

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: P1049486

Luminaire Tested: **GALN-SA7B-740-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049486
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 7xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28474.6 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

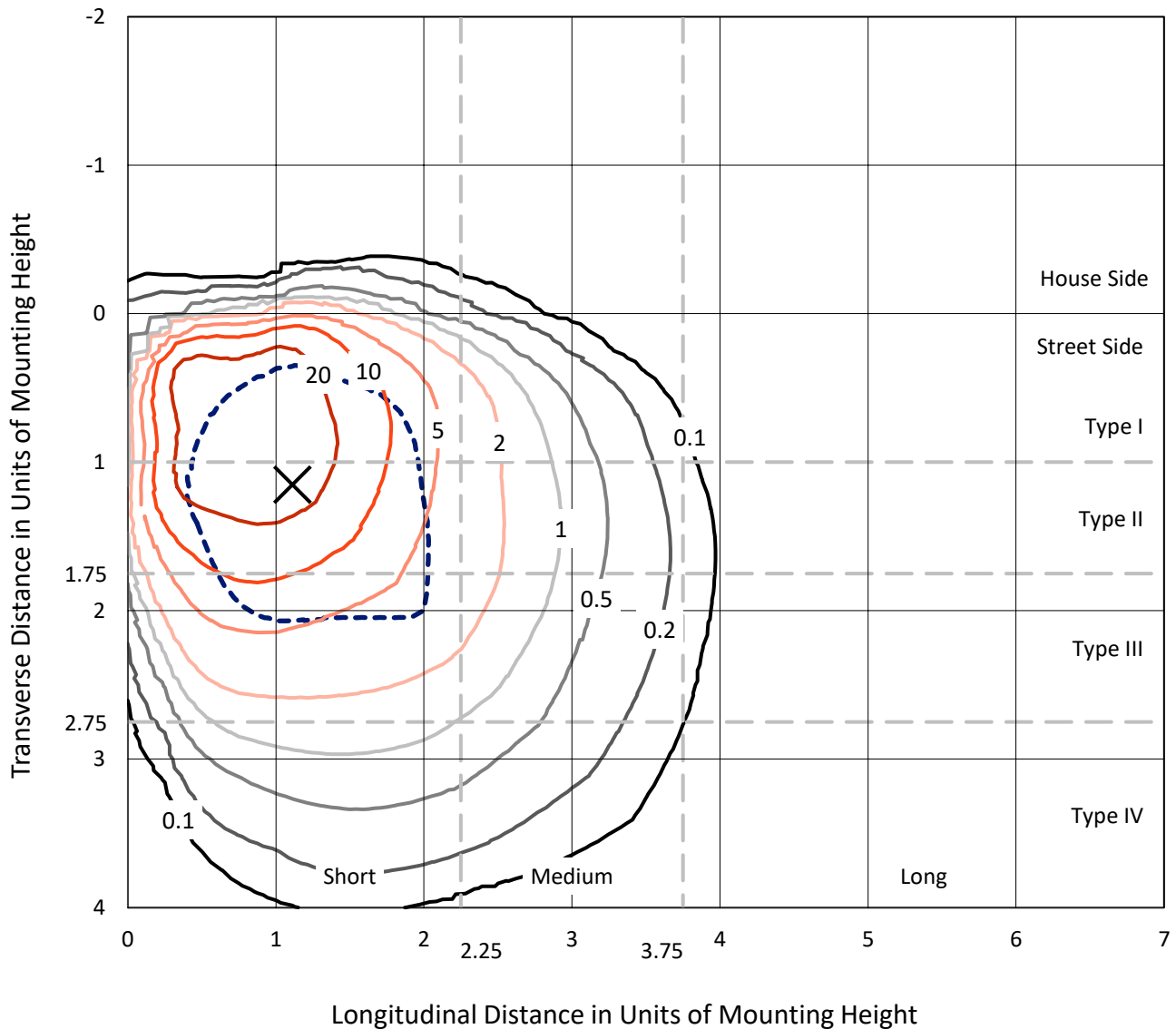
Input Watts (W): 249.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

