

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1049891

Luminaire Tested: **GALN-SA9C-850-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049891
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-850-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 9xLight Square PACKAGE
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40990.7 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G5

Input Watts (W): 417.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

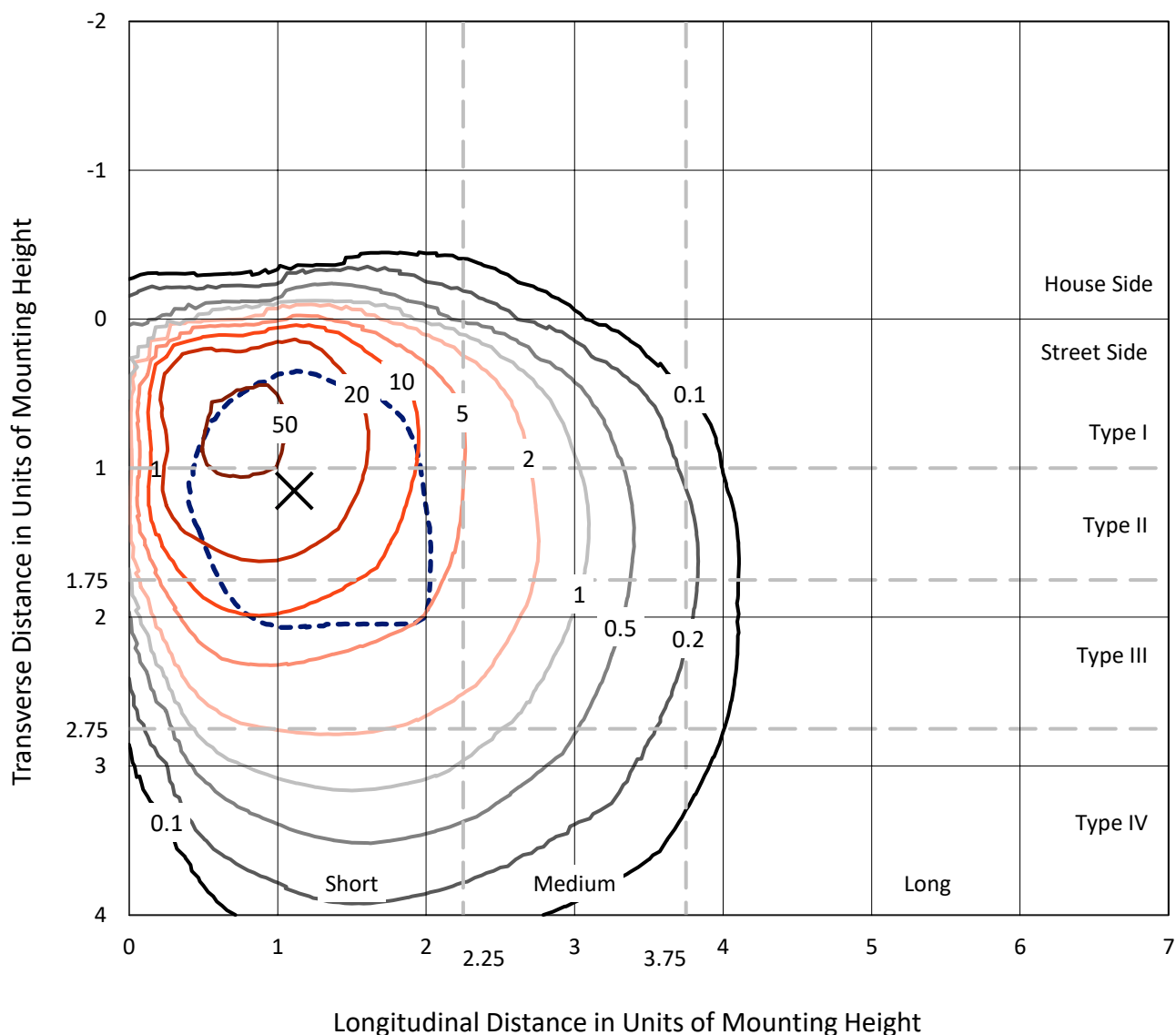
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

