

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: P1049510

Luminaire Tested: **GALN-SA4B-722-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049510
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12023.1 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

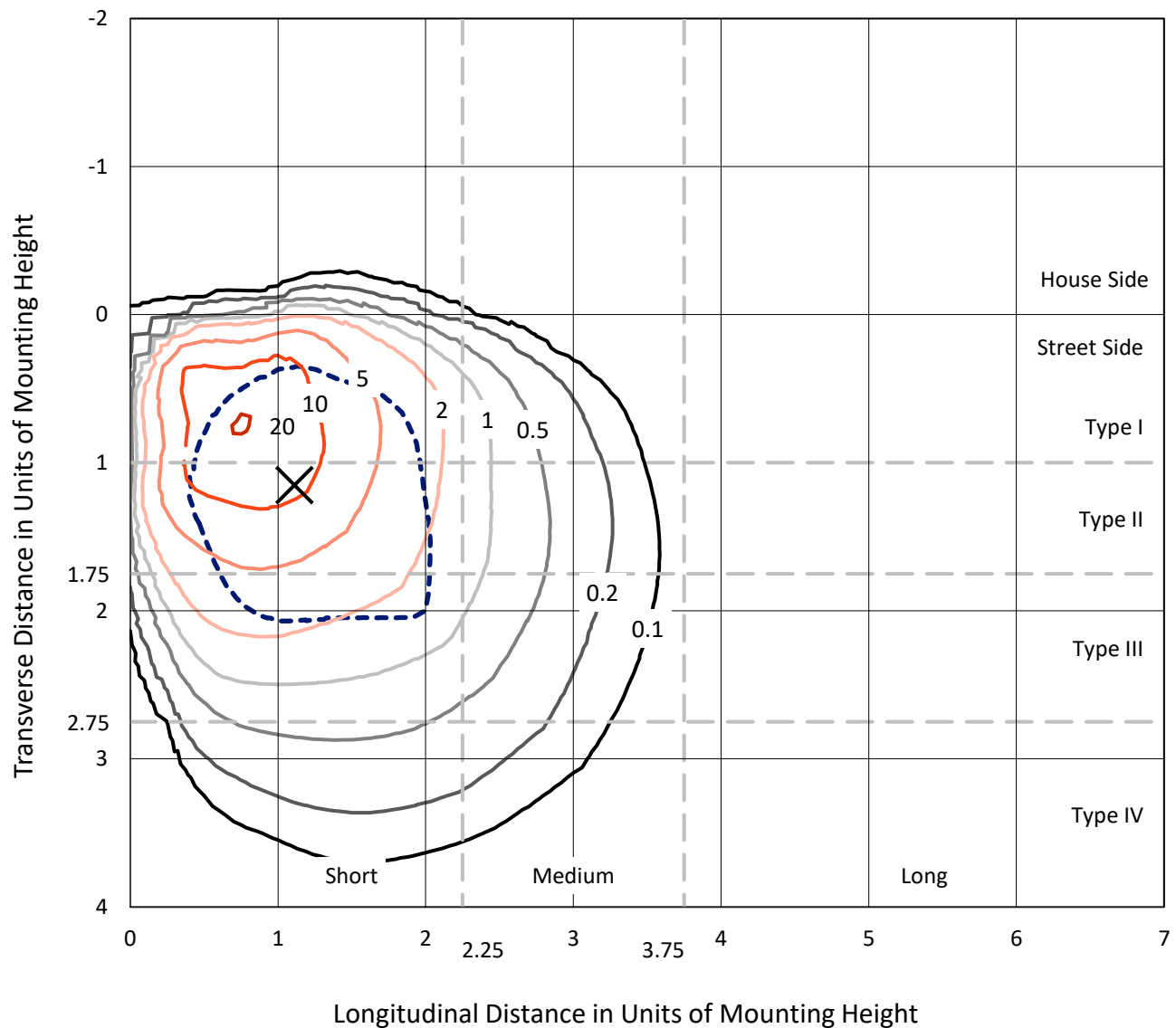
Input Watts (W): 144.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

