

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: P1049494

Luminaire Tested: **GALN-SA9B-740-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049494
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 9xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36140.9 lumens
Efficiency: N/A
Efficacy: 115.6 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): 312.7
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

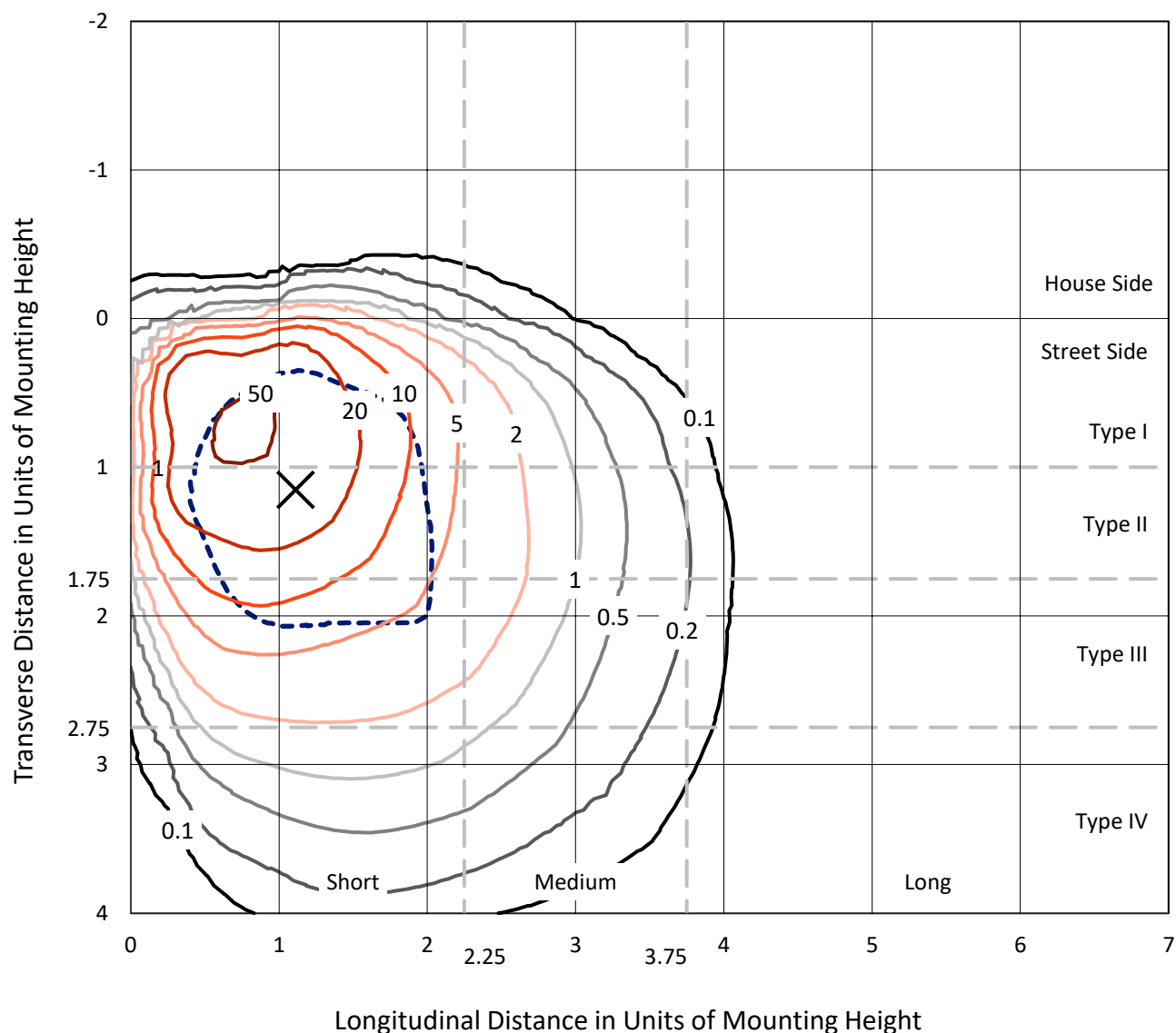
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

