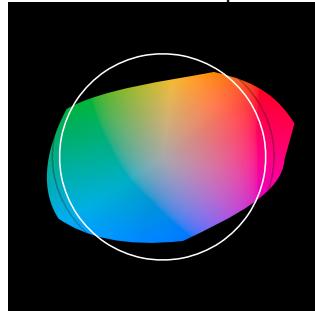
Rg 102.7

Gammut Index (Rg)

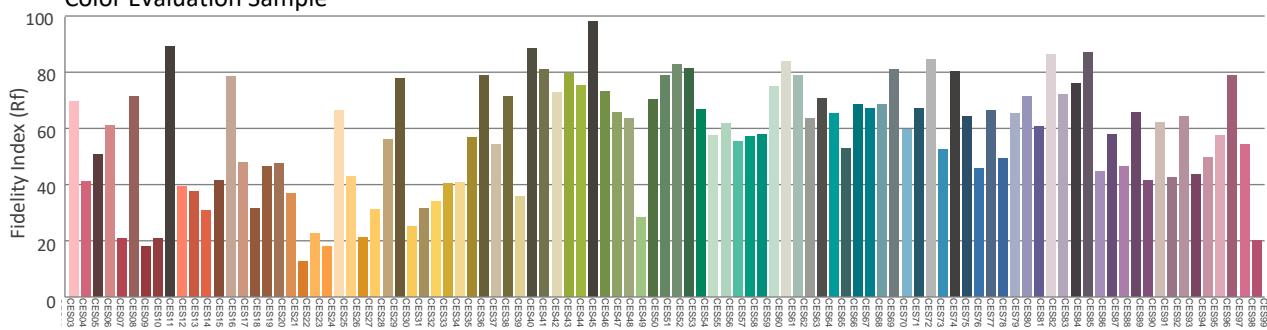
Color Vector Graphic



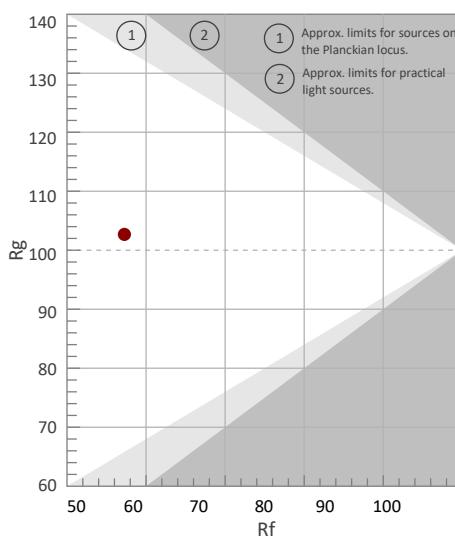
Color Distortion Graphic



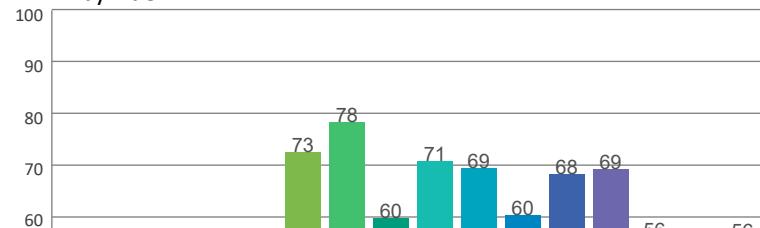
Color Evaluation Sample



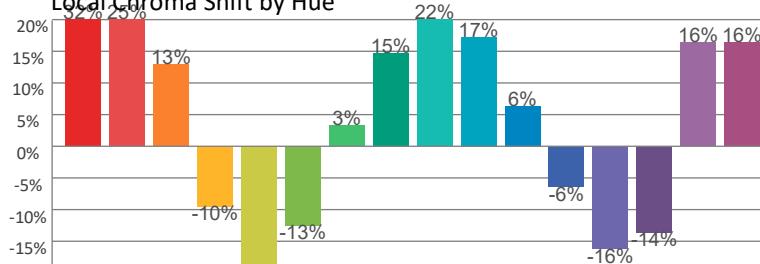
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	40	32%	7%
2	45	25%	-17%
3	39	13%	-38%
4	46	-10%	-33%
5	49	-28%	-18%
6	73	-13%	12%
7	78	3%	13%
8	60	15%	20%
9	71	22%	11%
10	69	17%	-6%
11	60	6%	-20%
12	68	-6%	-20%
13	69	-16%	3%
14	56	-14%	23%
15	51	16%	35%
16	56	16%	21%



Rf by Hue



Local Chroma Shift by Hue



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 562 lm
Fixture Peak: 656 cd
Fixture Efficacy: 20 lm/W
Intensity @ 5m: 26 lux
Color Temperature: 5870 K
CRI: 48.5 CRI R9 Value: -146.1
CQS: 63.0

TLCI: 28

TM-30 Rf: 61.9

TM-30 Rg: 103.7

Beam Angle (50%): 48.9°

Field Angle (10%): 94.4°

Cutoff Angle (3%): 123.4°

Conditions

AC Supply: 119 V, 60 Hz

Power: 30.73 W

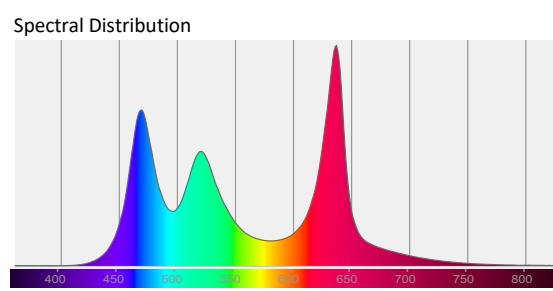
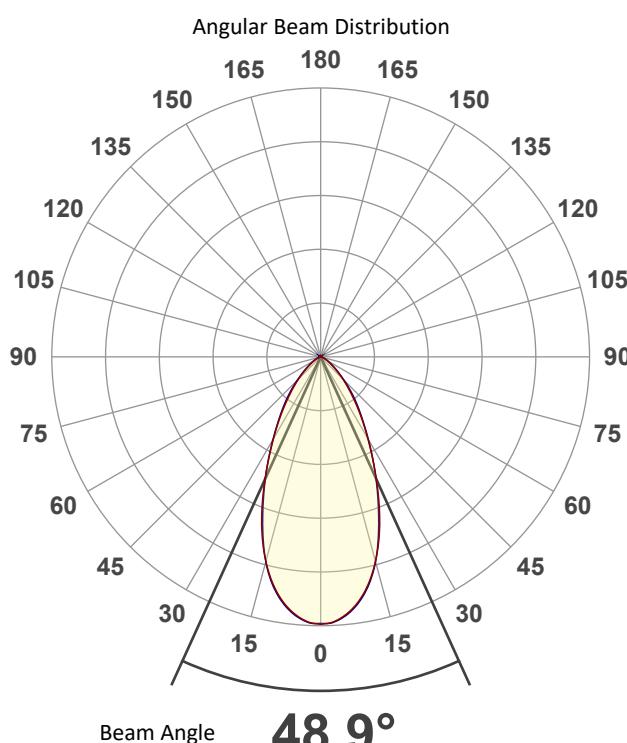
Current: 0.259 A

Power Factor: 0.93



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.325
Y: 0.336

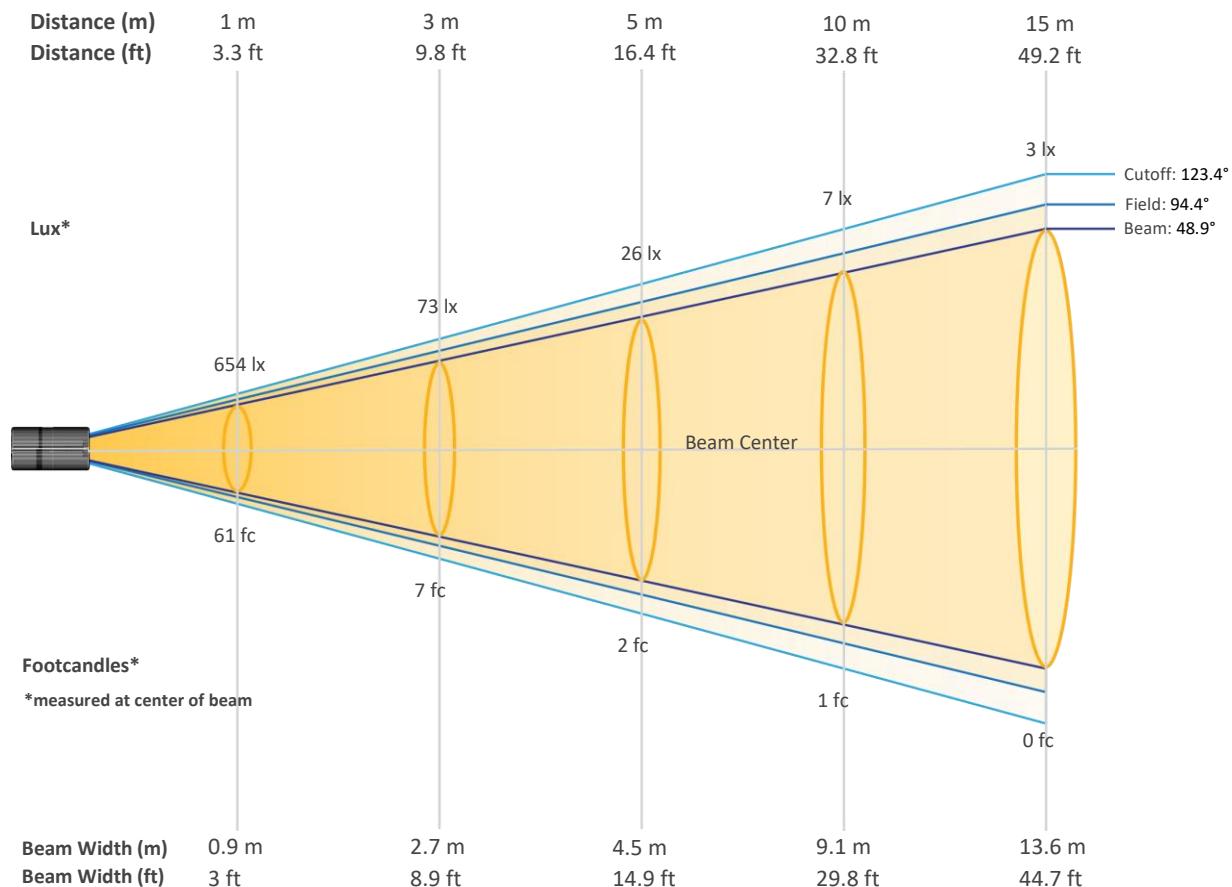
Light Quality
CRI: 48.5

Color Temperature
5870 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - RGBW - Full Power

Beam Details

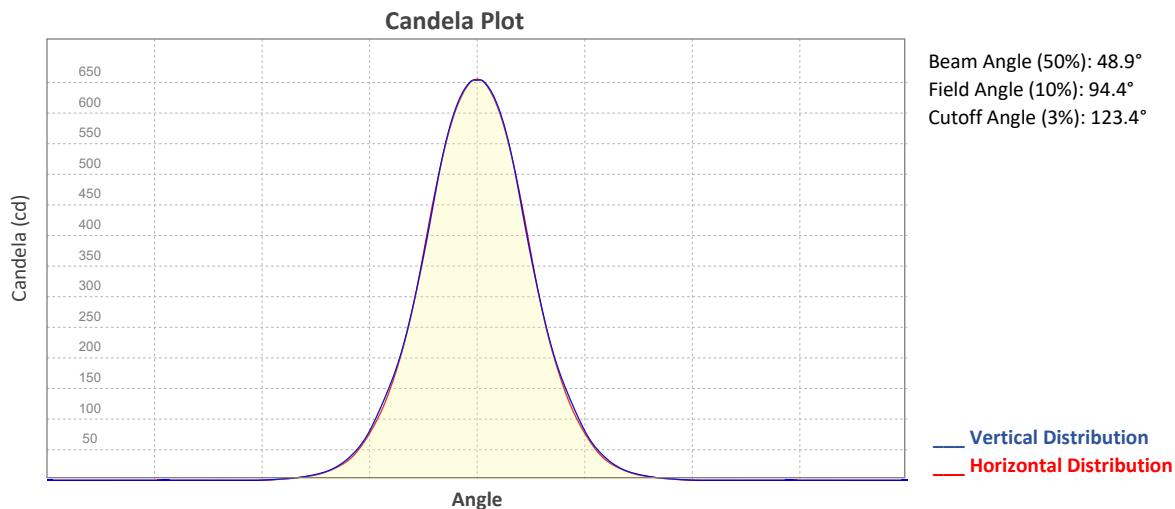


Beam Intensities from 1-20m (3.3-65.6ft)

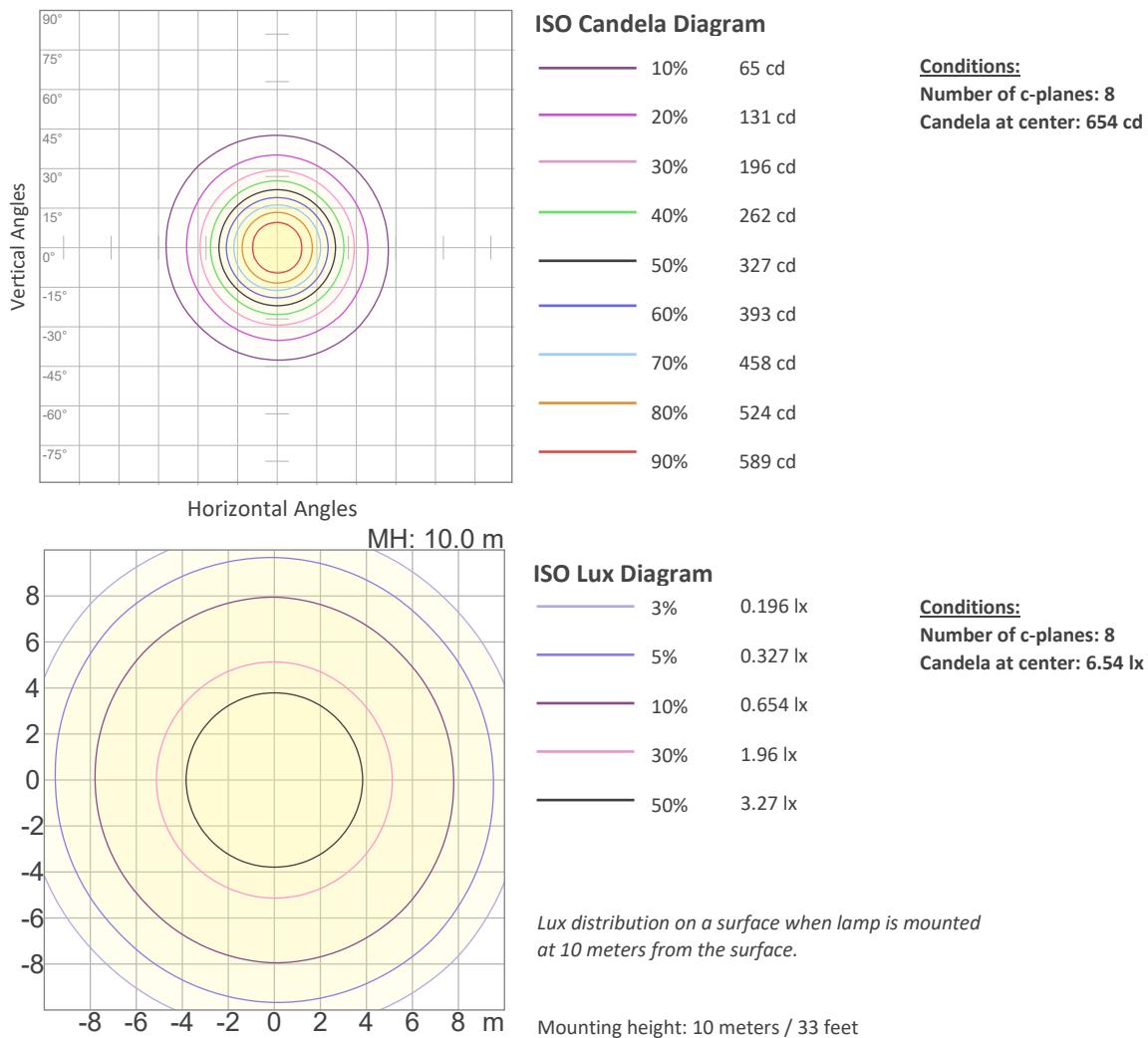
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	654	164	73	41	26	18	13	10	8	7
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	5	4	3	3	3	2	2	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	61	15	7	4	2	2	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - RGBW - Full Power



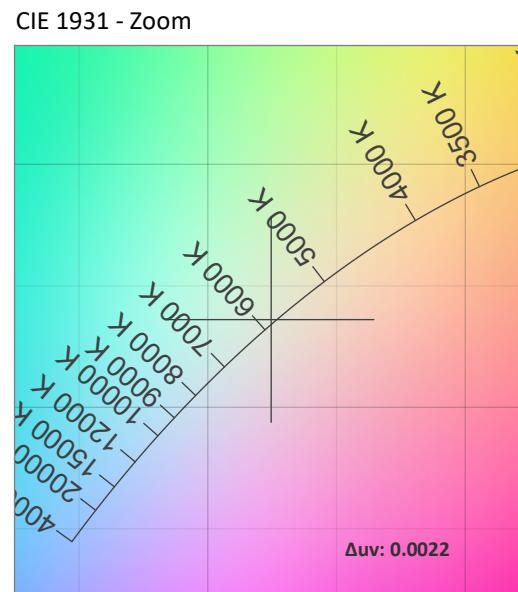
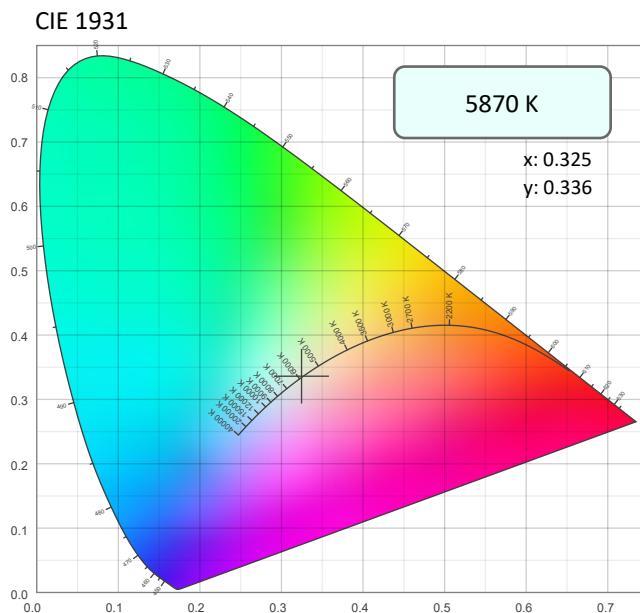
ISO Diagrams



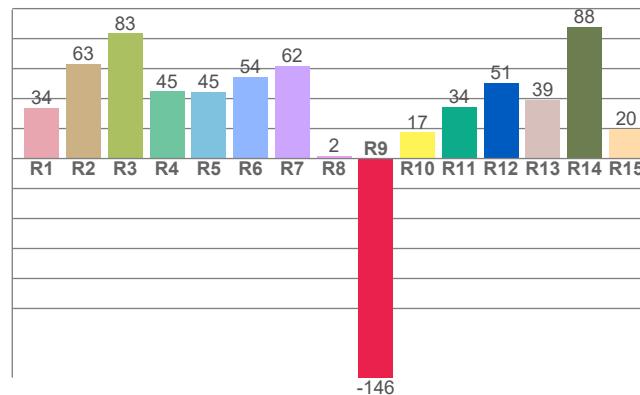
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - RGBW - Full Power

Chromaticity



CRI: 48.5 (R1-R8)

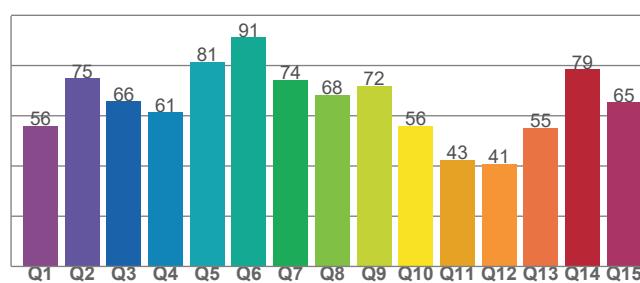


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5870 K	0.325	0.336

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0022	0.336	0.203

CQS: 63.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
48.5	-146.1	63.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
28	61.9	103.7

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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - RGBW - Full Power

TM-30 Details

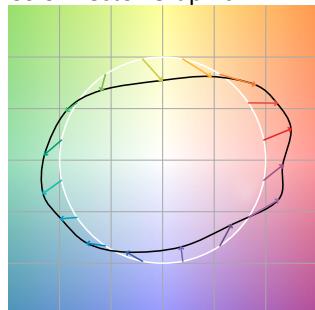
Rf 61.9

Fidelity Index
(Rg)

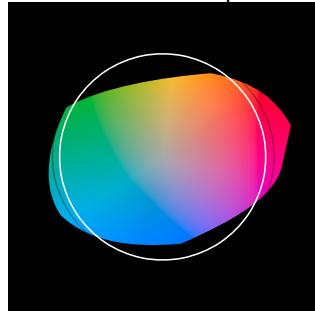
Rg 103.7

Gammut Index (Rg)

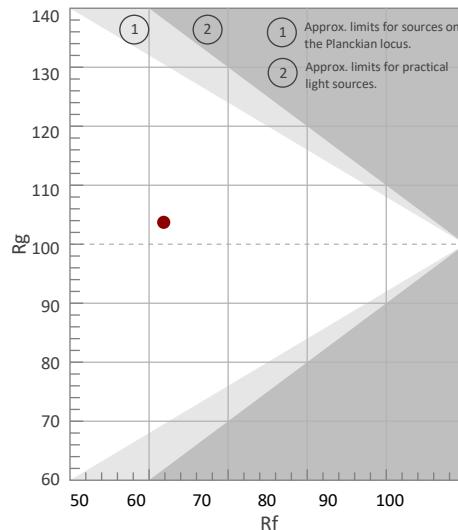
Color Vector Graphic



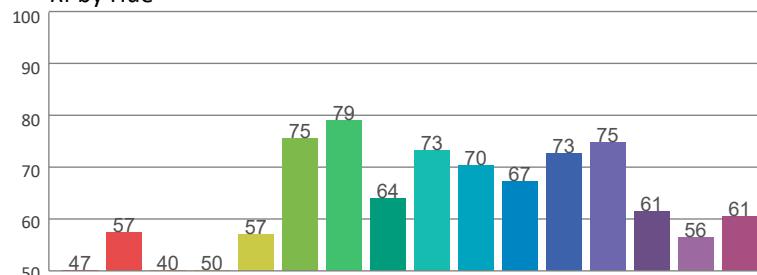
Color Distortion Graphic



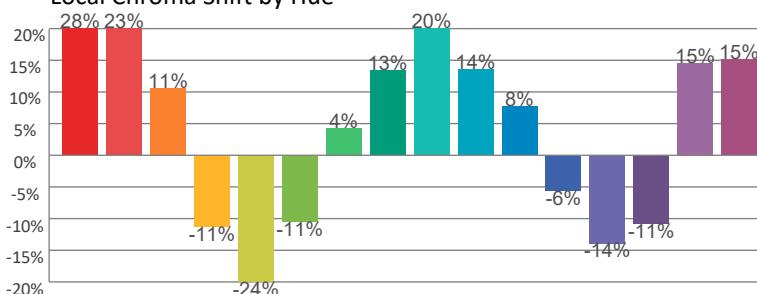
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	47	28%	5%
2	57	23%	-16%
3	40	11%	-34%
4	50	-11%	-30%
5	57	-24%	-14%
6	75	-11%	12%
7	79	4%	12%
8	64	13%	17%
9	73	20%	9%
10	70	14%	-8%
11	67	8%	-16%
12	73	-6%	-17%
13	75	-14%	1%
14	61	-11%	20%
15	56	15%	30%
16	61	15%	18%



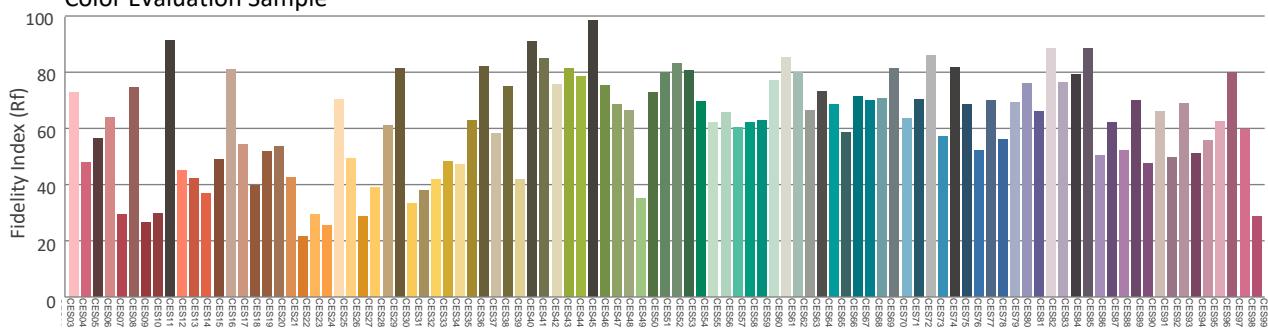
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Red Only

Report Summary

Measurements

Fixture Output: 134 lm
Fixture Peak: 157 cd
Fixture Efficacy: 9 lm/W
Intensity @ 5m: 6 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0

TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 48.9°
Field Angle (10%): 94.1°
Cutoff Angle (3%): 122.7°

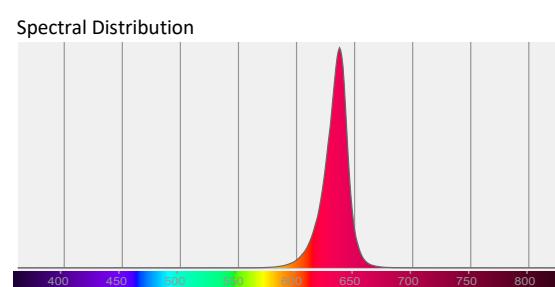
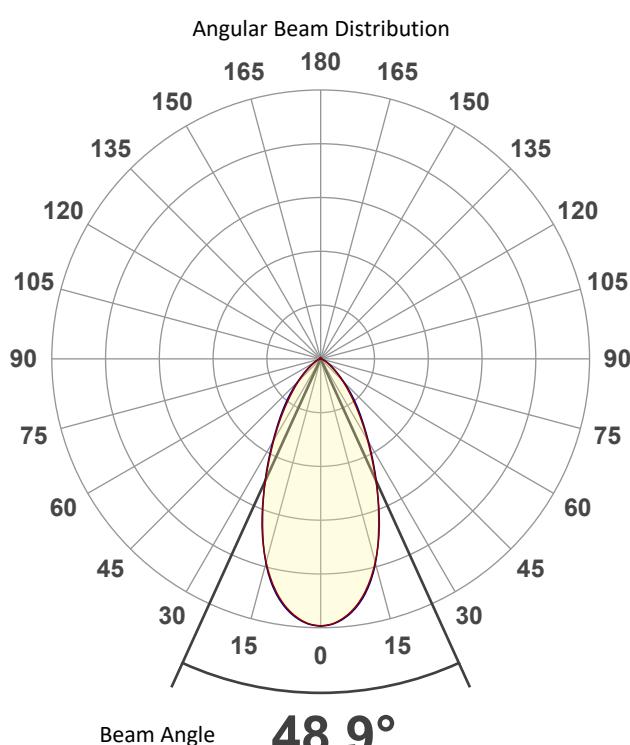
Conditions

AC Supply: 119 V, 60 Hz
Power: 18.68 W
Current: 0.156 A
Power Factor: 0.84



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.699
Y: 0.300

Light Quality

CRI: 0.0

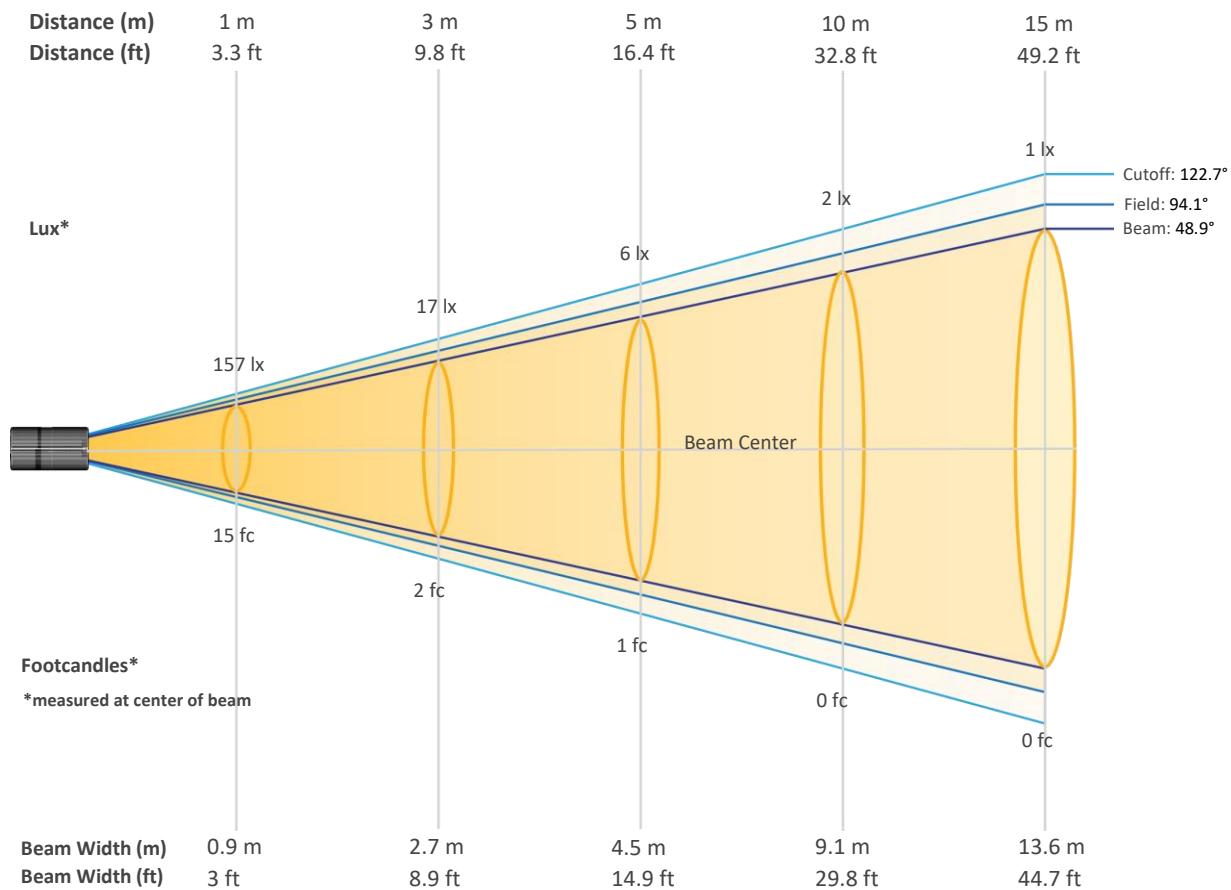
Color Temperature

0 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Red Only

Beam Details

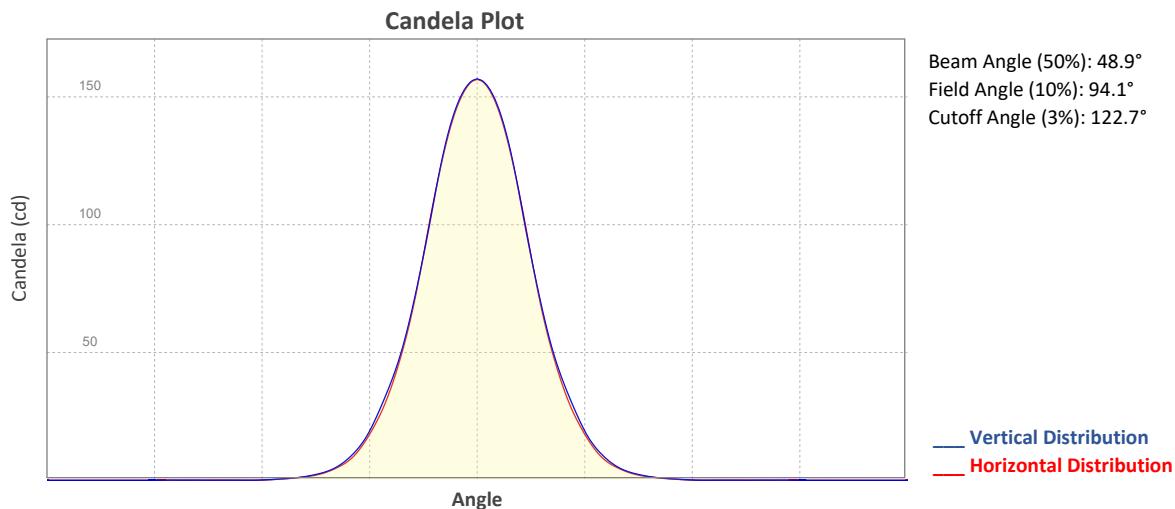


Beam Intensities from 1-20m (3.3-65.6ft)

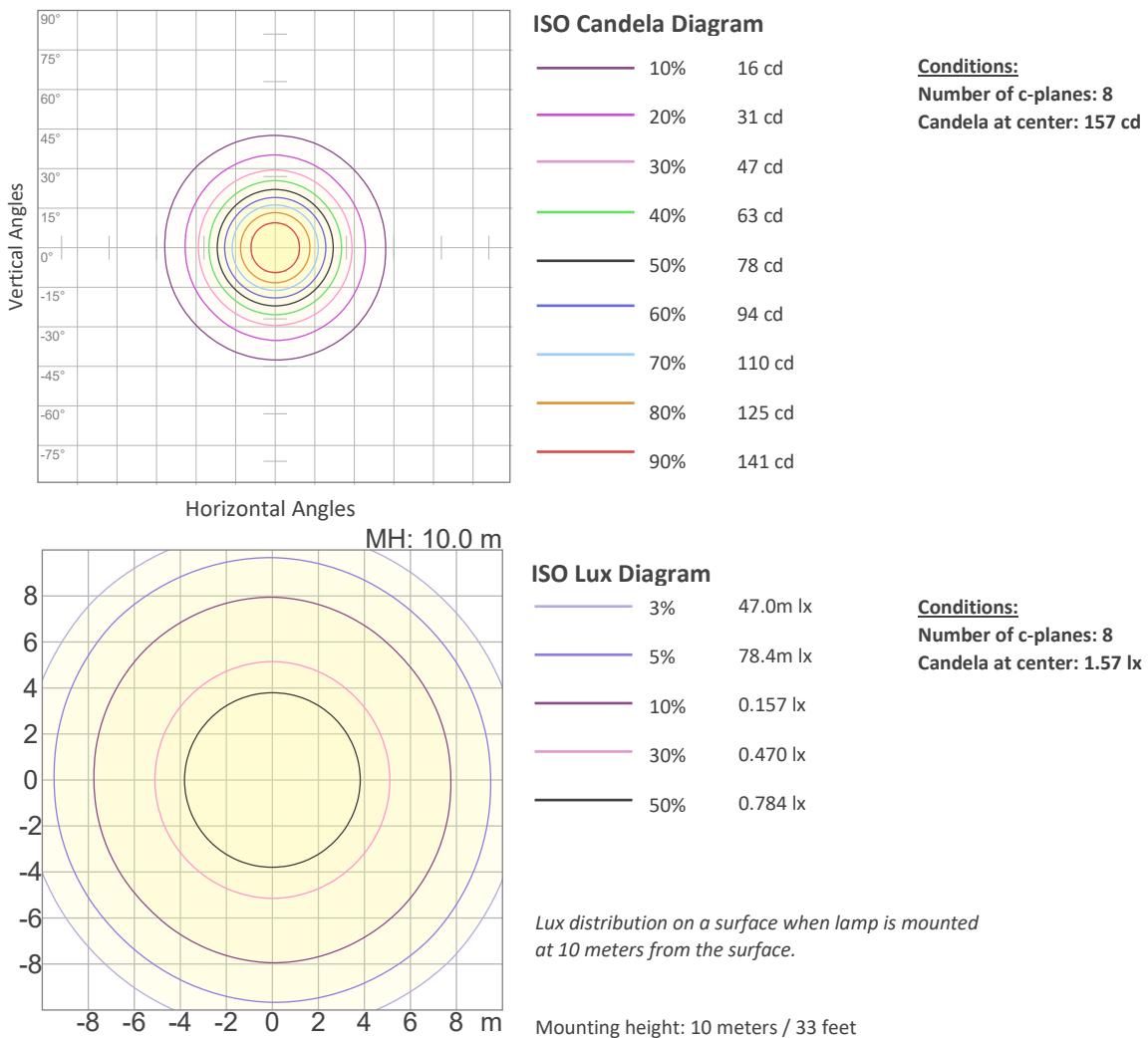
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	157	39	17	10	6	4	3	2	2	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	1	1	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	15	4	2	1	1	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Red Only



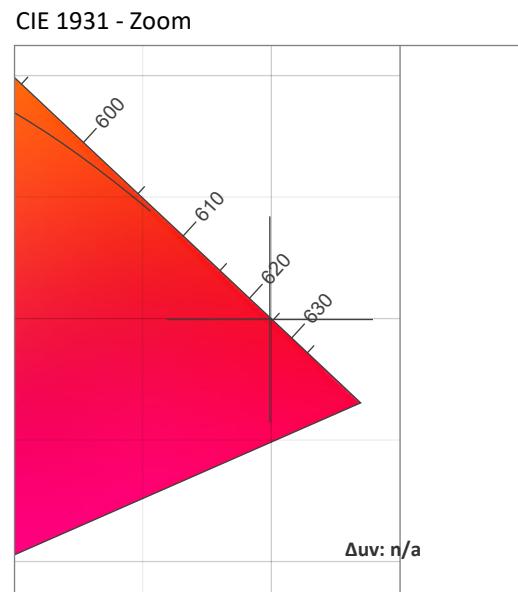
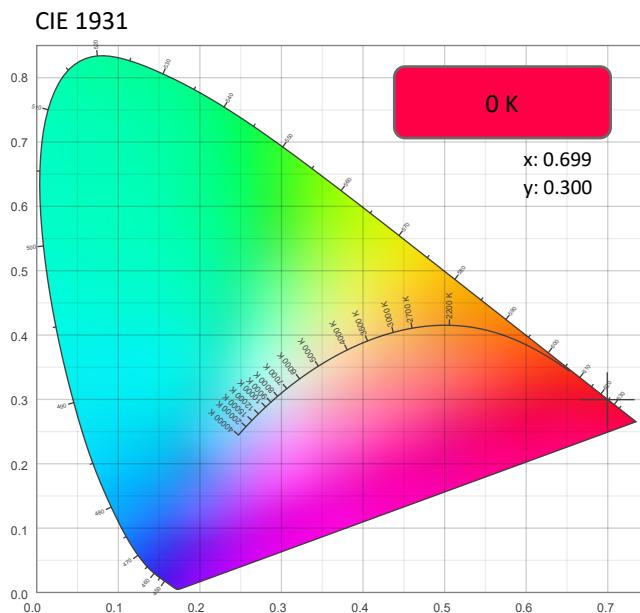
ISO Diagrams



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Red Only

Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.699	0.300

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.300	0.538

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Red Only

TM-30 Details

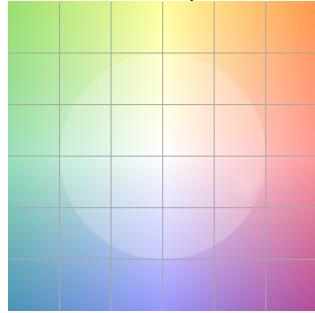
Rf 0.0

Fidelity Index
(Rg)

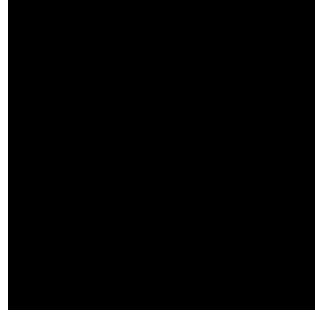
Rg 0.0

Gammut Index (Rg)

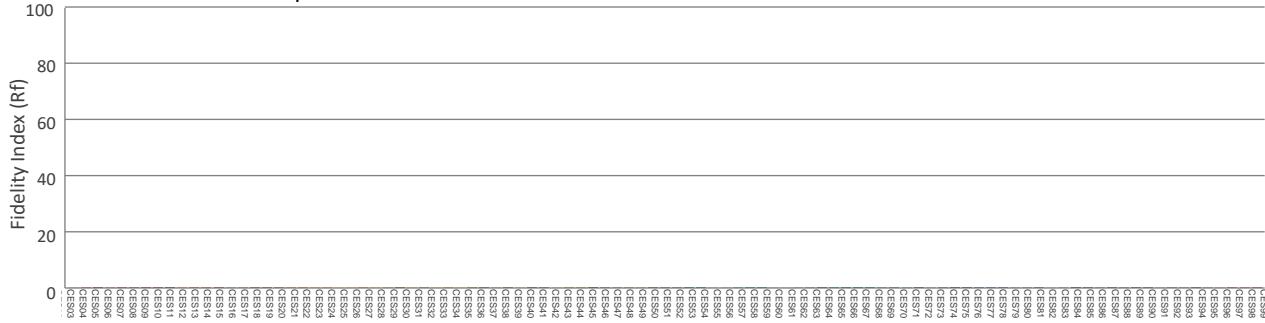
Color Vector Graphic



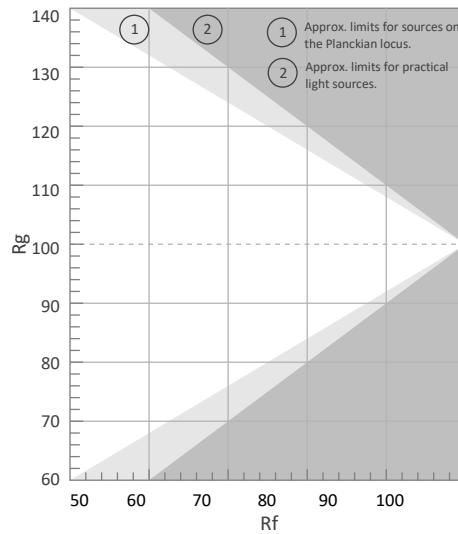
Color Distortion Graphic



Color Evaluation Sample



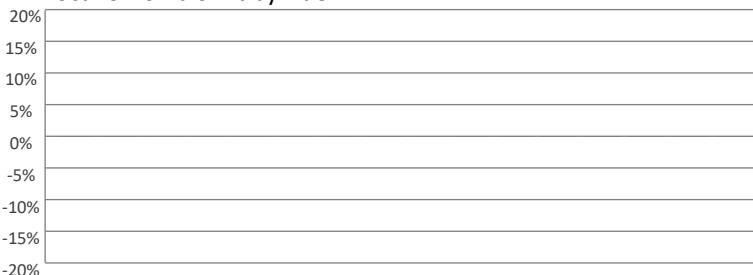
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Green Only

Report Summary

Measurements

Fixture Output: 265 lm
Fixture Peak: 306 cd
Fixture Efficacy: 16 lm/W
Intensity @ 5m: 12 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0

TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 49.1°
Field Angle (10%): 94.6°
Cutoff Angle (3%): 123.6°

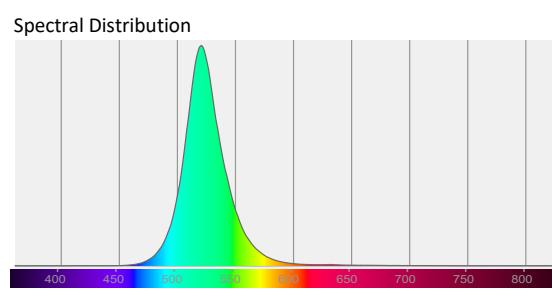
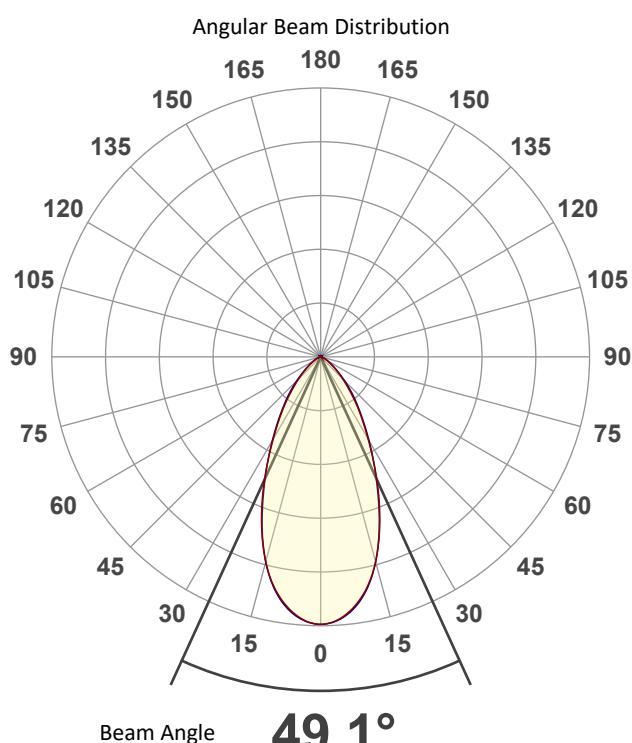
Conditions

AC Supply: 119 V, 60 Hz
Power: 19.06 W
Current: 0.160 A
Power Factor: 0.85



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.170
Y: 0.717



Light Quality

CRI: 0.0

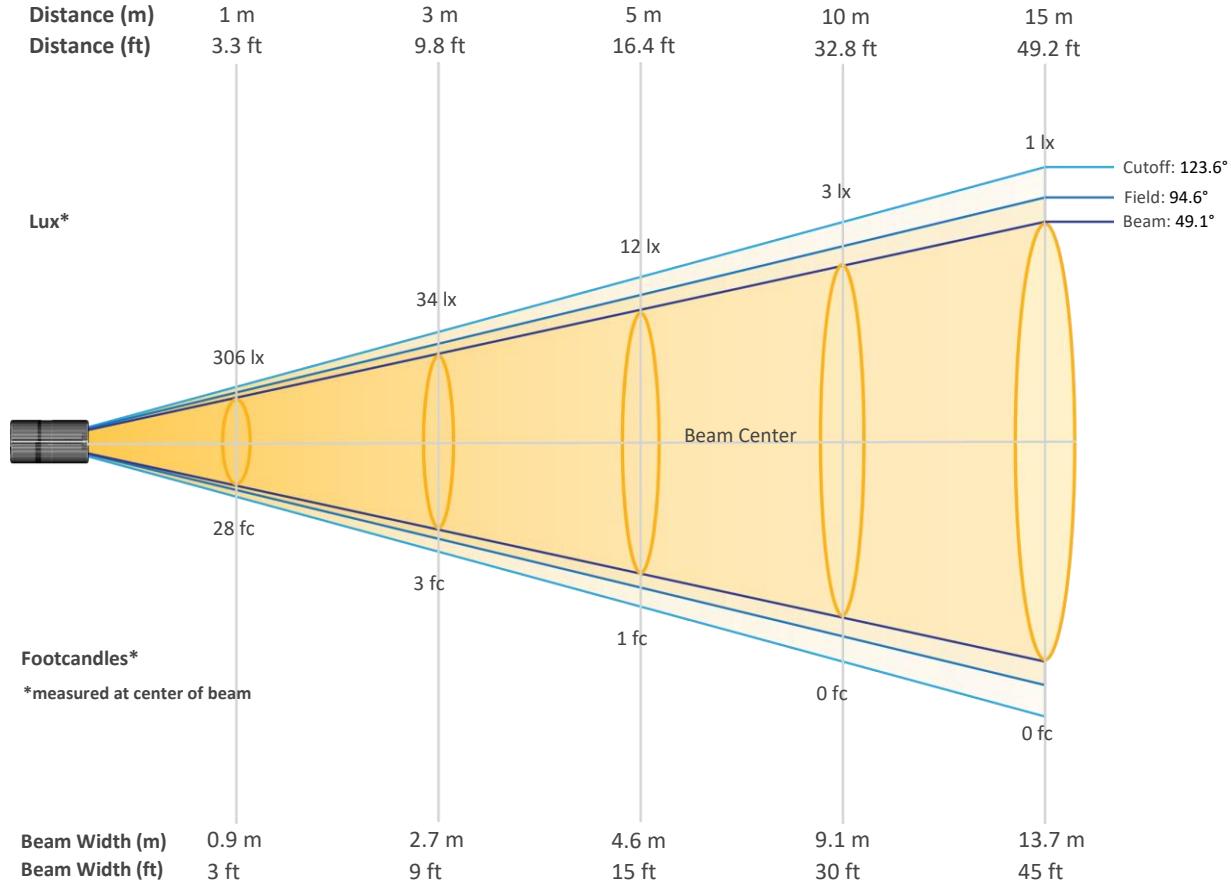
Color Temperature

0 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Green Only

Beam Details

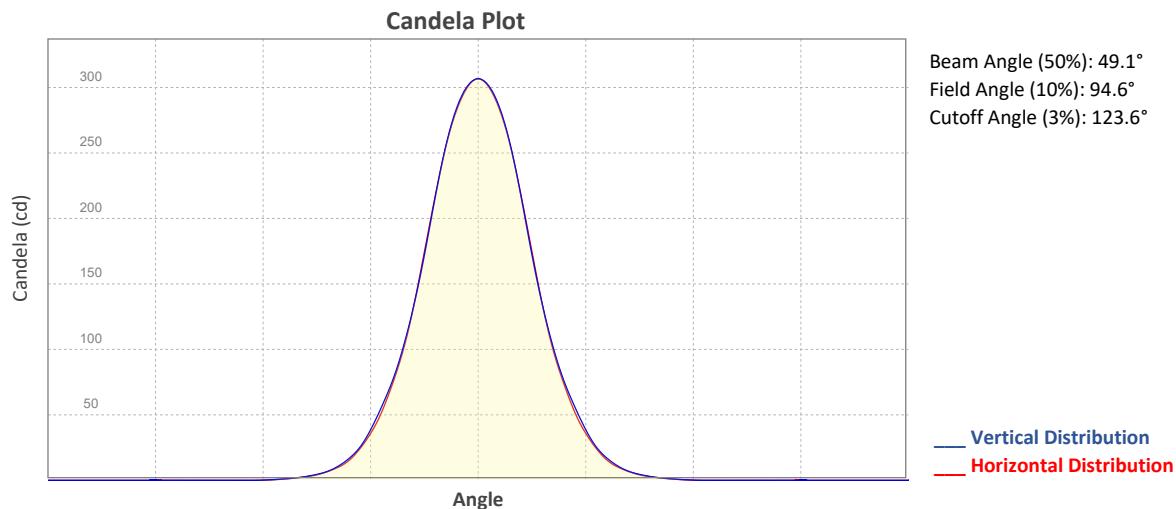


Beam Intensities from 1-20m (3.3-65.6ft)

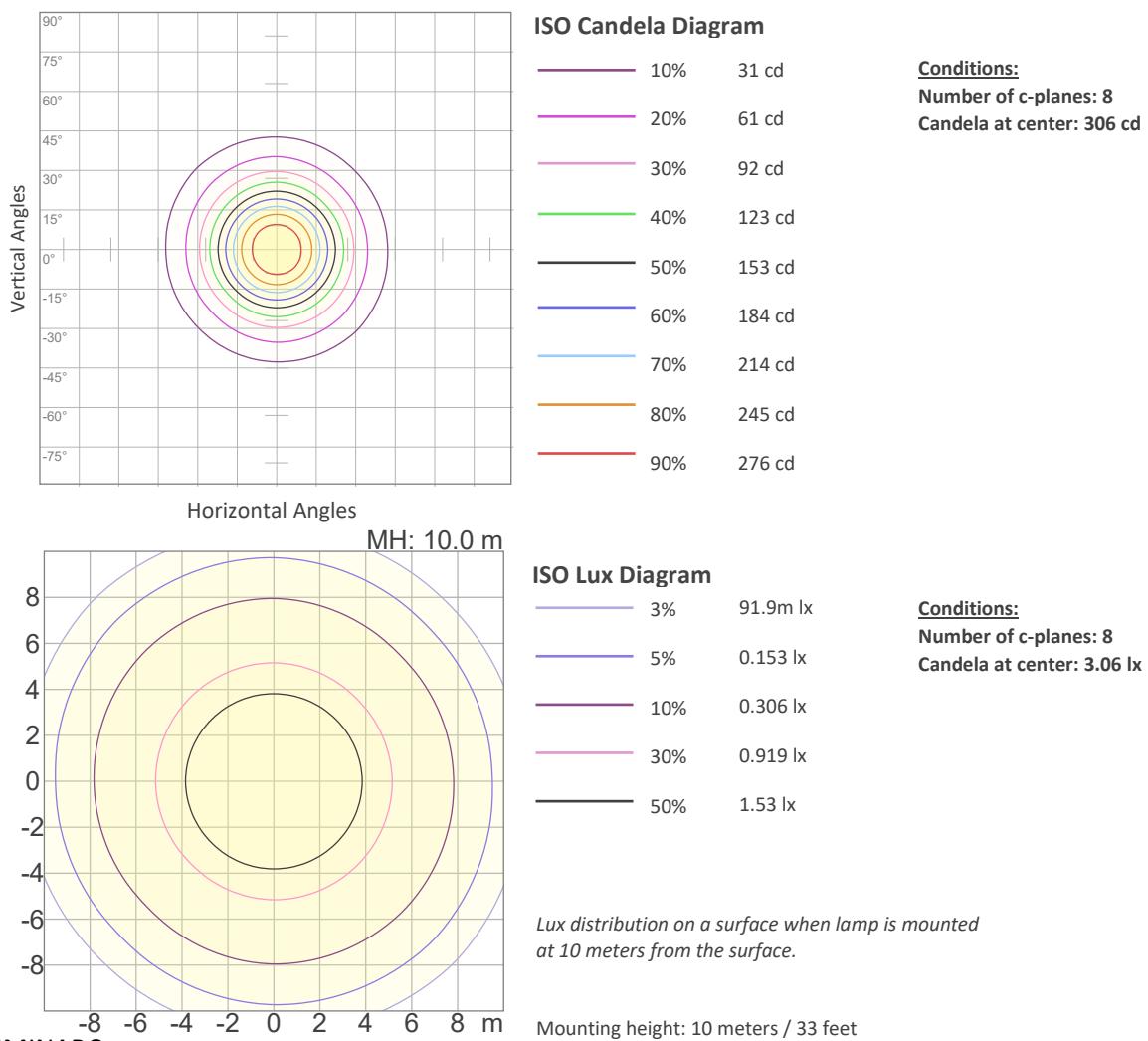
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	306	77	34	19	12	9	6	5	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	2	2	2	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	28	7	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Green Only



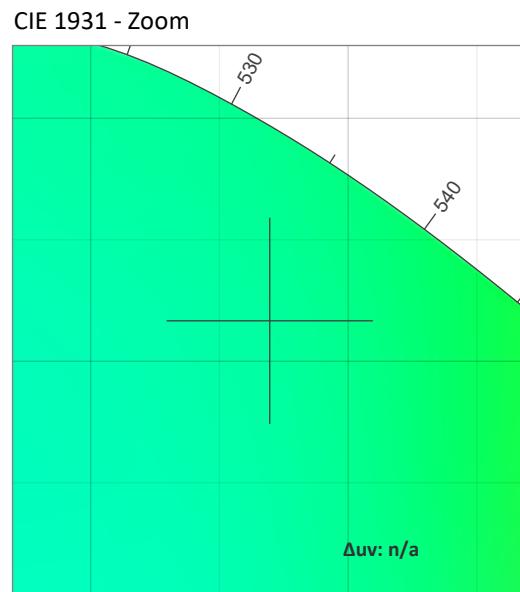
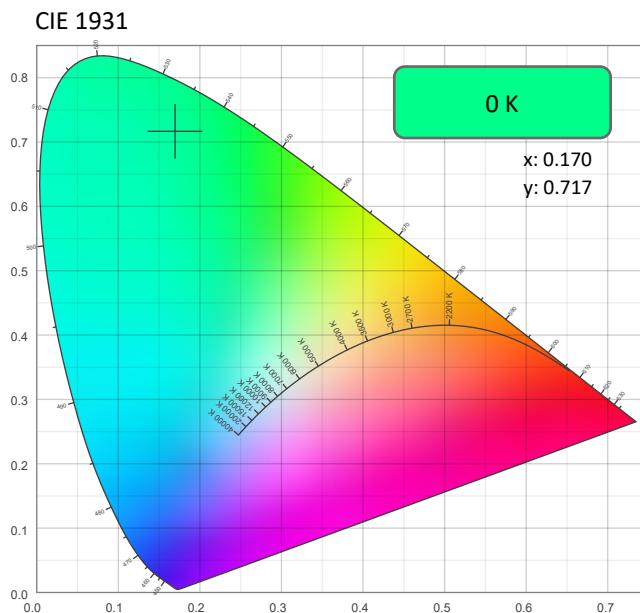
ISO Diagrams



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Green Only

Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.170	0.717

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.717	0.060

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Green Only

TM-30 Details

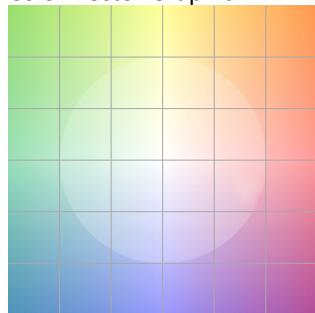
Rf 0.0

Fidelity Index
(Rg)

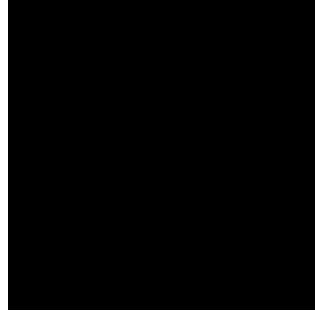
Rg 0.0

Gammut Index (Rg)

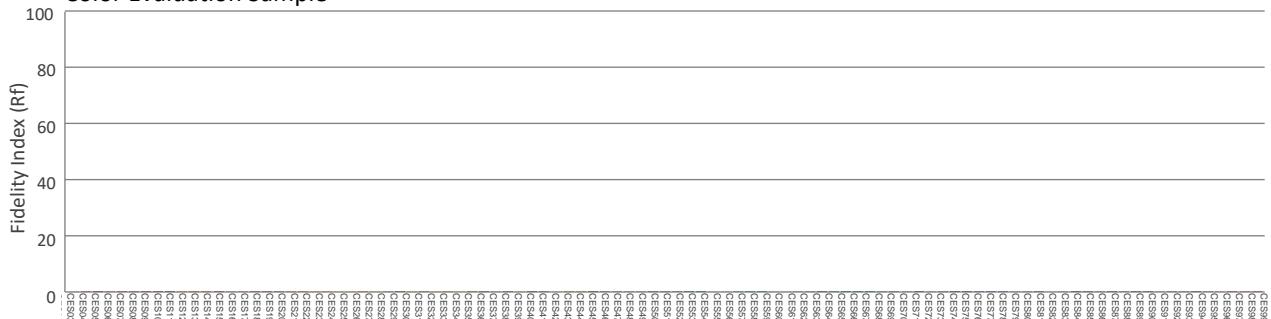
Color Vector Graphic



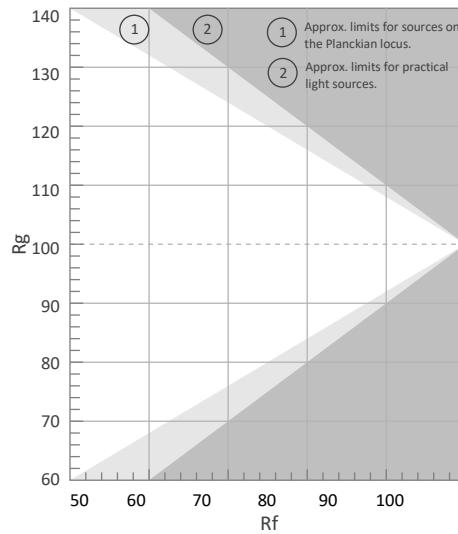
Color Distortion Graphic



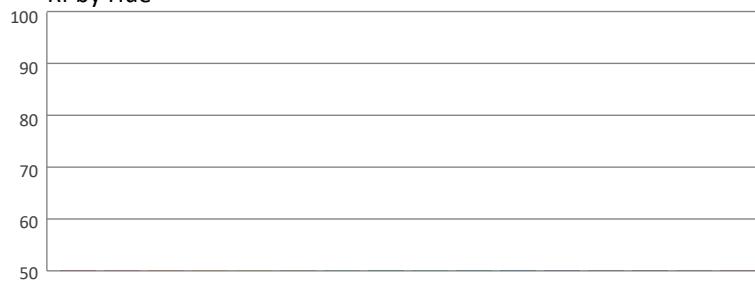
Color Evaluation Sample



Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Blue Only

Report Summary

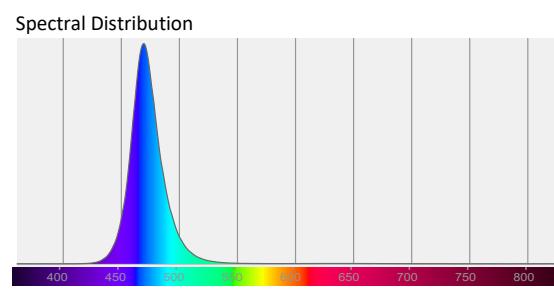
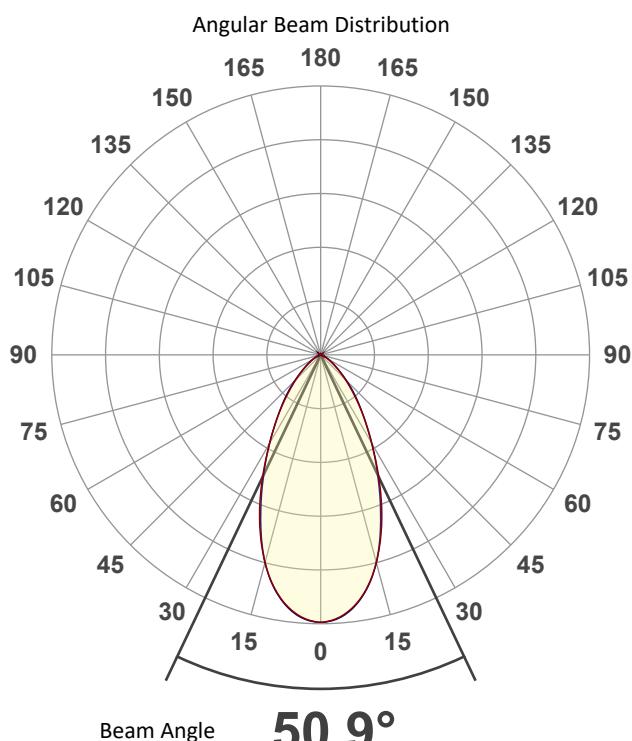
Measurements

Fixture Output: 84.1 lm
Fixture Peak: 92.3 cd
Fixture Efficacy: 5 lm/W
Intensity @ 5m: 4 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 50.9°
Field Angle (10%): 97°
Cutoff Angle (3%): 126°
Conditions
AC Supply: 119 V, 60 Hz
Power: 19.15 W
Current: 0.161 A
Power Factor: 0.85



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Light Quality

CRI: 0.0

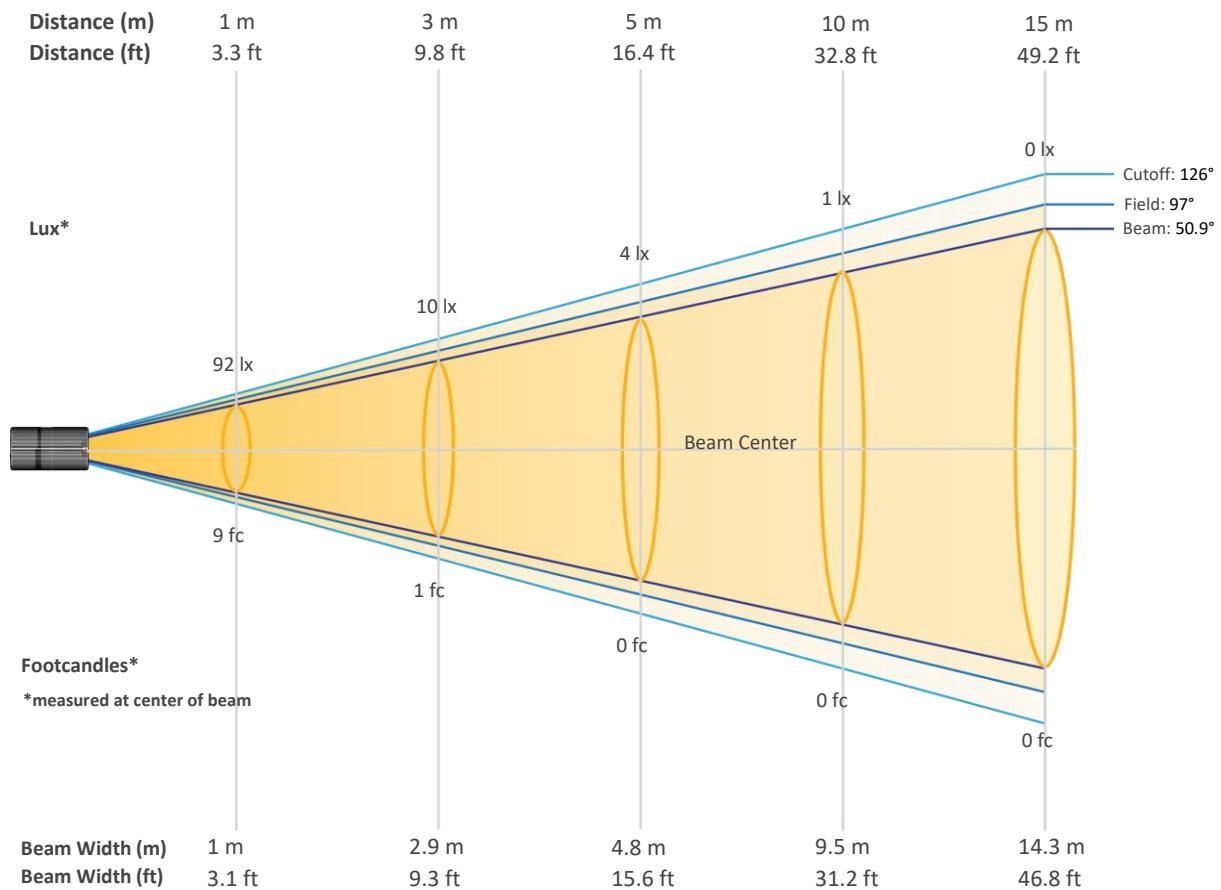
Color Temperature

0 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Blue Only

Beam Details

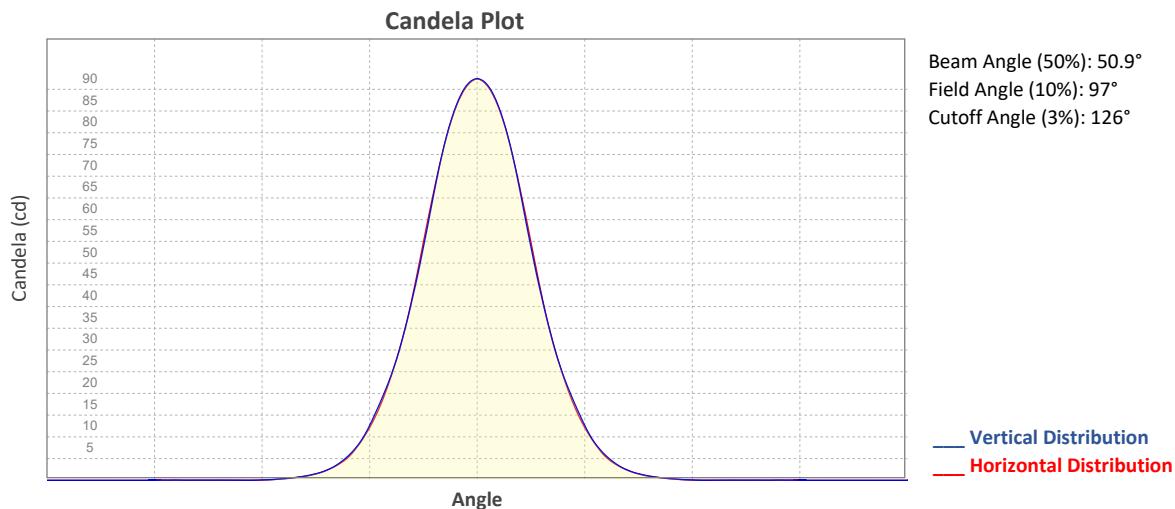


Beam Intensities from 1-20m (3.3-65.6ft)

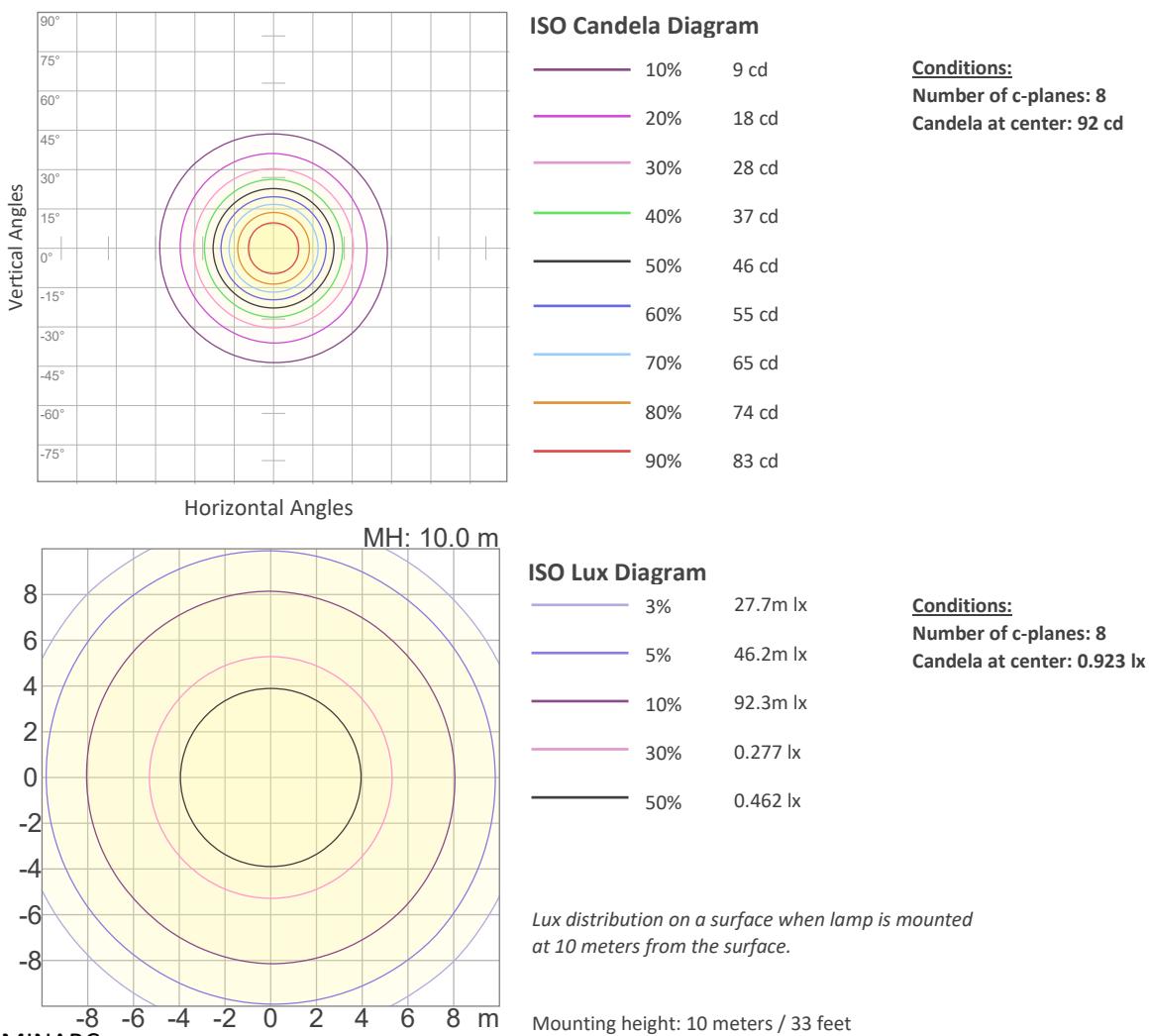
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	92	23	10	6	4	3	2	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	9	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Blue Only



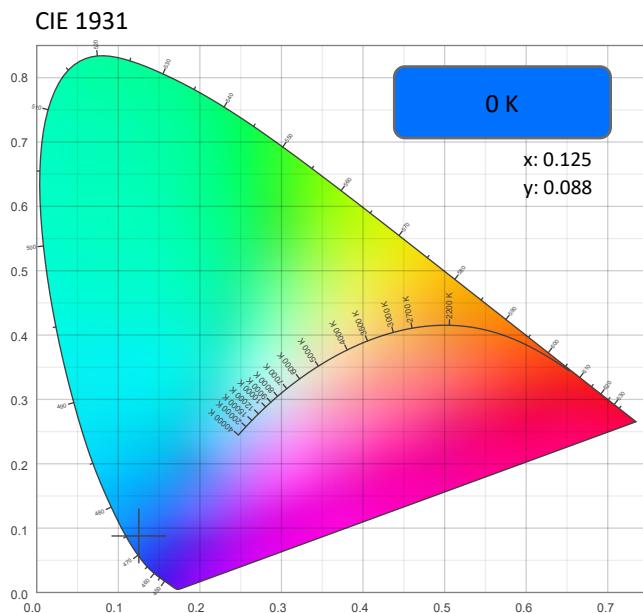
ISO Diagrams



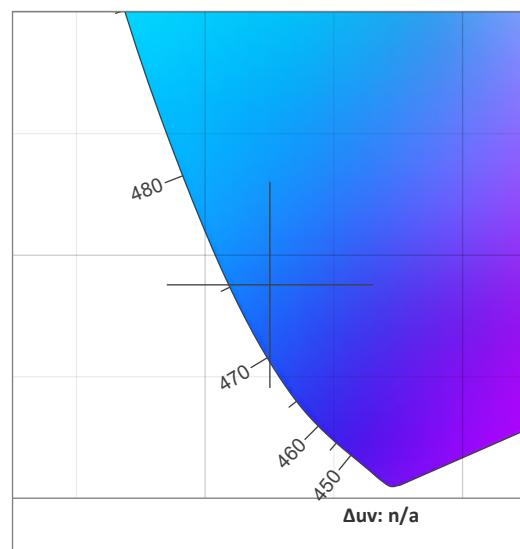
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Blue Only

Chromaticity



CIE 1931 - Zoom



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.125	0.088

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.088	0.132

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Blue Only

TM-30 Details

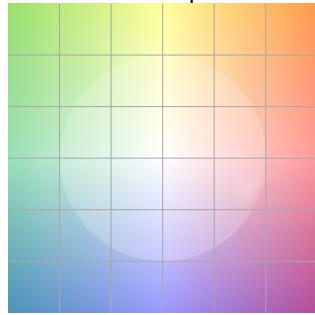
Rf 0.0

Fidelity Index
(Rg)

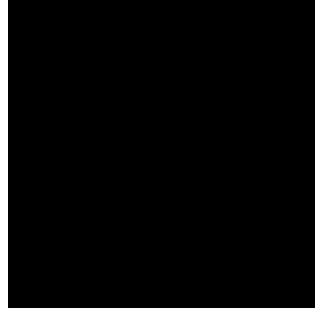
Rg 0.0

Gammut Index (Rg)

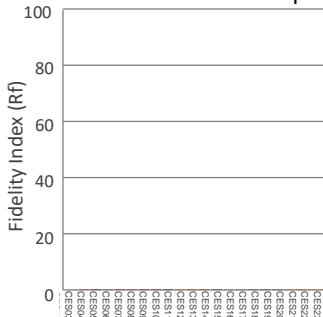
Color Vector Graphic



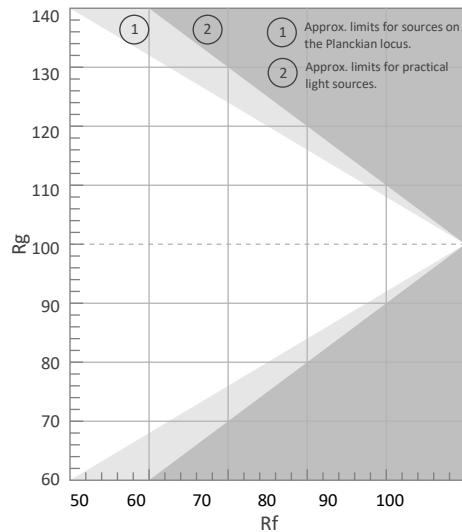
Color Distortion Graphic



Color Evaluation Sample



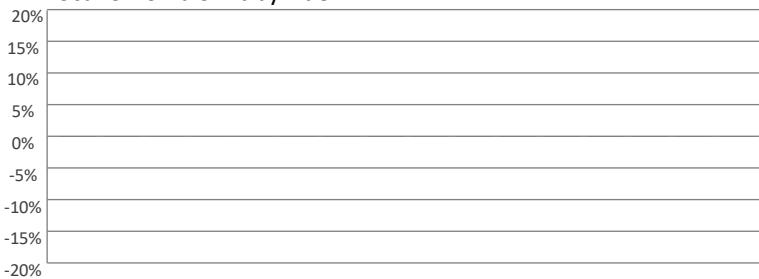
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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CS3
CS2
CS1

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Warm White Only

Report Summary

Measurements

Fixture Output: 195 lm
Fixture Peak: 232 cd
Fixture Efficacy: 12 lm/W
Intensity @ 5m: 9 lux
Color Temperature: 3053 K
CRI: 93.1 CRI R9 Value: 71.6
CQS: 90.9

TLCI: 92
TM-30 Rf: 91.6
TM-30 Rg: 102.3
Beam Angle (50%): 48°
Field Angle (10%): 93.6°
Cutoff Angle (3%): 122.8°

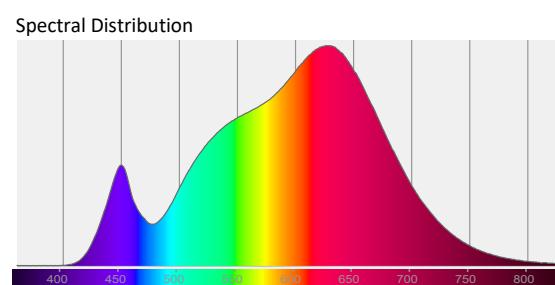
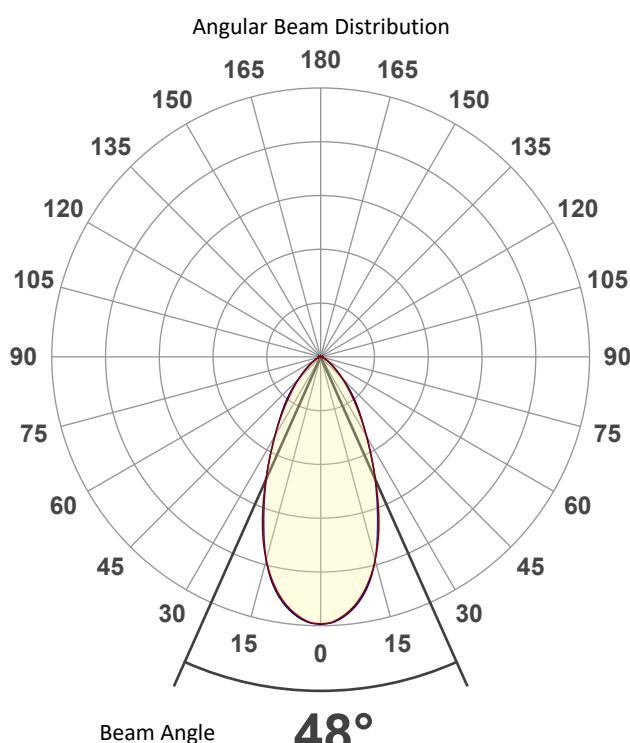
Conditions

AC Supply: 119 V, 60 Hz
Power: 18.55 W
Current: 0.156 A
Power Factor: 0.85



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.434
Y: 0.403

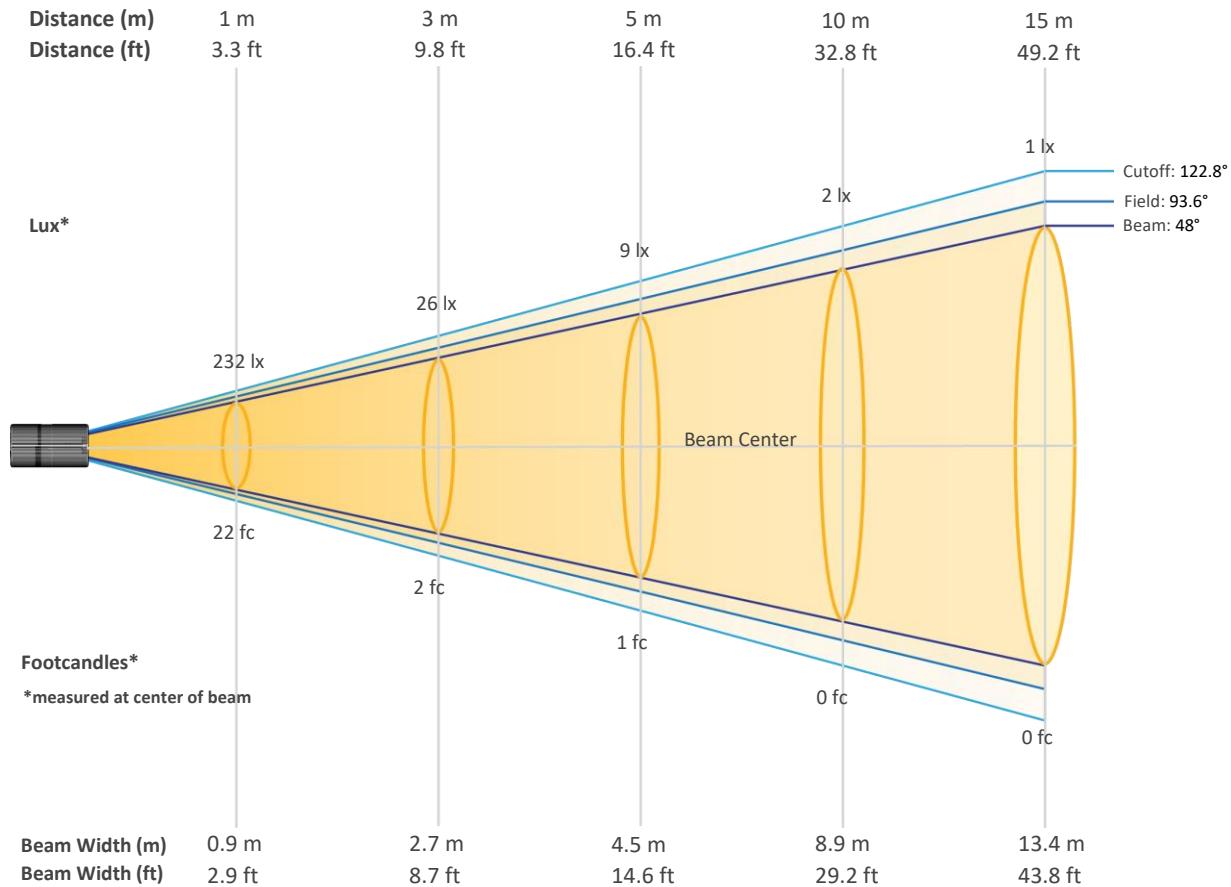
Light Quality
CRI: 93.1

Color Temperature
3053 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Warm White Only