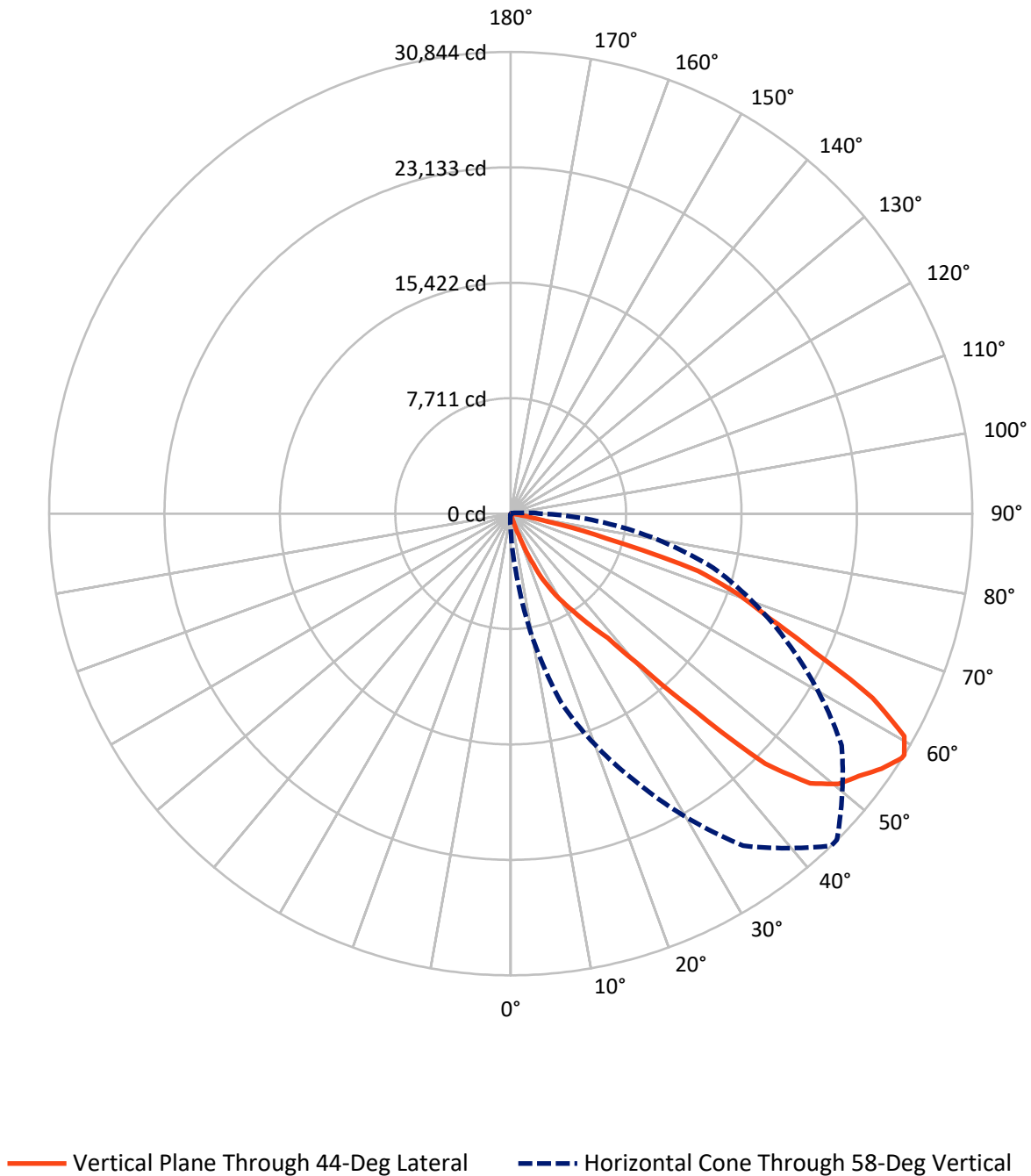
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.9 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	82.1	0.0	82.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	11941.0	0.0	11941.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	12023.1	0.0	12023.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.0
10°-20°	26.4	0.2
20°-30°	284.8	2.4
30°-40°	842.3	7.0
40°-50°	2510.6	20.9
50°-60°	3983.7	33.1
60°-70°	3322.9	27.6
70°-80°	1024.8	8.5
80°-90°	22.8	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°	12023.1	100.0
0°-180°	12023.1	100.0



