

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: P1049533

Luminaire Tested: **GALN-SA1A-727-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049533
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 1xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3023.4 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

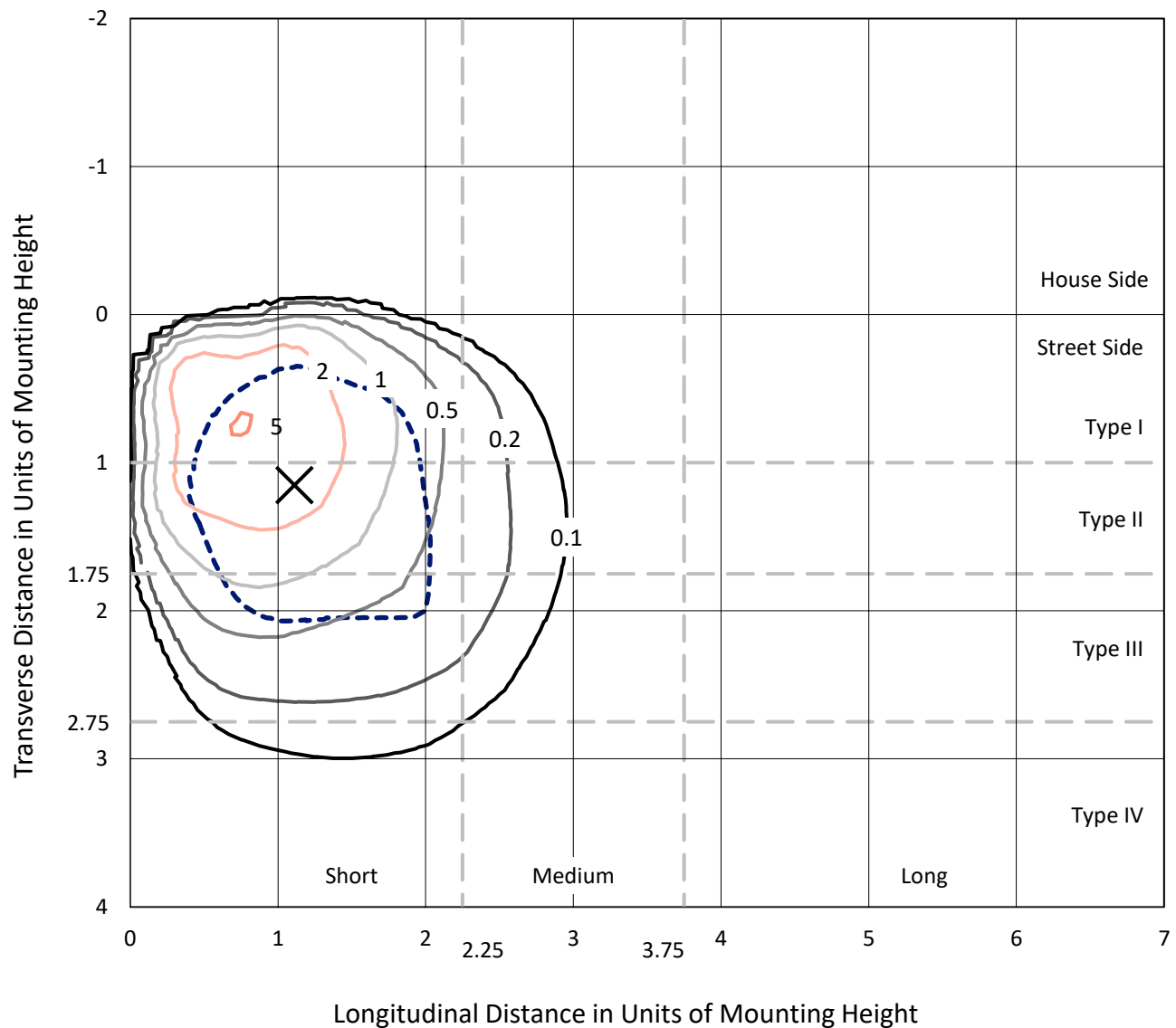
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1049533

CATALOG NUMBER: GALN-SA1A-727-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