Beam Details

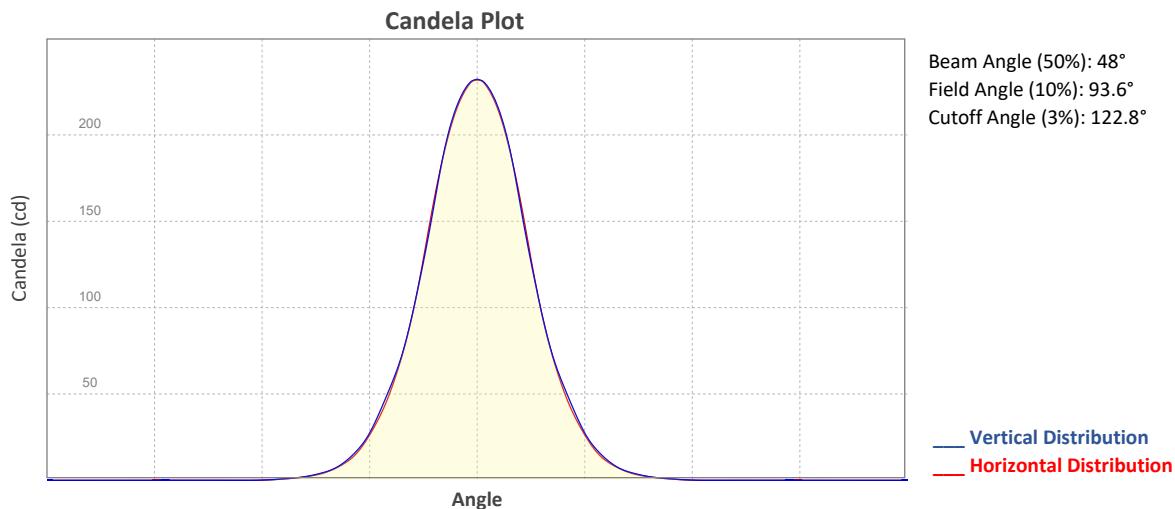


Beam Intensities from 1-20m (3.3-65.6ft)

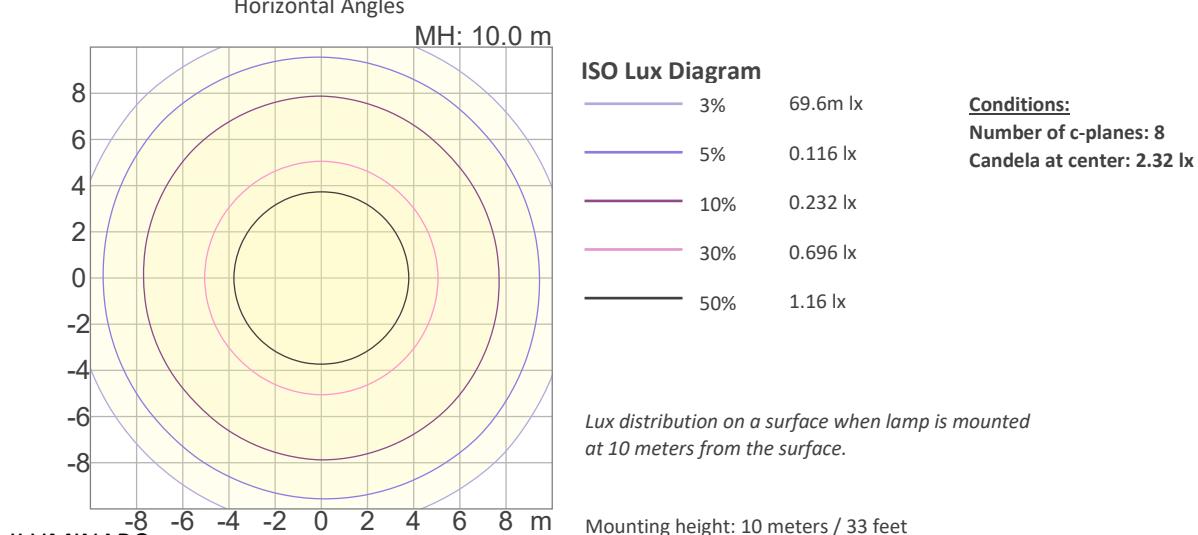
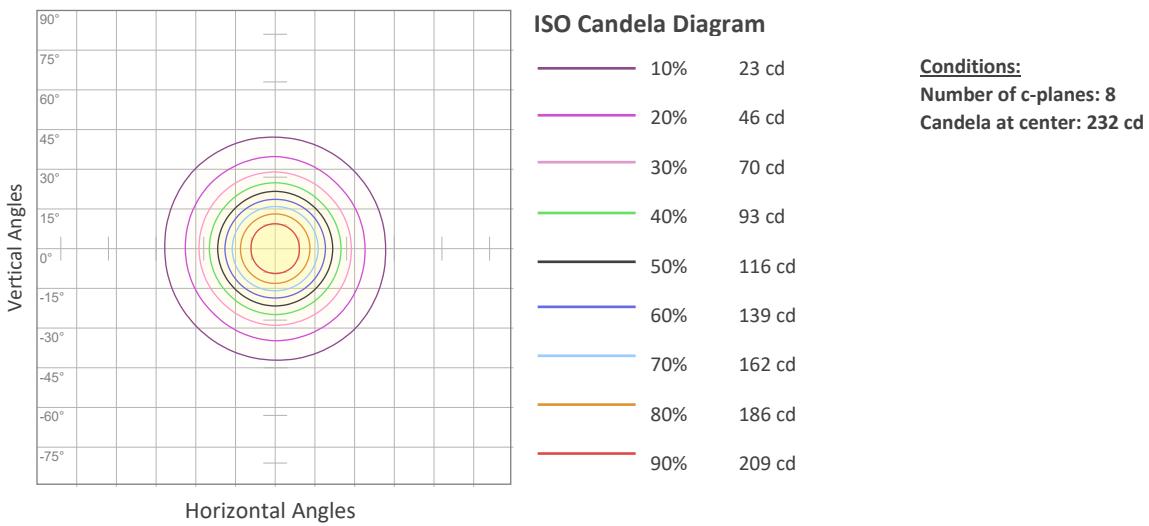
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	232	58	26	14	9	6	5	4	3	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	1	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	22	5	2	1	1	1	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Warm White Only



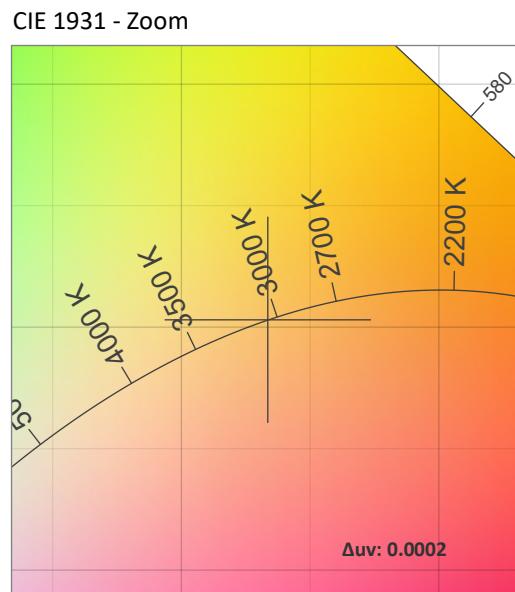
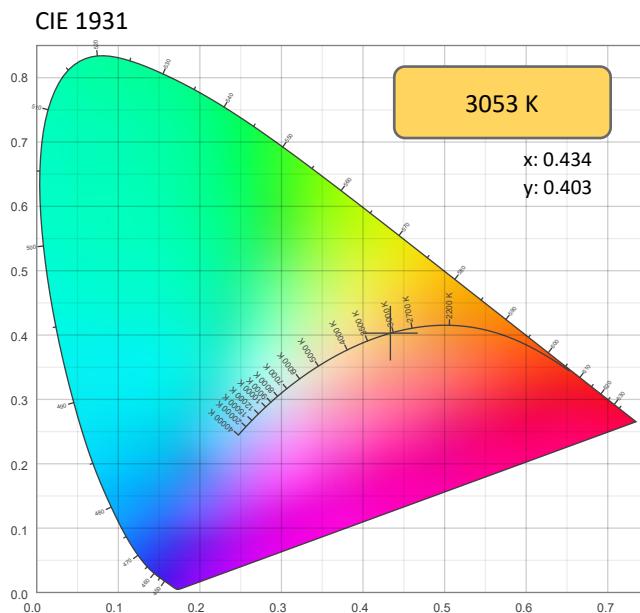
ISO Diagrams



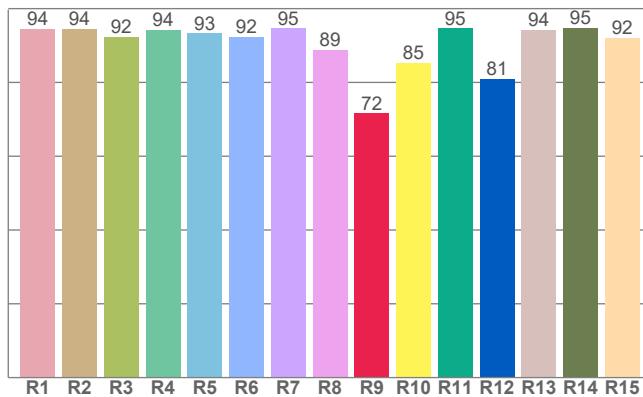
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - Warm White Only

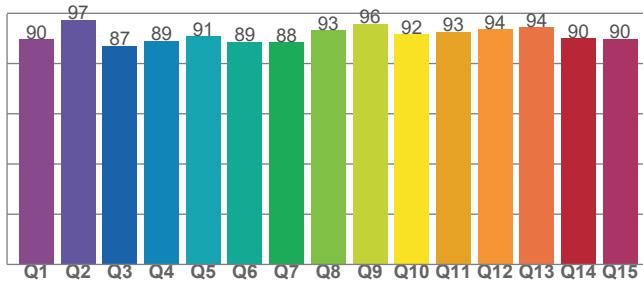
Chromaticity



CRI: 93.1 (R1-R8)



CQS: 90.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3053 K	0.434	0.403

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0002	0.403	0.249

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.1	71.6	90.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
92	91.6	102.3

Photometric & Chromaticity Report

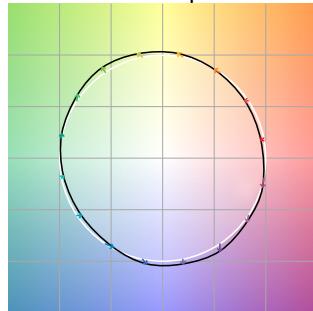
Logic AR111 Downlight S: Medium Filter Lens - Warm White Only

TM-30 Details

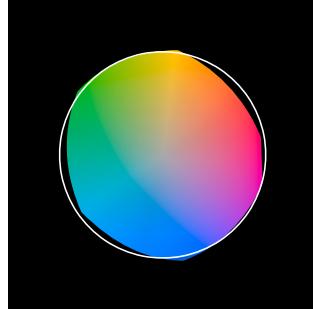
Rf 91.6
Fidelity Index
(R_f)

Rg 102.3
Gammut Index (R_g)

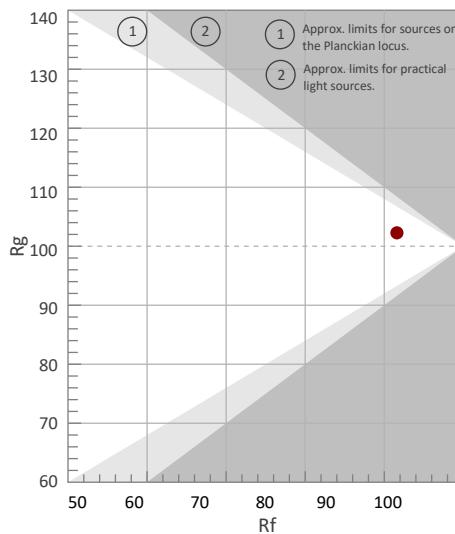
Color Vector Graphic



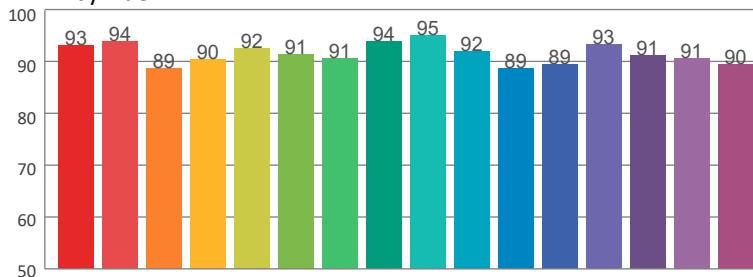
Color Distortion Graphic



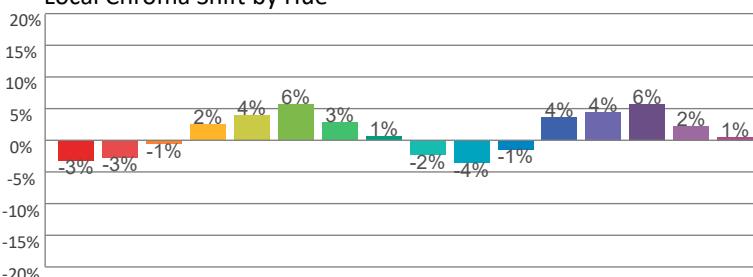
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-2%
2	94	-3%	2%
3	89	-1%	6%
4	90	2%	6%
5	92	4%	4%
6	91	6%	0%
7	91	3%	-5%
8	94	1%	-4%
9	95	-2%	-2%
10	92	-4%	3%
11	89	-1%	8%
12	89	4%	5%
13	93	4%	0%
14	91	6%	-4%
15	91	2%	-6%
16	90	1%	-8%



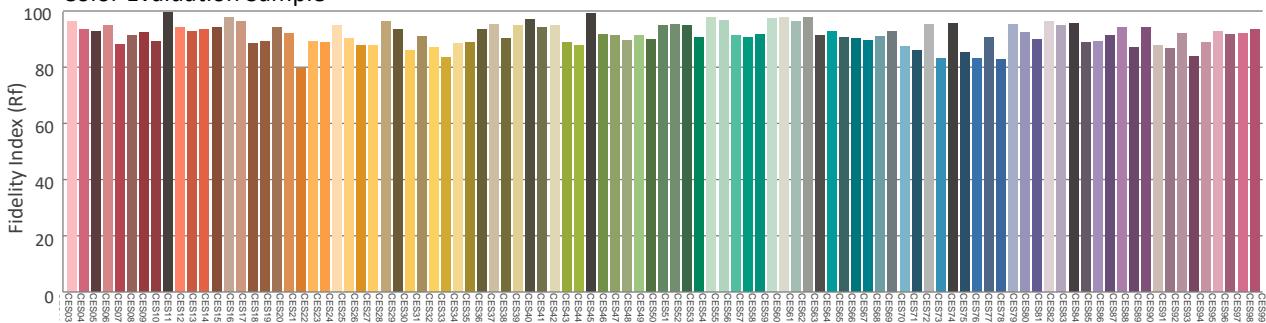
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 1800K

Report Summary

Measurements

Fixture Output: 277 lm
Fixture Peak: 330 cd
Fixture Efficacy: 15 lm/W
Intensity @ 5m: 13 lux
Color Temperature: 1854 K
CRI: 70.4 CRI R9 Value: 38.2
CQS: 65.2

TLCI: 47

TM-30 Rf: 73.2

TM-30 Rg: 125.4

Beam Angle (50%): 48.2°

Field Angle (10%): 93.9°

Cutoff Angle (3%): 122.6°

Conditions

AC Supply: 119 V, 60 Hz

Power: 20.74 W

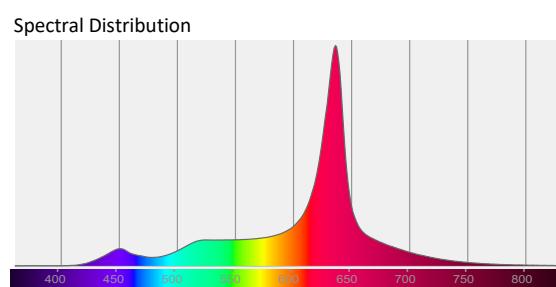
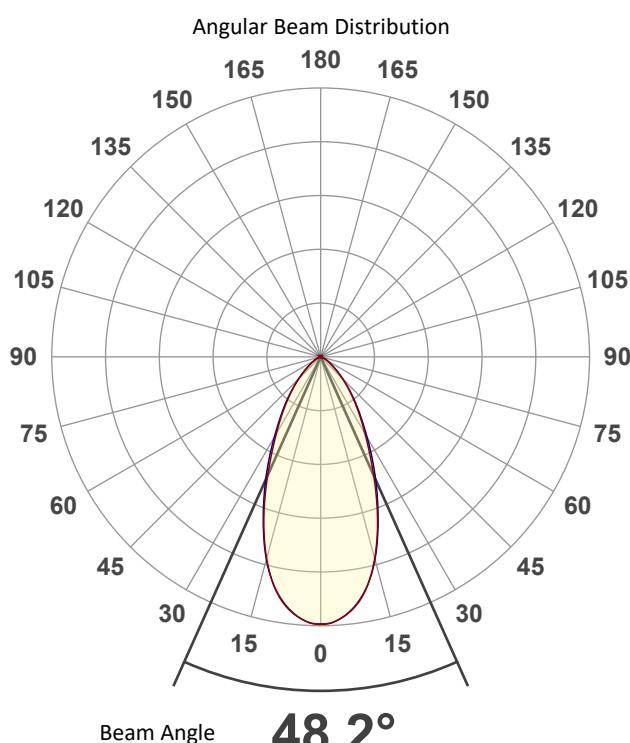
Current: 0.175 A

Power Factor: 0.88



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.514
Y: 0.373

Light Quality

CRI: 70.4

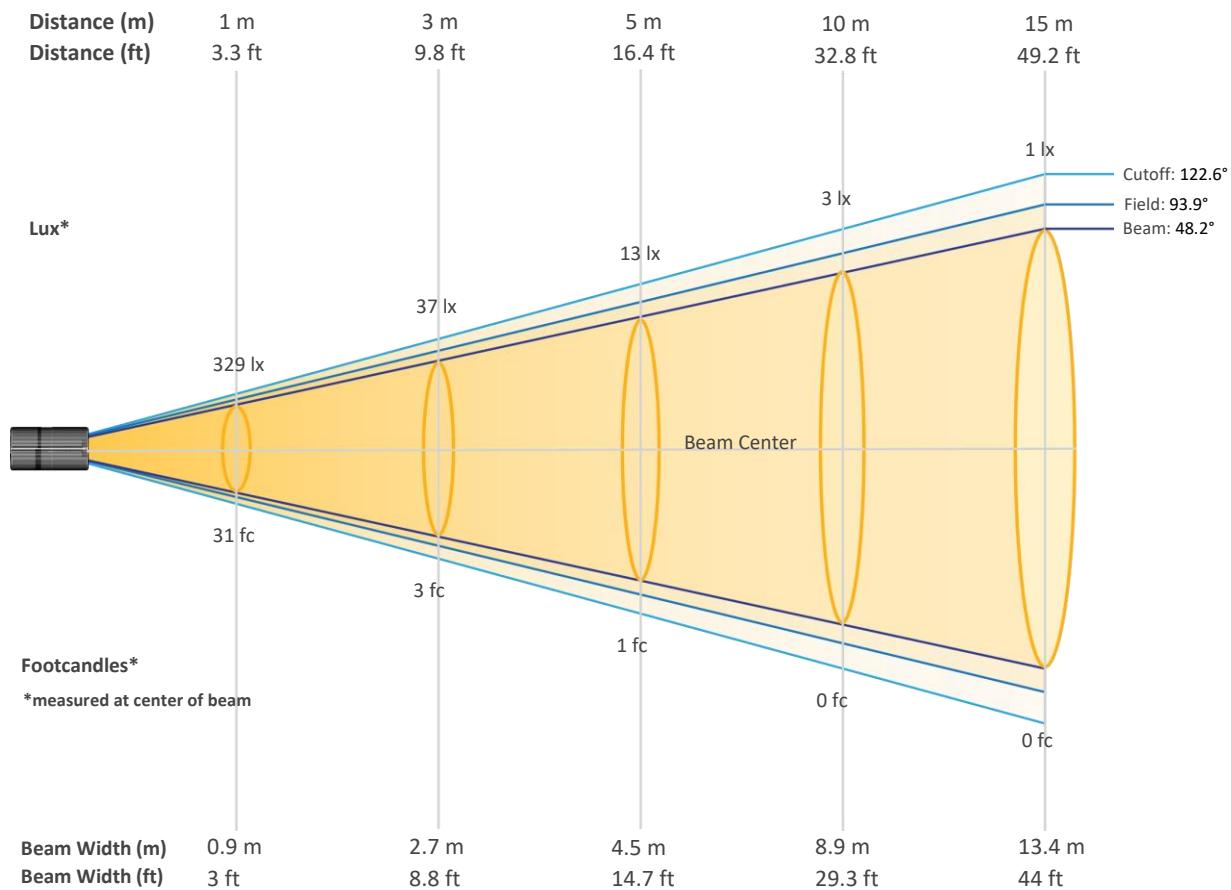
Color Temperature

1854 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 1800K

Beam Details

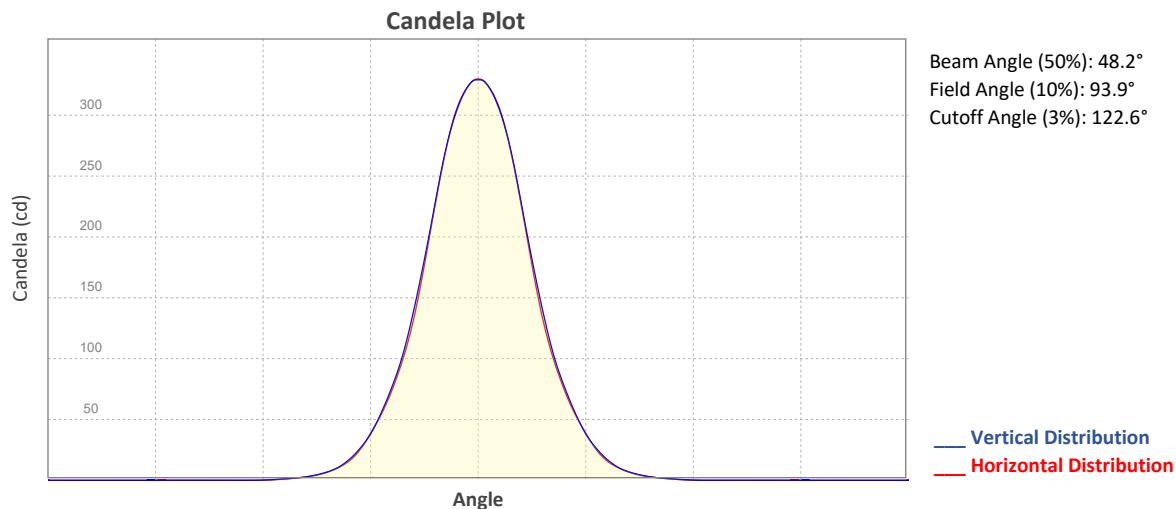


Beam Intensities from 1-20m (3.3-65.6ft)

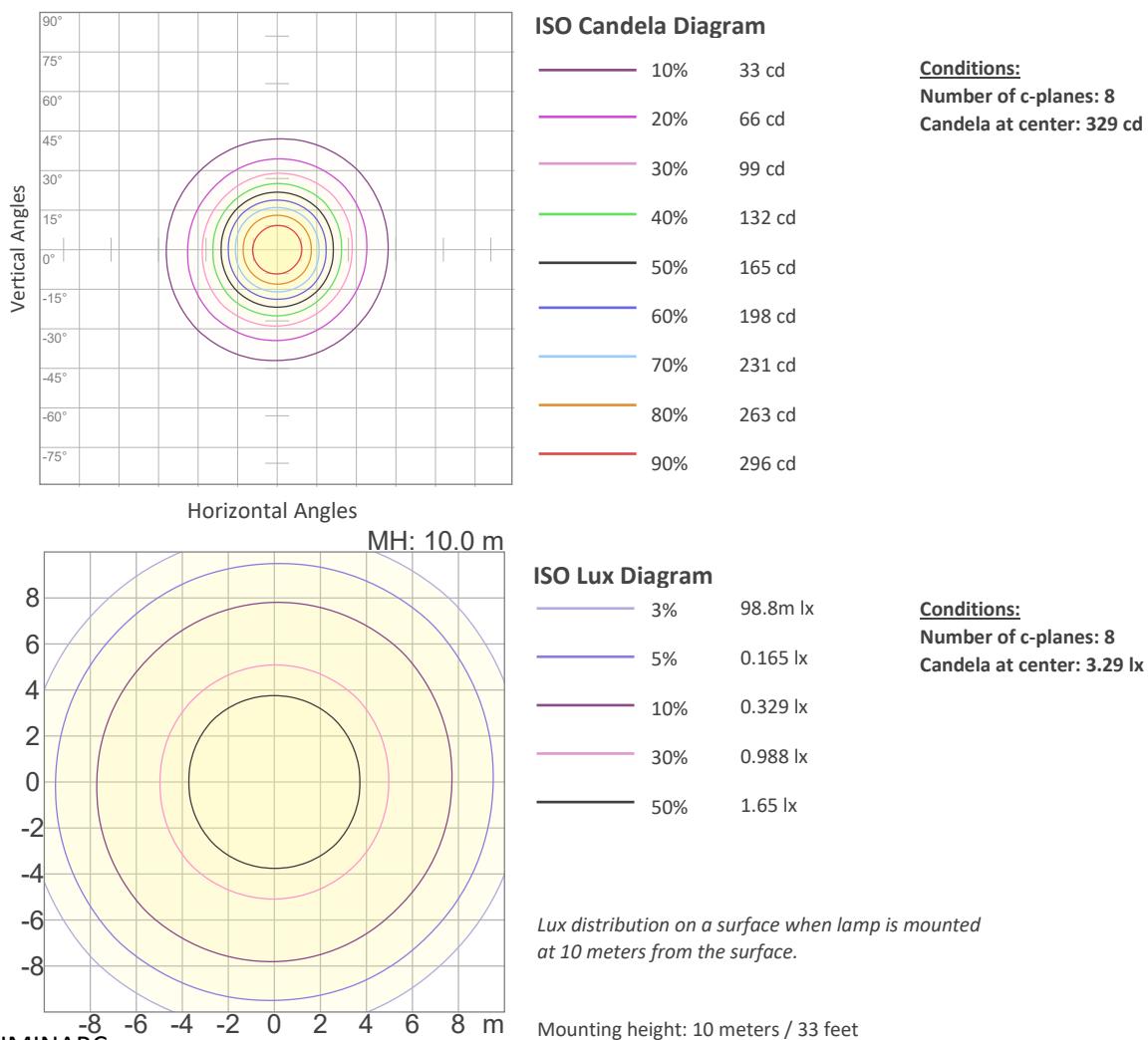
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	329	82	37	21	13	9	7	5	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	2	2	2	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	31	8	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 1800K



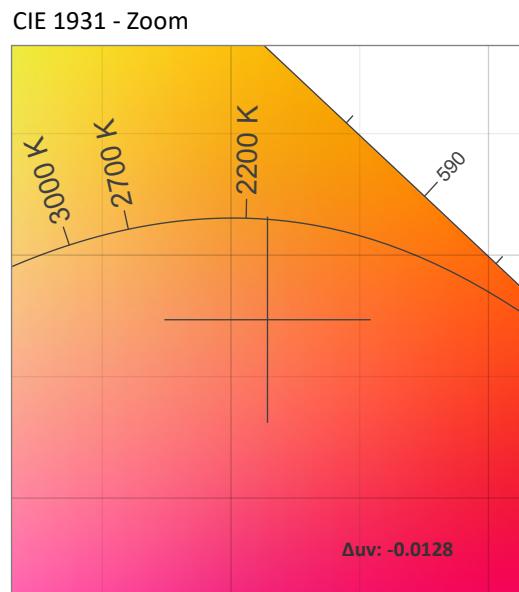
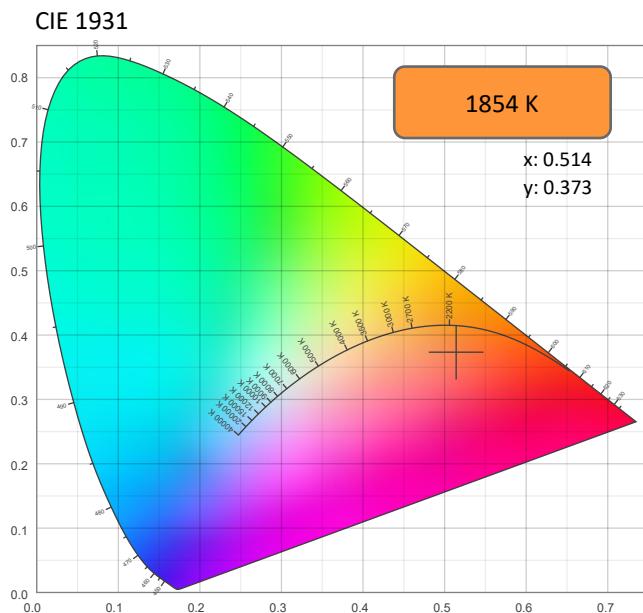
ISO Diagrams



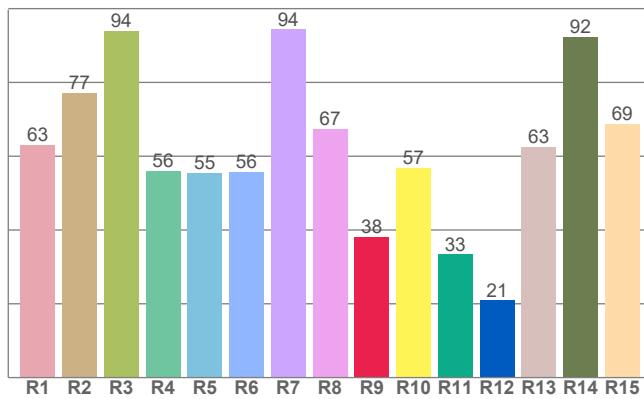
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 1800K

Chromaticity



CRI: 70.4 (R1-R8)

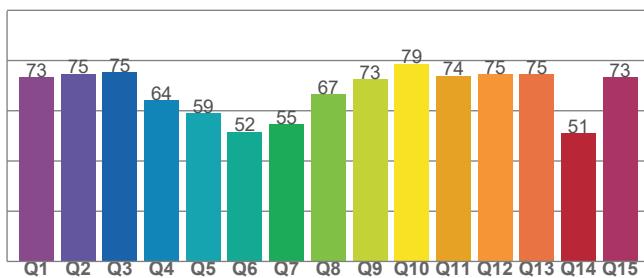


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
1854 K	0.514	0.373

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0128	0.373	0.319

CQS: 65.2



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
70.4	38.2	65.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
47	73.2	125.4

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 1800K

TM-30 Details

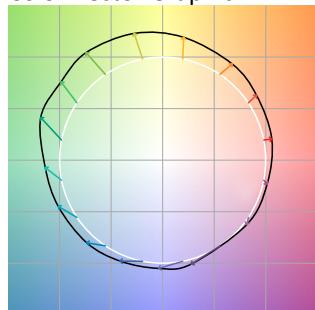
Rf 73.2

Fidelity Index
(Rg)

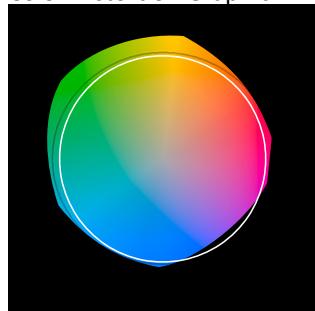
Rg 125.4

Gammut Index (Rg)

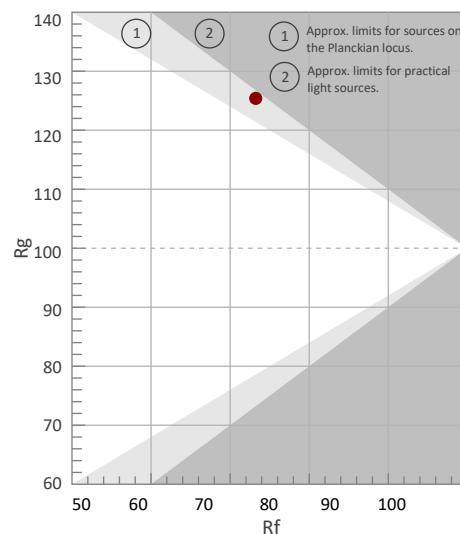
Color Vector Graphic



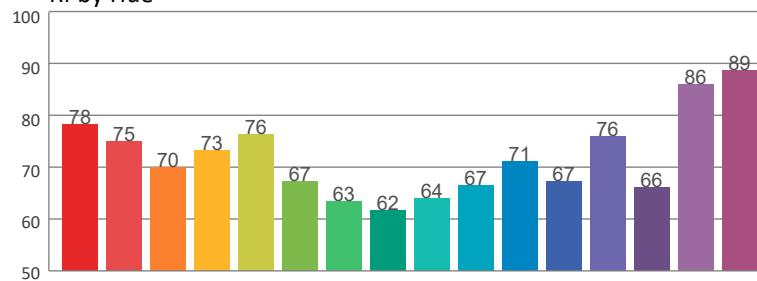
Color Distortion Graphic



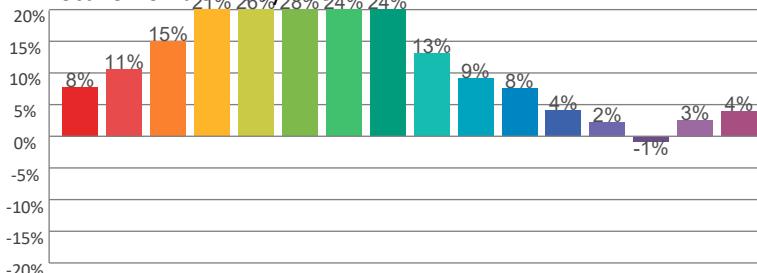
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	78	8%	-1%
2	75	11%	2%
3	70	15%	-4%
4	73	21%	3%
5	76	26%	3%
6	67	28%	4%
7	63	24%	-8%
8	62	24%	-18%
9	64	13%	-15%
10	67	9%	-19%
11	71	8%	-17%
12	67	4%	-21%
13	76	2%	-24%
14	66	-1%	-33%
15	86	3%	-7%
16	89	4%	-3%



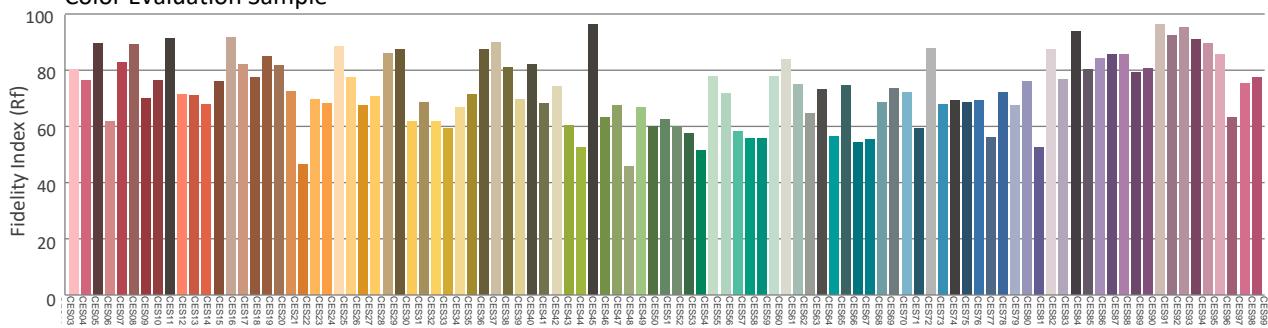
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 2200K

Report Summary

Measurements

Fixture Output: 276 lm
Fixture Peak: 328 cd
Fixture Efficacy: 15 lm/W
Intensity @ 5m: 13 lux
Color Temperature: 2273 K
CRI: 69.7 CRI R9 Value: 19.6
CQS: 79.5

TLCI: 58
TM-30 Rf: 79.9
TM-30 Rg: 116.8
Beam Angle (50%): 48.2°
Field Angle (10%): 93.9°
Cutoff Angle (3%): 122.6°

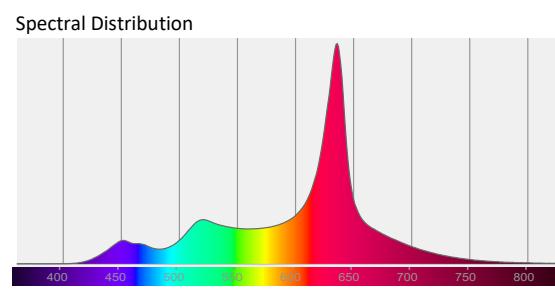
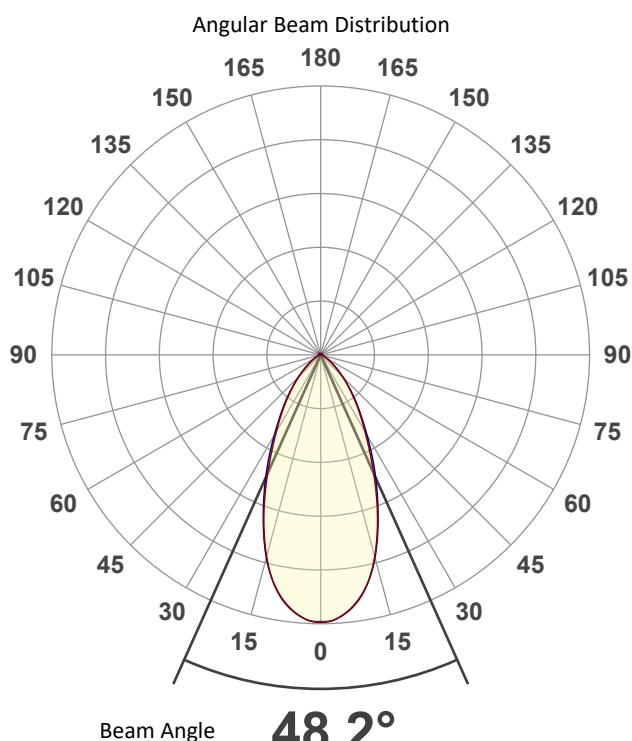
Conditions

AC Supply: 119 V, 60 Hz
Power: 20.54 W
Current: 0.172 A
Power Factor: 0.87



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.478
Y: 0.384

Light Quality

CRI: 69.7

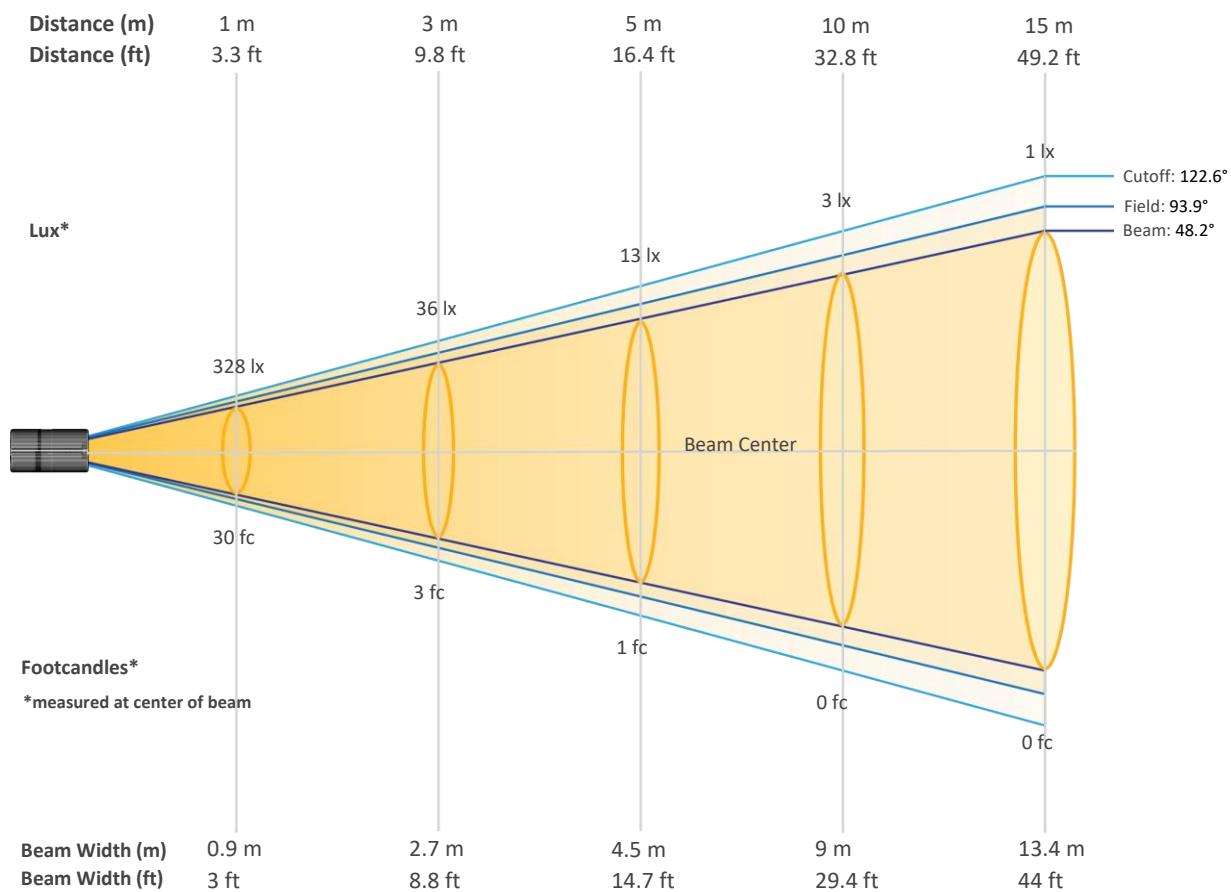
Color Temperature

2273 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 2200K

Beam Details

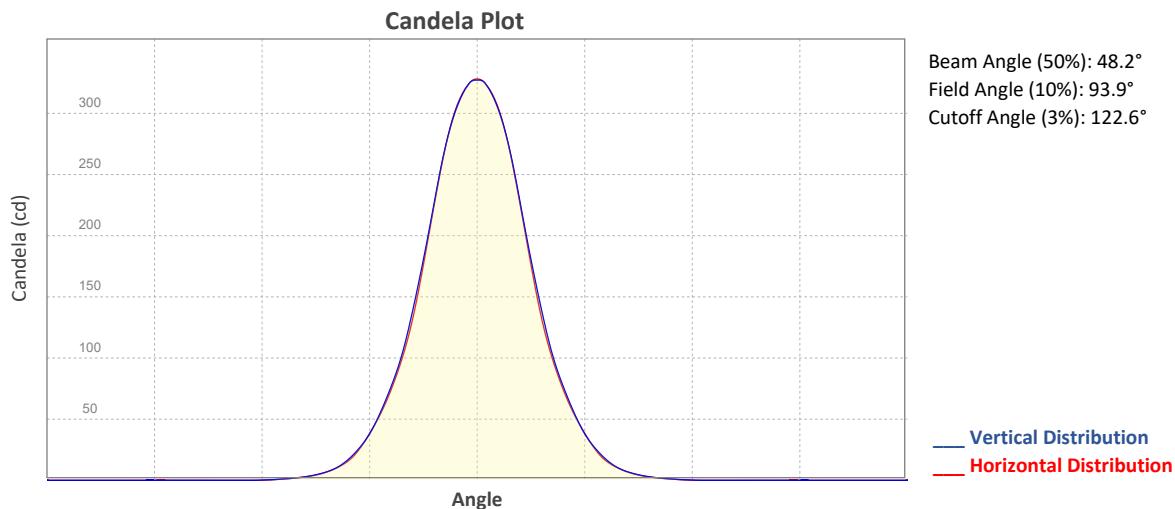


Beam Intensities from 1-20m (3.3-65.6ft)

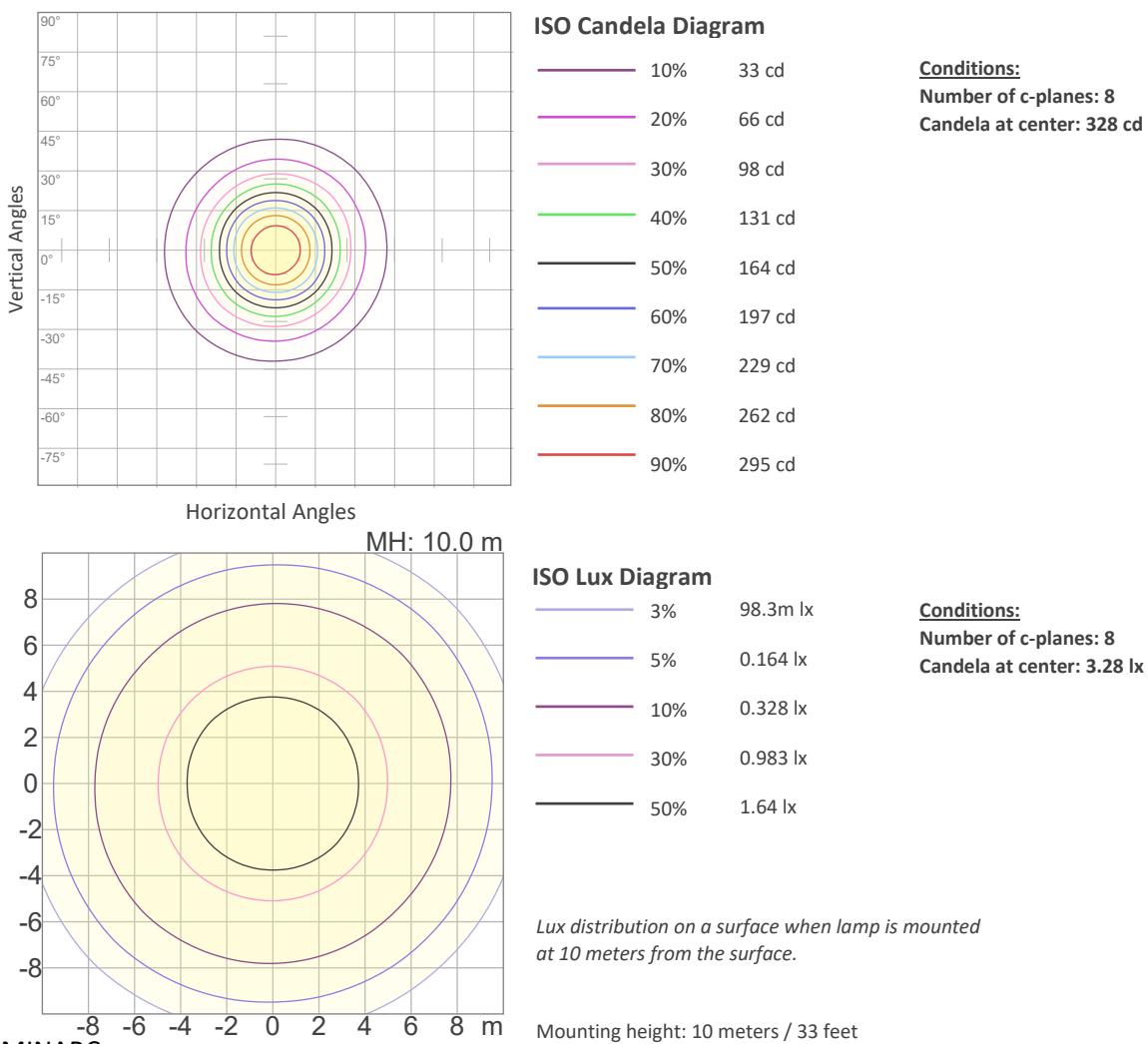
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	328	82	36	20	13	9	7	5	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	2	2	2	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	30	8	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 2200K



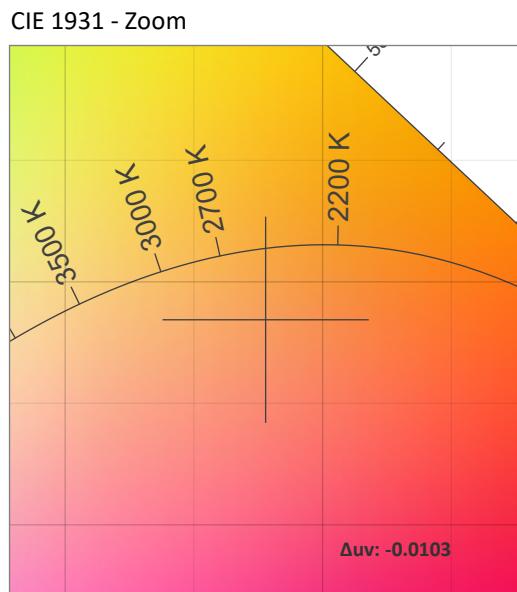
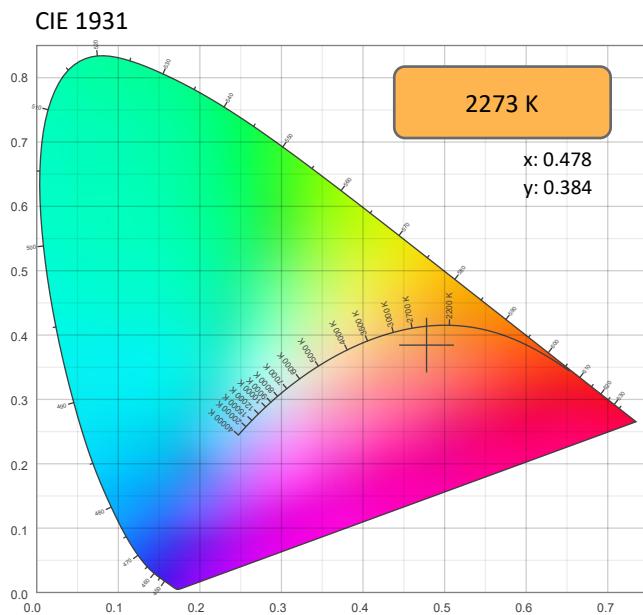
ISO Diagrams



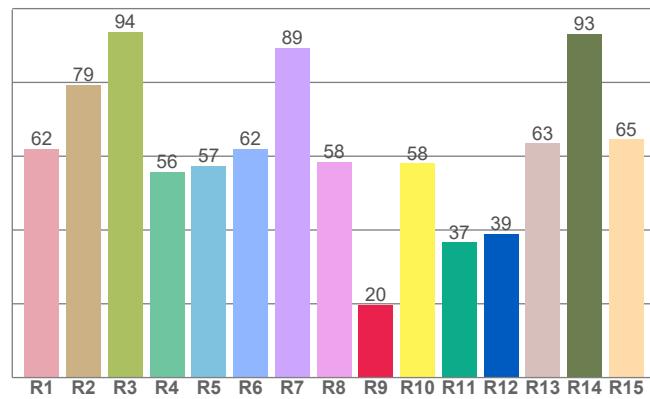
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 2200K

Chromaticity



CRI: 69.7 (R1-R8)

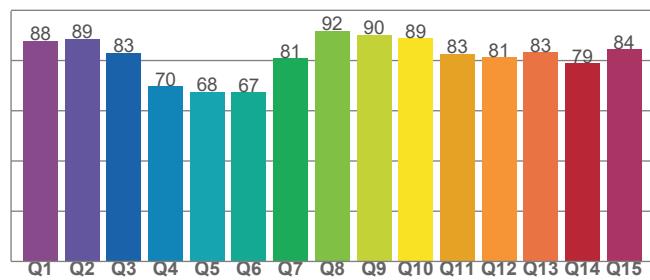


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2273 K	0.478	0.384

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0103	0.384	0.287

CQS: 79.5



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.7	19.6	79.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
58	79.9	116.8

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 2200K

TM-30 Details

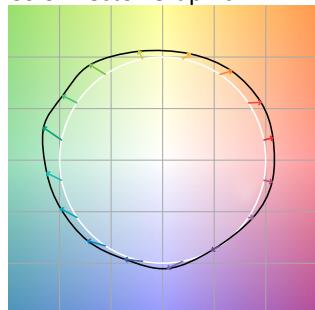
Rf 79.9

Fidelity Index
(Rg)

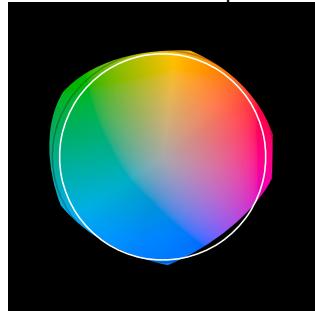
Rg 116.8

Gammut Index (Rg)

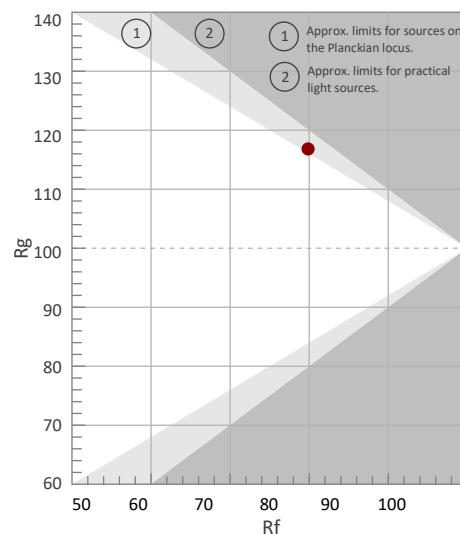
Color Vector Graphic



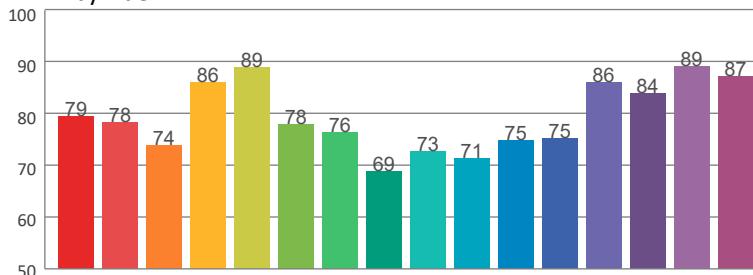
Color Distortion Graphic



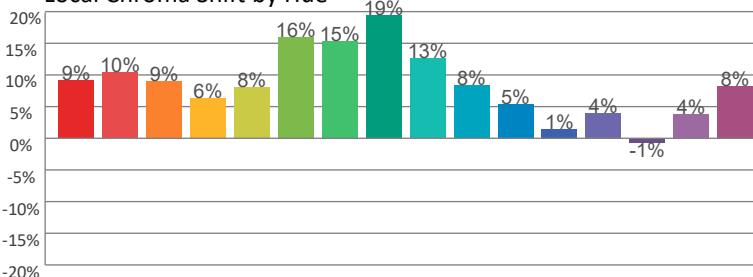
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	79	9%	0%
2	78	10%	-6%
3	74	9%	-7%
4	86	6%	-6%
5	89	8%	2%
6	78	16%	7%
7	76	15%	2%
8	69	19%	-8%
9	73	13%	-10%
10	71	8%	-16%
11	75	5%	-17%
12	75	1%	-17%
13	86	4%	-16%
14	84	-1%	-9%
15	89	4%	3%
16	87	8%	0%



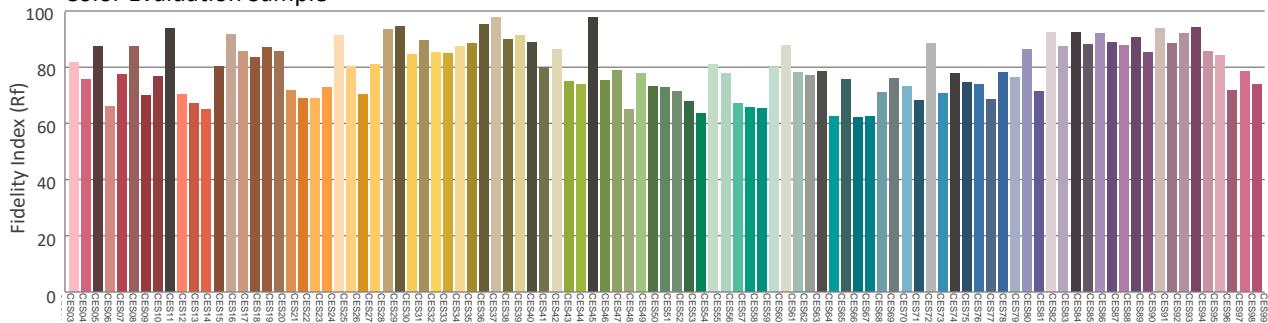
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 2700K

Report Summary

Measurements

Fixture Output: 238 lm
Fixture Peak: 284 cd
Fixture Efficacy: 14 lm/W
Intensity @ 5m: 11 lux
Color Temperature: 2741 K
CRI: 83.9 CRI R9 Value: 55.5
CQS: 87.9

TLCI: 79

TM-30 Rf: 89.3

TM-30 Rg: 108.8

Beam Angle (50%): 48°

Field Angle (10%): 93.7°

Cutoff Angle (3%): 122.3°

Conditions

AC Supply: 119 V, 60 Hz

Power: 19.48 W

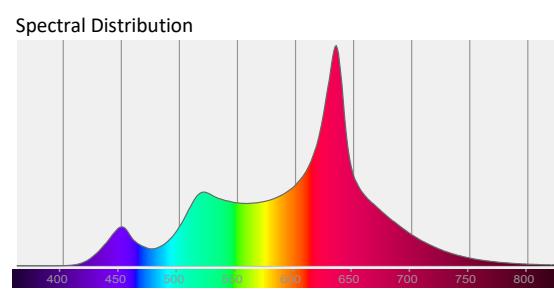
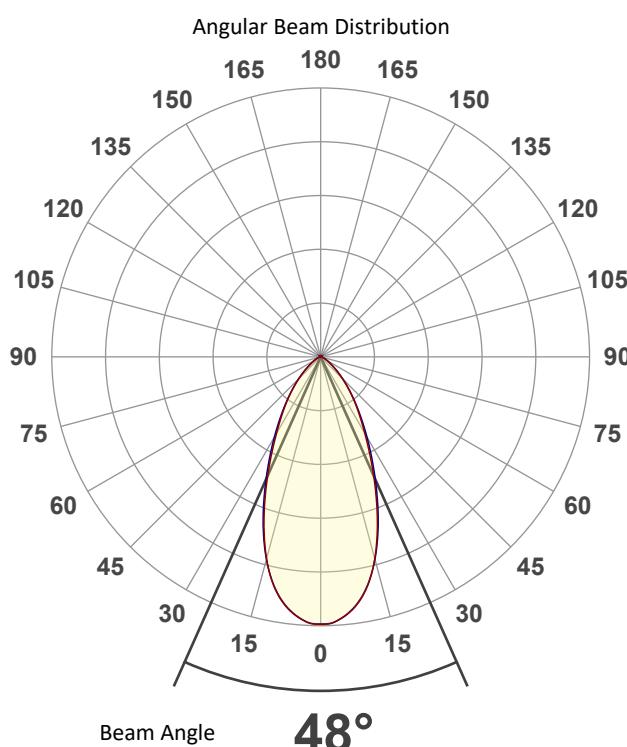
Current: 0.164 A

Power Factor: 0.86



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.455
Y: 0.406

Light Quality
CRI: 83.9

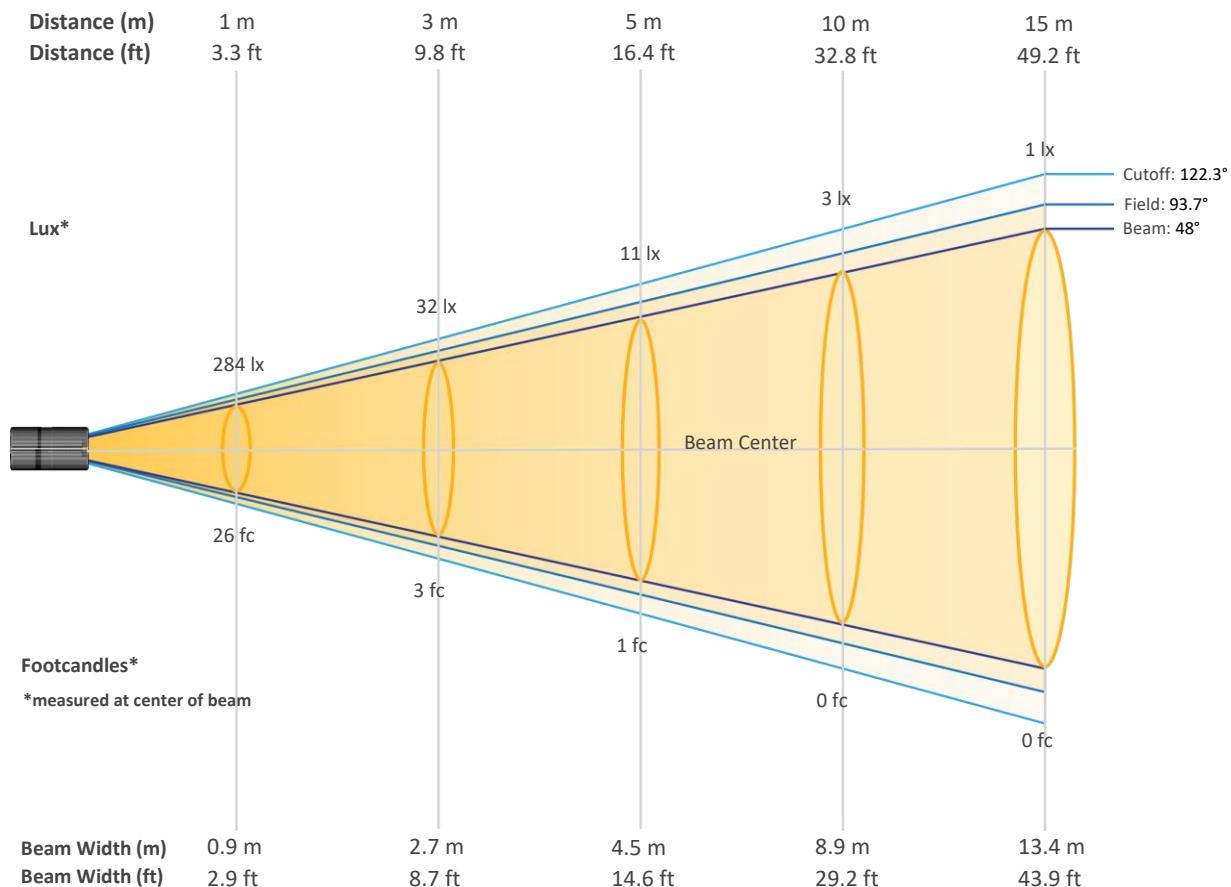
Color Temperature

2741 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 2700K

Beam Details

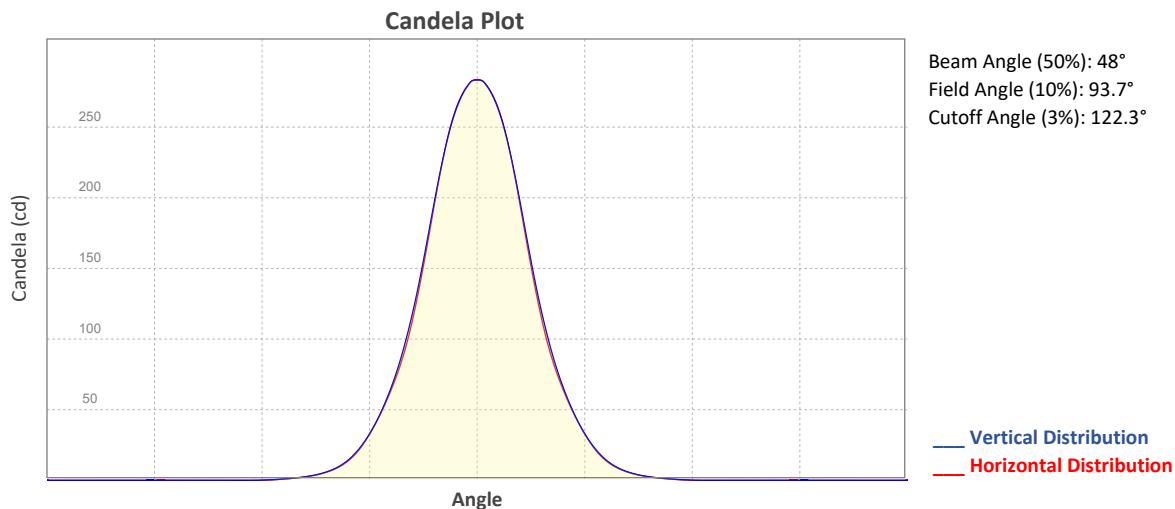


Beam Intensities from 1-20m (3.3-65.6ft)

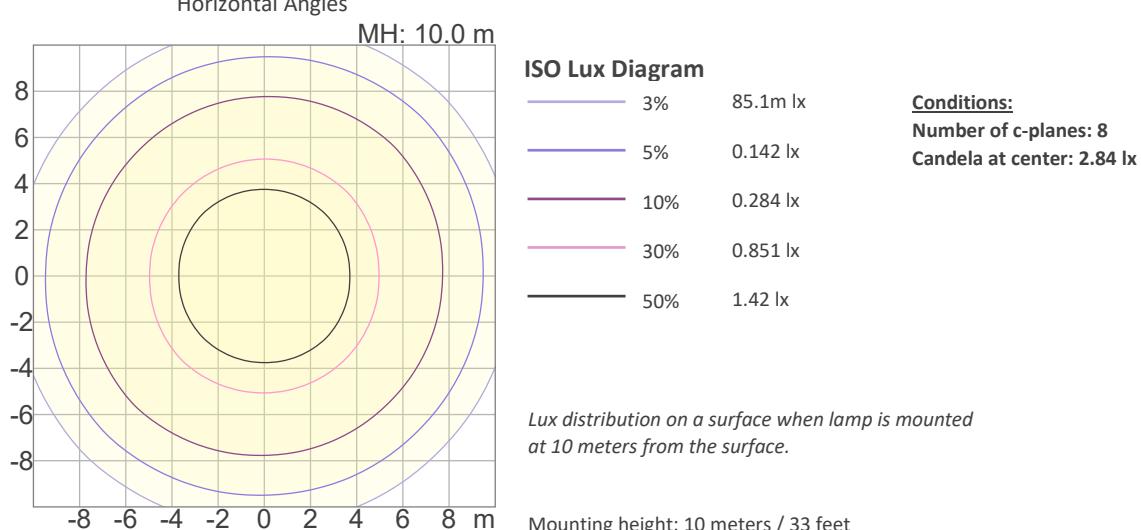
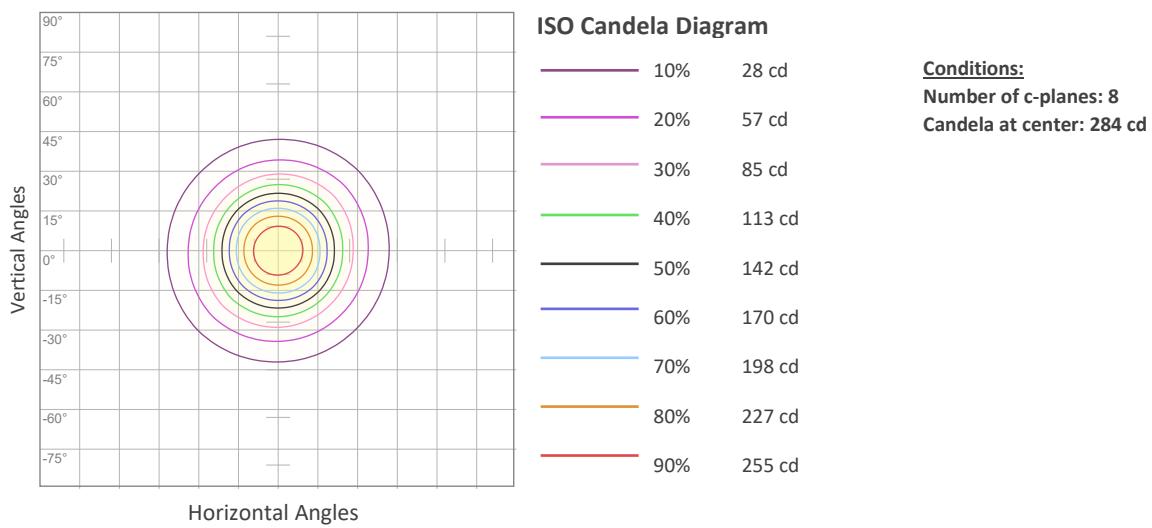
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	284	71	32	18	11	8	6	4	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	2	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	26	7	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 2700K



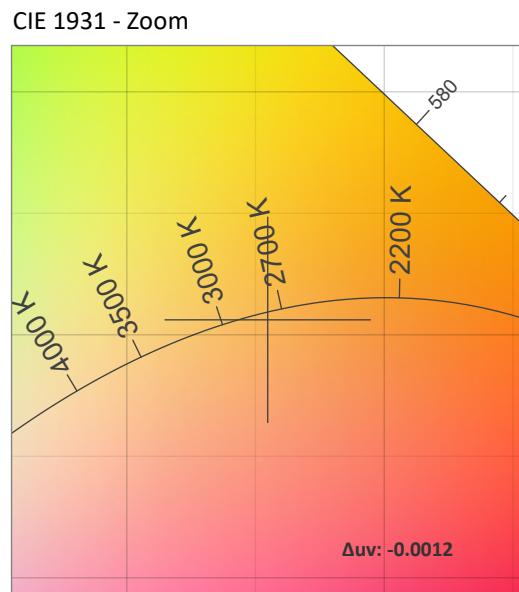
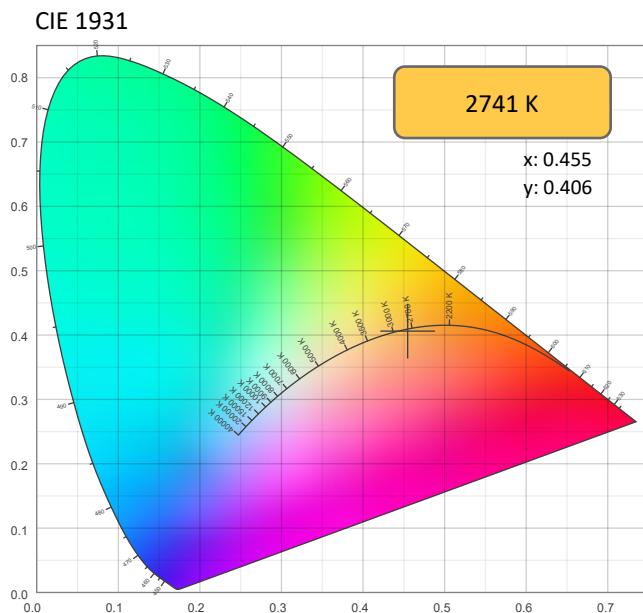
ISO Diagrams



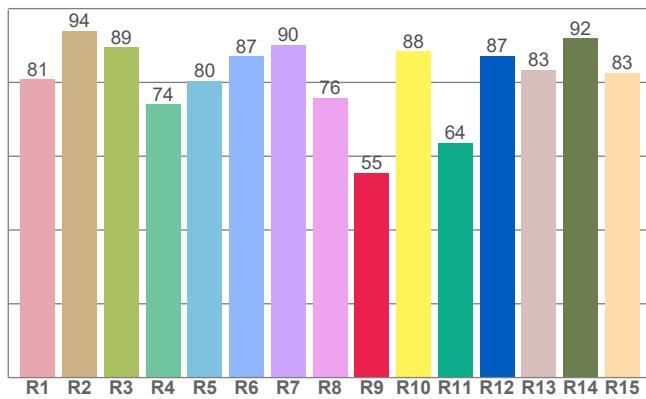
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 2700K

Chromaticity



CRI: 83.9 (R1-R8)

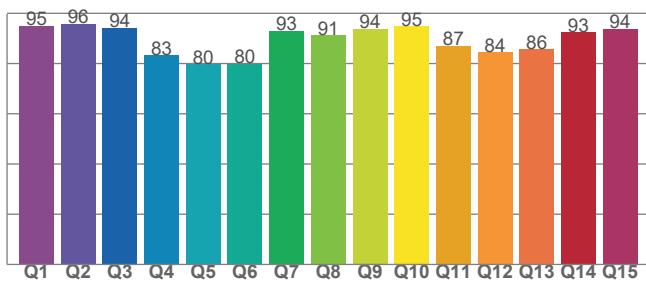


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2741 K	0.455	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0012	0.406	0.261

CQS: 87.9



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
83.9	55.5	87.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
79	89.3	108.8

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 2700K

TM-30 Details

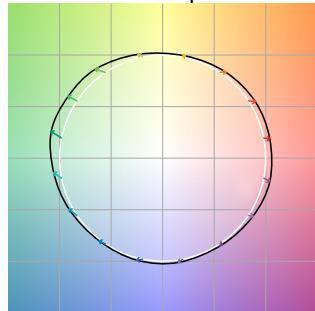
Rf 89.3

Fidelity Index
(Rg)

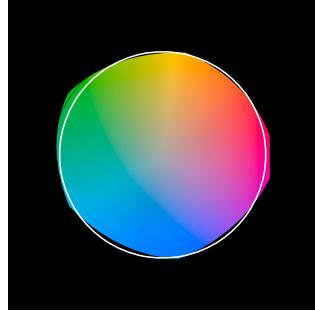
Rg 108.8

Gammut Index (Rg)

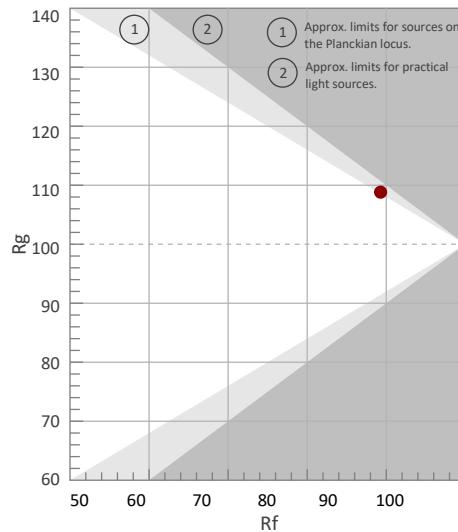
Color Vector Graphic



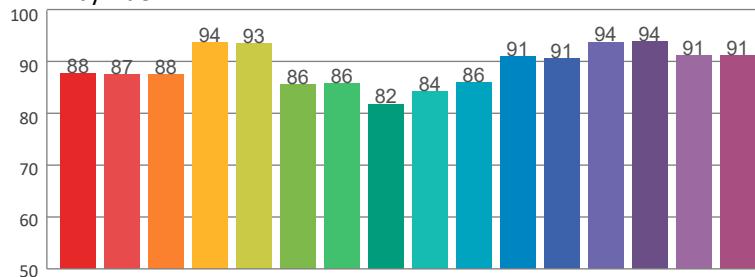
Color Distortion Graphic



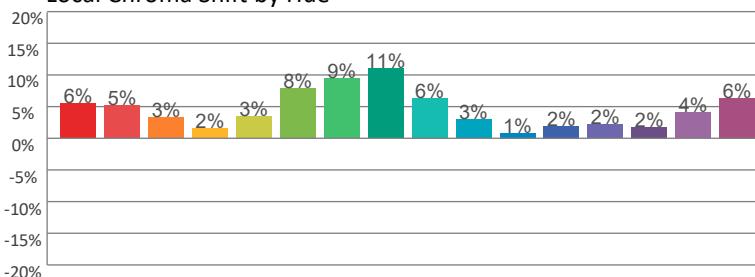
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	88	6%	-2%
2	87	5%	-4%
3	88	3%	-4%
4	94	2%	-2%
5	93	3%	4%
6	86	8%	6%
7	86	9%	1%
8	82	11%	-4%
9	84	6%	-7%
10	86	3%	-9%
11	91	1%	-6%
12	91	2%	-5%
13	94	2%	-4%
14	94	2%	1%
15	91	4%	2%
16	91	6%	-2%



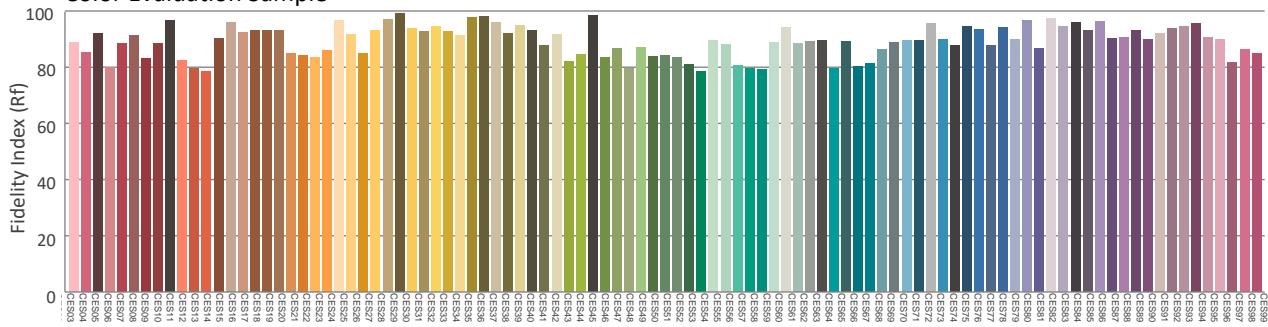
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 3000K

Report Summary

Measurements

Fixture Output: 212 lm
Fixture Peak: 252 cd
Fixture Efficacy: 13 lm/W
Intensity @ 5m: 10 lux
Color Temperature: 3048 K
CRI: 95.3 CRI R9 Value: 94.3
CQS: 94.8

TLCI: 95

TM-30 Rf: 95.1

TM-30 Rg: 104.3

Beam Angle (50%): 48°

Field Angle (10%): 93.7°

Cutoff Angle (2%): 122.7°

Conditions

AC Supply: 119 V, 60 Hz

Power: 18.89 W

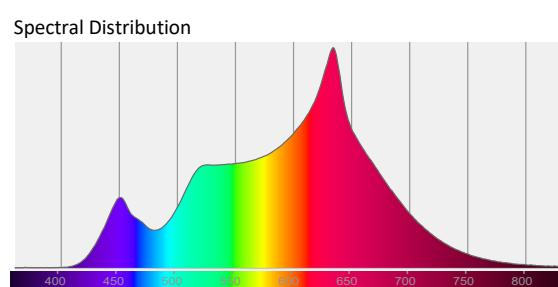
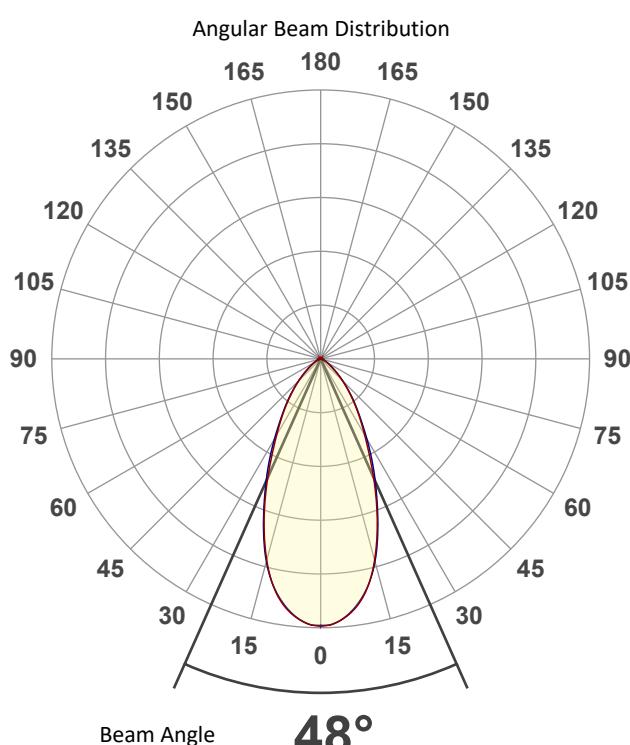
Current: 0.159 A