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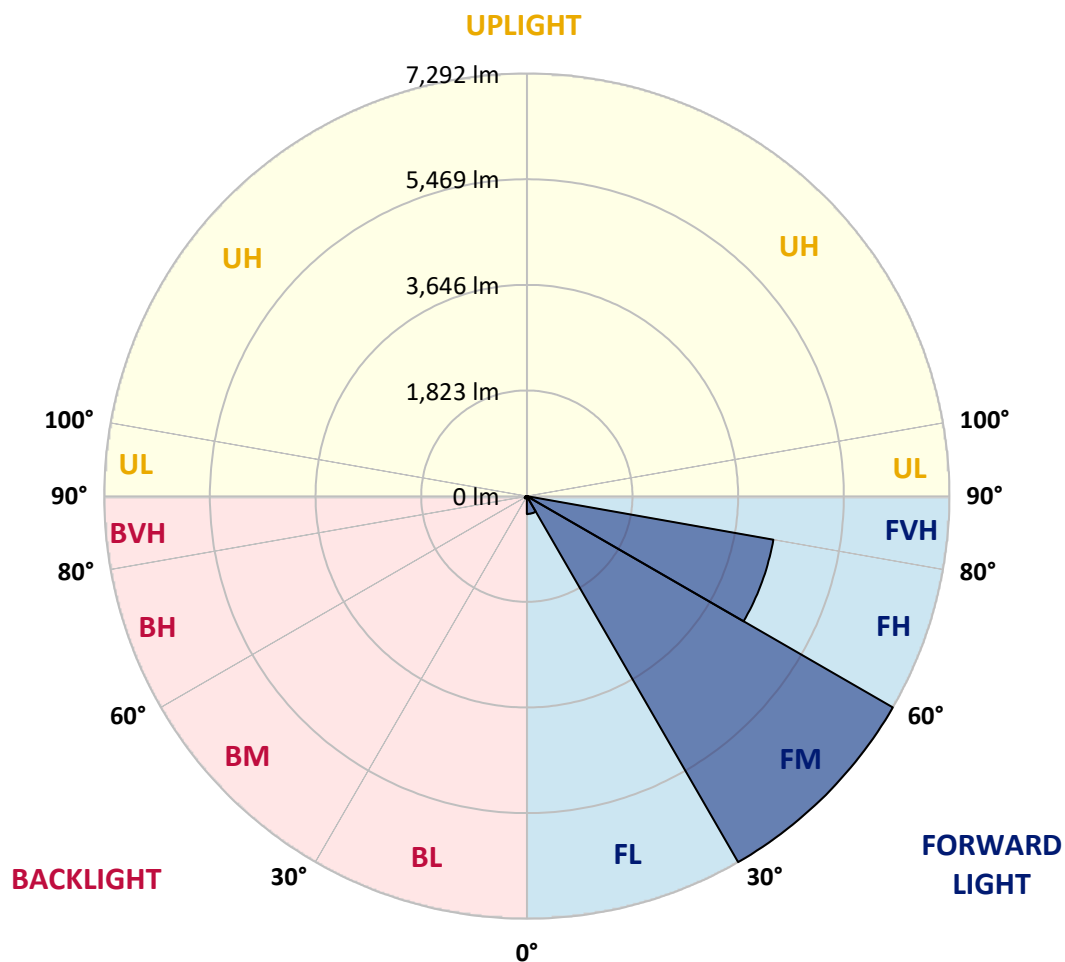
CATALOG NUMBER: GALN-SA4B-722-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	307.9	2.6			
FM	(30°-60°)	7291.8	60.6			
FH	(60°-80°)	4319.7	35.9			G2/5000
FVH	(80°-90°)	21.7	0.2			G1/100
BL	(0°-30°)	8.0	0.1	B0/110		
BM	(30°-60°)	44.9	0.4	B0/220		
BH	(60°-80°)	28.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
2.5°	68.1	68.1	65.4	61.8	58.1	54.5	53.6	51.8	50.9	50.0	49.0
5°	70.8	70.8	69.9	67.2	63.6	60.9	60.9	58.1	56.3	54.5	52.7
7.5°	72.7	73.6	75.4	74.5	72.7	69.9	69.9	68.1	65.4	60.9	58.1
10°	75.4	78.1	81.7	83.6	84.5	84.5	83.6	82.7	78.1	71.8	64.5
12.5°	78.1	83.6	92.6	101.7	107.2	114.4	113.5	111.7	99.9	86.3	73.6
15°	83.6	91.7	110.8	137.1	178.0	203.4	213.4	204.4	165.3	116.3	85.4
17.5°	89.9	103.5	160.8	287.0	470.5	557.7	610.3	567.7	376.0	220.7	107.2
20°	96.3	126.2	298.8	743.9	1220.7	1505.9	1584.9	1461.4	938.2	420.5	158.9
22.5°	107.2	177.1	605.8	1537.7	2630.3	3058.1	3138.9	2743.8	1772.0	830.1	238.9
25°	129.9	257.0	1044.5	2505.8	3925.4	4647.5	4613.9	4096.2	2874.6	1326.0	363.3
27.5°	162.6	374.2	1579.4	3560.3	5166.1	5802.8	5879.1	5238.8	3831.9	1950.0	515.9
30°	209.8	518.6	2153.4	4405.0	6160.6	6849.1	6861.8	6199.7	4688.4	2497.7	703.0
32.5°	255.2	654.8	2655.7	5221.5	7140.6	7895.4	7951.7	7137.0	5327.8	3068.0	865.6
35°	289.7	743.9	3164.3	5939.0	8128.8	9168.7	9165.1	8197.8	6085.2	3577.6	1090.8
37.5°	292.5	832.9	3624.8	6672.9	9380.3	10544.7	10660.1	9593.8	7000.7	4207.9	1366.9
40°	286.1	932.8	4207.9	7817.3	11635.5	13422.0	13523.8	12179.6	8837.2	5286.9	1798.3
42.5°	293.4	1106.2	5154.3	9930.7	15380.2	17946.0	18142.2	16728.9	12213.2	7488.5	2567.6
45°	331.5	1432.3	7137.0	13466.5	20718.0	23845.9	23780.6	21745.2	16141.3	10839.9	4089.8
47.5°	457.8	2230.6	10076.1	16907.9	24129.3	26914.9	26971.2	24483.5	18433.7	13416.6	6139.7
50°	703.9	3413.2	12545.6	18727.1	25596.1	28390.8	28338.1	25463.5	19304.7	14685.4	7395.8
52.5°	915.5	4268.7	13784.4	19365.6	25784.1	29120.1	29116.5	25721.5	19440.1	14794.4	7553.0
55°	968.2	4333.2	13794.4	19400.1	26205.6	30074.7	30194.6	26356.3	19615.3	14318.5	6961.7
57.5°	947.3	3836.4	13218.6	19599.9	26955.8	30813.1	30819.4	26971.2	20060.4	14026.9	5982.6
58°	929.1	3758.3	13102.3	19713.4	27084.7	30844.0	30828.5	26999.4	20422.8	14016.0	5829.1
60°	827.4	3263.3	12649.1	20003.2	26893.1	30210.0	30065.6	26384.5	20369.2	13904.3	5056.2
62.5°	650.3	2545.8	12203.2	19668.0	24838.7	27141.1	27201.0	23359.1	18569.0	13253.1	4145.2
65°	517.7	1897.3	11273.1	17252.1	20453.7	22288.3	22511.7	18995.0	15499.2	11222.3	3056.2
67.5°	412.3	1371.4	9456.6	13735.4	16184.9	18601.7	18764.3	15947.9	12007.9	8598.3	2171.6
70°	335.1	927.3	6527.5	10045.2	13349.4	16066.8	16076.8	13248.6	8962.6	5633.8	1362.4
72.5°	297.0	642.1	3789.2	7325.9	10824.5	13092.3	12828.0	10750.9	6888.1	3336.9	812.0
75°	257.0	426.0	1858.3	4478.6	6563.0	6607.5	6708.3	4987.2	3443.2	1586.7	486.8
77.5°	211.6	302.4	732.0	1223.4	1968.2	2519.5	2613.0	1980.0	1145.3	390.5	259.8
80°	145.3	143.5	197.1	375.1	563.1	705.7	658.5	509.5	299.7	149.9	92.6
82.5°	62.7	68.1	89.0	107.2	87.2	84.5	80.8	51.8	40.0	30.9	19.1
85°	20.0	18.2	19.1	19.1	15.4	11.8	11.8	5.4	0.0	0.0	0.0
87.5°	10.0	8.2	8.2	7.3	4.5	1.8	0.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
2.5°	48.1	48.1	46.3	44.5	43.6	41.8	40.9	40.0	39.1	38.1	37.2
5°	50.9	50.0	47.2	44.5	41.8	39.1	37.2	35.4	33.6	32.7	31.8
7.5°	55.4	53.6	48.1	43.6	40.0	36.3	34.5	31.8	30.0	27.2	26.3
10°	60.9	57.2	50.0	44.5	39.1	34.5	31.8	29.1	26.3	22.7	21.8
12.5°	68.1	61.8	52.7	43.6	37.2	31.8	29.1	25.4	22.7	20.0	18.2
15°	74.5	66.3	53.6	43.6	35.4	29.1	25.4	21.8	19.1	15.4	13.6
17.5°	83.6	69.9	52.7	40.9	32.7	25.4	21.8	19.1	14.5	9.1	7.3
20°	99.0	72.7	50.9	38.1	28.2	20.9	16.3	12.7	6.4	1.8	0.0
22.5°	123.5	79.9	49.0	34.5	24.5	16.3	10.9	4.5	0.0	0.0	0.0
25°	170.7	92.6	49.0	32.7	21.8	11.8	3.6	0.0	0.0	0.0	0.0
27.5°	227.1	109.9	49.0	28.2	17.3	6.4	0.0	0.0	0.0	0.0	0.0
30°	284.3	129.0	49.0	24.5	13.6	0.9	0.0	0.0	0.0	0.0	0.0