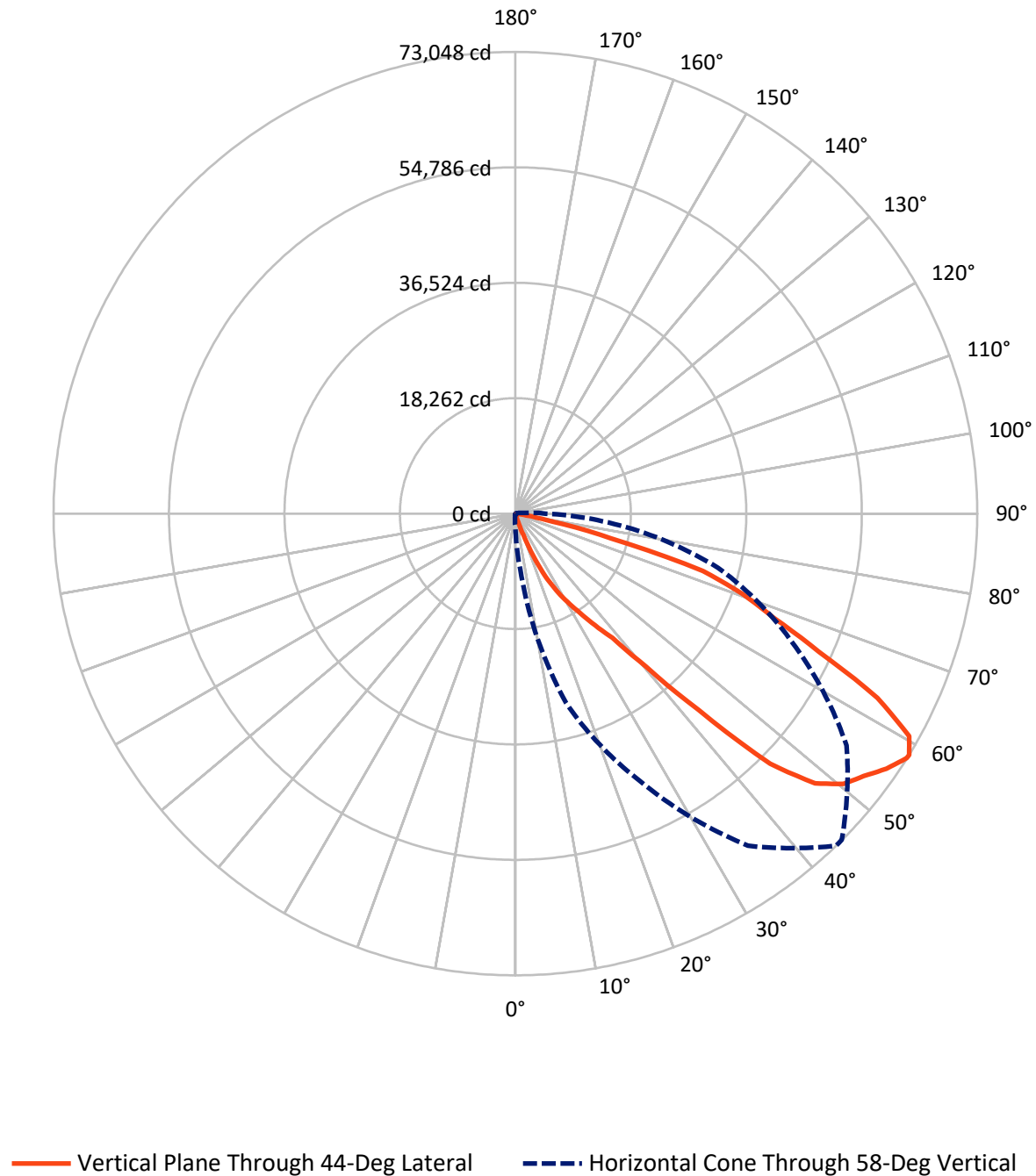
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 49.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	194.4	0.0	194.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	28280.2	0.0	28280.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	28474.6	0.0	28474.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	0.0
10°-20°	62.4	0.2
20°-30°	674.6	2.4
30°-40°	1994.9	7.0
40°-50°	5945.9	20.9
50°-60°	9434.8	33.1
60°-70°	7869.7	27.6
70°-80°	2427.2	8.5
80°-90°	53.9	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°	28474.6	100.0
0°-180°	28474.6	100.0