Power Factor: 0.85



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.433
Y: 0.401

Light Quality



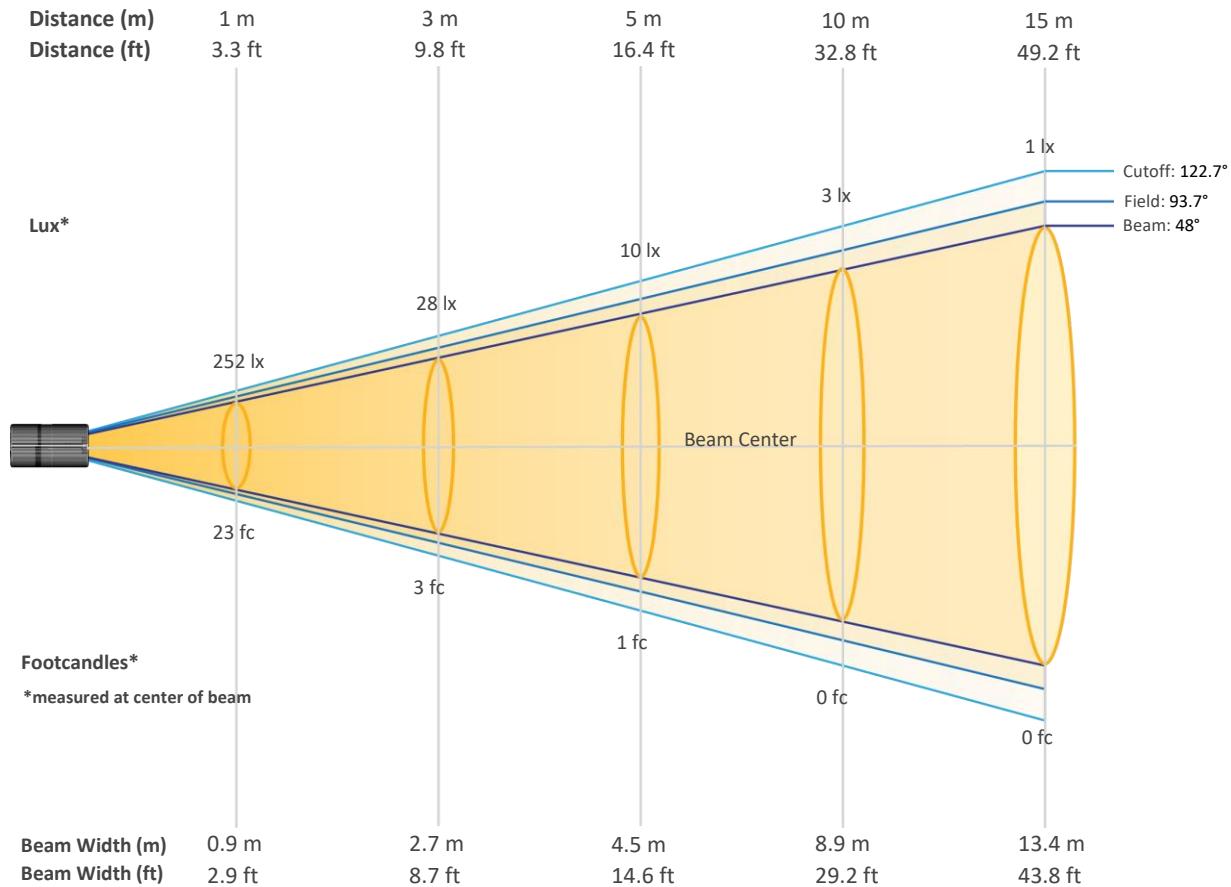
Color Temperature



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 3000K

Beam Details

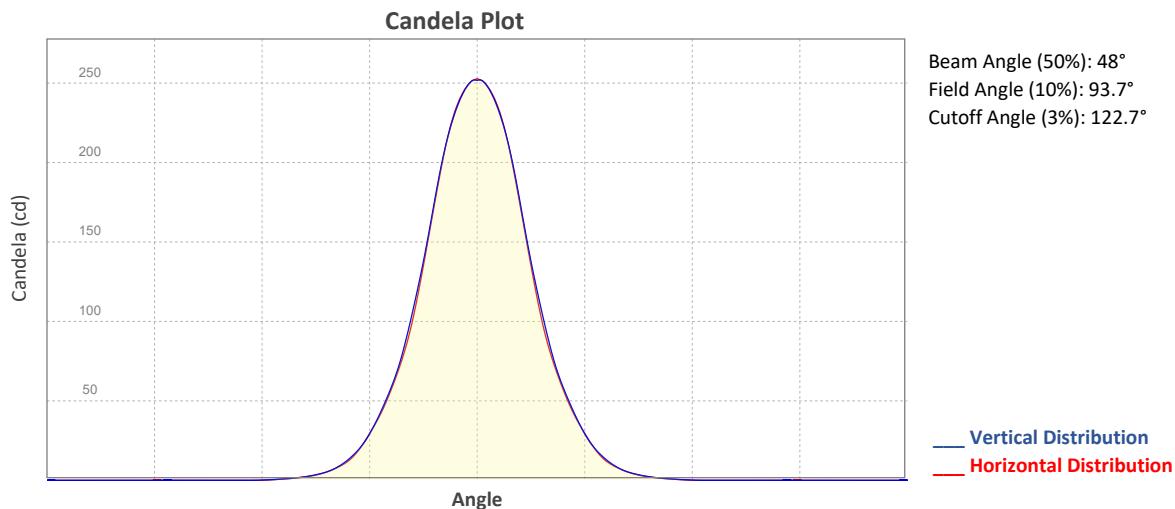


Beam Intensities from 1-20m (3.3-65.6ft)

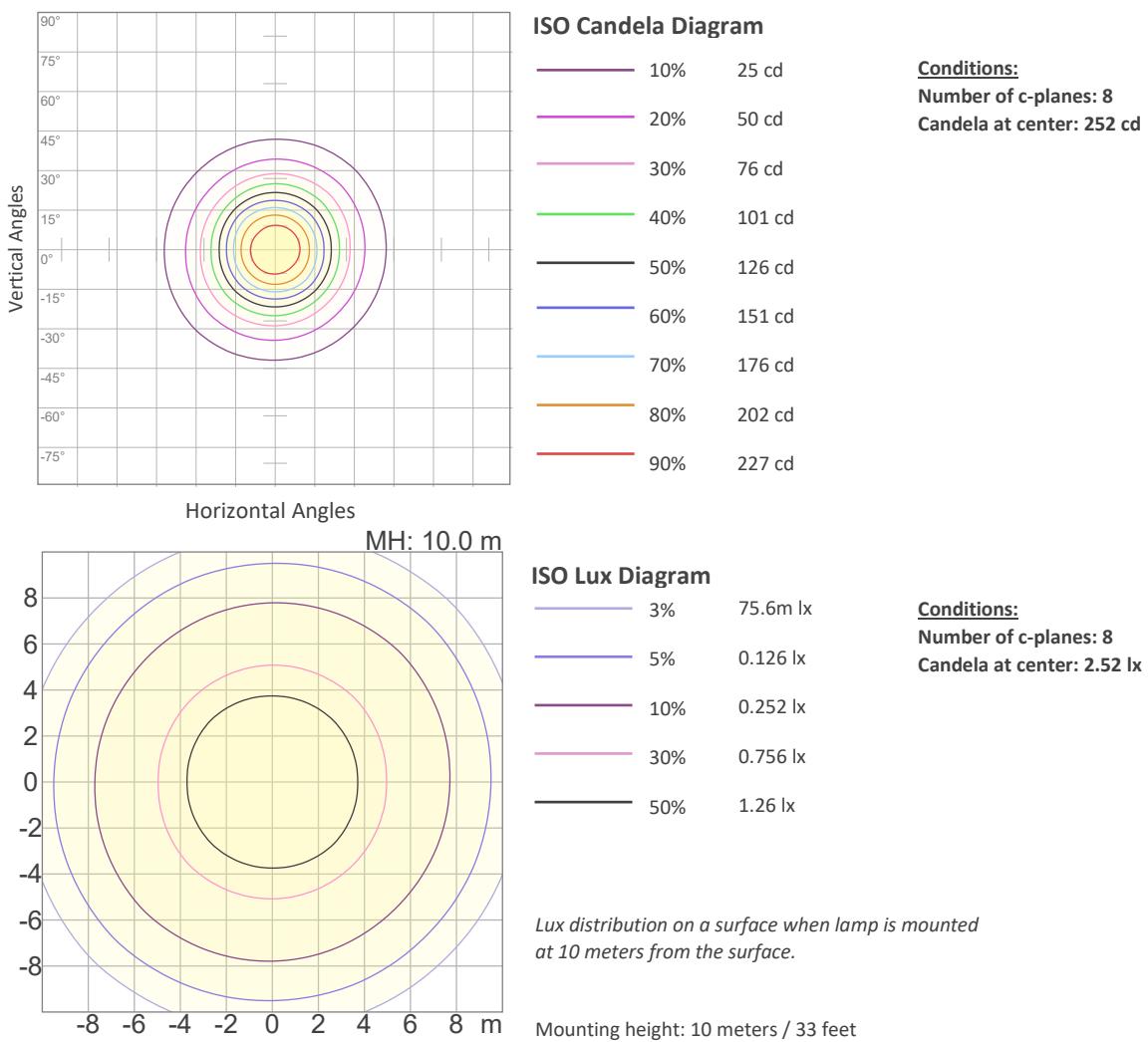
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	252	63	28	16	10	7	5	4	3	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	1	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	23	6	3	1	1	1	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 3000K



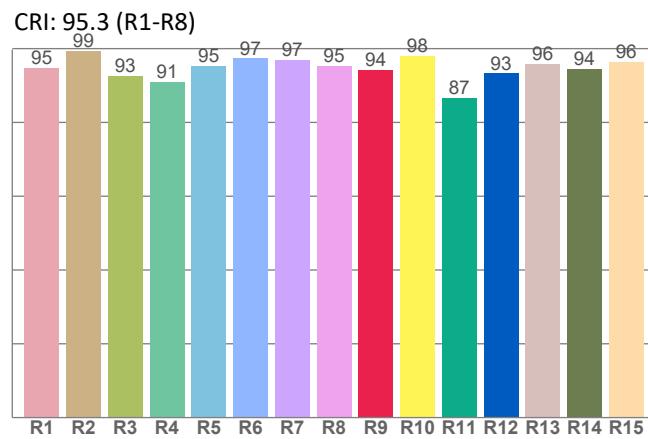
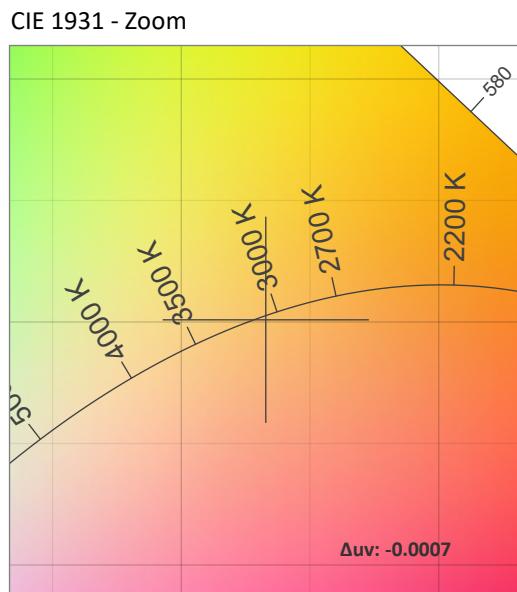
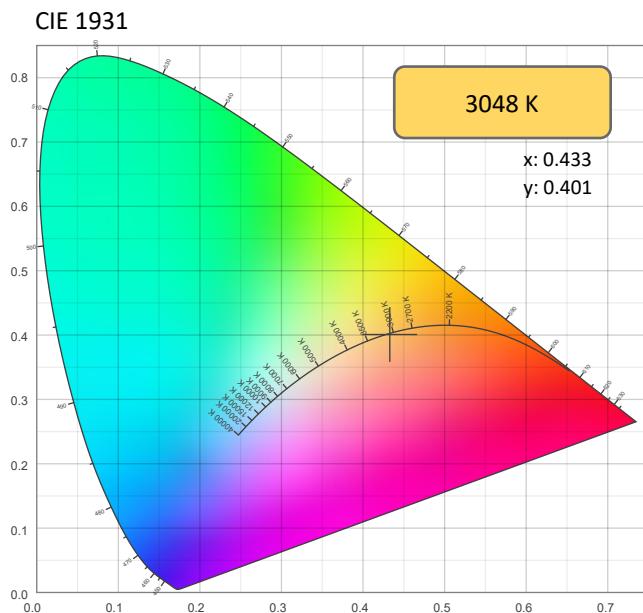
ISO Diagrams



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 3000K

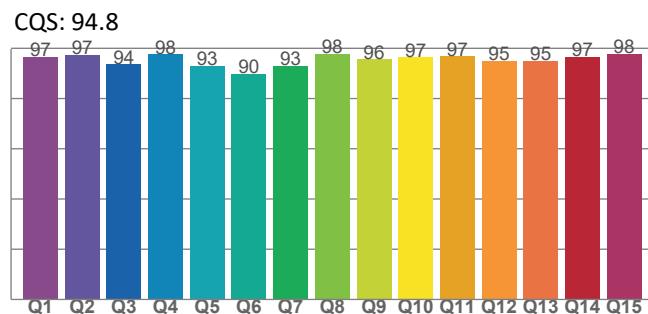
Chromaticity



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3048 K	0.433	0.401

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0007	0.401	0.249



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
95.3	94.3	94.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
95	95.1	104.3

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 3000K

TM-30 Details

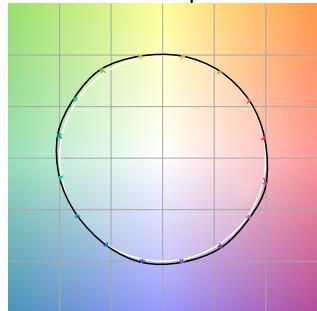
Rf 95.1

Fidelity Index
(Rg)

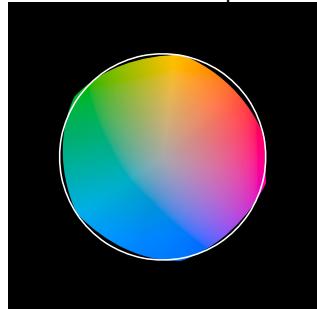
Rg 104.3

Gammut Index (Rg)

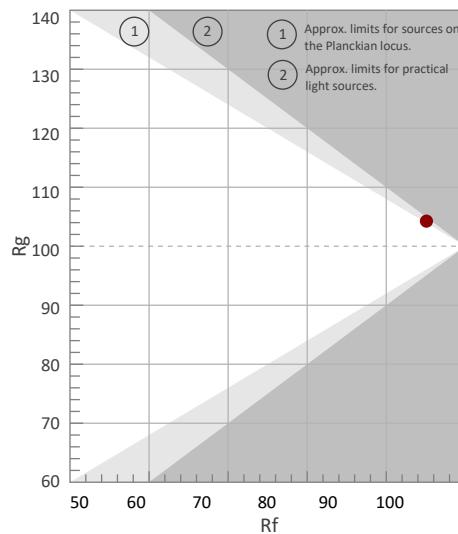
Color Vector Graphic



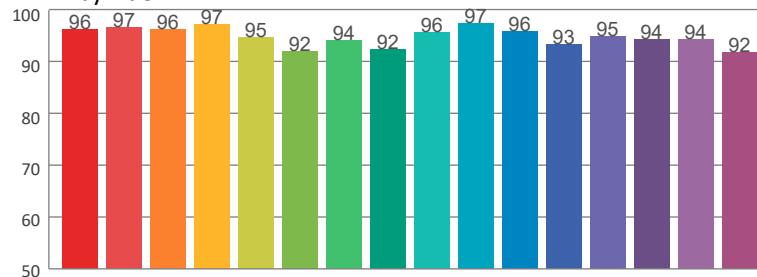
Color Distortion Graphic



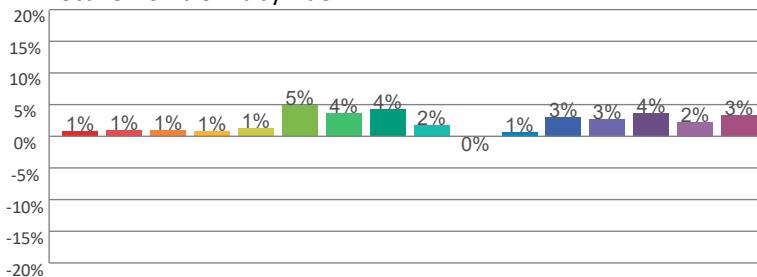
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-1%
2	97	1%	-1%
3	96	1%	1%
4	97	1%	1%
5	95	1%	3%
6	92	5%	2%
7	94	4%	-1%
8	92	4%	-3%
9	96	2%	-2%
10	97	0%	-1%
11	96	1%	2%
12	93	3%	0%
13	95	3%	-2%
14	94	4%	-2%
15	94	2%	-2%
16	92	3%	-6%



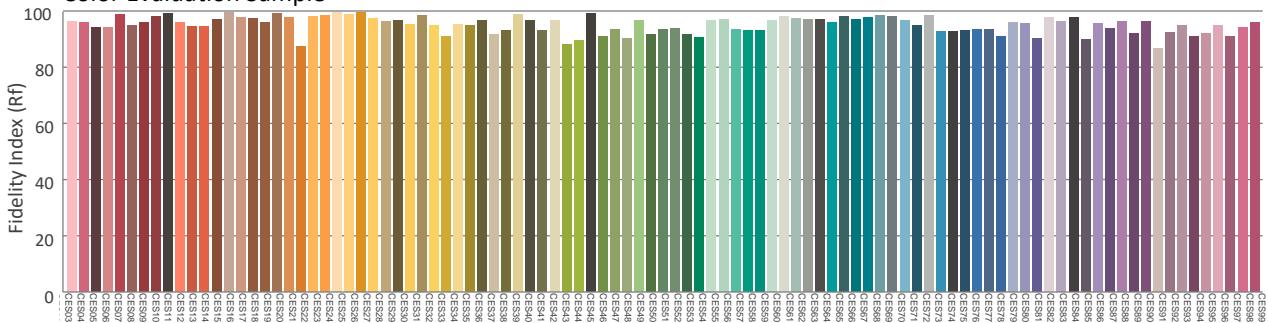
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 3200K

Report Summary

Measurements

Fixture Output: 212 lm
Fixture Peak: 253 cd
Fixture Efficacy: 13 lm/W
Intensity @ 5m: 10 lux
Color Temperature: 3232 K
CRI: 96.0 CRI R9 Value: 94.6
CQS: 96.1

TLCI: 97
TM-30 Rf: 95.5
TM-30 Rg: 103.0
Beam Angle (50%): 48°
Field Angle (10%): 93.8°
Cutoff Angle (3%): 122.7°

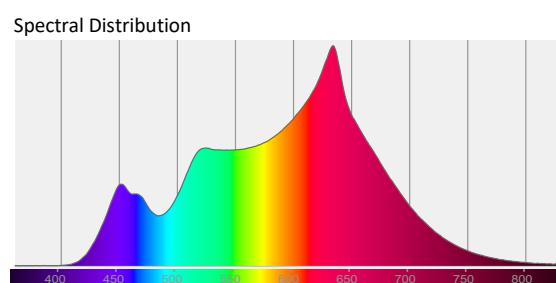
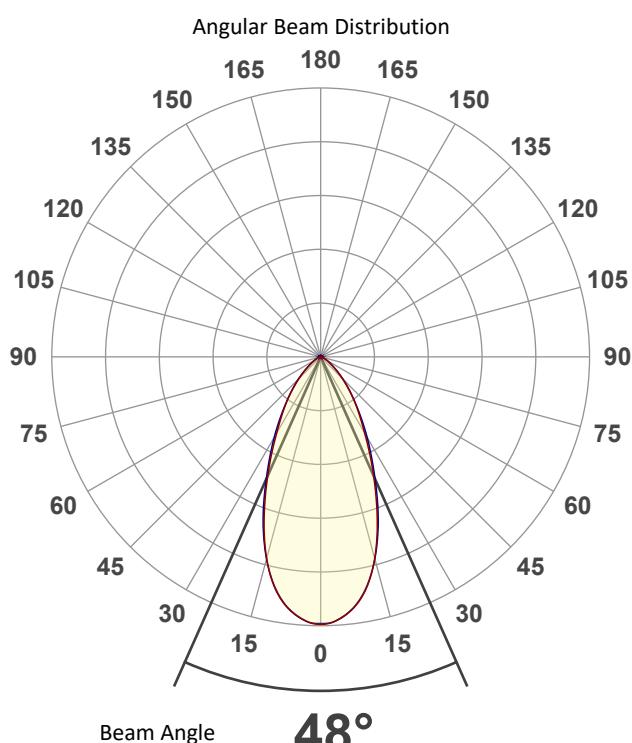
Conditions

AC Supply: 119 V, 60 Hz
Power: 18.95 W
Current: 0.159 A
Power Factor: 0.85



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.421
Y: 0.396

Light Quality
CRI: 96.0

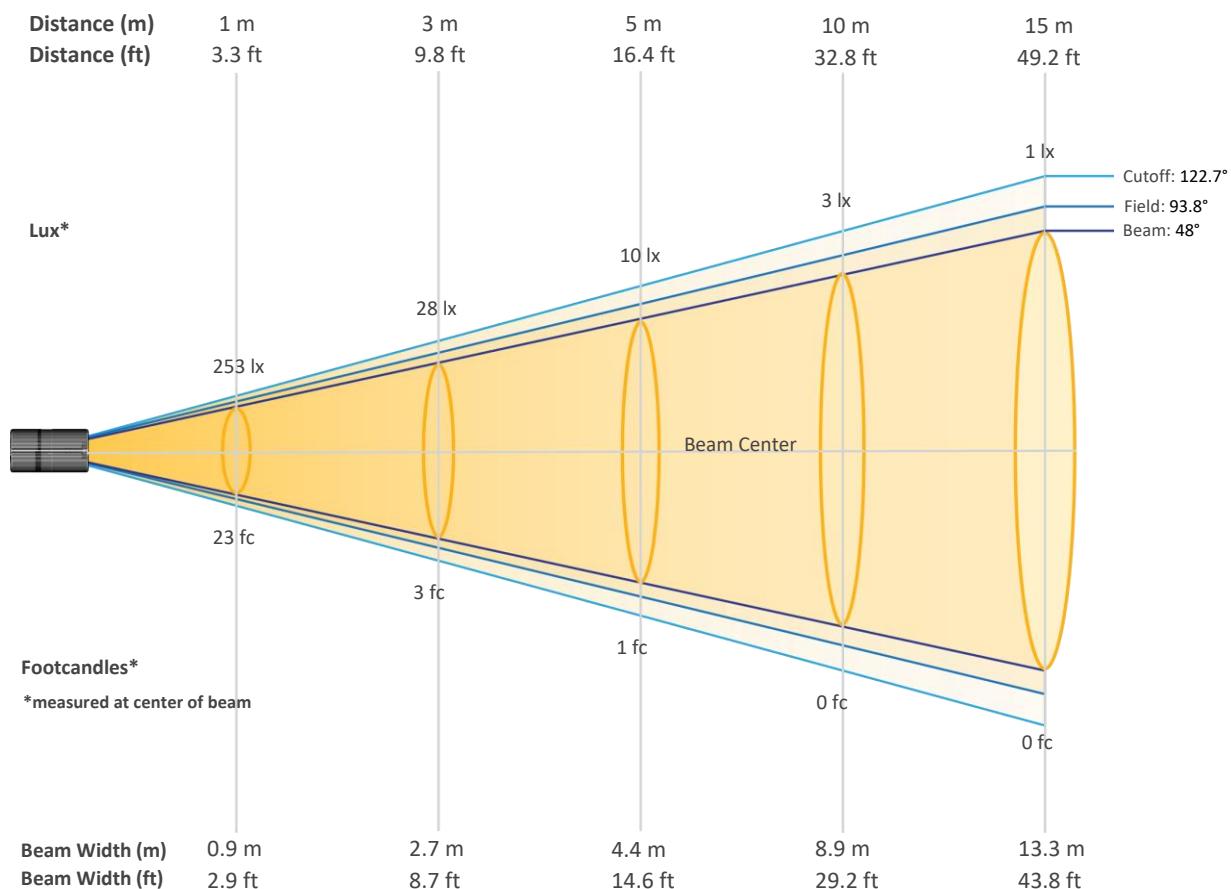
Color Temperature

3232 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 3200K

Beam Details

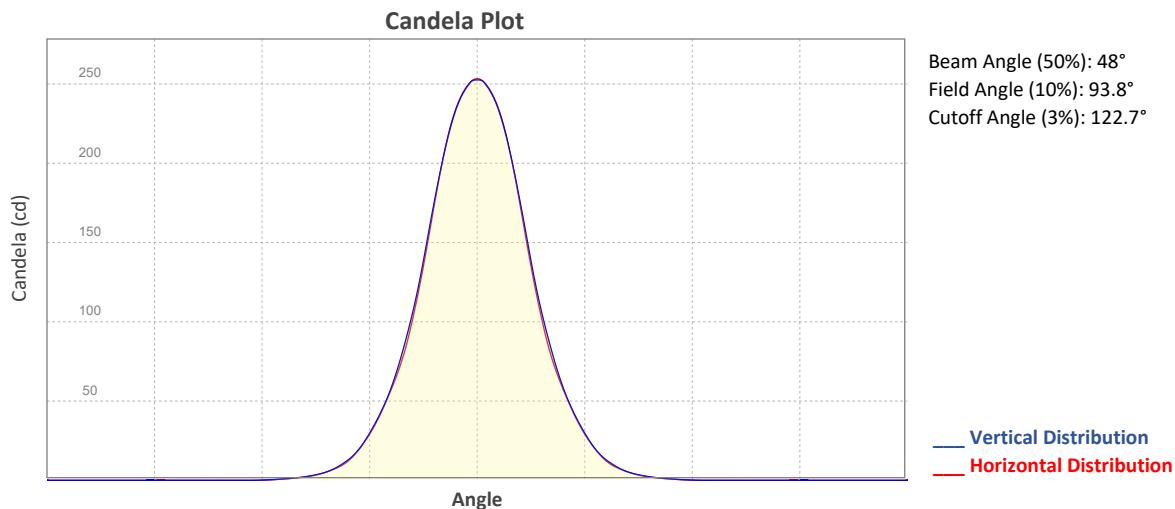


Beam Intensities from 1-20m (3.3-65.6ft)

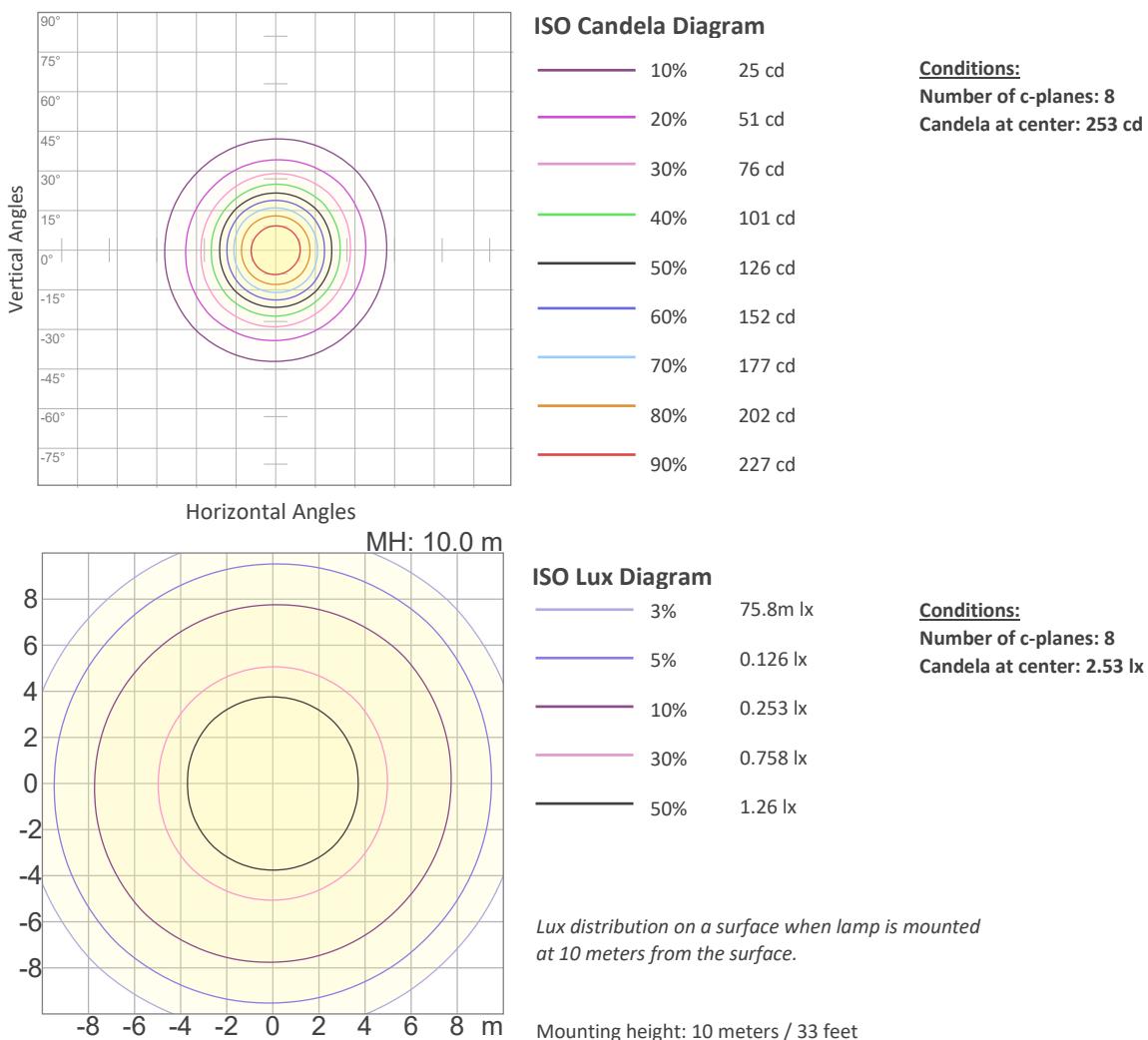
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	253	63	28	16	10	7	5	4	3	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	1	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	23	6	3	1	1	1	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 3200K



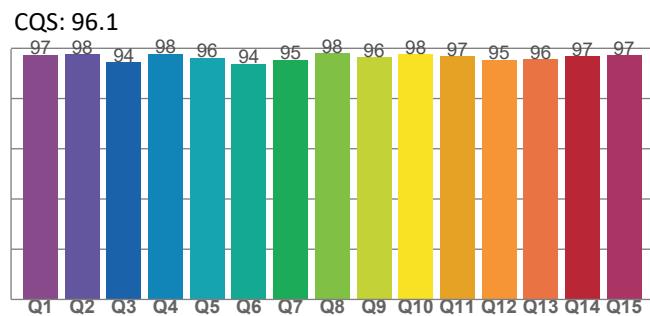
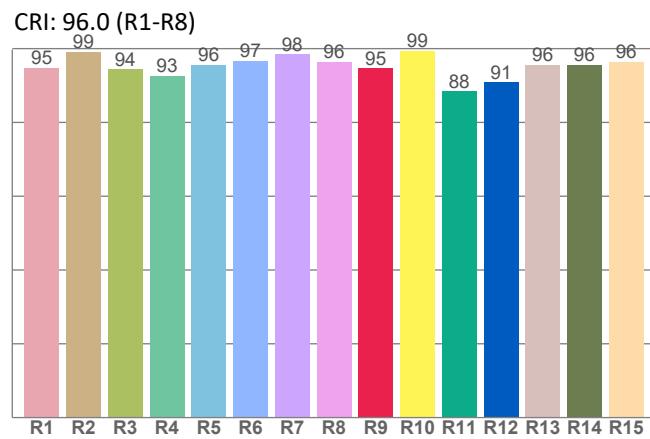
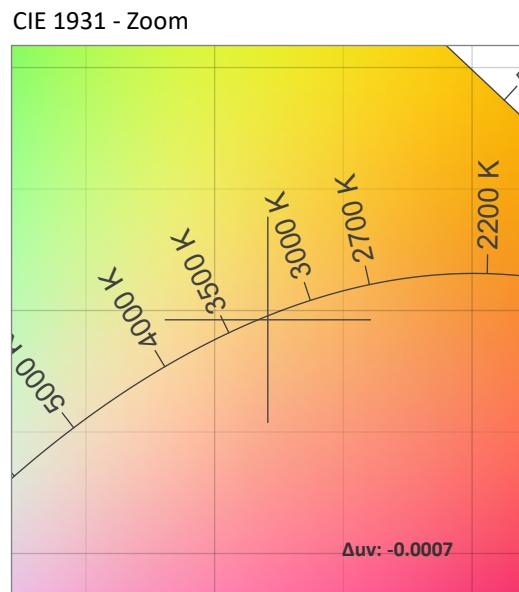
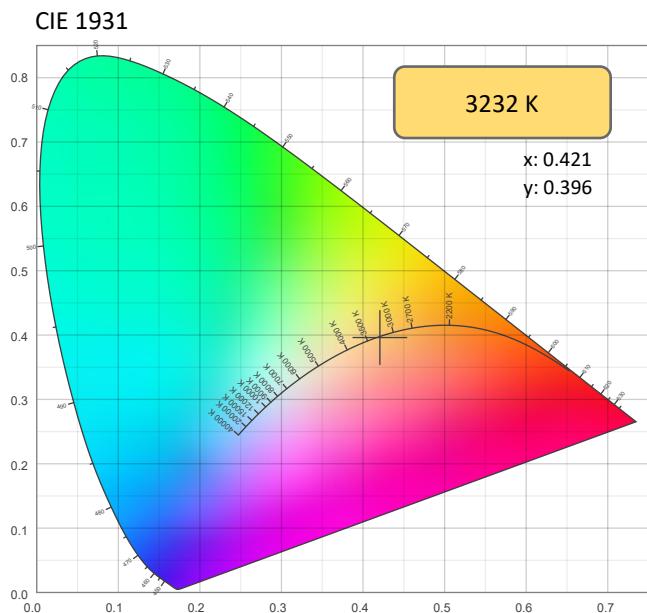
ISO Diagrams



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 3200K

Chromaticity



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3232 K	0.421	0.396

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0007	0.396	0.243

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
96.0	94.6	96.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
97	95.5	103.0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 3200K

TM-30 Details

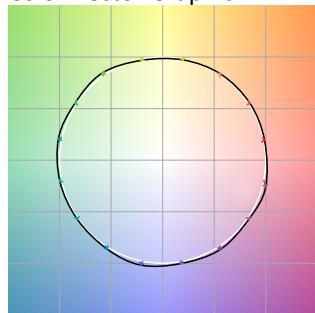
Rf 95.5

Fidelity Index
(Rg)

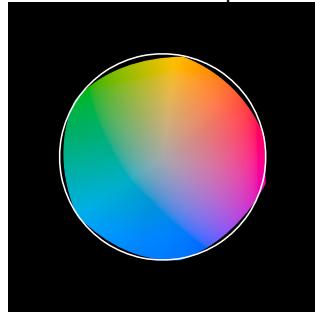
Rg 103.0

Gammut Index (Rg)

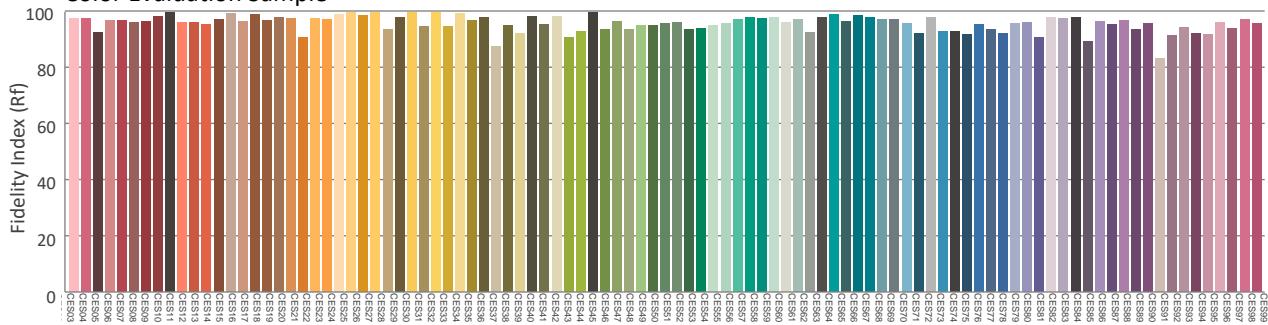
Color Vector Graphic



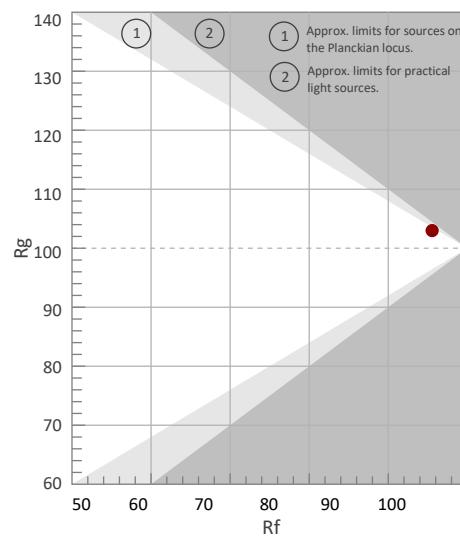
Color Distortion Graphic



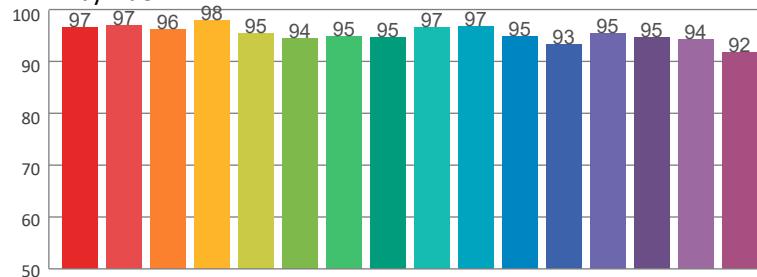
Color Evaluation Sample



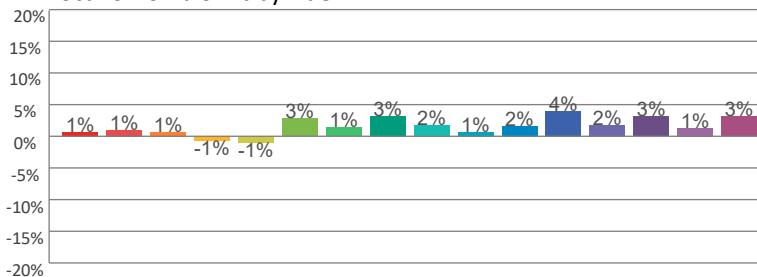
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	97	1%	0%
2	97	1%	-1%
3	96	1%	0%
4	98	-1%	0%
5	95	-1%	2%
6	94	3%	2%
7	95	1%	1%
8	95	3%	-1%
9	97	2%	1%
10	97	1%	2%
11	95	2%	3%
12	93	4%	-1%
13	95	2%	-3%
14	95	3%	-2%
15	94	1%	-1%
16	92	3%	-6%



Rf by Hue



Local Chroma Shift by Hue



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 4000K

Report Summary

Measurements

Fixture Output: 223 lm
Fixture Peak: 265 cd
Fixture Efficacy: 14 lm/W
Intensity @ 5m: 11 lux
Color Temperature: 4047 K
CRI: 93.5 CRI R9 Value: 84.6
CQS: 94.5

TLCI: 98

TM-30 Rf: 90.5

TM-30 Rg: 98.8

Beam Angle (50%): 48.2°

Field Angle (10%): 93.9°

Cutoff Angle (3%): 122.8°

Conditions

AC Supply: 119 V, 60 Hz

Power: 19.24 W

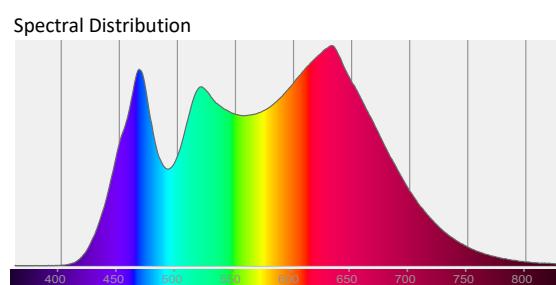
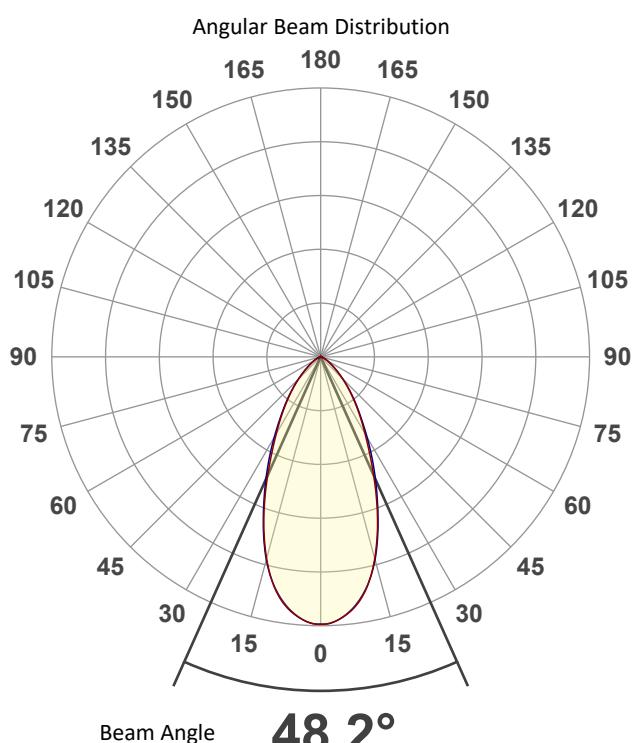
Current: 0.162 A

Power Factor: 0.86



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.378
Y: 0.374

Light Quality



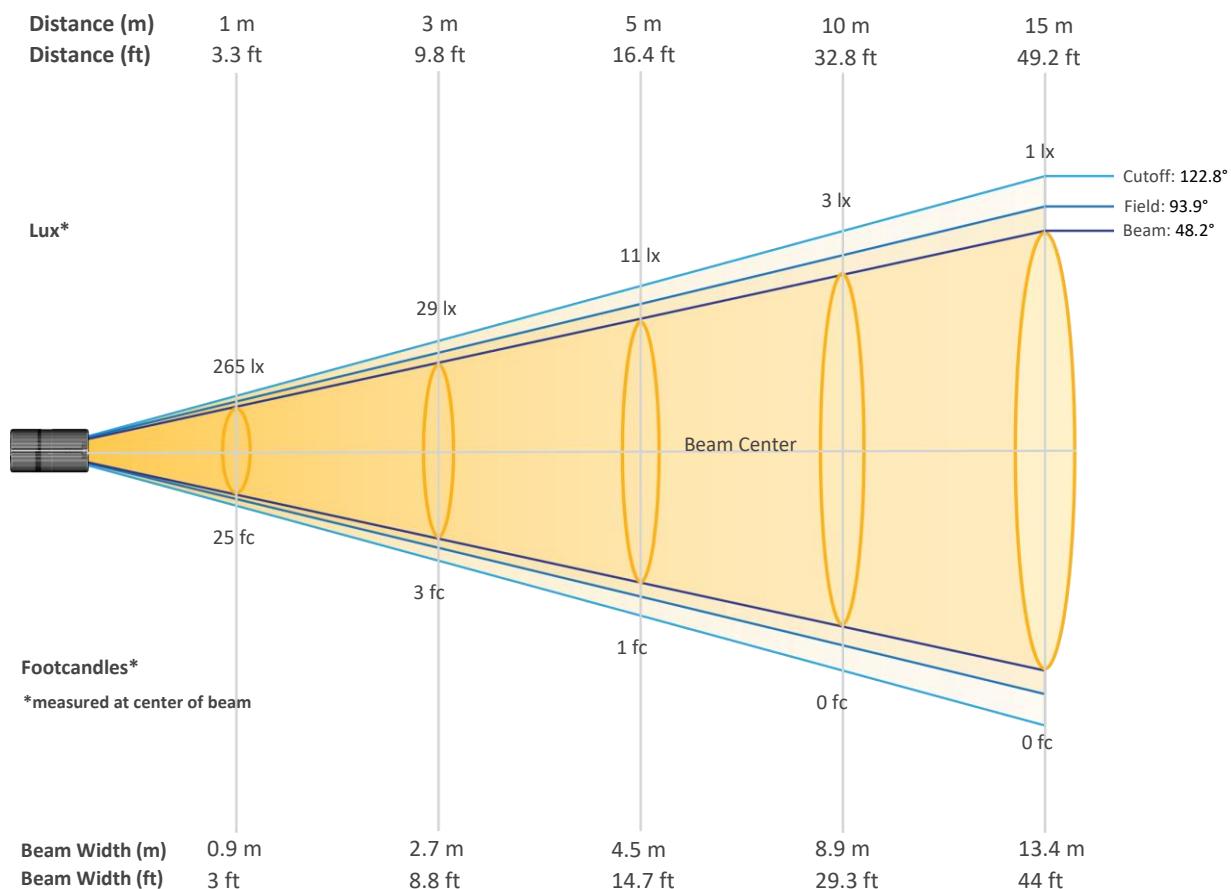
Color Temperature



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 4000K

Beam Details

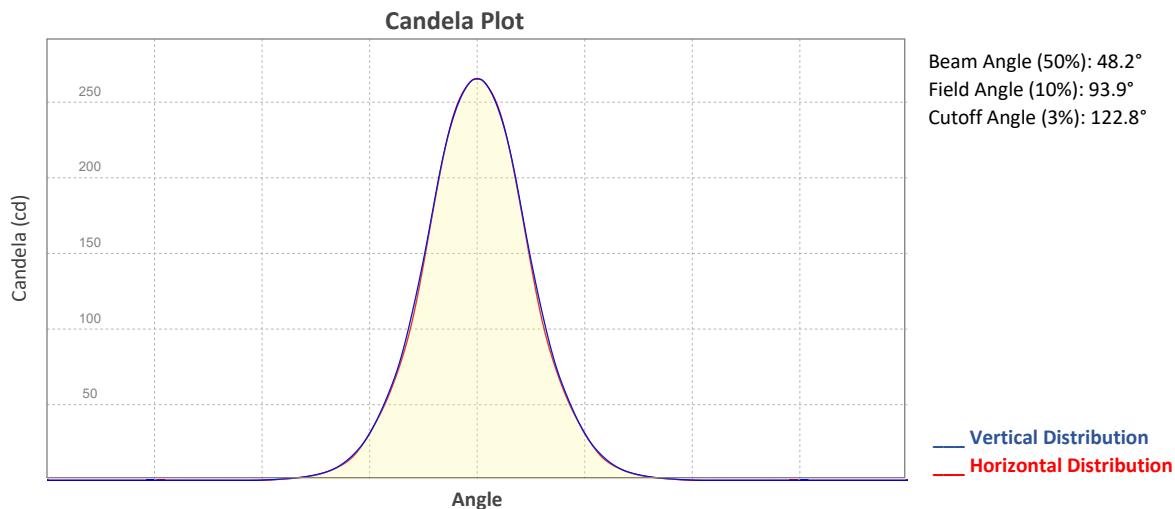


Beam Intensities from 1-20m (3.3-65.6ft)

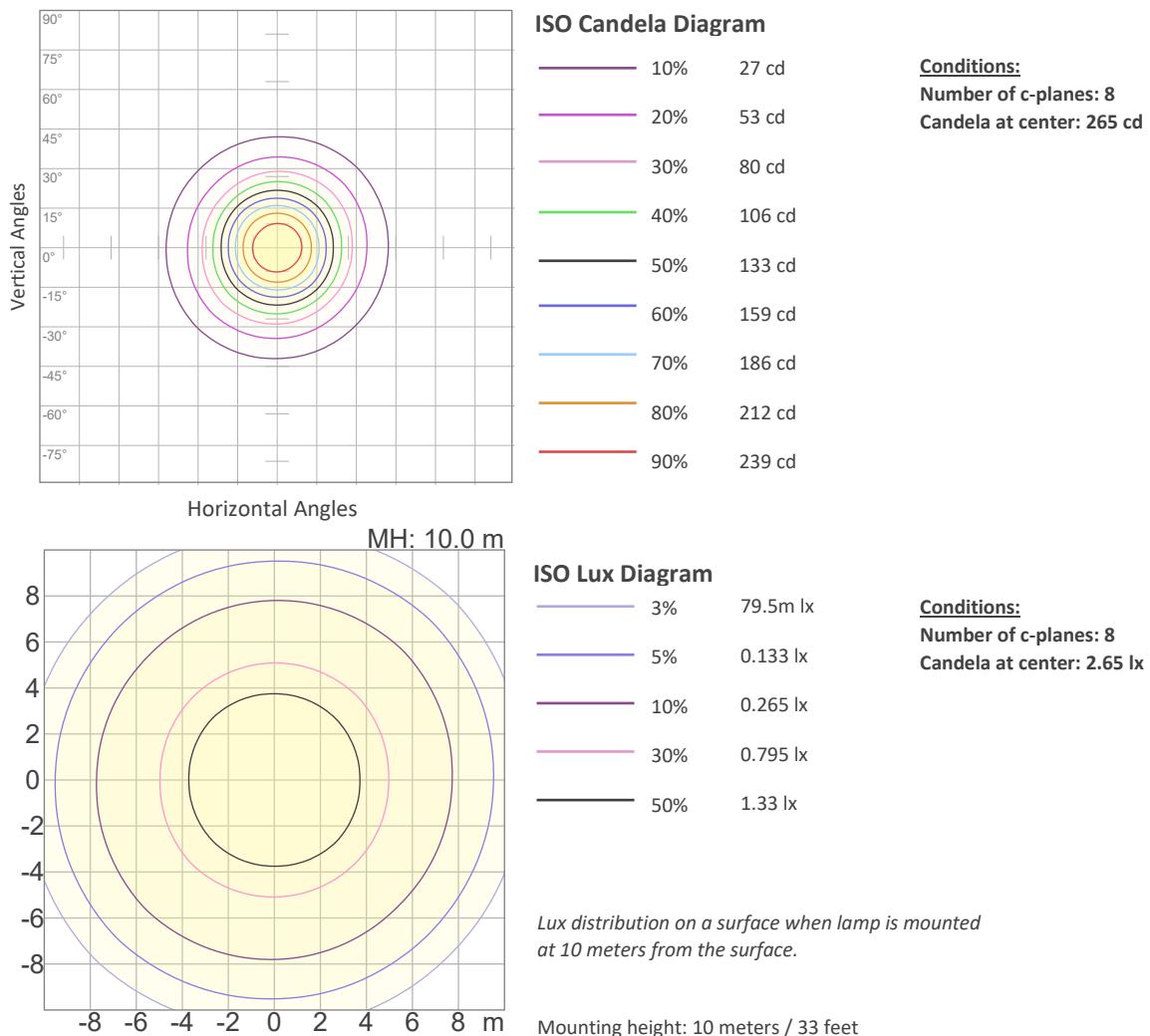
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	265	66	29	17	11	7	5	4	3	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	2	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	25	6	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 4000K



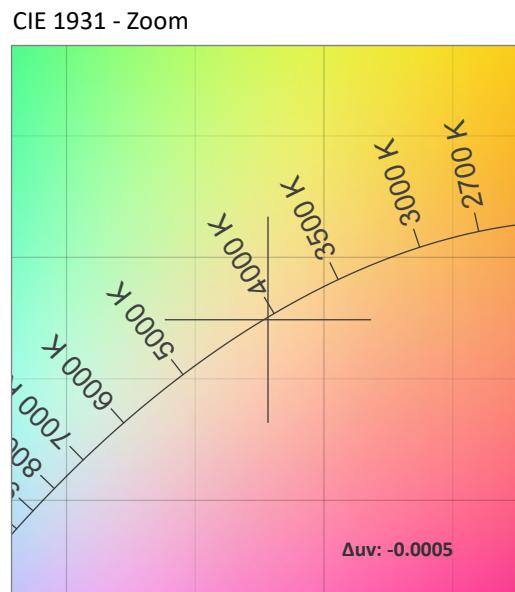
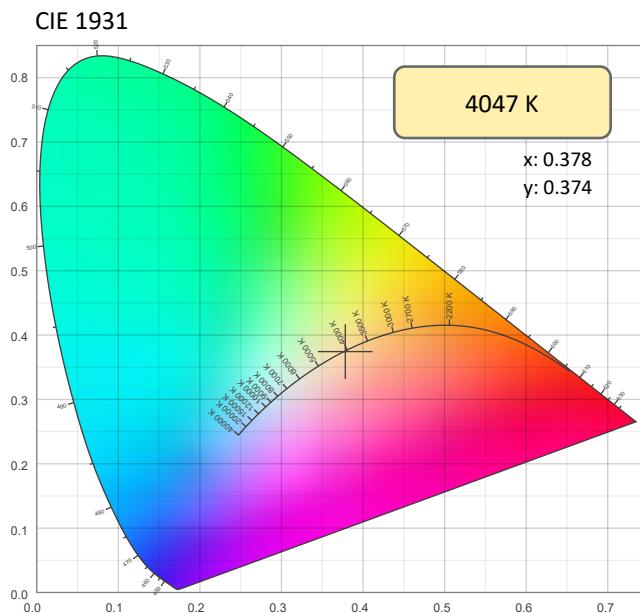
ISO Diagrams



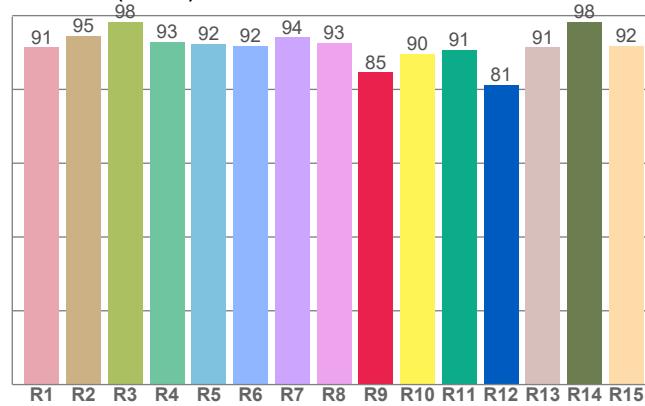
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 4000K

Chromaticity



CRI: 93.5 (R1-R8)

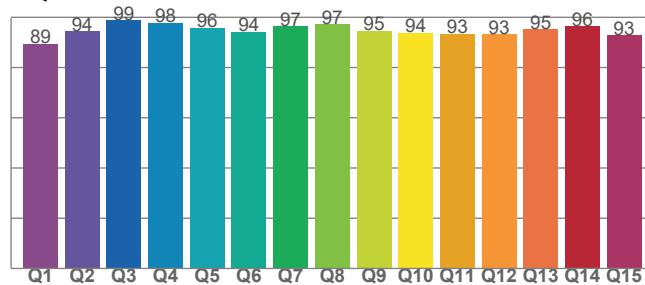


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4047 K	0.378	0.374

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0005	0.374	0.225

CQS: 94.5



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.5	84.6	94.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
98	90.5	98.8

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 4000K

TM-30 Details

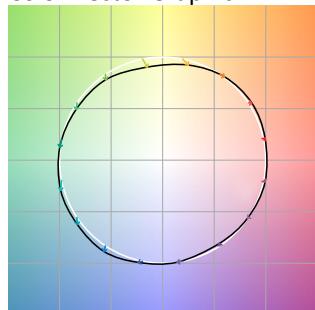
Rf 90.5

Fidelity Index
(Rg)

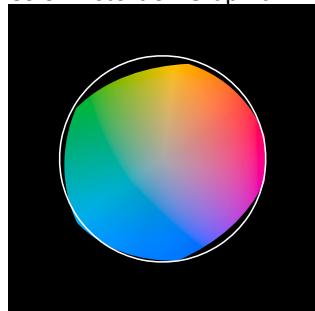
Rg 98.8

Gammut Index (Rg)

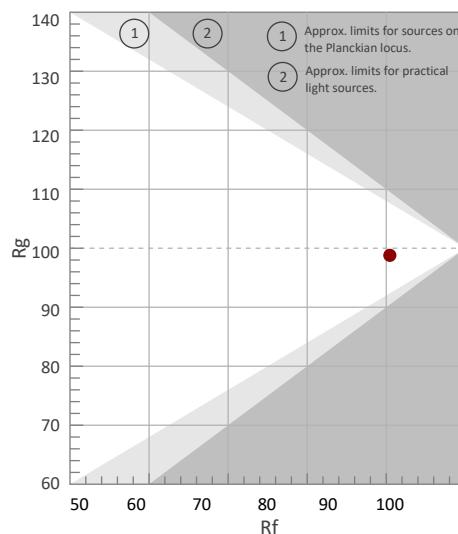
Color Vector Graphic



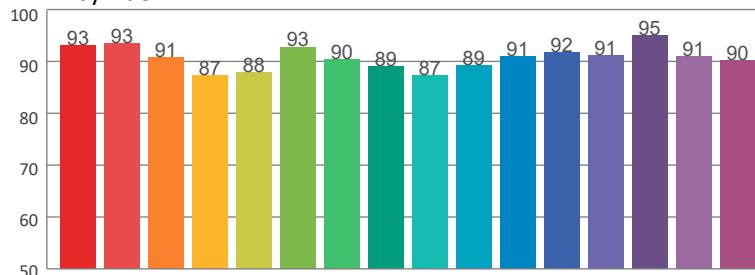
Color Distortion Graphic



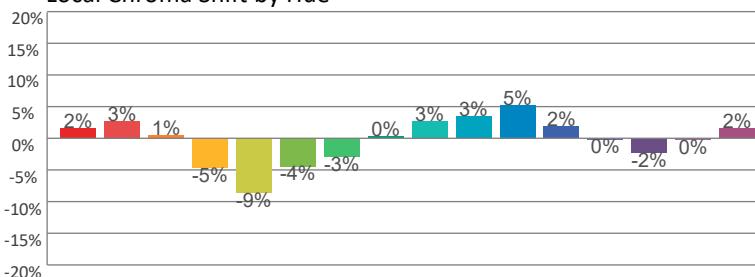
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	2%
2	93	3%	-2%
3	91	1%	-5%
4	87	-5%	-6%
5	88	-9%	-3%
6	93	-4%	2%
7	90	-3%	6%
8	89	0%	7%
9	87	3%	9%
10	89	3%	6%
11	91	5%	2%
12	92	2%	-4%
13	91	0%	-5%
14	95	-2%	1%
15	91	0%	-1%
16	90	2%	-1%



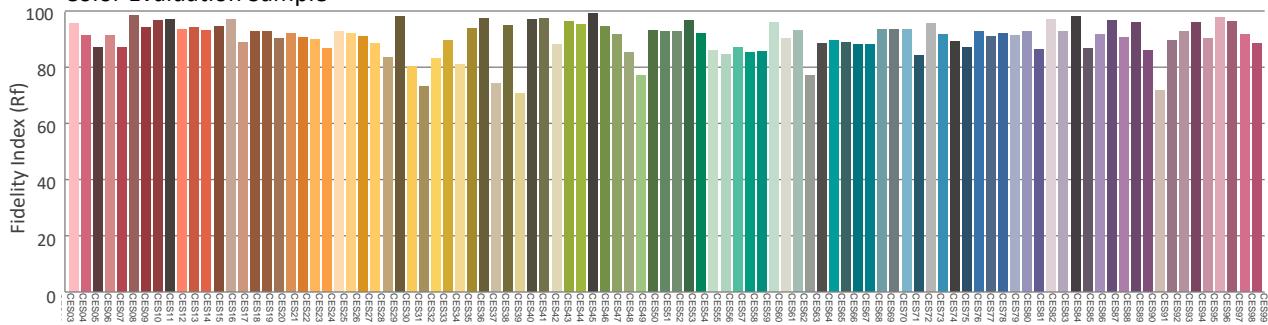
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 4500K

Report Summary

Measurements

Fixture Output: 234 lm
Fixture Peak: 277 cd
Fixture Efficacy: 14 lm/W
Intensity @ 5m: 11 lux
Color Temperature: 4557 K
CRI: 89.4 CRI R9 Value: 70.4
CQS: 91.3

TLCI: 96
TM-30 Rf: 87.9
TM-30 Rg: 98.4
Beam Angle (50%): 48.2°
Field Angle (10%): 94°
Cutoff Angle (3%): 122.9°

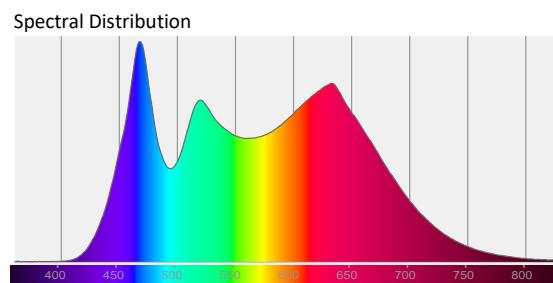
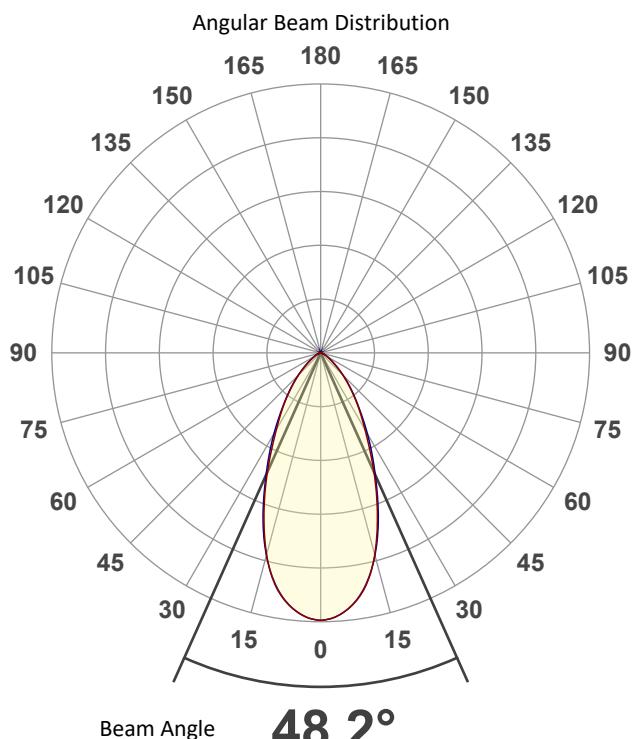
Conditions

AC Supply: 119 V, 60 Hz
Power: 19.51 W
Current: 0.164 A
Power Factor: 0.86



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



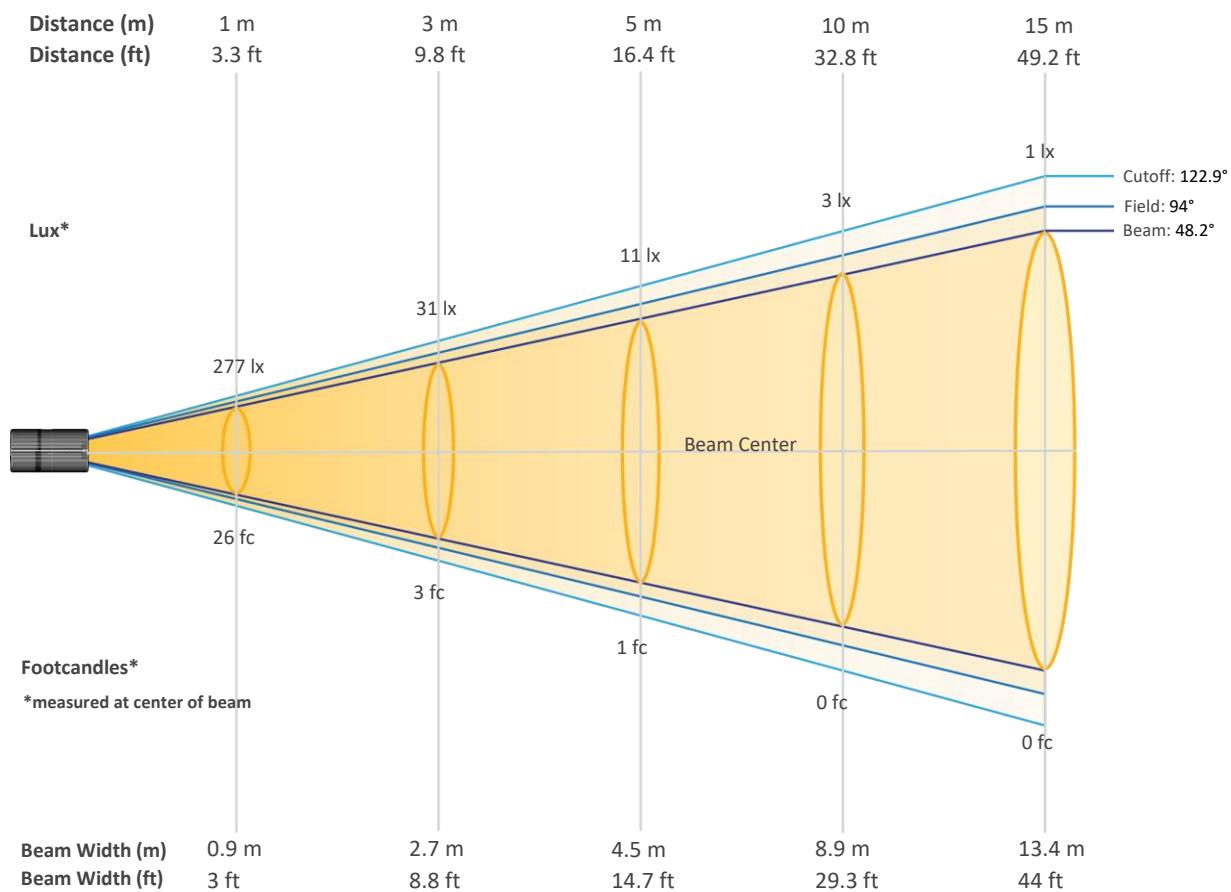
Tested Color (CIE 1931):
X: 0.359
Y: 0.360



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 4500K

Beam Details

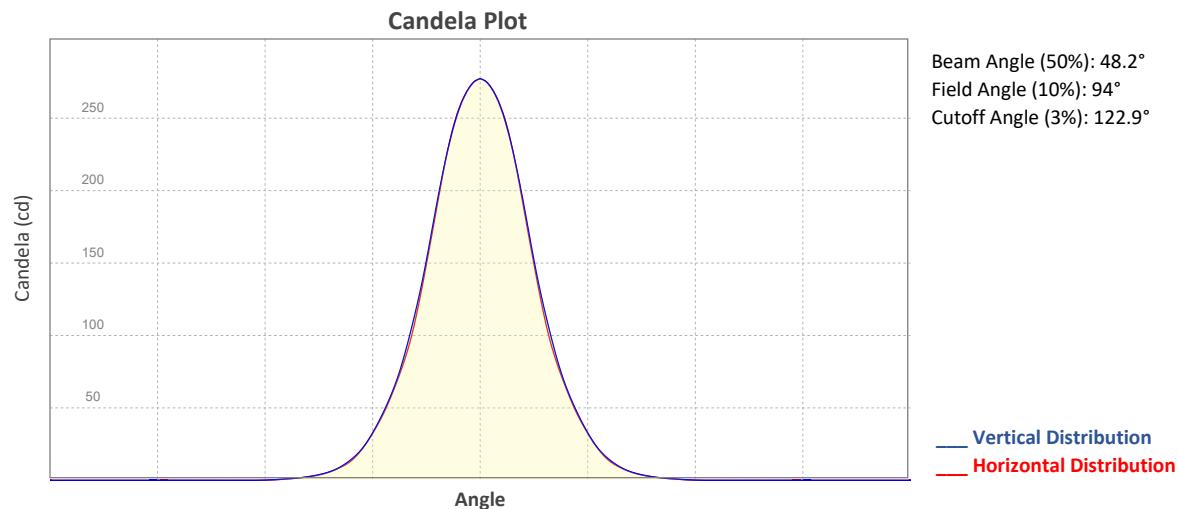


Beam Intensities from 1-20m (3.3-65.6ft)

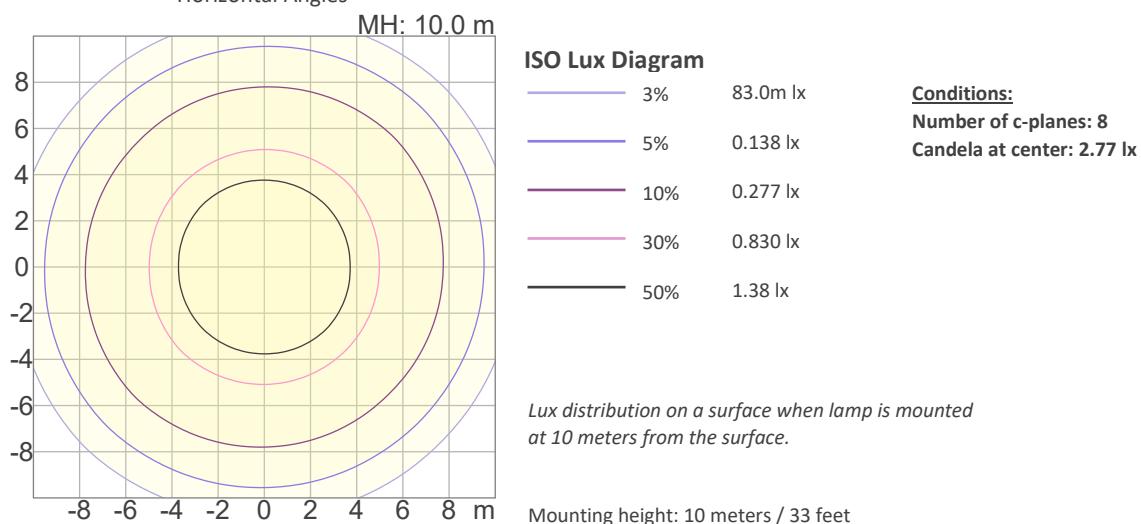
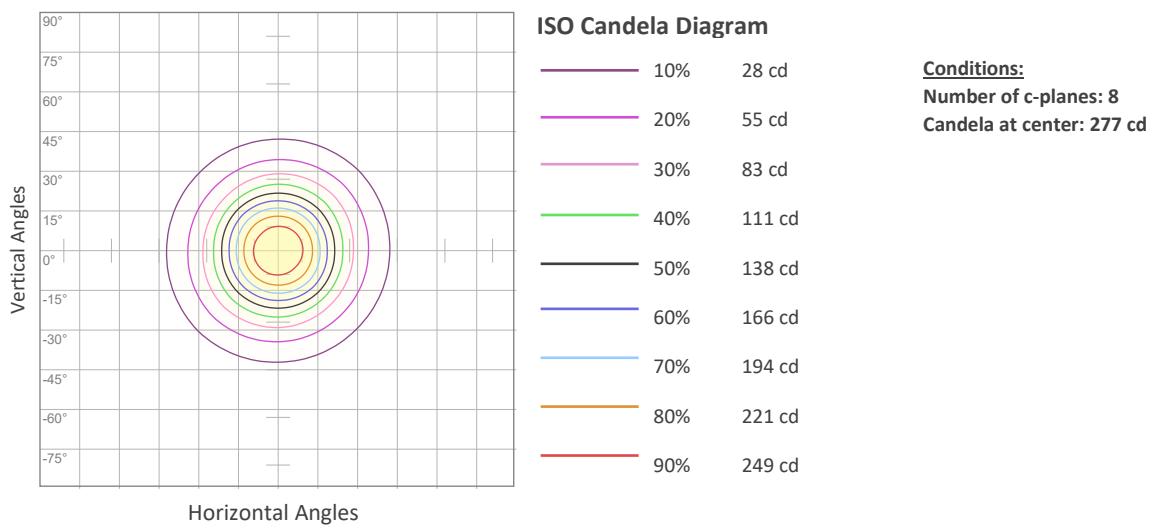
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	277	69	31	17	11	8	6	4	3	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	2	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	26	6	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 4500K



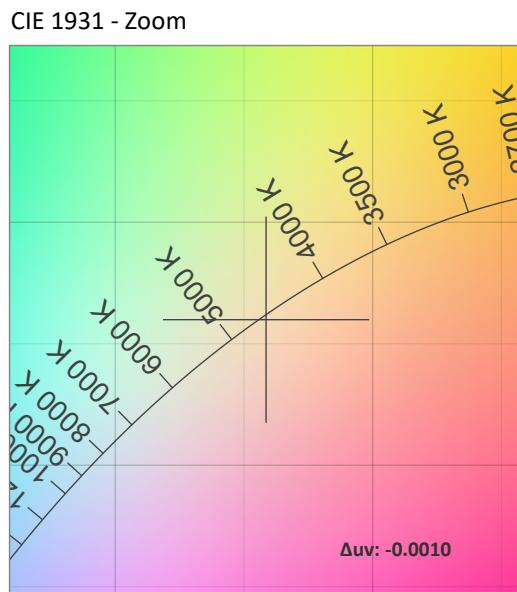
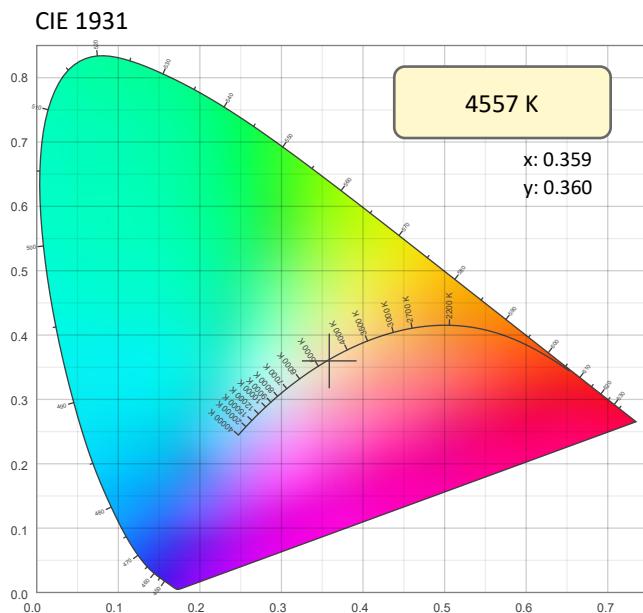
ISO Diagrams



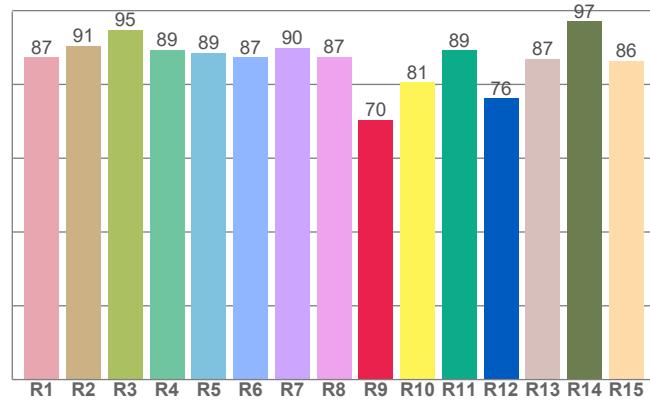
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 4500K

Chromaticity



CRI: 89.4 (R1-R8)

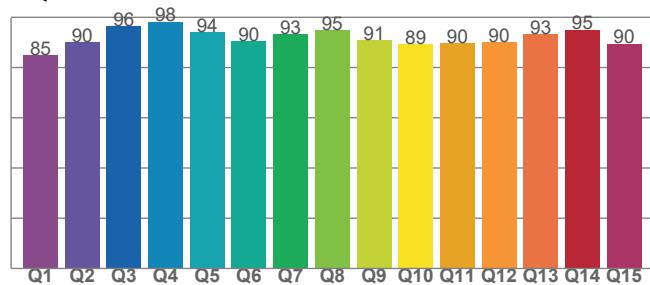


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4557 K	0.359	0.360

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0010	0.360	0.217

CQS: 91.3



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
89.4	70.4	91.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
96	87.9	98.4

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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 4500K

TM-30 Details

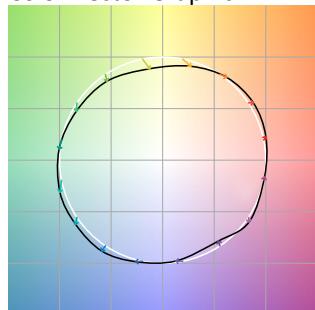
Rf 87.9

Fidelity Index
(Rg)

Rg 98.4

Gammut Index (Rg)

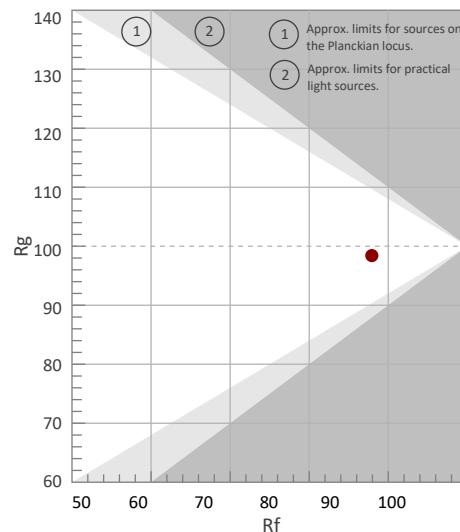
Color Vector Graphic



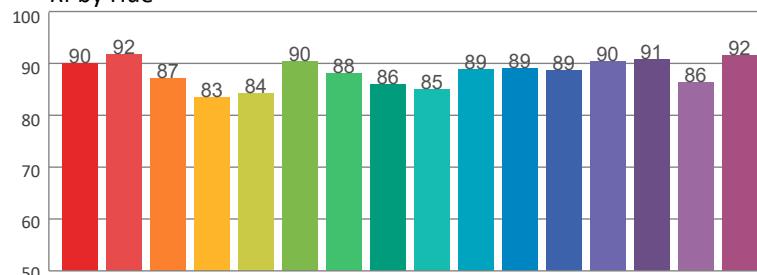
Color Distortion Graphic



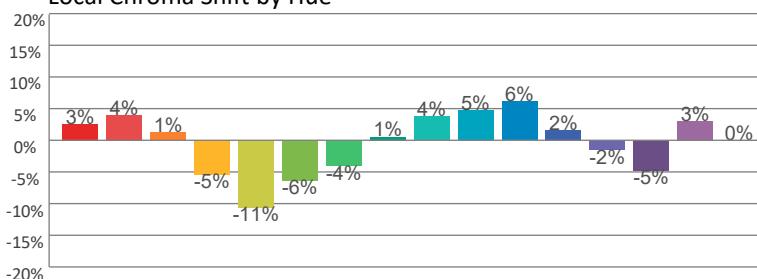
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	90	3%	3%
2	92	4%	-3%
3	87	1%	-7%
4	83	-5%	-9%
5	84	-11%	-5%
6	90	-6%	2%
7	88	-4%	7%
8	86	1%	9%
9	85	4%	11%
10	89	5%	5%
11	89	6%	0%
12	89	2%	-6%
13	90	-2%	-6%
14	91	-5%	1%
15	86	3%	-3%
16	92	0%	3%



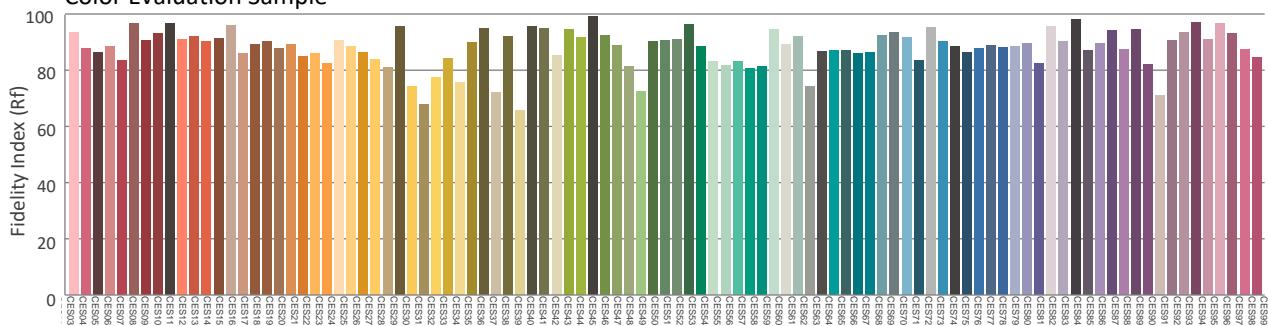
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 5000K

Report Summary

Measurements

Fixture Output: 245 lm
Fixture Peak: 291 cd
Fixture Efficacy: 14 lm/W
Intensity @ 5m: 12 lux
Color Temperature: 5174 K
CRI: 86.2 CRI R9 Value: 58.8
CQS: 90.1

TLCI: 91

TM-30 Rf: 85.2

TM-30 Rg: 97.7

Beam Angle (50%): 48.2°

Field Angle (10%): 94°

Cutoff Angle (3%): 122.8°

Conditions

AC Supply: 119 V, 60.1 Hz

Power: 19.86 W

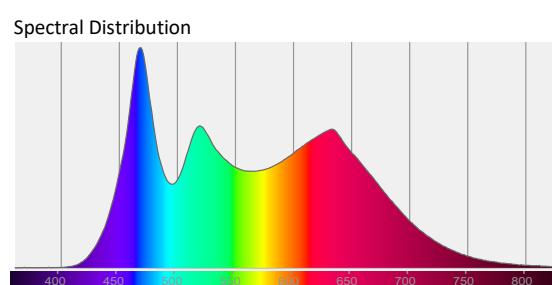
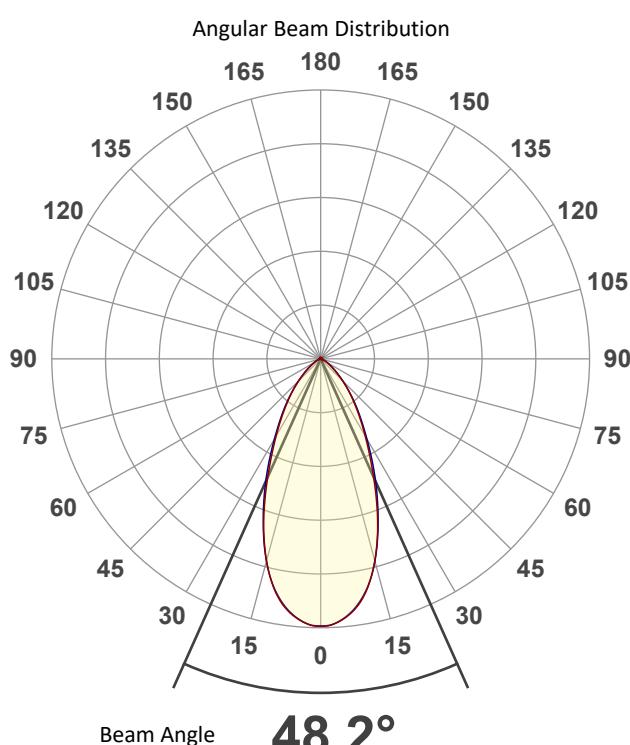
Current: 0.167 A

