

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: STREETWORKS

Report Number: P1065389

Luminaire Tested: **GLAN-SA2A-830-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065389
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5997.5 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

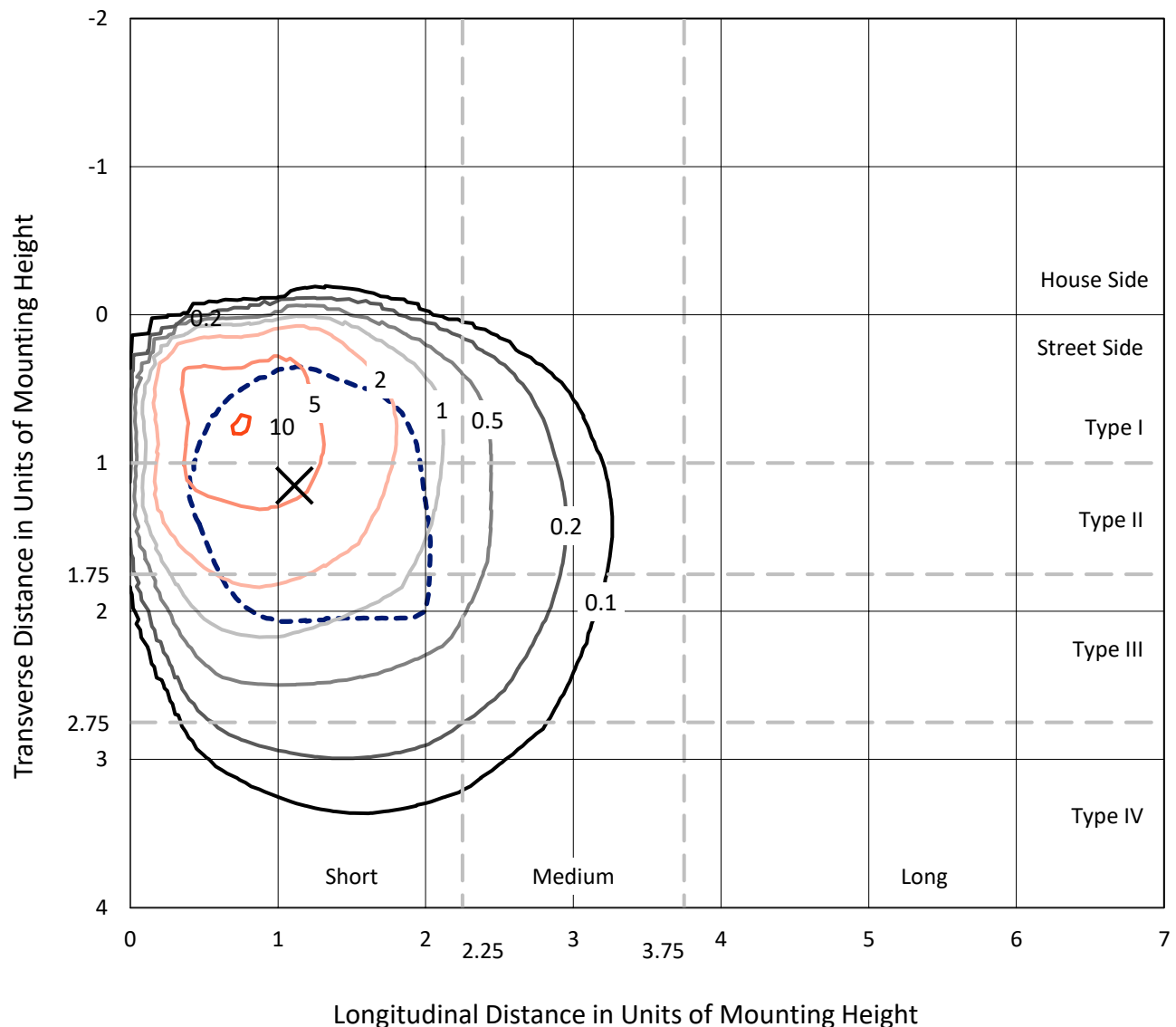
Input Watts (W): 55.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