32.5°	338.8	145.3	50.0	20.9	9.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	394.2	148.0	49.0	18.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	465.0	142.6	46.3	16.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	572.2	145.3	43.6	15.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	770.2	157.1	40.0	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1331.5	210.7	36.3	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2202.5	378.7	35.4	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2811.0	476.8	37.2	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2806.5	531.3	39.1	18.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
55°	2494.9	541.3	41.8	20.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2085.3	494.1	48.1	24.5	21.8	0.0	0.0	0.0	0.0	0.0	0.0
58°	2012.7	472.3	50.0	25.4	23.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	1649.4	385.1	63.6	31.8	31.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1138.9	336.1	72.7	40.9	32.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	805.6	303.4	79.0	43.6	26.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	602.2	279.7	87.2	44.5	13.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	461.4	262.5	107.2	47.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	376.0	242.5	129.9	49.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	311.5	218.9	125.3	53.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	207.1	169.8	114.4	53.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	72.7	67.2	89.0	47.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.9	9.1	12.7	16.3	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
2.5°	37.2	37.2	36.3	37.2	37.2	39.1	43.6	50.0	57.2	59.9	62.7
5°	30.9	30.0	29.1	29.1	29.1	31.8	35.4	42.7	50.9	54.5	56.3
7.5°	25.4	24.5	23.6	22.7	22.7	24.5	29.1	37.2	45.4	49.0	51.8
10°	20.9	19.1	18.2	17.3	17.3	19.1	23.6	31.8	40.9	44.5	48.1
12.5°	17.3	14.5	12.7	11.8	10.9	13.6	18.2	25.4	35.4	40.0	43.6
15°	11.8	9.1	6.4	5.4	4.5	7.3	11.8	20.0	30.0	35.4	39.1
17.5°	6.4	2.7	0.9	0.0	0.0	1.8	5.4	14.5	24.5	29.1	33.6
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	18.2	22.7	27.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	10.9	15.4	20.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.2	11.8
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.4
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	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3	10.0
90°	0.0	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):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
2.5°	64.5	63.6	61.8	59.9	59.9	59.9	62.7	65.4	68.1	68.1
5°	59.9	59.9	59.0	57.2	57.2	58.1	61.8	66.3	69.9	70.8
7.5°	55.4	57.2	55.4	54.5	55.4	56.3	59.9	65.4	70.8	72.7
10°	52.7	53.6	53.6	52.7	52.7	54.5	58.1	65.4	72.7	75.4
12.5°	49.0	50.9	50.0	50.0	50.0	51.8	56.3	64.5	74.5	78.1
15°	45.4	48.1	48.1	47.2	47.2	48.1	54.5	63.6	77.2	83.6
17.5°	41.8	44.5	45.4	43.6	43.6	45.4	51.8	63.6	79.0	89.9
20°	34.5	39.1	41.8	39.1	39.1	40.9	47.2	59.9	79.9	96.3
22.5°	27.2	31.8	35.4	34.5	34.5	35.4	43.6	57.2	80.8	107.2
25°	20.0	24.5	27.2	29.1	29.1	31.8	40.0	55.4	84.5	129.9
27.5°	11.8	17.3	20.9	22.7	23.6	27.2	37.2	53.6	90.8	162.6
30°	5.4	10.0	14.5	18.2	18.2	24.5	34.5	51.8	99.0	209.8
32.5°	0.0	4.5	7.3	12.7	13.6	20.0	31.8	50.0	110.8	255.2
35°	0.0	0.0	3.6	10.0	10.0	16.3	29.1	48.1	129.0	289.7
37.5°	0.0	0.0	0.0	7.3	8.2	14.5	28.2	47.2	132.6	292.5
40°	0.0	0.0	0.0	5.4	6.4	13.6	28.2	48.1	119.9	286.1
42.5°	0.0	0.0	0.0	3.6	4.5	13.6	28.2	50.0	108.1	293.4
45°	0.0	0.0	0.0	2.7	3.6	14.5	27.2	49.0	101.7	331.5
47.5°	0.0	0.0	0.0	3.6	5.4	14.5	26.3	48.1	102.6	457.8
50°	0.0	0.0	0.0	4.5	6.4	14.5	27.2	46.3	112.6	703.9
52.5°	0.0	0.0	0.0	3.6	5.4	16.3	30.0	45.4	122.6	915.5
55°	0.0	0.0	0.0	0.9	2.7	20.9	32.7	45.4	138.1	968.2
57.5°	0.0	0.0	0.0	0.0	0.0	23.6	37.2	48.1	163.5	947.3
58°	0.0	0.0	0.0	0.0	0.0	23.6	38.1	48.1	165.3	929.1
60°	0.0	0.0	0.0	0.0	0.0	23.6	41.8	53.6	178.0	827.4
62.5°	0.0	0.0	0.0	0.0	0.0	20.0	50.0	67.2	185.3	650.3
65°	0.0	0.0	0.0	0.0	0.0	16.3	59.0	73.6	190.7	517.7
67.5°	0.0	0.0	0.0	0.0	0.0	15.4	60.9	74.5	193.5	412.3
70°	0.0	0.0	0.0	0.0	0.0	16.3	59.9	79.9	202.5	335.1
72.5°	0.0	0.0	0.0	0.0	0.0	18.2	54.5	88.1	202.5	297.0
75°	0.0	0.0	0.0	0.0	0.0	19.1	50.9	99.0	184.4	257.0
77.5°	0.0	0.0	0.0	0.0	0.0	18.2	50.0	115.3	164.4	211.6
80°	1.8	2.7	2.7	1.8	1.8	15.4	49.0	117.2	139.9	145.3
82.5°	5.4	7.3	6.4	4.5	4.5	13.6	43.6	98.1	72.7	62.7
85°	10.0	11.8	11.8	10.0	10.0	12.7	27.2	35.4	24.5	20.0
87.5°	13.6	15.4	15.4	13.6	13.6	12.7	11.8	10.9	10.0	10.0
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: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