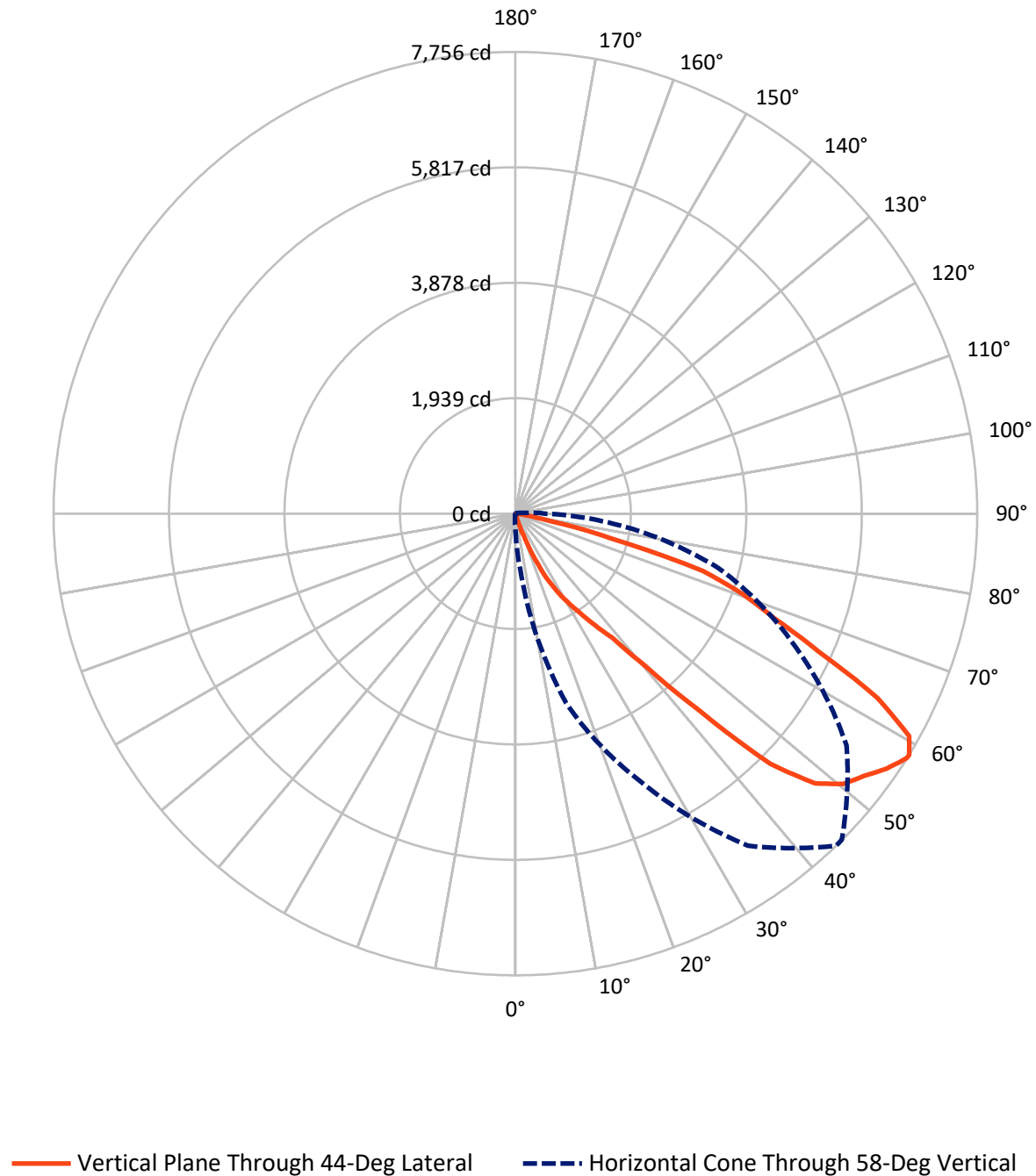
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

REPORT NUMBER: P1049533
CATALOG NUMBER: GALN-SA1A-727-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049533

CATALOG NUMBER: GALN-SA1A-727-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20.6	0.0	20.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	3002.8	0.0	3002.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	3023.4	0.0	3023.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.0
10°-20°	6.6	0.2
20°-30°	71.6	2.4
30°-40°	211.8	7.0
40°-50°	631.3	20.9
50°-60°	1001.8	33.1
60°-70°	835.6	27.6
70°-80°	257.7	8.5
80°-90°	5.7	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°	3023.4	100.0
0°-180°	3023.4	100.0



REPORT NUMBER: P1049533

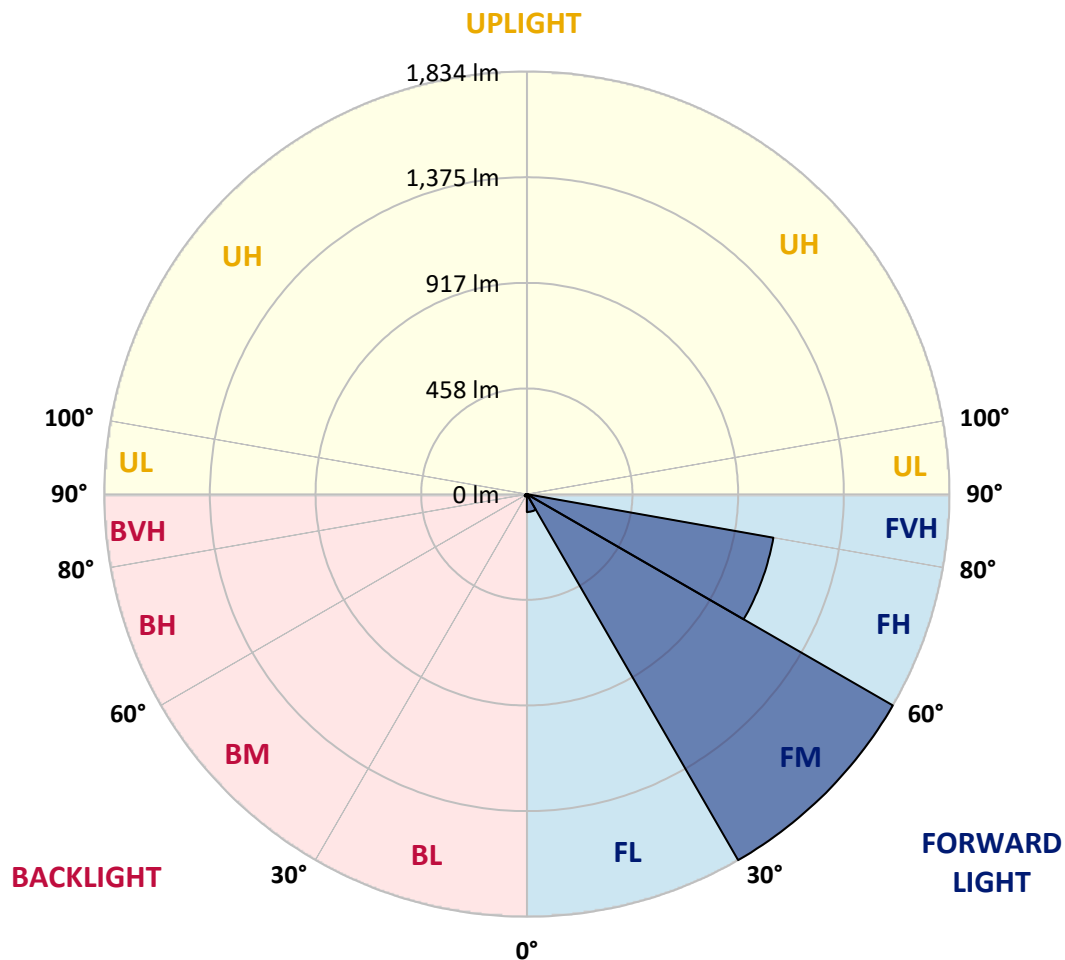
CATALOG NUMBER: GALN-SA1A-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	77.4	2.6			
FM	(30°-60°)	1833.6	60.6			
FH	(60°-80°)	1086.3	35.9			G1/1800
FVH	(80°-90°)	5.4	0.2			G0/10
BL	(0°-30°)	2.0	0.1	B0/110		
BM	(30°-60°)	11.3	0.4	B0/220		
BH	(60°-80°)	7.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type III Short