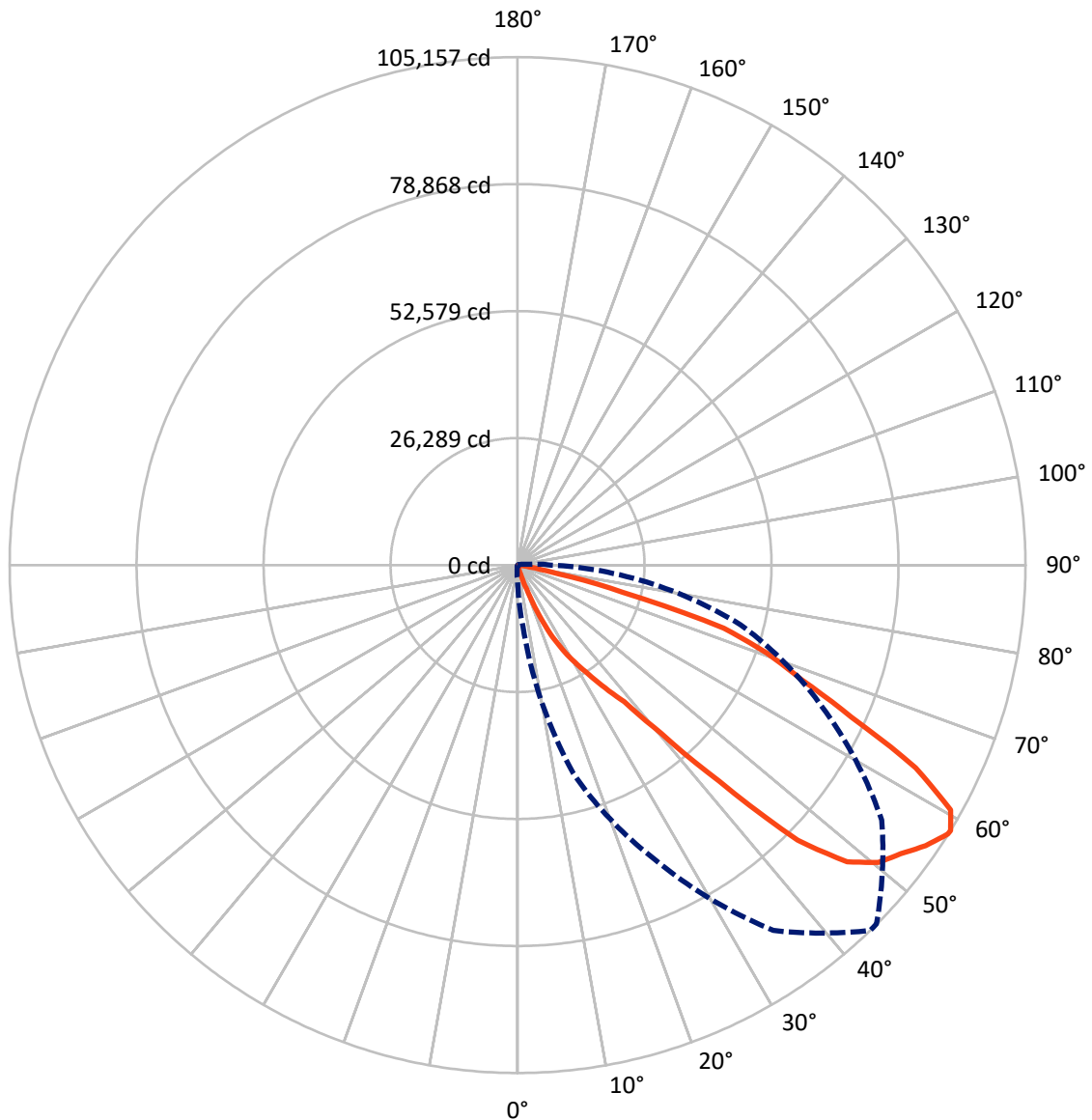


Based on 20 foot mounting height. Maximum calculated value = 71.4 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	279.9	0.0	279.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	40710.8	0.0	40710.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	40990.7	0.0	40990.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.0	0.0
10°-20°	89.9	0.2
20°-30°	971.1	2.4
30°-40°	2871.8	7.0
40°-50°	8559.5	20.9
50°-60°	13581.9	33.1
60°-70°	11328.9	27.6
70°-80°	3494.0	8.5
80°-90°	77.6	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	40990.7	100.0
0°-180°	40990.7	100.0