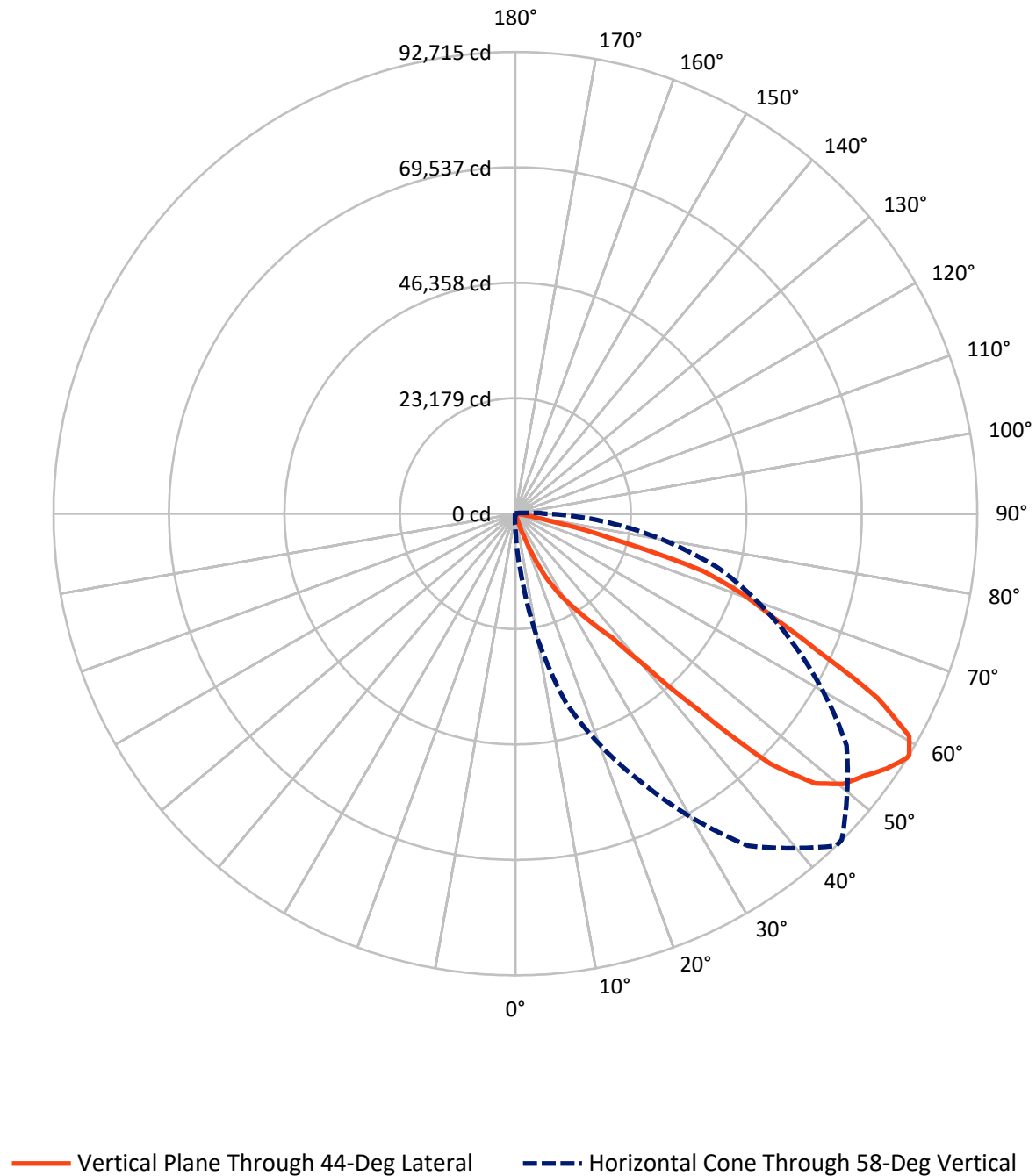
--- 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 62.9 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	246.8	0.0	246.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	35894.1	0.0	35894.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	36140.9	0.0	36140.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	0.0
10°-20°	79.3	0.2
20°-30°	856.2	2.4
30°-40°	2532.0	7.0
40°-50°	7546.8	20.9
50°-60°	11974.9	33.1
60°-70°	9988.5	27.6
70°-80°	3080.6	8.5
80°-90°	68.4	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°	36140.9	100.0
0°-180°	36140.9	100.0