Power Factor: 0.86



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.341
Y: 0.348

Light Quality



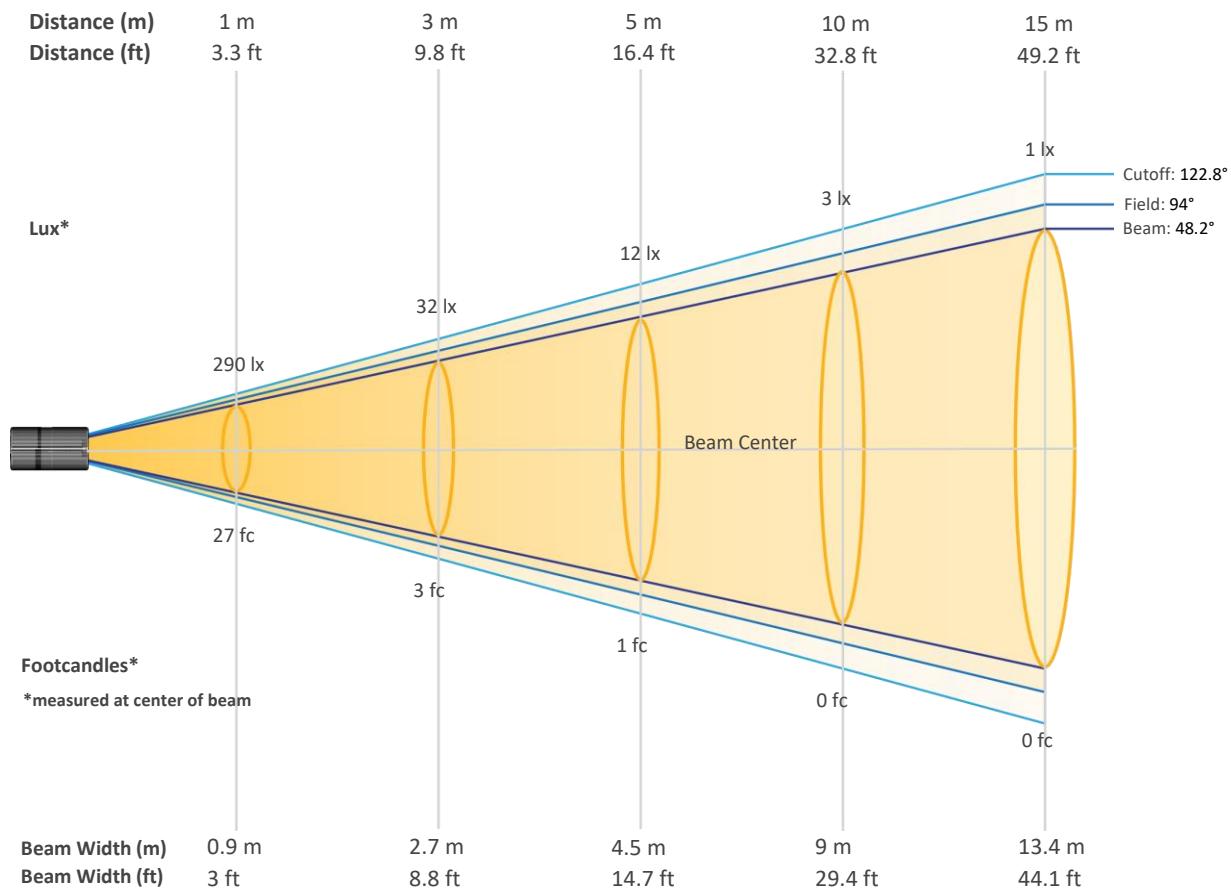
Color Temperature



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 5000K

Beam Details

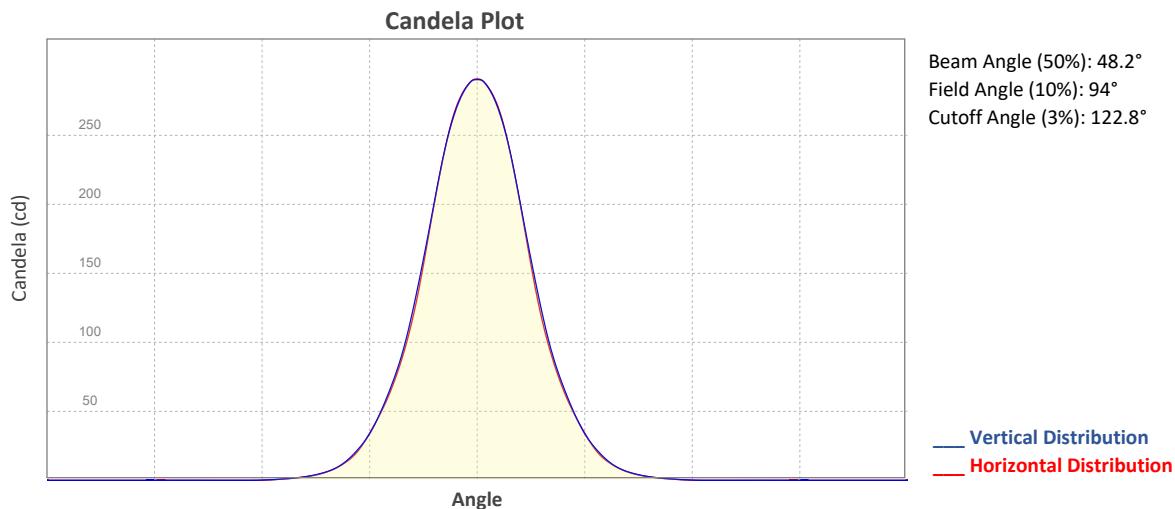


Beam Intensities from 1-20m (3.3-65.6ft)

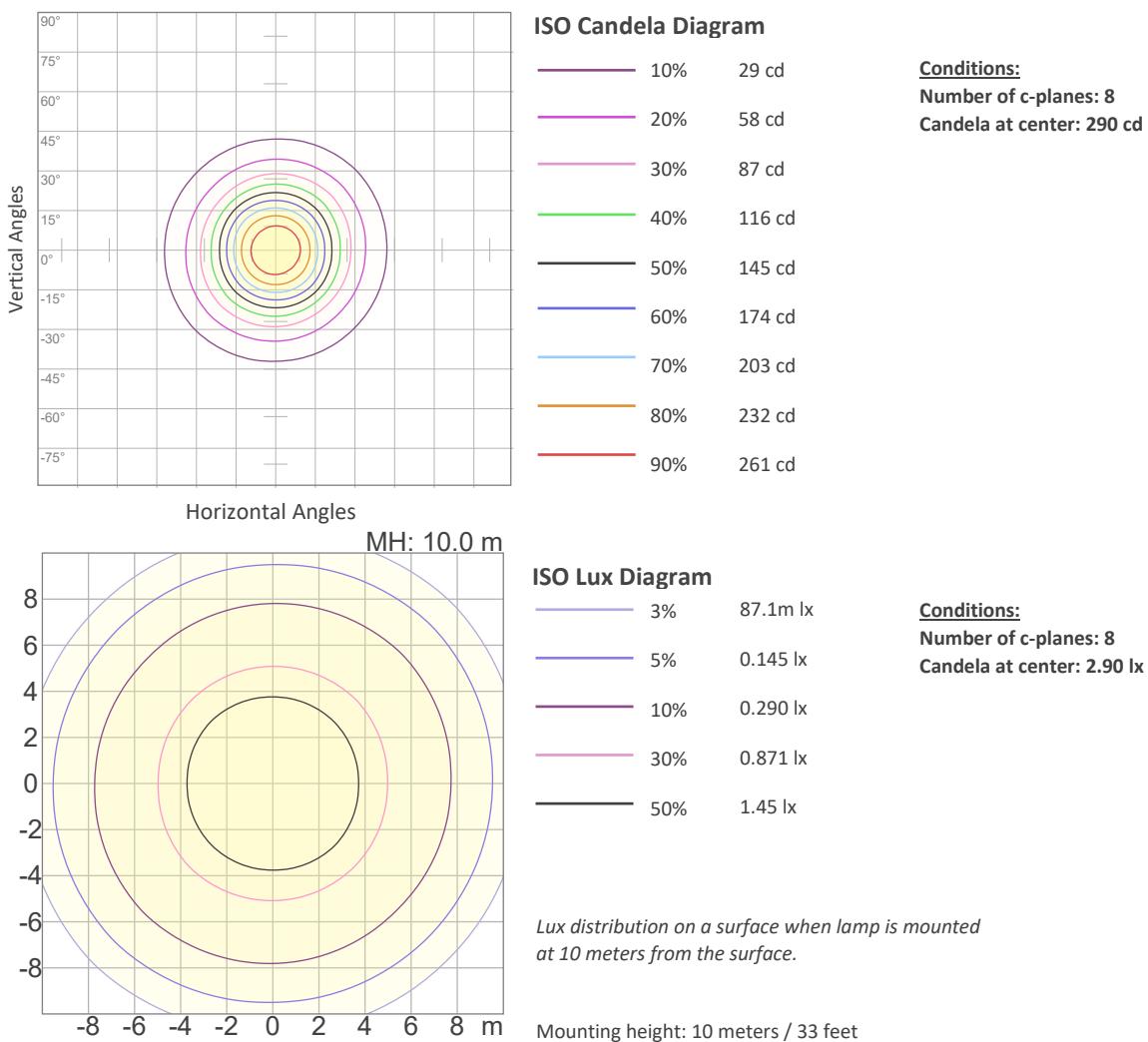
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	290	73	32	18	12	8	6	5	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	2	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	27	7	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 5000K



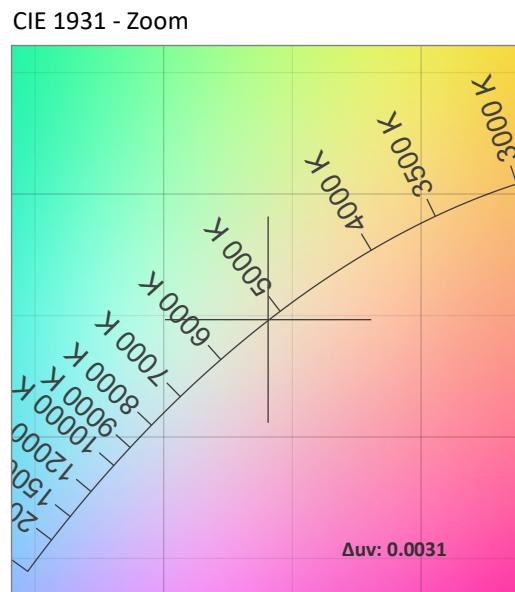
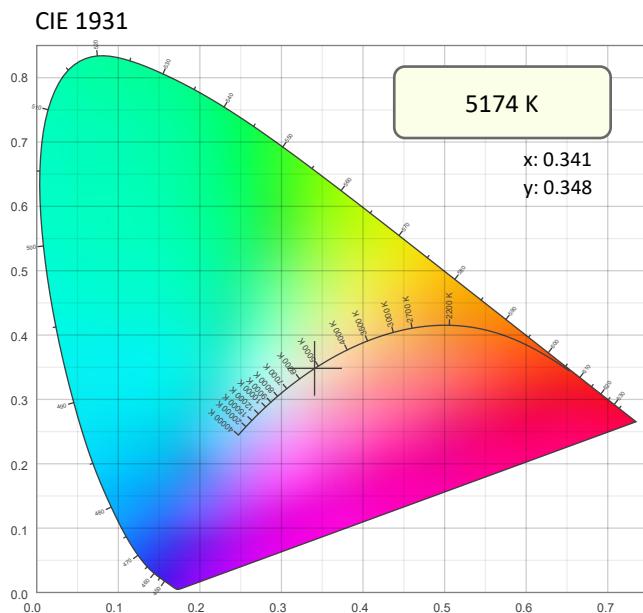
ISO Diagrams



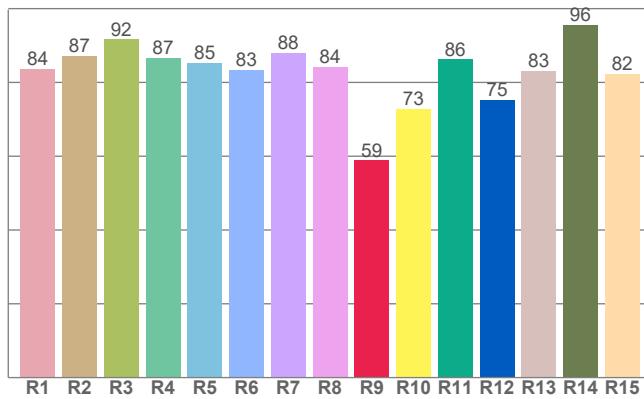
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 5000K

Chromaticity



CRI: 86.2 (R1-R8)

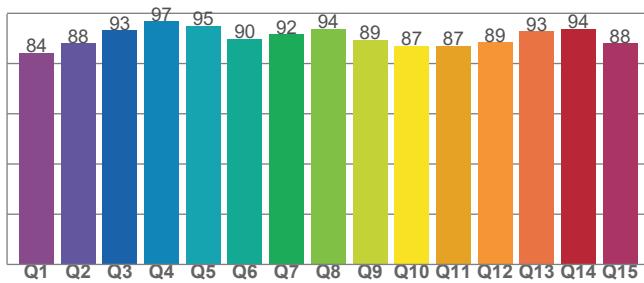


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5174 K	0.341	0.348

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0031	0.348	0.210

CQS: 90.1



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
86.2	58.8	90.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
91	85.2	97.7

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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 5000K

TM-30 Details

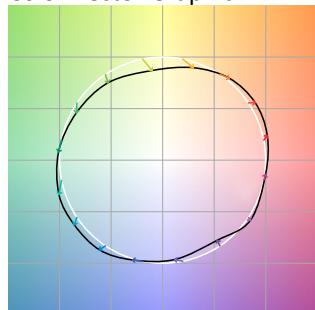
Rf 85.2

Fidelity Index
(Rg)

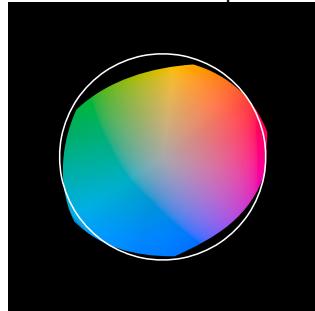
Rg 97.7

Gammut Index (Rg)

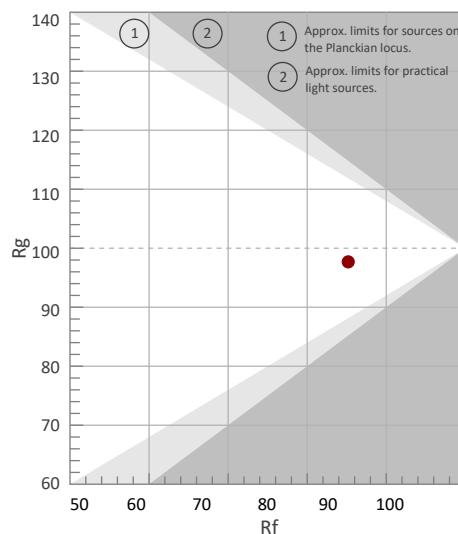
Color Vector Graphic



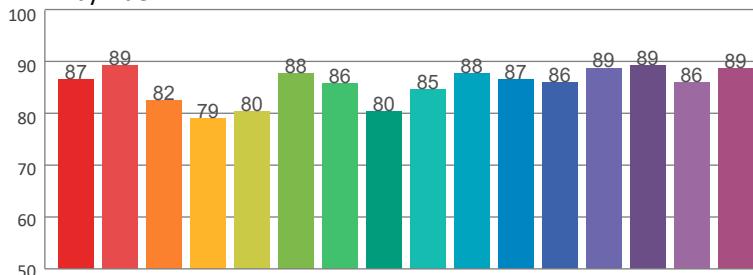
Color Distortion Graphic



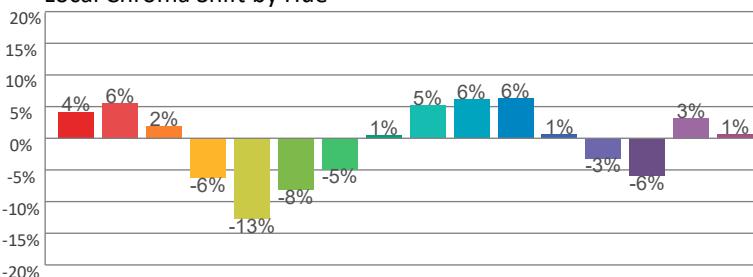
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	87	4%	4%
2	89	6%	-3%
3	82	2%	-10%
4	79	-6%	-12%
5	80	-13%	-7%
6	88	-8%	2%
7	86	-5%	8%
8	80	1%	12%
9	85	5%	13%
10	88	6%	4%
11	87	6%	-3%
12	86	1%	-10%
13	89	-3%	-7%
14	89	-6%	1%
15	86	3%	-1%
16	89	1%	6%



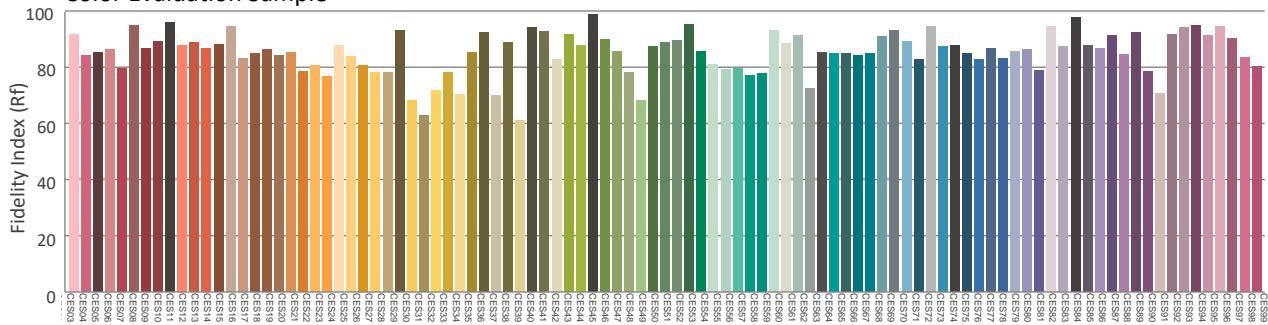
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 5600K

Report Summary

Measurements

Fixture Output: 257 lm
Fixture Peak: 304 cd
Fixture Efficacy: 15 lm/W
Intensity @ 5m: 12 lux
Color Temperature: 5942 K
CRI: 82.6 CRI R9 Value: 44.8
CQS: 86.5

TLCI: 85
TM-30 Rf: 81.3
TM-30 Rg: 96.3
Beam Angle (50%): 48.3°
Field Angle (10%): 94.1°
Cutoff Angle (3%): 123°

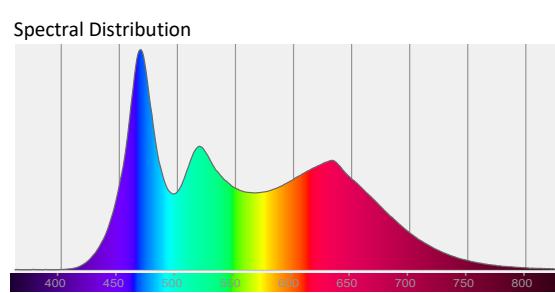
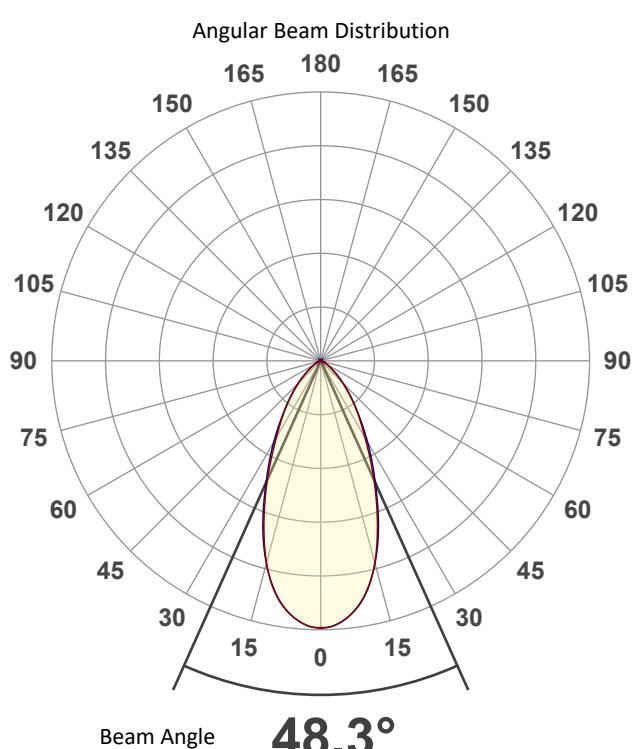
Conditions

AC Supply: 119 V, 60 Hz
Power: 20.22 W
Current: 0.170 A
Power Factor: 0.87

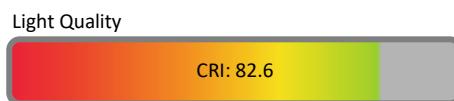


This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



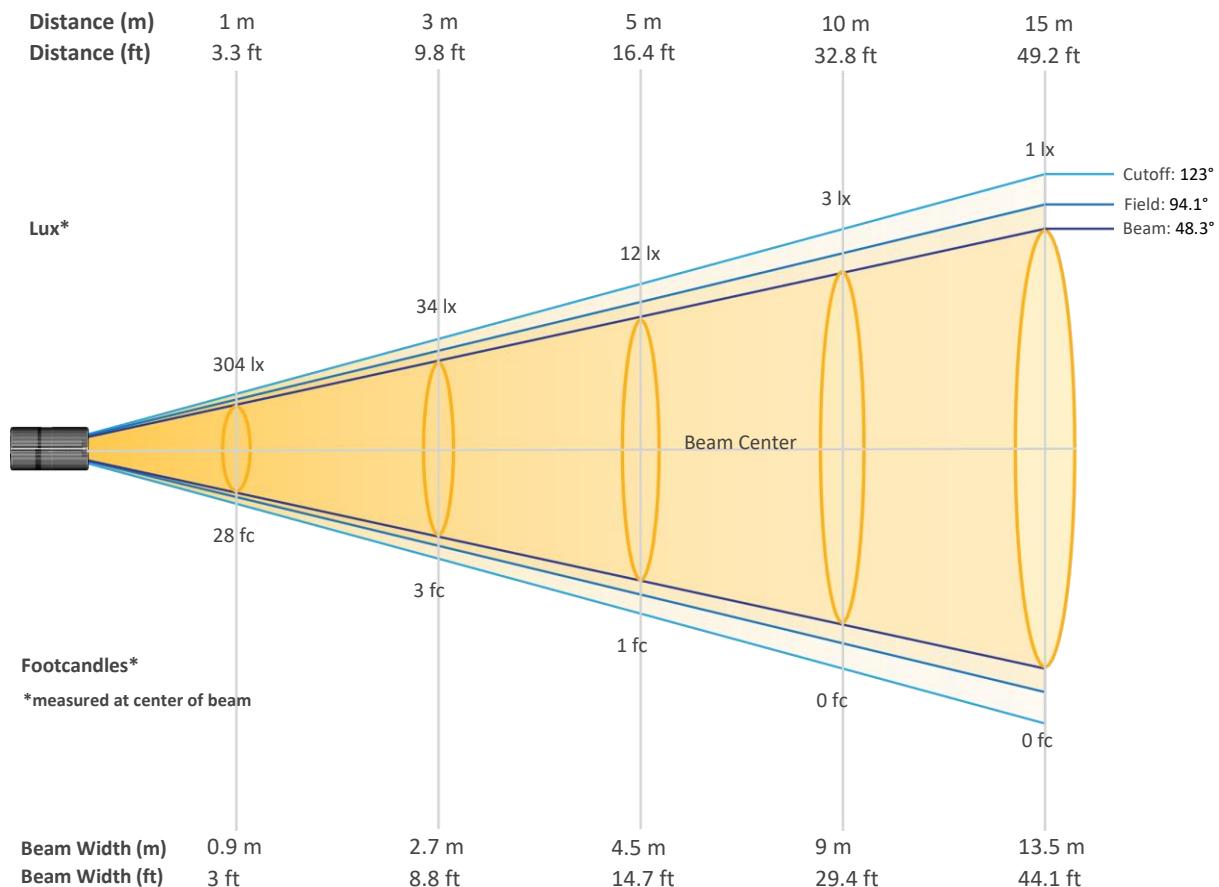
Tested Color (CIE 1931):
X: 0.323
Y: 0.335



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 5600K

Beam Details

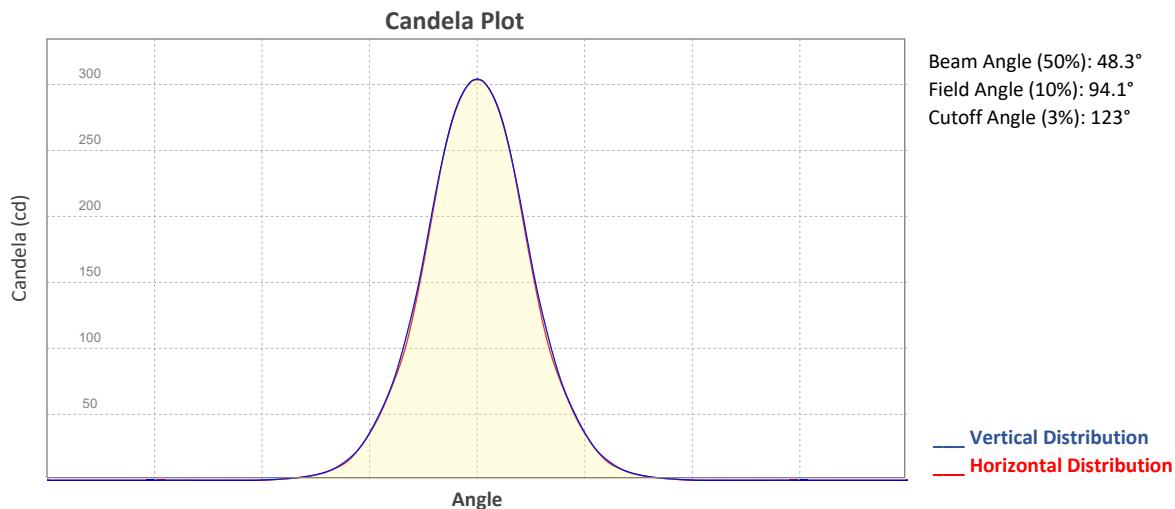


Beam Intensities from 1-20m (3.3-65.6ft)

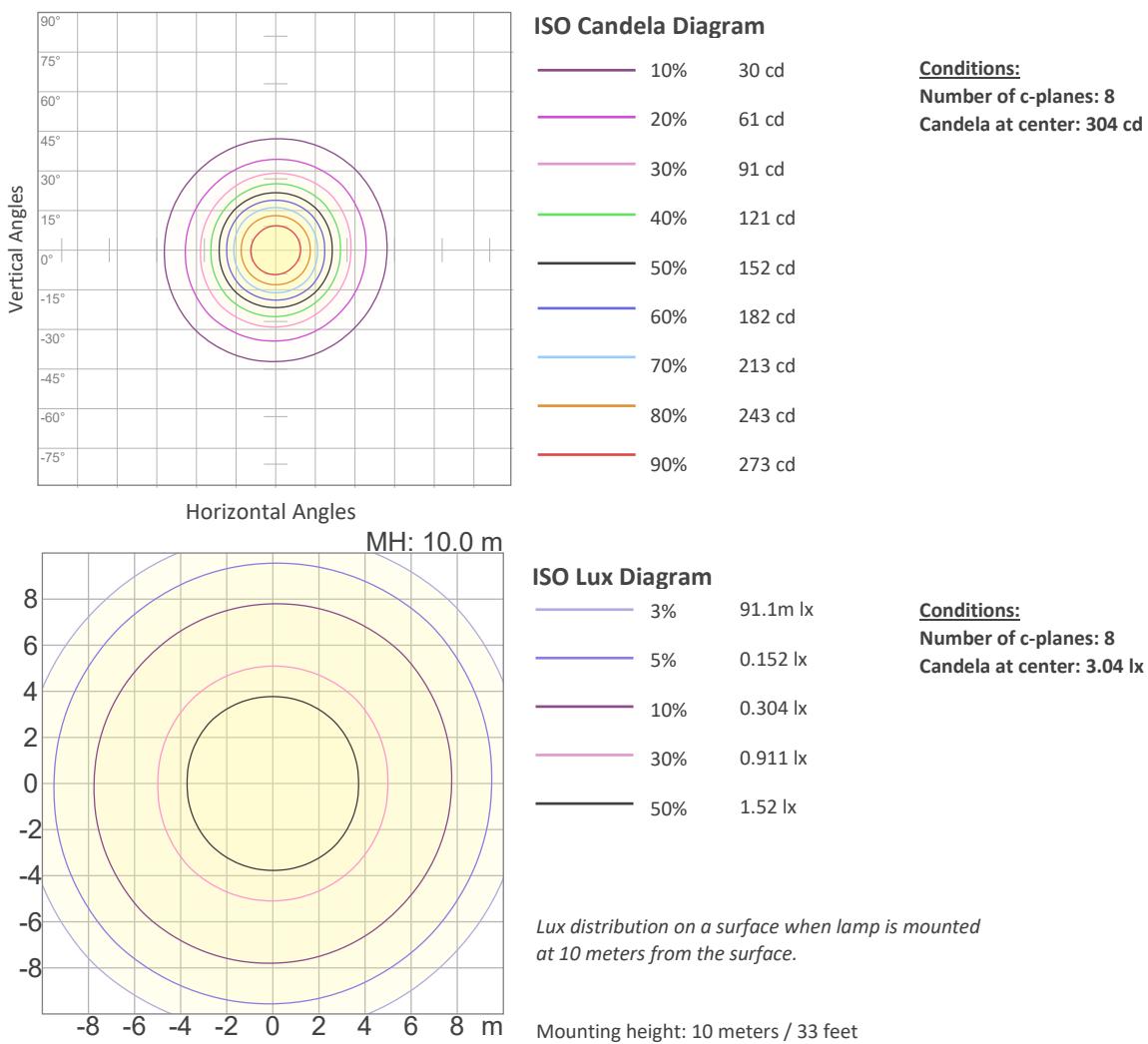
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	304	76	34	19	12	8	6	5	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	2	2	2	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	28	7	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 5600K



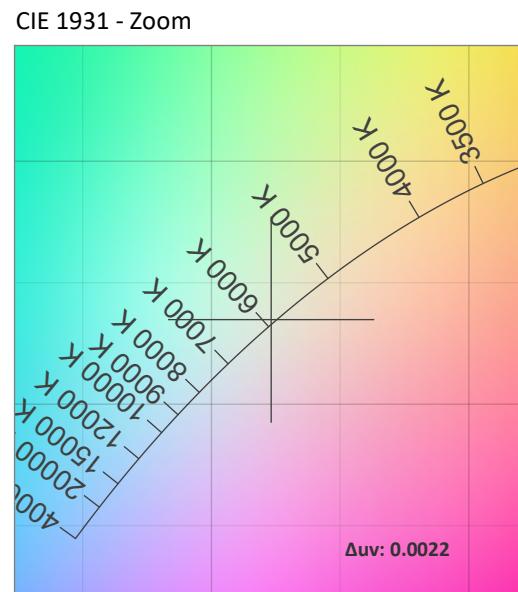
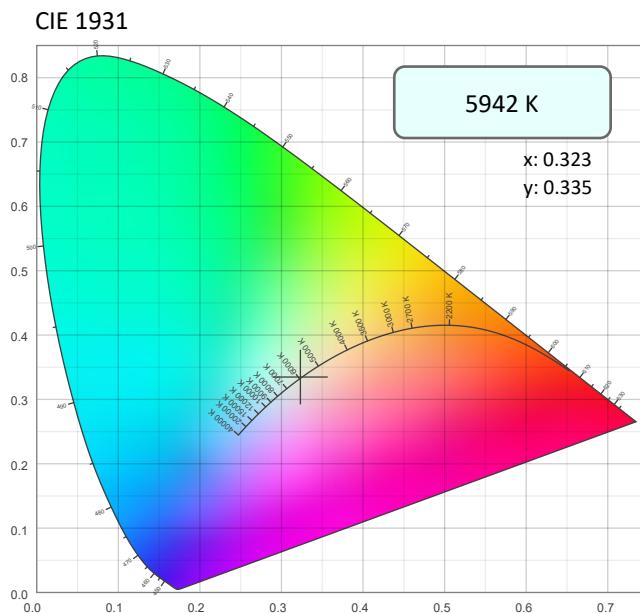
ISO Diagrams



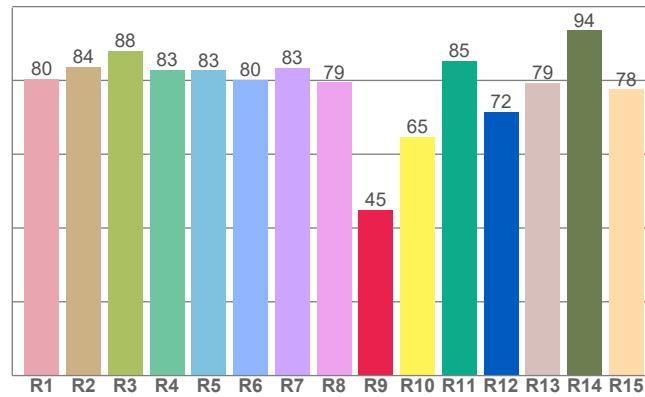
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 5600K

Chromaticity



CRI: 82.6 (R1-R8)

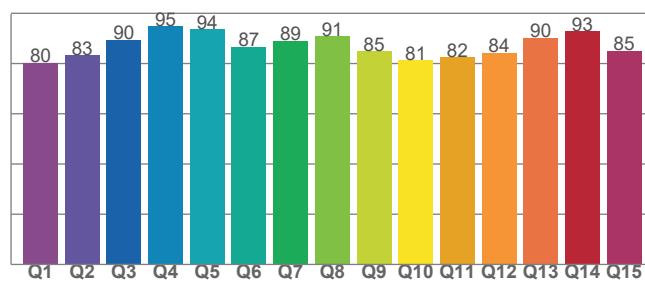


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5942 K	0.323	0.335

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0022	0.335	0.203

CQS: 86.5



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
82.6	44.8	86.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
85	81.3	96.3

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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 5600K

TM-30 Details

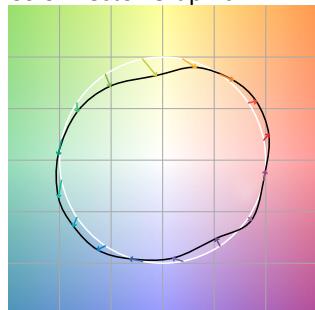
Rf 81.3

Fidelity Index
(Rg)

Rg 96.3

Gammut Index (Rg)

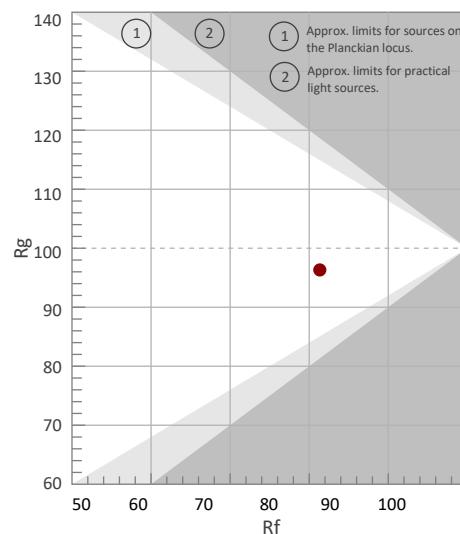
Color Vector Graphic



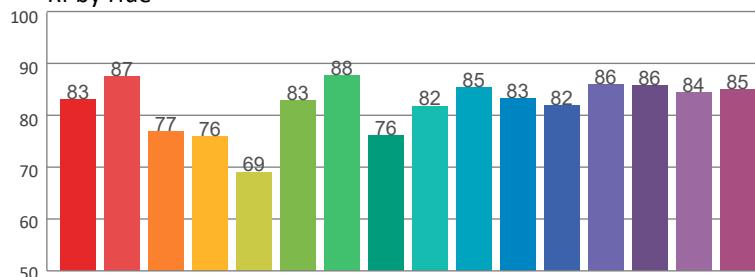
Color Distortion Graphic



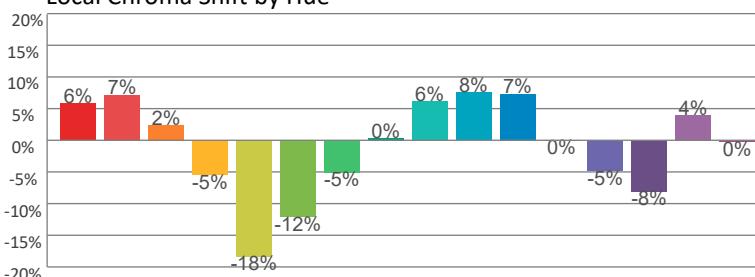
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	83	6%	5%
2	87	7%	-3%
3	77	2%	-13%
4	76	-5%	-14%
5	69	-18%	-10%
6	83	-12%	2%
7	88	-5%	7%
8	76	0%	15%
9	82	6%	15%
10	85	8%	5%
11	83	7%	-4%
12	82	0%	-12%
13	86	-5%	-9%
14	86	-8%	1%
15	84	4%	0%
16	85	0%	9%



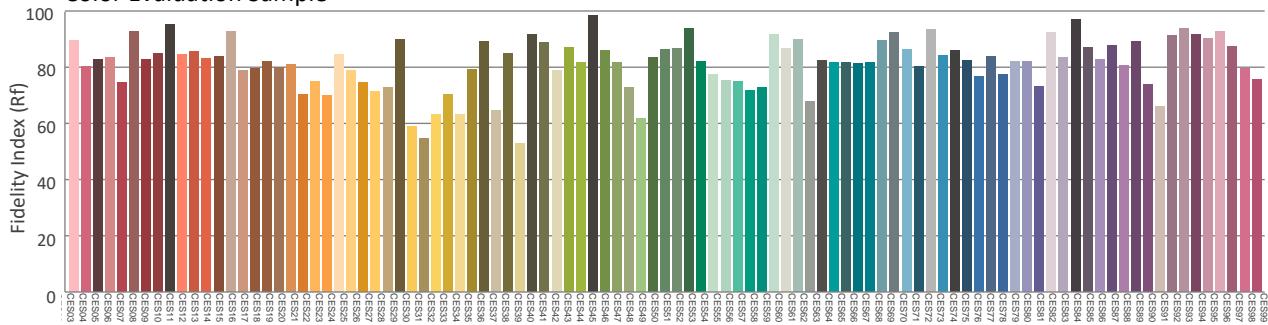
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 6000K

Report Summary

Measurements

Fixture Output: 261 lm
Fixture Peak: 309 cd
Fixture Efficacy: 15 lm/W
Intensity @ 5m: 12 lux
Color Temperature: 6409 K
CRI: 80.5 CRI R9 Value: 37.5
CQS: 84.9

TLCI: 83
TM-30 Rf: 79.4
TM-30 Rg: 95.6
Beam Angle (50%): 48.4°
Field Angle (10%): 94.1°
Cutoff Angle (3%): 123°

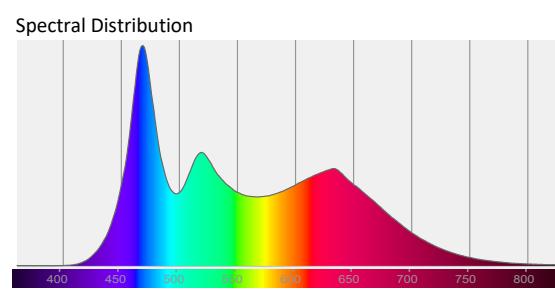
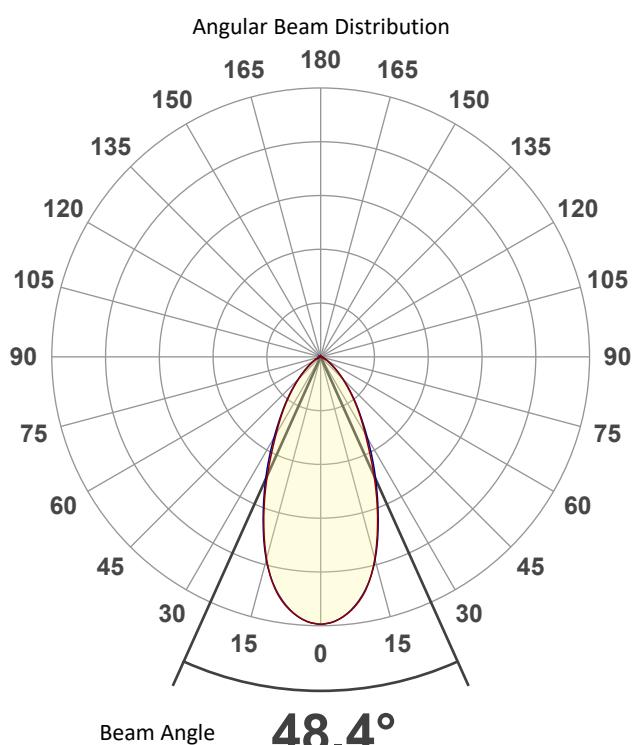
Conditions

AC Supply: 119 V, 60 Hz
Power: 20.38 W
Current: 0.172 A
Power Factor: 0.87



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



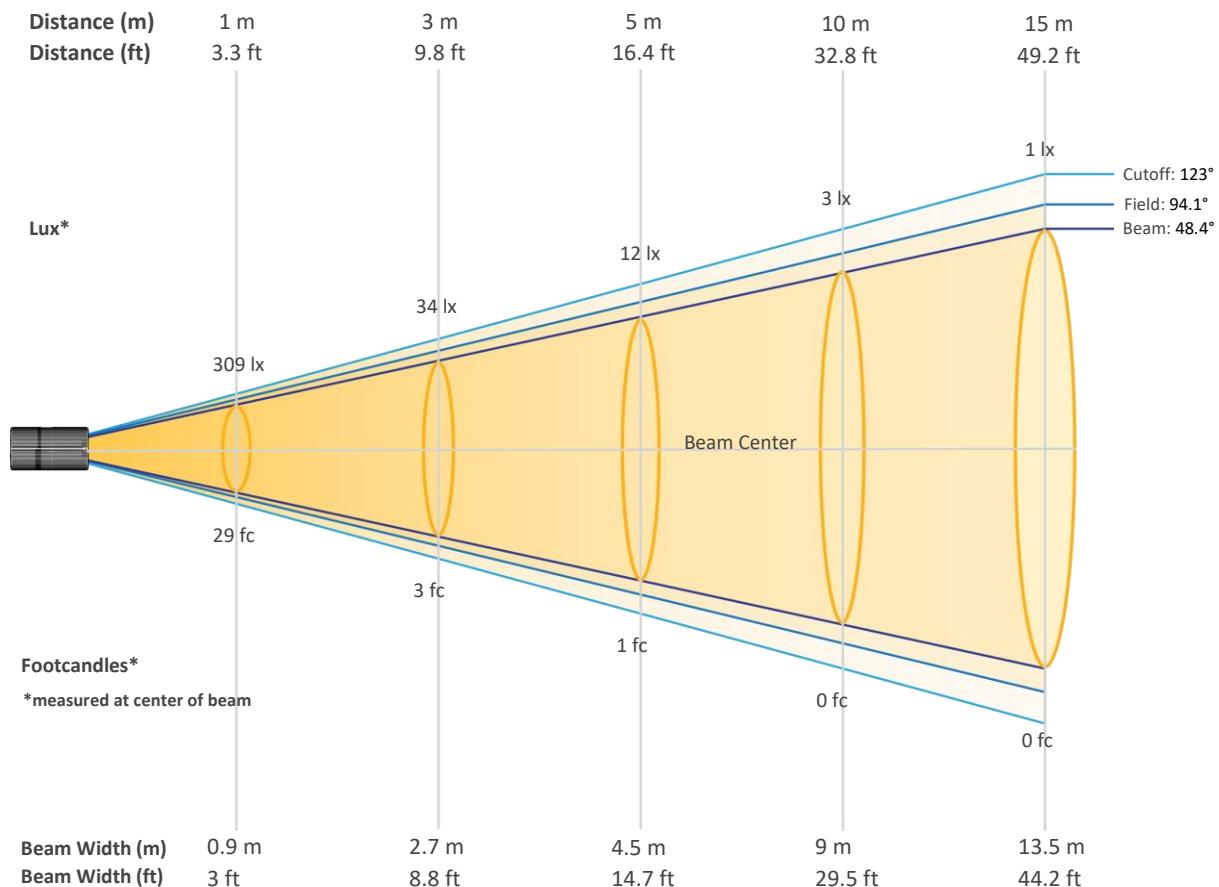
Tested Color (CIE 1931):
X: 0.315
Y: 0.327



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 6000K

Beam Details

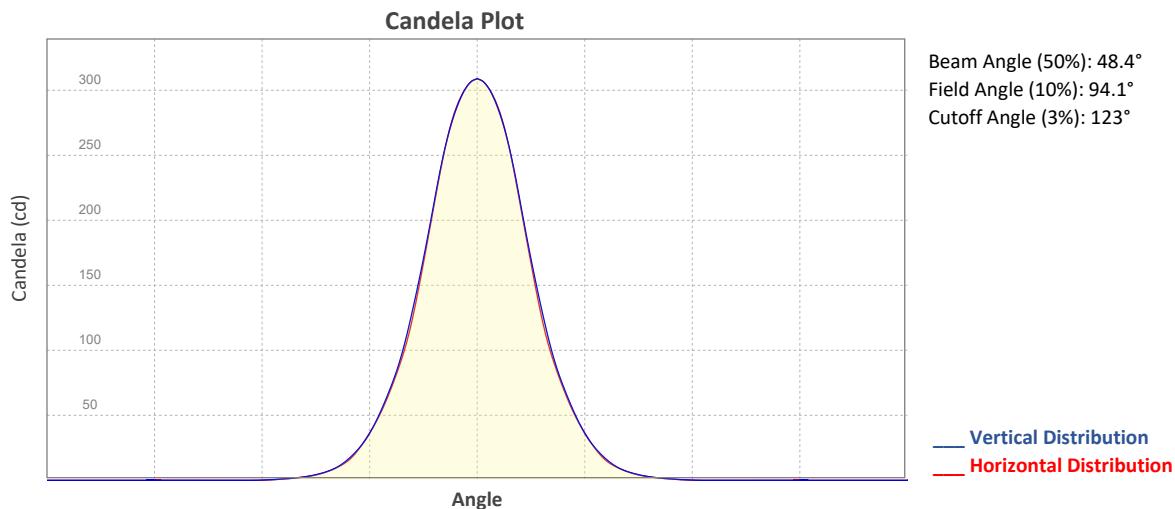


Beam Intensities from 1-20m (3.3-65.6ft)

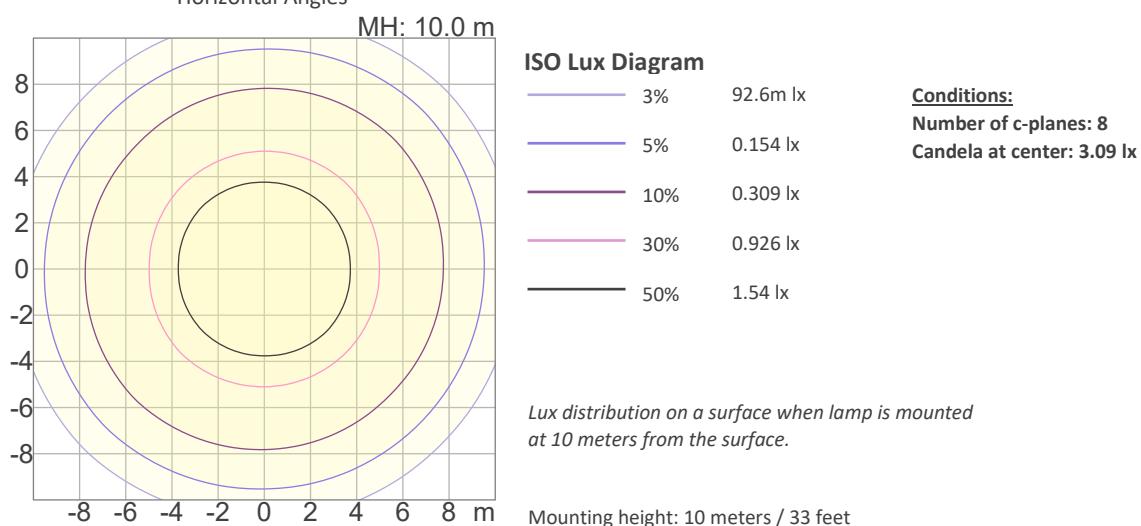
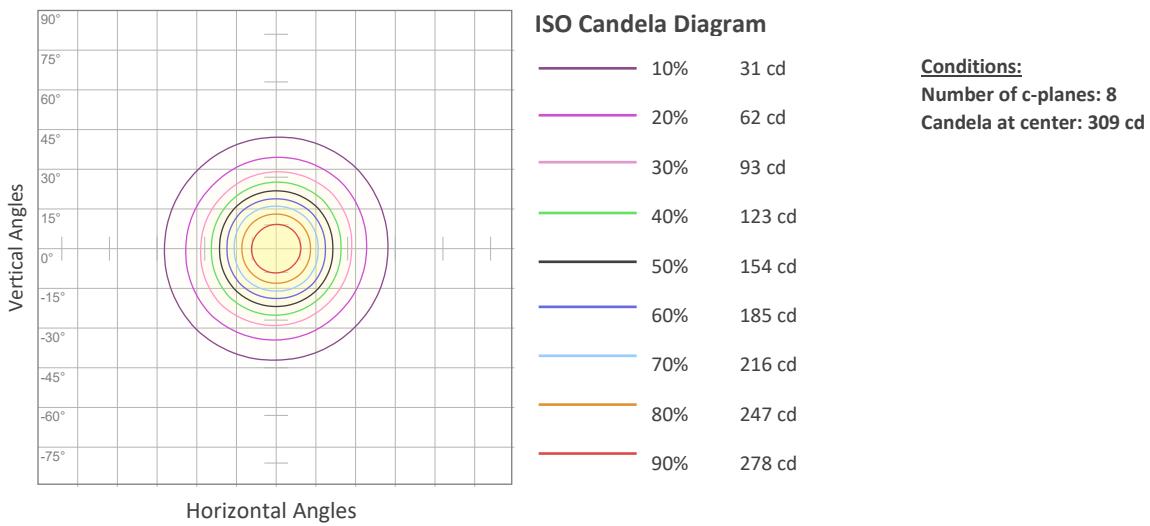
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	309	77	34	19	12	9	6	5	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	2	2	2	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	29	7	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 6000K



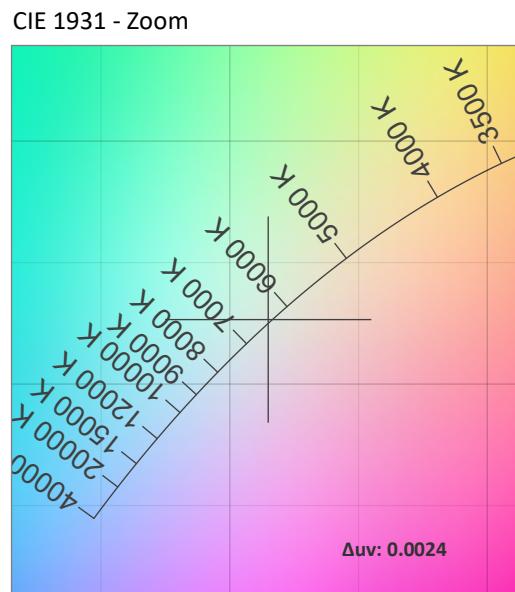
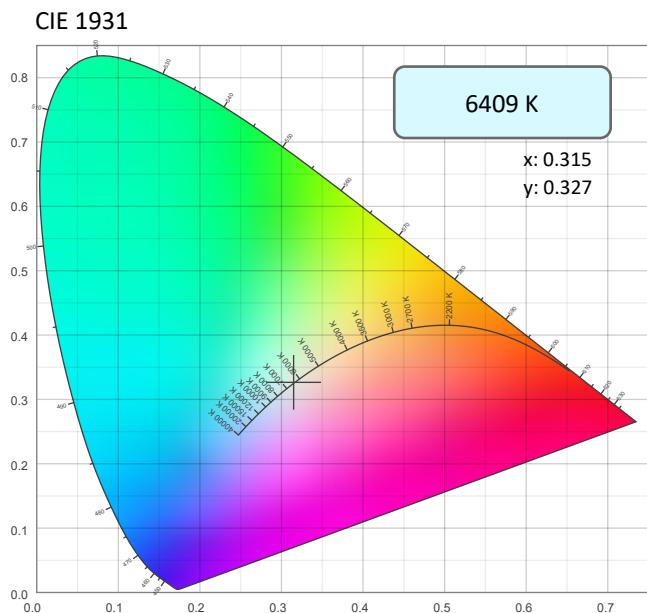
ISO Diagrams



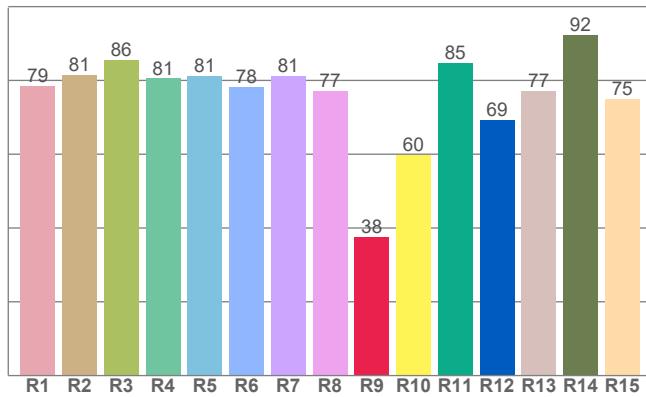
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 6000K

Chromaticity



CRI: 80.5 (R1-R8)

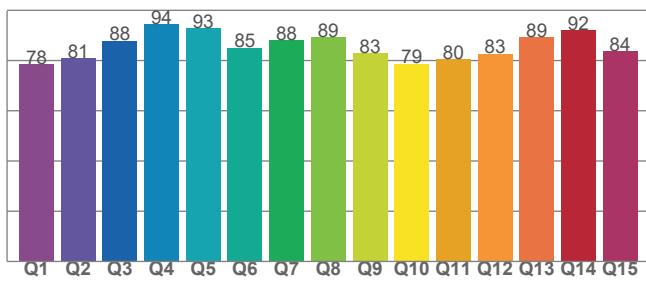


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6409 K	0.315	0.327

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0024	0.327	0.200

CQS: 84.9



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
80.5	37.5	84.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
83	79.4	95.6

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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 6000K

TM-30 Details

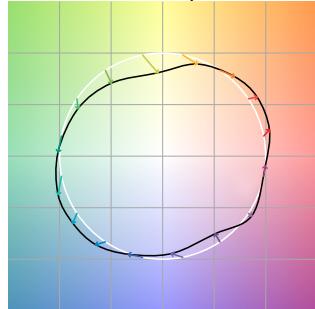
Rf 79.4

Fidelity Index
(Rg)

Rg 95.6

Gammut Index (Rg)

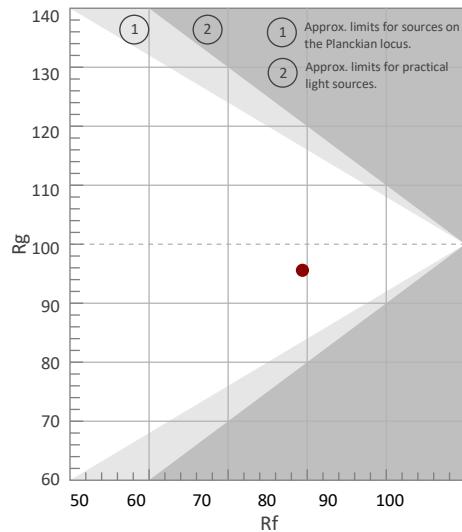
Color Vector Graphic



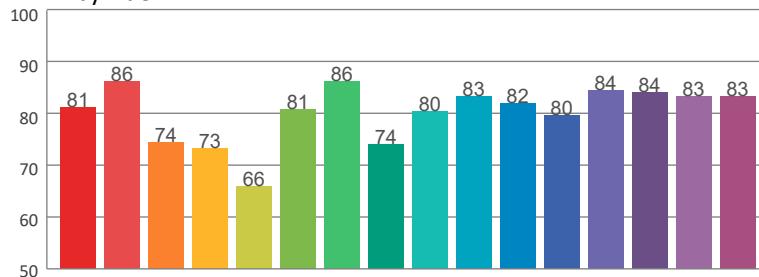
Color Distortion Graphic



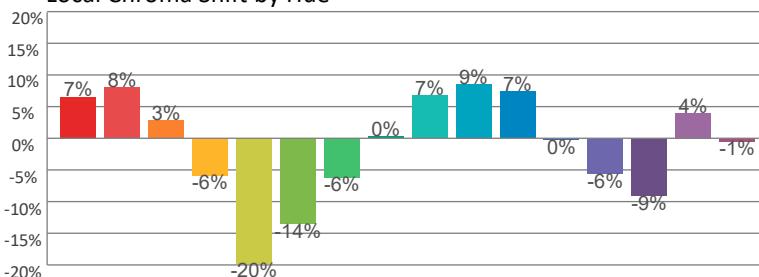
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	81	7%	5%
2	86	8%	-3%
3	74	3%	-15%
4	73	-6%	-15%
5	66	-20%	-11%
6	81	-14%	2%
7	86	-6%	7%
8	74	0%	16%
9	80	7%	17%
10	83	9%	6%
11	82	7%	-6%
12	80	0%	-14%
13	84	-6%	-10%
14	84	-9%	0%
15	83	4%	0%
16	83	-1%	10%



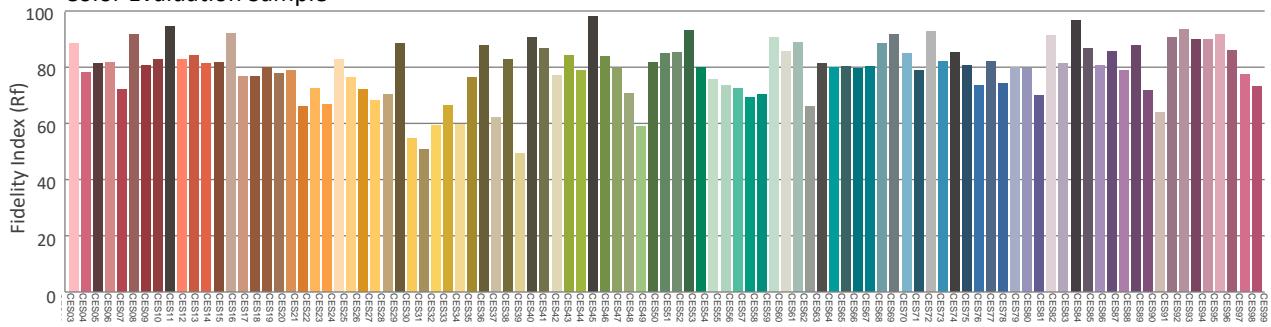
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 6500K

Report Summary

Measurements

Fixture Output: 264 lm
Fixture Peak: 312 cd
Fixture Efficacy: 15 lm/W
Intensity @ 5m: 12 lux
Color Temperature: 6939 K
CRI: 77.9 CRI R9 Value: 28.4
CQS: 83.4

TLCI: 80
TM-30 Rf: 77.3
TM-30 Rg: 95.2
Beam Angle (50%): 48.4°
Field Angle (10%): 94.1°
Cutoff Angle (3%): 123.1°

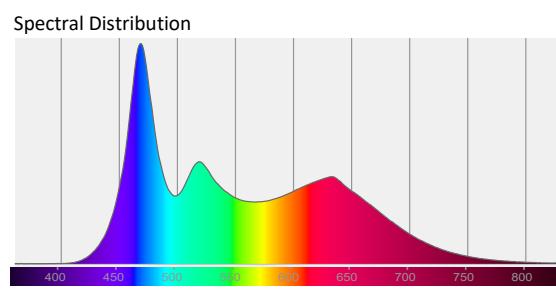
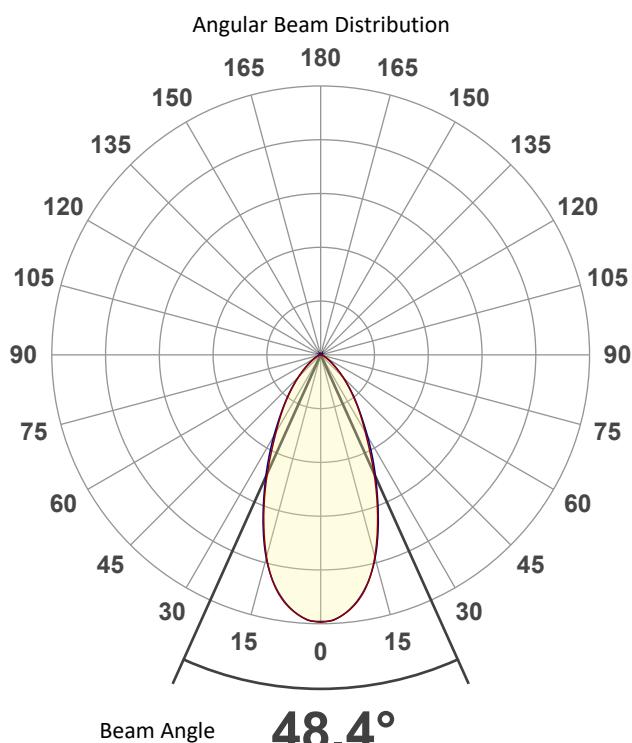
Conditions

AC Supply: 119 V, 60 Hz
Power: 20.54 W
Current: 0.173 A
Power Factor: 0.87



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



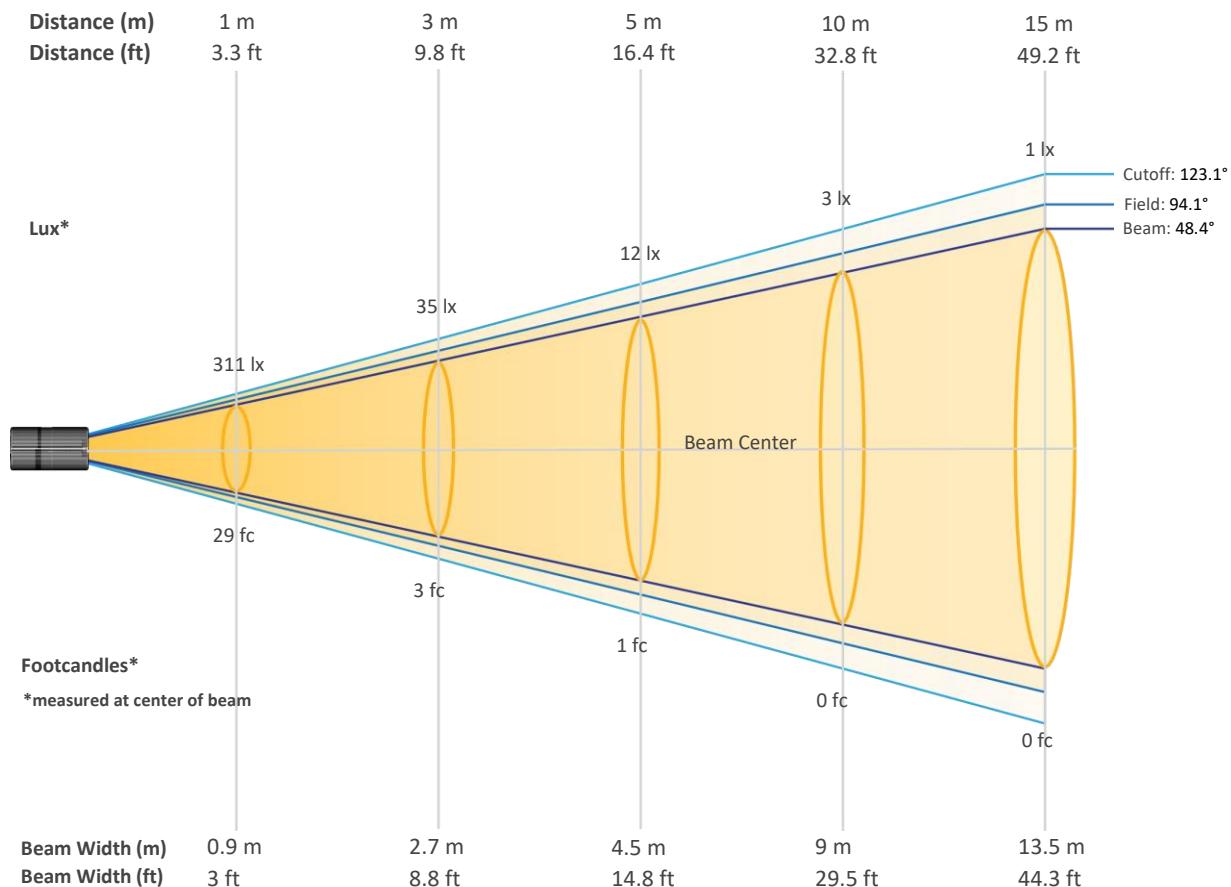
Tested Color (CIE 1931):
X: 0.307
Y: 0.317



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 6500K

Beam Details

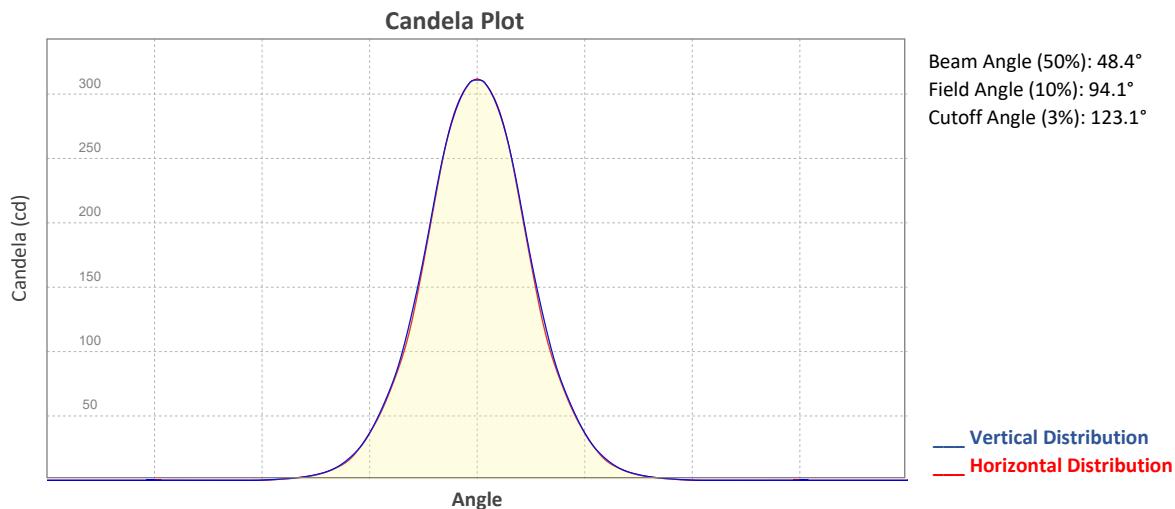


Beam Intensities from 1-20m (3.3-65.6ft)

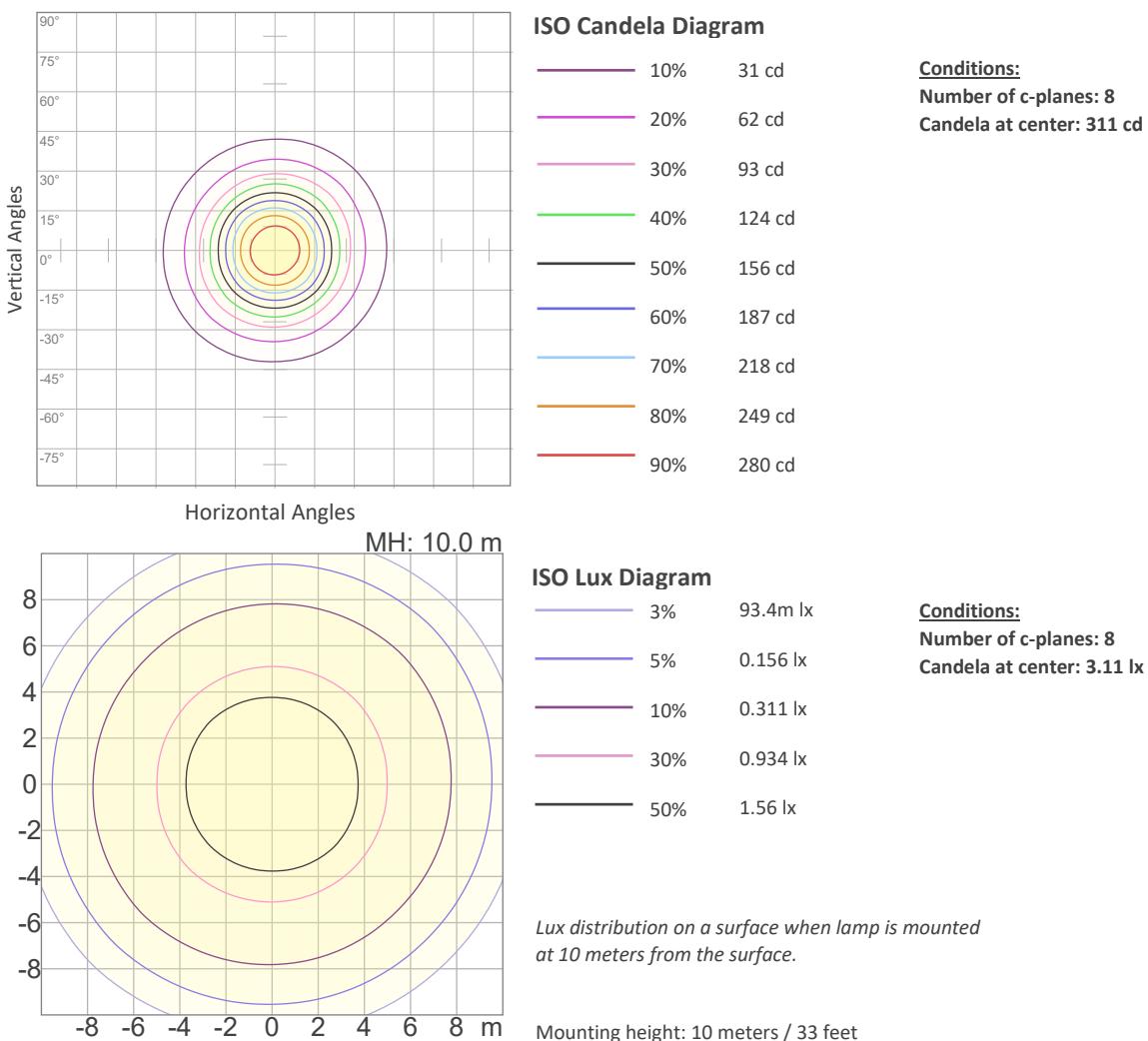
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	311	78	35	19	12	9	6	5	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	2	2	2	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	29	7	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 6500K



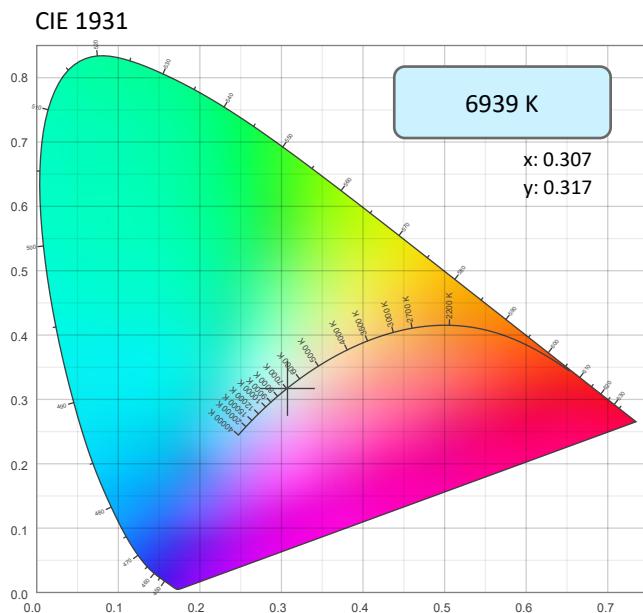
ISO Diagrams



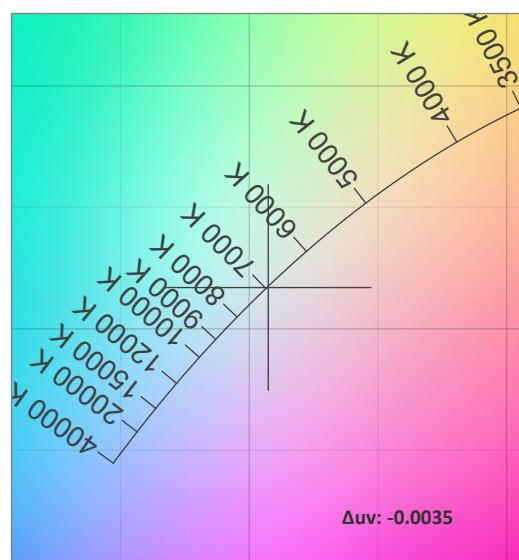
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 6500K

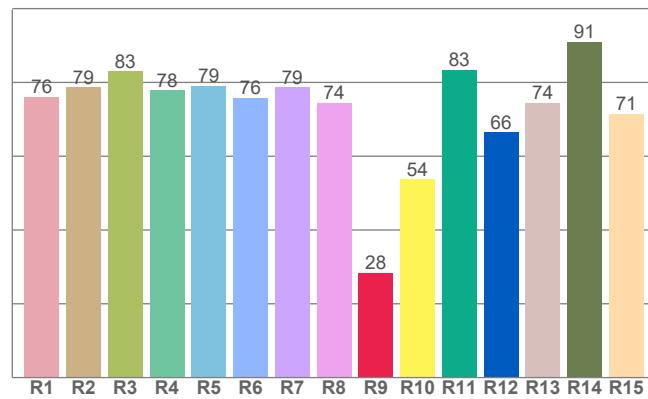
Chromaticity



CIE 1931 - Zoom



CRI: 77.9 (R1-R8)

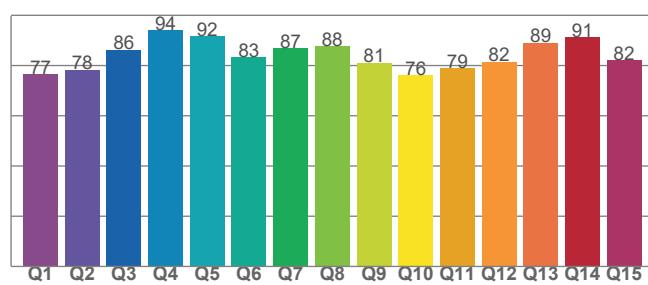


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6939 K	0.307	0.317

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0035	0.317	0.199

CQS: 83.4



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
77.9	28.4	83.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
80	77.3	95.2

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 6500K

TM-30 Details

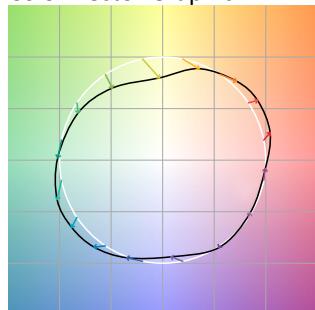
Rf 77.3

Fidelity Index
(Rg)

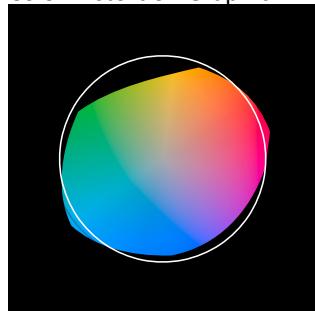
Rg 95.2

Gammut Index (Rg)

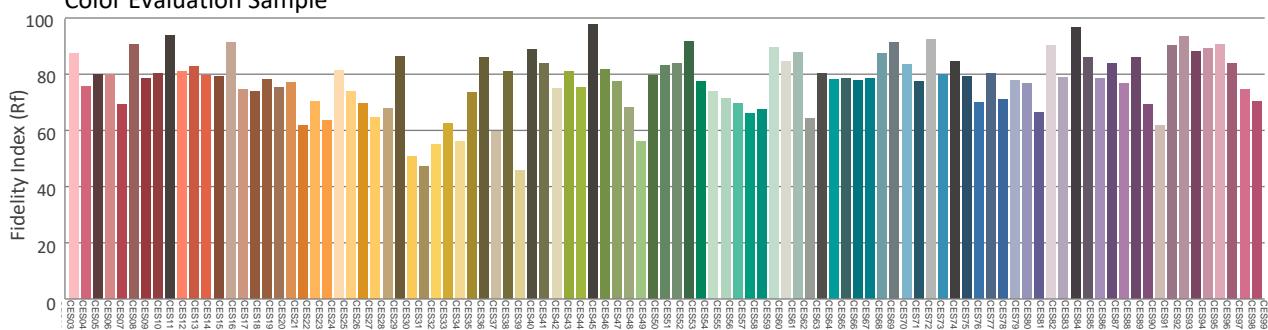
Color Vector Graphic



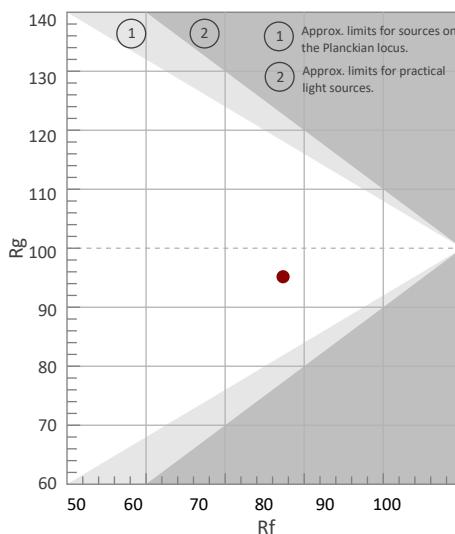
Color Distortion Graphic



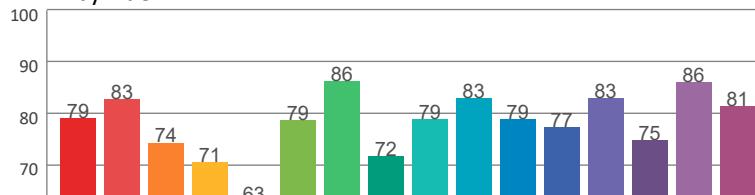
Color Evaluation Sample



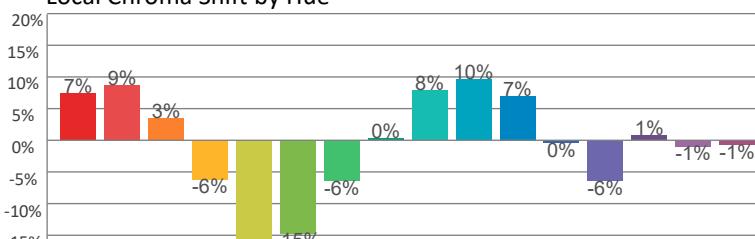
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	79	7%	6%
2	83	9%	-3%
3	74	3%	-17%
4	71	-6%	-17%
5	63	-21%	-13%
6	79	-15%	2%
7	86	-6%	7%
8	72	0%	17%
9	79	8%	17%
10	83	10%	5%
11	79	7%	-8%
12	77	0%	-16%
13	83	-6%	-10%
14	75	1%	-2%
15	86	-1%	5%
16	81	-1%	11%



Rf by Hue



Local Chroma Shift by Hue



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 7000K

Report Summary

Measurements

Fixture Output: 271 lm
Fixture Peak: 319 cd
Fixture Efficacy: 15 lm/W
Intensity @ 5m: 13 lux
Color Temperature: 7314 K
CRI: 76.4 CRI R9 Value: 20.9
CQS: 82.0

TLCI: 78

TM-30 Rf: 75.9

TM-30 Rg: 94.5

Beam Angle (50%): 48.5°

Field Angle (10%): 94.1°

Cutoff Angle (3%): 123°

Conditions

AC Supply: 118 V, 60 Hz

Power: 20.78 W

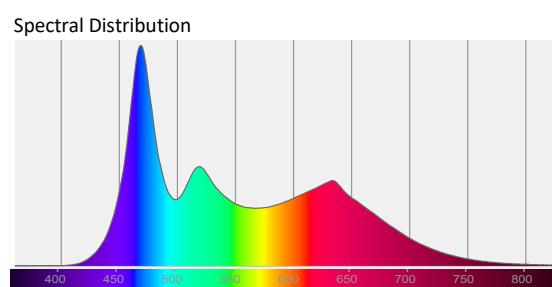
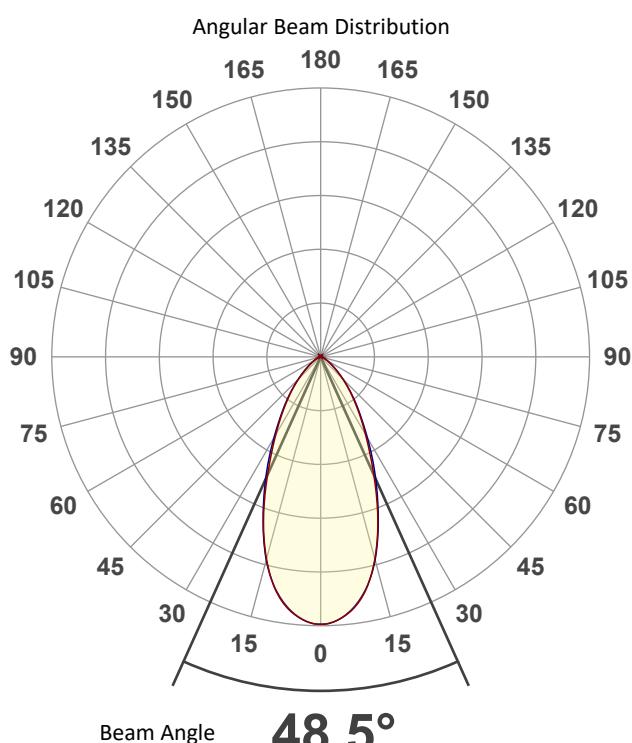
Current: 0.175 A