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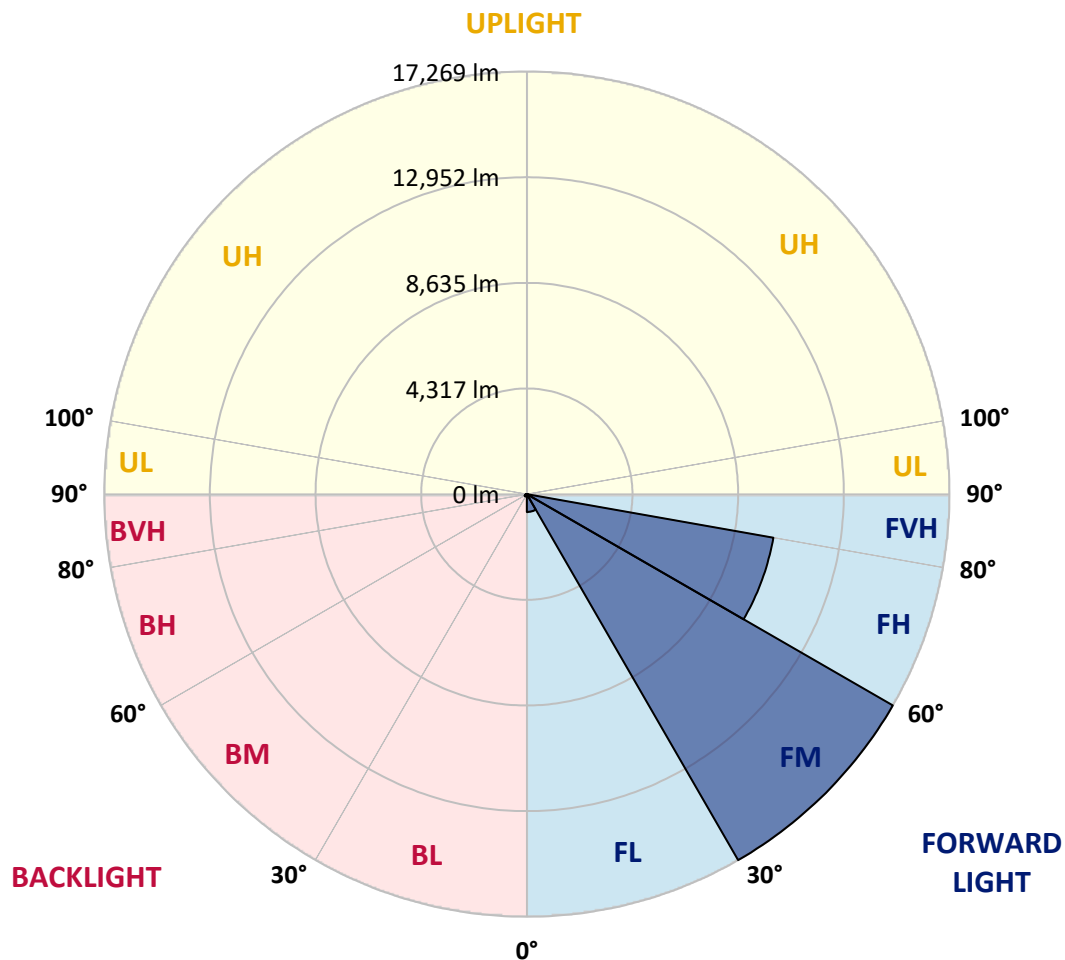
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	729.1	2.6			
FM	(30°-60°)	17269.2	60.6			
FH	(60°-80°)	10230.5	35.9			G4/12000
FVH	(80°-90°)	51.3	0.2			G1/100
BL	(0°-30°)	19.0	0.1	B0/110		
BM	(30°-60°)	106.4	0.4	B0/220		
BH	(60°-80°)	66.4	0.2	B0/110		G0/110
BVH	(80°-90°)	2.6	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8
2.5°	161.3	161.3	154.9	146.3	137.7	129.1	126.9	122.6	120.5	118.3
5°	167.8	167.8	165.6	159.2	150.6	144.1	144.1	137.7	133.4	129.1
7.5°	172.1	174.2	178.5	176.4	172.1	165.6	165.6	161.3	154.9	144.1
10°	178.5	185.0	193.6	197.9	200.0	200.0	197.9	195.7	185.0	169.9
12.5°	185.0	197.9	219.4	240.9	253.8	271.0	268.9	264.6	236.6	204.3
15°	197.9	217.3	262.4	324.8	421.6	481.8	505.5	484.0	391.5	275.3
17.5°	213.0	245.2	380.7	679.7	1114.2	1320.7	1445.5	1344.4	890.5	522.7
20°	228.0	299.0	707.7	1761.7	2891.0	3566.4	3753.5	3461.0	2222.0	995.9
22.5°	253.8	419.4	1434.7	3641.7	6229.3	7242.5	7433.9	6498.2	4196.6	1966.0
25°	307.6	608.7	2473.7	5934.6	9296.7	11006.7	10927.1	9701.1	6808.0	3140.5
27.5°	385.0	886.2	3740.6	8432.0	12235.0	13742.8	13923.5	12407.0	9075.1	4618.2
30°	496.9	1228.2	5100.1	10432.4	14590.3	16220.8	16250.9	14682.8	11103.5	5915.3
32.5°	604.4	1550.9	6289.6	12366.2	16911.3	18698.7	18832.1	16902.7	12617.8	7266.1
35°	686.2	1761.7	7494.1	14065.5	19251.6	21714.5	21705.9	19415.0	14411.8	8472.8
37.5°	692.6	1972.5	8584.7	15803.5	22215.7	24973.3	25246.4	22721.1	16580.0	9965.6
40°	677.6	2209.1	9965.6	18513.8	27556.6	31787.7	32028.6	28845.1	20929.3	12521.0
42.5°	694.8	2619.9	12207.0	23519.2	36425.2	42501.9	42966.5	39619.5	28924.7	17735.1
45°	785.1	3392.1	16902.7	31893.1	49066.7	56474.8	56320.0	51499.5	38227.8	25672.3
47.5°	1084.1	5282.9	23863.3	40043.2	57145.9	63743.1	63876.5	57984.8	43656.9	31774.8
50°	1667.0	8083.5	29711.9	44351.7	60619.8	67238.5	67113.7	60305.8	45719.8	34779.7
52.5°	2168.2	10109.8	32645.9	45863.9	61065.1	68965.8	68957.2	60916.7	46040.3	35037.8
55°	2293.0	10262.5	32669.6	45945.6	62063.2	71226.5	71510.4	62420.2	46455.4	33910.7
57.5°	2243.5	9085.9	31305.8	46418.8	63839.9	72975.2	72990.3	63876.5	47509.4	33220.2
58°	2200.5	8900.9	31030.5	46687.7	64145.3	73048.4	73011.8	63943.1	48367.7	33194.4
60°	1959.6	7728.6	29957.1	47373.9	63691.5	71547.0	71205.0	62486.9	48240.8	32929.8
62.5°	1540.1	6029.3	28901.0	46580.2	58825.9	64278.7	64420.7	55321.9	43977.4	31387.6
65°	1226.1	4493.5	26698.4	40858.5	48440.8	52785.8	53315.0	44986.3	36707.0	26577.9
67.5°	976.6	3248.0	22396.3	32529.8	38331.0	44054.9	44439.9	37769.6	28438.5	20363.6
70°	793.7	2196.2	15459.3	23790.2	31615.6	38051.4	38075.1	31376.8	21226.2	13342.7
72.5°	703.4	1520.8	8974.0	17350.1	25635.8	31006.8	30380.9	25461.5	16313.3	7902.8
75°	608.7	1008.8	4401.0	10606.6	15543.2	15648.6	15887.4	11811.2	8154.5	3757.8
77.5°	501.2	716.3	1733.7	2897.4	4661.2	5966.9	6188.5	4689.2	2712.4	924.9
80°	344.2	339.9	466.8	888.4	1333.6	1671.3	1559.5	1206.7	709.8	354.9