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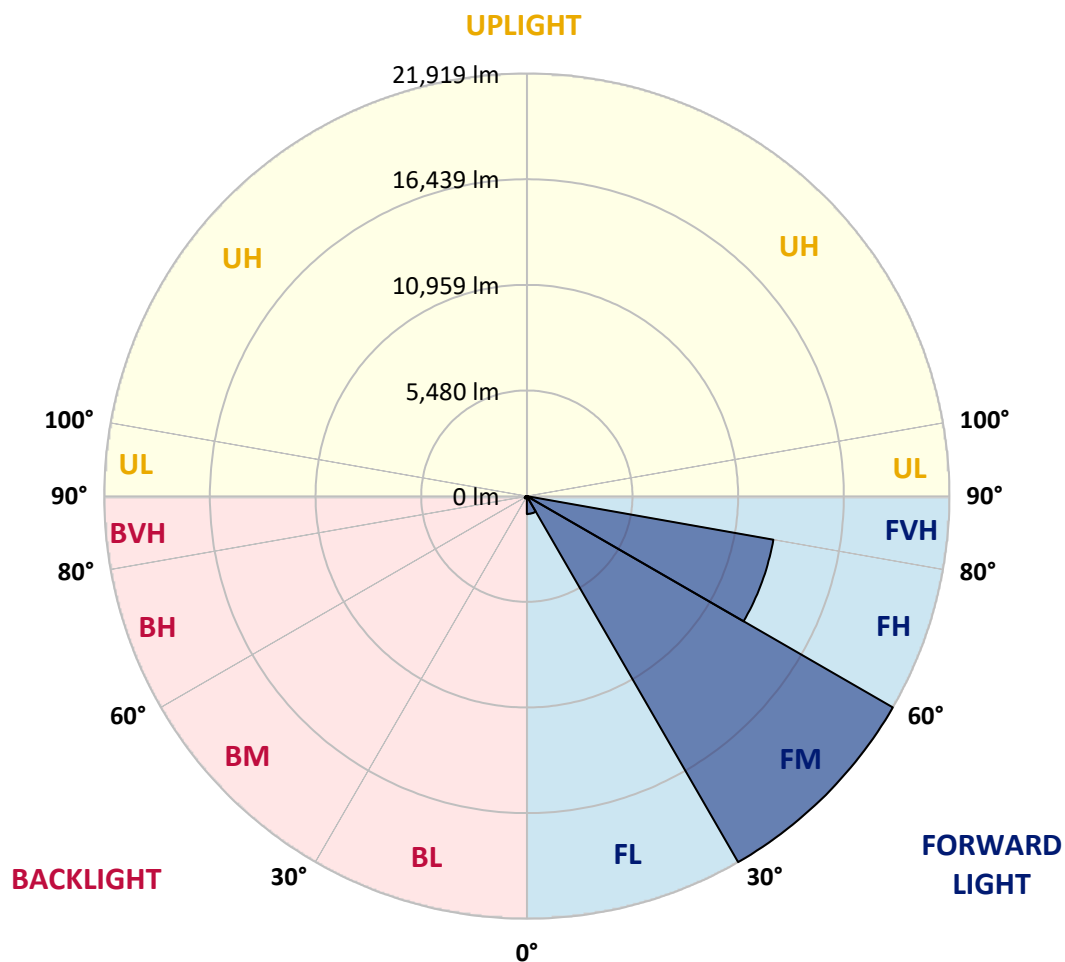
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	925.4	2.6			
FM	(30°-60°)	21918.7	60.6			
FH	(60°-80°)	12984.9	35.9			G5
FVH	(80°-90°)	65.1	0.2			G1/100
BL	(0°-30°)	24.1	0.1	B0/110		
BM	(30°-60°)	135.1	0.4	B0/220		
BH	(60°-80°)	84.3	0.2	B0/110		G0/110
BVH	(80°-90°)	3.3	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°	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3
2.5°	204.8	204.8	196.6	185.6	174.7	163.8	161.1	155.6	152.9	150.2
5°	213.0	213.0	210.2	202.0	191.1	182.9	182.9	174.7	169.3	163.8
7.5°	218.4	221.1	226.6	223.9	218.4	210.2	210.2	204.8	196.6	182.9
10°	226.6	234.8	245.7	251.2	253.9	253.9	251.2	248.4	234.8	215.7
12.5°	234.8	251.2	278.5	305.8	322.2	344.0	341.3	335.8	300.3	259.4
15°	251.2	275.7	333.1	412.3	535.1	611.6	641.6	614.3	496.9	349.5
17.5°	270.3	311.2	483.2	862.7	1414.2	1676.3	1834.7	1706.3	1130.3	663.4
20°	289.4	379.5	898.2	2236.0	3669.3	4526.6	4764.1	4392.8	2820.2	1264.1
22.5°	322.2	532.4	1821.0	4622.1	7906.5	9192.4	9435.3	8247.7	5326.5	2495.3
25°	390.4	772.6	3139.7	7532.4	11799.6	13970.1	13869.1	12312.9	8640.9	3986.0
27.5°	488.7	1124.8	4747.7	10702.1	15529.0	17442.8	17672.2	15747.4	11518.4	5861.6
30°	630.7	1558.9	6473.2	13241.2	18518.5	20588.0	20626.2	18635.9	14093.0	7507.9
32.5°	767.2	1968.4	7982.9	15695.6	21464.3	23733.1	23902.3	21453.4	16015.0	9222.4
35°	870.9	2236.0	9511.8	17852.4	24434.7	27560.7	27549.8	24642.2	18291.9	10754.0
37.5°	879.1	2503.5	10896.0	20058.3	28196.8	31696.9	32043.6	28838.4	21043.9	12648.7
40°	860.0	2803.8	12648.7	23498.3	34975.8	40345.9	40651.7	36611.1	26564.2	15892.1
42.5°	881.8	3325.3	15493.5	29851.3	46232.1	53944.8	54534.5	50286.4	36712.1	22510.0
45°	996.5	4305.4	21453.4	40479.7	62277.1	71679.7	71483.2	65364.9	48520.0	32584.2
47.5°	1376.0	6705.2	30288.1	50824.2	72531.5	80904.8	81074.1	73596.3	55410.8	40329.6
50°	2115.9	10259.9	37711.4	56292.7	76940.7	85341.3	85183.0	76542.1	58029.0	44143.6
52.5°	2752.0	12831.6	41435.3	58212.0	77505.8	87533.6	87522.7	77317.5	58435.8	44471.2
55°	2910.3	13025.5	41465.3	58315.7	78772.6	90403.0	90763.4	79225.8	58962.7	43040.6
57.5°	2847.5	11532.1	39734.4	58916.3	81027.7	92622.6	92641.7	81074.1	60300.5	42164.2
58°	2792.9	11297.3	39384.9	59257.6	81415.4	92715.4	92669.0	81158.8	61389.8	42131.5
60°	2487.2	9809.4	38022.6	60128.5	80839.3	90809.8	90375.7	79310.4	61228.8	41795.7
62.5°	1954.8	7652.6	36682.1	59121.1	74663.8	81584.7	81764.8	70216.4	55817.6	39838.1
65°	1556.2	5703.3	33886.4	51858.9	61482.7	66997.5	67669.2	57098.1	46589.8	33733.6
67.5°	1239.5	4122.5	28426.2	41287.8	48651.0	55915.9	56404.6	47938.5	36095.1	25846.2
70°	1007.4	2787.5	19621.5	30195.3	40127.5	48296.1	48326.1	39824.5	26941.0	16935.0
72.5°	892.8	1930.2	11390.1	22021.3	32537.8	39354.9	38560.4	32316.6	20705.4	10030.5
75°	772.6	1280.4	5585.9	13462.3	19728.0	19861.7	20164.8	14991.2	10349.9	4769.5
77.5°	636.1	909.1	2200.5	3677.5	5916.2	7573.4	7854.6	5951.7	3442.7	1174.0