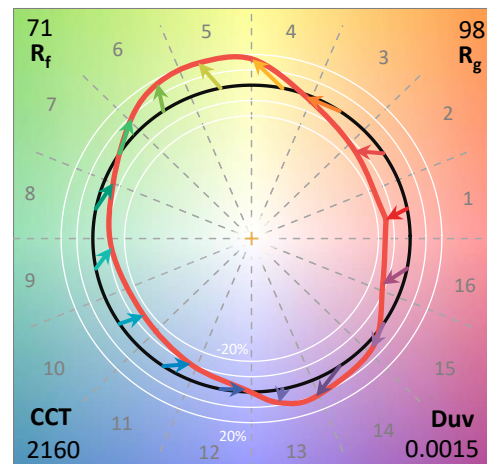
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

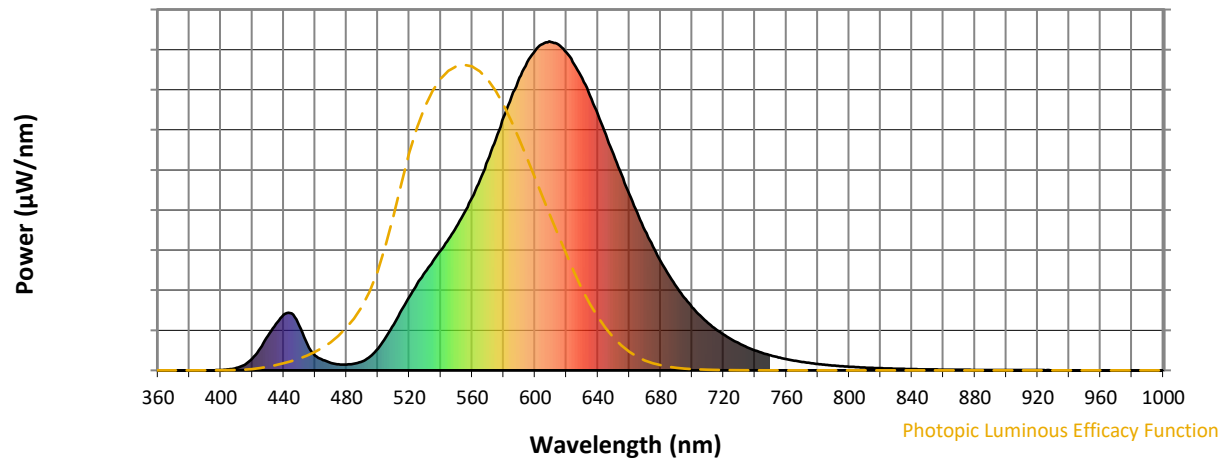
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