REPORT NUMBER: P1049533

CATALOG NUMBER: GALN-SA1A-727-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
2.5°	17.1	17.1	16.4	15.5	14.6	13.7	13.5	13.0	12.8	12.6	12.3
5°	17.8	17.8	17.6	16.9	16.0	15.3	15.3	14.6	14.2	13.7	13.2
7.5°	18.3	18.5	19.0	18.7	18.3	17.6	17.6	17.1	16.4	15.3	14.6
10°	19.0	19.6	20.6	21.0	21.2	21.2	21.0	20.8	19.6	18.0	16.2
12.5°	19.6	21.0	23.3	25.6	27.0	28.8	28.5	28.1	25.1	21.7	18.5
15°	21.0	23.1	27.9	34.5	44.8	51.2	53.7	51.4	41.6	29.2	21.5
17.5°	22.6	26.0	40.4	72.2	118.3	140.2	153.5	142.7	94.6	55.5	27.0
20°	24.2	31.7	75.1	187.1	307.0	378.7	398.5	367.5	235.9	105.7	40.0
22.5°	27.0	44.5	152.3	386.7	661.4	769.0	789.3	690.0	445.6	208.8	60.1
25°	32.7	64.6	262.7	630.1	987.1	1168.7	1160.2	1030.1	722.9	333.5	91.4
27.5°	40.9	94.1	397.2	895.3	1299.1	1459.2	1478.4	1317.4	963.6	490.4	129.7
30°	52.8	130.4	541.5	1107.7	1549.2	1722.3	1725.5	1559.0	1179.0	628.1	176.8
32.5°	64.2	164.7	667.8	1313.0	1795.6	1985.4	1999.6	1794.7	1339.8	771.5	217.7
35°	72.9	187.1	795.7	1493.5	2044.1	2305.6	2304.7	2061.5	1530.2	899.6	274.3
37.5°	73.5	209.4	911.5	1678.0	2358.8	2651.6	2680.7	2412.5	1760.5	1058.1	343.7
40°	71.9	234.6	1058.1	1965.8	2925.9	3375.2	3400.8	3062.8	2222.3	1329.5	452.2
42.5°	73.8	278.2	1296.1	2497.3	3867.6	4512.8	4562.2	4206.8	3071.2	1883.1	645.7
45°	83.4	360.2	1794.7	3386.4	5209.9	5996.5	5980.0	5468.2	4059.0	2725.9	1028.5
47.5°	115.1	560.9	2533.8	4251.8	6067.7	6768.2	6782.4	6156.8	4635.5	3373.8	1543.9
50°	177.0	858.3	3154.8	4709.2	6436.6	7139.3	7126.1	6403.2	4854.5	3692.9	1859.8
52.5°	230.2	1073.4	3466.3	4869.8	6483.9	7322.7	7321.8	6468.1	4888.5	3720.3	1899.3
55°	243.5	1089.7	3468.8	4878.5	6589.8	7562.8	7592.9	6627.7	4932.6	3600.6	1750.6
57.5°	238.2	964.7	3324.0	4928.7	6778.5	7748.5	7750.1	6782.4	5044.5	3527.3	1504.4
58°	233.6	945.1	3294.8	4957.3	6810.9	7756.2	7752.3	6789.4	5135.6	3524.6	1465.8
60°	208.1	820.6	3180.8	5030.1	6762.7	7596.8	7560.5	6634.8	5122.2	3496.5	1271.5
62.5°	163.5	640.2	3068.7	4945.9	6246.1	6825.1	6840.1	5874.0	4669.5	3332.7	1042.4
65°	130.2	477.1	2834.8	4338.3	5143.4	5604.8	5661.0	4776.6	3897.5	2822.0	768.5
67.5°	103.7	344.9	2378.0	3454.0	4070.0	4677.7	4718.6	4010.4	3019.6	2162.2	546.1
70°	84.3	233.2	1641.5	2526.0	3356.9	4040.3	4042.8	3331.6	2253.8	1416.7	342.6
72.5°	74.7	161.5	952.9	1842.2	2722.0	3292.3	3225.8	2703.5	1732.1	839.1	204.2
75°	64.6	107.1	467.3	1126.2	1650.4	1661.6	1686.9	1254.1	865.8	399.0	122.4
77.5°	53.2	76.1	184.1	307.6	494.9	633.6	657.1	497.9	288.0	98.2	65.3
80°	36.5	36.1	49.6	94.3	141.6	177.5	165.6	128.1	75.4	37.7	23.3
82.5°	15.8	17.1	22.4	27.0	21.9	21.2	20.3	13.0	10.0	7.8	4.8
85°	5.0	4.6	4.8	4.8	3.9	3.0	3.0	1.4	0.0	0.0	0.0
87.5°	2.5	2.1	2.1	1.8	1.1	0.5	0.2	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	0.0