80°	436.8	431.4	592.4	1127.5	1692.7	2121.3	1979.3	1531.6	900.9	450.5
82.5°	188.4	204.8	267.6	322.2	262.1	253.9	243.0	155.6	120.1	92.8
85°	60.1	54.6	57.3	57.3	46.4	35.5	35.5	16.4	0.0	0.0
87.5°	30.0	24.6	24.6	21.8	13.7	5.5	2.7	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°
158.3	0°	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3
147.4	2.5°	144.7	144.7	139.2	133.8	131.0	125.6	122.9	120.1	117.4	114.7
158.3	5°	152.9	150.2	142.0	133.8	125.6	117.4	111.9	106.5	101.0	98.3
174.7	7.5°	166.5	161.1	144.7	131.0	120.1	109.2	103.7	95.6	90.1	81.9
193.8	10°	182.9	172.0	150.2	133.8	117.4	103.7	95.6	87.4	79.2	68.3
221.1	12.5°	204.8	185.6	158.3	131.0	111.9	95.6	87.4	76.4	68.3	60.1
256.6	15°	223.9	199.3	161.1	131.0	106.5	87.4	76.4	65.5	57.3	46.4
322.2	17.5°	251.2	210.2	158.3	122.9	98.3	76.4	65.5	57.3	43.7	27.3
477.8	20°	297.6	218.4	152.9	114.7	84.6	62.8	49.1	38.2	19.1	5.5
718.0	22.5°	371.3	240.3	147.4	103.7	73.7	49.1	32.8	13.7	0.0	0.0
1092.1	25°	513.3	278.5	147.4	98.3	65.5	35.5	10.9	0.0	0.0	0.0
1550.7	27.5°	682.5	330.3	147.4	84.6	51.9	19.1	0.0	0.0	0.0	0.0
2113.1	30°	854.5	387.7	147.4	73.7	41.0	2.7	0.0	0.0	0.0	0.0
2601.8	32.5°	1018.3	436.8	150.2	62.8	27.3	0.0	0.0	0.0	0.0	0.0
3278.9	35°	1184.9	445.0	147.4	54.6	16.4	0.0	0.0	0.0	0.0	0.0
4108.9	37.5°	1397.8	428.6	139.2	49.1	8.2	0.0	0.0	0.0	0.0	0.0
5405.7	40°	1720.0	436.8	131.0	46.4	2.7	0.0	0.0	0.0	0.0	0.0
7718.1	42.5°	2315.2	472.3	120.1	46.4	0.0	0.0	0.0	0.0	0.0	0.0
12293.8	45°	4002.4	633.4	109.2	49.1	0.0	0.0	0.0	0.0	0.0	0.0
18455.7	47.5°	6620.6	1138.5	106.5	49.1	0.0	0.0	0.0	0.0	0.0	0.0
22231.5	50°	8449.8	1433.3	111.9	51.9	0.0	0.0	0.0	0.0	0.0	0.0
22703.8	52.5°	8436.1	1597.1	117.4	54.6	10.9	0.0	0.0	0.0	0.0	0.0
20926.5	55°	7499.7	1627.2	125.6	60.1	35.5	0.0	0.0	0.0	0.0	0.0
17983.4	57.5°	6268.4	1485.2	144.7	73.7	65.5	0.0	0.0	0.0	0.0	0.0
17522.0	58°	6050.0	1419.7	150.2	76.4	71.0	0.0	0.0	0.0	0.0	0.0
15198.7	60°	4957.9	1157.6	191.1	95.6	95.6	0.0	0.0	0.0	0.0	0.0
12460.3	62.5°	3423.6	1010.2	218.4	122.9	98.3	0.0	0.0	0.0	0.0	0.0
9186.9	65°	2421.6	911.9	237.5	131.0	79.2	0.0	0.0	0.0	0.0	0.0
6527.8	67.5°	1810.1	840.9	262.1	133.8	41.0	0.0	0.0	0.0	0.0	0.0
4095.2	70°	1386.9	789.0	322.2	142.0	10.9	0.0	0.0	0.0	0.0	0.0
2440.7	72.5°	1130.3	728.9	390.4	147.4	0.0	0.0	0.0	0.0	0.0	0.0
1463.4	75°	936.4	658.0	376.8	161.1	0.0	0.0	0.0	0.0	0.0	0.0
780.8	77.5°	622.5	510.5	344.0	161.1	0.0	0.0	0.0	0.0	0.0	0.0
278.5	80°	218.4	202.0	267.6	142.0	0.0	0.0	0.0	0.0	0.0	0.0
57.3	82.5°	32.8	27.3	38.2	49.1	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°
158.3	0°	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3
111.9	2.5°	111.9	111.9	109.2	111.9	111.9	117.4	131.0	150.2	172.0	180.2
95.6	5°	92.8	90.1	87.4	87.4	87.4	95.6	106.5	128.3	152.9	163.8
79.2	7.5°	76.4	73.7	71.0	68.3	68.3	73.7	87.4	111.9	136.5	147.4
65.5	10°	62.8	57.3	54.6	51.9	51.9	57.3	71.0	95.6	122.9	133.8
54.6	12.5°	51.9	43.7	38.2	35.5	32.8	41.0	54.6	76.4	106.5	120.1
41.0	15°	35.5	27.3	19.1	16.4	13.7	21.8	35.5	60.1	90.1	106.5