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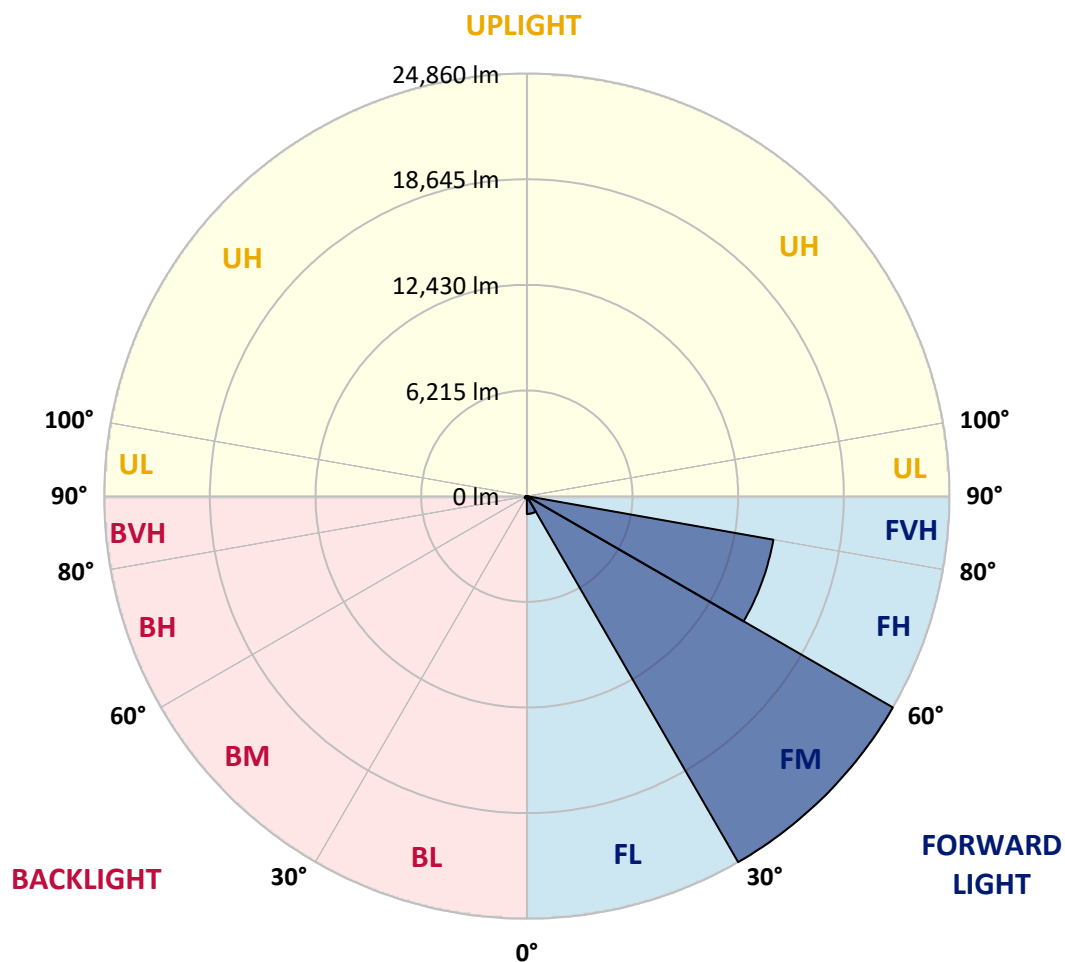
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1049.6	2.6			
FM	(30°-60°)	24860.0	60.6			
FH	(60°-80°)	14727.4	35.9			G5
FVH	(80°-90°)	73.9	0.2			G1/100
BL	(0°-30°)	27.4	0.1	B0/110		
BM	(30°-60°)	153.2	0.4	B0/220		
BH	(60°-80°)	95.6	0.2	B0/110		G0/110
BVH	(80°-90°)	3.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6
2.5°	232.2	232.2	222.9	210.6	198.2	185.8	182.7	176.5	173.4	170.3
5°	241.5	241.5	238.4	229.1	216.8	207.5	207.5	198.2	192.0	185.8
7.5°	247.7	250.8	257.0	253.9	247.7	238.4	238.4	232.2	222.9	207.5
10°	257.0	266.3	278.7	284.9	288.0	288.0	284.9	281.8	266.3	244.6
12.5°	266.3	284.9	315.8	346.8	365.4	390.2	387.1	380.9	340.6	294.2
15°	284.9	312.7	377.8	467.6	606.9	693.6	727.7	696.7	563.6	396.4
17.5°	306.6	353.0	548.1	978.5	1604.0	1901.3	2080.8	1935.3	1282.0	752.4
20°	328.2	430.4	1018.7	2536.0	4161.7	5134.0	5403.4	4982.3	3198.7	1433.7
22.5°	365.4	603.8	2065.4	5242.4	8967.5	10425.9	10701.5	9354.5	6041.3	2830.2
25°	442.8	876.3	3561.0	8543.2	13383.1	15844.8	15730.2	13965.2	9800.4	4520.9
27.5°	554.3	1275.8	5384.8	12138.3	17612.9	19783.5	20043.7	17860.6	13064.1	6648.2
30°	715.3	1768.1	7341.8	15018.0	21003.6	23350.7	23394.1	21136.7	15984.1	8515.4
32.5°	870.1	2232.6	9054.2	17801.8	24344.7	26917.9	27109.9	24332.3	18164.1	10460.0
35°	987.8	2536.0	10788.2	20248.0	27713.7	31259.2	31246.8	27949.0	20746.6	12197.1
37.5°	997.1	2839.5	12358.1	22750.0	31980.7	35950.4	36343.6	32708.3	23867.8	14346.1
40°	975.4	3180.1	14346.1	26651.6	39669.3	45760.1	46106.9	41524.1	30129.0	18024.7
42.5°	1000.2	3771.5	17572.6	33857.1	52436.1	61183.8	61852.6	57034.5	41638.7	25530.7
45°	1130.2	4883.2	24332.3	45911.8	70634.3	81298.6	81075.7	74136.4	55031.0	36956.7
47.5°	1560.6	7605.0	34352.6	57644.5	82264.7	91761.7	91953.7	83472.4	62846.6	45741.5
50°	2399.8	11636.7	42772.0	63846.8	87265.6	96793.5	96613.9	86813.5	65816.1	50067.3
52.5°	3121.3	14553.6	46995.6	66023.6	87906.6	99280.0	99267.6	87692.9	66277.5	50438.9
55°	3300.9	14773.4	47029.7	66141.3	89343.3	102534.4	102943.2	89857.4	66875.1	48816.3
57.5°	3229.7	13079.6	45066.5	66822.5	91901.1	105051.9	105073.6	91953.7	68392.4	47822.4
58°	3167.7	12813.3	44670.1	67209.6	92340.8	105157.2	105104.5	92049.7	69627.9	47785.2
60°	2820.9	11125.7	43125.0	68197.3	91687.4	102995.8	102503.5	89953.4	69445.2	47404.3
62.5°	2217.1	8679.5	41604.6	67054.7	84683.1	92532.7	92737.1	79638.9	63308.0	45184.1
65°	1765.0	6468.6	38433.8	58818.0	69733.2	75988.1	76749.9	64760.2	52841.8	38260.4
67.5°	1405.8	4675.7	32240.8	46828.4	55179.6	63419.4	63973.7	54371.5	40938.8	29314.6
70°	1142.6	3161.5	22254.6	34247.3	45512.4	54777.1	54811.2	45168.7	30556.3	19207.6
72.5°	1012.6	2189.2	12918.6	24976.4	36904.1	44636.1	43735.0	36653.3	23483.9	11376.5
75°	876.3	1452.3	6335.4	15268.8	22375.3	22527.0	22870.8	17002.9	11738.8	5409.6
77.5°	721.5	1031.1	2495.8	4171.0	6710.1	8589.7	8908.6	6750.4	3904.7	1331.5
80°	495.4	489.2	671.9	1278.9	1919.8	2406.0	2245.0	1737.1	1021.8	510.9
82.5°	213.7	232.2	303.5	365.4	297.3	288.0	275.6	176.5	136.2	105.3
85°	68.1	61.9	65.0	65.0	52.6	40.3	40.3	18.6	0.0	0.0
87.5°	34.1	27.9	27.9	24.8	15.5	6.2	3.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
179.6	0°	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6
167.2	2.5°	164.1	164.1	157.9	151.7	148.6	142.4	139.3	136.2	133.1	130.1
179.6	5°	173.4	170.3	161.0	151.7	142.4	133.1	127.0	120.8	114.6	111.5
198.2	7.5°	188.9	182.7	164.1	148.6	136.2	123.9	117.7	108.4	102.2	92.9
219.9	10°	207.5	195.1	170.3	151.7	133.1	117.7	108.4	99.1	89.8	77.4
250.8	12.5°	232.2	210.6	179.6	148.6	127.0	108.4	99.1	86.7	77.4	68.1
291.1	15°	253.9	226.0	182.7	148.6	120.8	99.1	86.7	74.3	65.0	52.6
365.4	17.5°	284.9	238.4	179.6	139.3	111.5	86.7	74.3	65.0	49.5	31.0
541.9	20°	337.5	247.7	173.4	130.1	96.0	71.2	55.7	43.4	21.7	6.2
814.4	22.5°	421.1	272.5	167.2	117.7	83.6	55.7	37.2	15.5	0.0	0.0
1238.6	25°	582.1	315.8	167.2	111.5	74.3	40.3	12.4	0.0	0.0	0.0
1758.8	27.5°	774.1	374.7	167.2	96.0	58.8	21.7	0.0	0.0	0.0	0.0
2396.7	30°	969.2	439.7	167.2	83.6	46.4	3.1	0.0	0.0	0.0	0.0
2951.0	32.5°	1155.0	495.4	170.3	71.2	31.0	0.0	0.0	0.0	0.0	0.0
3718.9	35°	1343.9	504.7	167.2	61.9	18.6	0.0	0.0	0.0	0.0	0.0
4660.2	37.5°	1585.4	486.2	157.9	55.7	9.3	0.0	0.0	0.0	0.0	0.0
6131.1	40°	1950.8	495.4	148.6	52.6	3.1	0.0	0.0	0.0	0.0	0.0
8753.8	42.5°	2625.8	535.7	136.2	52.6	0.0	0.0	0.0	0.0	0.0	0.0
13943.5	45°	4539.5	718.4	123.9	55.7	0.0	0.0	0.0	0.0	0.0	0.0