82.5°	148.4	161.3	210.8	253.8	206.5	200.0	191.4	122.6	94.6	73.1
85°	47.3	43.0	45.2	45.2	36.6	28.0	28.0	12.9	0.0	0.0
87.5°	23.7	19.4	19.4	17.2	10.8	4.3	2.2	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°
124.8	0°	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8
116.2	2.5°	114.0	114.0	109.7	105.4	103.2	98.9	96.8	94.6	92.5	90.3
124.8	5°	120.5	118.3	111.9	105.4	98.9	92.5	88.2	83.9	79.6	77.4
137.7	7.5°	131.2	126.9	114.0	103.2	94.6	86.0	81.7	75.3	71.0	64.5
152.7	10°	144.1	135.5	118.3	105.4	92.5	81.7	75.3	68.8	62.4	53.8
174.2	12.5°	161.3	146.3	124.8	103.2	88.2	75.3	68.8	60.2	53.8	47.3
202.2	15°	176.4	157.0	126.9	103.2	83.9	68.8	60.2	51.6	45.2	36.6
253.8	17.5°	197.9	165.6	124.8	96.8	77.4	60.2	51.6	45.2	34.4	21.5
376.4	20°	234.5	172.1	120.5	90.3	66.7	49.5	38.7	30.1	15.1	4.3
565.7	22.5°	292.5	189.3	116.2	81.7	58.1	38.7	25.8	10.8	0.0	0.0
860.4	25°	404.4	219.4	116.2	77.4	51.6	28.0	8.6	0.0	0.0	0.0
1221.8	27.5°	537.8	260.3	116.2	66.7	40.9	15.1	0.0	0.0	0.0	0.0
1664.9	30°	673.3	305.4	116.2	58.1	32.3	2.2	0.0	0.0	0.0	0.0
2049.9	32.5°	802.3	344.2	118.3	49.5	21.5	0.0	0.0	0.0	0.0	0.0
2583.4	35°	933.5	350.6	116.2	43.0	12.9	0.0	0.0	0.0	0.0	0.0
3237.3	37.5°	1101.3	337.7	109.7	38.7	6.5	0.0	0.0	0.0	0.0	0.0
4259.0	40°	1355.1	344.2	103.2	36.6	2.2	0.0	0.0	0.0	0.0	0.0
6080.9	42.5°	1824.1	372.1	94.6	36.6	0.0	0.0	0.0	0.0	0.0	0.0
9686.0	45°	3153.4	499.0	86.0	38.7	0.0	0.0	0.0	0.0	0.0	0.0
14540.8	47.5°	5216.2	897.0	83.9	38.7	0.0	0.0	0.0	0.0	0.0	0.0
17515.7	50°	6657.4	1129.3	88.2	40.9	0.0	0.0	0.0	0.0	0.0	0.0
17887.8	52.5°	6646.6	1258.3	92.5	43.0	8.6	0.0	0.0	0.0	0.0	0.0
16487.5	55°	5908.8	1282.0	98.9	47.3	28.0	0.0	0.0	0.0	0.0	0.0
14168.7	57.5°	4938.7	1170.2	114.0	58.1	51.6	0.0	0.0	0.0	0.0	0.0
13805.2	58°	4766.6	1118.5	118.3	60.2	55.9	0.0	0.0	0.0	0.0	0.0
11974.7	60°	3906.2	912.0	150.6	75.3	75.3	0.0	0.0	0.0	0.0	0.0
9817.2	62.5°	2697.4	795.9	172.1	96.8	77.4	0.0	0.0	0.0	0.0	0.0
7238.2	65°	1907.9	718.4	187.1	103.2	62.4	0.0	0.0	0.0	0.0	0.0
5143.1	67.5°	1426.1	662.5	206.5	105.4	32.3	0.0	0.0	0.0	0.0	0.0
3226.5	70°	1092.7	621.6	253.8	111.9	8.6	0.0	0.0	0.0	0.0	0.0
1923.0	72.5°	890.5	574.3	307.6	116.2	0.0	0.0	0.0	0.0	0.0	0.0
1152.9	75°	737.8	518.4	296.8	126.9	0.0	0.0	0.0	0.0	0.0	0.0
615.2	77.5°	490.4	402.2	271.0	126.9	0.0	0.0	0.0	0.0	0.0	0.0
219.4	80°	172.1	159.2	210.8	111.9	0.0	0.0	0.0	0.0	0.0	0.0
45.2	82.5°	25.8	21.5	30.1	38.7	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°
124.8	0°	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8
88.2	2.5°	88.2	88.2	86.0	88.2	88.2	92.5	103.2	118.3	135.5	142.0
75.3	5°	73.1	71.0	68.8	68.8	68.8	75.3	83.9	101.1	120.5	129.1
62.4	7.5°	60.2	58.1	55.9	53.8	53.8	58.1	68.8	88.2	107.6	116.2
51.6	10°	49.5	45.2	43.0	40.9	40.9	45.2	55.9	75.3	96.8	105.4
43.0	12.5°	40.9	34.4	30.1	28.0	25.8	32.3	43.0	60.2	83.9	94.6
32.3	15°	28.0	21.5	15.1	12.9	10.8	17.2	28.0	47.3	71.0	83.9