21.8	17.5°	19.1	8.2	2.7	0.0	0.0	5.5	16.4	43.7	73.7	87.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	54.6	68.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	32.8	46.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	24.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
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	8.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	21.8
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°
158.3	0°	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3
188.4	2.5°	193.8	191.1	185.6	180.2	180.2	180.2	188.4	196.6	204.8	204.8
169.3	5°	180.2	180.2	177.5	172.0	172.0	174.7	185.6	199.3	210.2	213.0
155.6	7.5°	166.5	172.0	166.5	163.8	166.5	169.3	180.2	196.6	213.0	218.4
144.7	10°	158.3	161.1	161.1	158.3	158.3	163.8	174.7	196.6	218.4	226.6
131.0	12.5°	147.4	152.9	150.2	150.2	150.2	155.6	169.3	193.8	223.9	234.8
117.4	15°	136.5	144.7	144.7	142.0	142.0	144.7	163.8	191.1	232.1	251.2
101.0	17.5°	125.6	133.8	136.5	131.0	131.0	136.5	155.6	191.1	237.5	270.3
81.9	20°	103.7	117.4	125.6	117.4	117.4	122.9	142.0	180.2	240.3	289.4
60.1	22.5°	81.9	95.6	106.5	103.7	103.7	106.5	131.0	172.0	243.0	322.2
35.5	25°	60.1	73.7	81.9	87.4	87.4	95.6	120.1	166.5	253.9	390.4
16.4	27.5°	35.5	51.9	62.8	68.3	71.0	81.9	111.9	161.1	273.0	488.7
0.0	30°	16.4	30.0	43.7	54.6	54.6	73.7	103.7	155.6	297.6	630.7
0.0	32.5°	0.0	13.7	21.8	38.2	41.0	60.1	95.6	150.2	333.1	767.2
0.0	35°	0.0	0.0	10.9	30.0	30.0	49.1	87.4	144.7	387.7	870.9
0.0	37.5°	0.0	0.0	0.0	21.8	24.6	43.7	84.6	142.0	398.6	879.1
0.0	40°	0.0	0.0	0.0	16.4	19.1	41.0	84.6	144.7	360.4	860.0
0.0	42.5°	0.0	0.0	0.0	10.9	13.7	41.0	84.6	150.2	324.9	881.8
0.0	45°	0.0	0.0	0.0	8.2	10.9	43.7	81.9	147.4	305.8	996.5
0.0	47.5°	0.0	0.0	0.0	10.9	16.4	43.7	79.2	144.7	308.5	1376.0
0.0	50°	0.0	0.0	0.0	13.7	19.1	43.7	81.9	139.2	338.5	2115.9
0.0	52.5°	0.0	0.0	0.0	10.9	16.4	49.1	90.1	136.5	368.6	2752.0
0.0	55°	0.0	0.0	0.0	2.7	8.2	62.8	98.3	136.5	415.0	2910.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	71.0	111.9	144.7	491.4	2847.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	71.0	114.7	144.7	496.9	2792.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	71.0	125.6	161.1	535.1	2487.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	60.1	150.2	202.0	556.9	1954.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	49.1	177.5	221.1	573.3	1556.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	46.4	182.9	223.9	581.5	1239.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	49.1	180.2	240.3	608.8	1007.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	54.6	163.8	264.8	608.8	892.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	57.3	152.9	297.6	554.2	772.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	54.6	150.2	346.7	494.2	636.1
0.0	80°	5.5	8.2	8.2	5.5	5.5	46.4	147.4	352.2	420.4	436.8
2.7	82.5°	16.4	21.8	19.1	13.7	13.7	41.0	131.0	294.9	218.4	188.4
16.4	85°	30.0	35.5	35.5	30.0	30.0	38.2	81.9	106.5	73.7	60.1
30.0	87.5°	41.0	46.4	46.4	41.0	41.0	38.2	35.5	32.8	30.0	30.0
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