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: SP1-2407-184-2

Photopic Flux vs. Wavelength

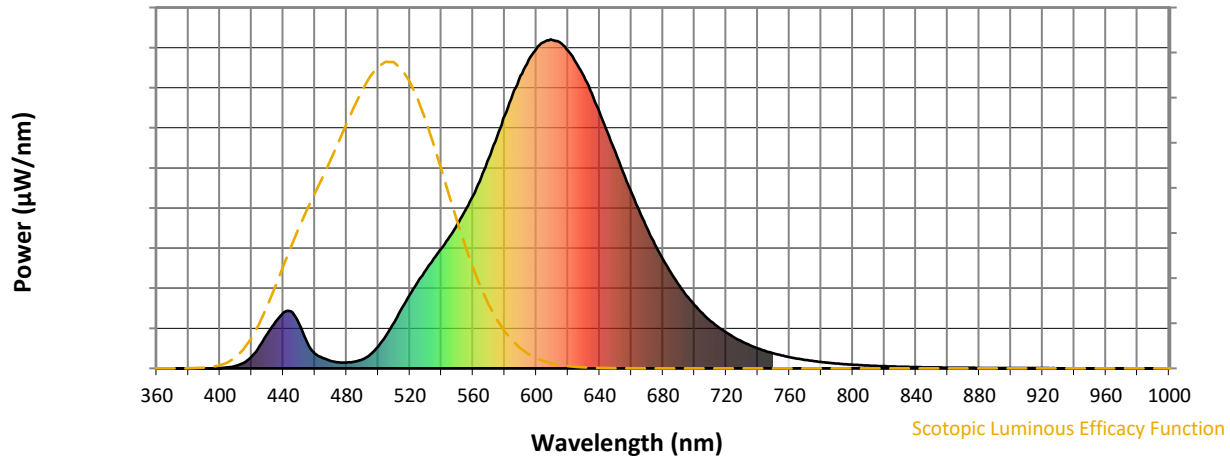


Photopic Lumens: NR

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength

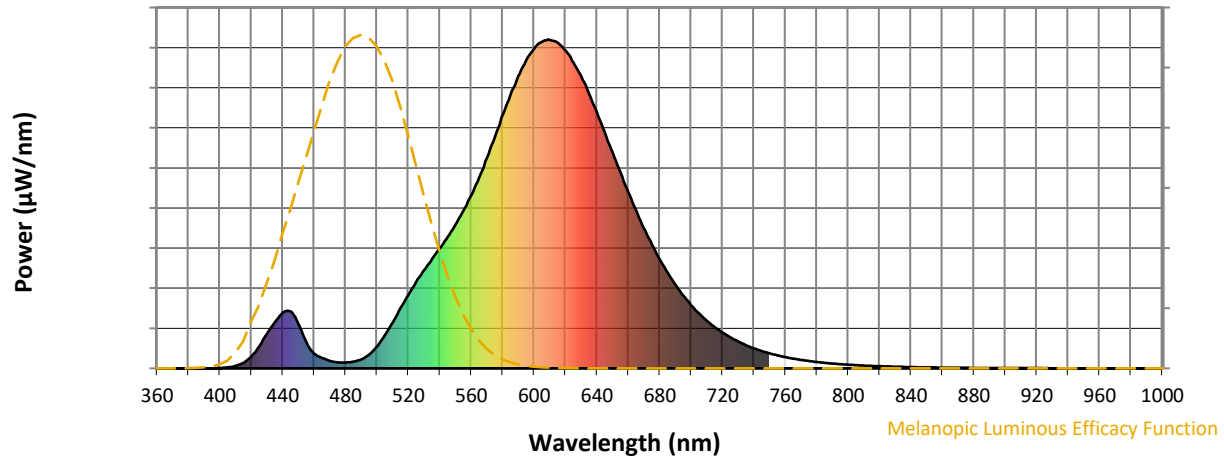


Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Melanopic Flux vs. Wavelength

Melanopic Lumens: NR
M/P: 1.21

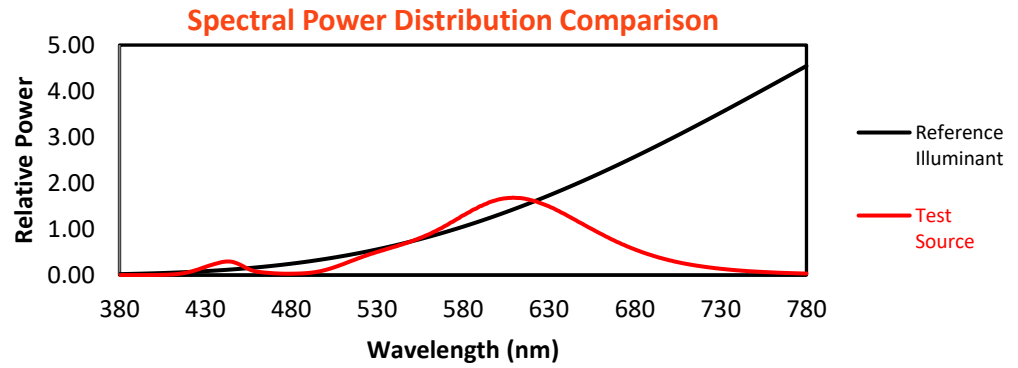
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

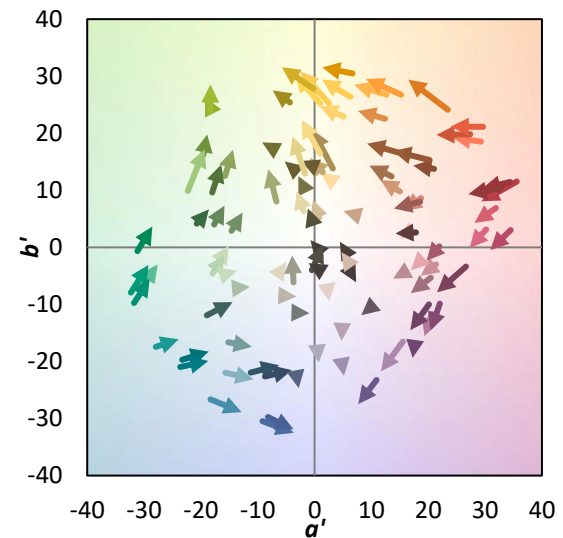
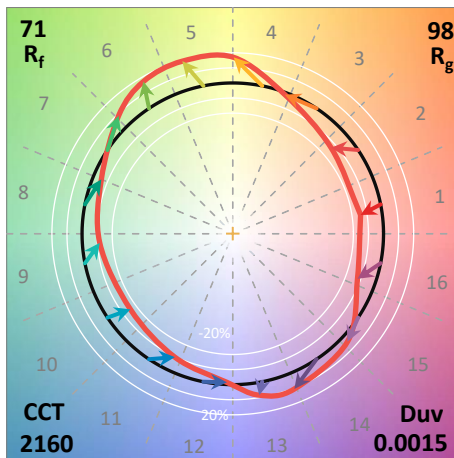
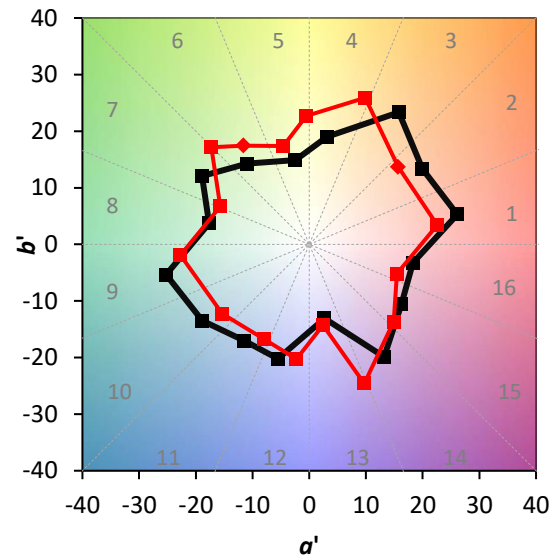
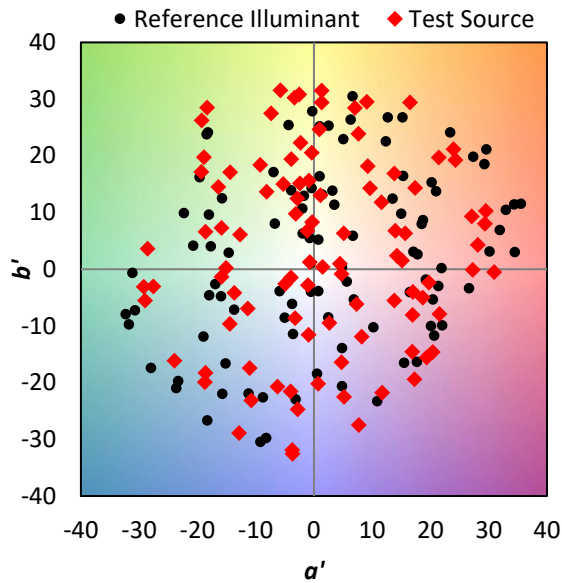
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE\ R_a = 71.9$
 $R_g = -17.8$