17.2	17.5°	15.1	6.5	2.2	0.0	0.0	4.3	12.9	34.4	58.1	68.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	43.0	53.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	25.8	36.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	19.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
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	6.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	17.2
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°
124.8	0°	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8
148.4	2.5°	152.7	150.6	146.3	142.0	142.0	142.0	148.4	154.9	161.3	161.3
133.4	5°	142.0	142.0	139.8	135.5	135.5	137.7	146.3	157.0	165.6	167.8
122.6	7.5°	131.2	135.5	131.2	129.1	131.2	133.4	142.0	154.9	167.8	172.1
114.0	10°	124.8	126.9	126.9	124.8	124.8	129.1	137.7	154.9	172.1	178.5
103.2	12.5°	116.2	120.5	118.3	118.3	118.3	122.6	133.4	152.7	176.4	185.0
92.5	15°	107.6	114.0	114.0	111.9	111.9	114.0	129.1	150.6	182.8	197.9
79.6	17.5°	98.9	105.4	107.6	103.2	103.2	107.6	122.6	150.6	187.1	213.0
64.5	20°	81.7	92.5	98.9	92.5	92.5	96.8	111.9	142.0	189.3	228.0
47.3	22.5°	64.5	75.3	83.9	81.7	81.7	83.9	103.2	135.5	191.4	253.8
28.0	25°	47.3	58.1	64.5	68.8	68.8	75.3	94.6	131.2	200.0	307.6
12.9	27.5°	28.0	40.9	49.5	53.8	55.9	64.5	88.2	126.9	215.1	385.0
0.0	30°	12.9	23.7	34.4	43.0	43.0	58.1	81.7	122.6	234.5	496.9
0.0	32.5°	0.0	10.8	17.2	30.1	32.3	47.3	75.3	118.3	262.4	604.4
0.0	35°	0.0	0.0	8.6	23.7	23.7	38.7	68.8	114.0	305.4	686.2
0.0	37.5°	0.0	0.0	0.0	17.2	19.4	34.4	66.7	111.9	314.0	692.6
0.0	40°	0.0	0.0	0.0	12.9	15.1	32.3	66.7	114.0	283.9	677.6
0.0	42.5°	0.0	0.0	0.0	8.6	10.8	32.3	66.7	118.3	256.0	694.8
0.0	45°	0.0	0.0	0.0	6.5	8.6	34.4	64.5	116.2	240.9	785.1
0.0	47.5°	0.0	0.0	0.0	8.6	12.9	34.4	62.4	114.0	243.1	1084.1
0.0	50°	0.0	0.0	0.0	10.8	15.1	34.4	64.5	109.7	266.7	1667.0
0.0	52.5°	0.0	0.0	0.0	8.6	12.9	38.7	71.0	107.6	290.4	2168.2
0.0	55°	0.0	0.0	0.0	2.2	6.5	49.5	77.4	107.6	327.0	2293.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	55.9	88.2	114.0	387.2	2243.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	55.9	90.3	114.0	391.5	2200.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	55.9	98.9	126.9	421.6	1959.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	47.3	118.3	159.2	438.8	1540.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	38.7	139.8	174.2	451.7	1226.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	36.6	144.1	176.4	458.2	976.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	38.7	142.0	189.3	479.7	793.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	43.0	129.1	208.6	479.7	703.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	45.2	120.5	234.5	436.7	608.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	43.0	118.3	273.2	389.3	501.2
0.0	80°	4.3	6.5	6.5	4.3	4.3	36.6	116.2	277.5	331.3	344.2
2.2	82.5°	12.9	17.2	15.1	10.8	10.8	32.3	103.2	232.3	172.1	148.4
12.9	85°	23.7	28.0	28.0	23.7	23.7	30.1	64.5	83.9	58.1	47.3
23.7	87.5°	32.3	36.6	36.6	32.3	32.3	30.1	28.0	25.8	23.7	23.7
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