20932.3	47.5°	7509.0	1291.2	120.8	55.7	0.0	0.0	0.0	0.0	0.0	0.0
25214.8	50°	9583.7	1625.7	127.0	58.8	0.0	0.0	0.0	0.0	0.0	0.0
25750.5	52.5°	9568.2	1811.5	133.1	61.9	12.4	0.0	0.0	0.0	0.0	0.0
23734.7	55°	8506.1	1845.5	142.4	68.1	40.3	0.0	0.0	0.0	0.0	0.0
20396.7	57.5°	7109.6	1684.5	164.1	83.6	74.3	0.0	0.0	0.0	0.0	0.0
19873.3	58°	6861.8	1610.2	170.3	86.7	80.5	0.0	0.0	0.0	0.0	0.0
17238.2	60°	5623.2	1312.9	216.8	108.4	108.4	0.0	0.0	0.0	0.0	0.0
14132.4	62.5°	3883.0	1145.7	247.7	139.3	111.5	0.0	0.0	0.0	0.0	0.0
10419.7	65°	2746.6	1034.2	269.4	148.6	89.8	0.0	0.0	0.0	0.0	0.0
7403.7	67.5°	2053.0	953.7	297.3	151.7	46.4	0.0	0.0	0.0	0.0	0.0
4644.8	70°	1573.0	894.9	365.4	161.0	12.4	0.0	0.0	0.0	0.0	0.0
2768.3	72.5°	1282.0	826.8	442.8	167.2	0.0	0.0	0.0	0.0	0.0	0.0
1659.7	75°	1062.1	746.3	427.3	182.7	0.0	0.0	0.0	0.0	0.0	0.0
885.6	77.5°	706.0	579.0	390.2	182.7	0.0	0.0	0.0	0.0	0.0	0.0
315.8	80°	247.7	229.1	303.5	161.0	0.0	0.0	0.0	0.0	0.0	0.0
65.0	82.5°	37.2	31.0	43.4	55.7	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
179.6	0°	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6
127.0	2.5°	127.0	127.0	123.9	127.0	127.0	133.1	148.6	170.3	195.1	204.4
108.4	5°	105.3	102.2	99.1	99.1	99.1	108.4	120.8	145.5	173.4	185.8
89.8	7.5°	86.7	83.6	80.5	77.4	77.4	83.6	99.1	127.0	154.8	167.2
74.3	10°	71.2	65.0	61.9	58.8	58.8	65.0	80.5	108.4	139.3	151.7
61.9	12.5°	58.8	49.5	43.4	40.3	37.2	46.4	61.9	86.7	120.8	136.2
46.4	15°	40.3	31.0	21.7	18.6	15.5	24.8	40.3	68.1	102.2	120.8
24.8	17.5°	21.7	9.3	3.1	0.0	0.0	6.2	18.6	49.5	83.6	99.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.8	61.9	77.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	37.2	52.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	27.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	24.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
179.6	0°	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6
213.7	2.5°	219.9	216.8	210.6	204.4	204.4	204.4	213.7	222.9	232.2	232.2
192.0	5°	204.4	204.4	201.3	195.1	195.1	198.2	210.6	226.0	238.4	241.5
176.5	7.5°	188.9	195.1	188.9	185.8	188.9	192.0	204.4	222.9	241.5	247.7
164.1	10°	179.6	182.7	182.7	179.6	179.6	185.8	198.2	222.9	247.7	257.0
148.6	12.5°	167.2	173.4	170.3	170.3	170.3	176.5	192.0	219.9	253.9	266.3
133.1	15°	154.8	164.1	164.1	161.0	161.0	164.1	185.8	216.8	263.2	284.9
114.6	17.5°	142.4	151.7	154.8	148.6	148.6	154.8	176.5	216.8	269.4	306.6
92.9	20°	117.7	133.1	142.4	133.1	133.1	139.3	161.0	204.4	272.5	328.2
68.1	22.5°	92.9	108.4	120.8	117.7	117.7	120.8	148.6	195.1	275.6	365.4
40.3	25°	68.1	83.6	92.9	99.1	99.1	108.4	136.2	188.9	288.0	442.8
18.6	27.5°	40.3	58.8	71.2	77.4	80.5	92.9	127.0	182.7	309.7	554.3
0.0	30°	18.6	34.1	49.5	61.9	61.9	83.6	117.7	176.5	337.5	715.3
0.0	32.5°	0.0	15.5	24.8	43.4	46.4	68.1	108.4	170.3	377.8	870.1
0.0	35°	0.0	0.0	12.4	34.1	34.1	55.7	99.1	164.1	439.7	987.8
0.0	37.5°	0.0	0.0	0.0	24.8	27.9	49.5	96.0	161.0	452.1	997.1
0.0	40°	0.0	0.0	0.0	18.6	21.7	46.4	96.0	164.1	408.7	975.4
0.0	42.5°	0.0	0.0	0.0	12.4	15.5	46.4	96.0	170.3	368.5	1000.2
0.0	45°	0.0	0.0	0.0	9.3	12.4	49.5	92.9	167.2	346.8	1130.2
0.0	47.5°	0.0	0.0	0.0	12.4	18.6	49.5	89.8	164.1	349.9	1560.6
0.0	50°	0.0	0.0	0.0	15.5	21.7	49.5	92.9	157.9	384.0	2399.8
0.0	52.5°	0.0	0.0	0.0	12.4	18.6	55.7	102.2	154.8	418.0	3121.3
0.0	55°	0.0	0.0	0.0	3.1	9.3	71.2	111.5	154.8	470.7	3300.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	80.5	127.0	164.1	557.4	3229.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	80.5	130.1	164.1	563.6	3167.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	80.5	142.4	182.7	606.9	2820.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	68.1	170.3	229.1	631.7	2217.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	55.7	201.3	250.8	650.3	1765.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	52.6	207.5	253.9	659.6	1405.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	55.7	204.4	272.5	690.5	1142.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	61.9	185.8	300.4	690.5	1012.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	65.0	173.4	337.5	628.6	876.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	61.9	170.3	393.3	560.5	721.5
0.0	80°	6.2	9.3	9.3	6.2	6.2	52.6	167.2	399.4	476.9	495.4
3.1	82.5°	18.6	24.8	21.7	15.5	15.5	46.4	148.6	334.4	247.7	213.7
18.6	85°	34.1	40.3	40.3	34.1	34.1	43.4	92.9	120.8	83.6	68.1
34.1	87.5°	46.4	52.6	52.6	46.4	46.4	43.4	40.3	37.2	34.1	34.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