REPORT NUMBER: P1049533

CATALOG NUMBER: GALN-SA1A-727-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
2.5°	12.1	12.1	11.6	11.2	11.0	10.5	10.3	10.0	9.8	9.6	9.4
5°	12.8	12.6	11.9	11.2	10.5	9.8	9.4	8.9	8.5	8.2	8.0
7.5°	13.9	13.5	12.1	11.0	10.0	9.1	8.7	8.0	7.5	6.9	6.6
10°	15.3	14.4	12.6	11.2	9.8	8.7	8.0	7.3	6.6	5.7	5.5
12.5°	17.1	15.5	13.2	11.0	9.4	8.0	7.3	6.4	5.7	5.0	4.6
15°	18.7	16.7	13.5	11.0	8.9	7.3	6.4	5.5	4.8	3.9	3.4
17.5°	21.0	17.6	13.2	10.3	8.2	6.4	5.5	4.8	3.7	2.3	1.8
20°	24.9	18.3	12.8	9.6	7.1	5.3	4.1	3.2	1.6	0.5	0.0
22.5°	31.1	20.1	12.3	8.7	6.2	4.1	2.7	1.1	0.0	0.0	0.0
25°	42.9	23.3	12.3	8.2	5.5	3.0	0.9	0.0	0.0	0.0	0.0
27.5°	57.1	27.6	12.3	7.1	4.3	1.6	0.0	0.0	0.0	0.0	0.0
30°	71.5	32.4	12.3	6.2	3.4	0.2	0.0	0.0	0.0	0.0	0.0
32.5°	85.2	36.5	12.6	5.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	99.1	37.2	12.3	4.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	116.9	35.9	11.6	4.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	143.9	36.5	11.0	3.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	193.7	39.5	10.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	334.8	53.0	9.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	553.9	95.2	8.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	706.9	119.9	9.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	705.7	133.6	9.8	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
55°	627.4	136.1	10.5	5.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	524.4	124.2	12.1	6.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0
58°	506.1	118.8	12.6	6.4	5.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	414.8	96.8	16.0	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	286.4	84.5	18.3	10.3	8.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	202.6	76.3	19.9	11.0	6.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	151.4	70.3	21.9	11.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	116.0	66.0	27.0	11.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	94.6	61.0	32.7	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	78.3	55.0	31.5	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	52.1	42.7	28.8	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.3	16.9	22.4	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.7	2.3	3.2	4.1	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	0.0

REPORT NUMBER: P1049533

CATALOG NUMBER: GALN-SA1A-727-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
2.5°	9.4	9.4	9.1	9.4	9.4	9.8	11.0	12.6	14.4	15.1	15.8
5°	7.8	7.5	7.3	7.3	7.3	8.0	8.9	10.7	12.8	13.7	14.2
7.5°	6.4	6.2	5.9	5.7	5.7	6.2	7.3	9.4	11.4	12.3	13.0
10°	5.3	4.8	4.6	4.3	4.3	4.8	5.9	8.0	10.3	11.2	12.1
12.5°	4.3	3.7	3.2	3.0	2.7	3.4	4.6	6.4	8.9	10.0	11.0
15°	3.0	2.3	1.6	1.4	1.1	1.8	3.0	5.0	7.5	8.9	9.8
17.5°	1.6	0.7	0.2	0.0	0.0	0.5	1.4	3.7	6.2	7.3	8.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.6	5.7	6.9
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.7	3.9	5.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	3.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.4
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	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1049533

CATALOG NUMBER: GALN-SA1A-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
2.5°	16.2	16.0	15.5	15.1	15.1	15.1	15.8	16.4	17.1	17.1
5°	15.1	15.1	14.8	14.4	14.4	14.6	15.5	16.7	17.6	17.8
7.5°	13.9	14.4	13.9	13.7	13.9	14.2	15.1	16.4	17.8	18.3
10°	13.2	13.5	13.5	13.2	13.2	13.7	14.6	16.4	18.3	19.0
12.5°	12.3	12.8	12.6	12.6	12.6	13.0	14.2	16.2	18.7	19.6
15°	11.4	12.1	12.1	11.9	11.9	12.1	13.7	16.0	19.4	21.0
17.5°	10.5	11.2	11.4	11.0	11.0	11.4	13.0	16.0	19.9	22.6
20°	8.7	9.8	10.5	9.8	9.8	10.3	11.9	15.1	20.1	24.2
22.5°	6.9	8.0	8.9	8.7	8.7	8.9	11.0	14.4	20.3	27.0
25°	5.0	6.2	6.9	7.3	7.3	8.0	10.0	13.9	21.2	32.7
27.5°	3.0	4.3	5.3	5.7	5.9	6.9	9.4	13.5	22.8	40.9
30°	1.4	2.5	3.7	4.6	4.6	6.2	8.7	13.0	24.9	52.8
32.5°	0.0	1.1	1.8	3.2	3.4	5.0	8.0	12.6	27.9	64.2
35°	0.0	0.0	0.9	2.5	2.5	4.1	7.3	12.1	32.4	72.9
37.5°	0.0	0.0	0.0	1.8	2.1	3.7	7.1	11.9	33.3	73.5
40°	0.0	0.0	0.0	1.4	1.6	3.4	7.1	12.1	30.1	71.9
42.5°	0.0	0.0	0.0	0.9	1.1	3.4	7.1	12.6	27.2	73.8
45°	0.0	0.0	0.0	0.7	0.9	3.7	6.9	12.3	25.6	83.4
47.5°	0.0	0.0	0.0	0.9	1.4	3.7	6.6	12.1	25.8	115.1
50°	0.0	0.0	0.0	1.1	1.6	3.7	6.9	11.6	28.3	177.0
52.5°	0.0	0.0	0.0	0.9	1.4	4.1	7.5	11.4	30.8	230.2
55°	0.0	0.0	0.0	0.2	0.7	5.3	8.2	11.4	34.7	243.5
57.5°	0.0	0.0	0.0	0.0	0.0	5.9	9.4	12.1	41.1	238.2
58°	0.0	0.0	0.0	0.0	0.0	5.9	9.6	12.1	41.6	233.6
60°	0.0	0.0	0.0	0.0	0.0	5.9	10.5	13.5	44.8	208.1
62.5°	0.0	0.0	0.0	0.0	0.0	5.0	12.6	16.9	46.6	163.5
65°	0.0	0.0	0.0	0.0	0.0	4.1	14.8	18.5	48.0	130.2
67.5°	0.0	0.0	0.0	0.0	0.0	3.9	15.3	18.7	48.6	103.7
70°	0.0	0.0	0.0	0.0	0.0	4.1	15.1	20.1	50.9	84.3
72.5°	0.0	0.0	0.0	0.0	0.0	4.6	13.7	22.2	50.9	74.7
75°	0.0	0.0	0.0	0.0	0.0	4.8	12.8	24.9	46.4	64.6
77.5°	0.0	0.0	0.0	0.0	0.0	4.6	12.6	29.0	41.3	53.2
80°	0.5	0.7	0.7	0.5	0.5	3.9	12.3	29.5	35.2	36.5
82.5°	1.4	1.8	1.6	1.1	1.1	3.4	11.0	24.7	18.3	15.8
85°	2.5	3.0	3.0	2.5	2.5	3.2	6.9	8.9	6.2	5.0
87.5°	3.4	3.9	3.9	3.4	3.4	3.2	3.0	2.7	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