Power Factor: 0.88



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.303
Y: 0.313

Light Quality



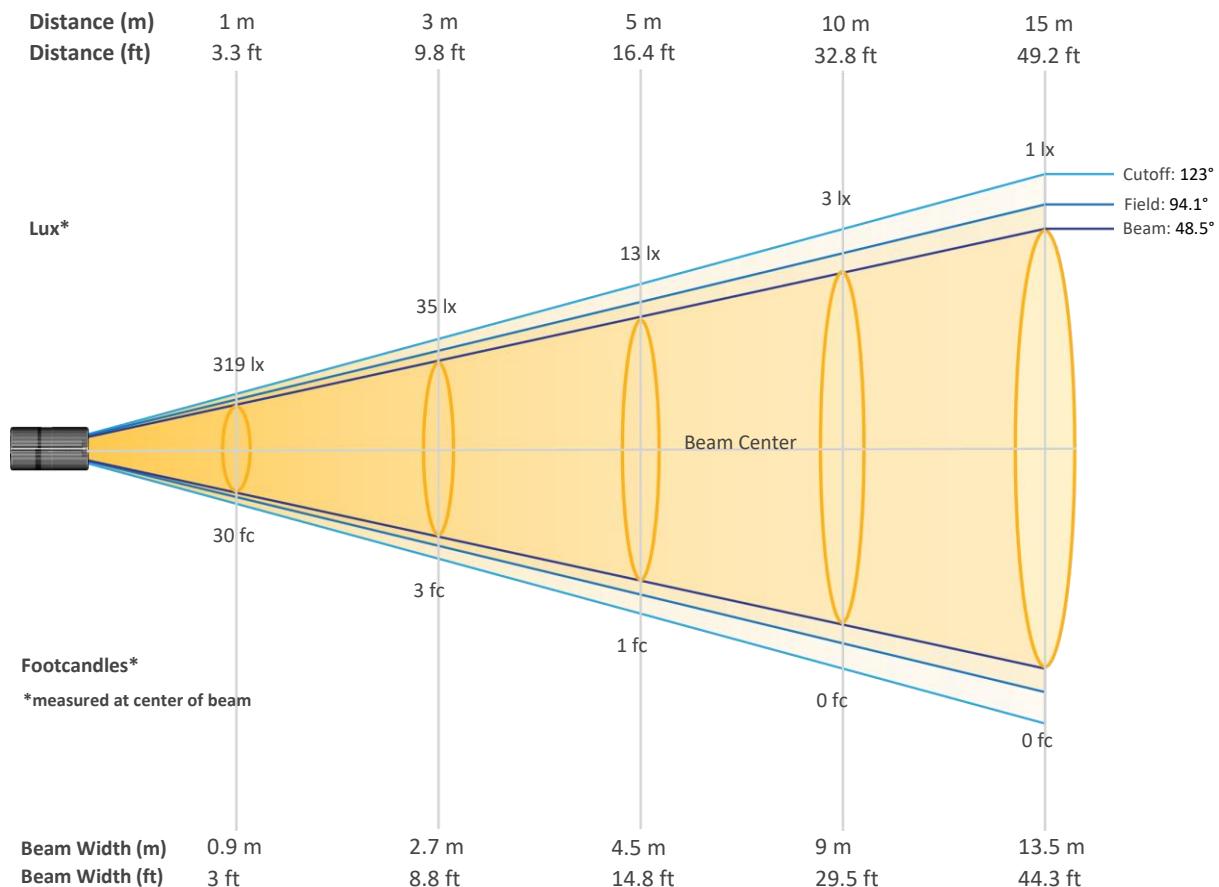
Color Temperature



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 7000K

Beam Details

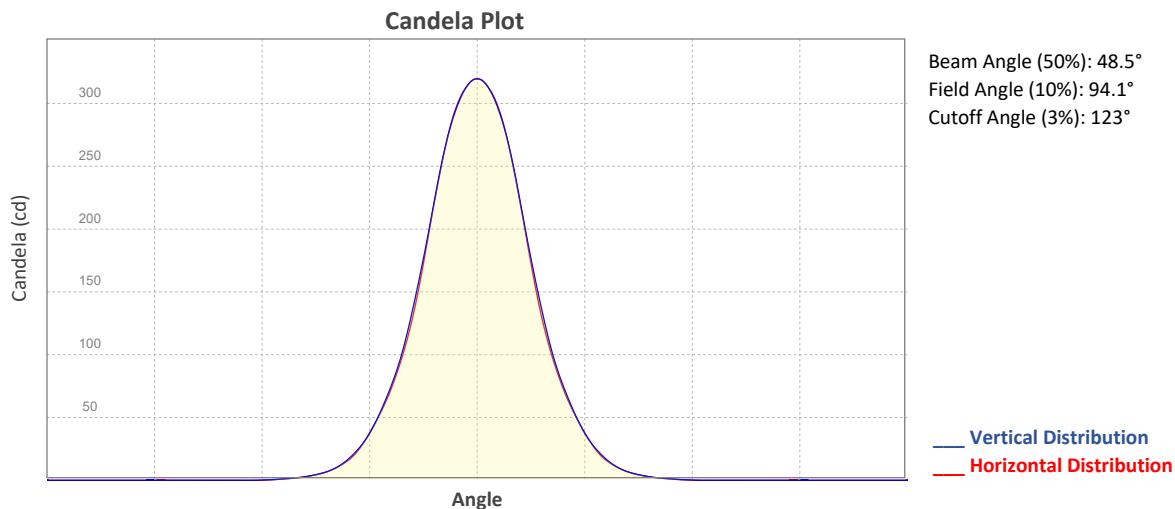


Beam Intensities from 1-20m (3.3-65.6ft)

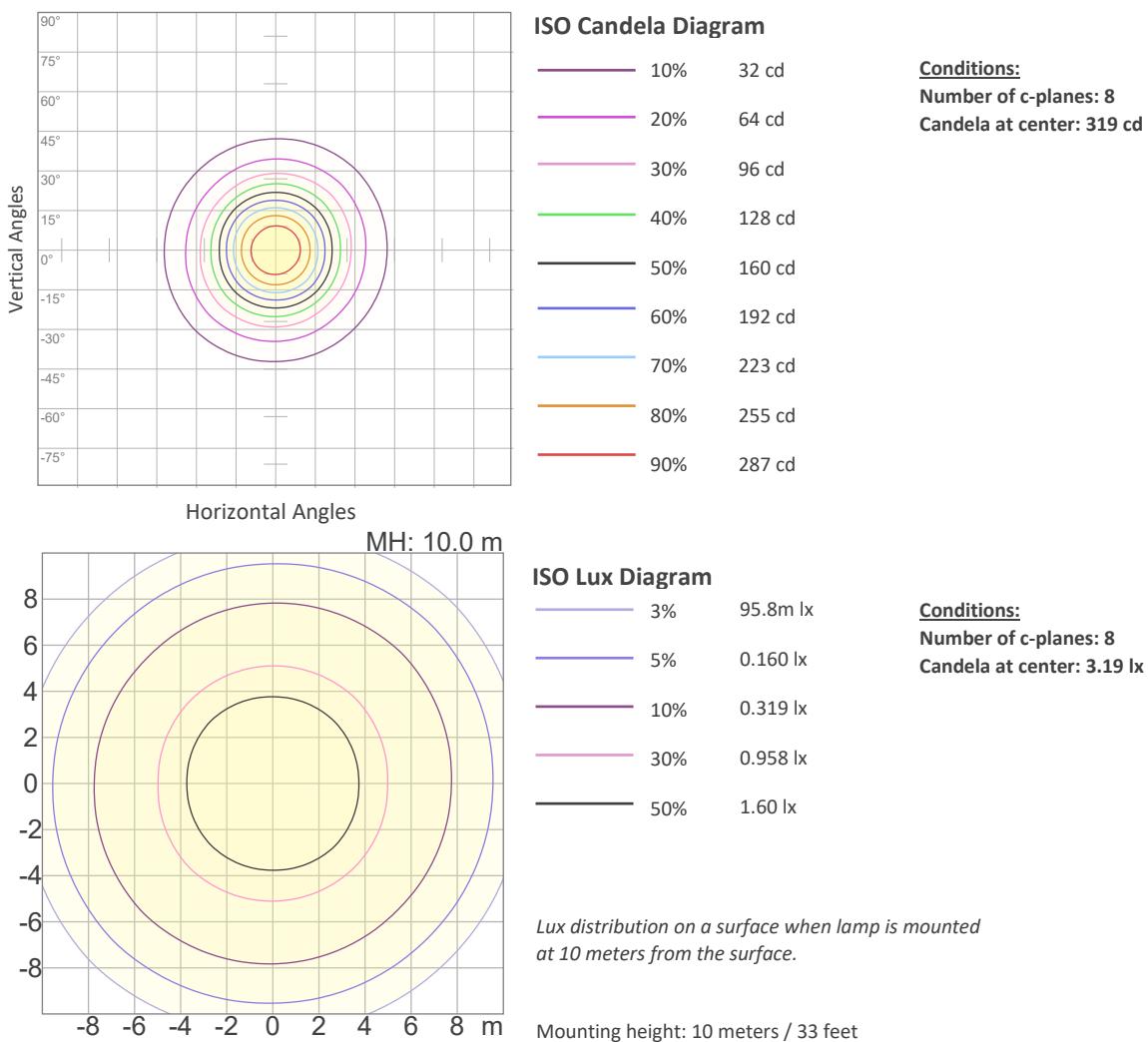
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	319	80	35	20	13	9	7	5	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	2	2	2	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	30	7	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 7000K



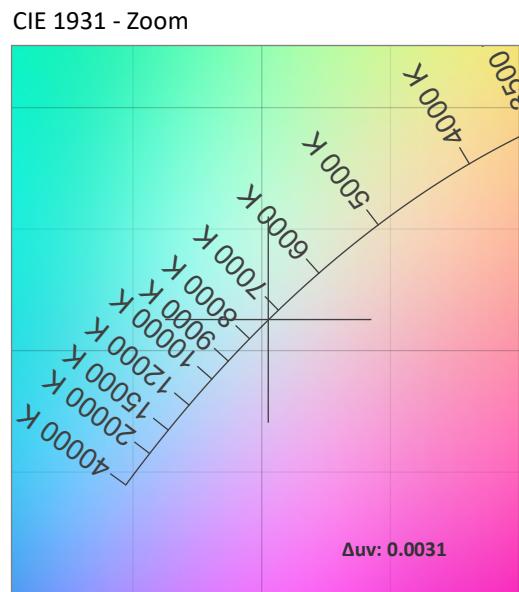
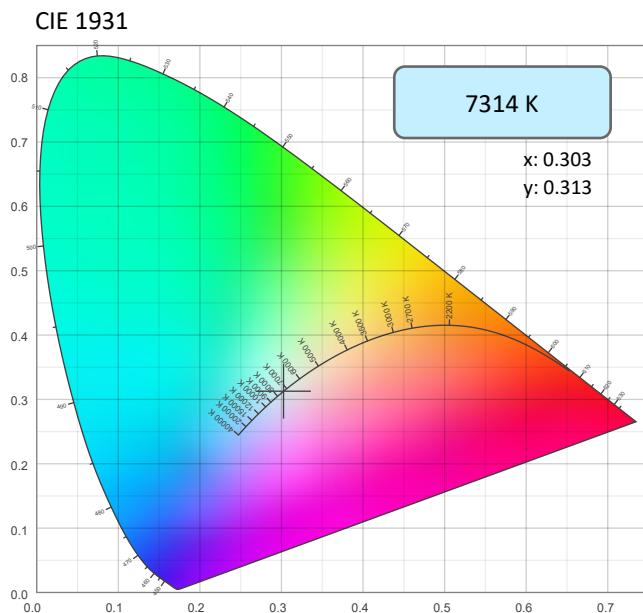
ISO Diagrams



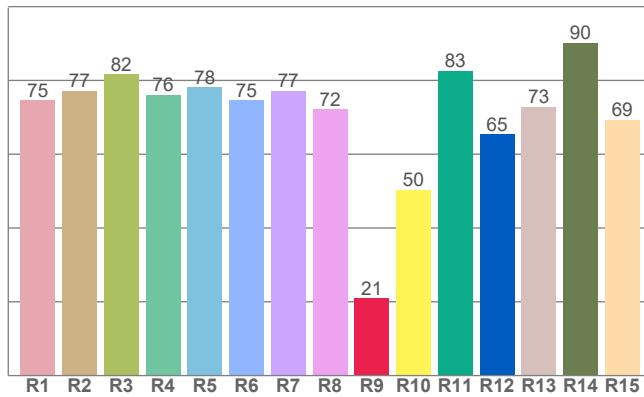
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 7000K

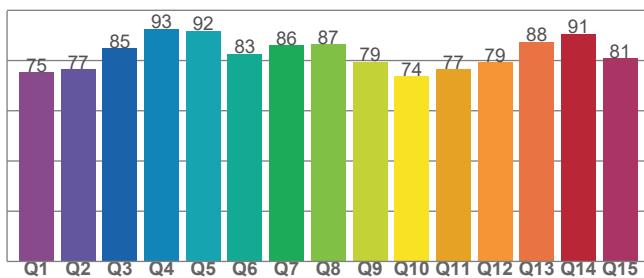
Chromaticity



CRI: 76.4 (R1-R8)



CQS: 82.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7314 K	0.303	0.313

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0031	0.313	0.197

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
76.4	20.9	82.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
78	75.9	94.5

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 7000K

TM-30 Details

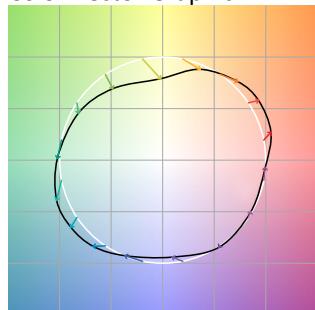
Rf 75.9

Fidelity Index
(Rg)

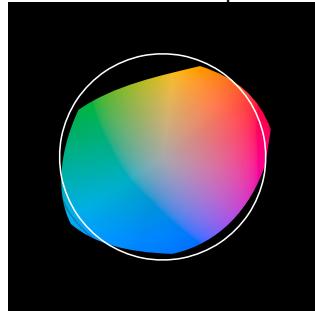
Rg 94.5

Gammut Index (Rg)

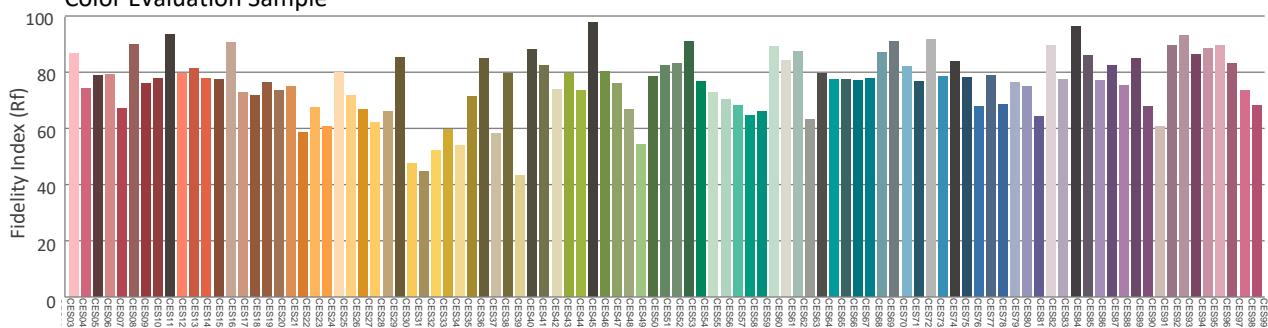
Color Vector Graphic



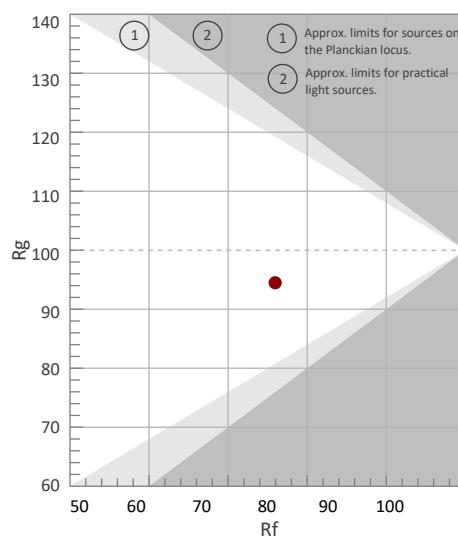
Color Distortion Graphic



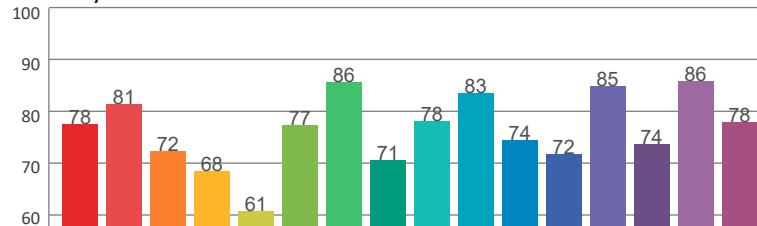
Color Evaluation Sample



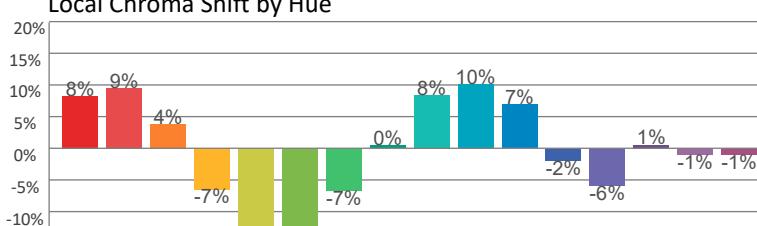
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	78	8%	6%
2	81	9%	-3%
3	72	4%	-18%
4	68	-7%	-18%
5	61	-22%	-13%
6	77	-16%	2%
7	86	-7%	8%
8	71	0%	18%
9	78	8%	18%
10	83	10%	5%
11	74	7%	-10%
12	72	-2%	-18%
13	85	-6%	-9%
14	74	1%	-2%
15	86	-1%	6%
16	78	-1%	12%



Rf by Hue



Local Chroma Shift by Hue



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 8000K

Report Summary

Measurements

Fixture Output: 284 lm
Fixture Peak: 335 cd
Fixture Efficacy: 15 lm/W
Intensity @ 5m: 13 lux
Color Temperature: 8747 K
CRI: 73.4 CRI R9 Value: 11.0
CQS: 78.6

TLCI: 74

TM-30 Rf: 72.6

TM-30 Rg: 92.2

Beam Angle (50%): 48.5°

Field Angle (10%): 94.2°

Cutoff Angle (3%): 123.1°

Conditions

AC Supply: 118 V, 60 Hz

Power: 21.25 W

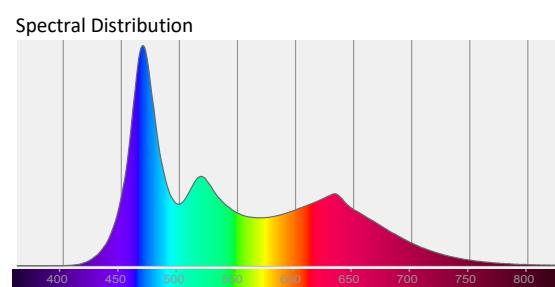
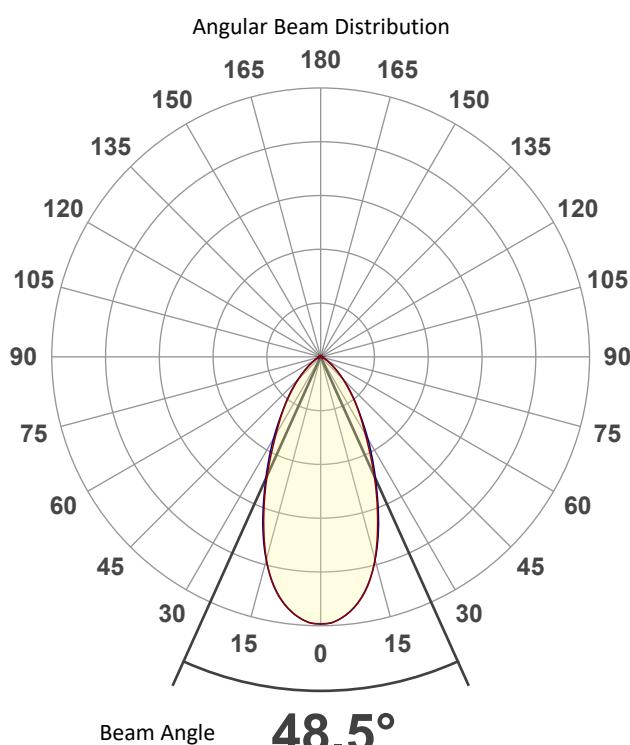
Current: 0.180 A

Power Factor: 0.88



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.288
Y: 0.300

Light Quality



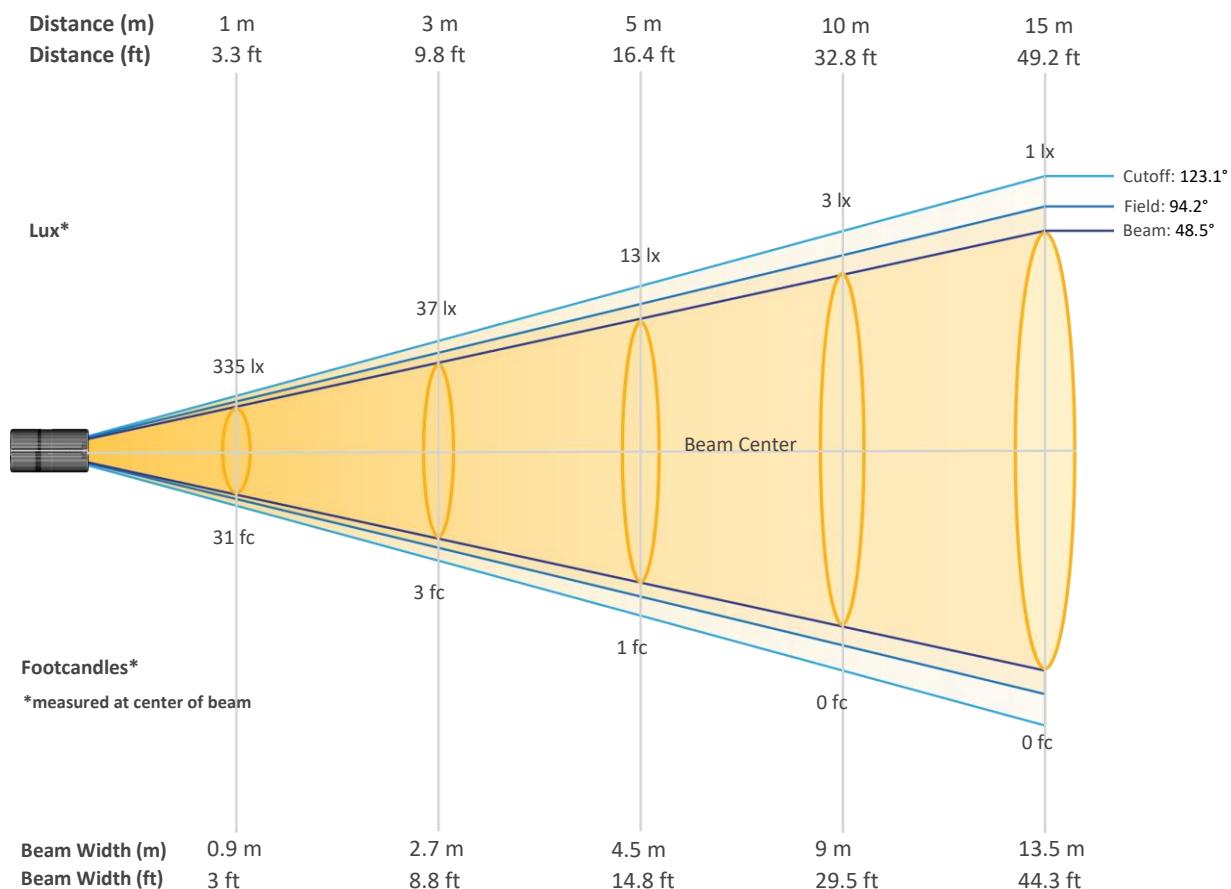
Color Temperature



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 8000K

Beam Details

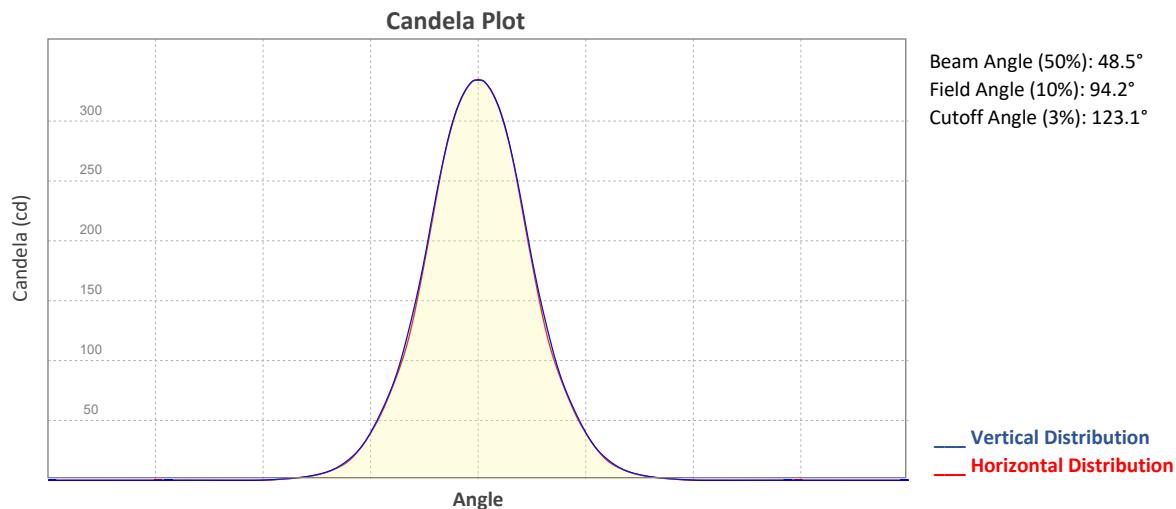


Beam Intensities from 1-20m (3.3-65.6ft)

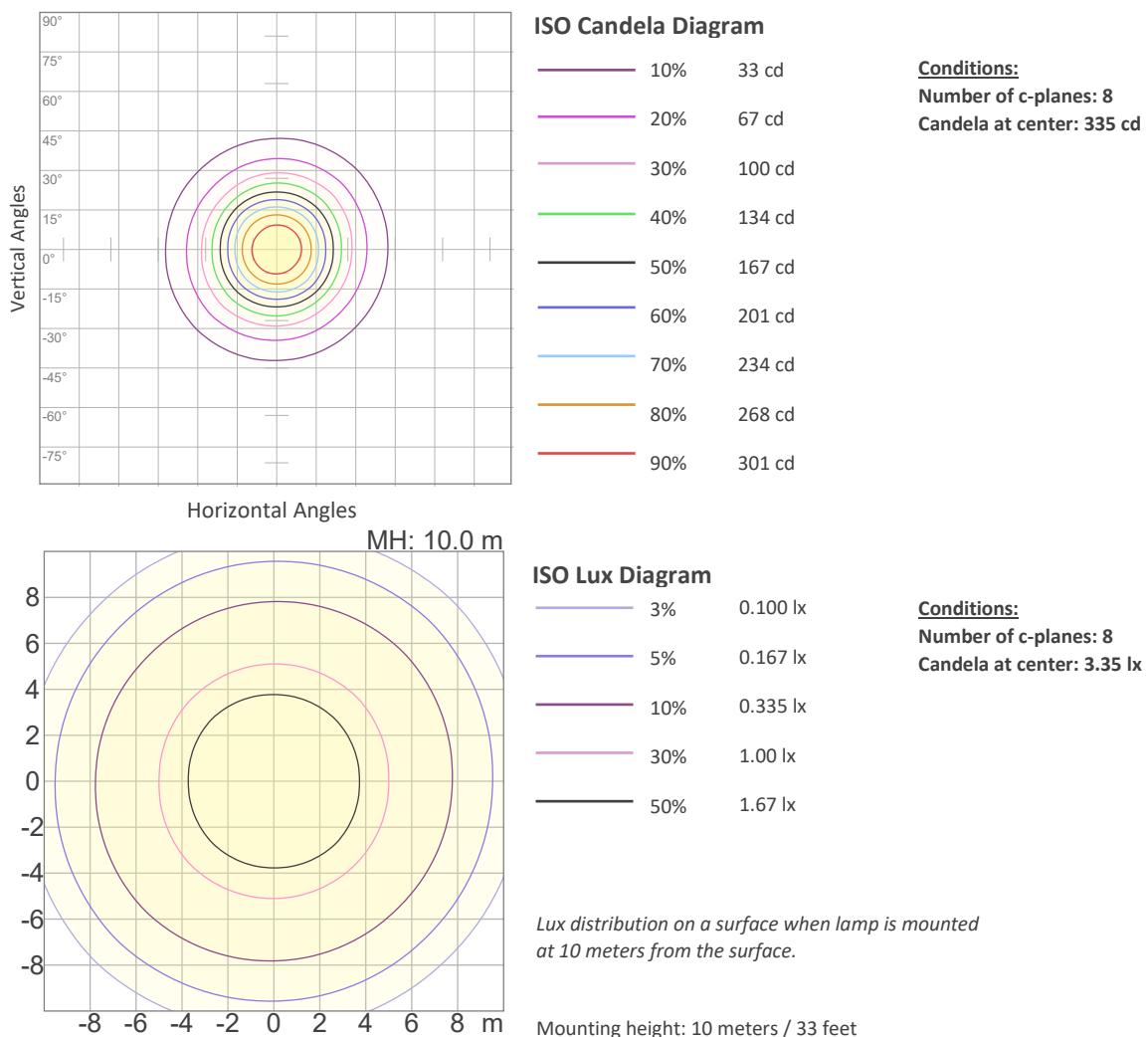
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	335	84	37	21	13	9	7	5	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	2	2	2	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	31	8	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 8000K



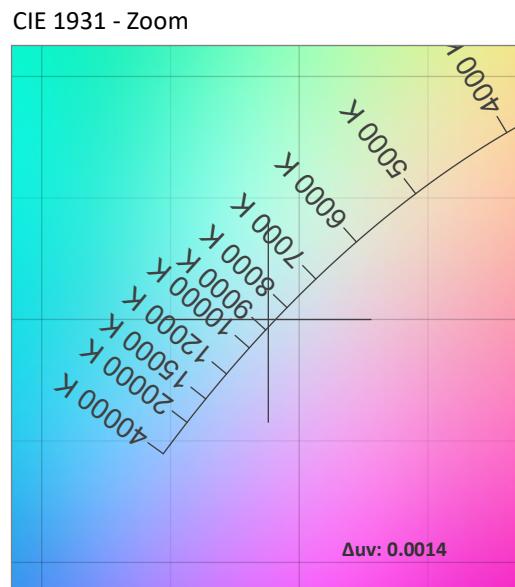
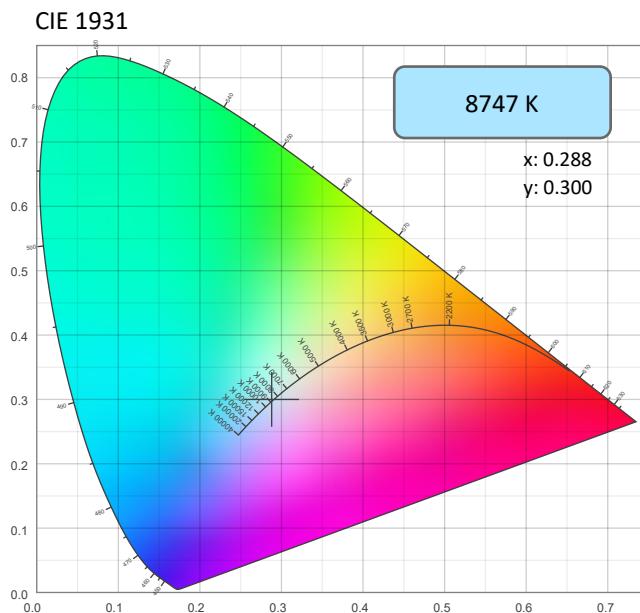
ISO Diagrams



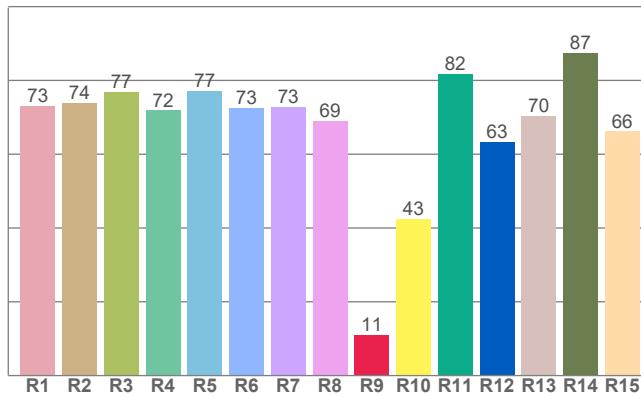
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 8000K

Chromaticity



CRI: 73.4 (R1-R8)

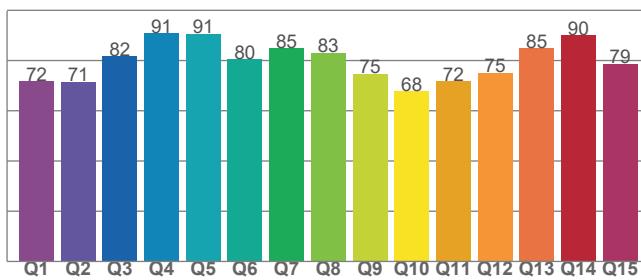


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
8747 K	0.288	0.300

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δu_v	y	u
0.0014	0.300	0.191

CQS: 78.6



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
73.4	11.0	78.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
74	72.6	92.2

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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 8000K

TM-30 Details

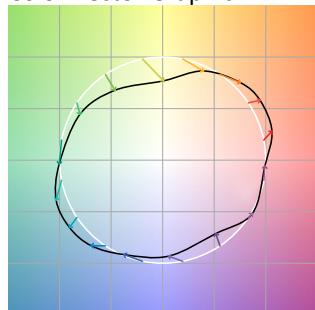
Rf 72.6

Fidelity Index
(Rg)

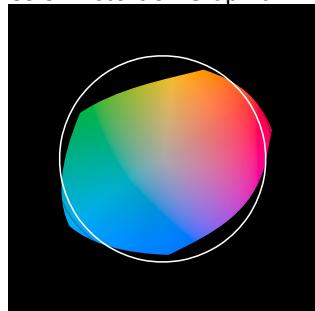
Rg 92.2

Gammut Index (Rg)

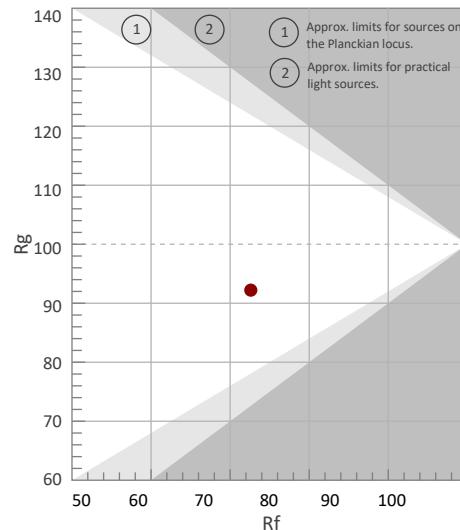
Color Vector Graphic



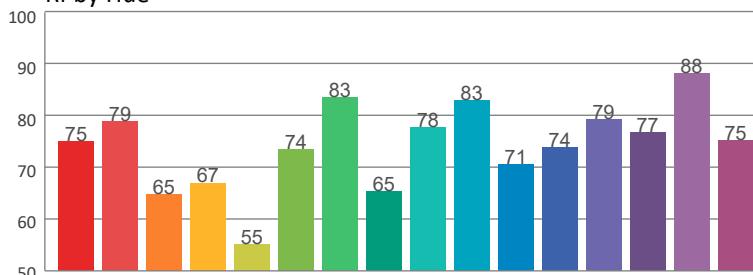
Color Distortion Graphic



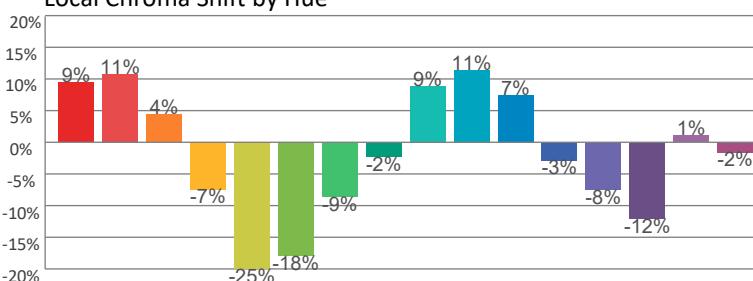
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	75	9%	7%
2	79	11%	-4%
3	65	4%	-21%
4	67	-7%	-22%
5	55	-25%	-16%
6	74	-18%	1%
7	83	-9%	8%
8	65	-2%	23%
9	78	9%	18%
10	83	11%	4%
11	71	7%	-12%
12	74	-3%	-19%
13	79	-8%	-13%
14	77	-12%	3%
15	88	1%	5%
16	75	-2%	14%



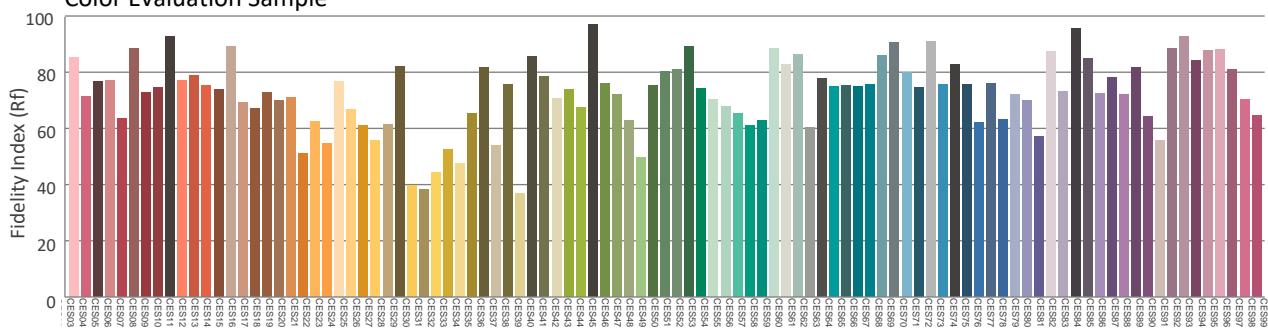
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 10000K

Report Summary

Measurements

Fixture Output: 287 lm
Fixture Peak: 337 cd
Fixture Efficacy: 15 lm/W
Intensity @ 5m: 13 lux
Color Temperature: 11533 K
CRI: 69.9 CRI R9 Value: 9.2
CQS: 75.4

TLCI: 73

TM-30 Rf: 69.0

TM-30 Rg: 88.4

Beam Angle (50%): 48.5°

Field Angle (10%): 94.3°

Cutoff Angle (3%): 123.2°

Conditions

AC Supply: 119 V, 60 Hz

Power: 21.58 W

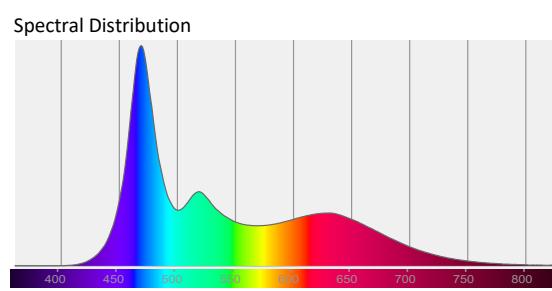
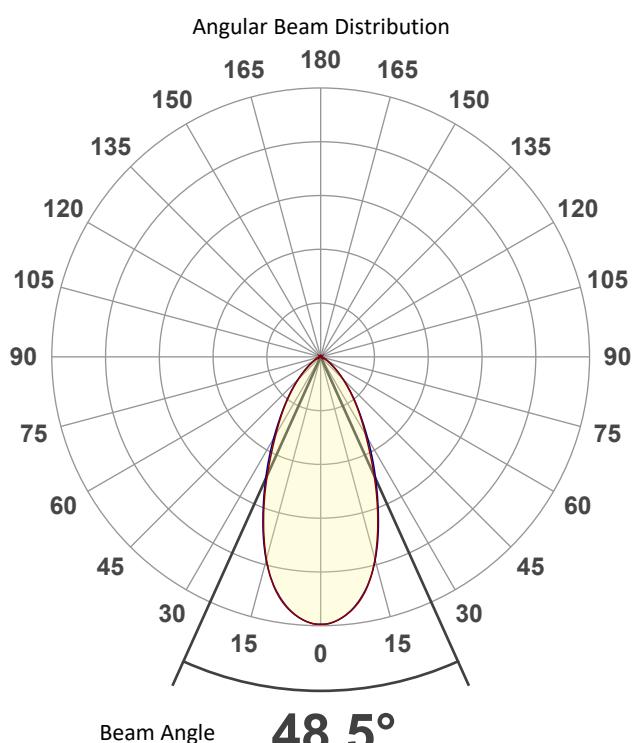
Current: 0.182 A

Power Factor: 0.88



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.272
Y: 0.282

Light Quality

CRI: 69.9

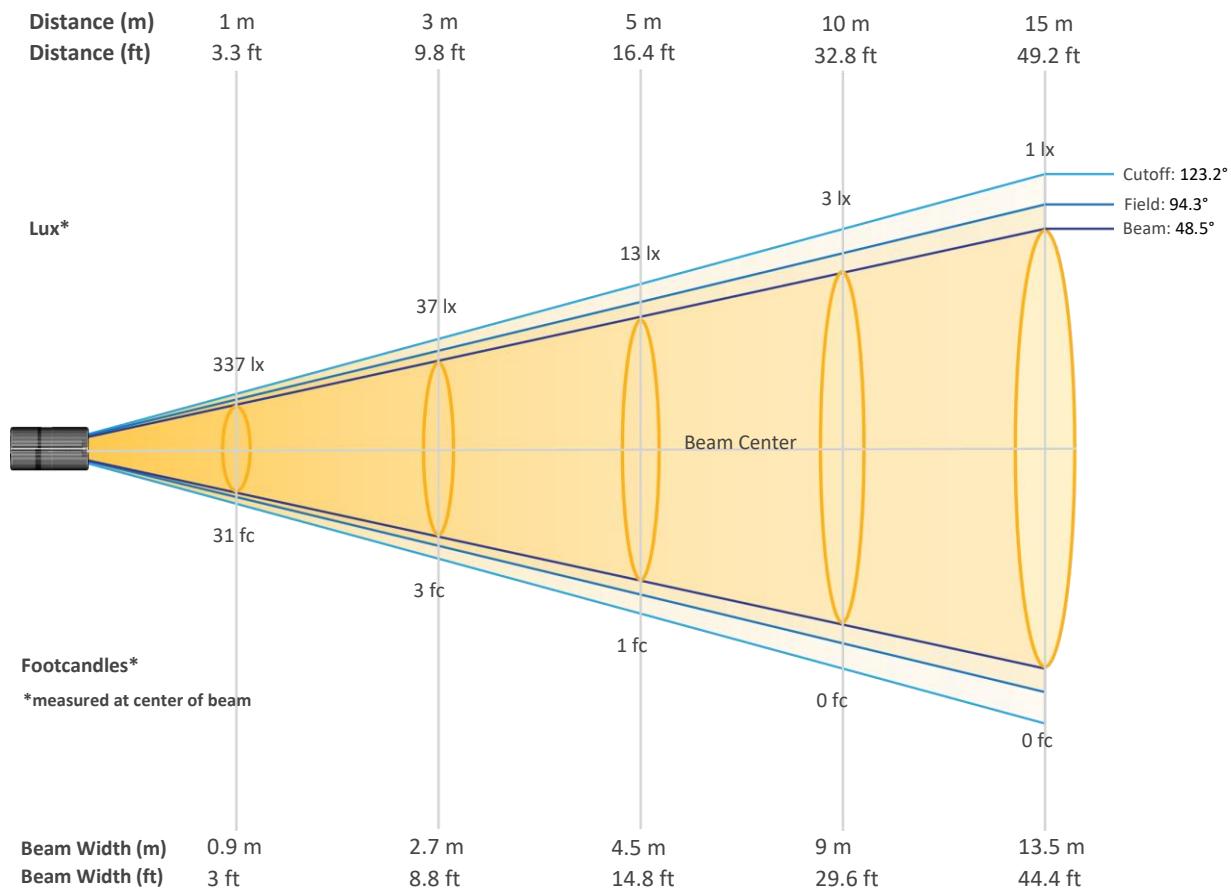
Color Temperature

11533 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 10000K

Beam Details

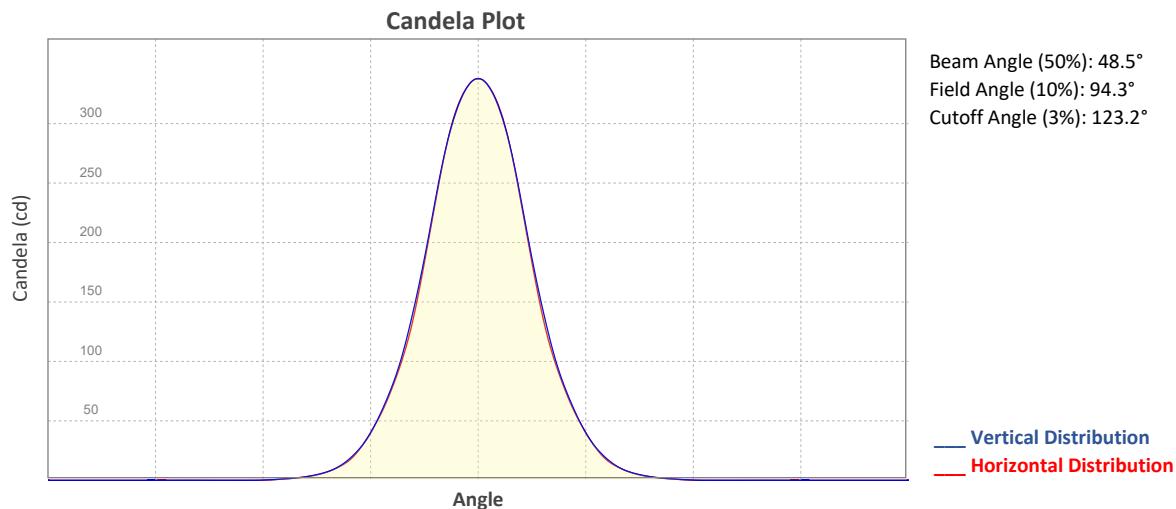


Beam Intensities from 1-20m (3.3-65.6ft)

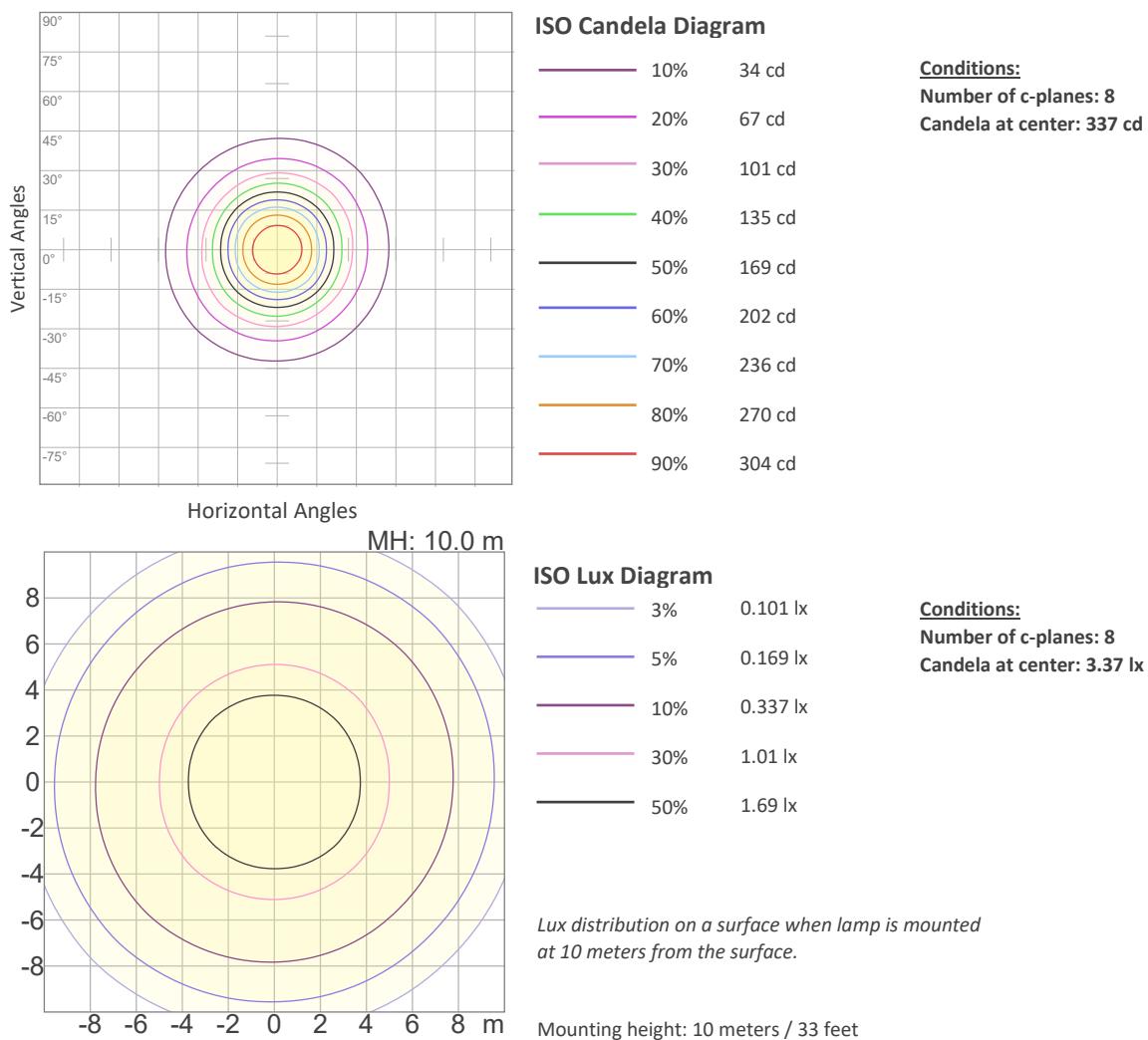
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	337	84	37	21	13	9	7	5	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	2	2	2	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	31	8	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 10000K



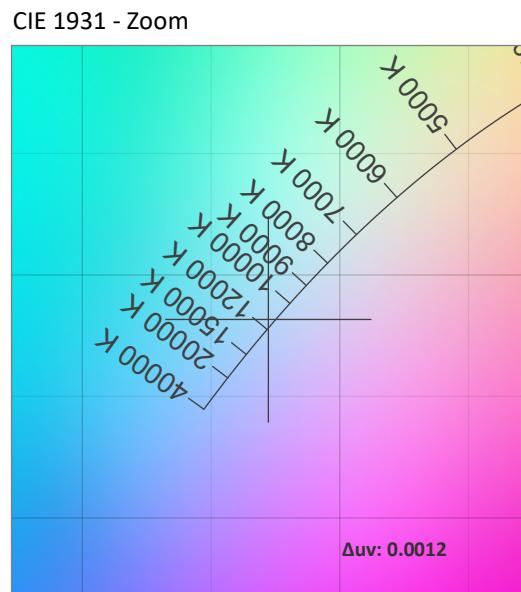
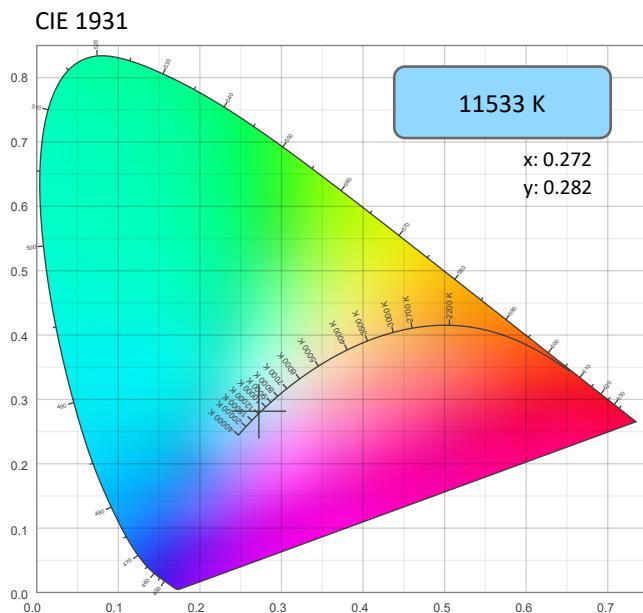
ISO Diagrams



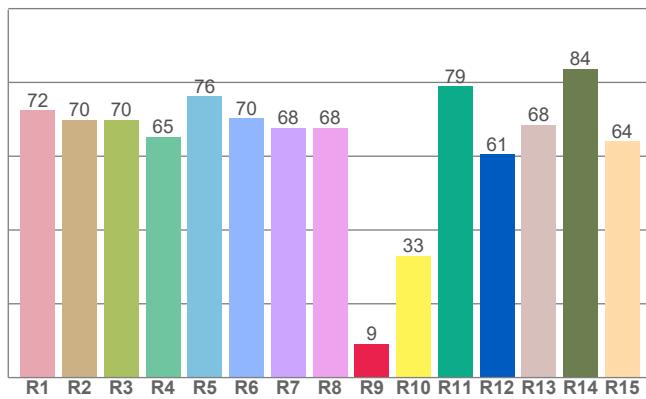
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 10000K

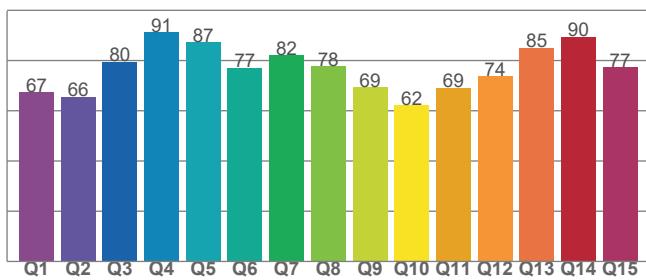
Chromaticity



CRI: 69.9 (R1-R8)



CQS: 75.4



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
11533 K	0.272	0.282

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δu_v	u	v
0.0012	0.282	0.187

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.9	9.2	75.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	69.0	88.4

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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens - 10000K

TM-30 Details

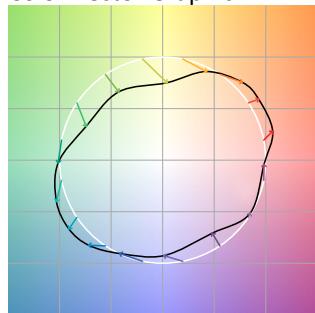
Rf 69.0

Fidelity Index
(Rg)

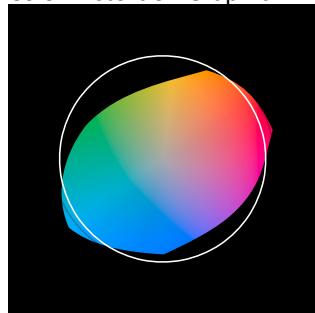
Rg 88.4

Gammut Index (Rg)

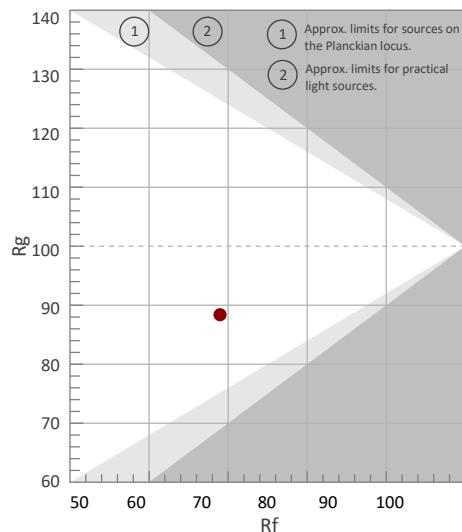
Color Vector Graphic



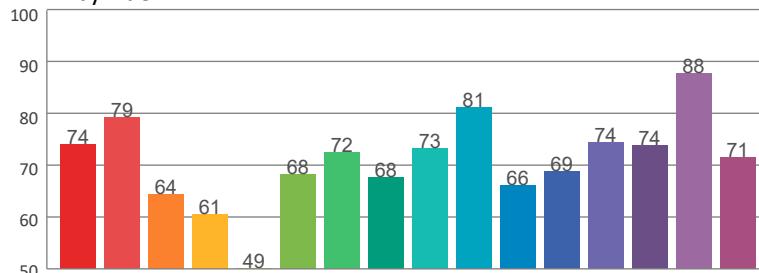
Color Distortion Graphic



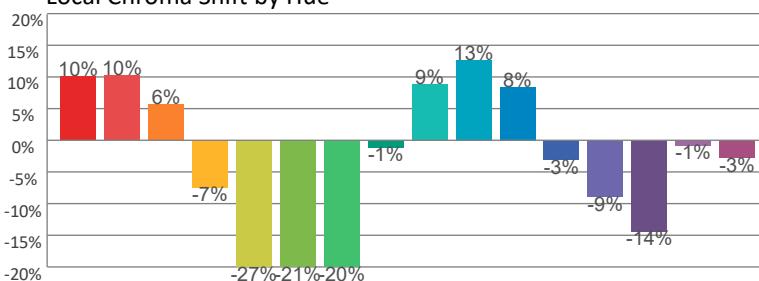
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	74	10%	7%
2	79	10%	-3%
3	64	6%	-22%
4	61	-7%	-25%
5	49	-27%	-19%
6	68	-21%	-1%
7	72	-20%	14%
8	68	-1%	22%
9	73	9%	19%
10	81	13%	5%
11	66	8%	-14%
12	69	-3%	-23%
13	74	-9%	-17%
14	74	-14%	1%
15	88	-1%	4%
16	71	-3%	15%



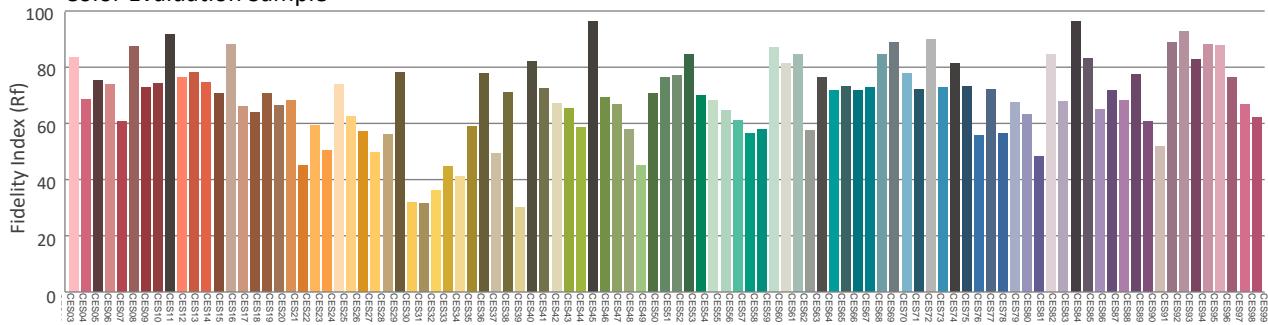
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 339 lm
Fixture Peak: 589 cd
Fixture Efficacy: 13 lm/W
Intensity @ 5m: 24 lux
Color Temperature: 5839 K
CRI: 49.0 CRI R9 Value: -144.7
CQS: 63.3
TLCI: 28

TM-30 Rf: 62.1
TM-30 Rg: 103.7
Beam Angle (50%): 40.6°
Field Angle (10%): 76.6°
Cutoff Angle (3%): 97.2°

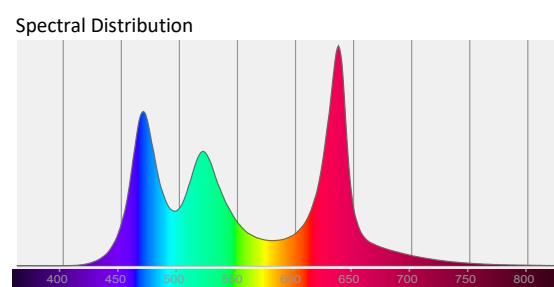
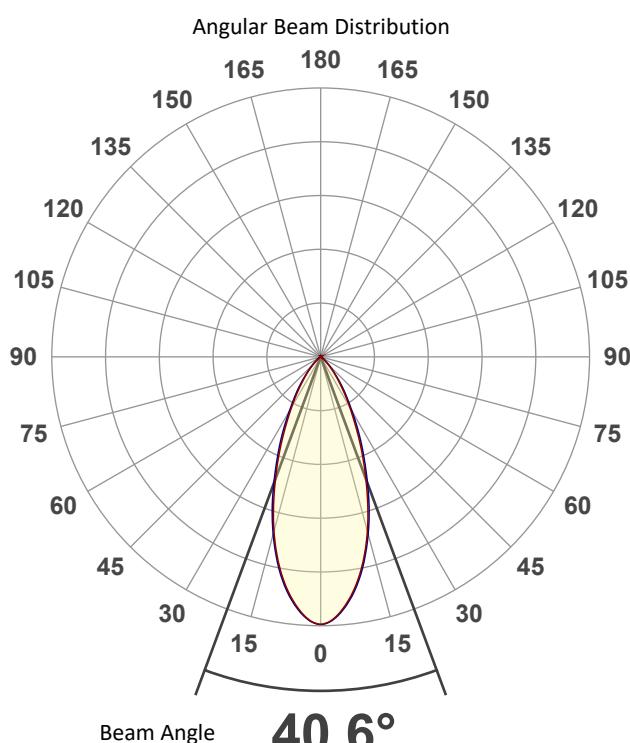
Conditions

AC Supply: 118 V, 60 Hz
Power: 28.98 W
Current: 0.245 A
Power Factor: 0.93



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.325
Y: 0.337

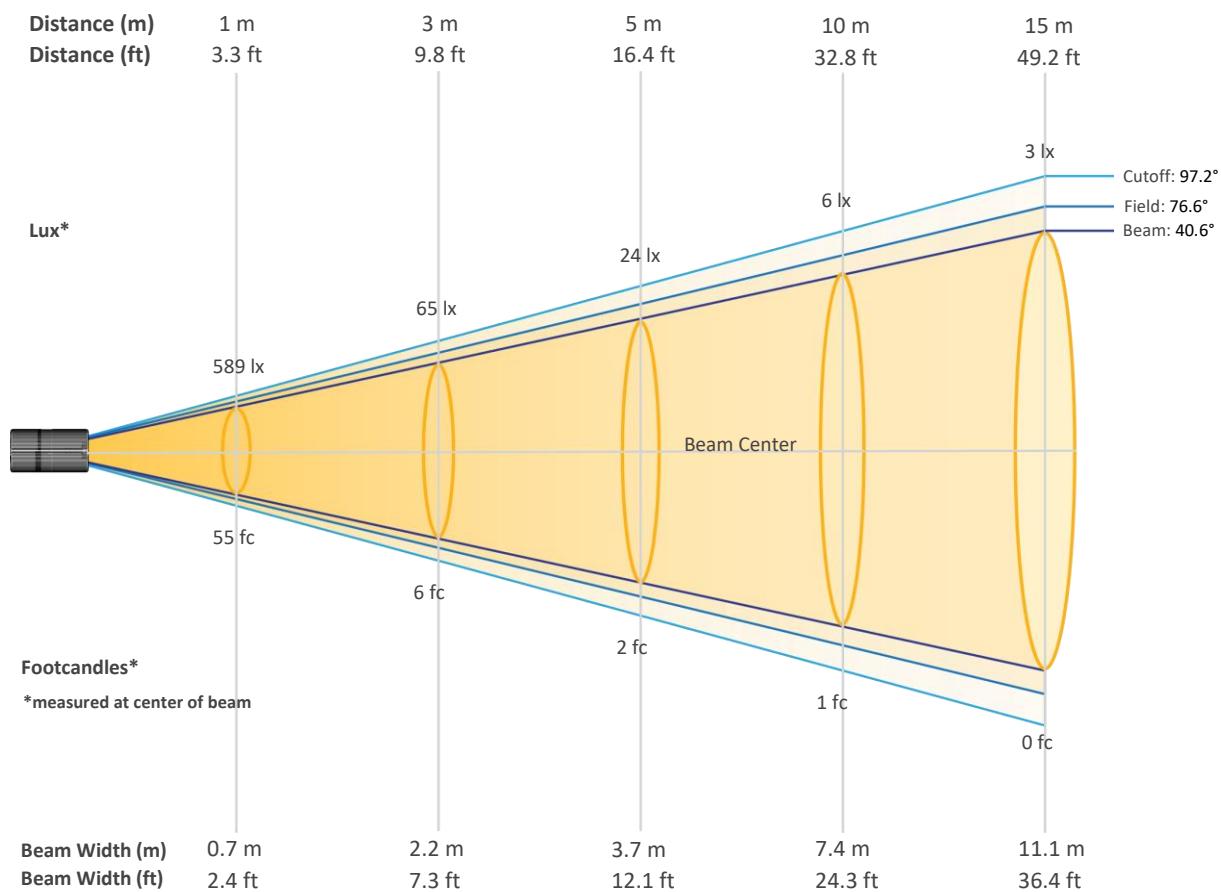
Light Quality
CRI: 49.0

Color Temperature
5839 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - RGBW - Full Power

Beam Details

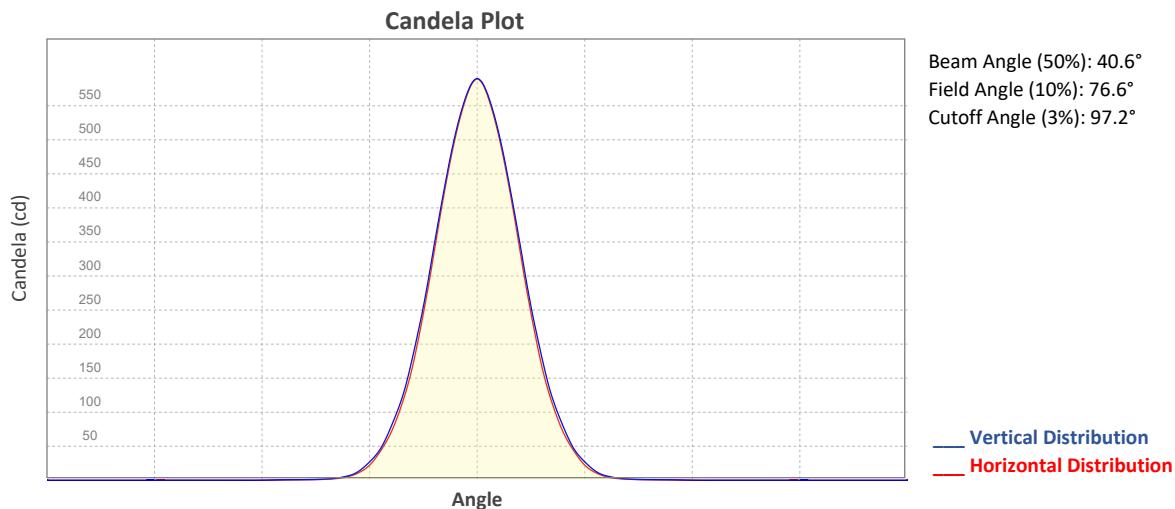


Beam Intensities from 1-20m (3.3-65.6ft)

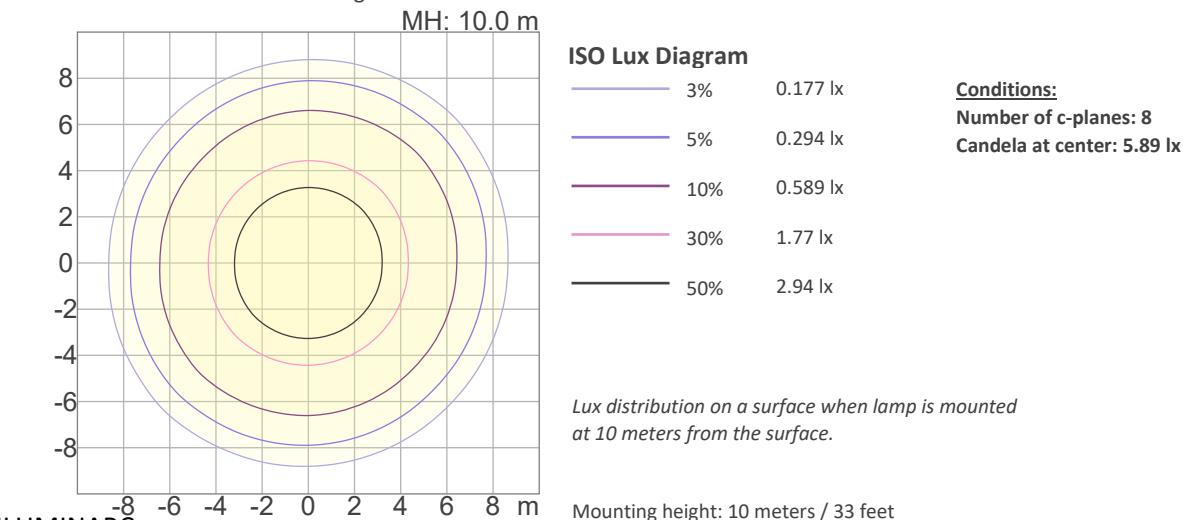
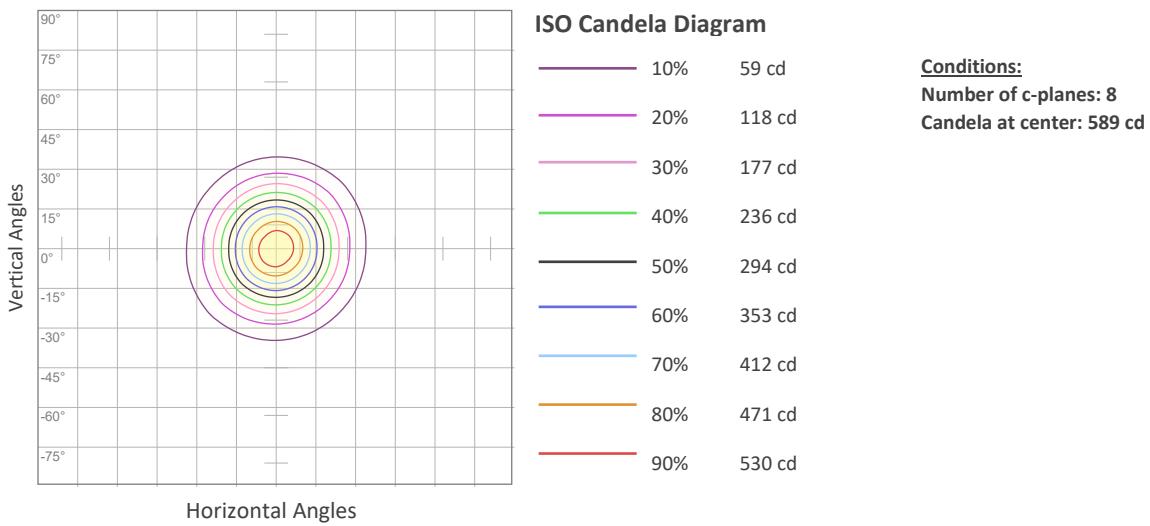
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	589	147	65	37	24	16	12	9	7	6
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	4	3	3	3	2	2	2	2	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	55	14	6	3	2	2	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - RGBW - Full Power



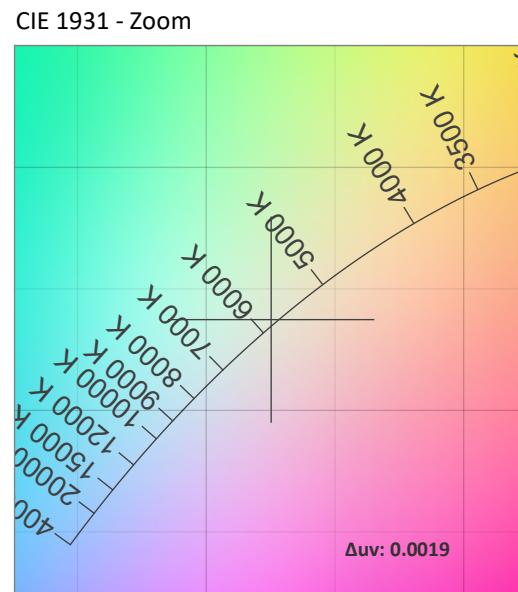
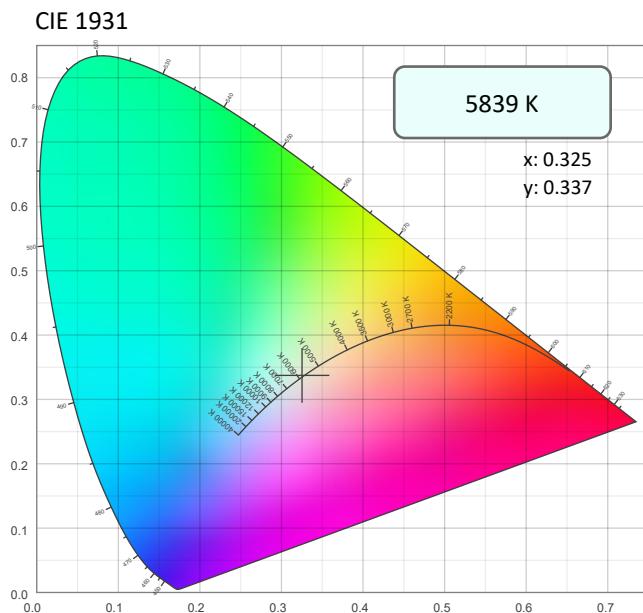
ISO Diagrams



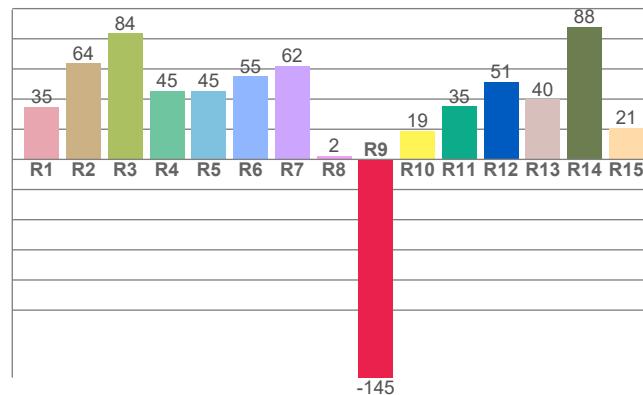
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - RGBW - Full Power

Chromaticity



CRI: 49.0 (R1-R8)

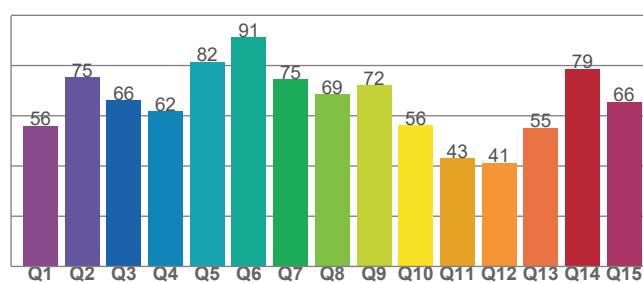


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5839 K	0.325	0.337

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δu_v	u	v
0.0019	0.337	0.203

CQS: 63.3



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
49.0	-144.7	63.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
28	62.1	103.7

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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - RGBW - Full Power

TM-30 Details

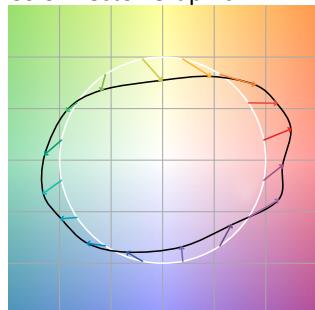
Rf 62.1

Fidelity Index
(Rg)

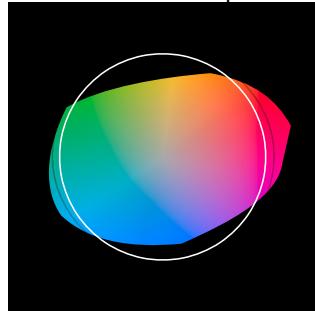
Rg 103.7

Gammut Index (Rg)

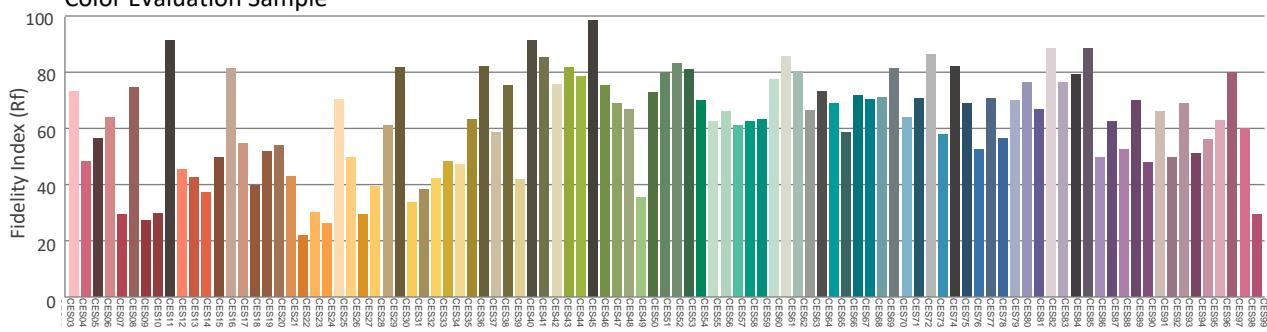
Color Vector Graphic



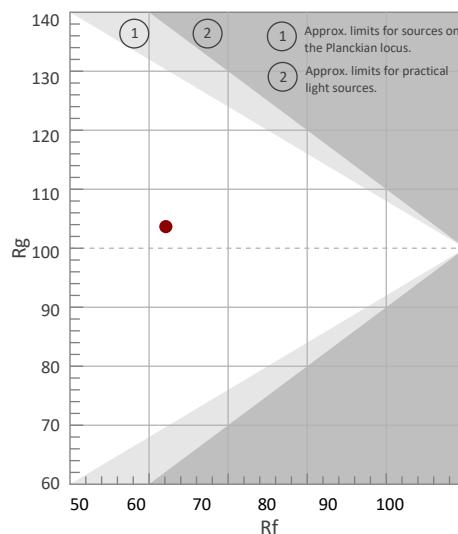
Color Distortion Graphic



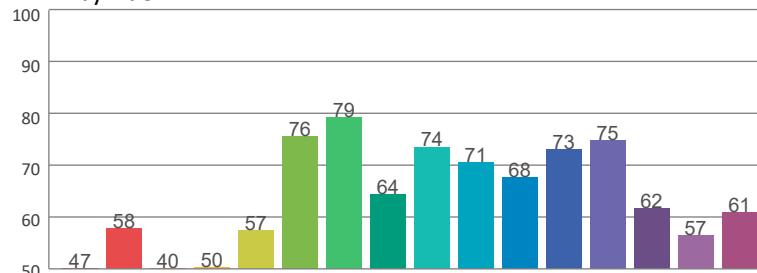
Color Evaluation Sample



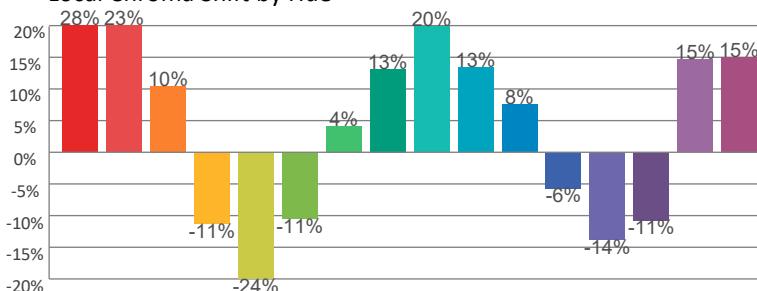
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	47	28%	5%
2	58	23%	-16%
3	40	10%	-34%
4	50	-11%	-30%
5	57	-24%	-14%
6	76	-11%	12%
7	79	4%	12%
8	64	13%	17%
9	74	20%	9%
10	71	13%	-7%
11	68	8%	-16%
12	73	-6%	-17%
13	75	-14%	1%
14	62	-11%	20%
15	57	15%	30%
16	61	15%	18%



Rf by Hue



Local Chroma Shift by Hue



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ILUMINARC

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Red Only

Report Summary

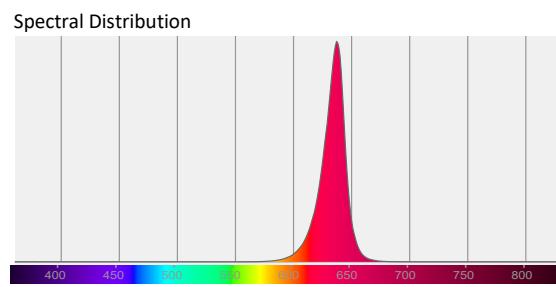
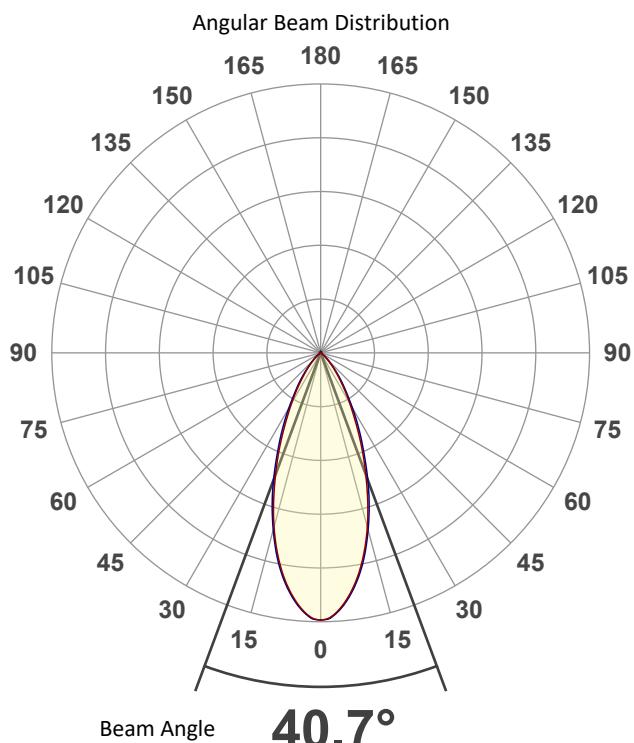
Measurements

Fixture Output: 80.2 lm
Fixture Peak: 139 cd
Fixture Efficacy: 5 lm/W
Intensity @ 5m: 6 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 40.7°
Field Angle (10%): 76.5°
Cutoff Angle (3%): 97°
Conditions
AC Supply: 119 V, 60 Hz
Power: 18.54 W
Current: 0.156 A
Power Factor: 0.84