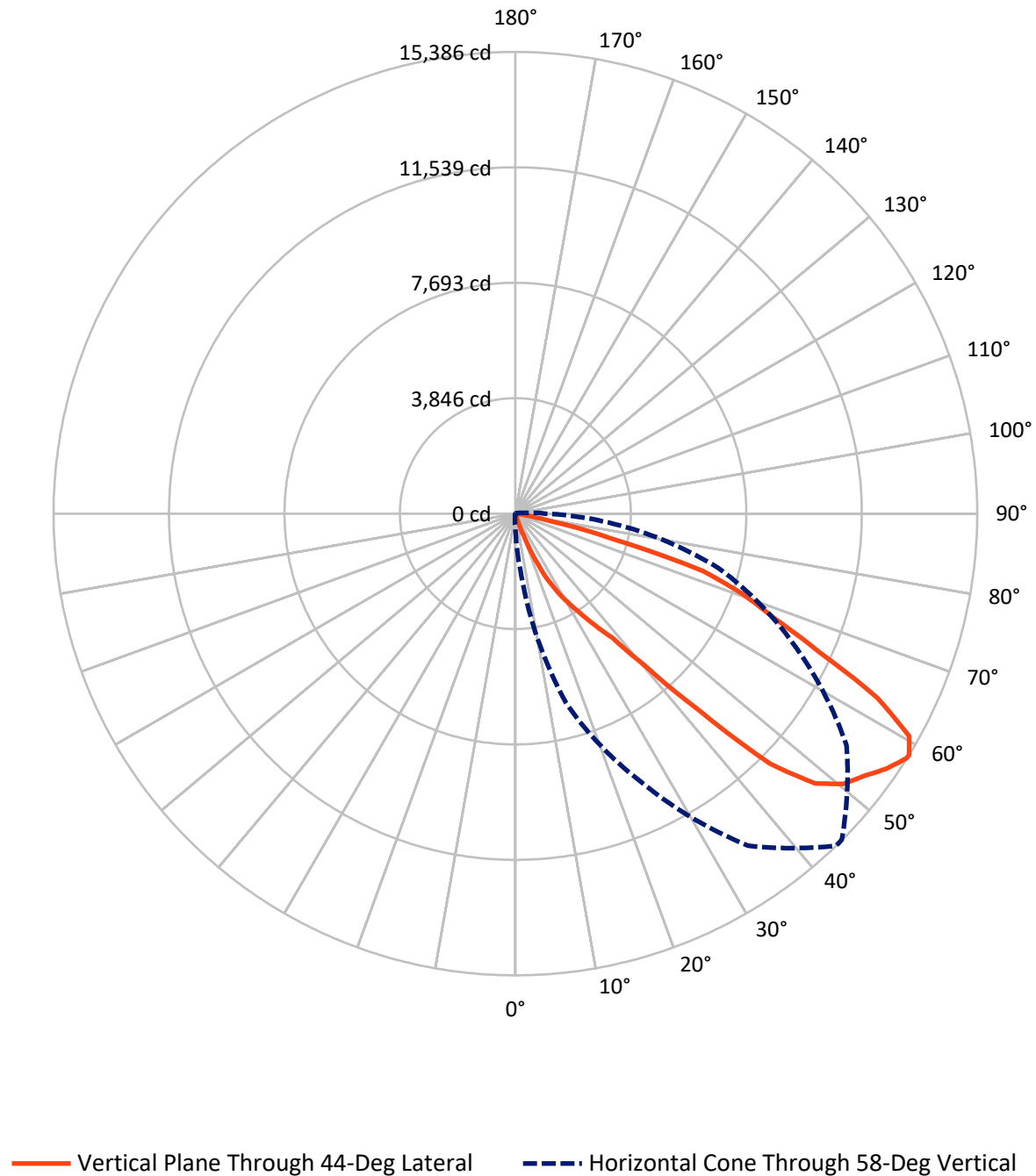
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.4 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	41.0	0.0	41.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	5956.5	0.0	5956.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	5997.5	0.0	5997.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.0
10°-20°	13.2	0.2
20°-30°	142.1	2.4
30°-40°	420.2	7.0
40°-50°	1252.4	20.9
50°-60°	1987.2	33.1
60°-70°	1657.6	27.6
70°-80°	511.2	8.5
80°-90°	11.4	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°	5997.5	100.0
0°-180°	5997.5	100.0