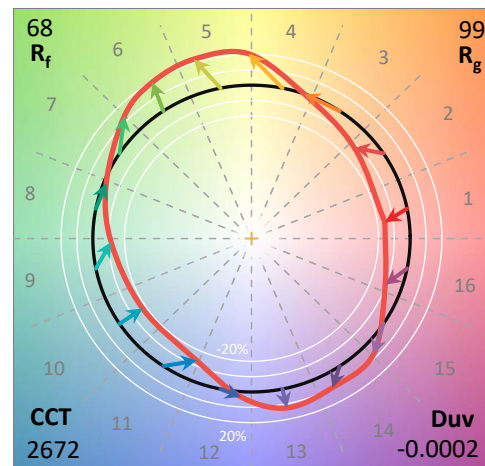
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

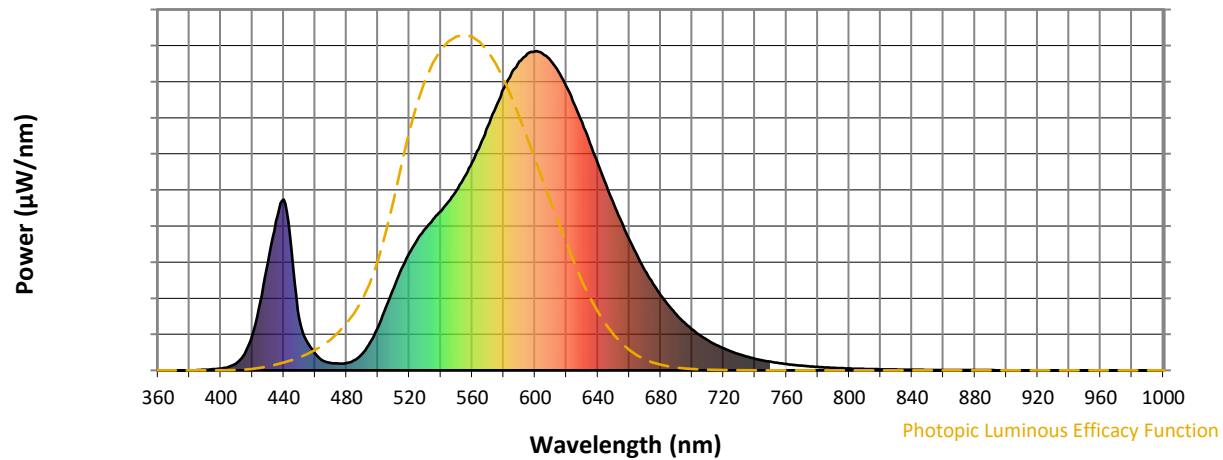
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