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Light Quality

CRI: 0.0

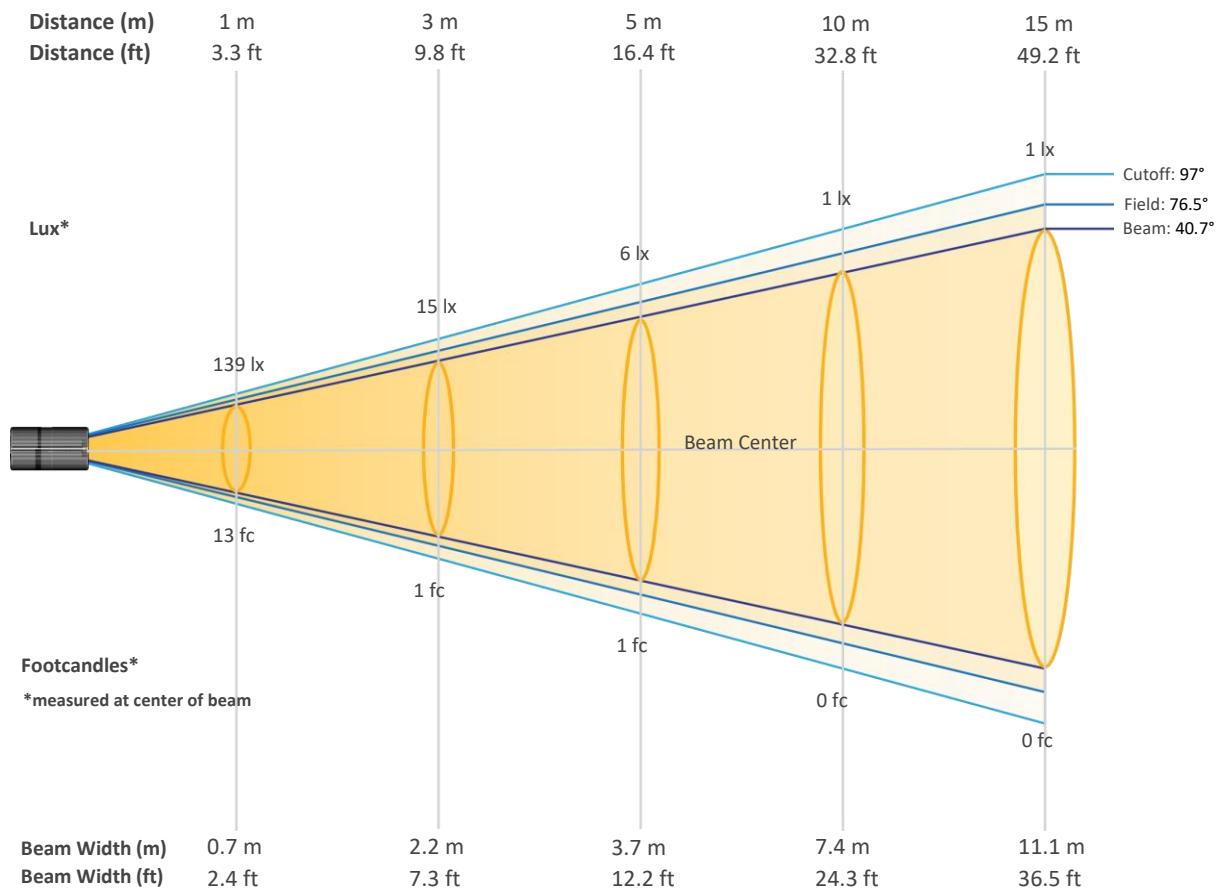
Color Temperature

0 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Red Only

Beam Details

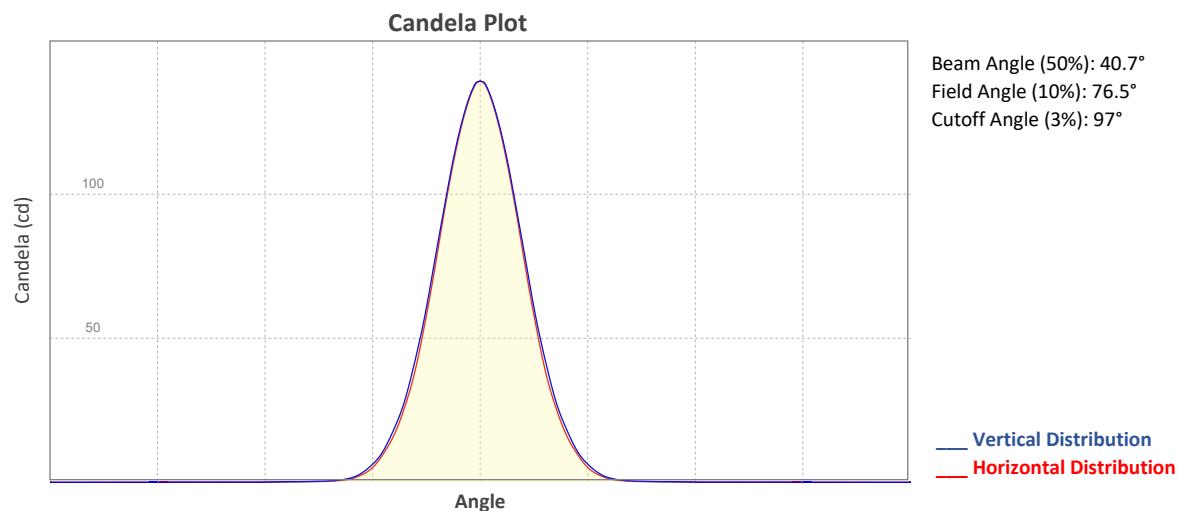


Beam Intensities from 1-20m (3.3-65.6ft)

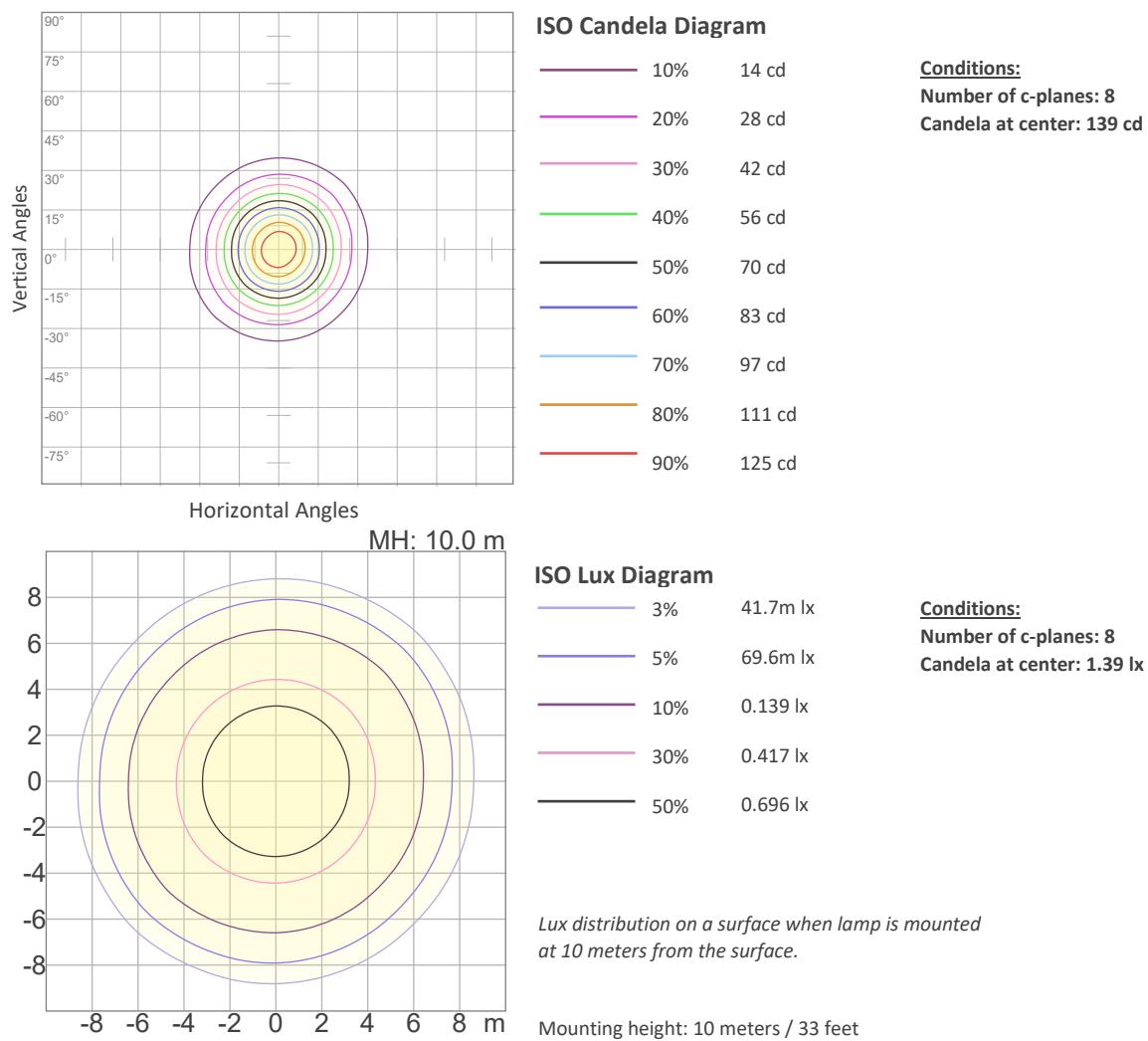
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	139	35	15	9	6	4	3	2	2	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	1	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	13	3	1	1	1	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Red Only



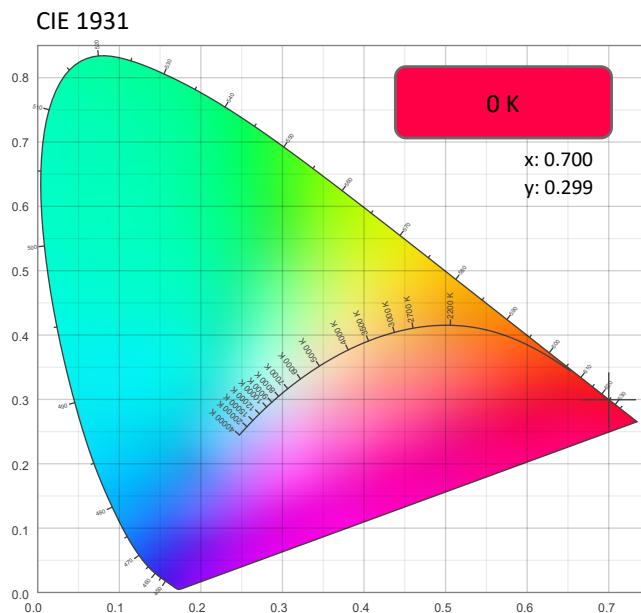
ISO Diagrams



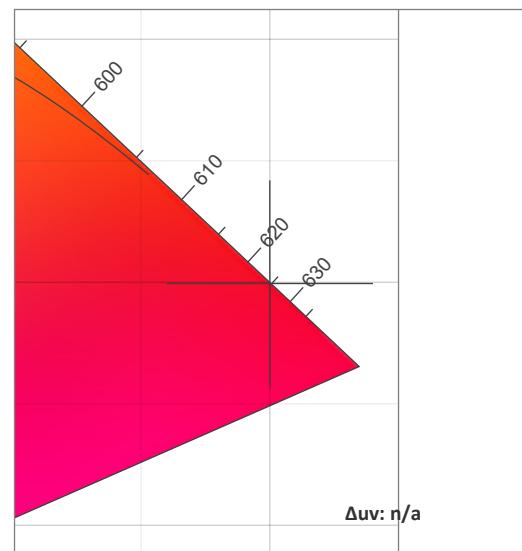
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Red Only

Chromaticity



CIE 1931 - Zoom



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.700	0.299

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.299	0.539

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Red Only

TM-30 Details

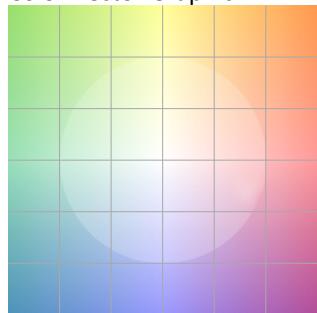
Rf 0.0

Fidelity Index
(Rg)

Rg 0.0

Gammut Index (Rg)

Color Vector Graphic



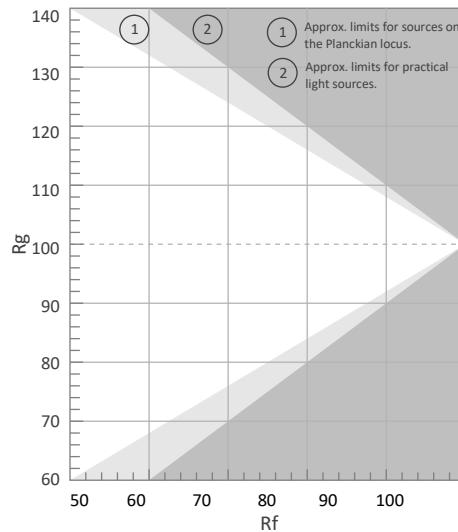
Color Distortion Graphic



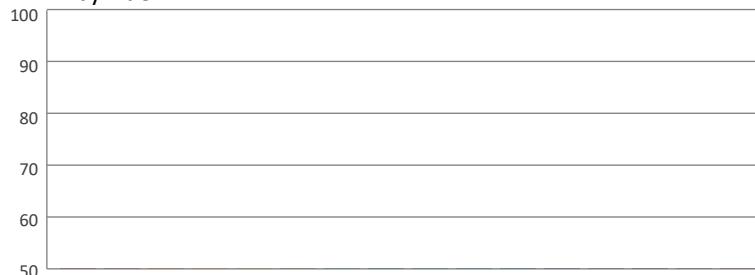
Color Evaluation Sample



Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Green Only

Report Summary

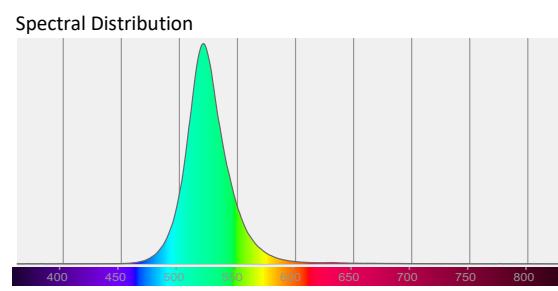
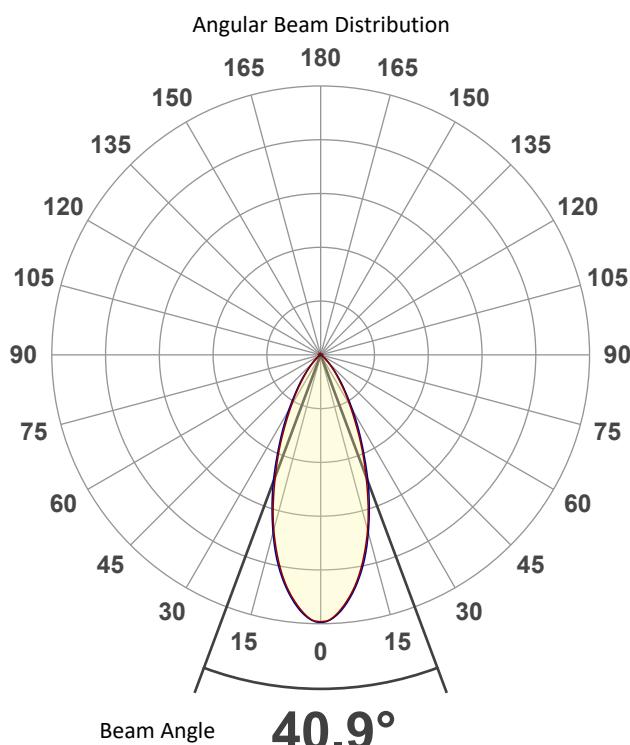
Measurements

Fixture Output: 160 lm
Fixture Peak: 276 cd
Fixture Efficacy: 10 lm/W
Intensity @ 5m: 11 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 40.9°
Field Angle (10%): 76.9°
Cutoff Angle (3%): 97.4°
Conditions
AC Supply: 119 V, 60 Hz
Power: 18.96 W
Current: 0.160 A
Power Factor: 0.85



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.170
Y: 0.716

Light Quality

CRI: 0.0

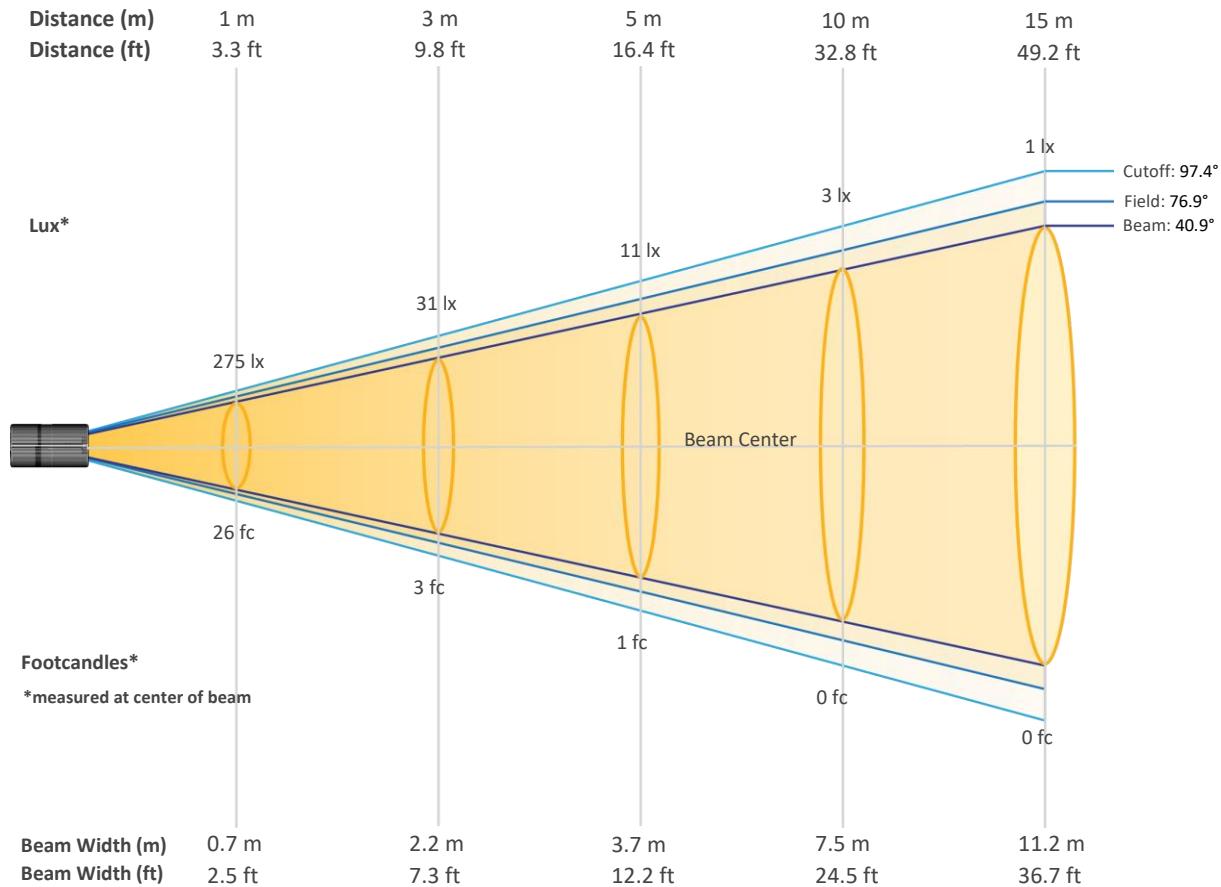
Color Temperature

0 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Green Only

Beam Details

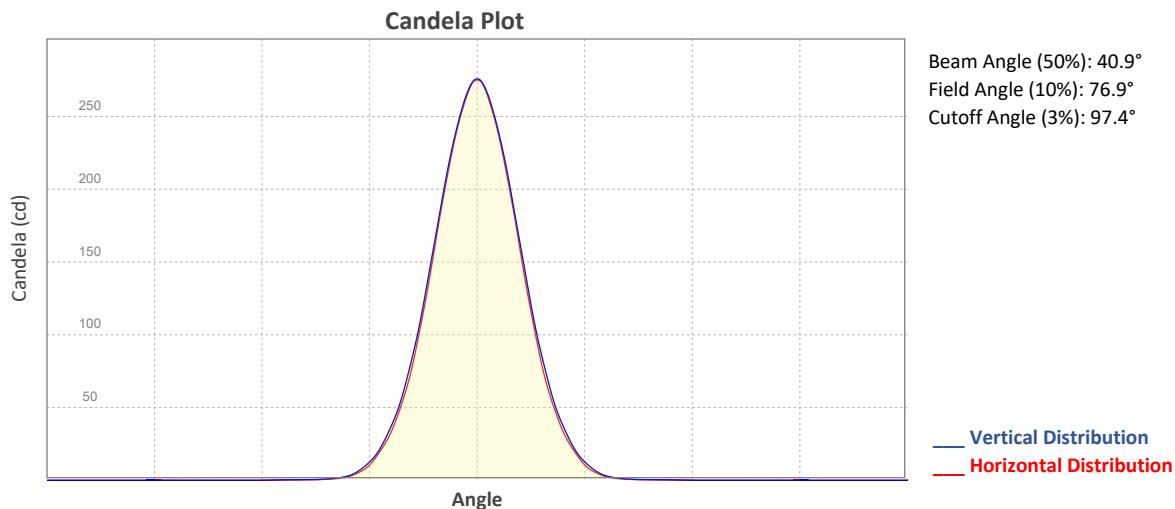


Beam Intensities from 1-20m (3.3-65.6ft)

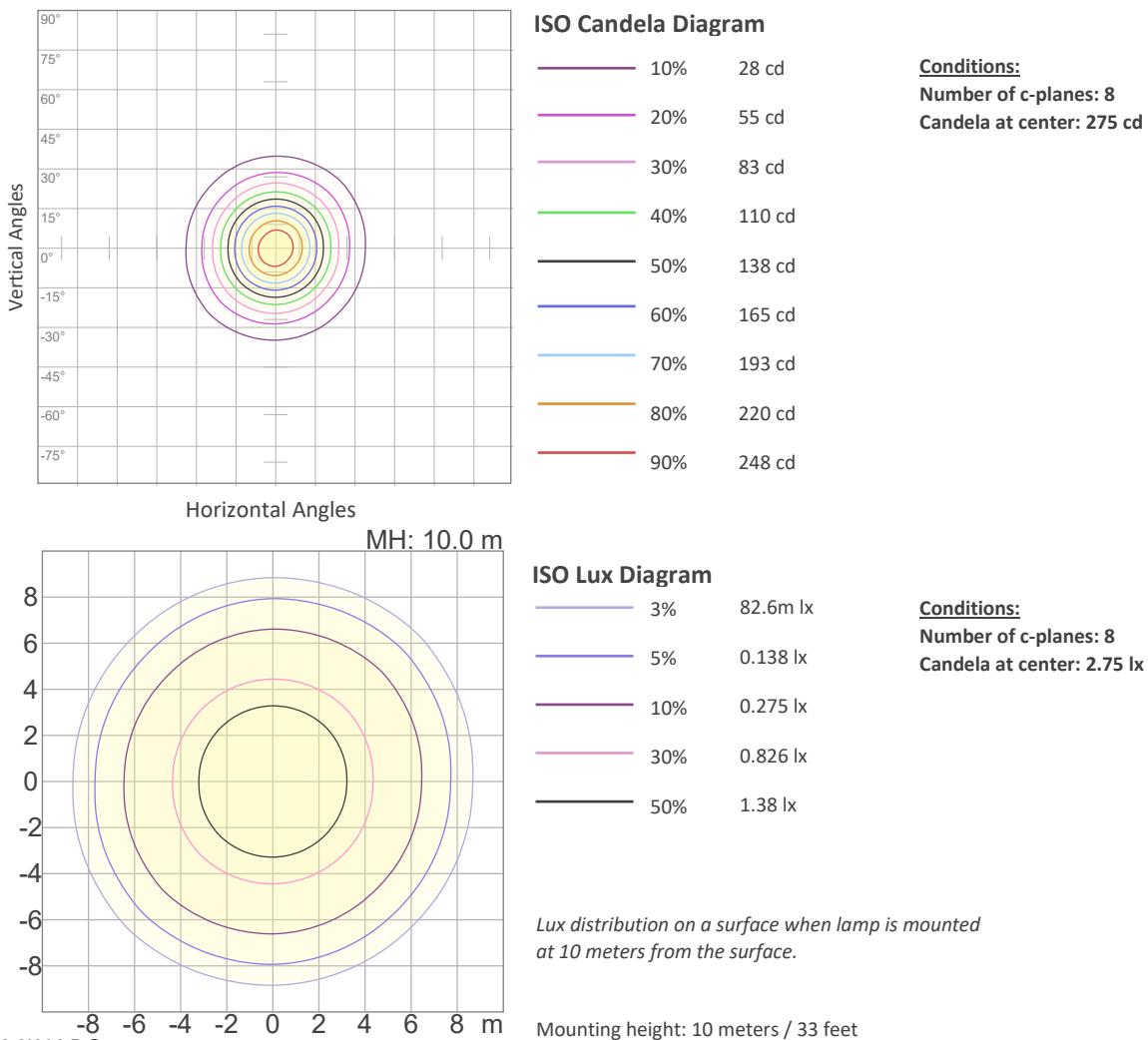
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	275	69	31	17	11	8	6	4	3	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	2	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	26	6	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Green Only



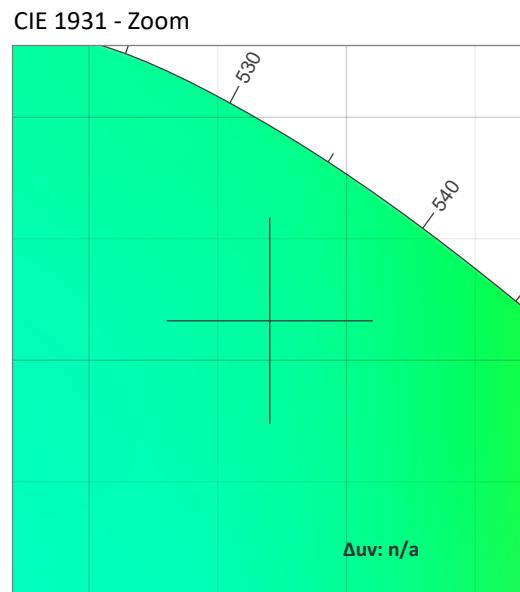
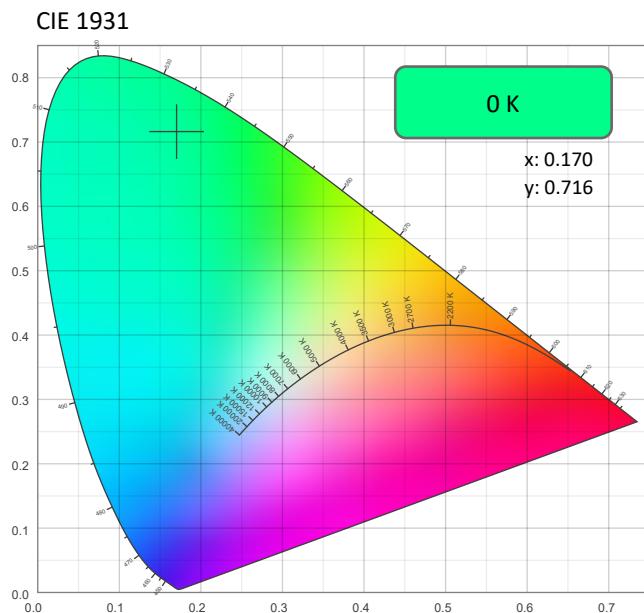
ISO Diagrams



Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Green Only

Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.170	0.716

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.716	0.060

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Green Only

TM-30 Details

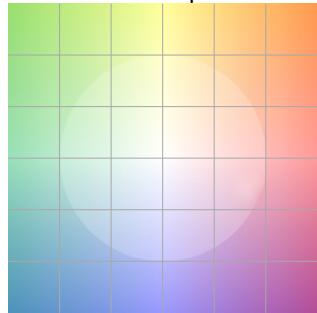
Rf 0.0

Fidelity Index
(Rg)

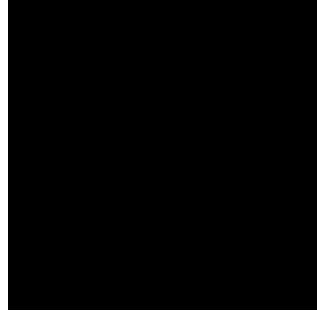
Rg 0.0

Gammut Index (Rg)

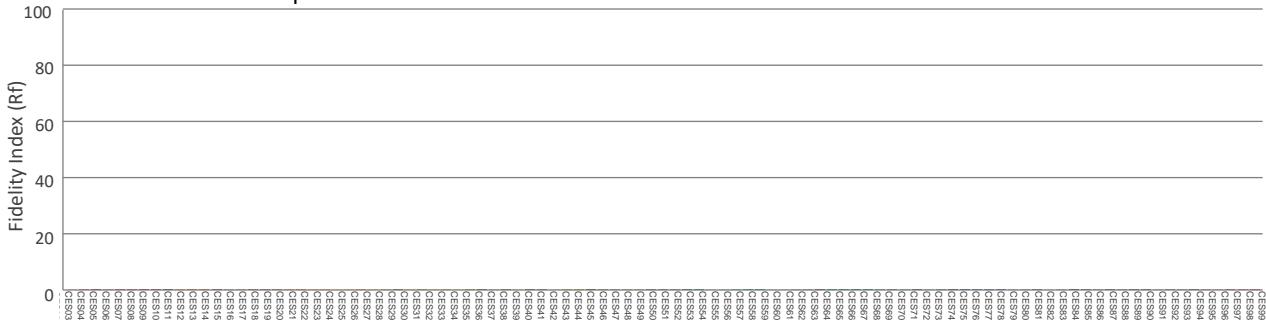
Color Vector Graphic



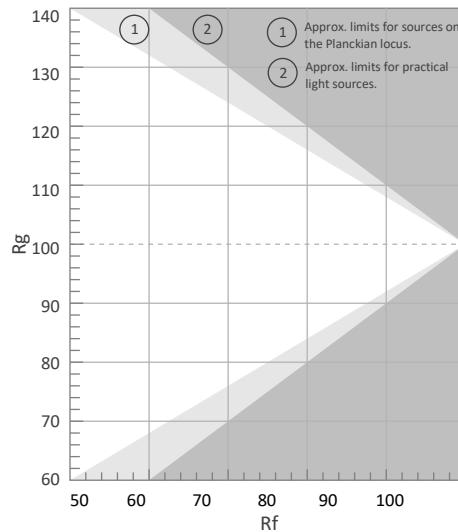
Color Distortion Graphic



Color Evaluation Sample



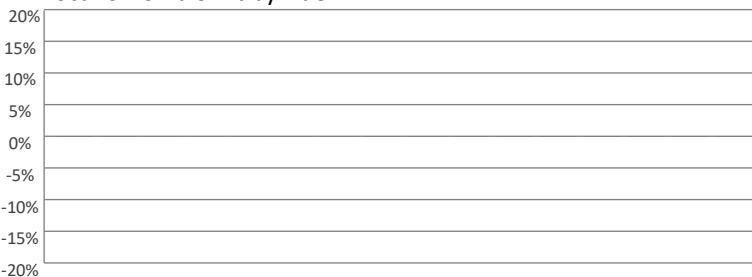
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Blue Only

Report Summary

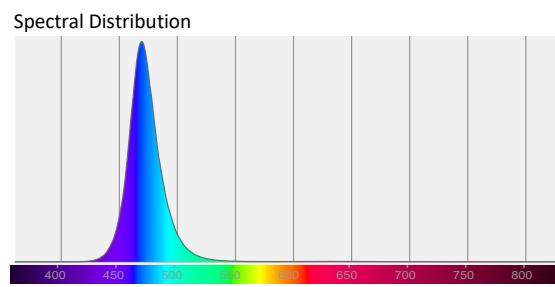
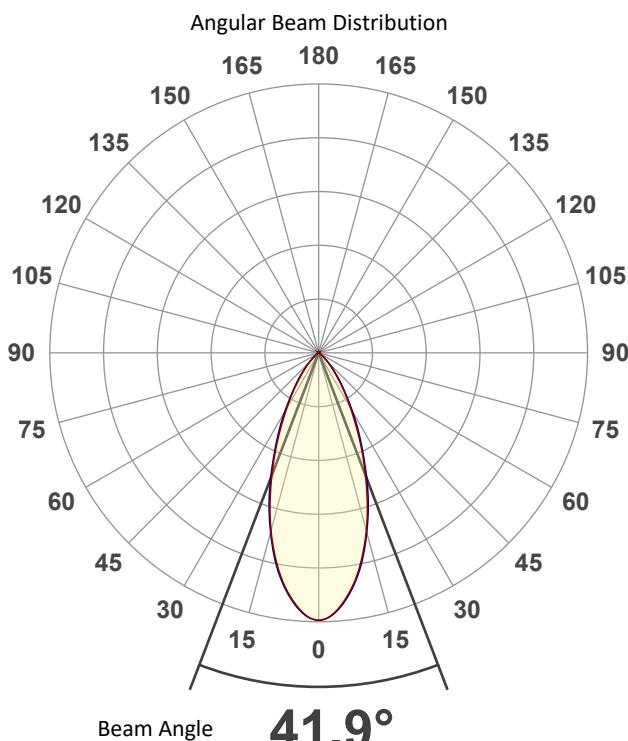
Measurements

Fixture Output: 50.5 lm
Fixture Peak: 83.4 cd
Fixture Efficacy: 3 lm/W
Intensity @ 5m: 3 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 41.9°
Field Angle (10%): 78.3°
Cutoff Angle (3%): 98.6°
Conditions
AC Supply: 119 V, 60 Hz
Power: 19.14 W
Current: 0.160 A
Power Factor: 0.85



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.125
Y: 0.088

Light Quality

CRI: 0.0

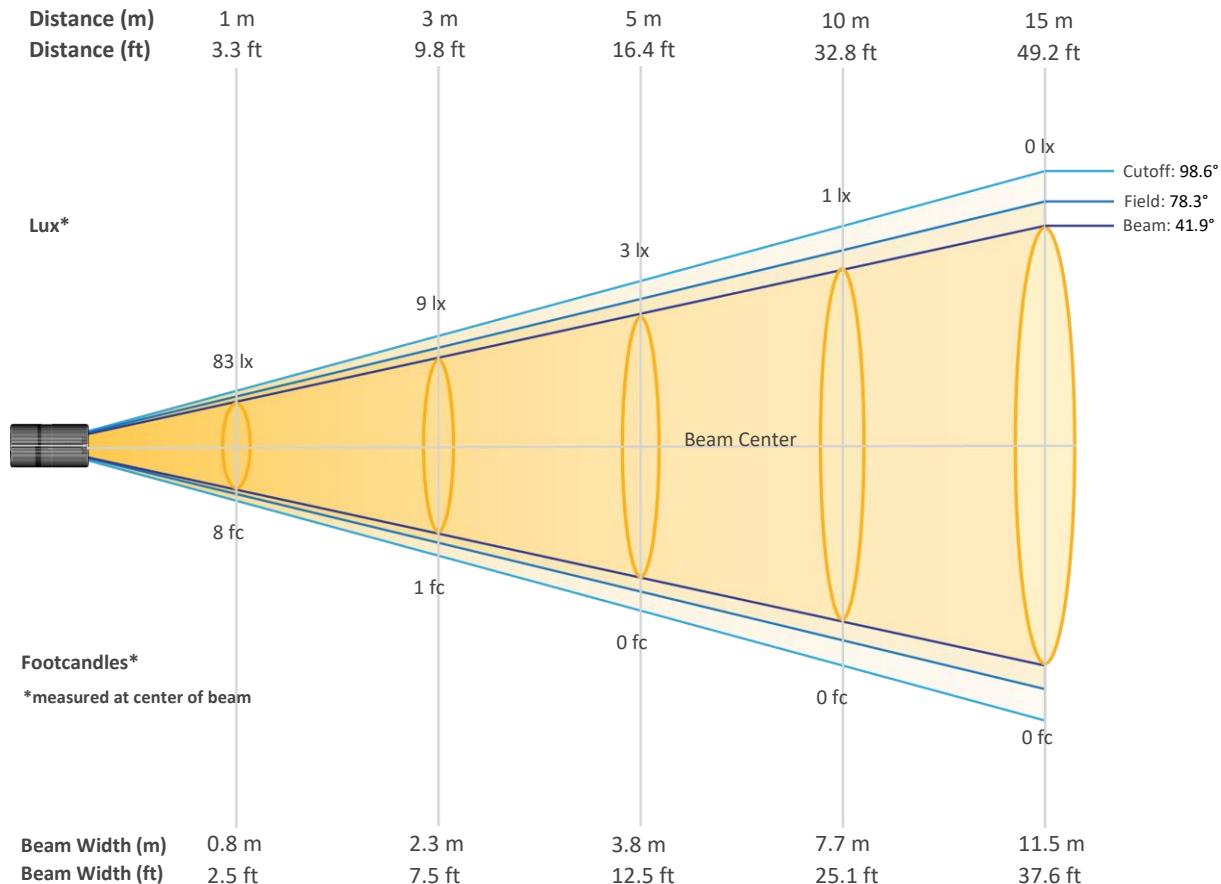
Color Temperature

0 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Blue Only

Beam Details

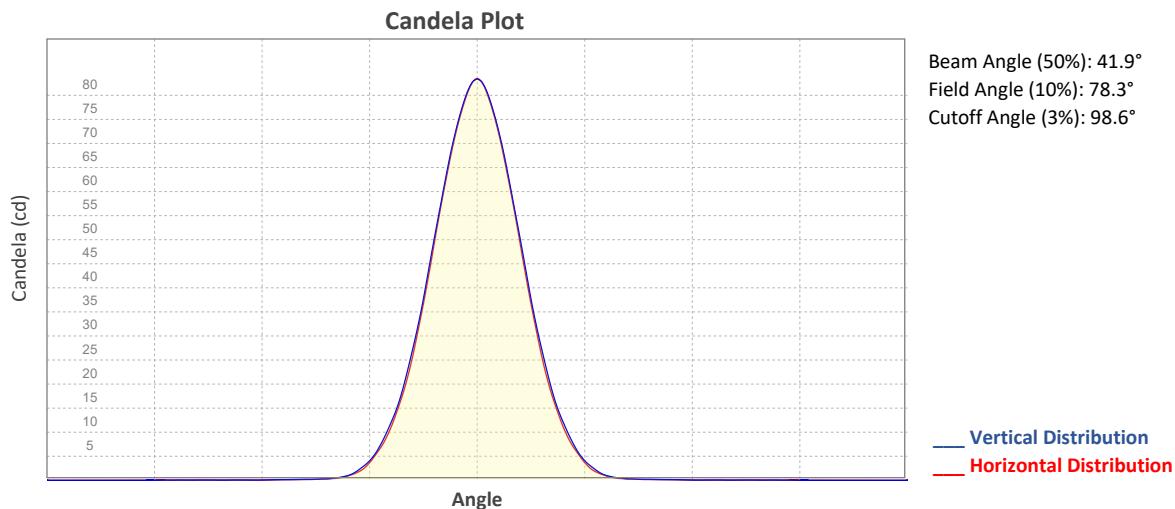


Beam Intensities from 1-20m (3.3-65.6ft)

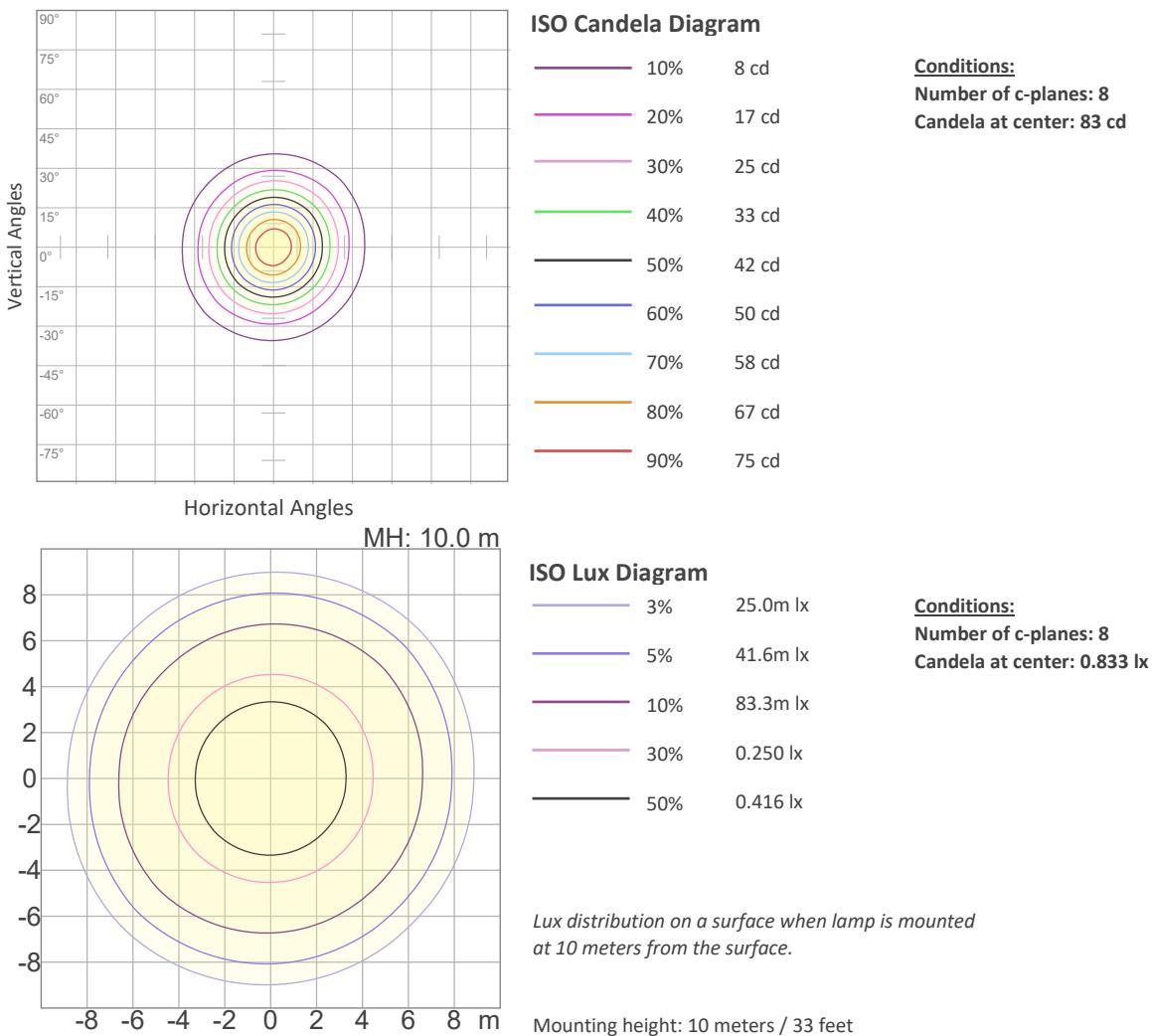
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	83	21	9	5	3	2	2	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	8	2	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Blue Only



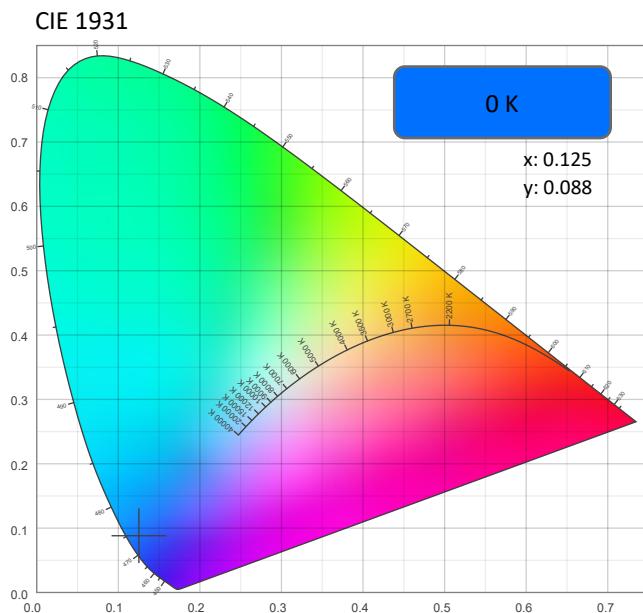
ISO Diagrams



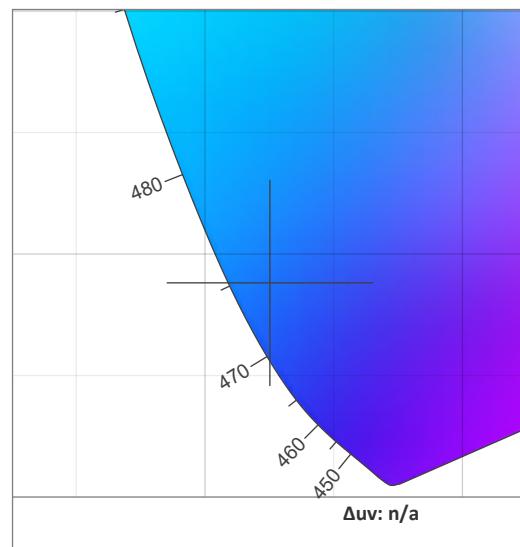
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Blue Only

Chromaticity



CIE 1931 - Zoom



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.125	0.088

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.088	0.132

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Blue Only

TM-30 Details

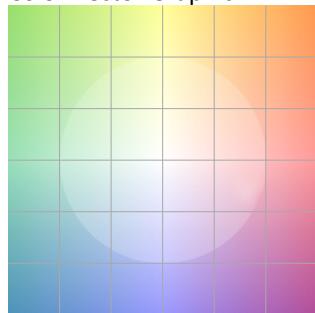
Rf 0.0

Fidelity Index
(Rg)

Rg 0.0

Gammut Index (Rg)

Color Vector Graphic



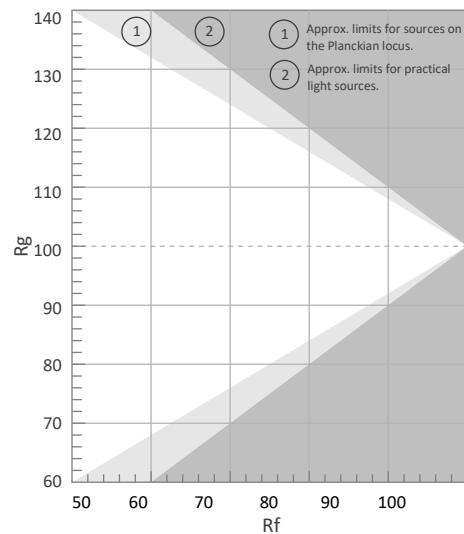
Color Distortion Graphic



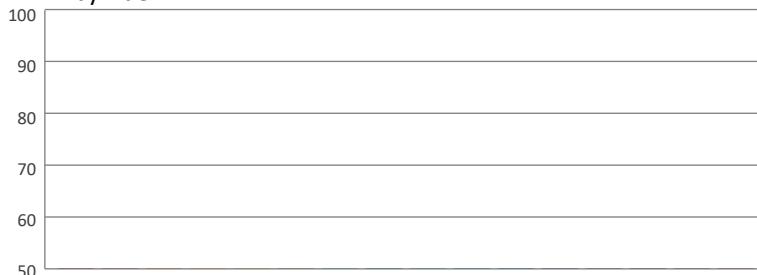
Color Evaluation Sample



Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Warm White Only

Report Summary

Measurements

Fixture Output: 118 lm
Fixture Peak: 210 cd
Fixture Efficacy: 8 lm/W
Intensity @ 5m: 8 lux
Color Temperature: 3037 K
CRI: 93.1 CRI R9 Value: 71.3
CQS: 91.0

TLCI: 92

TM-30 Rf: 91.7

TM-30 Rg: 102.1

Beam Angle (50%): 40.1°

Field Angle (10%): 76°

Cutoff Angle (3%): 96.5°

Conditions

AC Supply: 120 V, 60 Hz

Power: 18.57 W

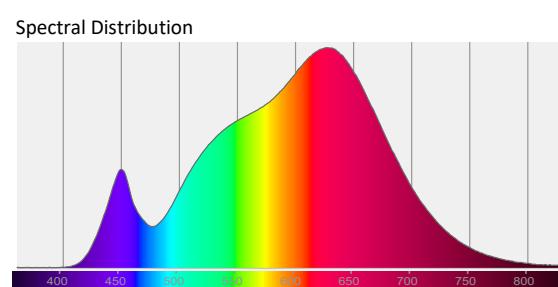
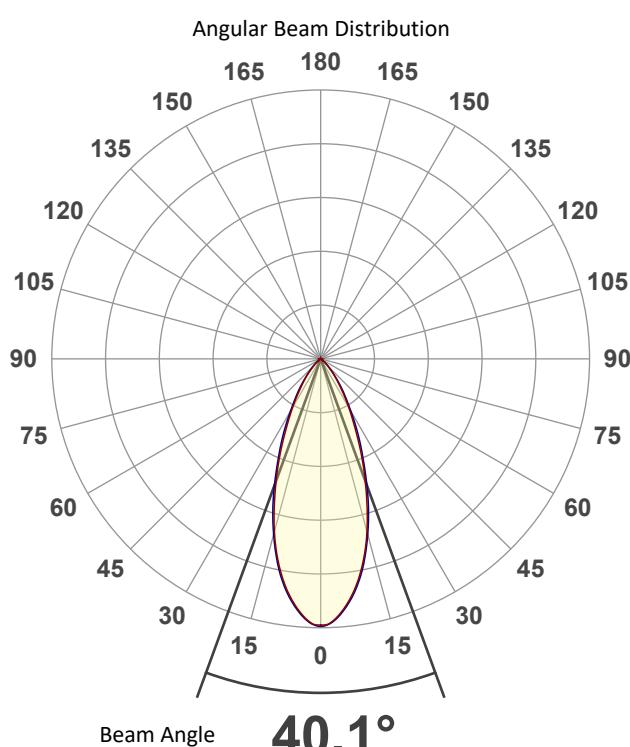
Current: 0.155 A

Power Factor: 0.84



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.435
Y: 0.404

Light Quality

CRI: 93.1

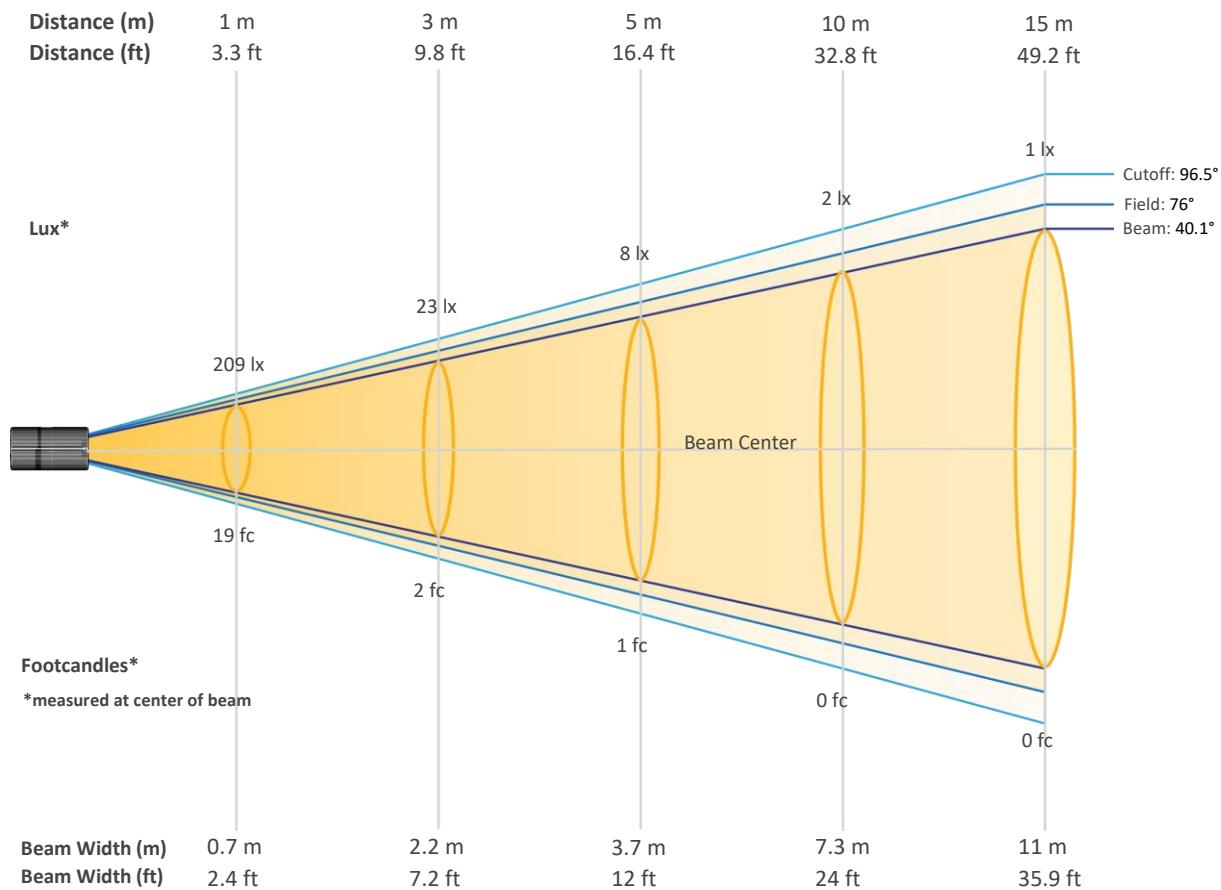
Color Temperature

3037 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Warm White Only

Beam Details

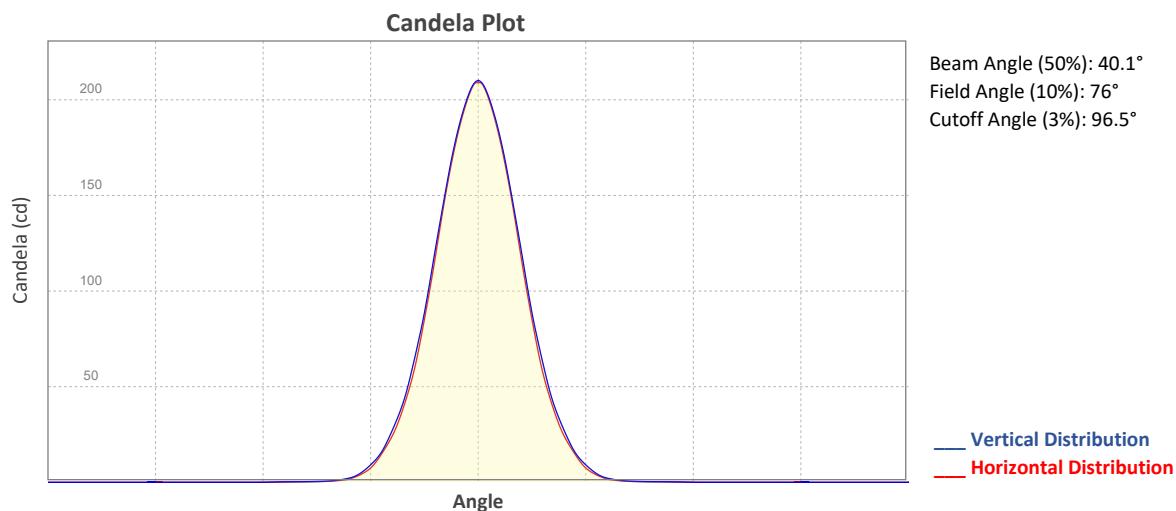


Beam Intensities from 1-20m (3.3-65.6ft)

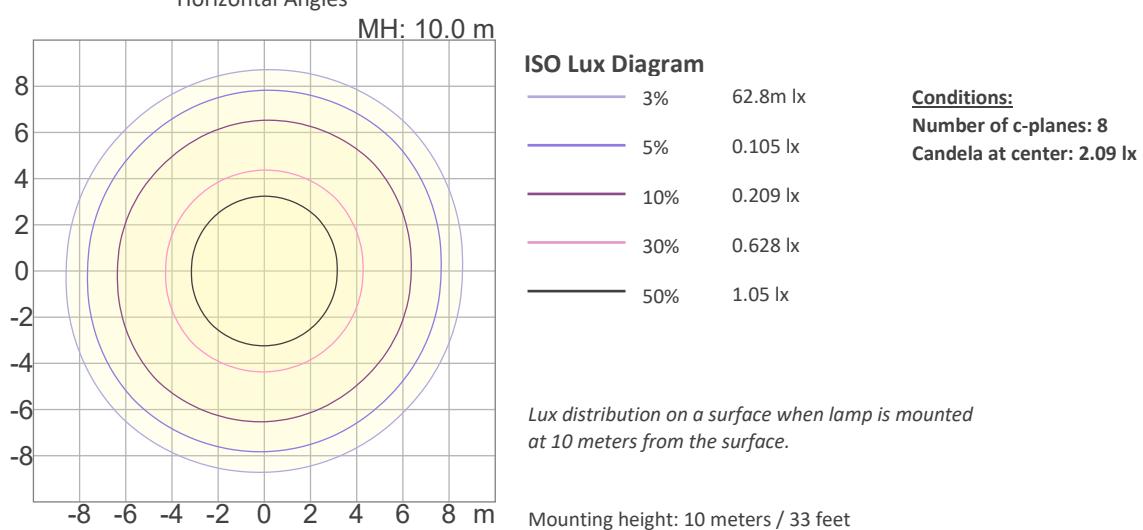
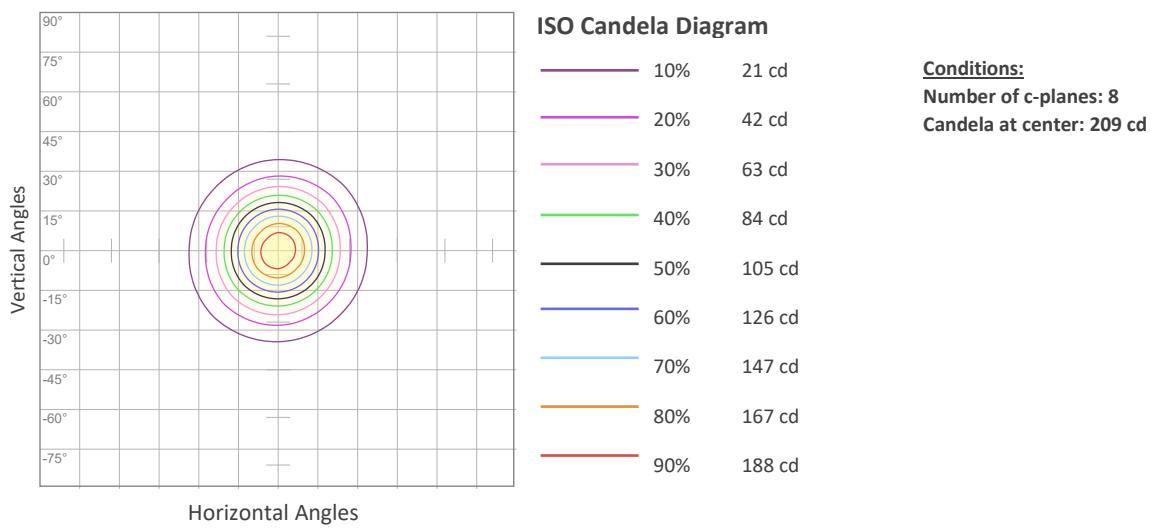
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	209	52	23	13	8	6	4	3	3	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	1	1	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	19	5	2	1	1	1	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Warm White Only



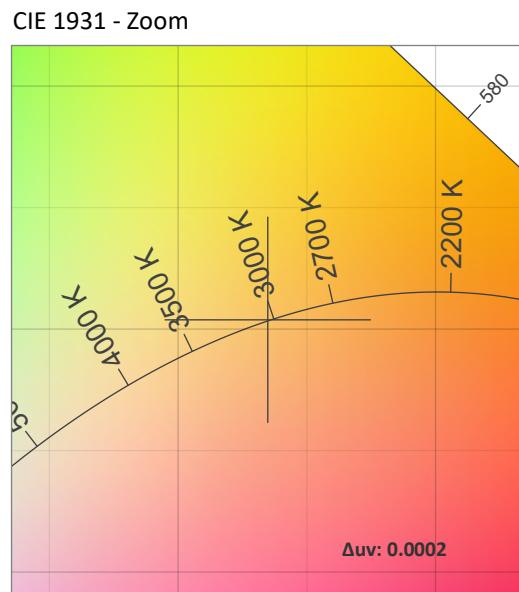
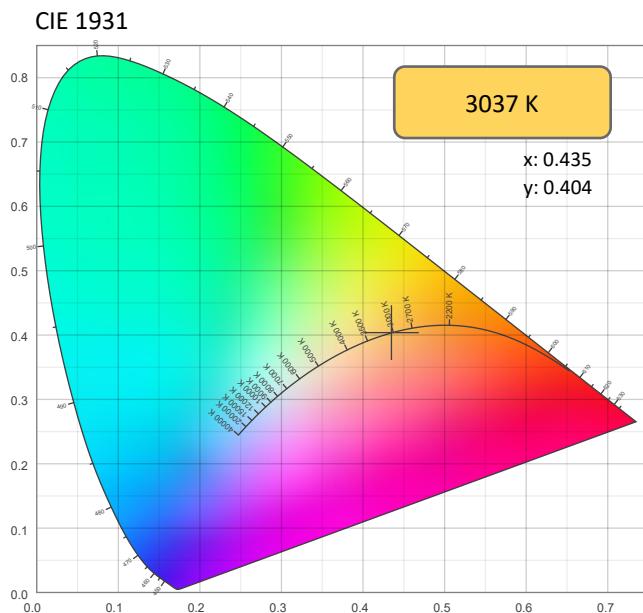
ISO Diagrams



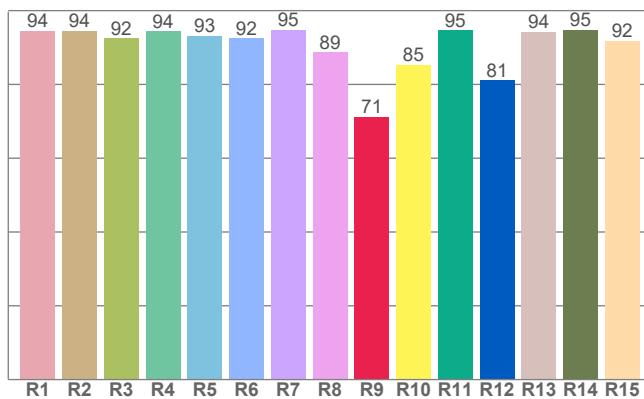
Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Warm White Only

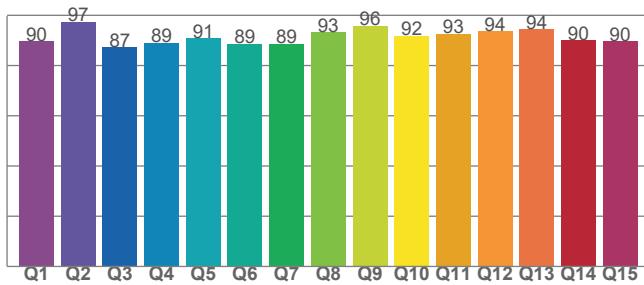
Chromaticity



CRI: 93.1 (R1-R8)



CQS: 91.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3037 K	0.435	0.404

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0002	0.404	0.249

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.1	71.3	91.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
92	91.7	102.1

Photometric & Chromaticity Report

Logic AR111 Downlight S: Medium Filter Lens with Honeycomb - Warm White Only

TM-30 Details

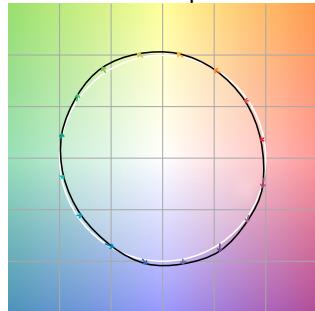
Rf 91.7

Fidelity Index
(Rg)

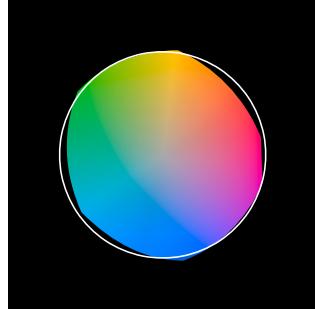
Rg 102.1

Gammut Index (Rg)

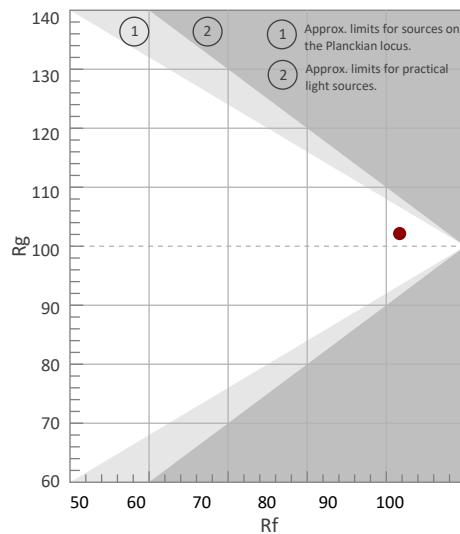
Color Vector Graphic



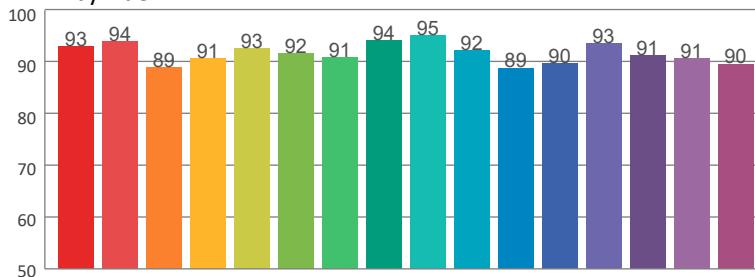
Color Distortion Graphic



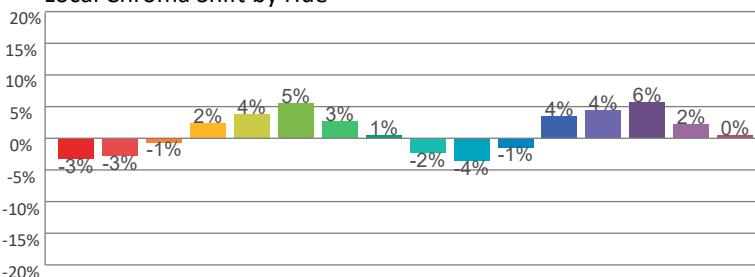
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-2%
2	94	-3%	2%
3	89	-1%	6%
4	91	2%	6%
5	93	4%	4%
6	92	5%	0%
7	91	3%	-5%
8	94	1%	-4%
9	95	-2%	-2%
10	92	-4%	3%
11	89	-1%	8%
12	90	4%	5%
13	93	4%	0%
14	91	6%	-4%
15	91	2%	-6%
16	90	0%	-8%



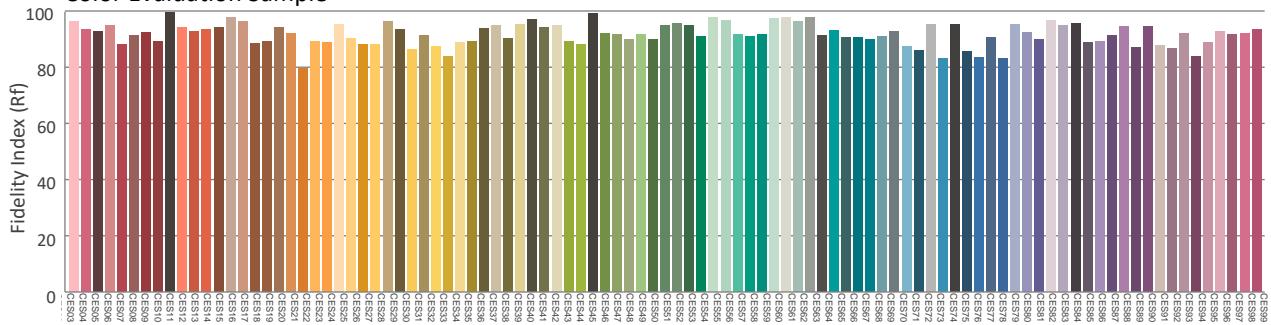
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 555 lm
Fixture Peak: 504 cd
Fixture Efficacy: 21 lm/W
Intensity @ 5m: 20 lux
Color Temperature: 5973 K
CRI: 49.7 CRI R9 Value: -145.1
CQS: 63.2

TLCI: 28

TM-30 Rf: 62.1

TM-30 Rg: 103.3

Beam Angle (50%): 57.5°

Field Angle (10%): 106.6°

Cutoff Angle (3%): 133.6°

Conditions

AC Supply: 118 V, 60 Hz

Power: 29.03 W

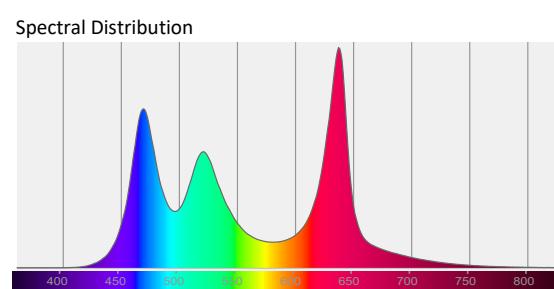
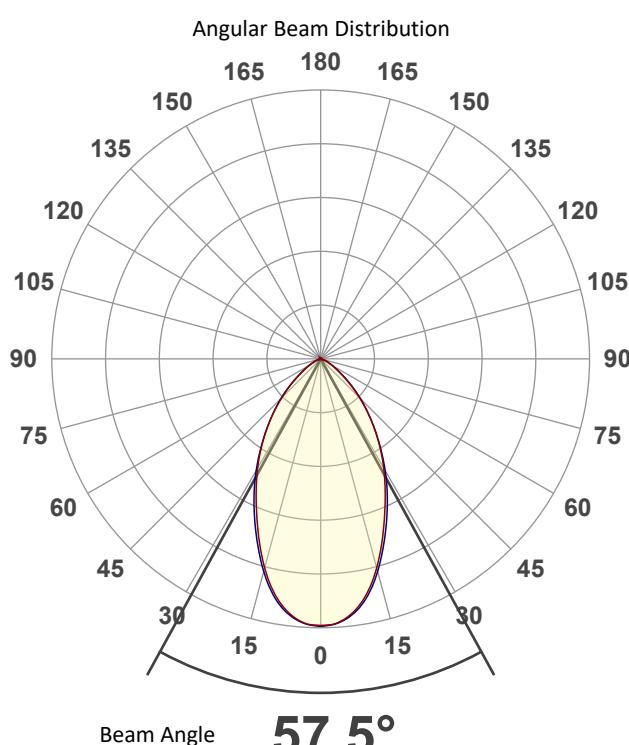
Current: 0.246 A

Power Factor: 0.93



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.322
Y: 0.336

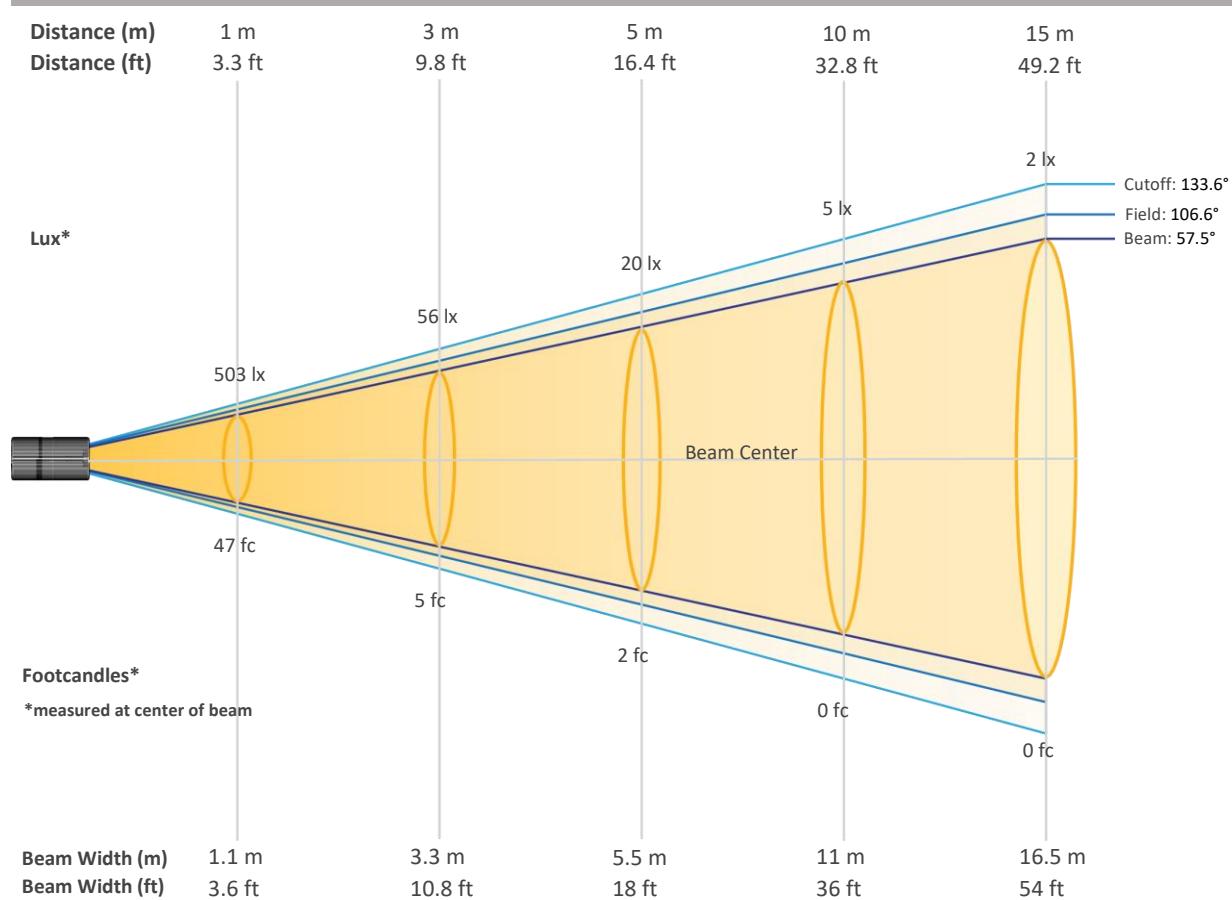
Light Quality
CRI: 49.7

Color Temperature
5973 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - RGBW - Full Power

Beam Details

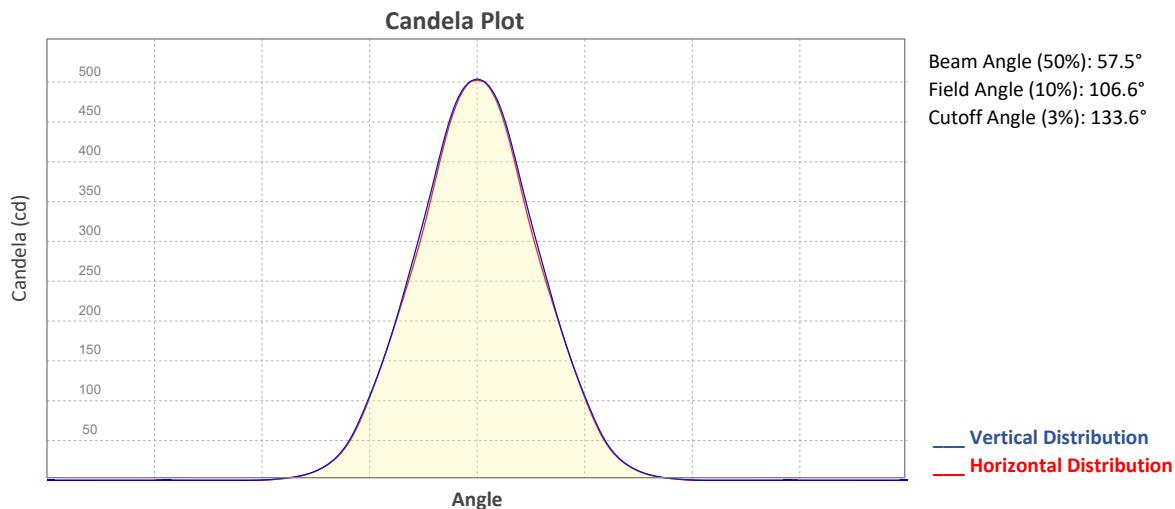


Beam Intensities from 1-20m (3.3-65.6ft)

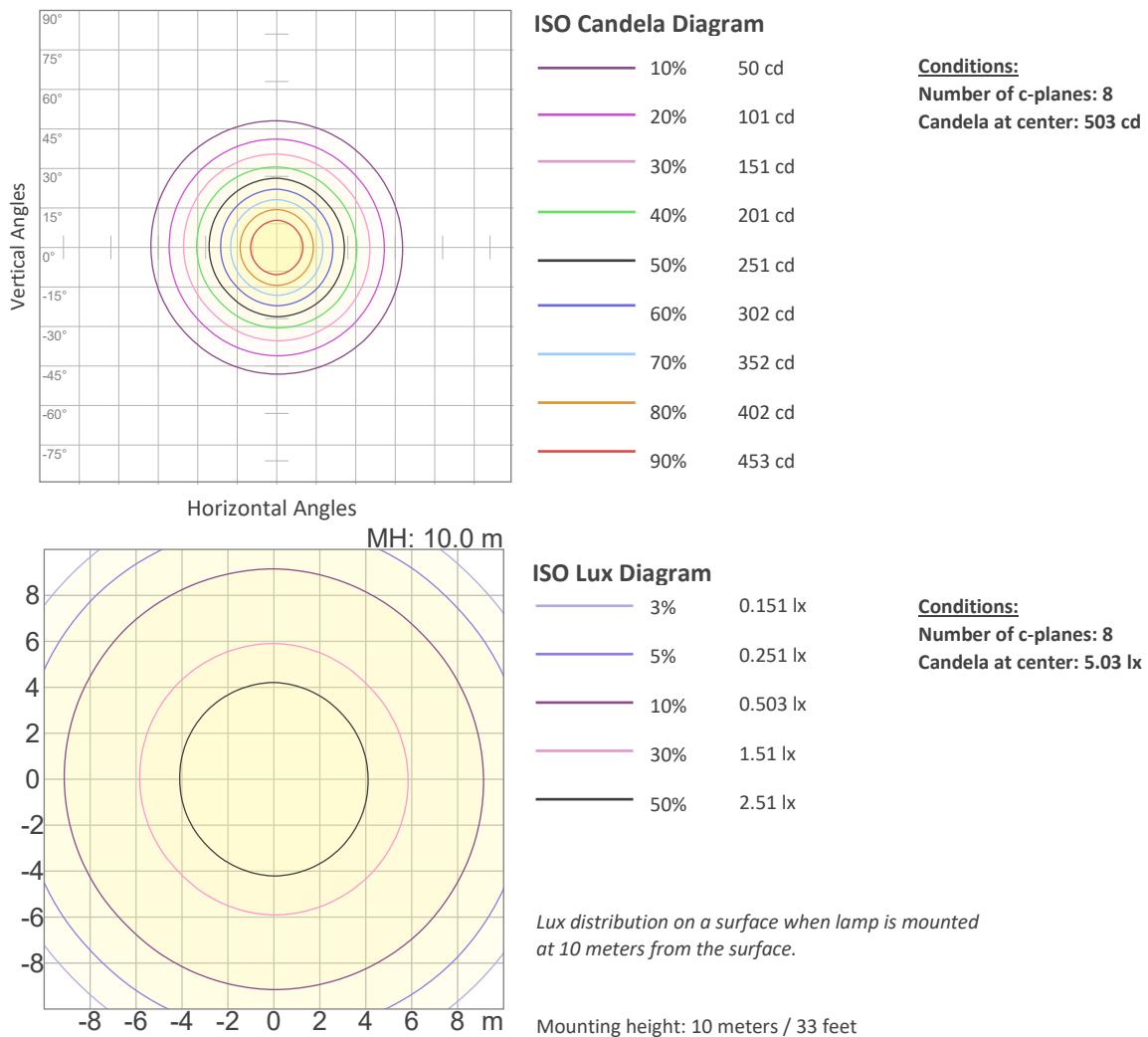
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	503	126	56	31	20	14	10	8	6	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	3	3	3	2	2	2	2	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	47	12	5	3	2	1	1	1	1	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - RGBW - Full Power



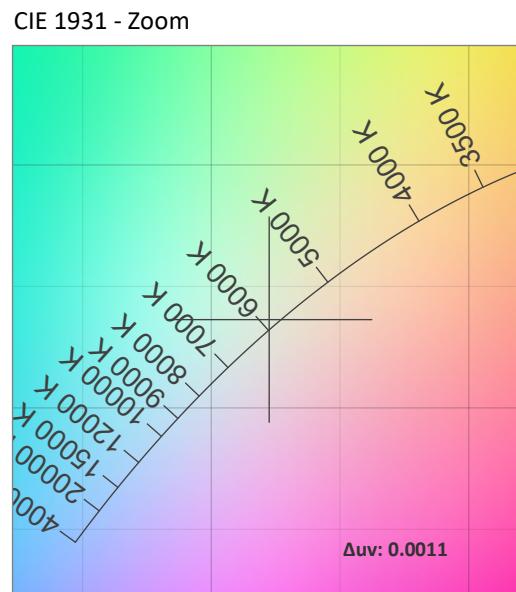
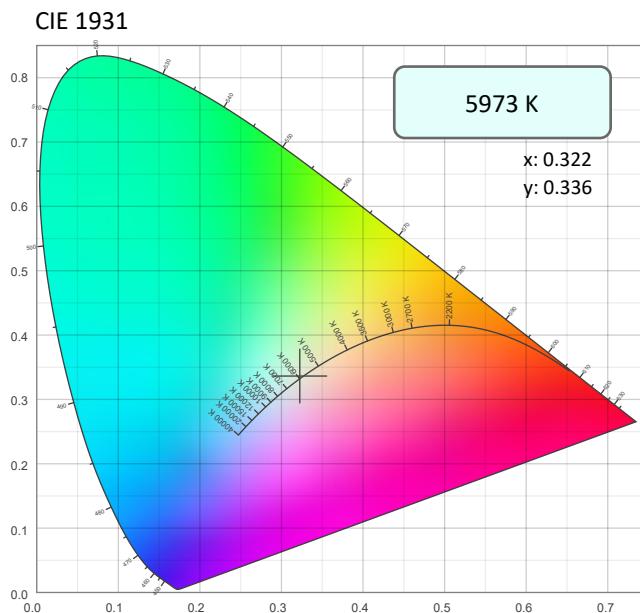
ISO Diagrams