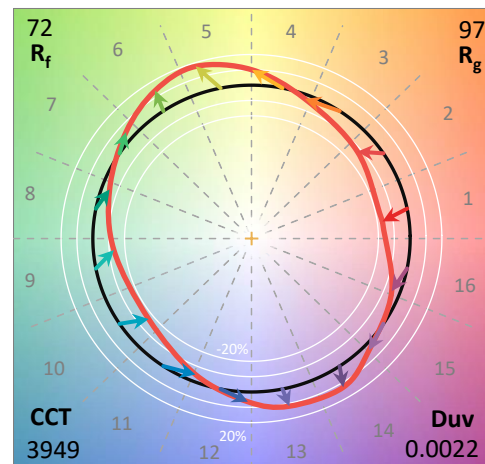
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

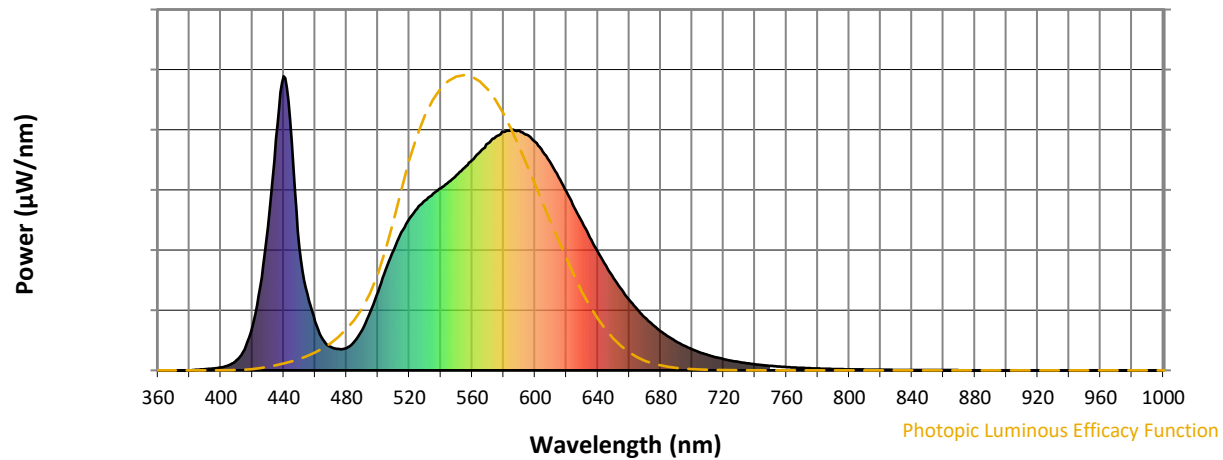
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