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: SP1-2407-184-3

Photopic Flux vs. Wavelength

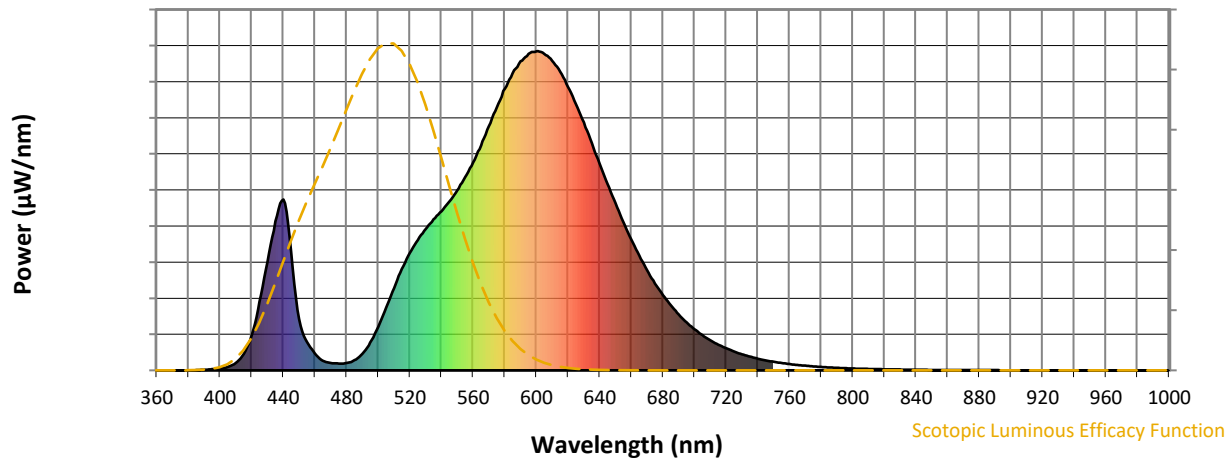


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



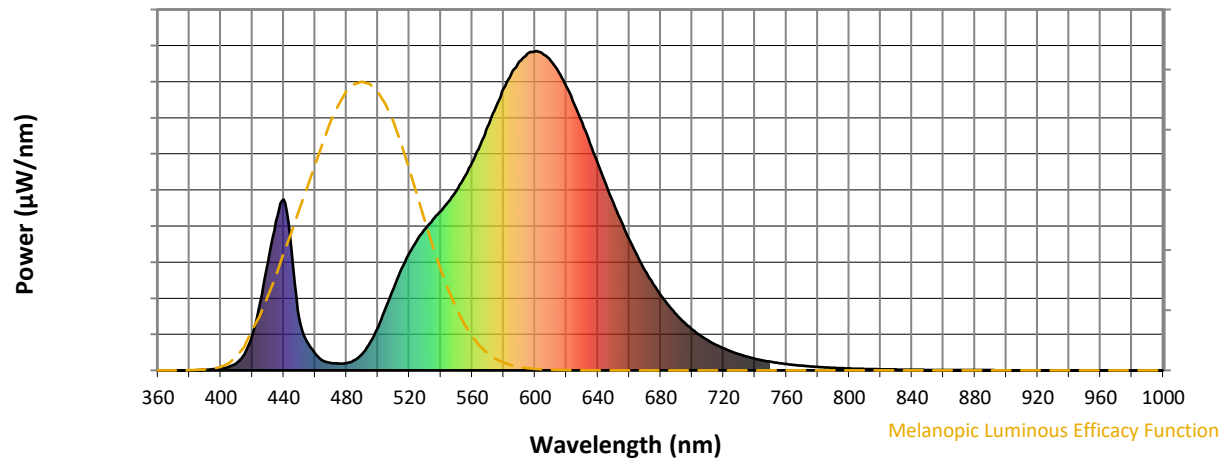
Scotopic Lumens: NR

S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

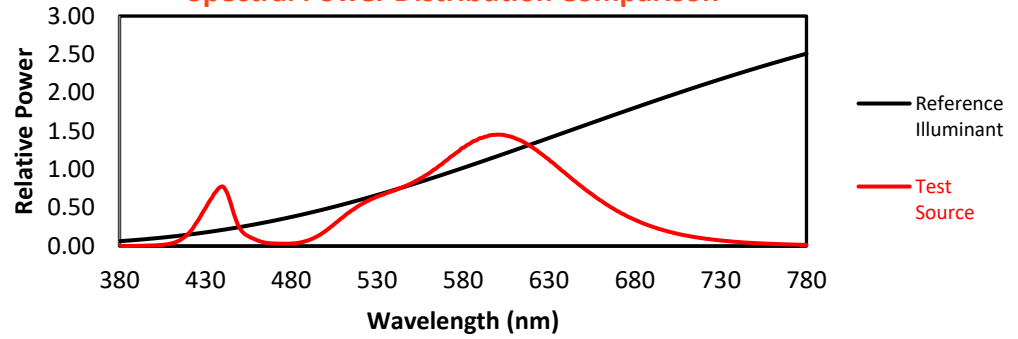
REPORT NUMBER: SP1-2407-184-3

TM-30-18

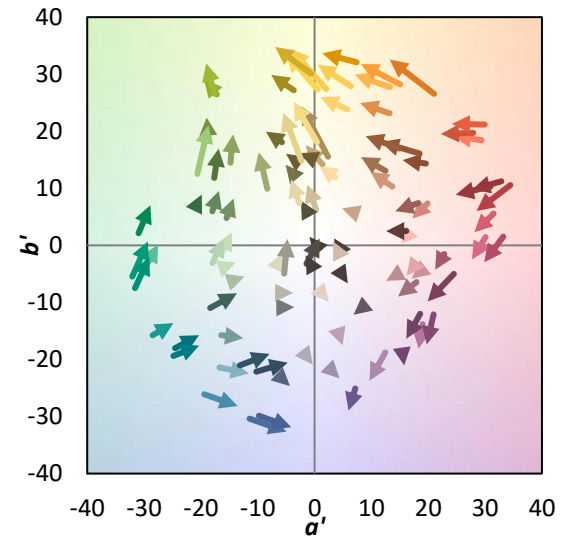
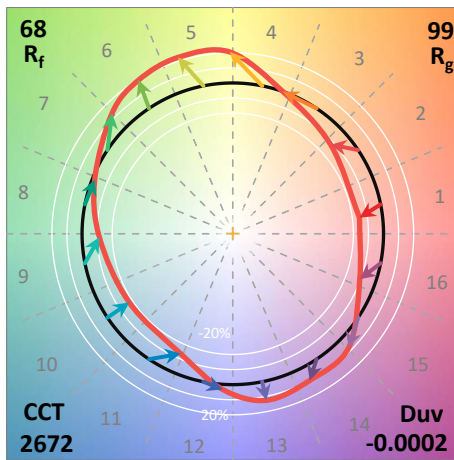
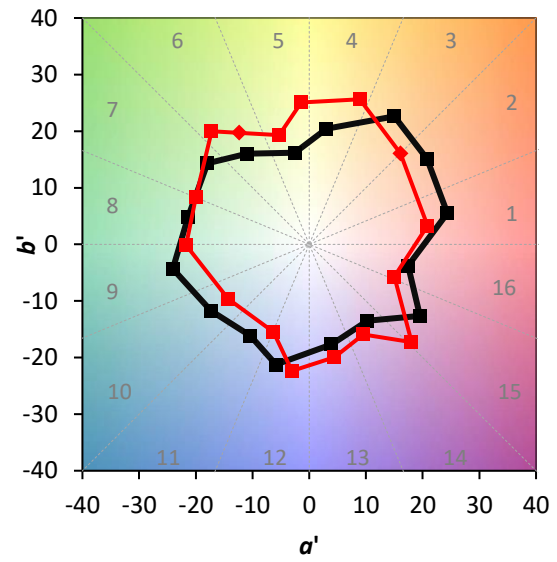
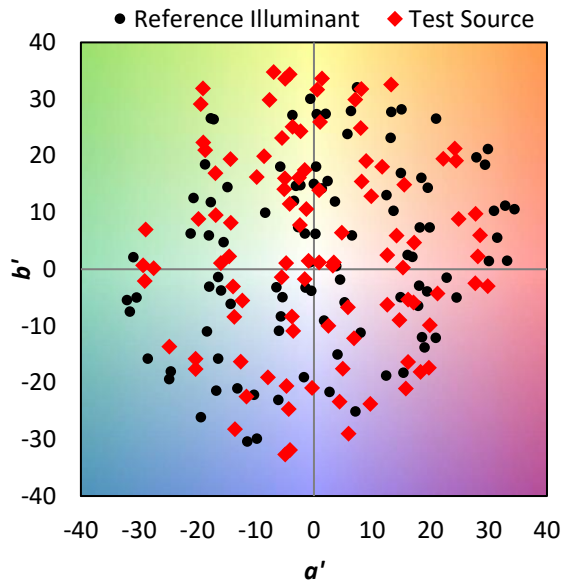
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