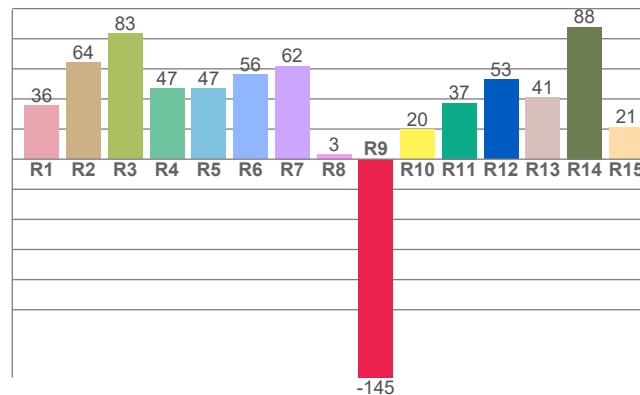
Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - RGBW - Full Power

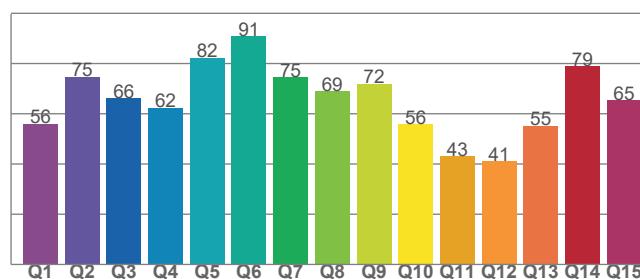
Chromaticity



CRI: 49.7 (R1-R8)



CQS: 63.2



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5973 K	0.322	0.336

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	γ	u
0.0011	0.336	0.202

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
49.7	-145.1	63.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
28	62.1	103.3

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Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - RGBW - Full Power

TM-30 Details

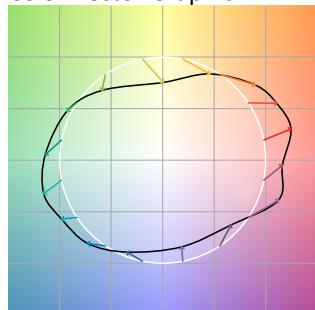
Rf 62.1

Fidelity Index
(Rg)

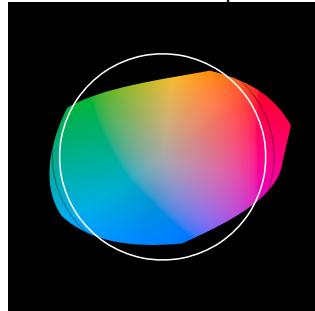
Rg 103.3

Gammut Index (Rg)

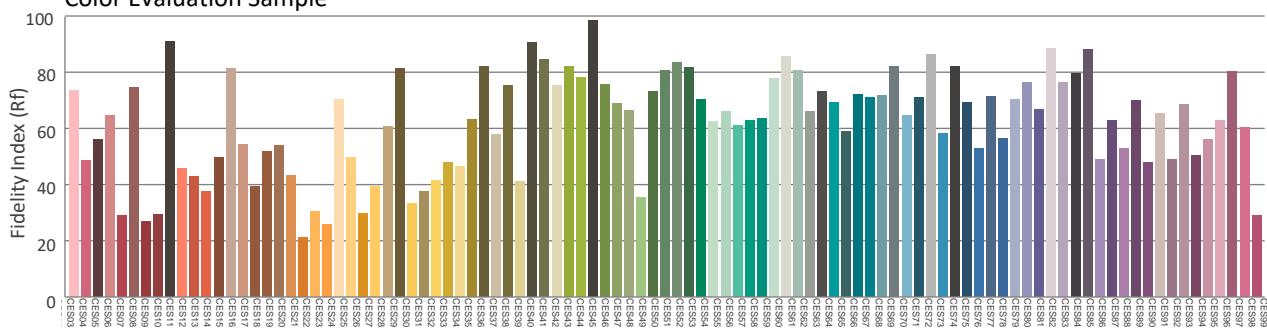
Color Vector Graphic



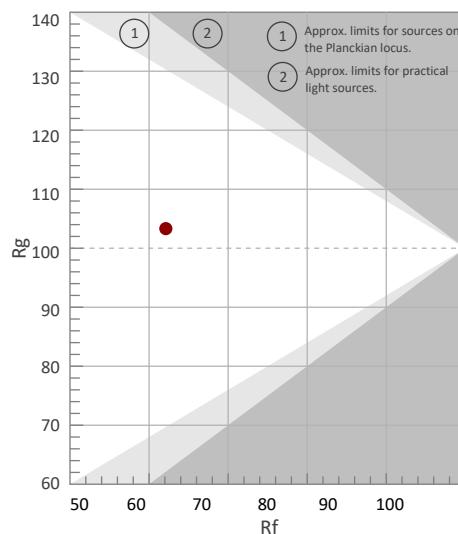
Color Distortion Graphic



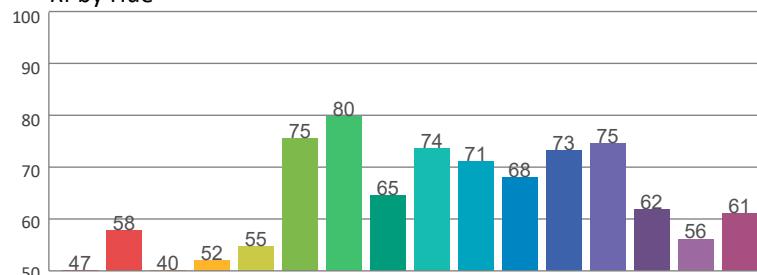
Color Evaluation Sample



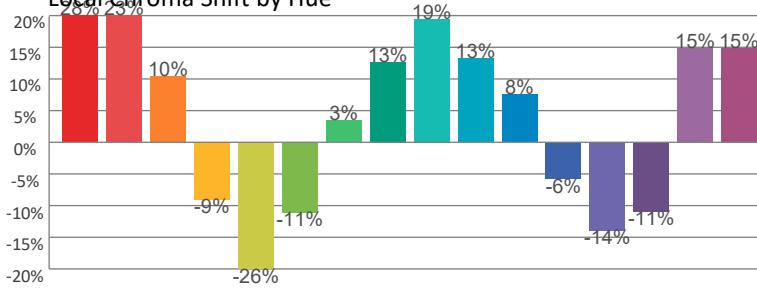
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	47	28%	5%
2	58	23%	-16%
3	40	10%	-34%
4	52	-9%	-29%
5	55	-26%	-15%
6	75	-11%	11%
7	80	3%	12%
8	65	13%	17%
9	74	19%	10%
10	71	13%	-7%
11	68	8%	-16%
12	73	-6%	-17%
13	75	-14%	2%
14	62	-11%	20%
15	56	15%	30%
16	61	15%	18%



Rf by Hue



Local Chroma Shift by Hue



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Red Only

Report Summary

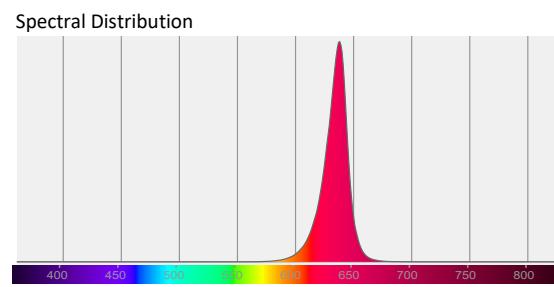
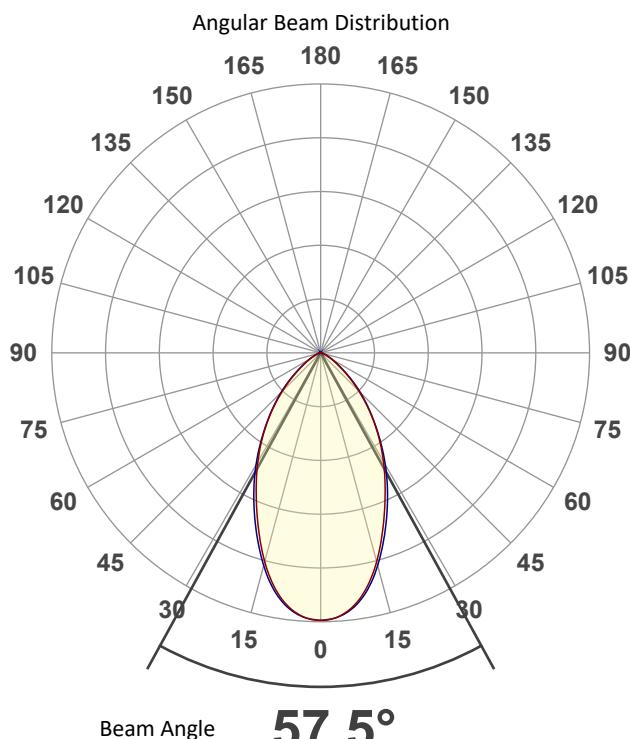
Measurements

Fixture Output: 129 lm
Fixture Peak: 118 cd
Fixture Efficacy: 8 lm/W
Intensity @ 5m: 5 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 57.5°
Field Angle (10%): 106.2°
Cutoff Angle (3%): 133°
Conditions
AC Supply: 119 V, 60 Hz
Power: 18.47 W
Current: 0.156 A
Power Factor: 0.85



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.700
Y: 0.299

Light Quality

CRI: 0.0

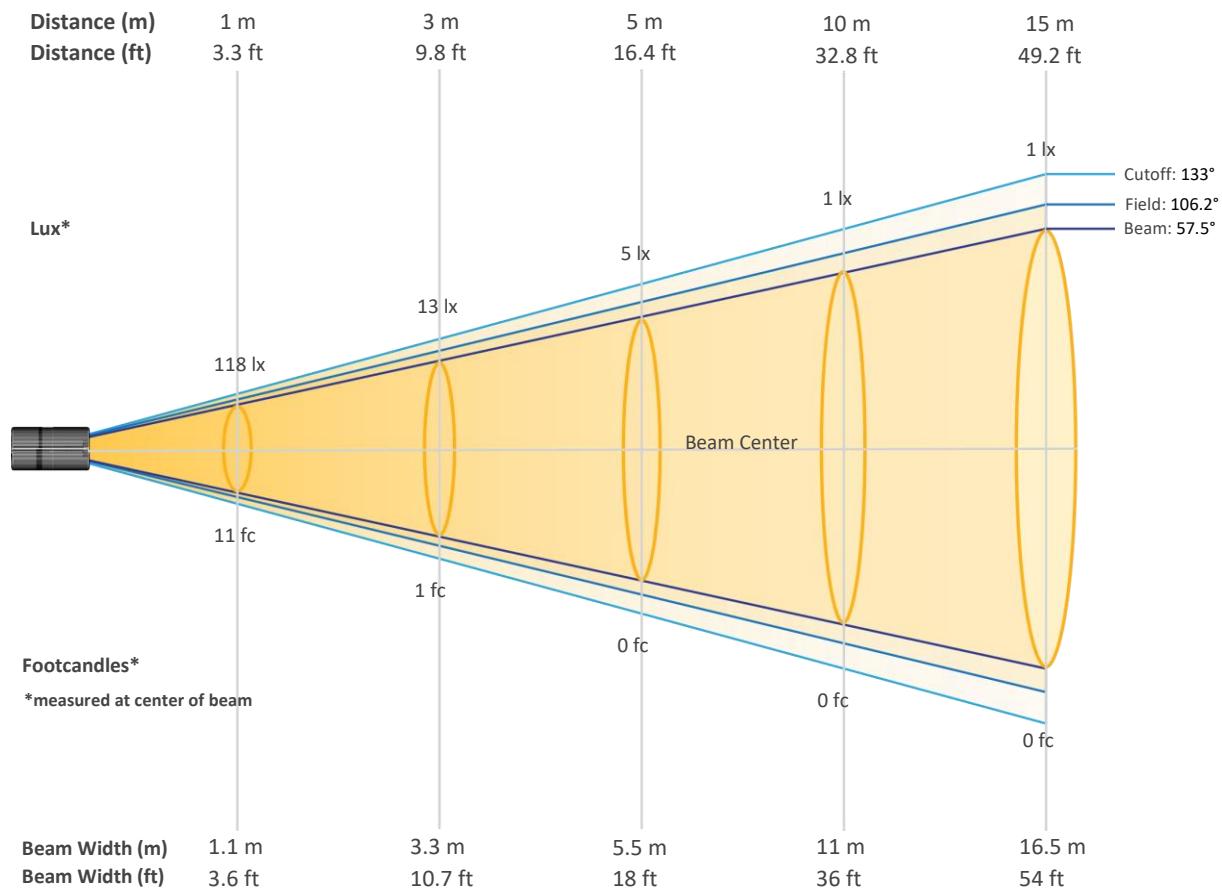
Color Temperature

0 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Red Only

Beam Details

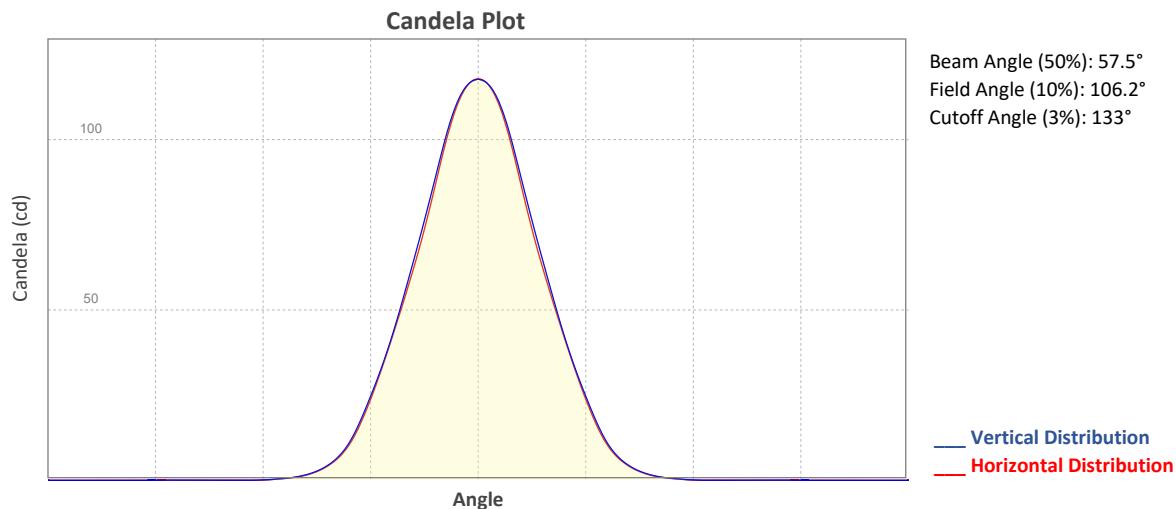


Beam Intensities from 1-20m (3.3-65.6ft)

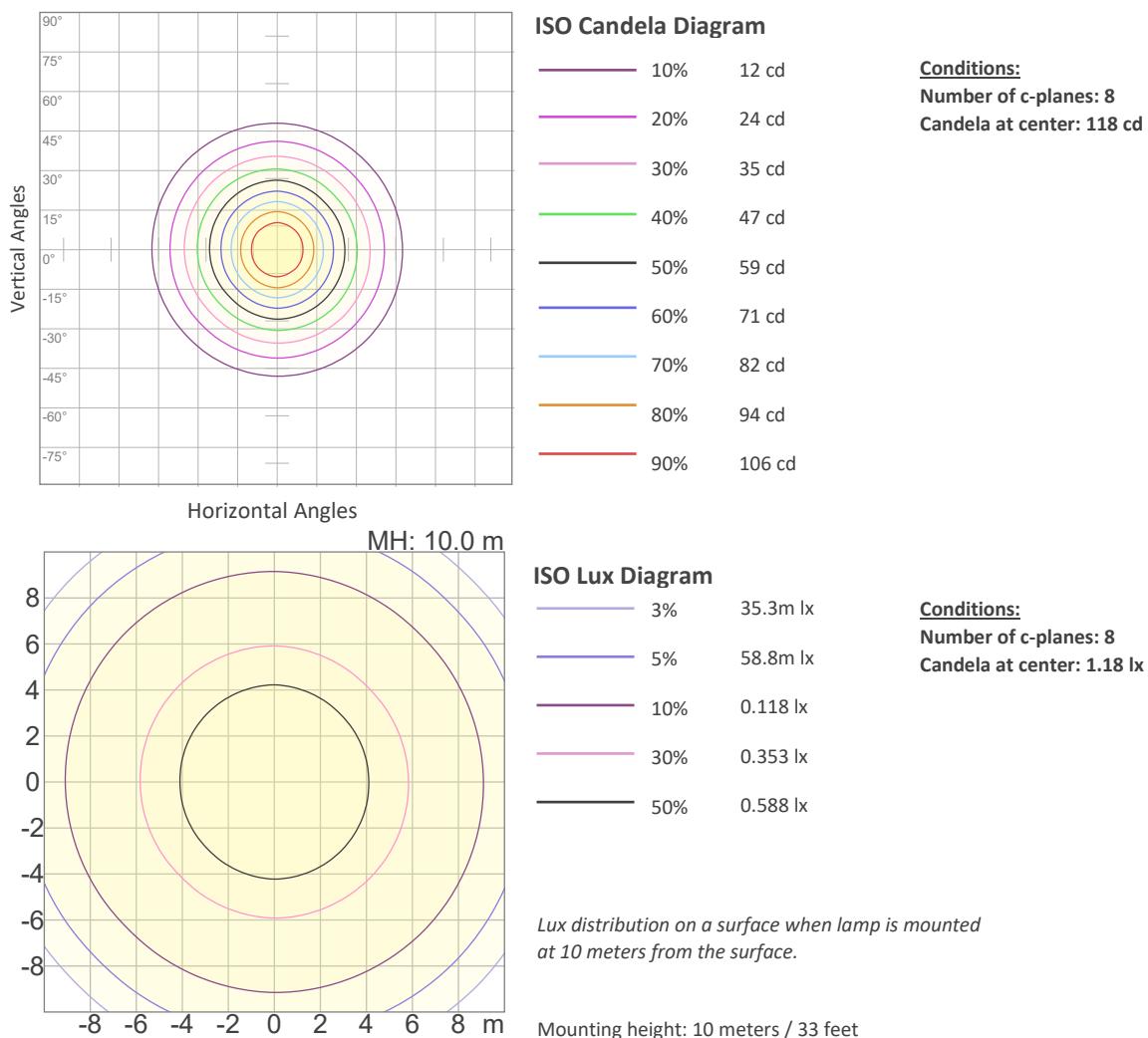
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	118	29	13	7	5	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	11	3	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Red Only



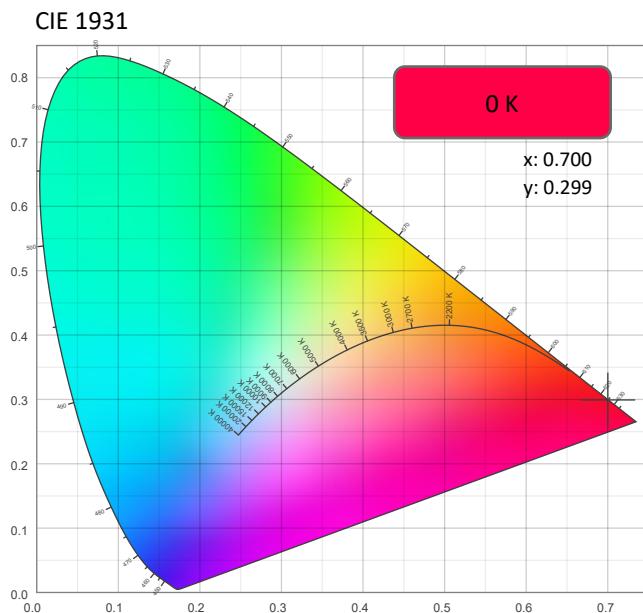
ISO Diagrams



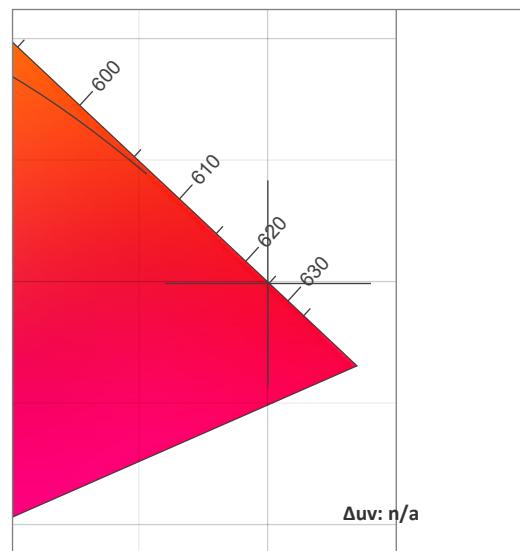
Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Red Only

Chromaticity



CIE 1931 - Zoom



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.700	0.299

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.299	0.540

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Red Only

TM-30 Details

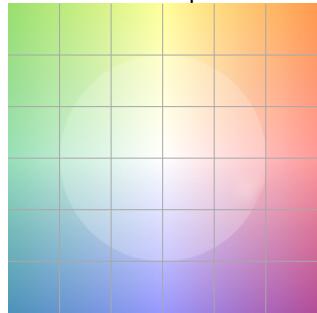
Rf 0.0

Fidelity Index
(Rg)

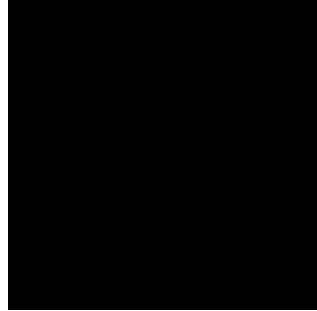
Rg 0.0

Gammut Index (Rg)

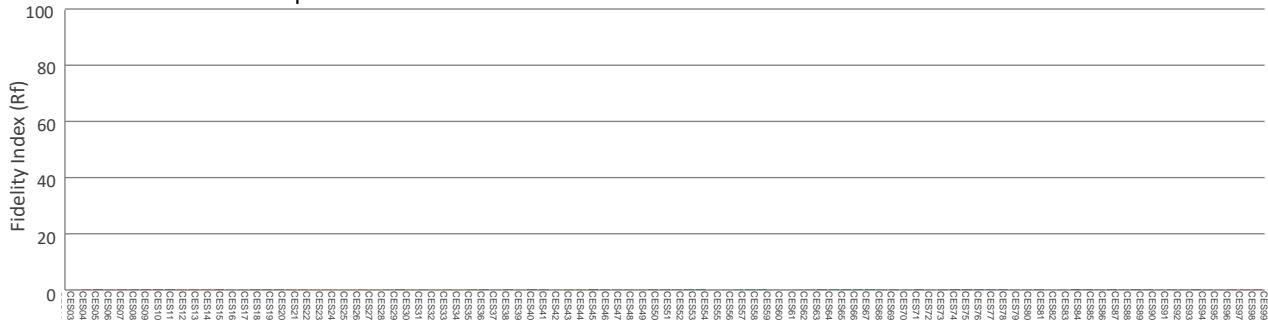
Color Vector Graphic



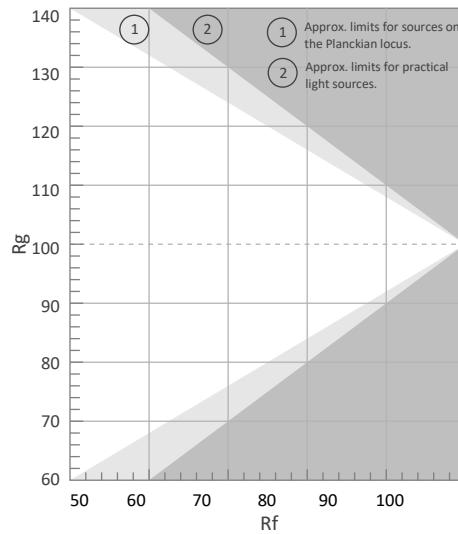
Color Distortion Graphic



Color Evaluation Sample



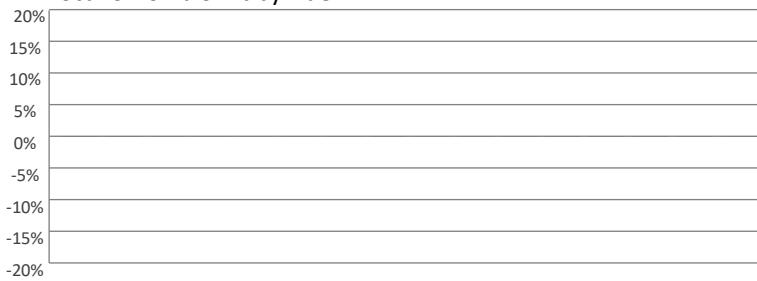
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Green Only

Report Summary

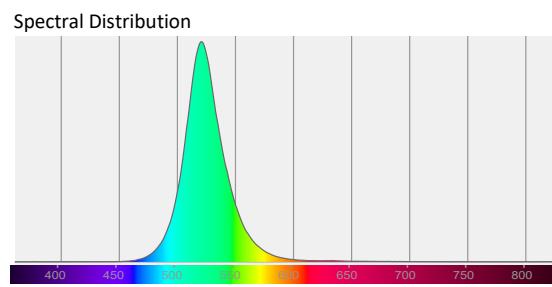
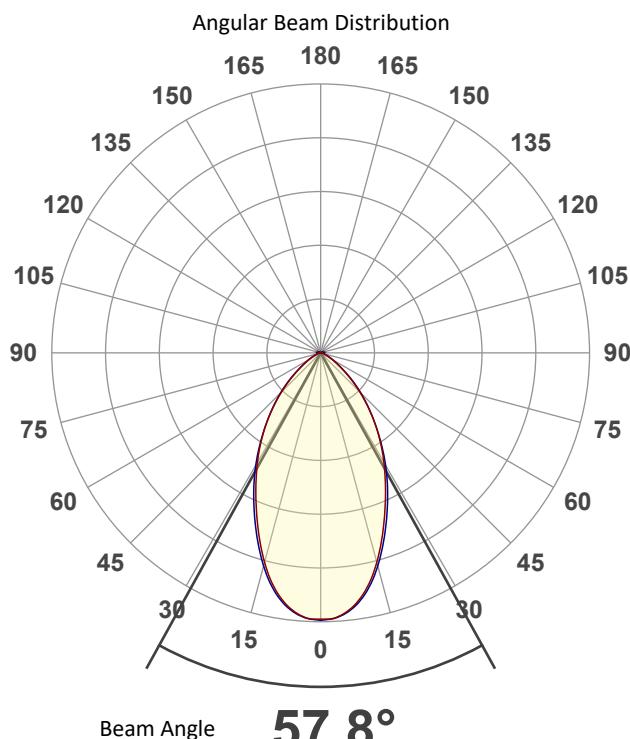
Measurements

Fixture Output: 263 lm
Fixture Peak: 237 cd
Fixture Efficacy: 16 lm/W
Intensity @ 5m: 9 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 57.8°
Field Angle (10%): 106.9°
Cutoff Angle (3%): 133.8°
Conditions
AC Supply: 118 V, 60 Hz
Power: 18.91 W
Current: 0.160 A
Power Factor: 0.85



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.171
Y: 0.716

Light Quality

CRI: 0.0

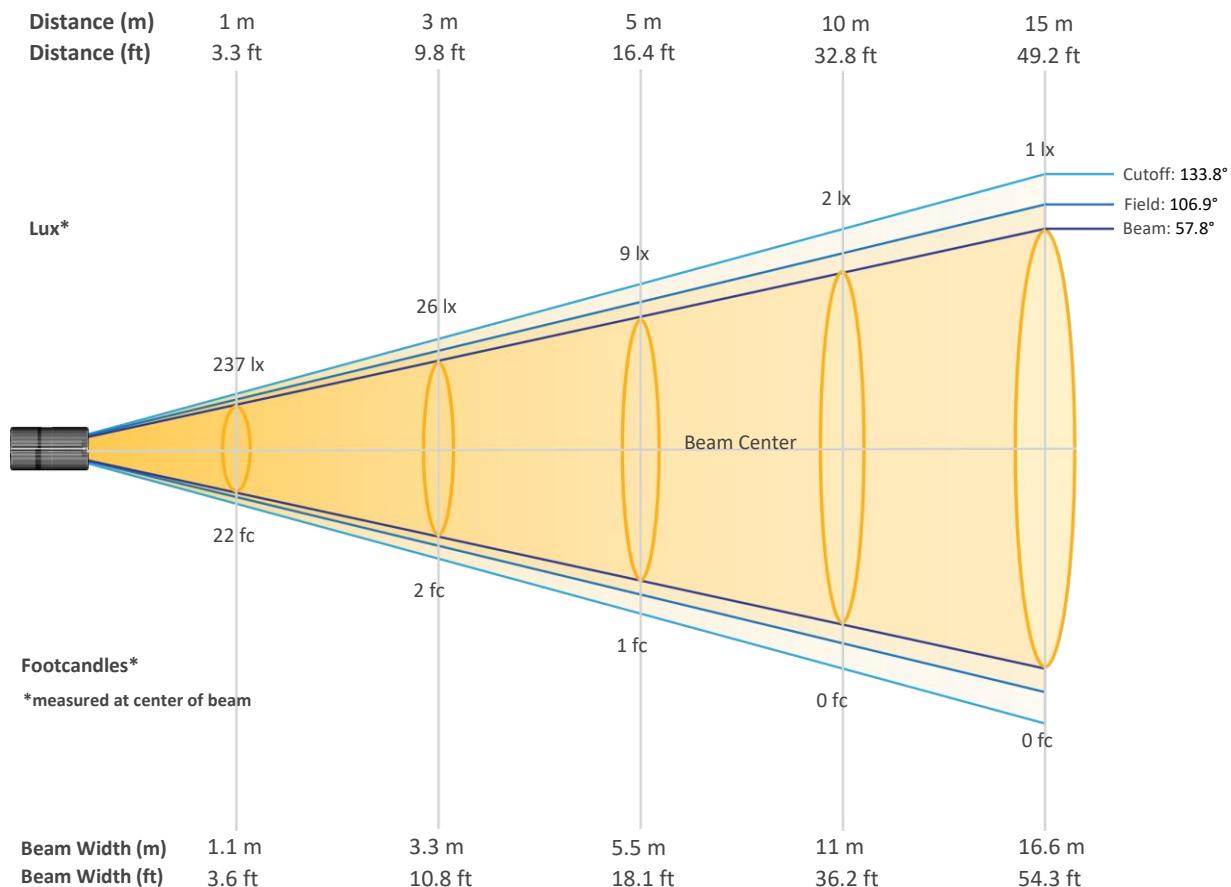
Color Temperature

0 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Green Only

Beam Details

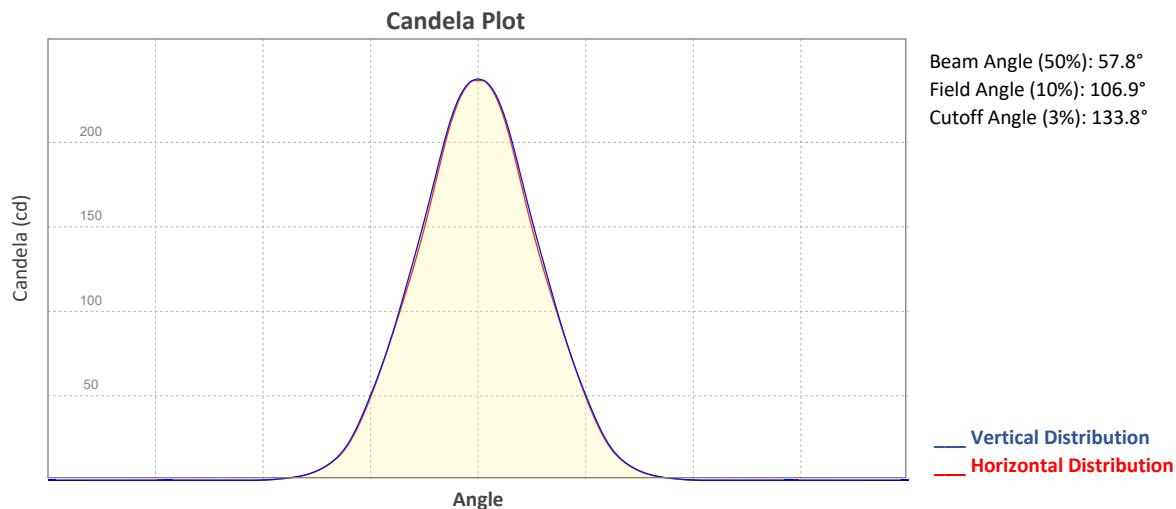


Beam Intensities from 1-20m (3.3-65.6ft)

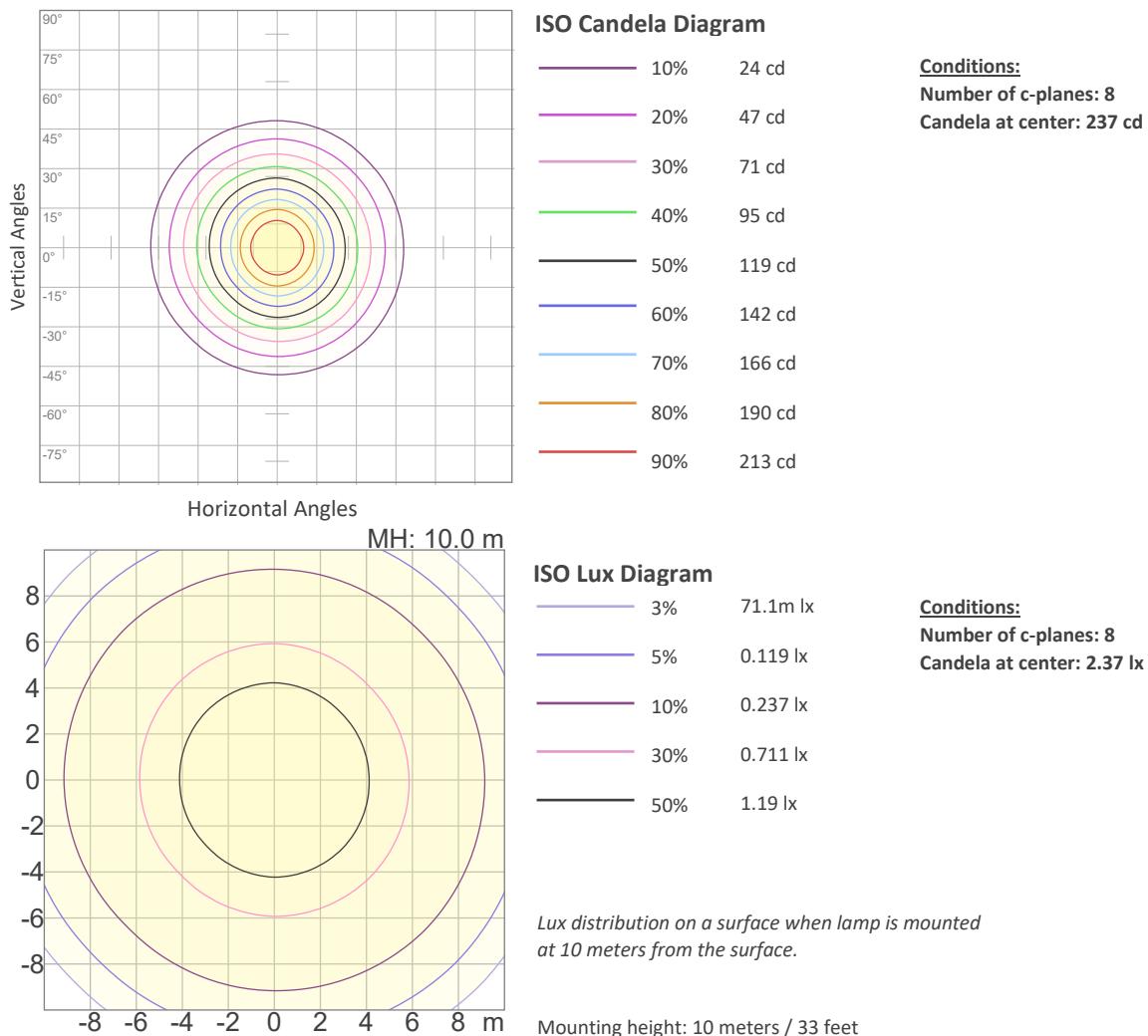
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	237	59	26	15	9	7	5	4	3	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	1	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	22	6	2	1	1	1	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Green Only



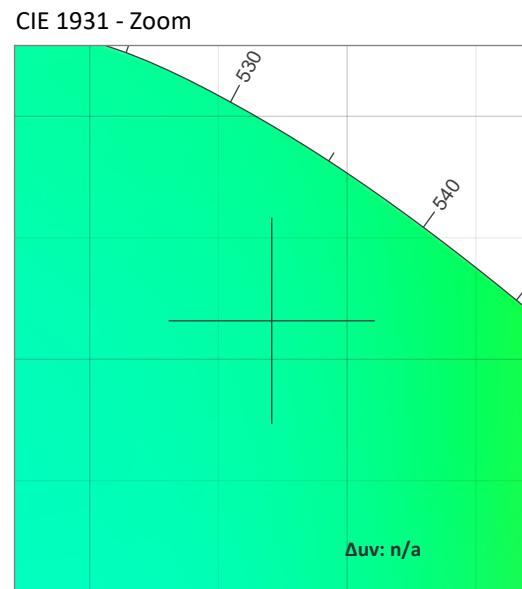
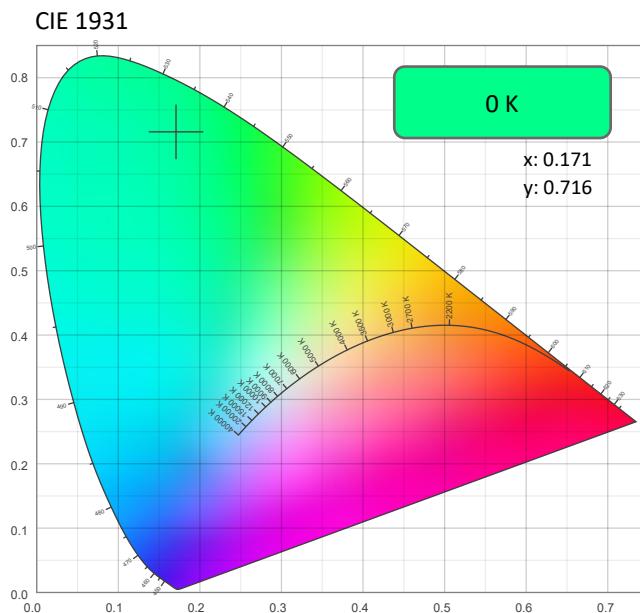
ISO Diagrams



Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Green Only

Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.171	0.716

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.716	0.061

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Green Only

TM-30 Details

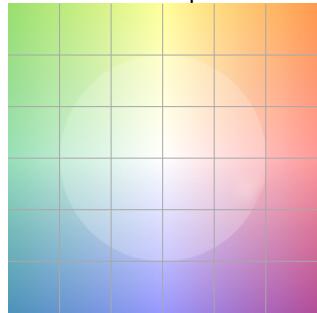
Rf 0.0

Fidelity Index
(Rg)

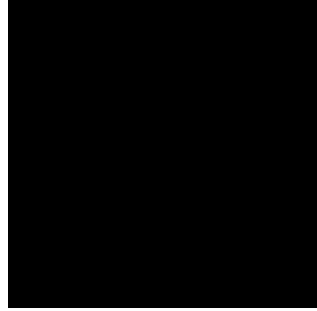
Rg 0.0

Gammut Index (Rg)

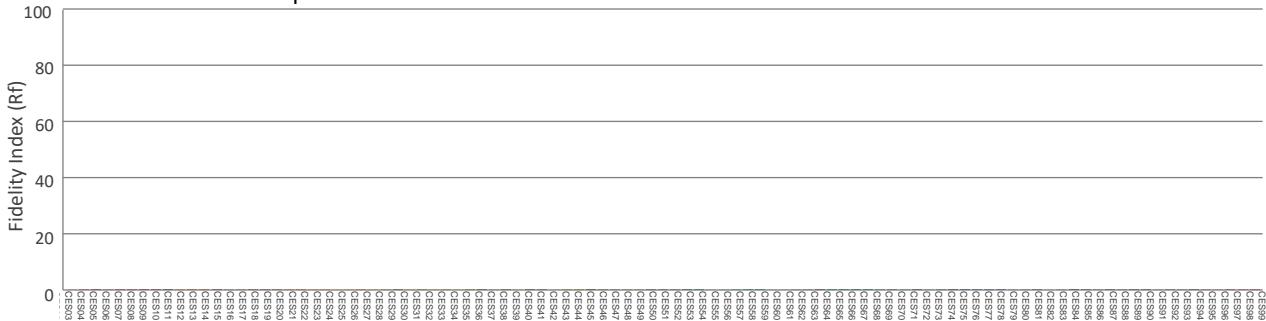
Color Vector Graphic



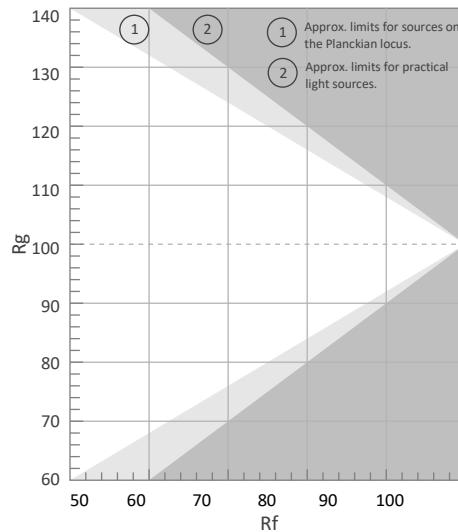
Color Distortion Graphic



Color Evaluation Sample



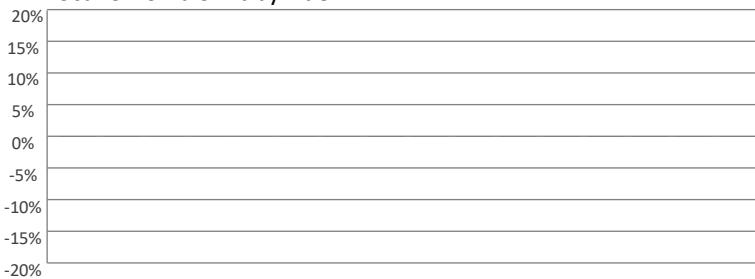
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Blue Only

Report Summary

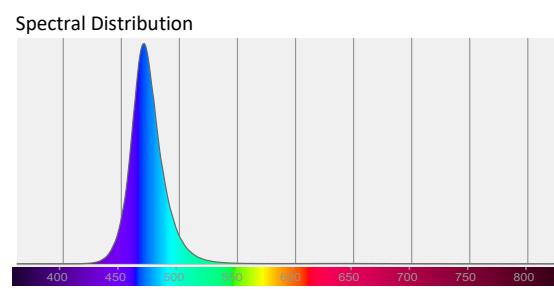
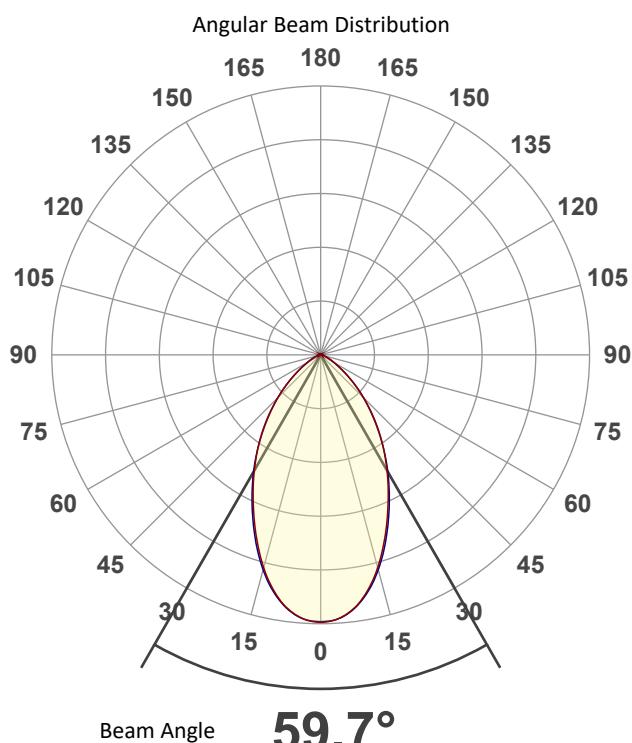
Measurements

Fixture Output: 84.3 lm
Fixture Peak: 72.4 cd
Fixture Efficacy: 5 lm/W
Intensity @ 5m: 3 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 59.7°
Field Angle (10%): 109.4°
Cutoff Angle (3%): 136.1°
Conditions
AC Supply: 119 V, 60 Hz
Power: 19.05 W
Current: 0.161 A
Power Factor: 0.85



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.125
Y: 0.088

Light Quality

CRI: 0.0

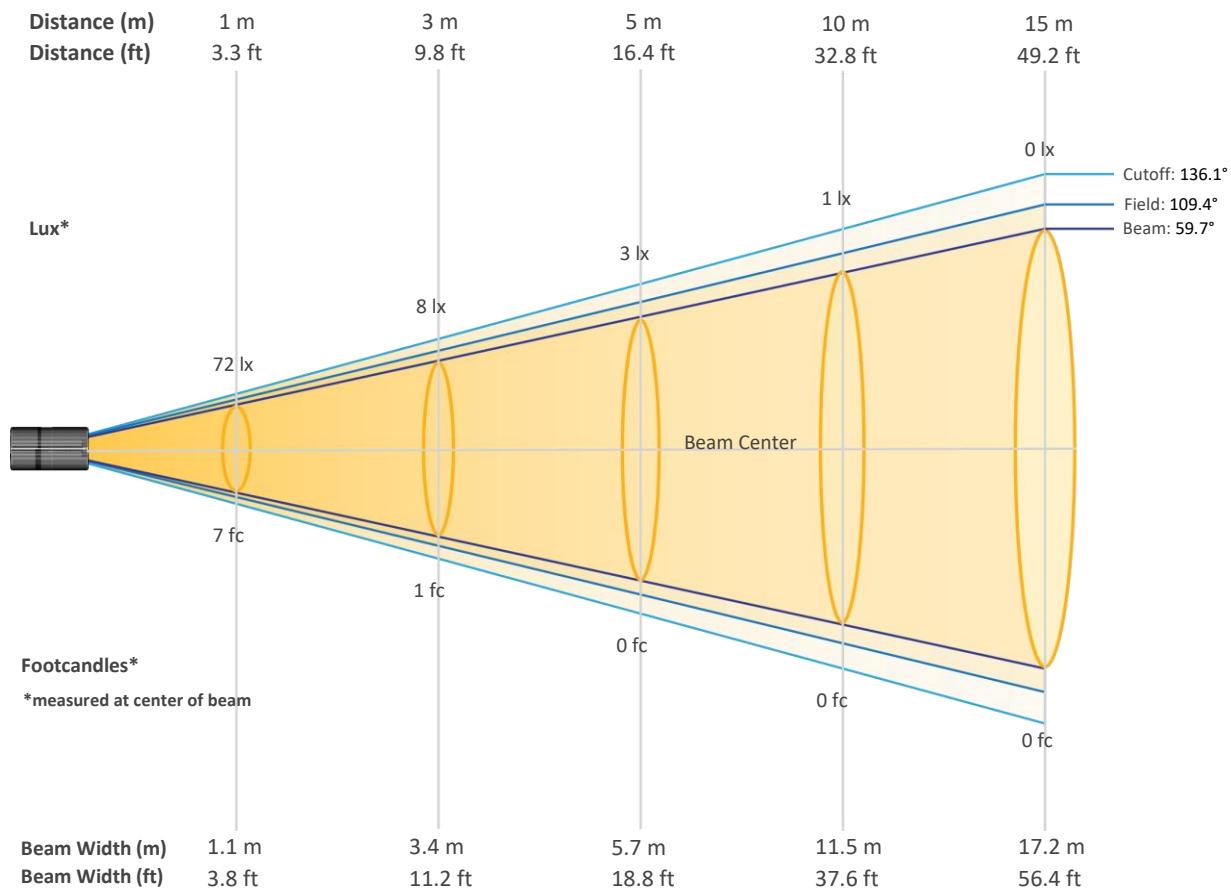
Color Temperature

0 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Blue Only

Beam Details

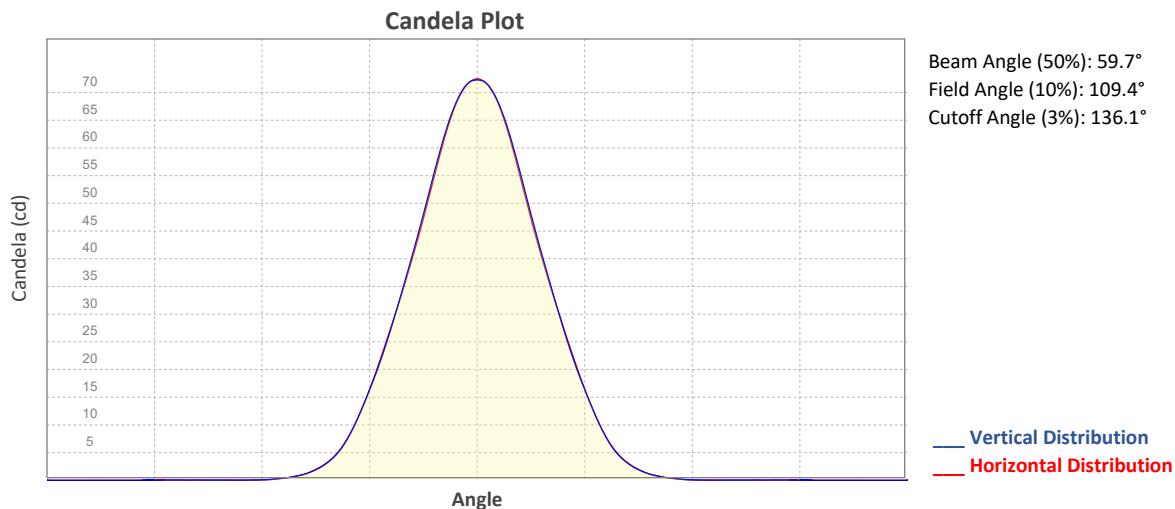


Beam Intensities from 1-20m (3.3-65.6ft)

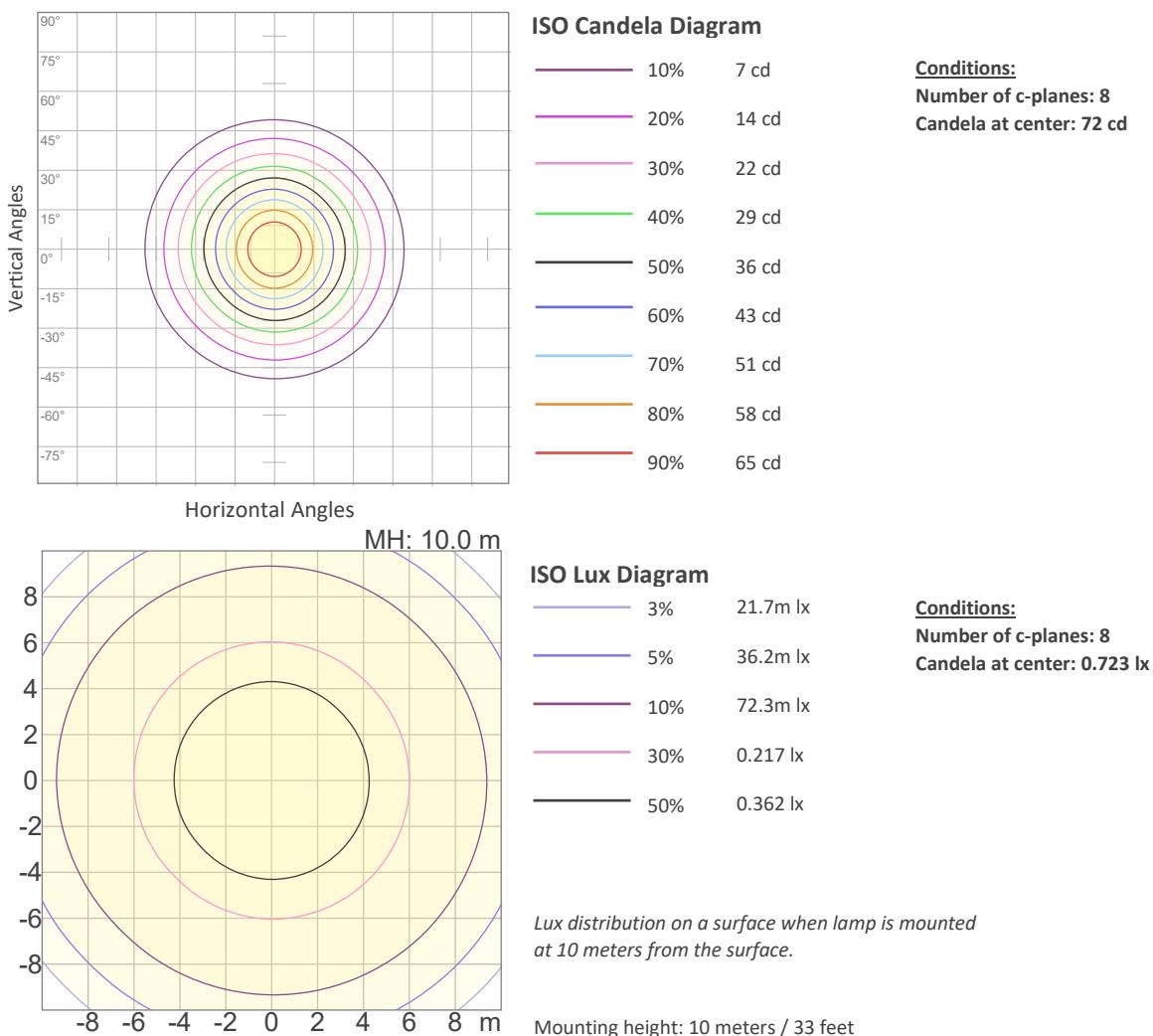
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	72	18	8	5	3	2	1	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	7	2	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Blue Only



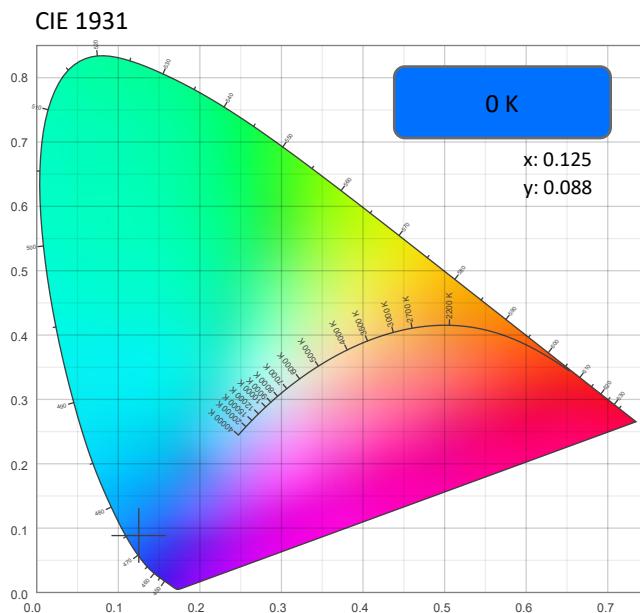
ISO Diagrams



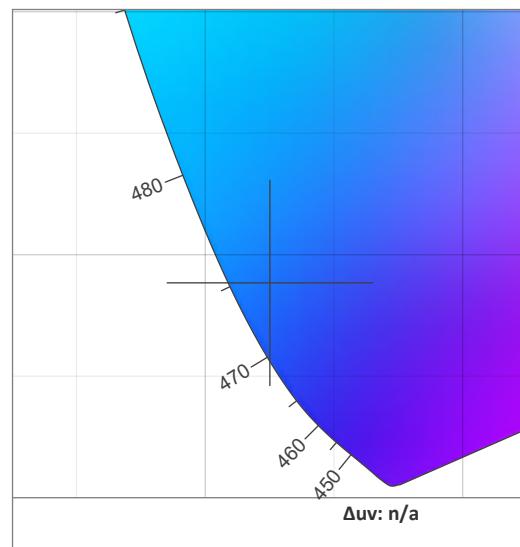
Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Blue Only

Chromaticity



CIE 1931 - Zoom



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.125	0.088

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.088	0.131

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Blue Only

TM-30 Details

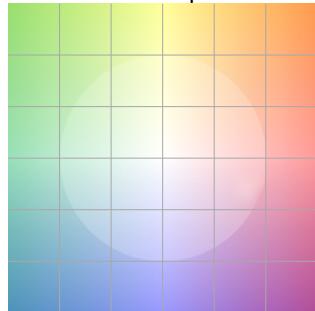
Rf 0.0

Fidelity Index
(Rg)

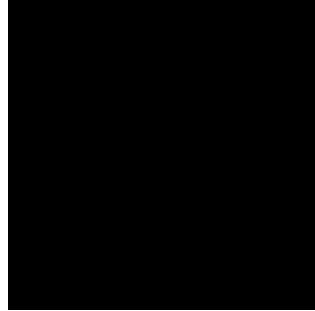
Rg 0.0

Gammut Index (Rg)

Color Vector Graphic



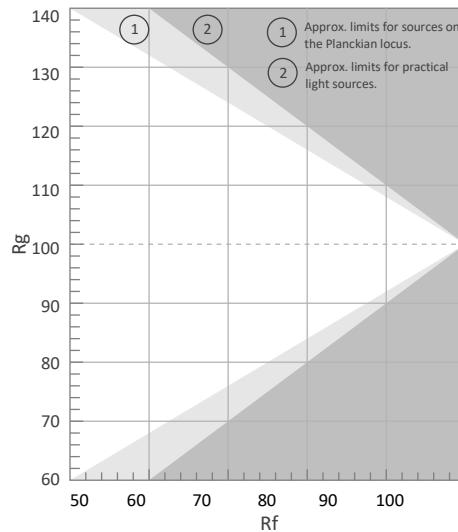
Color Distortion Graphic



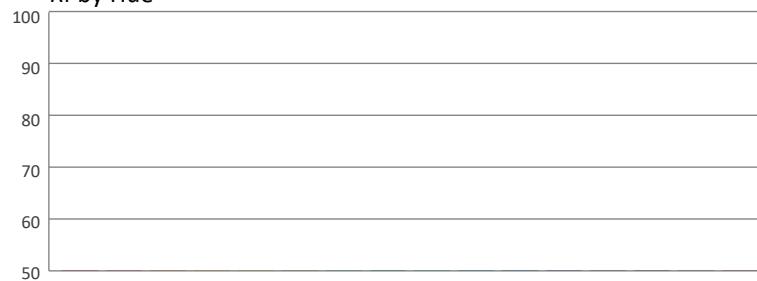
Color Evaluation Sample



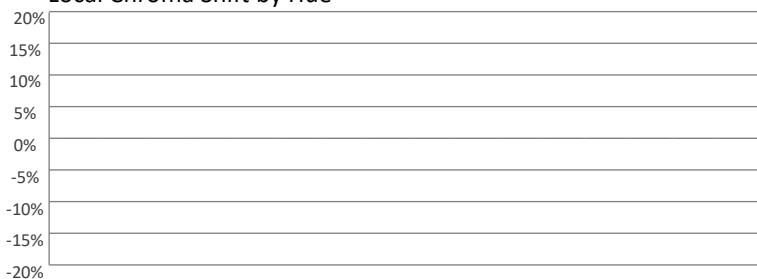
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Warm White Only

Report Summary

Measurements

Fixture Output: 194 lm
Fixture Peak: 180 cd
Fixture Efficacy: 12 lm/W
Intensity @ 5m: 7 lux
Color Temperature: 3051 K
CRI: 93.1 CRI R9 Value: 71.5

COS: 91.0

TLCI: 92

TM-30 Rf: 91.6

TM-30 Rg: 102.2

Beam Angle (50%): 56.5°

Field Angle (10%): 10

Cutoff Angle

Conditions

AC Supply: 119 V

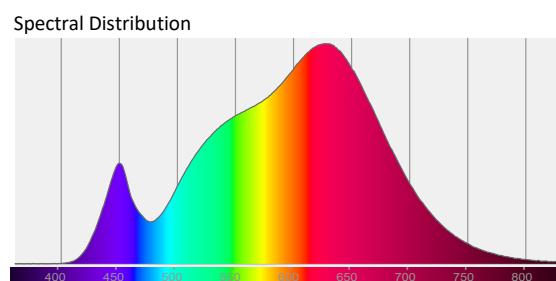
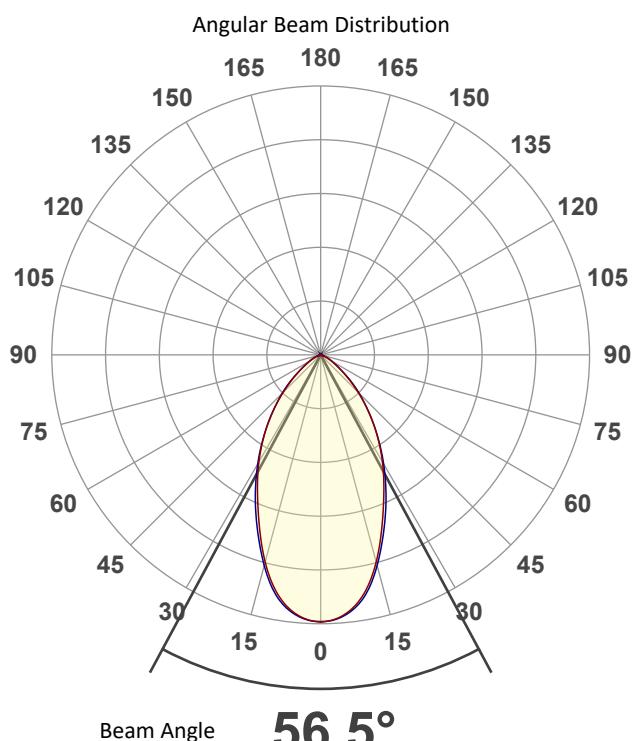
Power: 18.55 W

Current: 0.155 A



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Surprise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.434
Y: 0.403

Light Quality

CRI: 93.1

Color Temperature

3051 K

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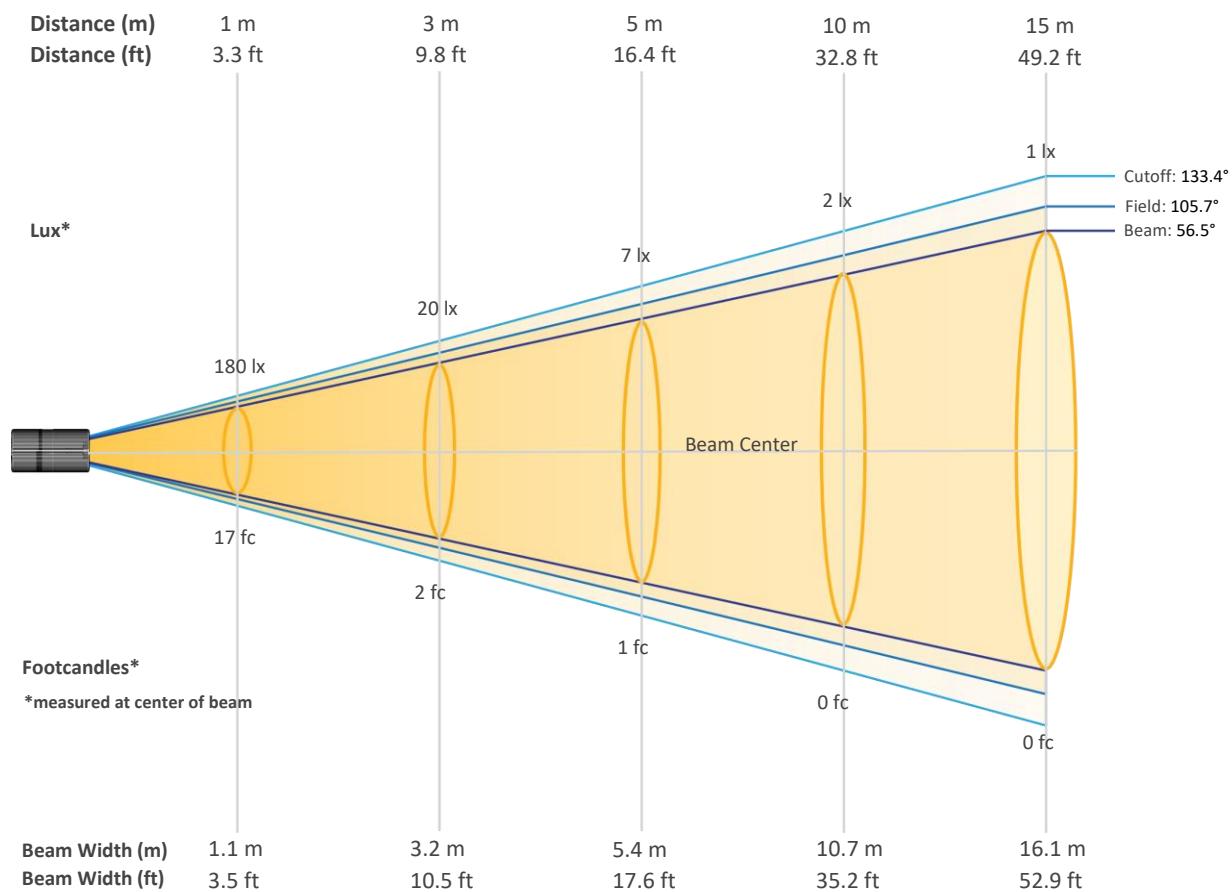
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Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Warm White Only

Beam Details

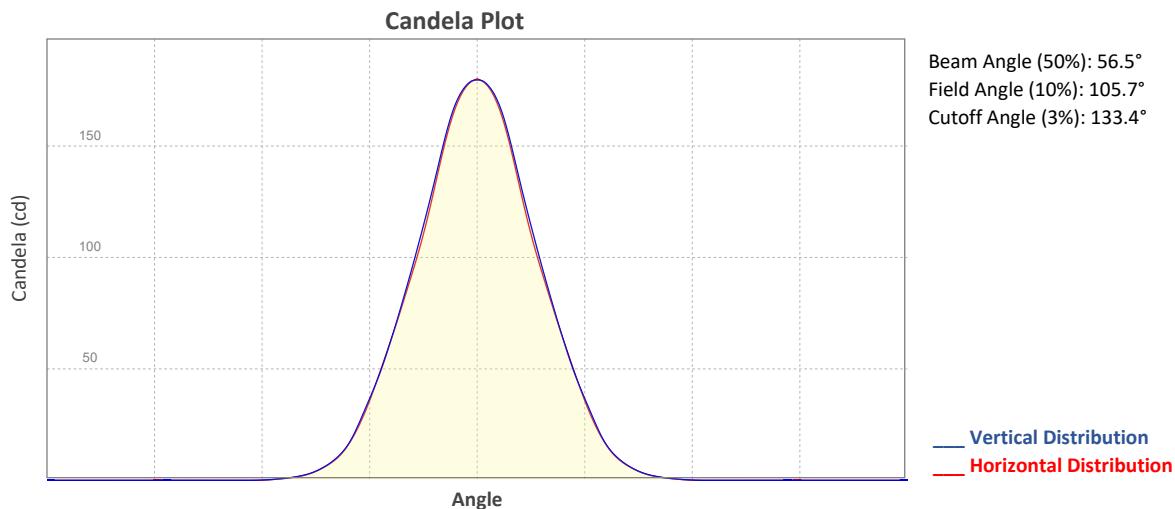


Beam Intensities from 1-20m (3.3-65.6ft)

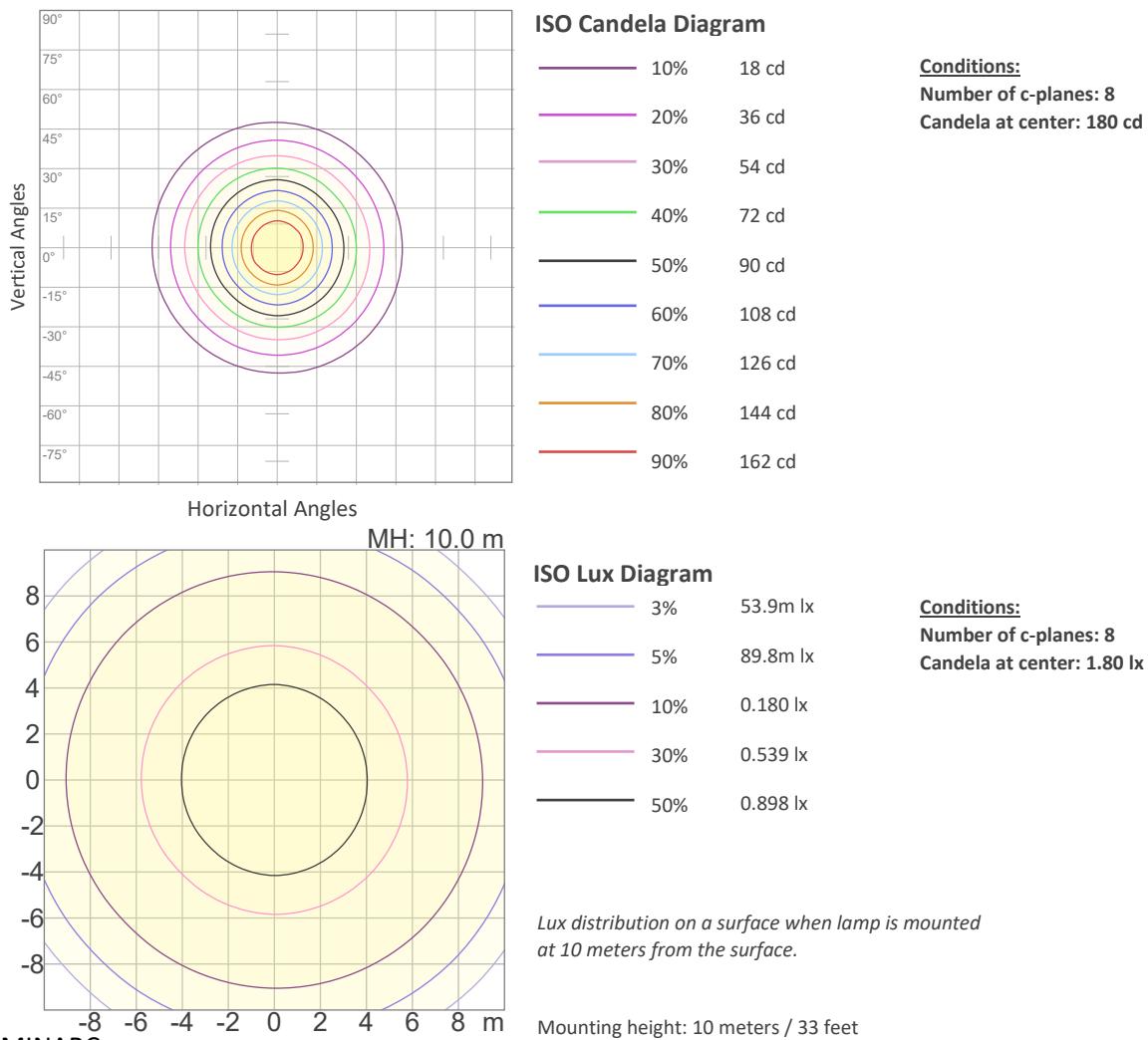
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	180	45	20	11	7	5	4	3	2	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	1	1	1	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	17	4	2	1	1	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Warm White Only



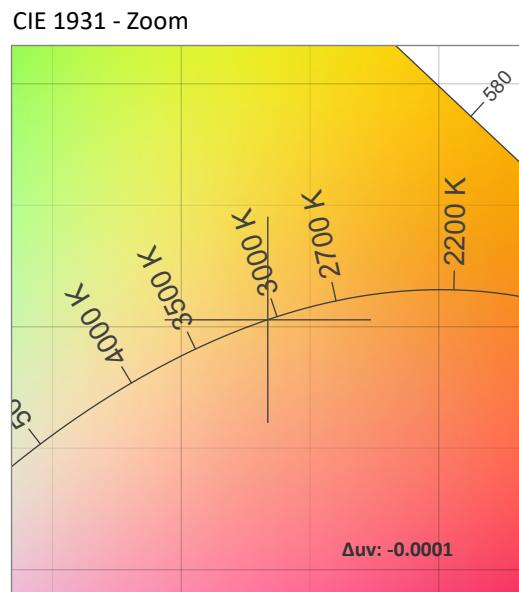
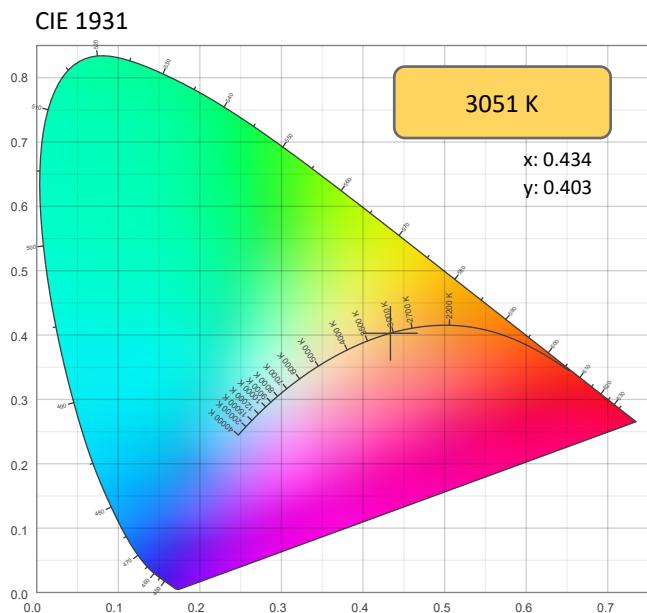
ISO Diagrams



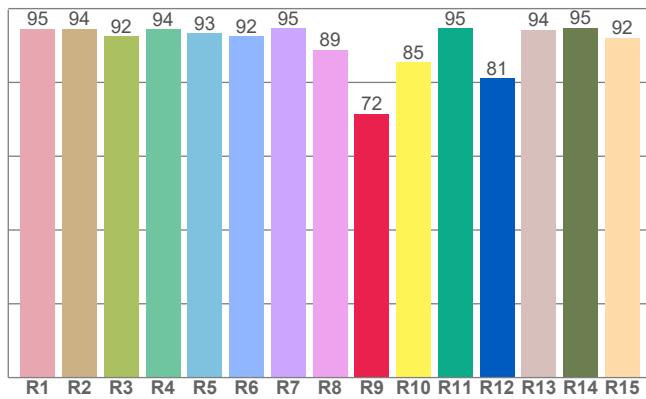
Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Warm White Only

Chromaticity



CRI: 93.1 (R1-R8)

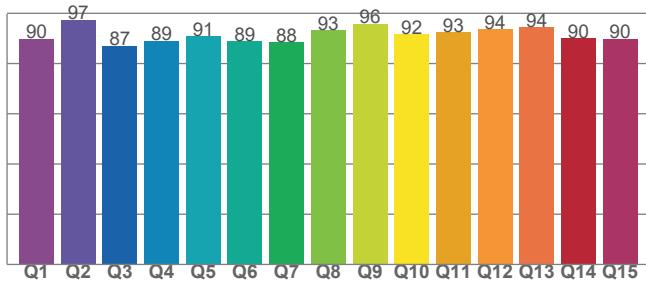


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3051 K	0.434	0.403

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0001	0.403	0.249

CQS: 91.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.1	71.5	91.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
92	91.6	102.2

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens - Warm White Only

TM-30 Details

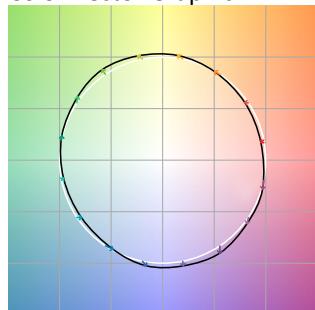
Rf 91.6

Fidelity Index
(Rg)

Rg 102.2

Gammut Index (Rg)

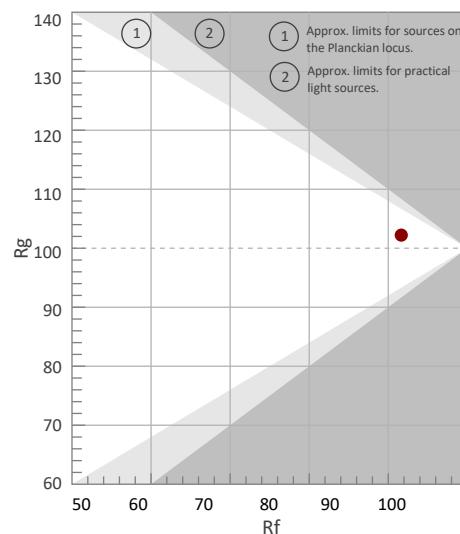
Color Vector Graphic



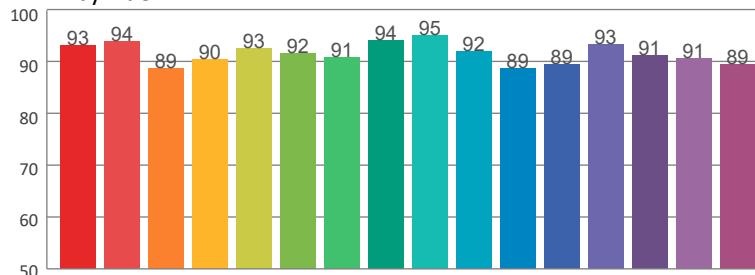
Color Distortion Graphic



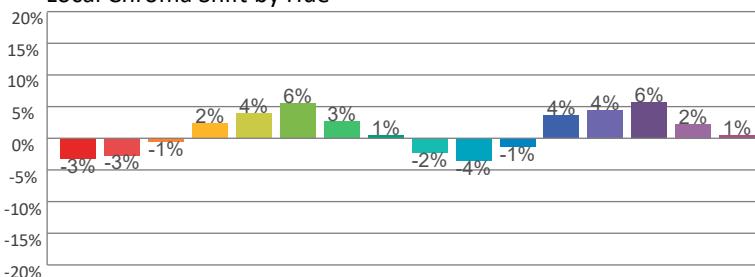
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-2%
2	94	-3%	2%
3	89	-1%	6%
4	90	2%	6%
5	93	4%	4%
6	92	6%	0%
7	91	3%	-5%
8	94	1%	-4%
9	95	-2%	-2%
10	92	-4%	3%
11	89	-1%	8%
12	89	4%	5%
13	93	4%	0%
14	91	6%	-4%
15	91	2%	-6%
16	89	1%	-8%



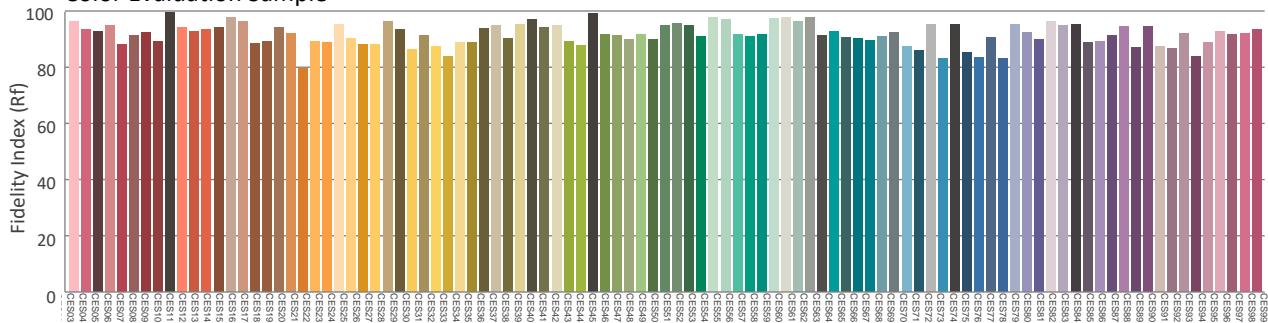
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 321 lm
Fixture Peak: 462 cd
Fixture Efficacy: 11 lm/W
Intensity @ 5m: 18 lux
Color Temperature: 5768 K
CRI: 48.3 CRI R9 Value: -145.0
CQS: 63.2

TLCI: 28
TM-30 Rf: 62.0
TM-30 Rg: 103.9
Beam Angle (50%): 44.3°
Field Angle (10%): 85.7°
Cutoff Angle (3%): 104.4°

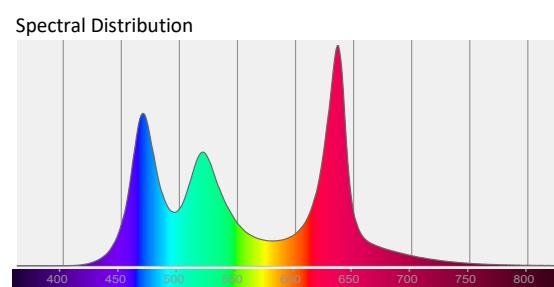
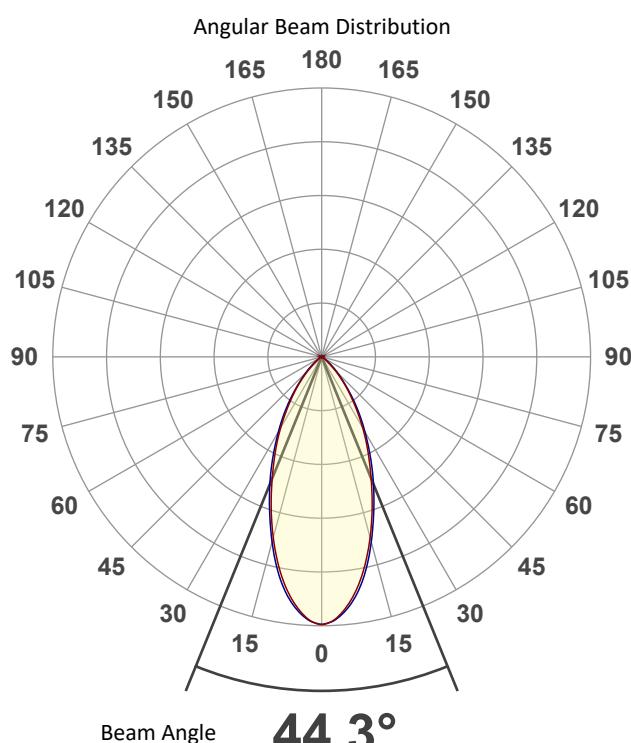
Conditions