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: SP1-2407-184-1

Photopic Flux vs. Wavelength

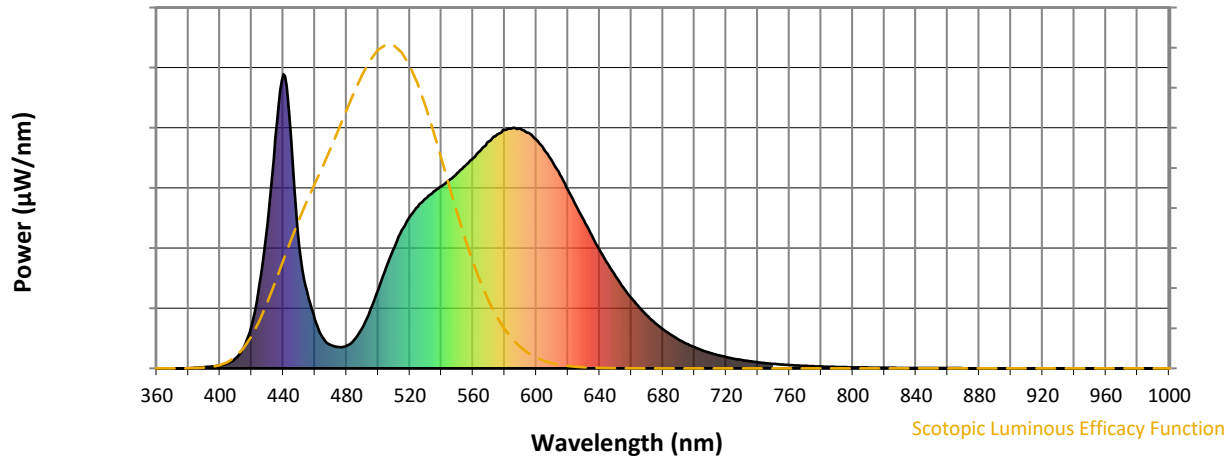


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



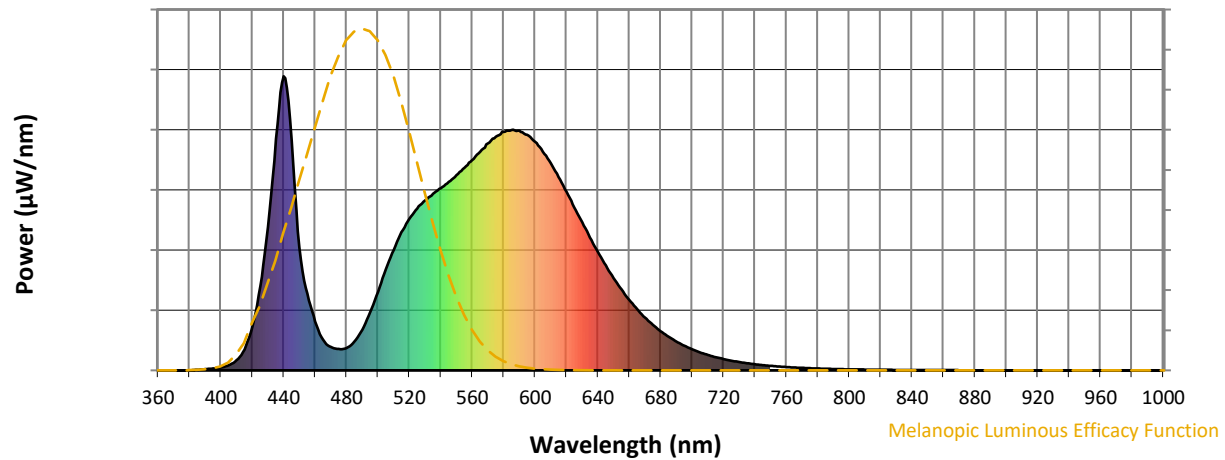
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.78

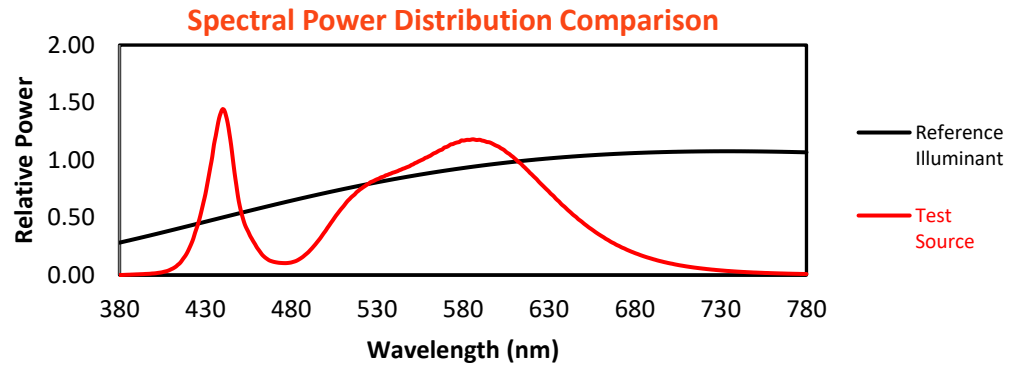
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

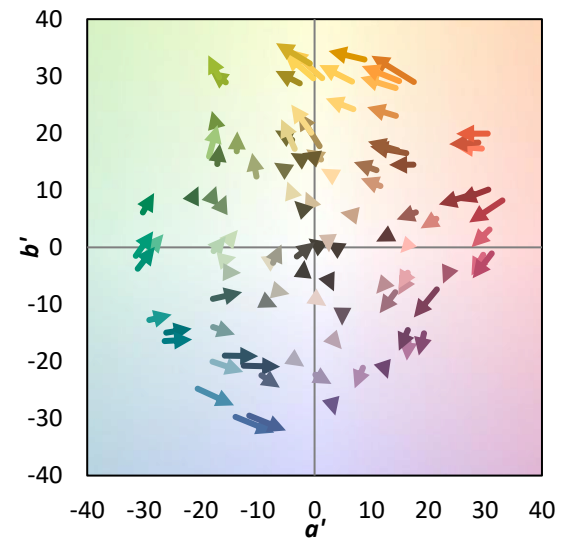
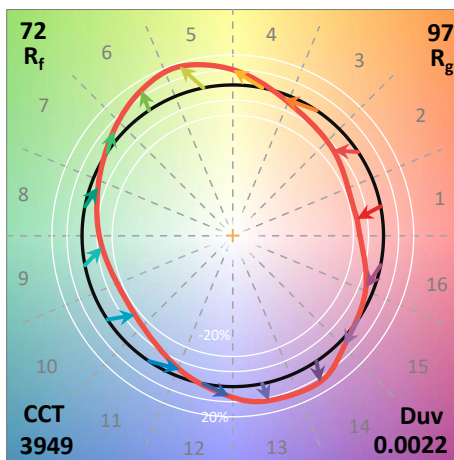
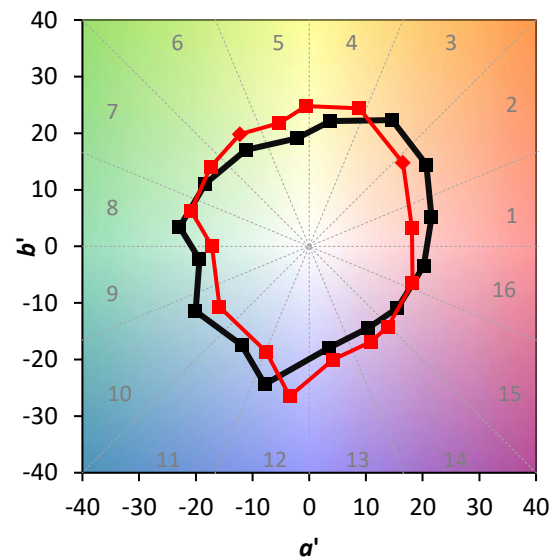
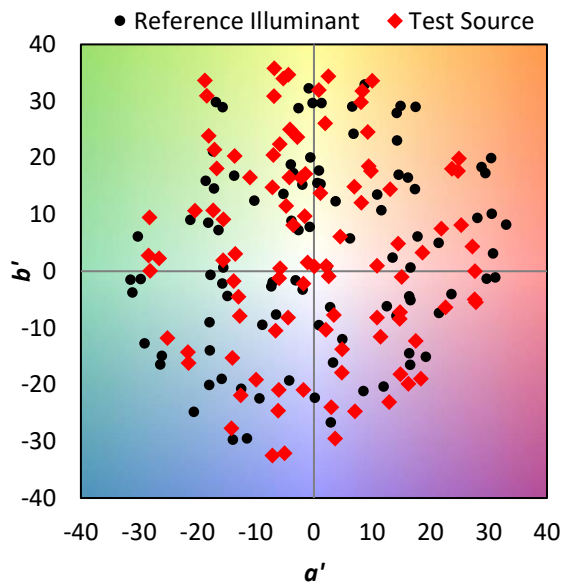
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 $CIE R_a = 70.7$
 $R_g = -36.7$