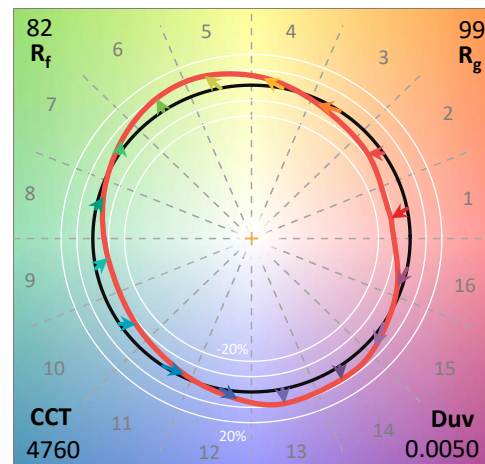
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-12
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-850-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4760
 CIE u' : 0.2107
 CIE v' : 0.4939
 Duv: 0.0050
 CIE x: 0.3537
 CIE y: 0.3685
 CIE z: 0.2779
 Peak Wavelength (nm): 443
 Dominant Wavelength (nm): 571
 Purity: 16.69598
 R_f: 82
 R_g: 99.4

CRI (Ra): 81.1
 R1: 79.8
 R2: 83.5
 R3: 87.9
 R4: 83.1
 R5: 80.5
 R6: 79.1
 R7: 86.1
 R8: 69.0
 R9: 8.7
 R10: 62.4
 R11: 83.8
 R12: 63.0
 R13: 79.9
 R14: 93.3
 R15: 72.7



Test Conditions

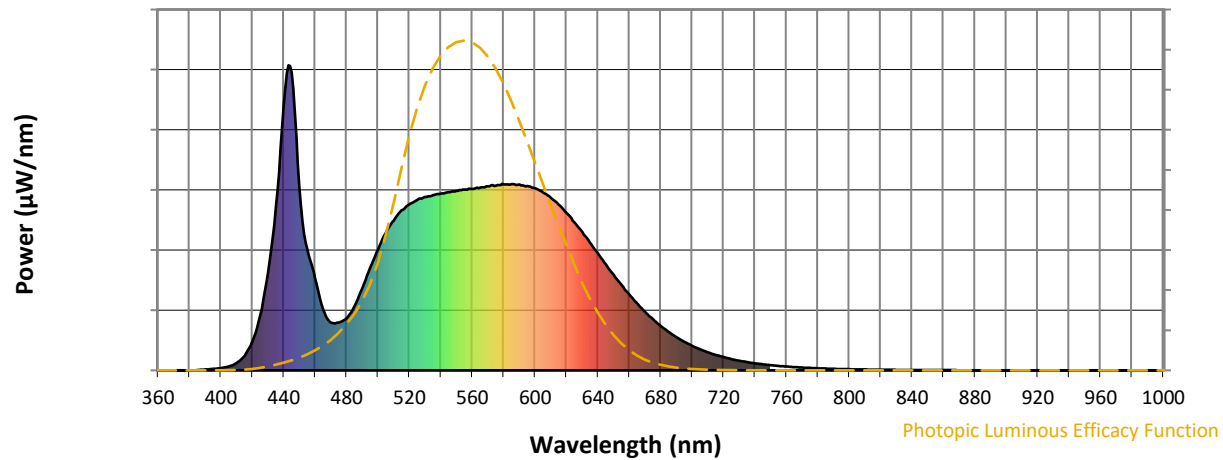
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