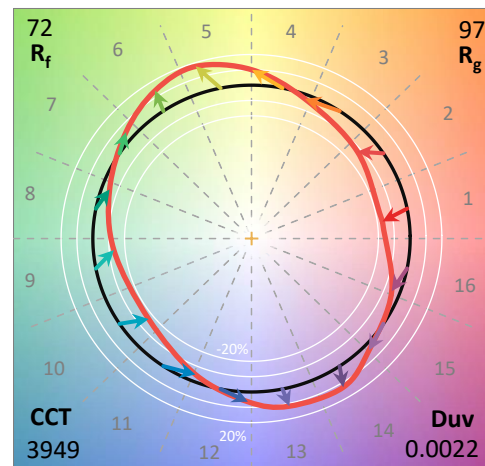
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

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

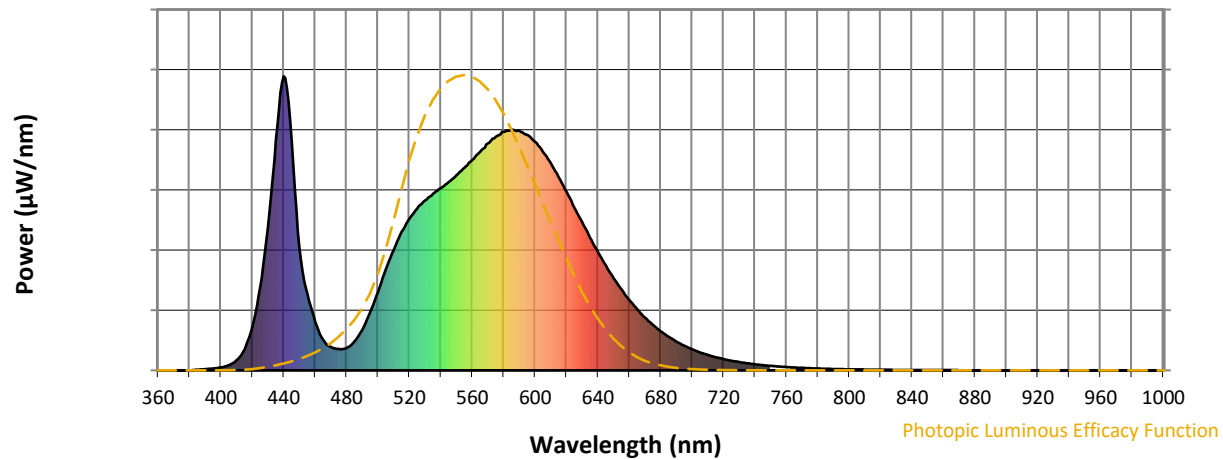
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