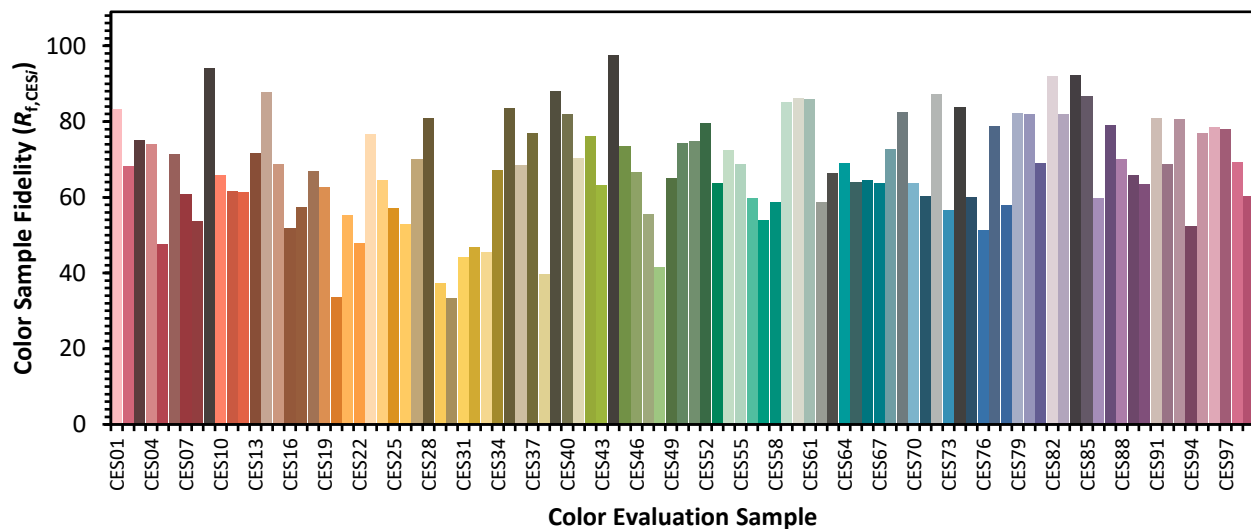


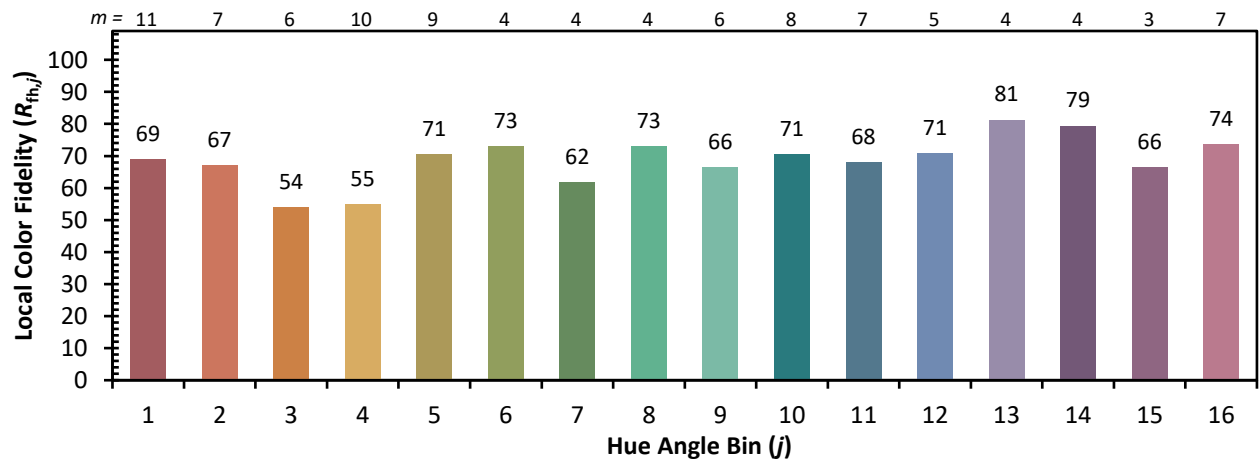
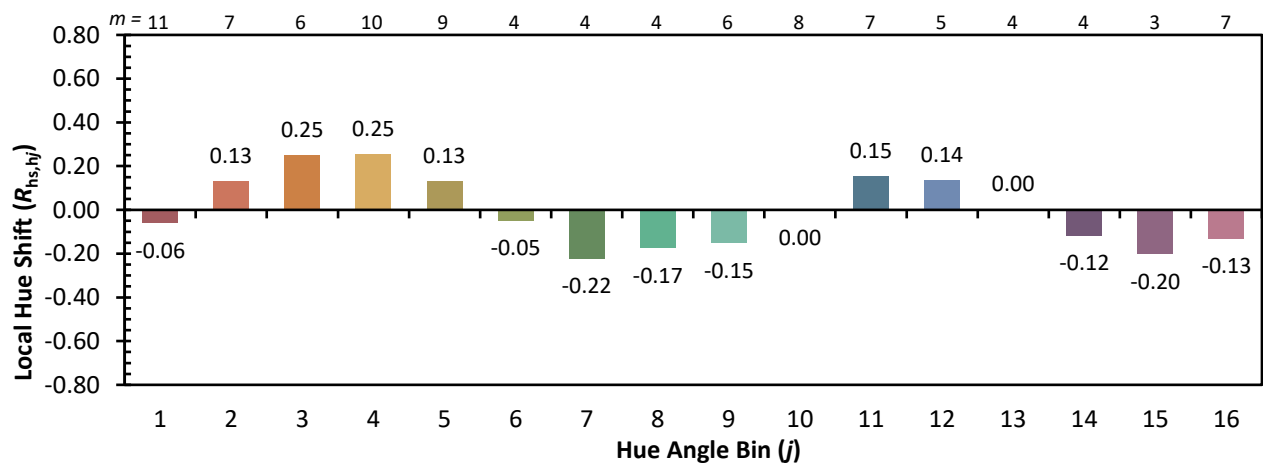
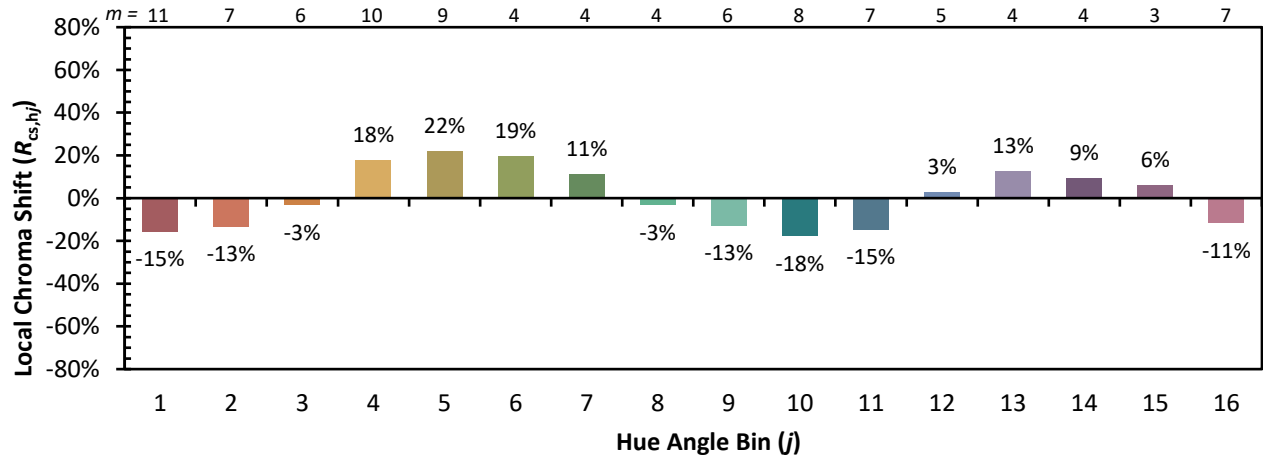
Color Vector Graphics