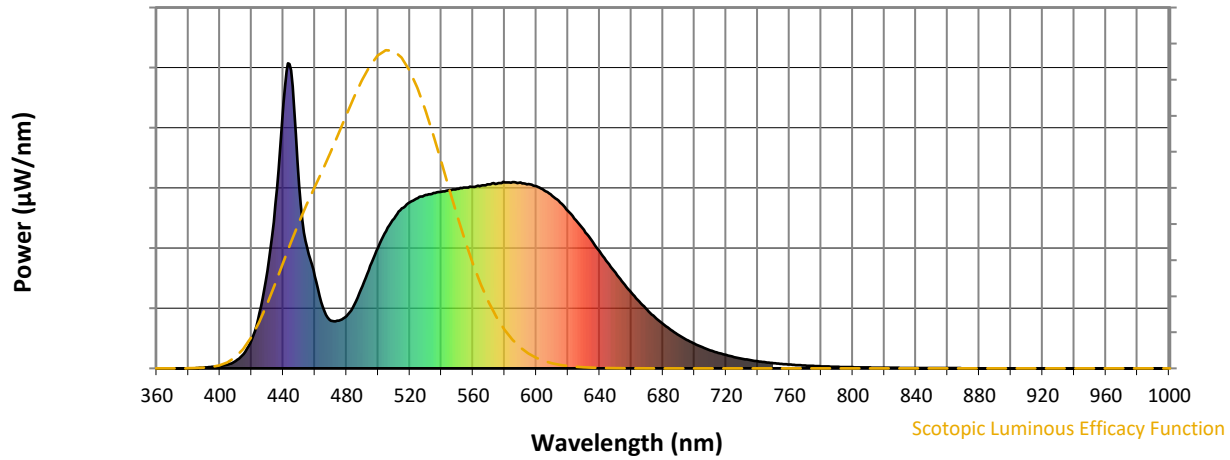


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

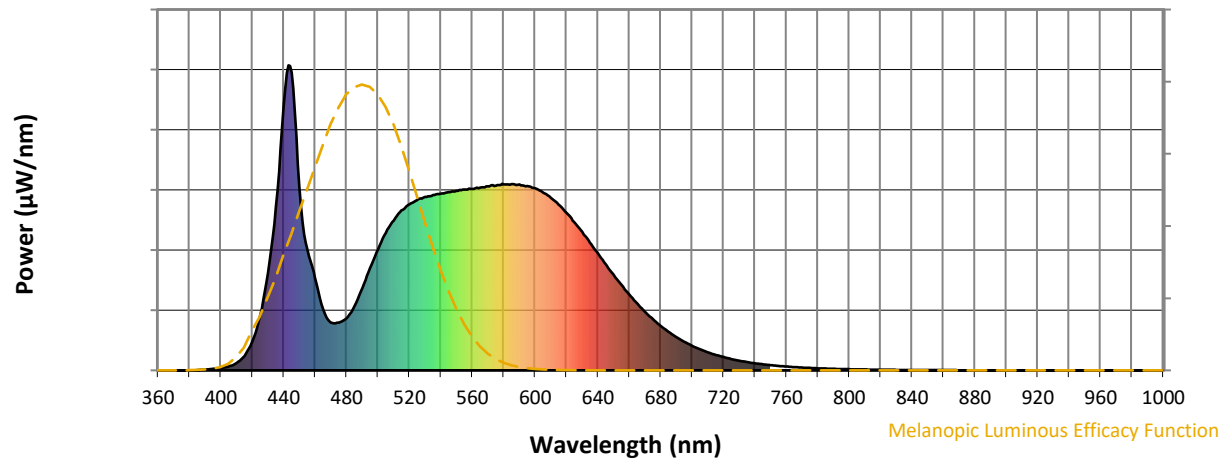
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.83

λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

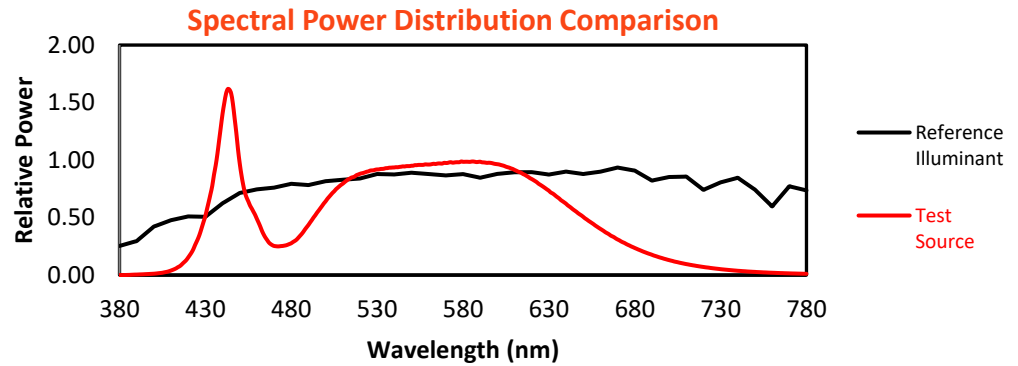
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

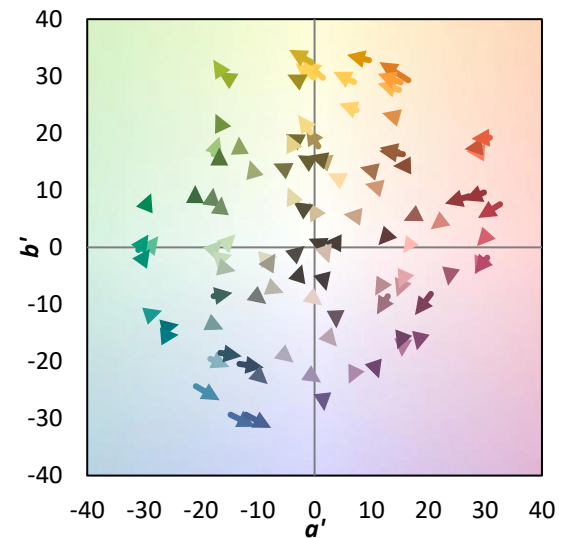
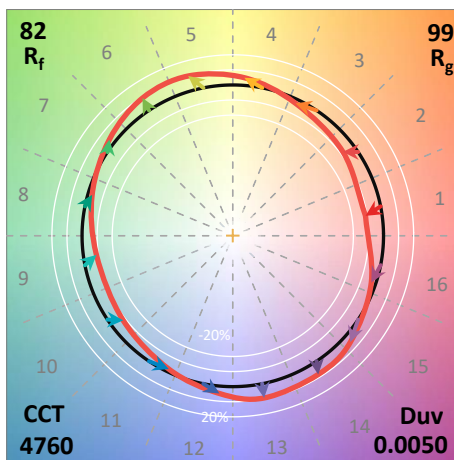
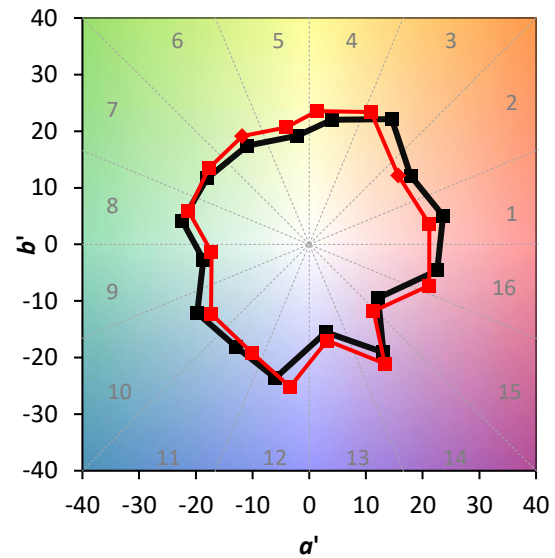
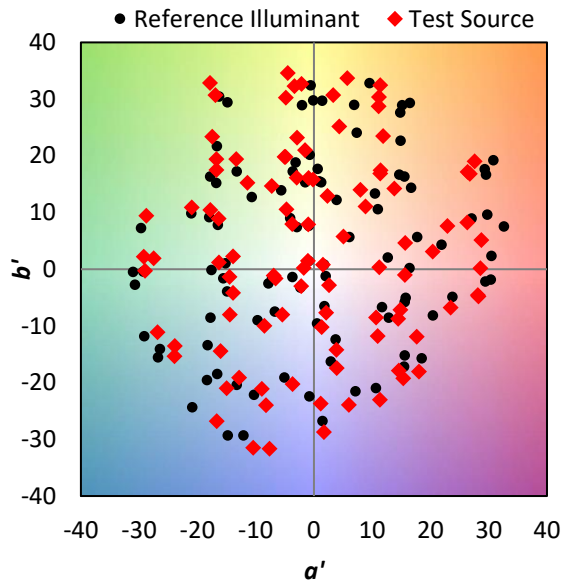
TM-30-18