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

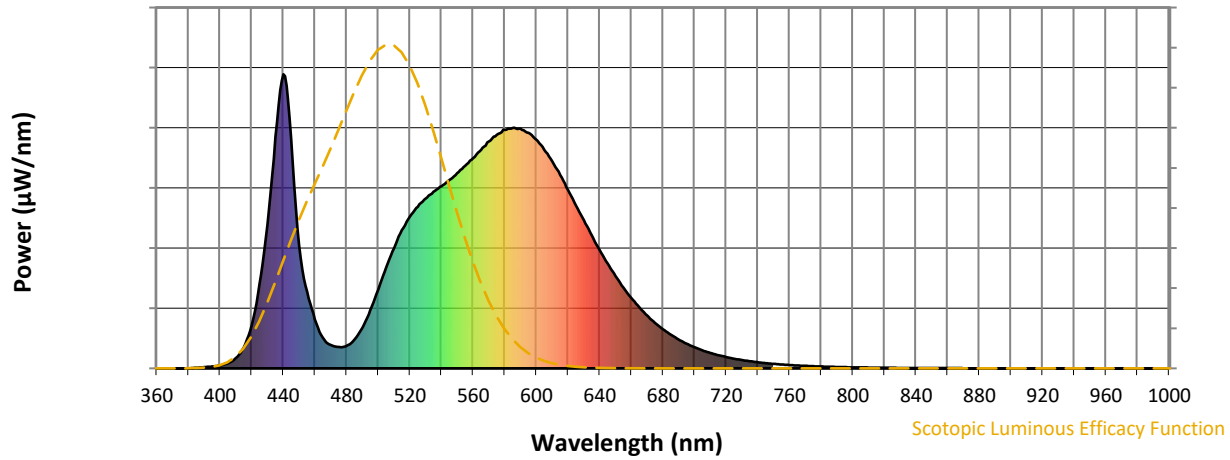


Photopic Lumens: NR

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



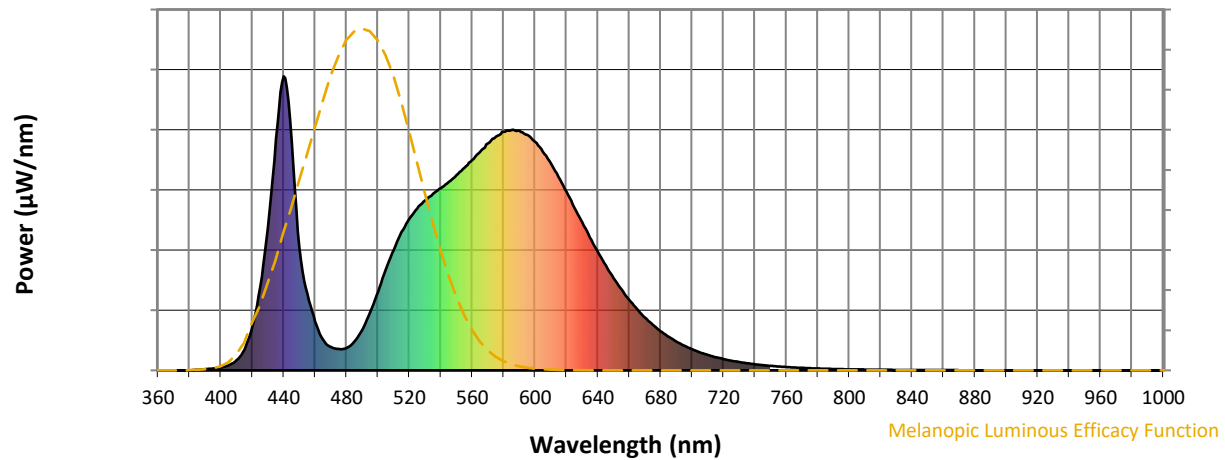
Scotopic Lumens: NR

S/P: 1.47

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

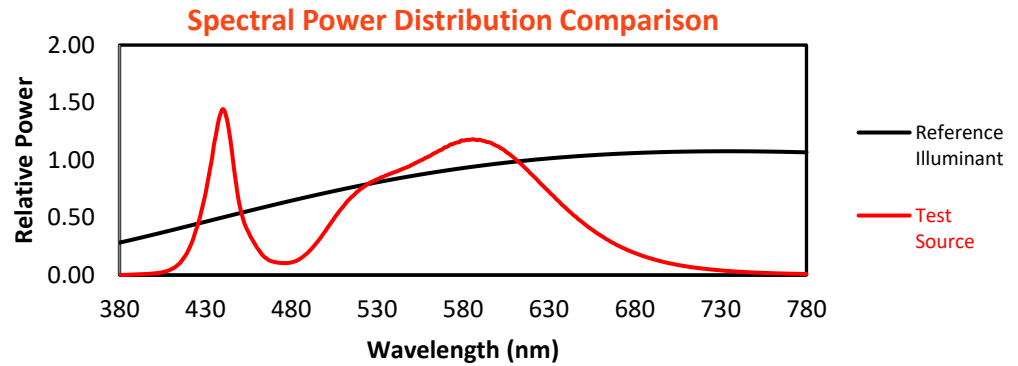
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	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

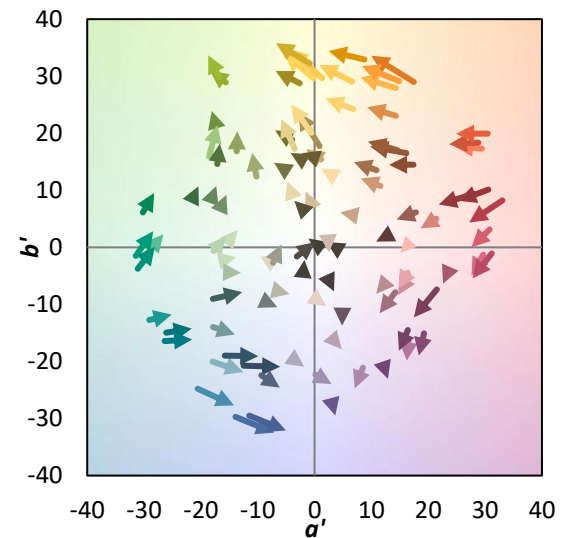
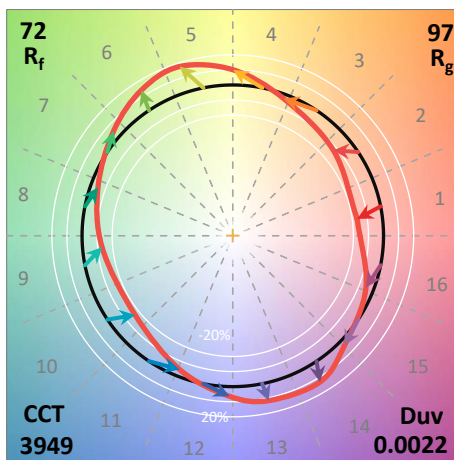
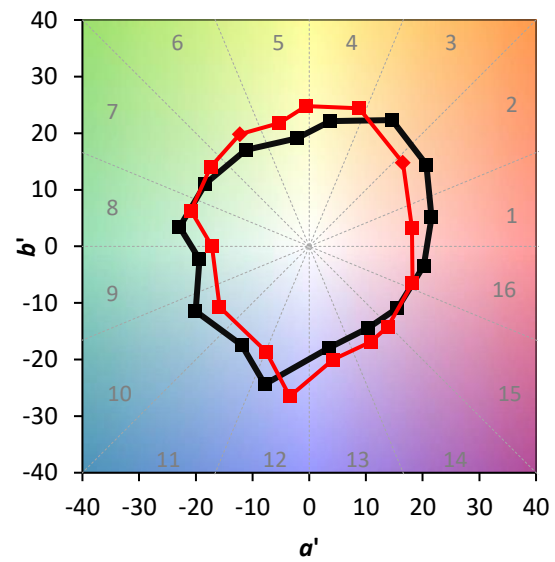
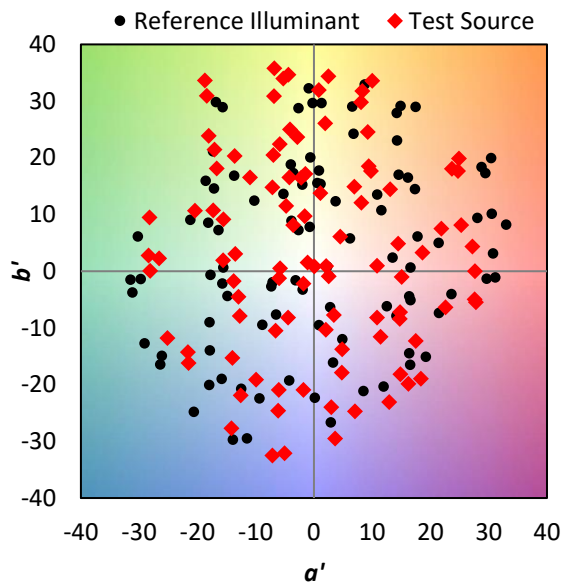
TM-30-18