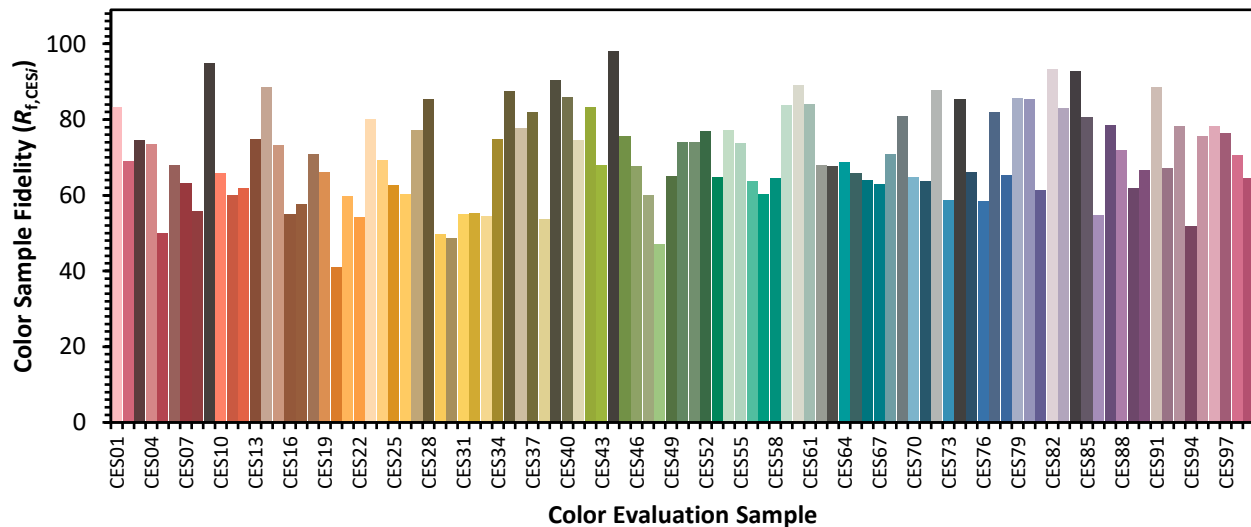


Color Vector Graphics

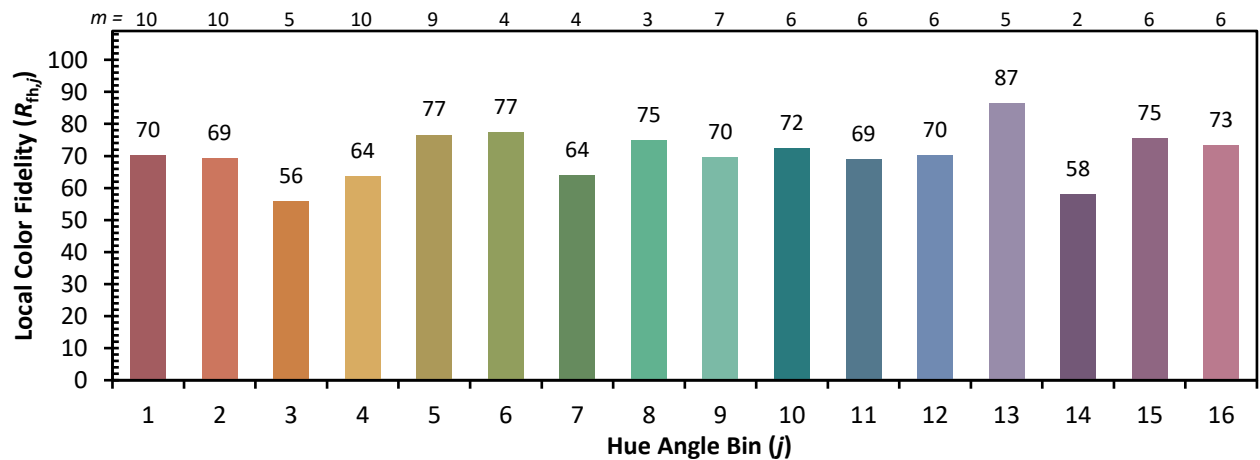
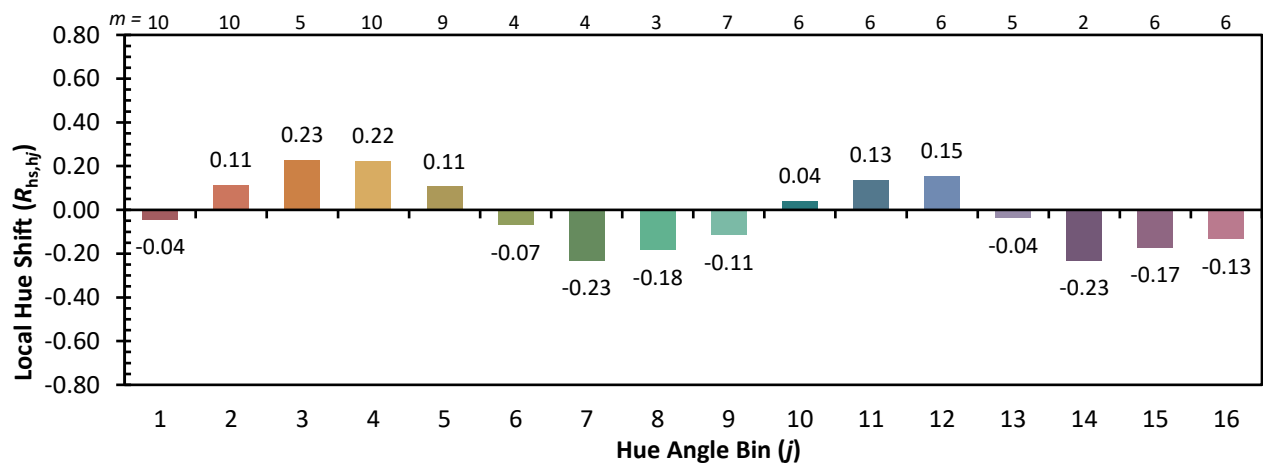
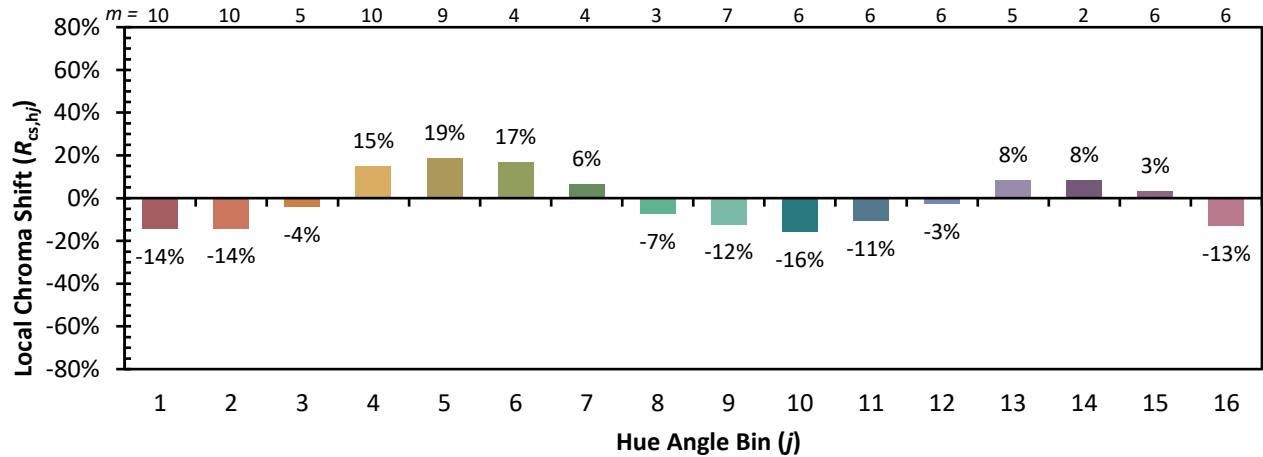