Summary

$R_f = 82$
 $R_g = 99.4$
 $\text{CIE } R_a = 81.1$
 $R_9 = 8.7$

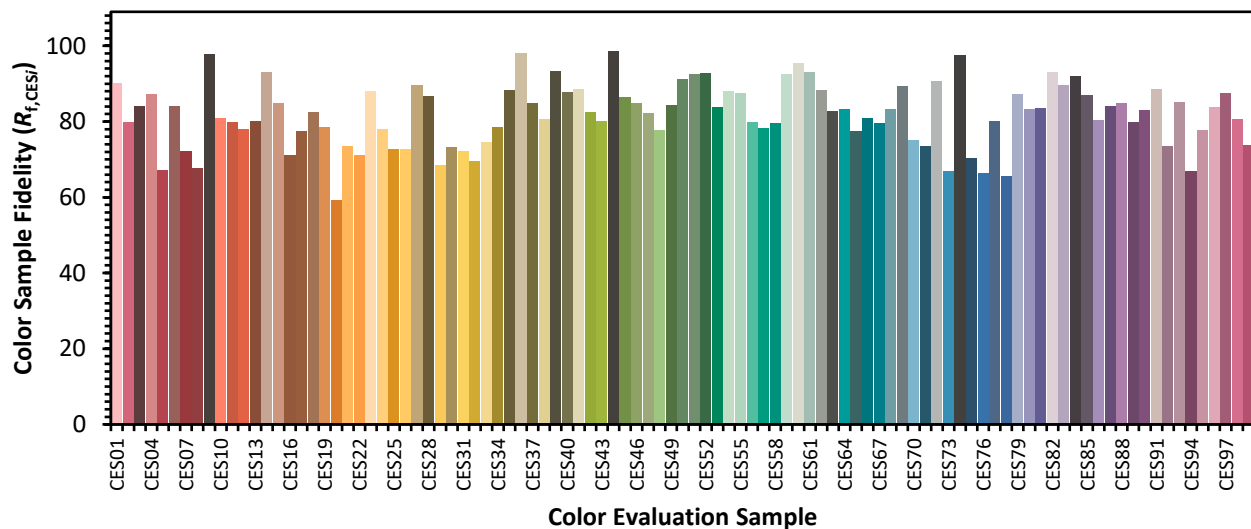


Color Vector Graphics

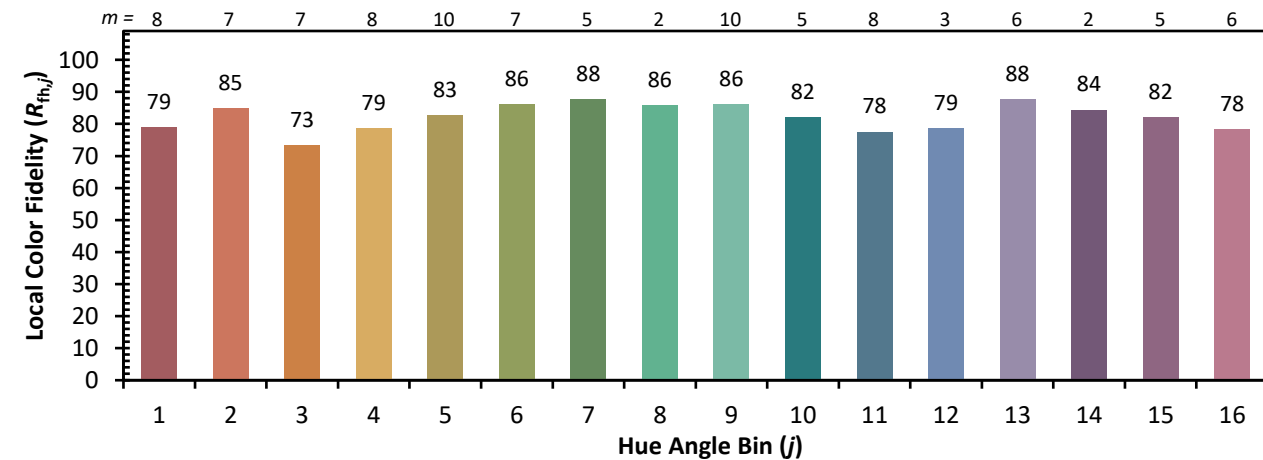
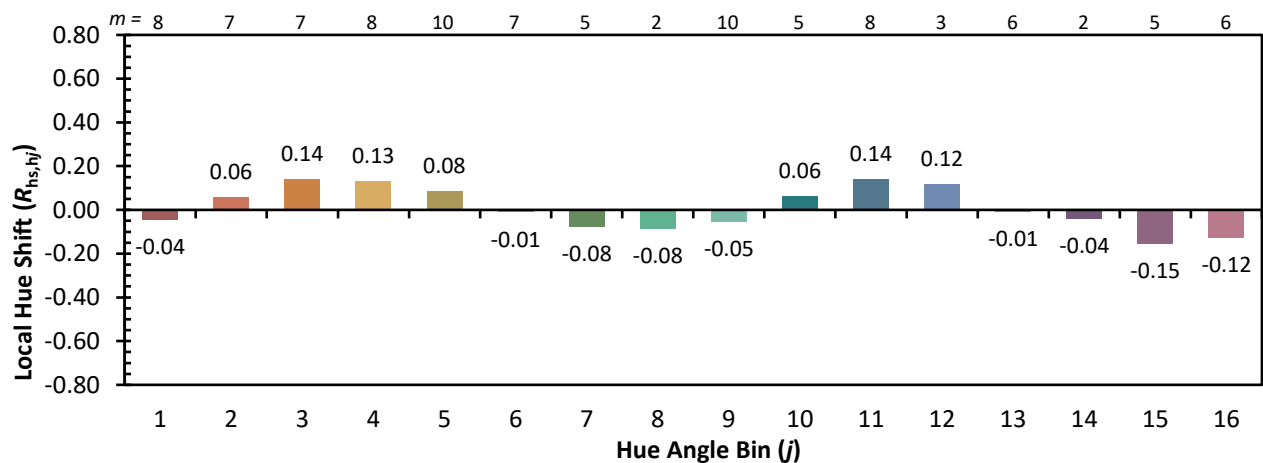
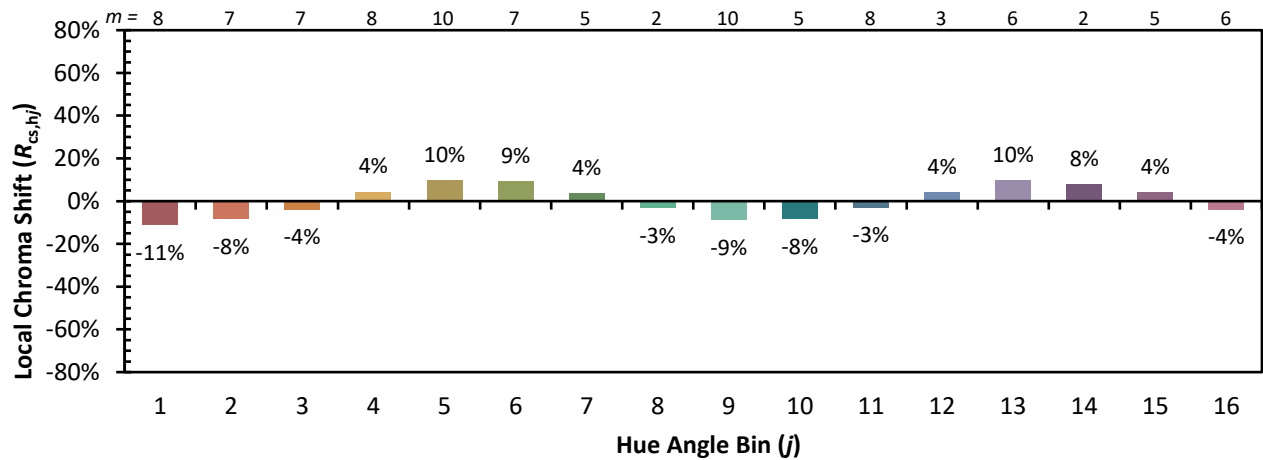


Individual Sample Fidelity Index ($R_{f,i}$)