Summary

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

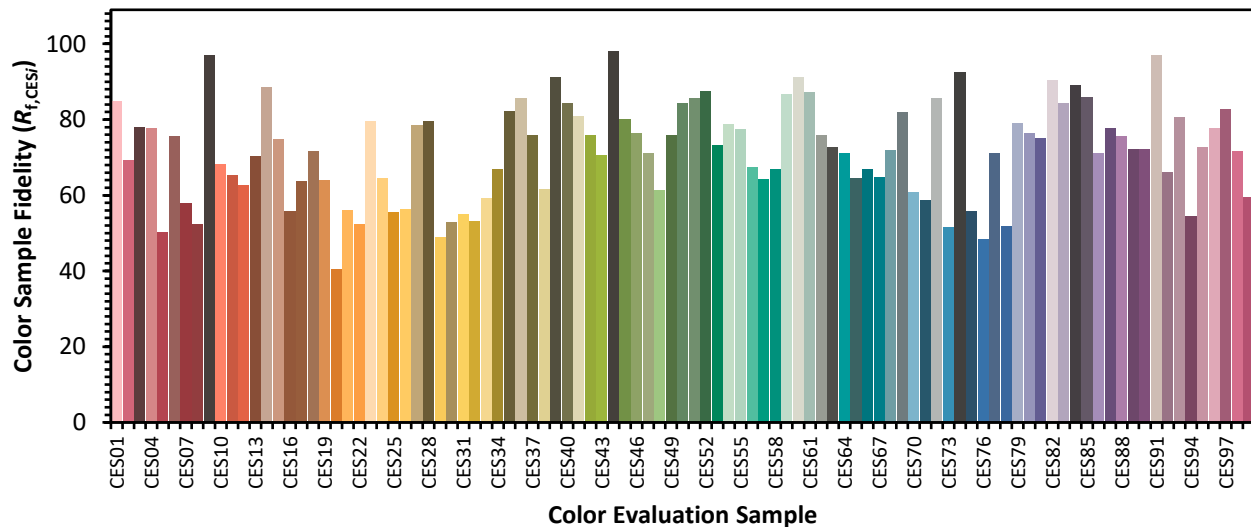


Color Vector Graphics

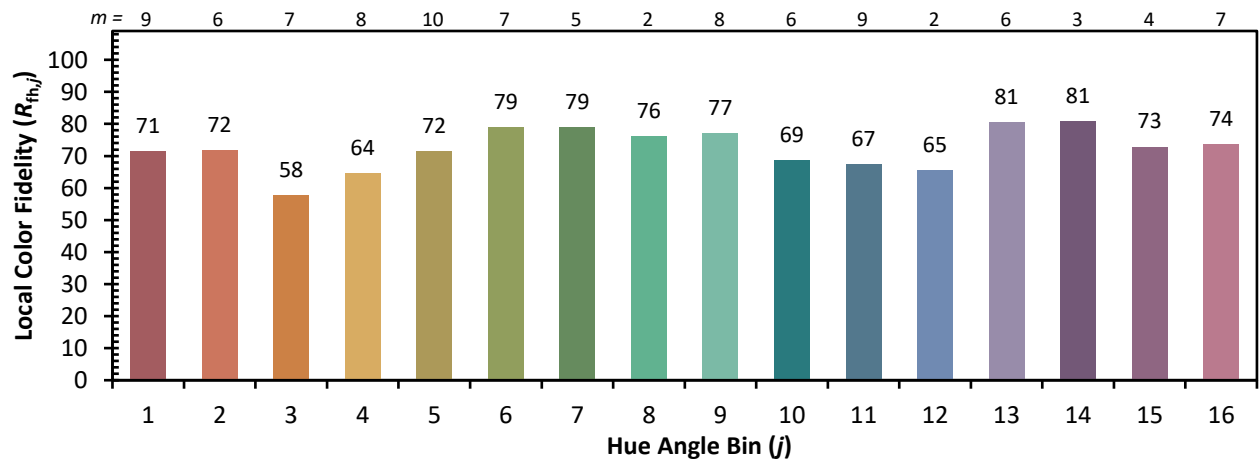
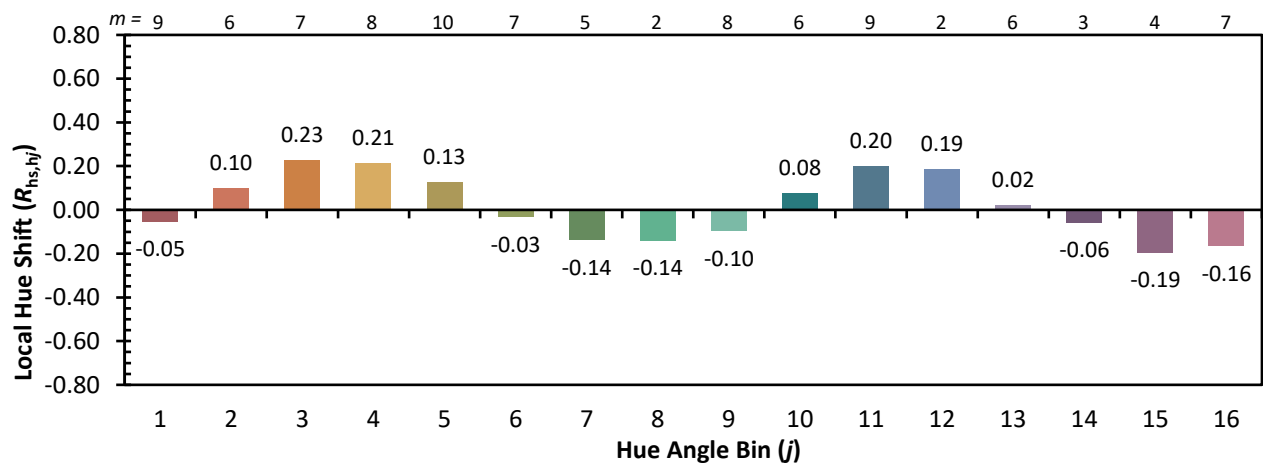
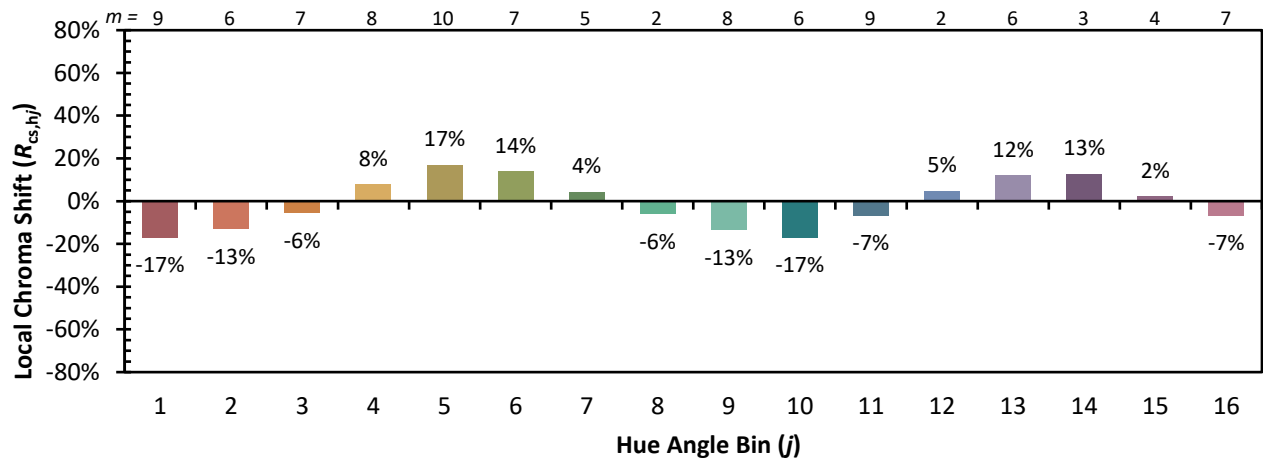


Individual Sample Fidelity Index ($R_{f,i}$)

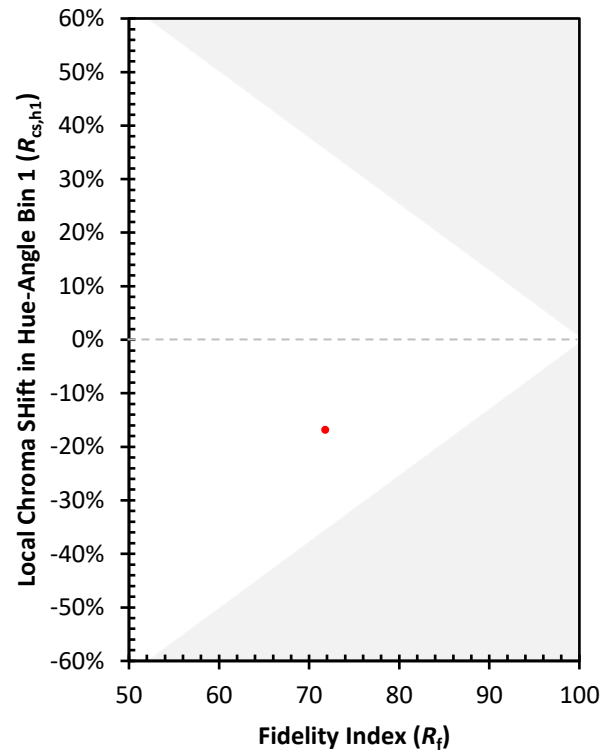
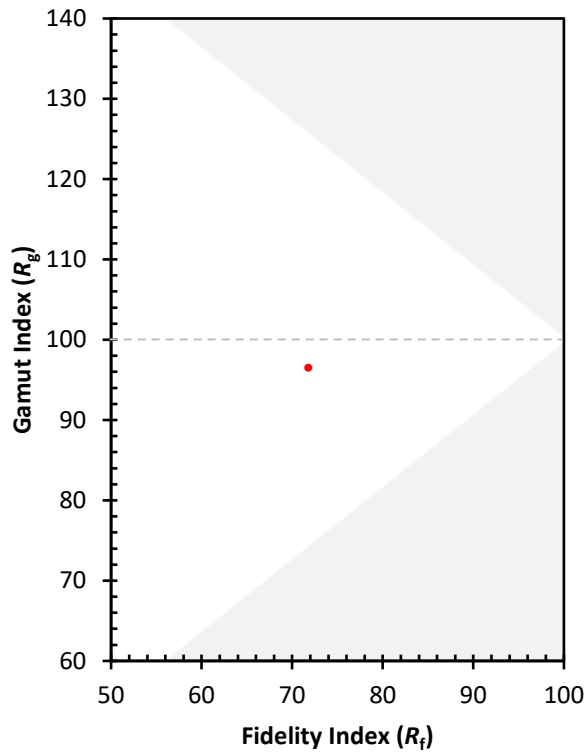
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 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)