Individual Sample Fidelity Index ($R_{f,i}$)

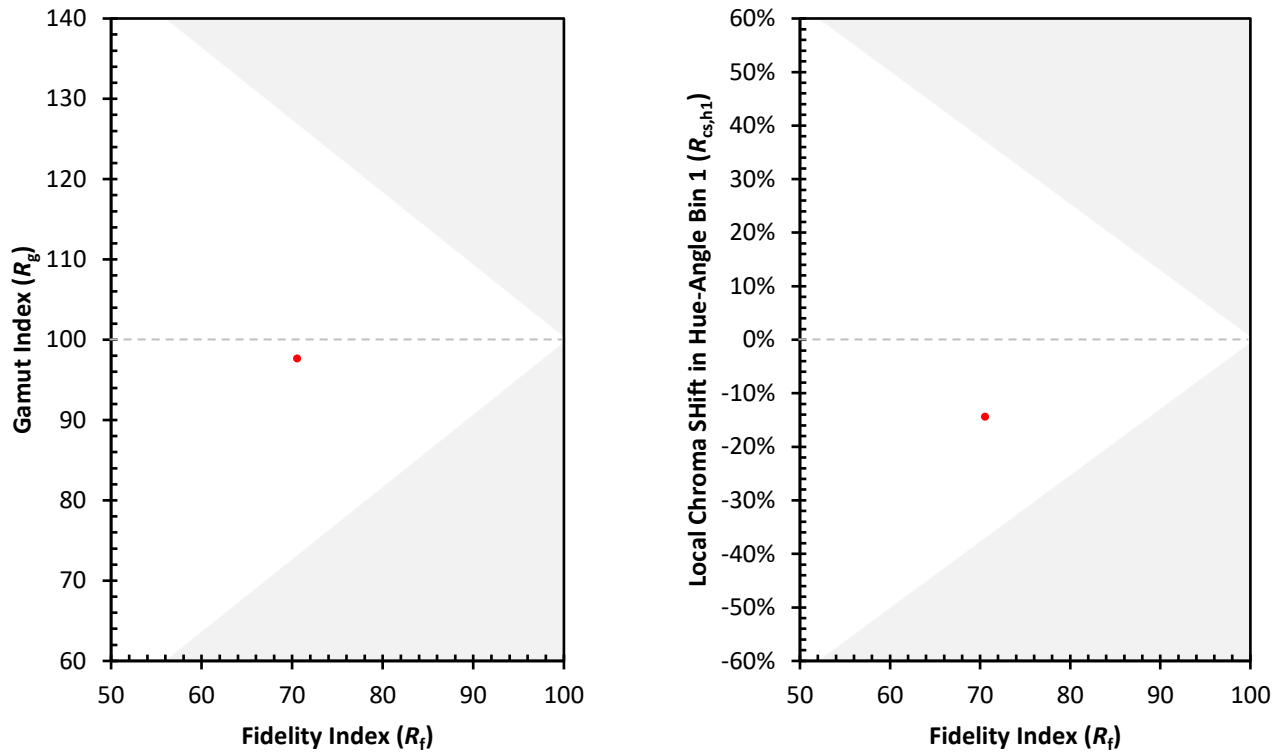
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)