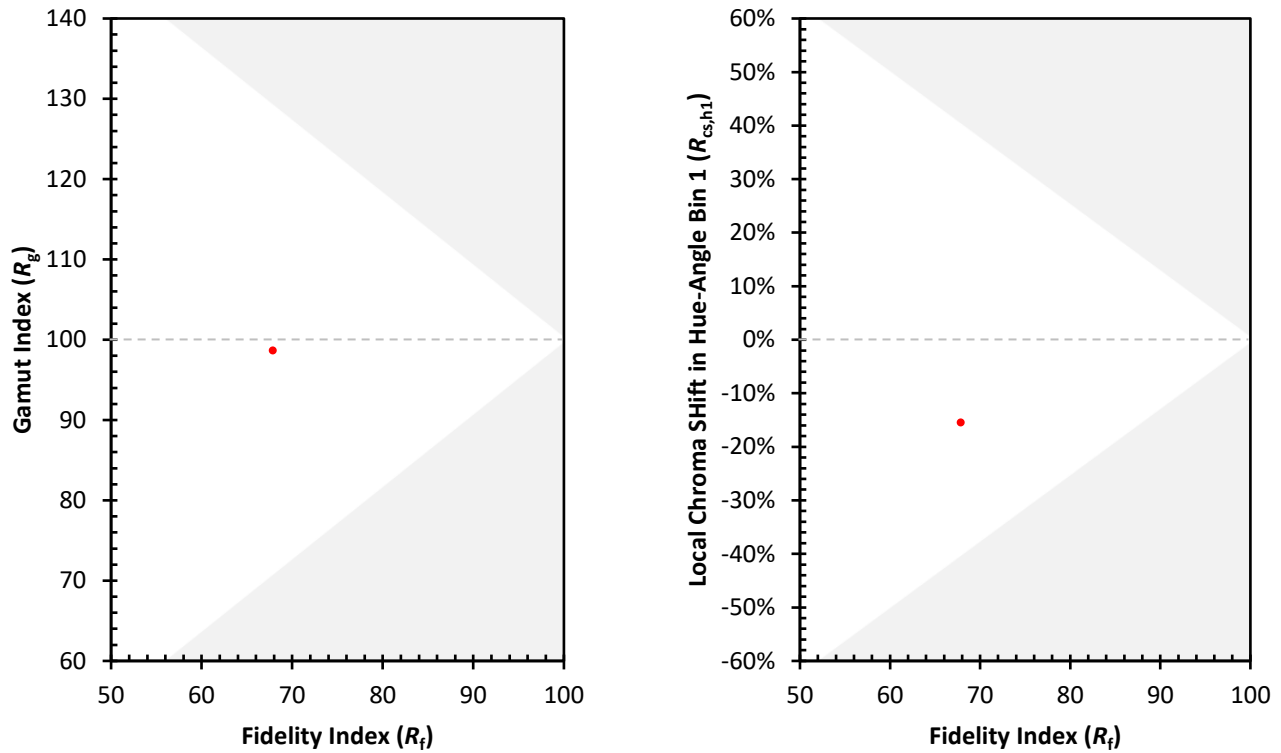
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)