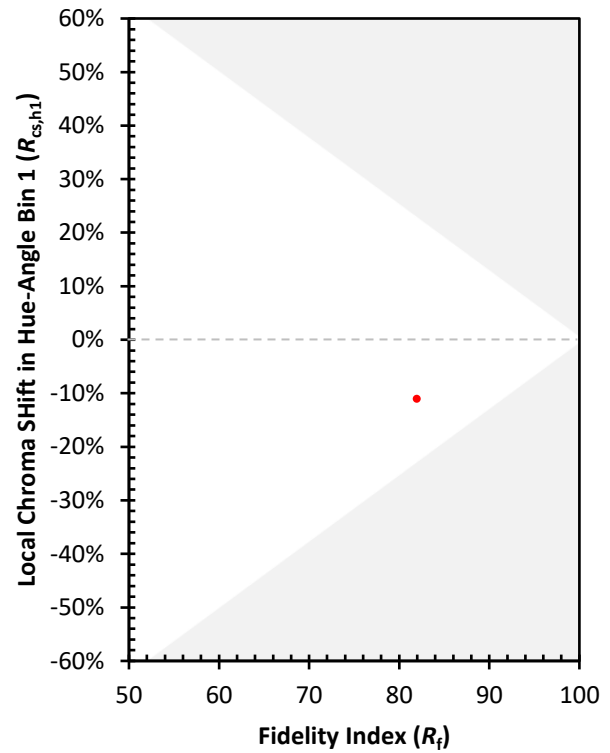
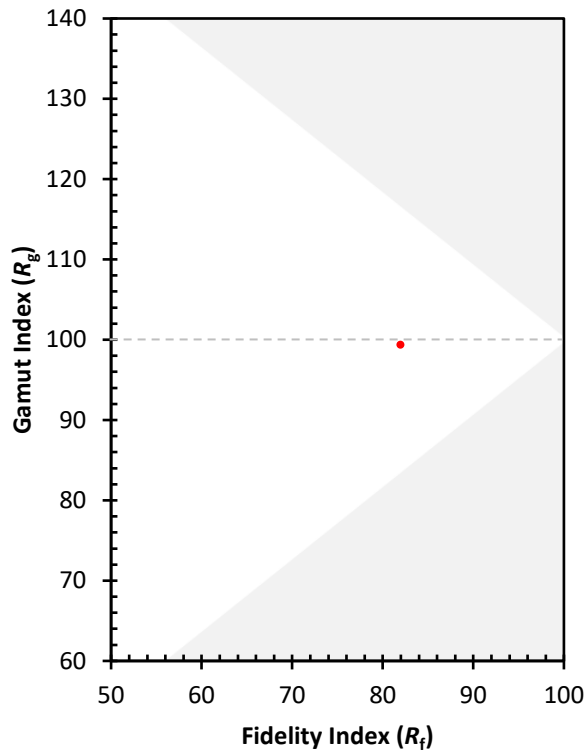
CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
CES23 = 91	CES48 = 78	CES73 = 67	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
CES25 = 71	CES50 = 91	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)