AC Supply: 119 V, 60 Hz
Power: 30.85 W
Current: 0.260 A
Power Factor: 0.93



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.327
Y: 0.337

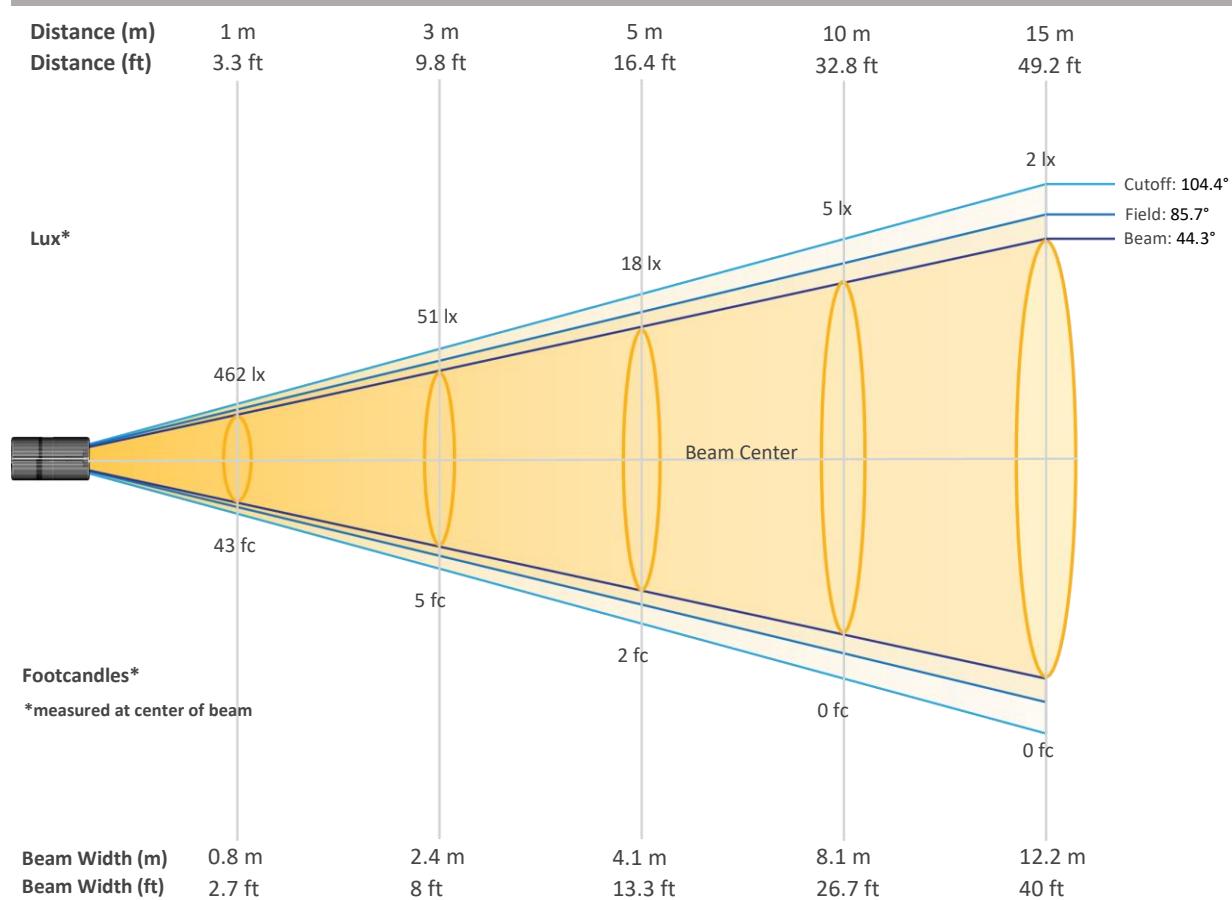
Light Quality
CRI: 48.3

Color Temperature
5768 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - RGBW - Full Power

Beam Details

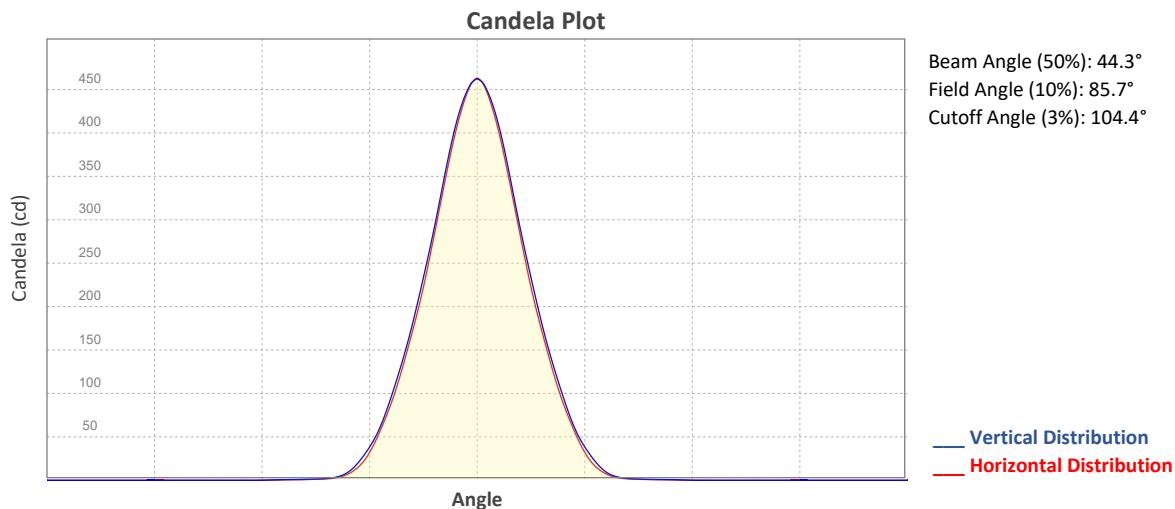


Beam Intensities from 1-20m (3.3-65.6ft)

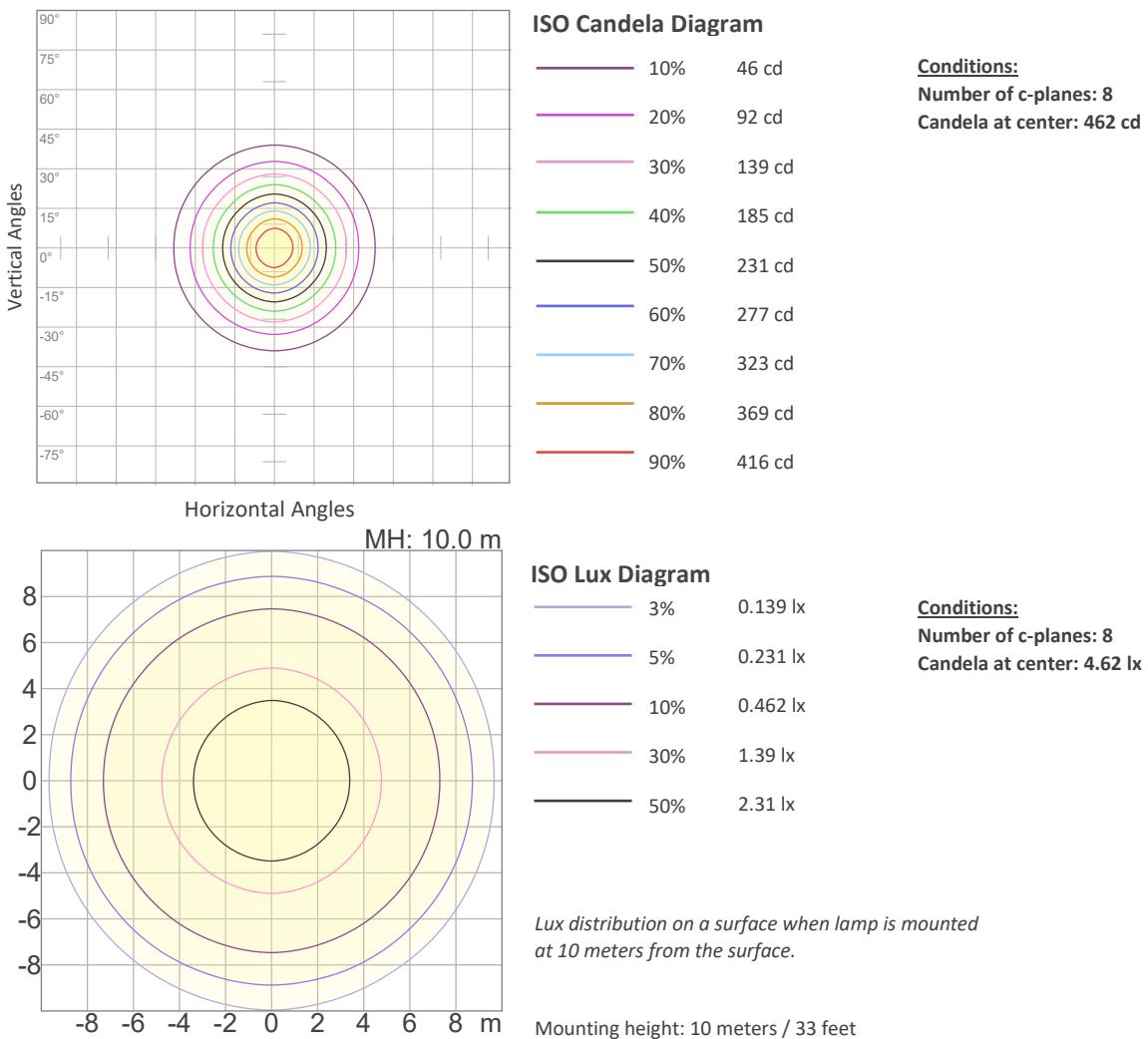
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	462	115	51	29	18	13	9	7	6	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	3	3	2	2	2	2	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	43	11	5	3	2	1	1	1	1	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - RGBW - Full Power



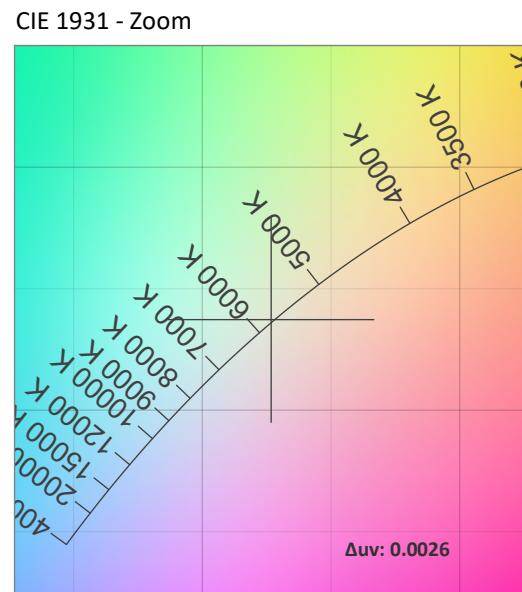
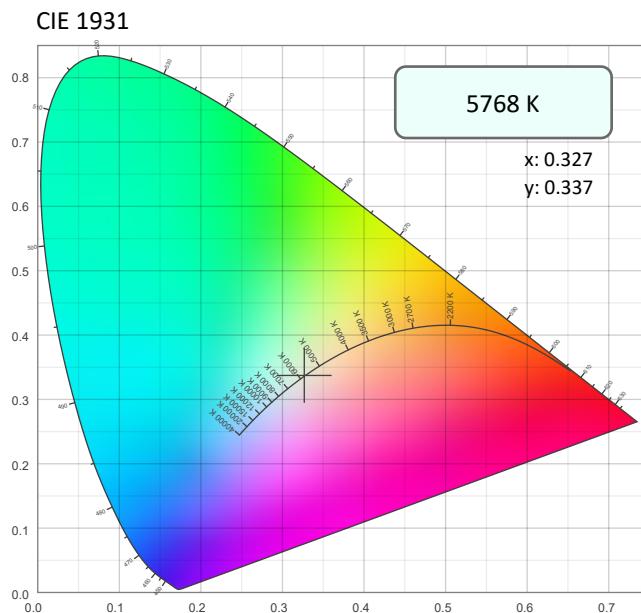
ISO Diagrams



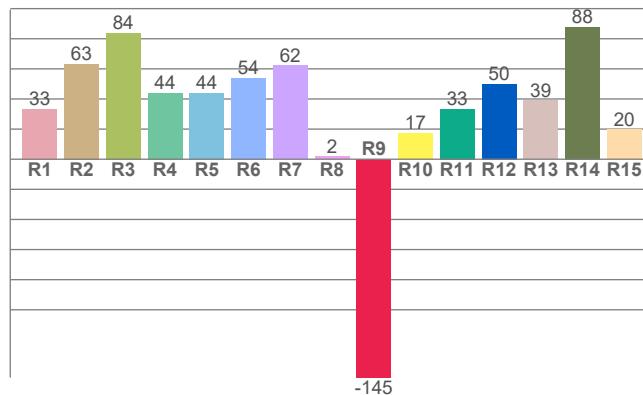
Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - RGBW - Full Power

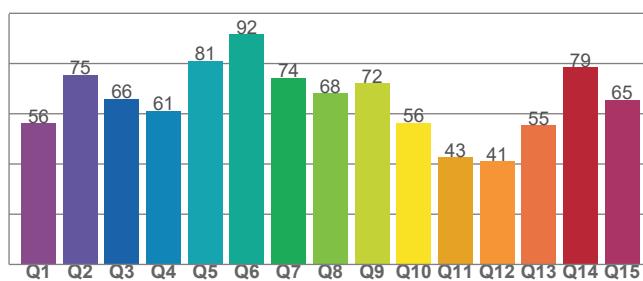
Chromaticity



CRI: 48.3 (R1-R8)



CQS: 63.2



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5768 K	0.327	0.337

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	γ	u
0.0026	0.337	0.204

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
48.3	-145.0	63.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
28	62.0	103.9

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Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - RGBW - Full Power

TM-30 Details

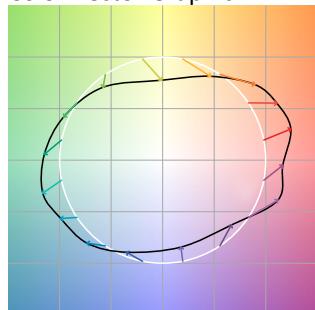
Rf 62.0

Fidelity Index
(Rg)

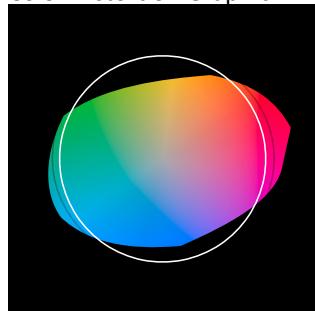
Rg 103.9

Gammut Index (Rg)

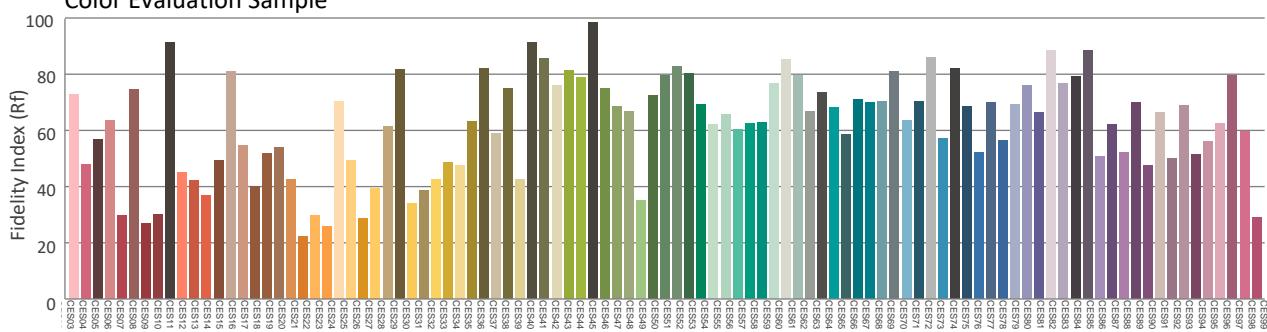
Color Vector Graphic



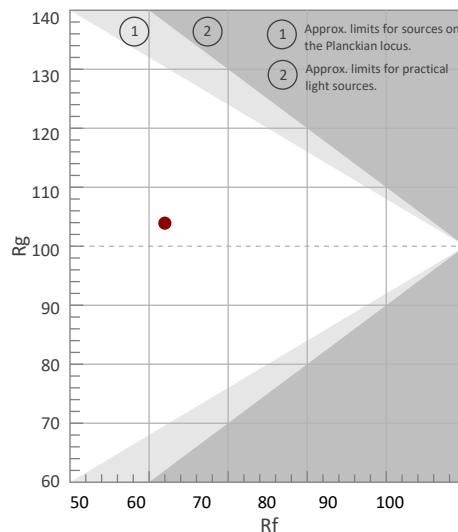
Color Distortion Graphic



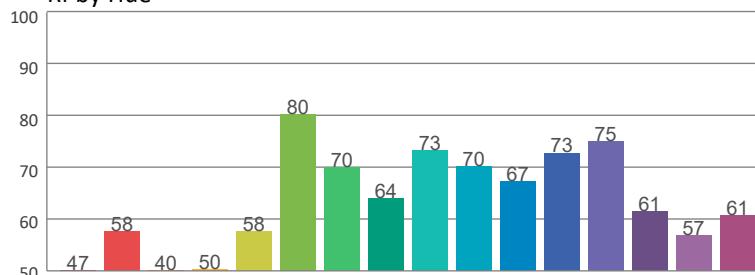
Color Evaluation Sample



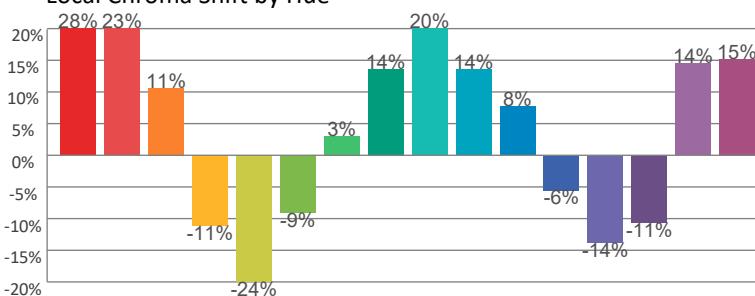
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	47	28%	5%
2	58	23%	-16%
3	40	11%	-34%
4	50	-11%	-30%
5	58	-24%	-14%
6	80	-9%	9%
7	70	3%	18%
8	64	14%	17%
9	73	20%	9%
10	70	14%	-8%
11	67	8%	-16%
12	73	-6%	-17%
13	75	-14%	1%
14	61	-11%	20%
15	57	14%	30%
16	61	15%	18%



Rf by Hue



Local Chroma Shift by Hue



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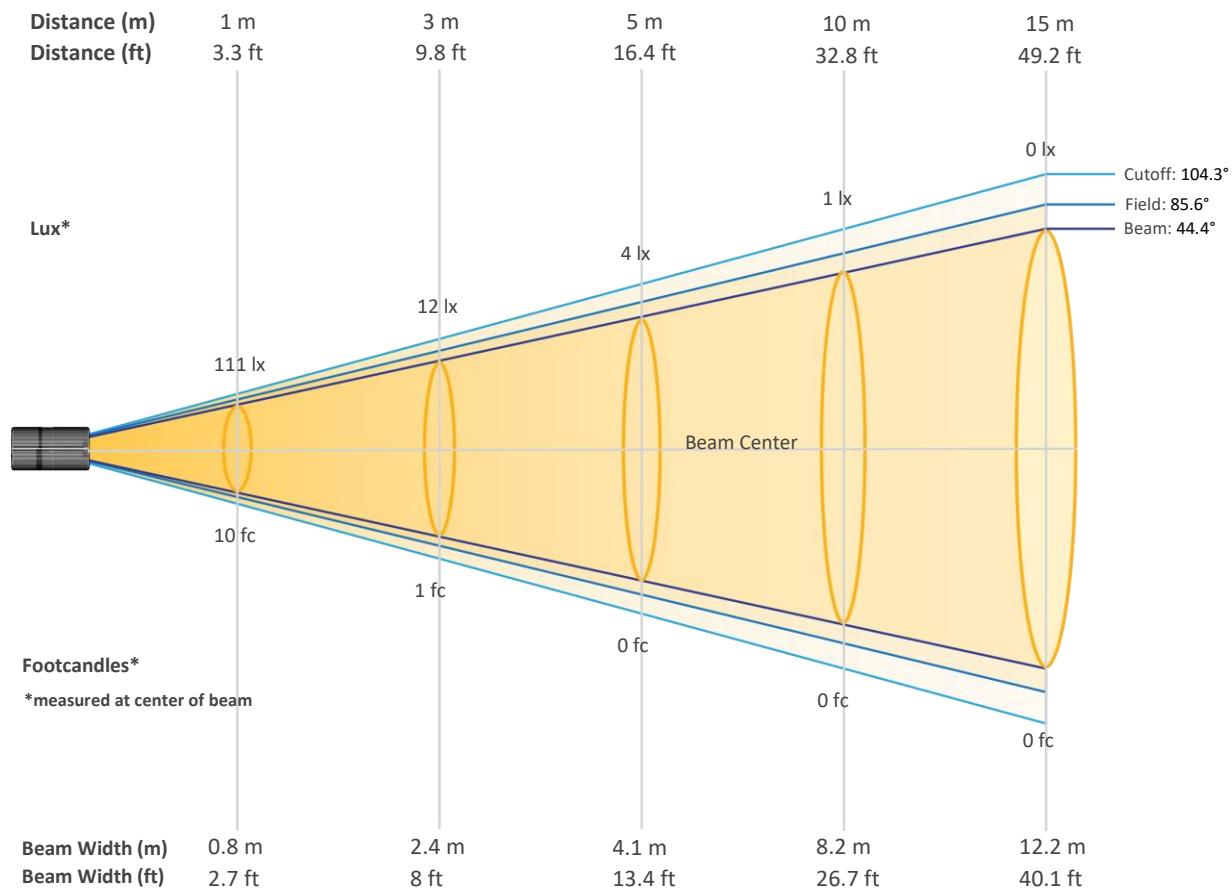
All product specifications, measurements and dimensions are subject to change without notice

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Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Red Only

Beam Details

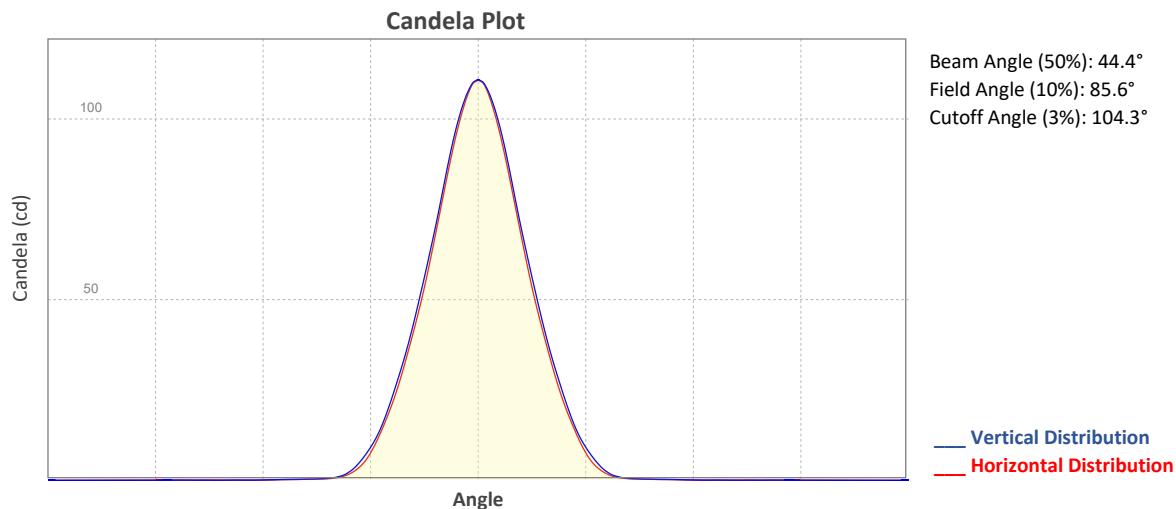


Beam Intensities from 1-20m (3.3-65.6ft)

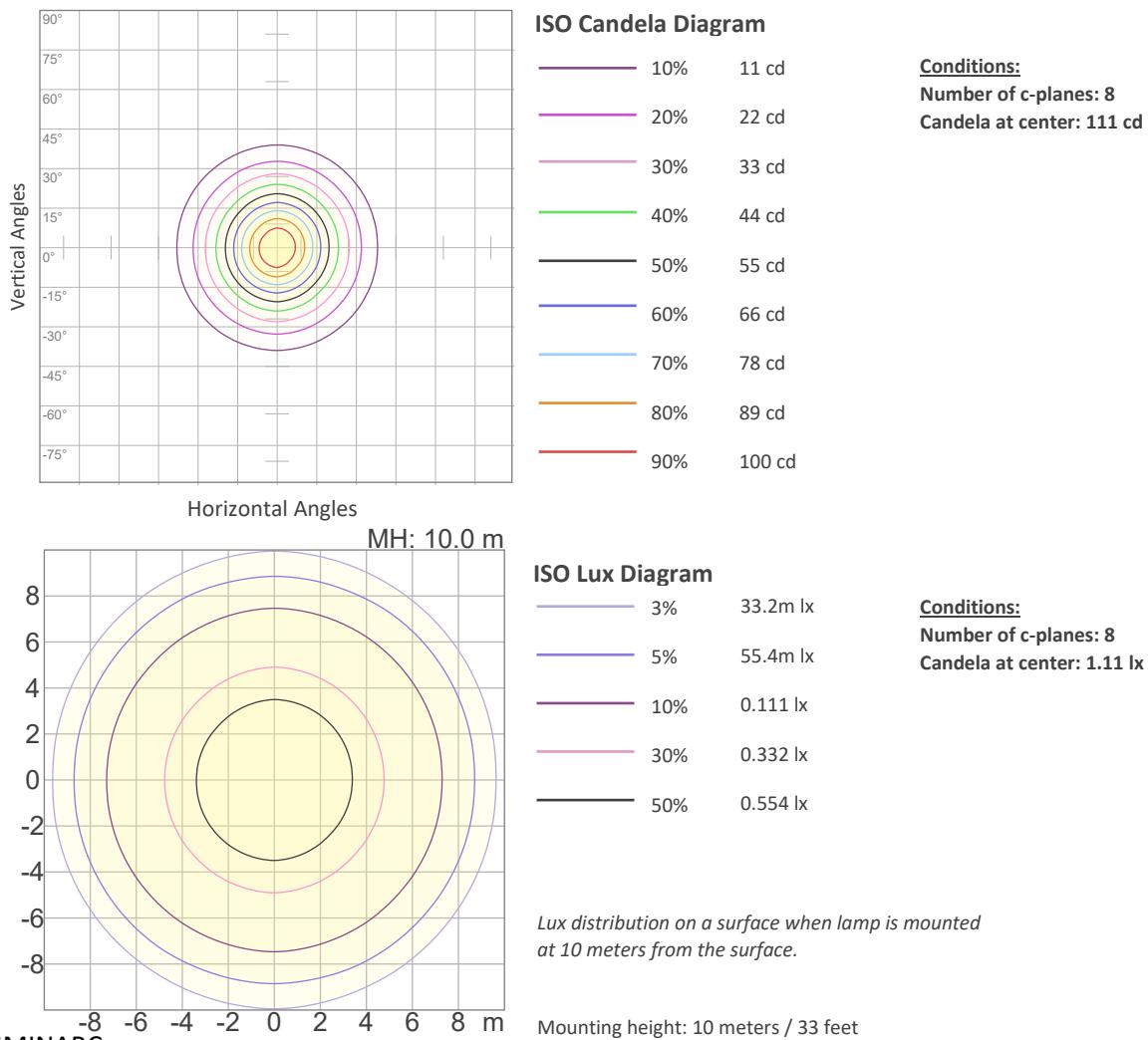
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	111	28	12	7	4	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	10	3	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Red Only



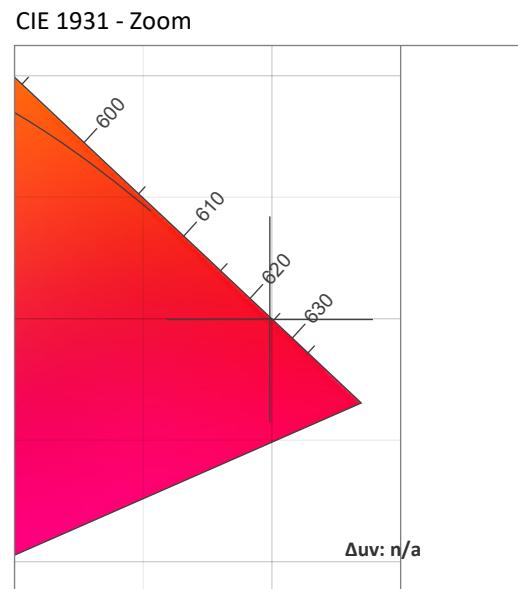
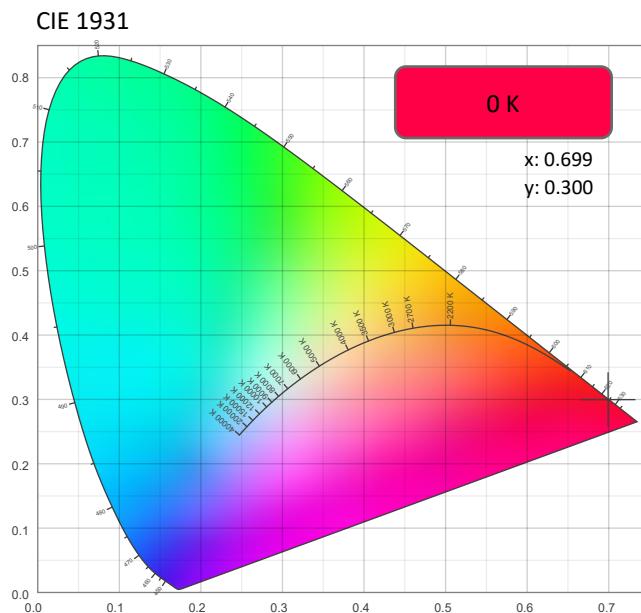
ISO Diagrams



Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Red Only

Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.699	0.300

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.300	0.538

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Red Only

TM-30 Details

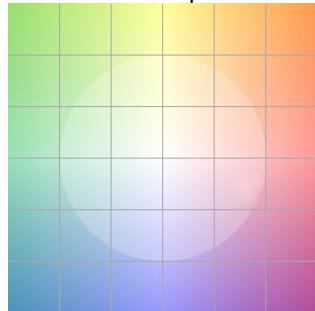
Rf 0.0

Fidelity Index
(Rg)

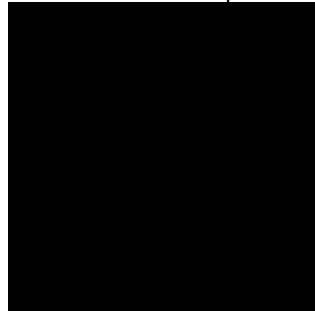
Rg 0.0

Gammut Index (Rg)

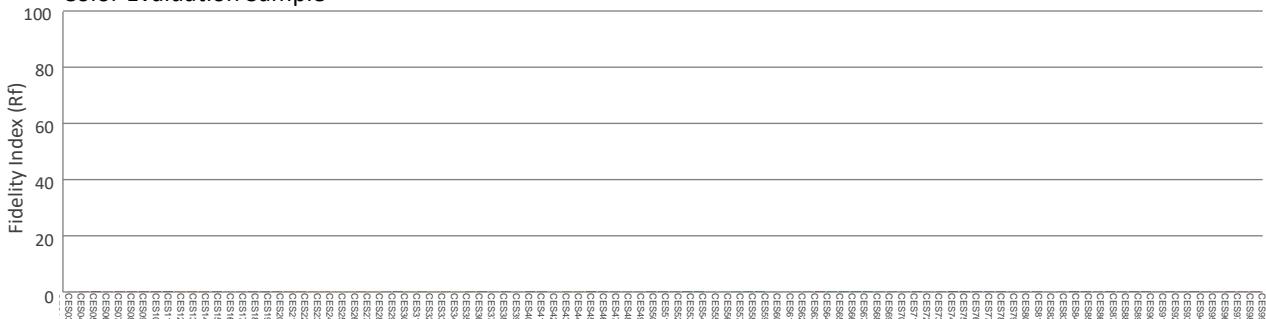
Color Vector Graphic



Color Distortion Graphic



Color Evaluation Sample



Hue Bin	R _f	Chroma	Hue
1	0		

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Green Only

Report Summary

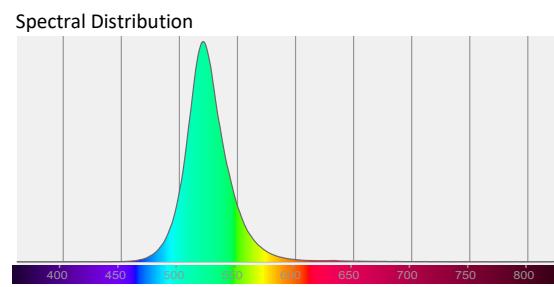
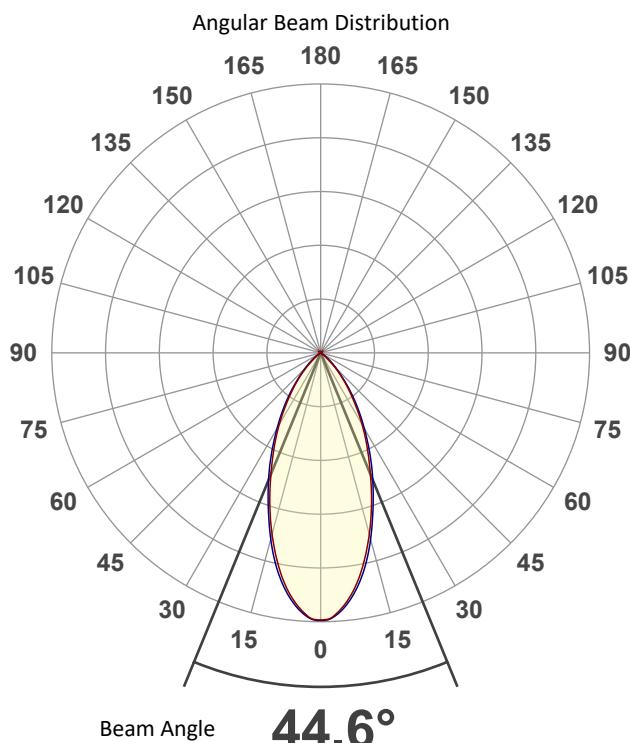
Measurements

Fixture Output: 151 lm
Fixture Peak: 215 cd
Fixture Efficacy: 9 lm/W
Intensity @ 5m: 9 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 44.6°
Field Angle (10%): 86°
Cutoff Angle (3%): 104.7°
Conditions
AC Supply: 119 V, 60 Hz
Power: 19.01 W
Current: 0.160 A
Power Factor: 0.85



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



Light Quality

CRI: 0.0

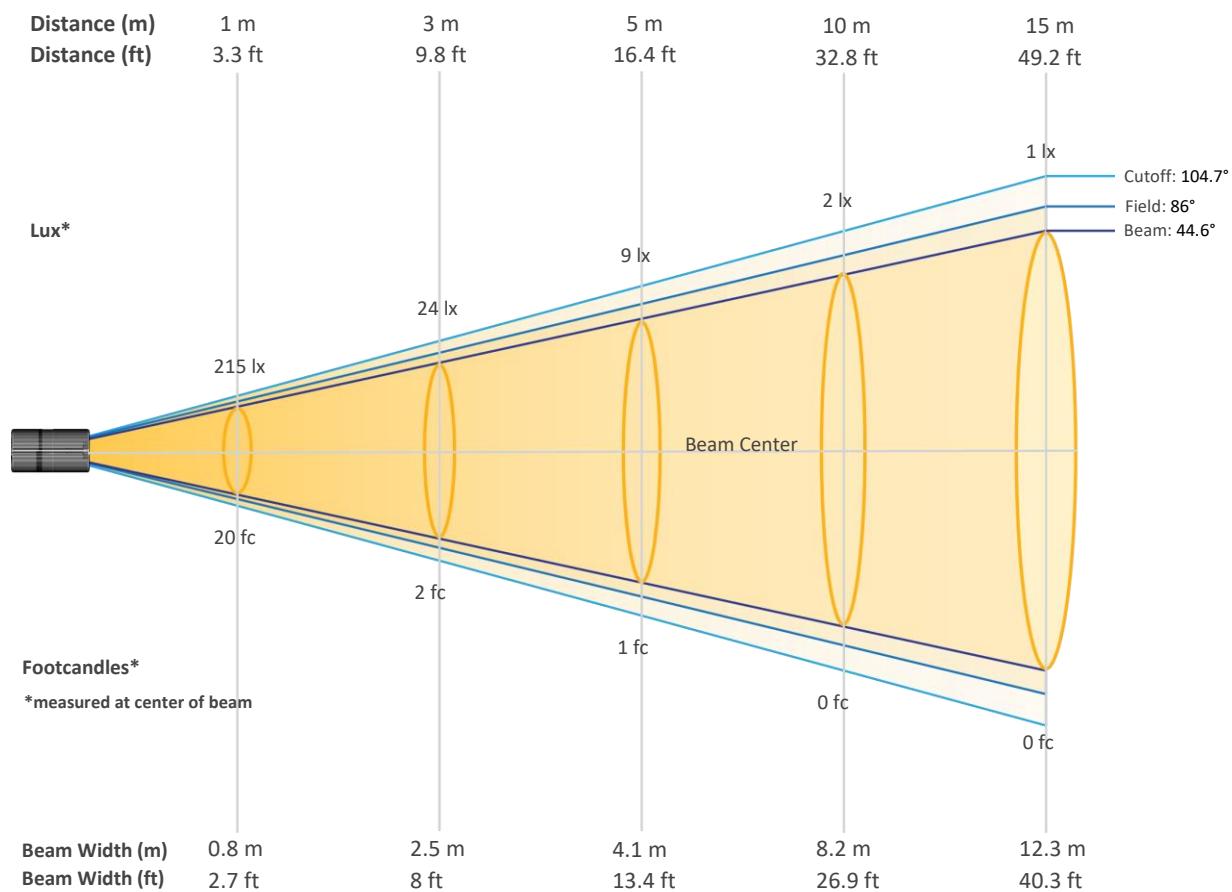
Color Temperature

0 K

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Green Only

Beam Details

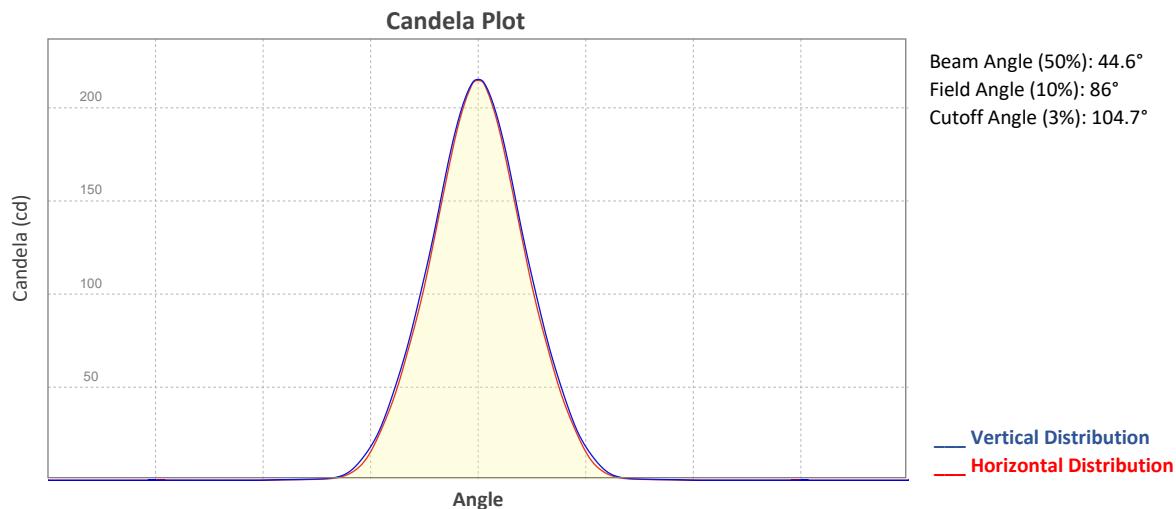


Beam Intensities from 1-20m (3.3-65.6ft)

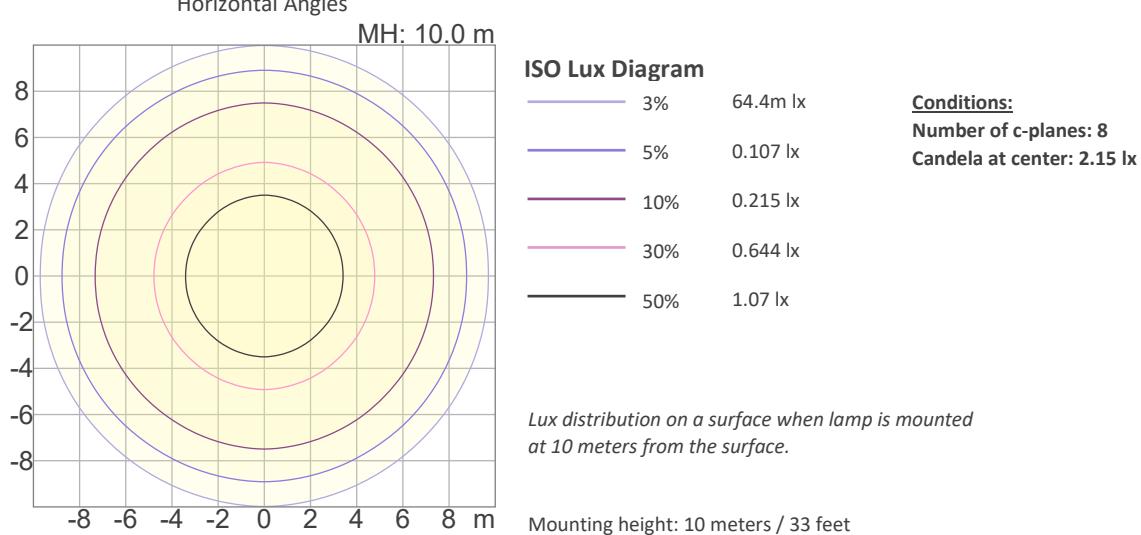
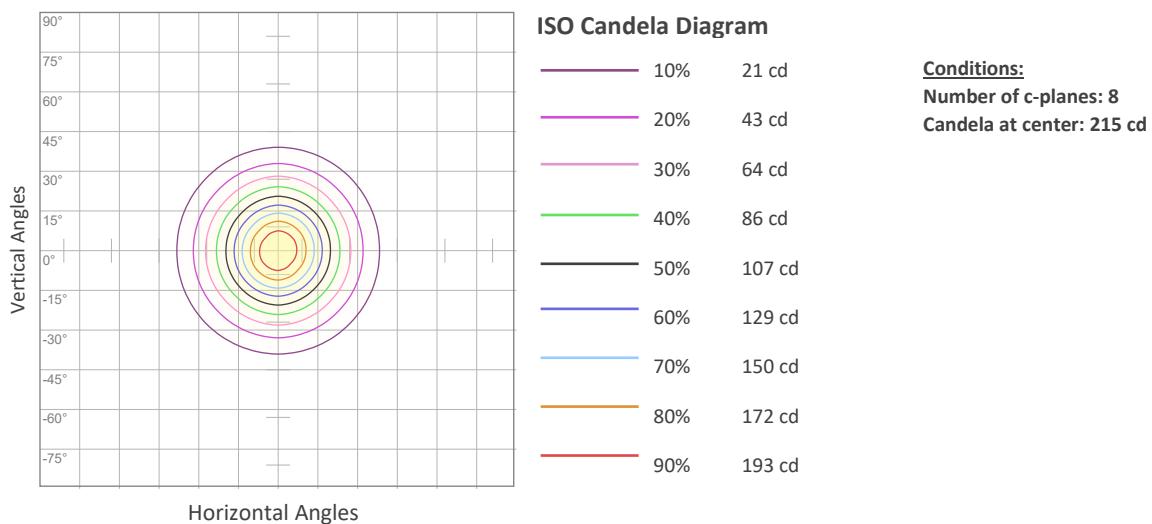
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	215	54	24	13	9	6	4	3	3	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	1	1	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	20	5	2	1	1	1	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Green Only



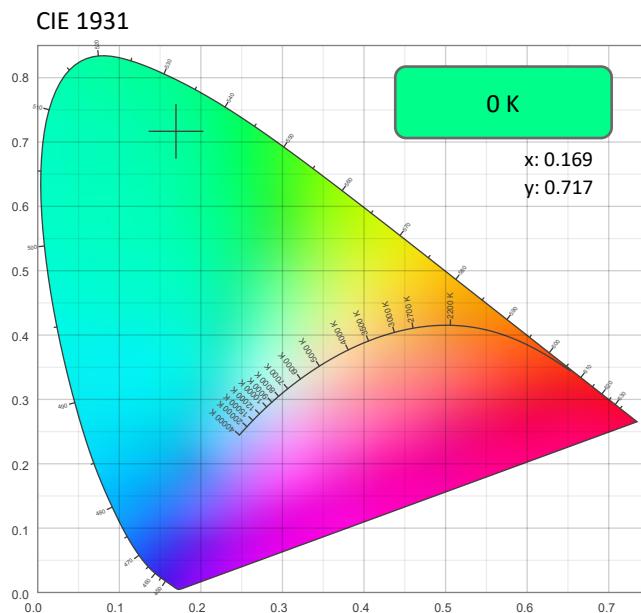
ISO Diagrams



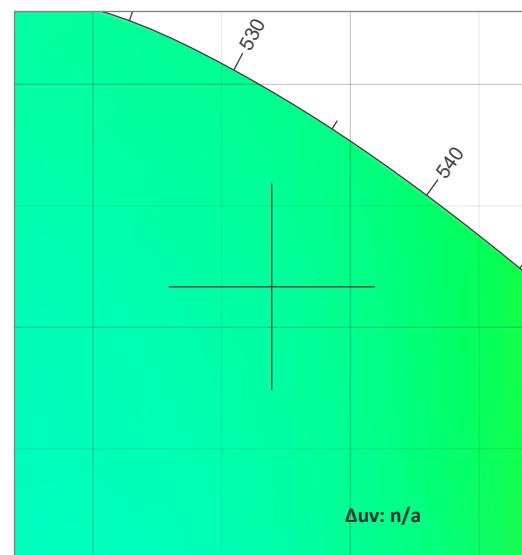
Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Green Only

Chromaticity



CIE 1931 - Zoom



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.169	0.717

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.717	0.060

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Green Only

TM-30 Details

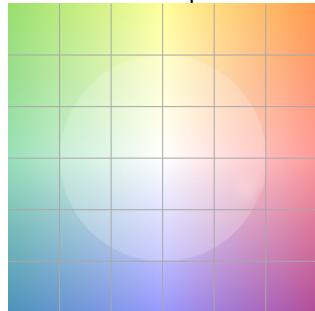
Rf 0.0

Fidelity Index
(Rg)

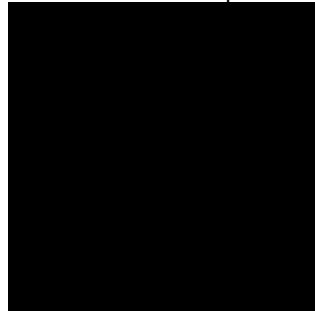
Rg 0.0

Gammut Index (Rg)

Color Vector Graphic



Color Distortion Graphic



Color Evaluation Sample

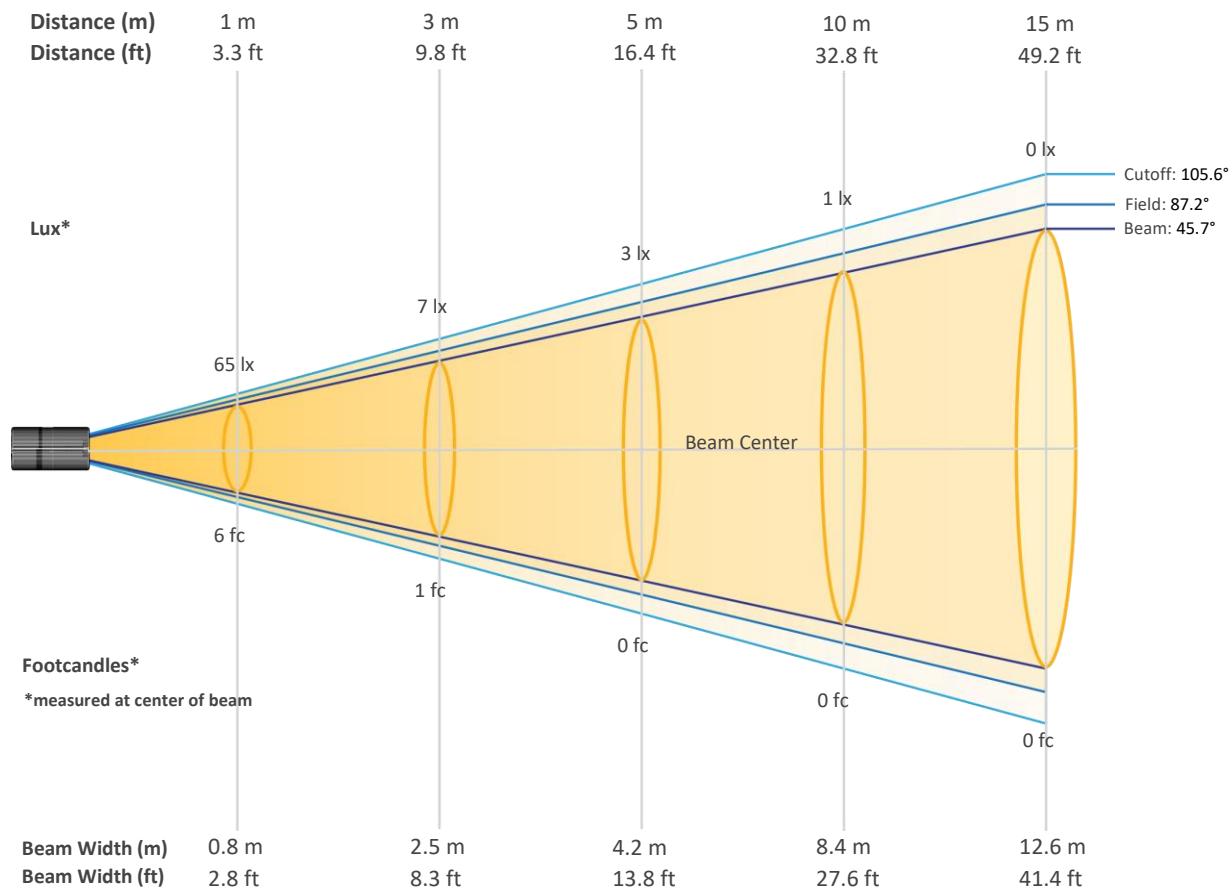


Hue Bin	R _f	Chroma	Hue
1			

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Blue Only

Beam Details

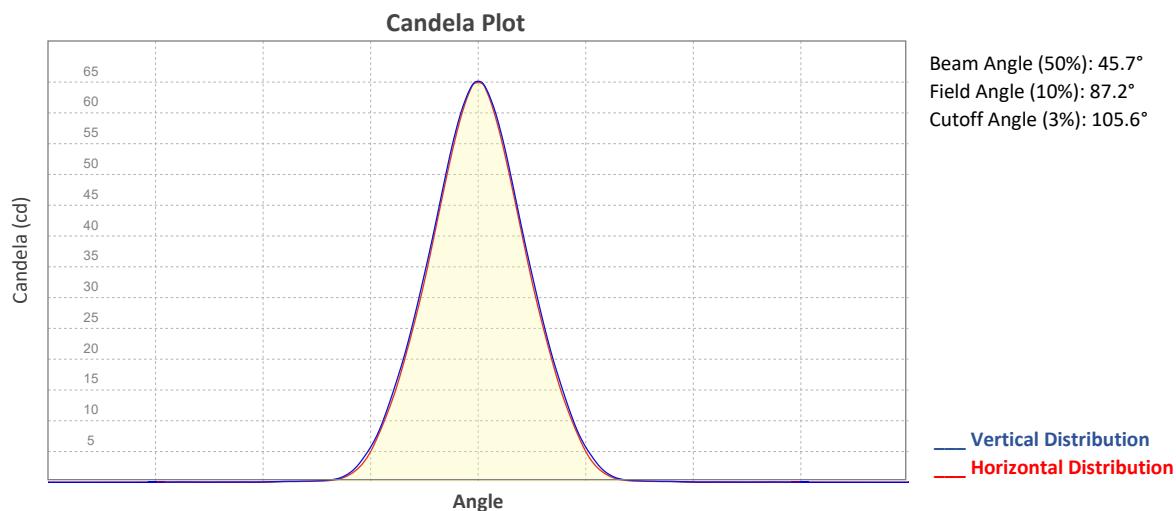


Beam Intensities from 1-20m (3.3-65.6ft)

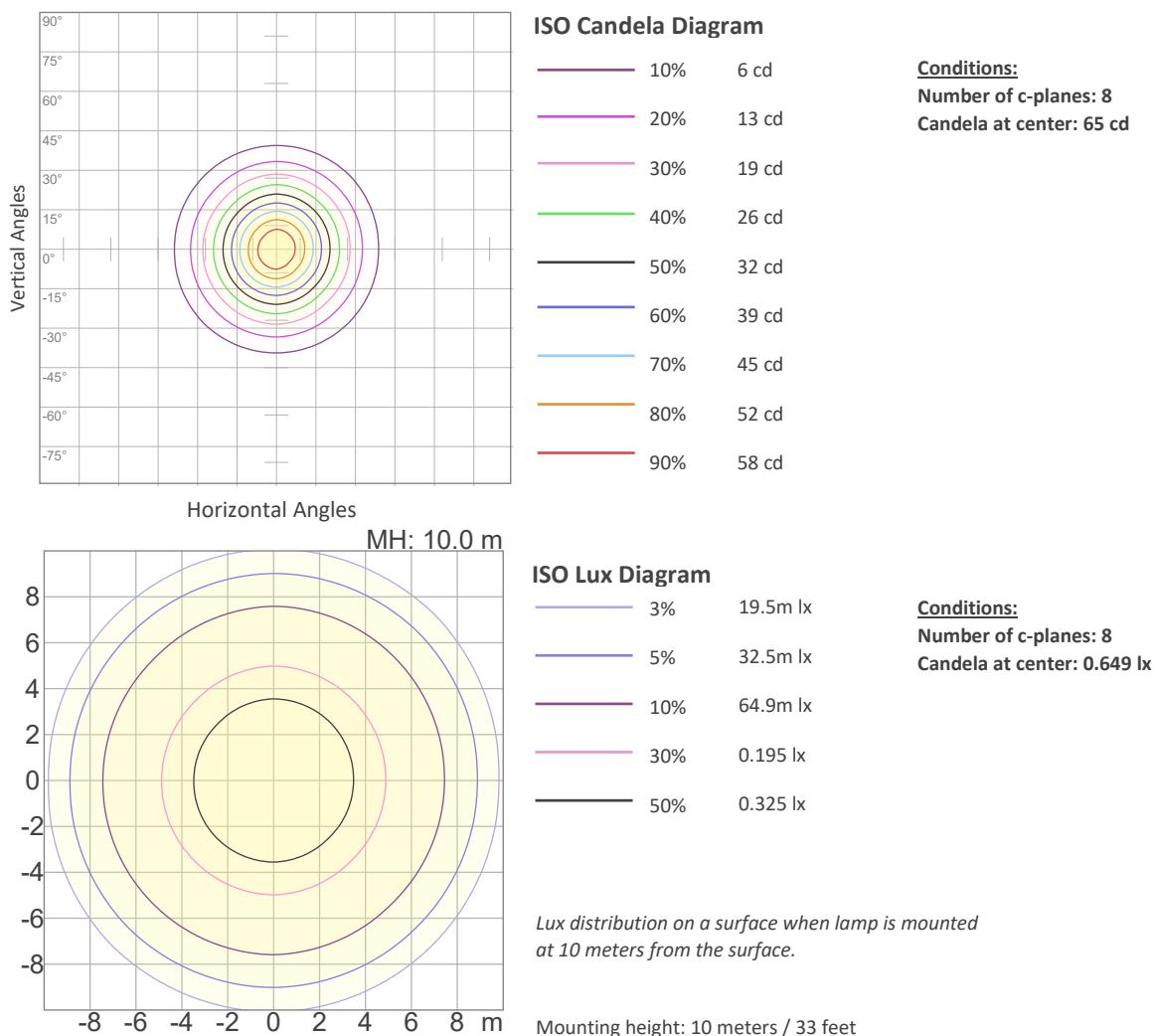
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	65	16	7	4	3	2	1	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	6	2	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Blue Only



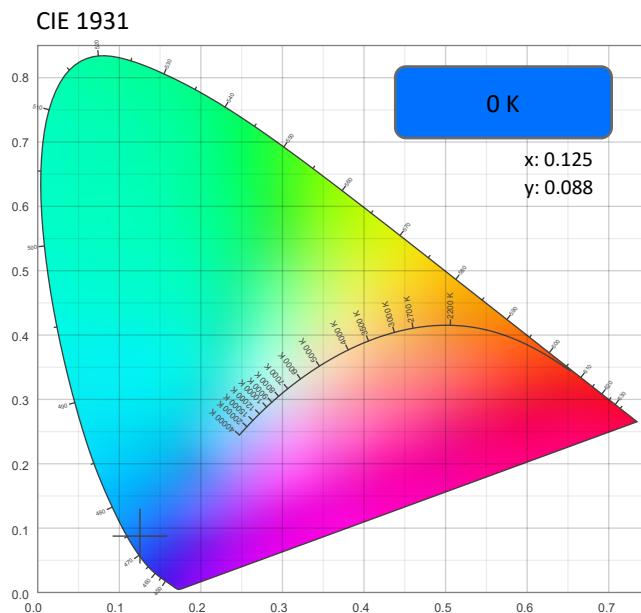
ISO Diagrams



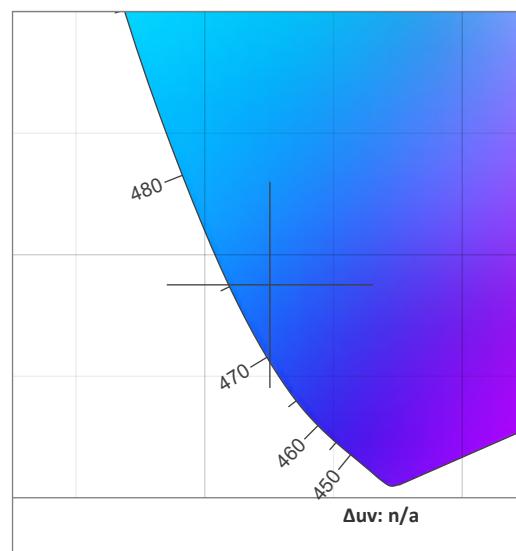
Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Blue Only

Chromaticity



CIE 1931 - Zoom



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.125	0.088

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.088	0.132

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Blue Only

TM-30 Details

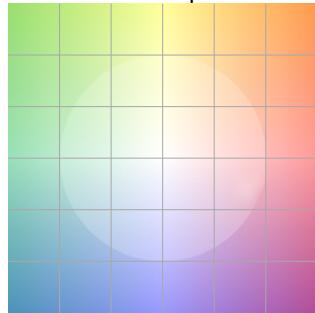
Rf 0.0

Fidelity Index
(Rg)

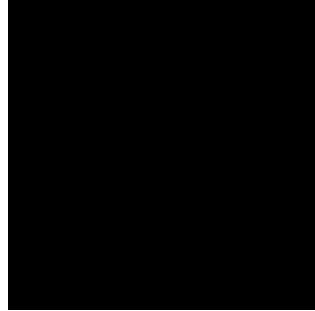
Rg 0.0

Gammut Index (Rg)

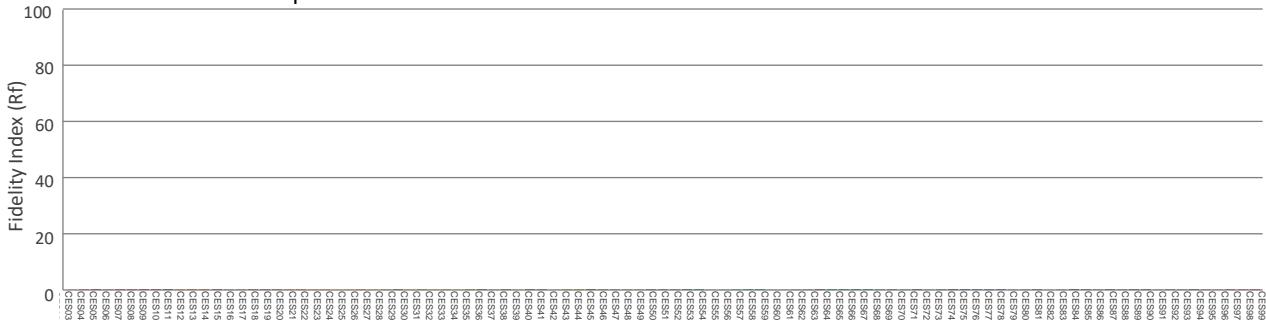
Color Vector Graphic



Color Distortion Graphic



Color Evaluation Sample



Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Warm White Only

Report Summary

Measurements

Fixture Output: 111 lm
Fixture Peak: 163 cd
Fixture Efficacy: 7 lm/W
Intensity @ 5m: 7 lux
Color Temperature: 3033 K
CRI: 93.0 CRI R9 Value: 71.0

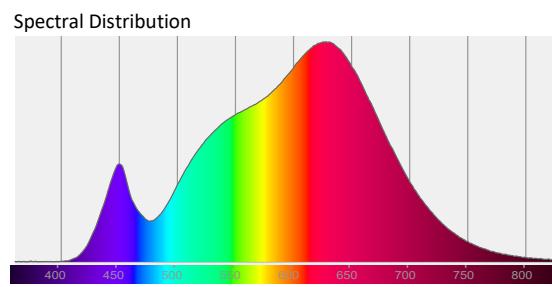
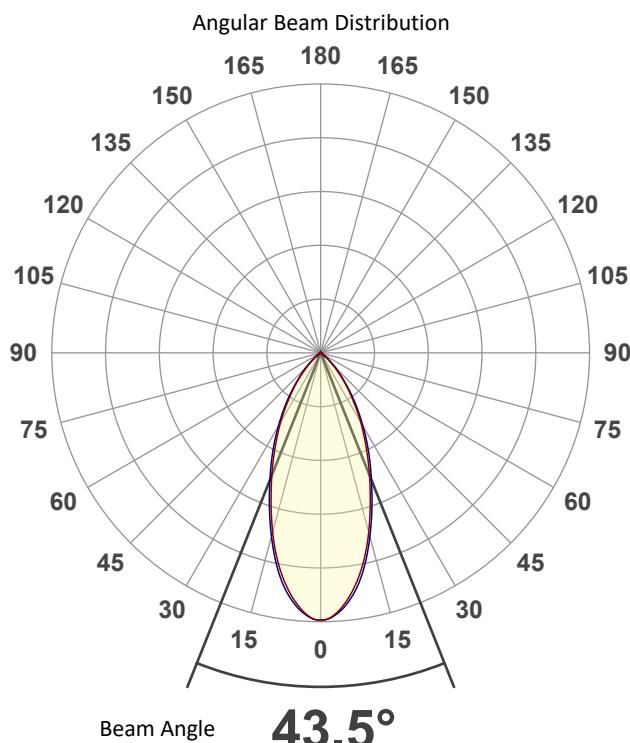


Conditions

AC Supply: 119 V, 60 Hz
Power: 18.57 W
Current: 0.156 A
Power Factor: 0.84

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/23/2022 to LM-63-2002 Standards.

Overall Measurement



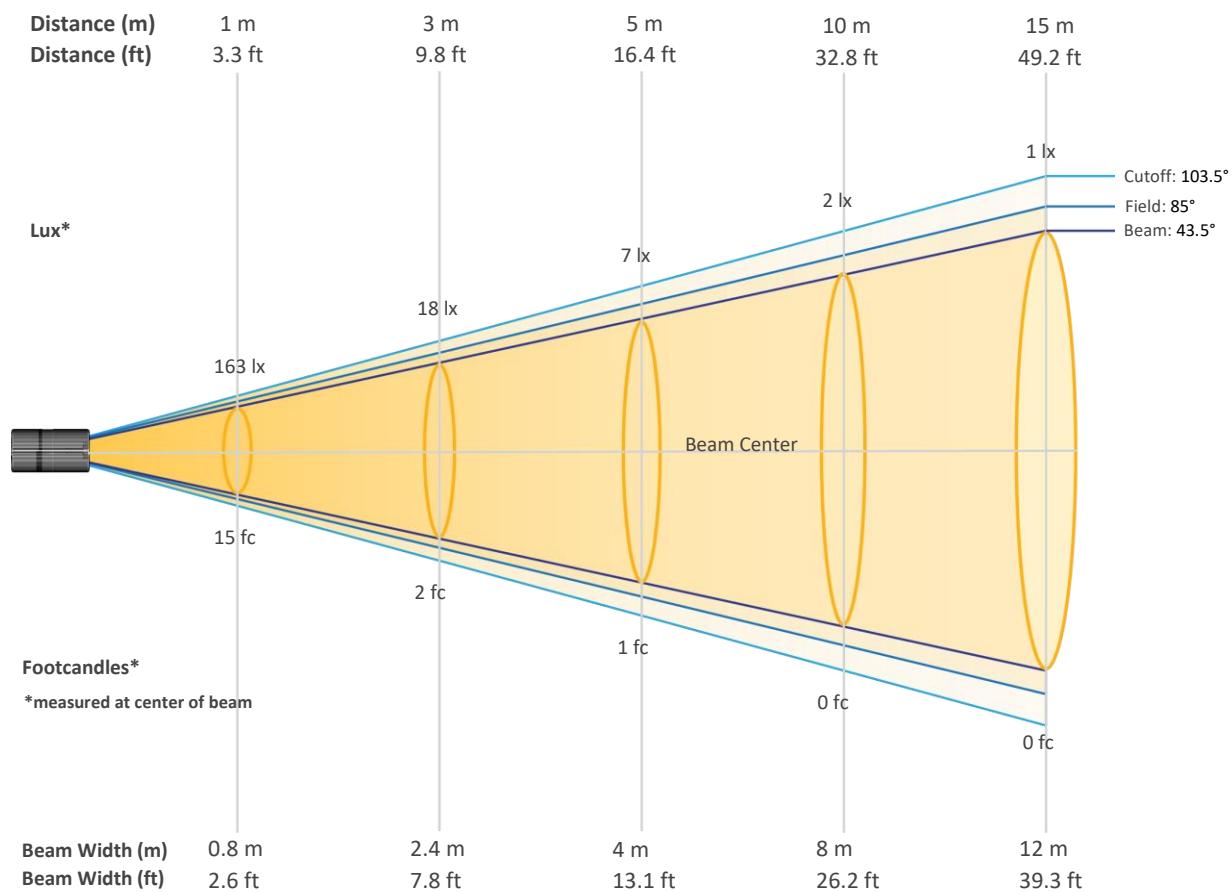
Tested Color (CIE 1931):
X: 0.435
Y: 0.404



Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Warm White Only

Beam Details

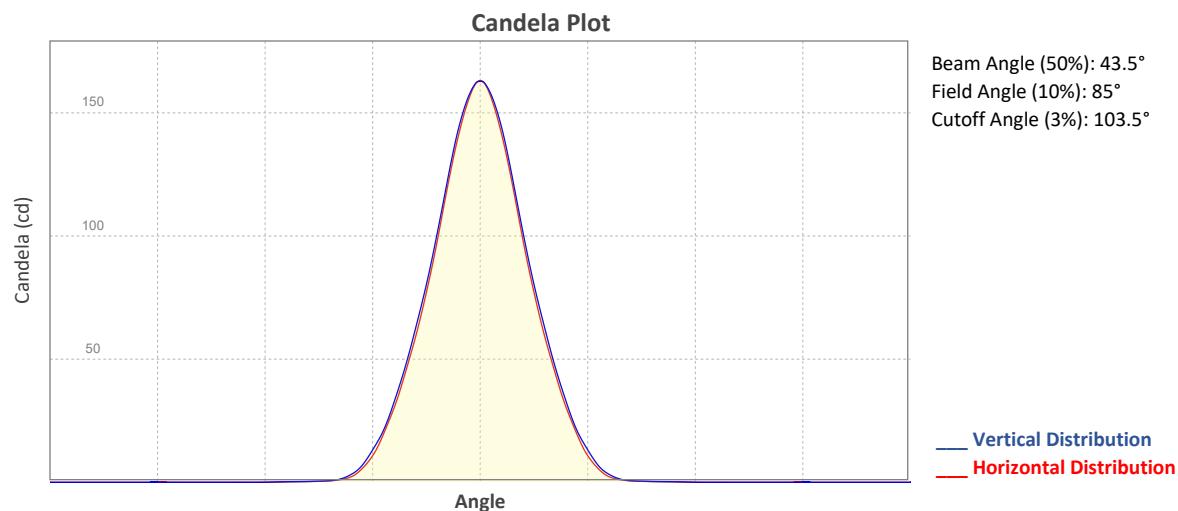


Beam Intensities from 1-20m (3.3-65.6ft)

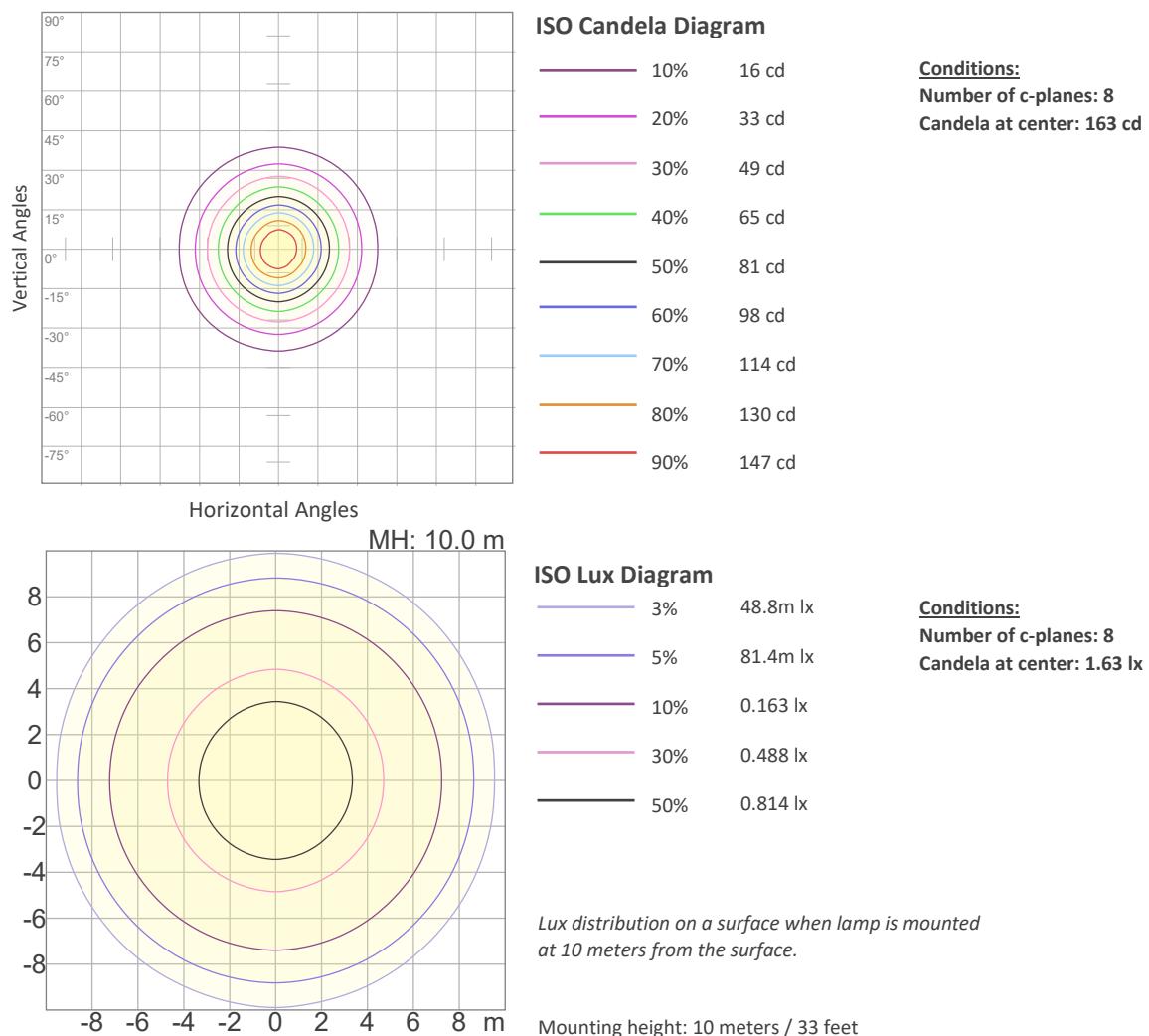
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	163	41	18	10	7	5	3	3	2	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	1	1	1	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	15	4	2	1	1	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Warm White Only



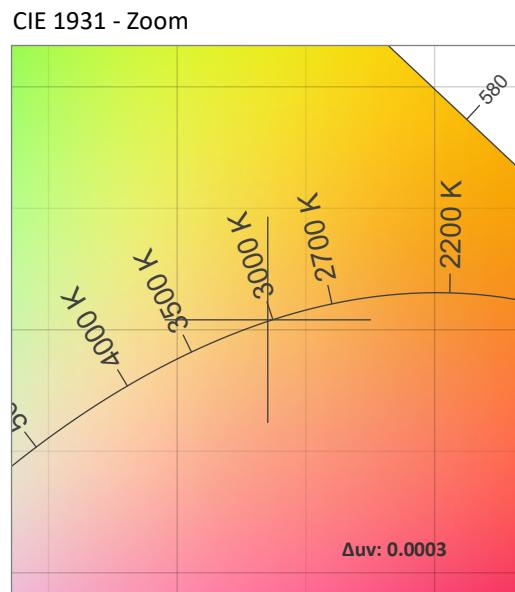
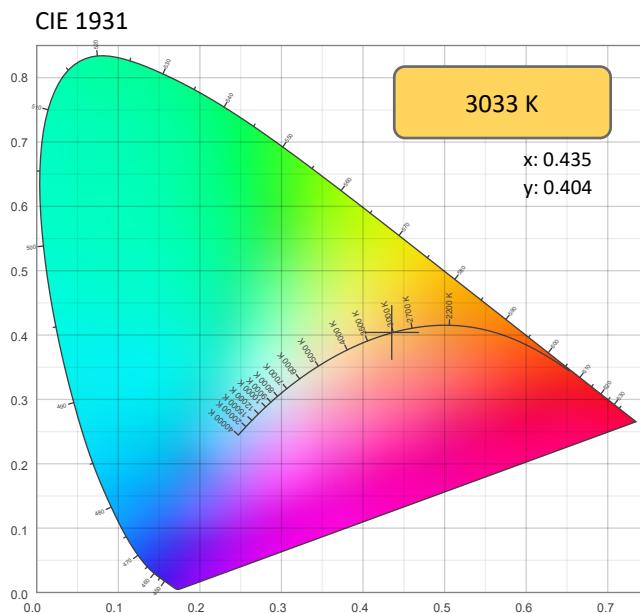
ISO Diagrams



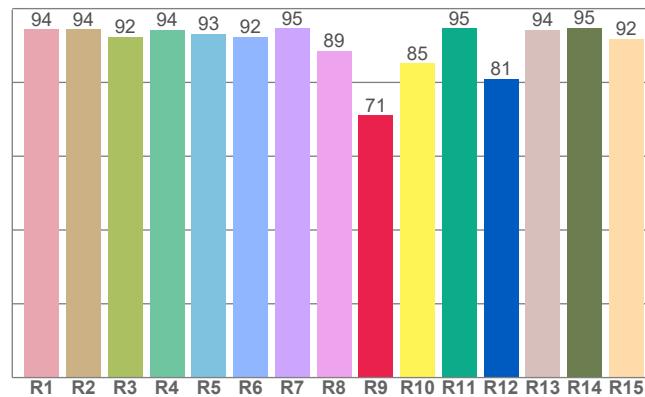
Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Warm White Only

Chromaticity



CRI: 93.0 (R1-R8)

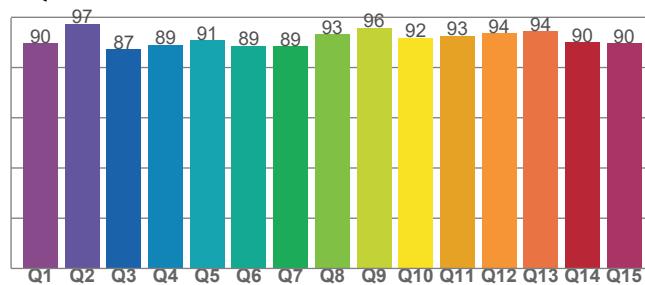


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3033 K	0.435	0.404

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0003	0.404	0.249

CQS: 90.9



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.0	71.0	90.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
92	91.6	102.1

Photometric & Chromaticity Report

Logic AR111 Downlight S: Wide Filter Lens with Honeycomb - Warm White Only

TM-30 Details

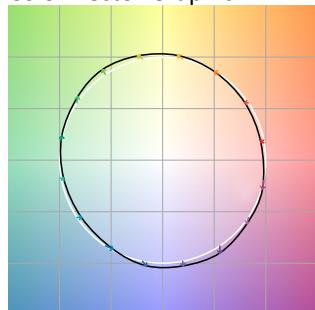
Rf 91.6

Fidelity Index
(Rg)

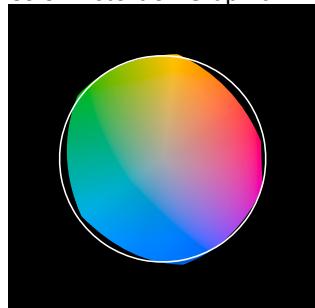
Rg 102.1

Gammut Index (Rg)

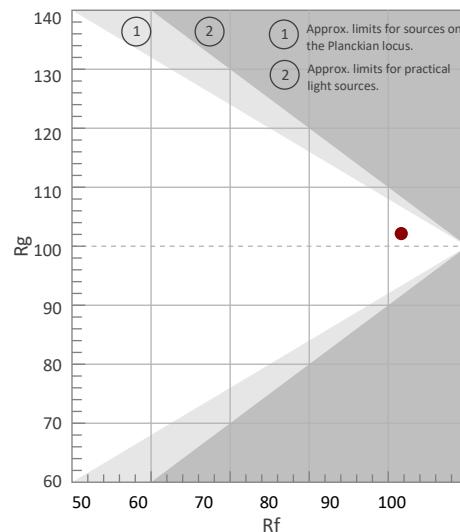
Color Vector Graphic



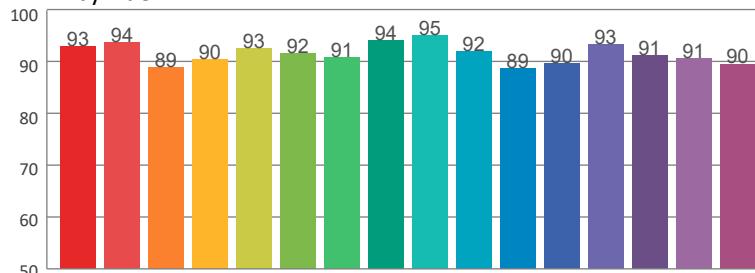
Color Distortion Graphic



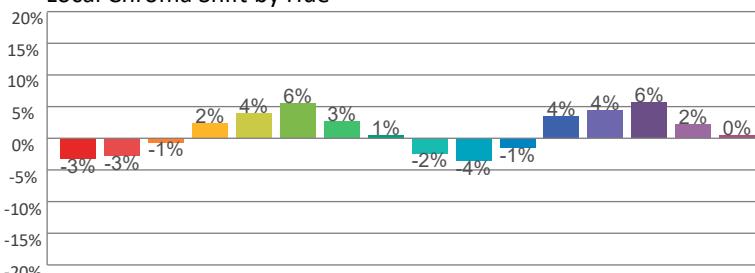
Hue Bin	<i>R_f</i>	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-2%
2	94	-3%	2%
3	89	-1%	6%
4	90	2%	6%
5	93	4%	4%
6	92	6%	0%
7	91	3%	-5%
8	94	1%	-4%
9	95	-2%	-2%
10	92	-4%	3%
11	89	-1%	8%
12	90	4%	5%
13	93	4%	0%
14	91	6%	-4%
15	91	2%	-6%
16	90	0%	-8%



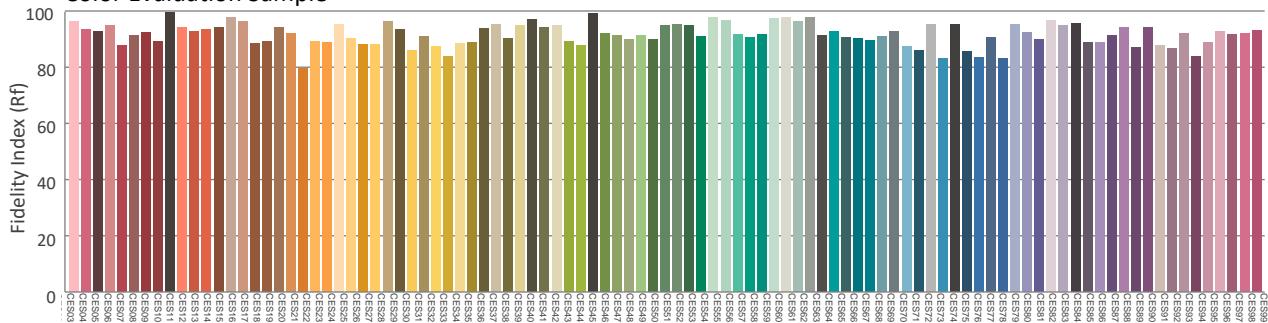
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



ILUMINARC – www.iluminarc.com

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All product specifications, measurements and dimensions are subject to change without notice

ILUMINARC

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Visit the applicable website above to verify our contact information and instructions to request support. Outside the U.S., U.K., Ireland, Benelux, France, Germany, or Mexico, contact the dealer of the record.