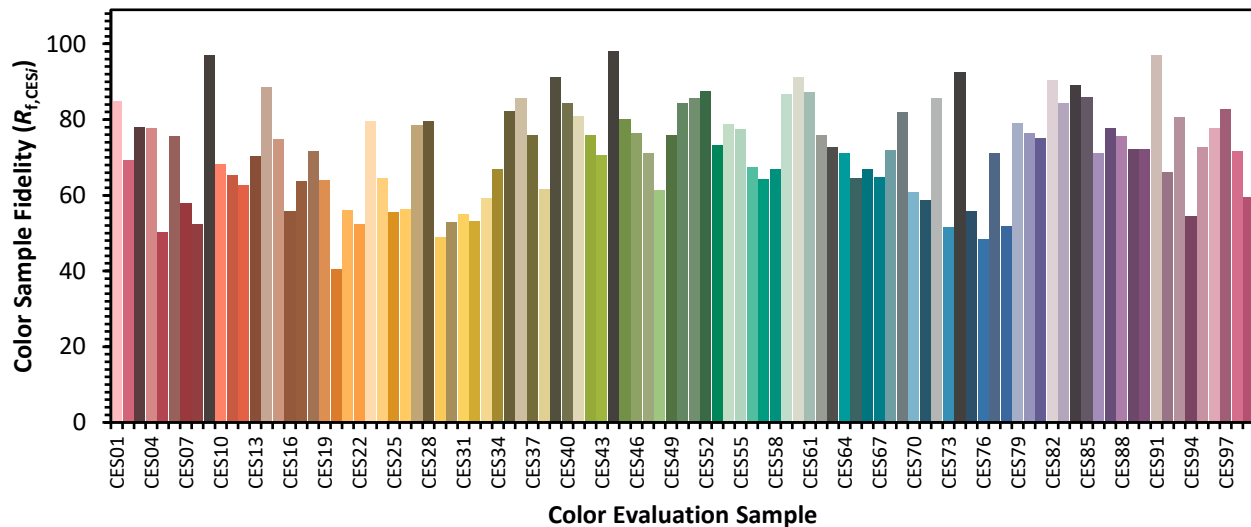


Color Vector Graphics

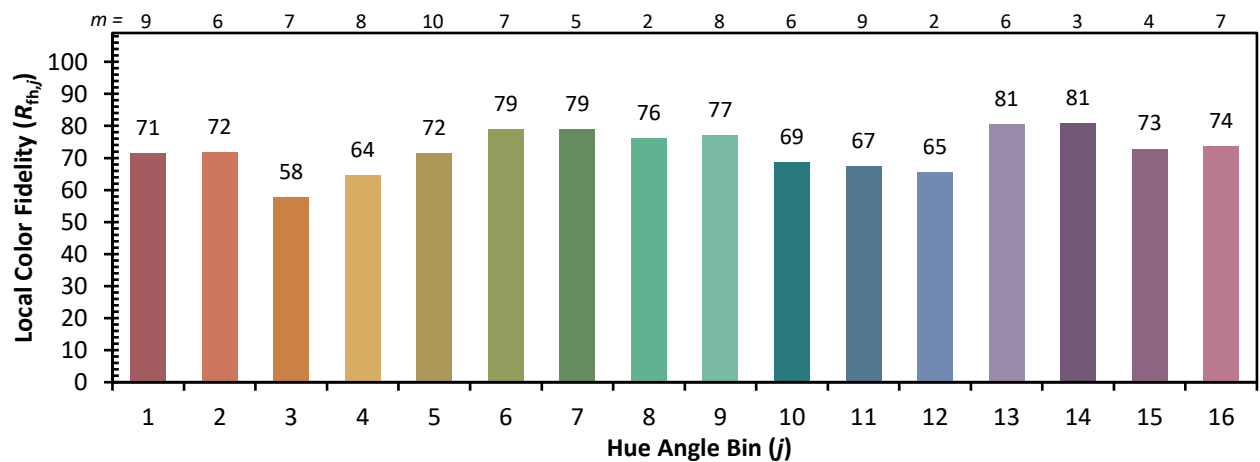
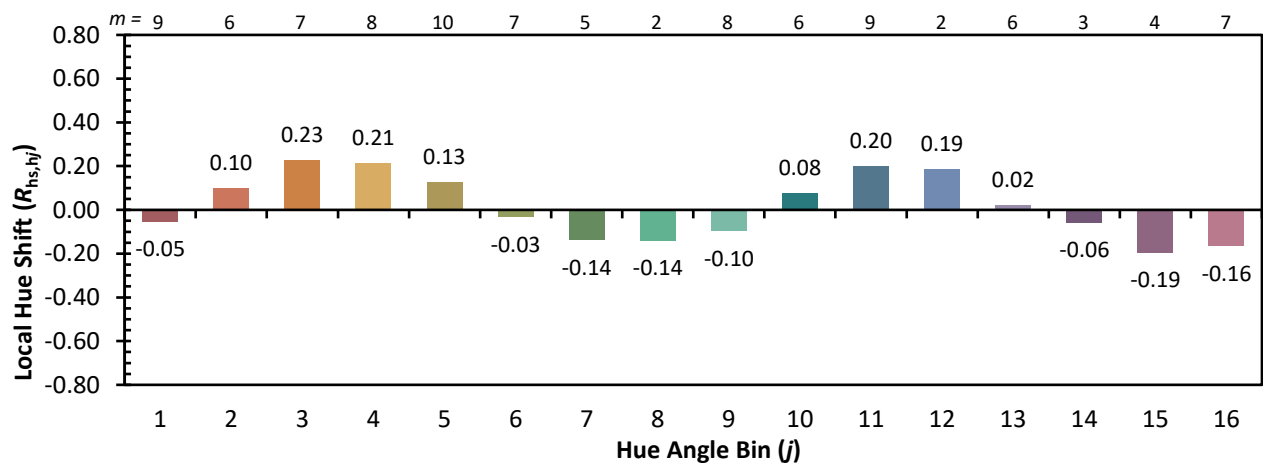
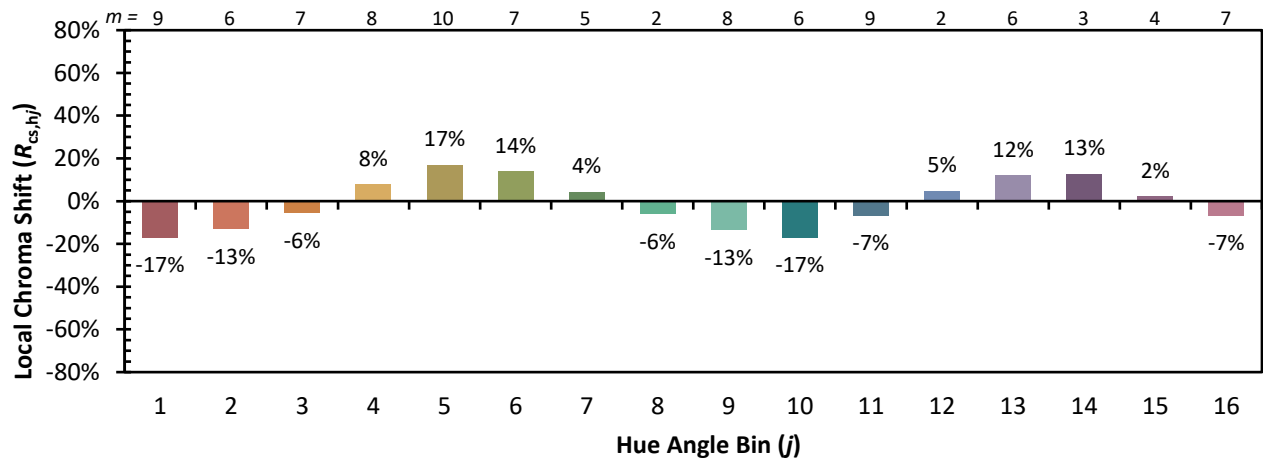


Individual Sample Fidelity Index ($R_{f,i}$)

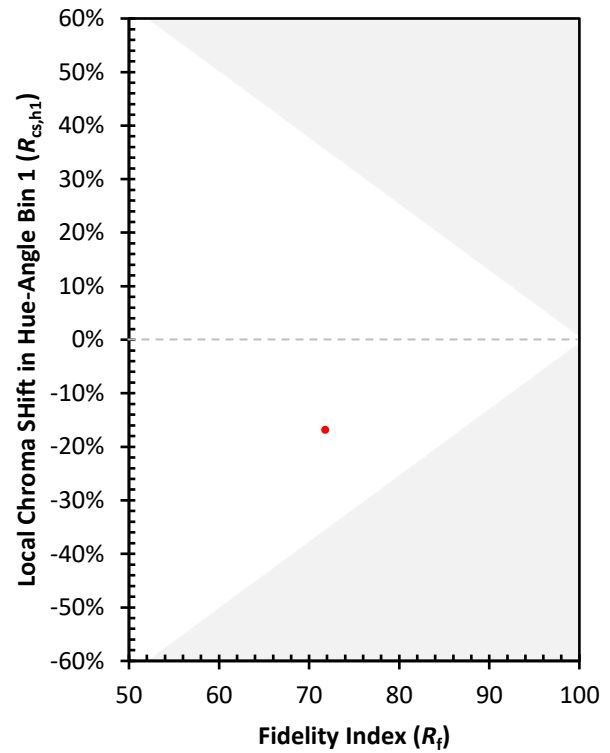
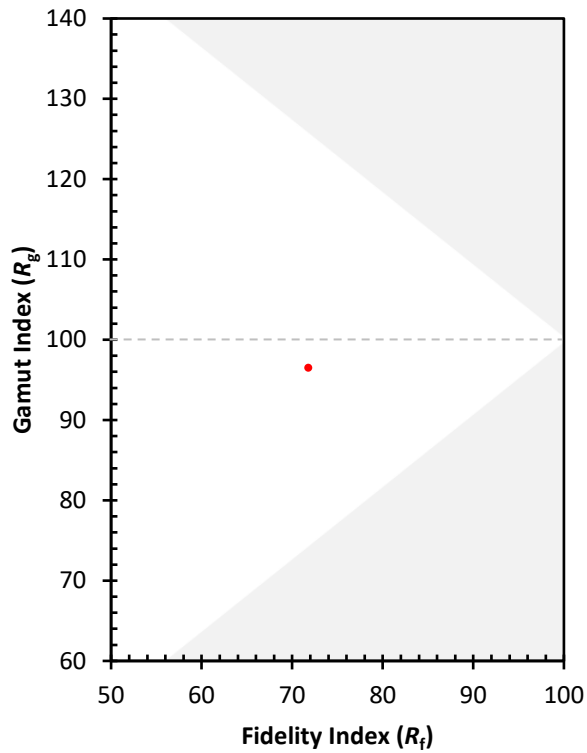
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)