Coefficient of Utilization



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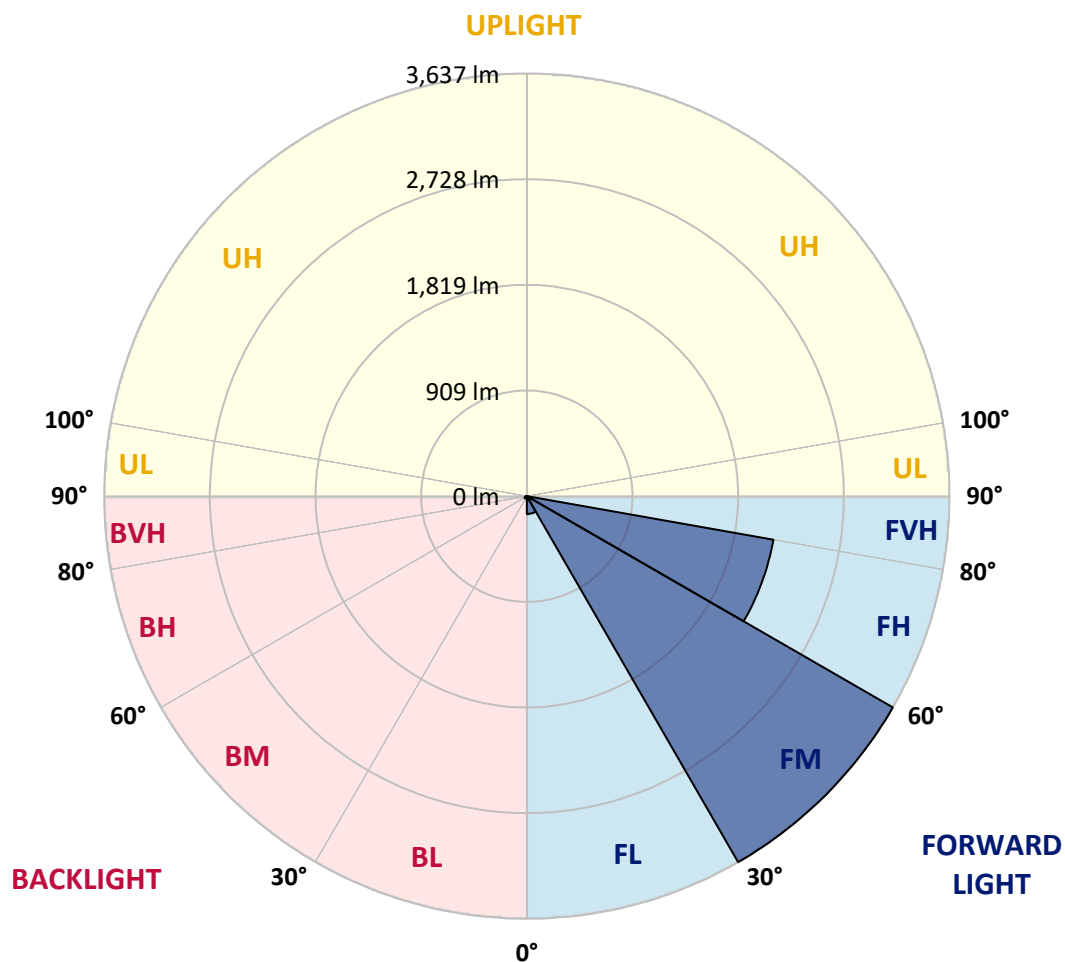
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	153.6	2.6			
FM	(30°-60°)	3637.4	60.6			
FH	(60°-80°)	2154.8	35.9			G2/5000
FVH	(80°-90°)	10.8	0.2			G1/100
BL	(0°-30°)	4.0	0.1	B0/110		
BM	(30°-60°)	22.4	0.4	B0/220		
BH	(60°-80°)	14.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.5	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°
0°	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
2.5°	34.0	34.0	32.6	30.8	29.0	27.2	26.7	25.8	25.4	24.9
5°	35.3	35.3	34.9	33.5	31.7	30.4	30.4	29.0	28.1	27.2
7.5°	36.2	36.7	37.6	37.2	36.2	34.9	34.9	34.0	32.6	30.4
10°	37.6	39.0	40.8	41.7	42.1	42.1	41.7	41.2	39.0	35.8
12.5°	39.0	41.7	46.2	50.7	53.5	57.1	56.6	55.7	49.8	43.0
15°	41.7	45.8	55.3	68.4	88.8	101.5	106.5	101.9	82.5	58.0
17.5°	44.9	51.6	80.2	143.2	234.7	278.2	304.5	283.2	187.6	110.1
20°	48.0	63.0	149.1	371.1	608.9	751.2	790.6	729.0	468.0	209.8
22.5°	53.5	88.3	302.2	767.0	1312.1	1525.5	1565.8	1368.7	883.9	414.1
25°	64.8	128.2	521.0	1250.0	1958.1	2318.3	2301.5	2043.3	1433.9	661.5
27.5°	81.1	186.7	787.9	1776.0	2577.0	2894.6	2932.7	2613.2	1911.5	972.7
30°	104.7	258.7	1074.2	2197.3	3073.1	3416.5	3422.9	3092.6	2338.7	1245.9
32.5°	127.3	326.7	1324.7	2604.6	3562.0	3938.4	3966.5	3560.1	2657.6	1530.4
35°	144.5	371.1	1578.5	2962.6	4054.9	4573.6	4571.8	4089.3	3035.5	1784.6
37.5°	145.9	415.5	1808.2	3328.6	4679.2	5260.0	5317.6	4785.7	3492.2	2099.0
40°	142.7	465.3	2099.0	3899.5	5804.1	6695.3	6746.1	6075.5	4408.3	2637.3
42.5°	146.3	551.8	2571.1	4953.8	7672.1	8952.0	9049.9	8344.9	6092.3	3735.5
45°	165.4	714.5	3560.1	6717.5	10334.7	11895.1	11862.5	10847.2	8051.8	5407.3
47.5°	228.3	1112.7	5026.2	8434.2	12036.4	13426.0	13454.1	12213.1	9195.3	6692.6
50°	351.1	1702.6	6258.1	9341.6	12768.1	14162.2	14135.9	12702.0	9629.8	7325.5
52.5°	456.7	2129.4	6876.1	9660.1	12861.9	14526.0	14524.2	12830.6	9697.3	7379.9
55°	483.0	2161.5	6881.1	9677.4	13072.1	15002.2	15062.0	13147.3	9784.7	7142.5
57.5°	472.5	1913.7	6593.8	9777.0	13446.4	15370.5	15373.7	13454.1	10006.7	6997.1
58°	463.5	1874.8	6535.8	9833.7	13510.7	15385.9	15378.2	13468.1	10187.5	6991.6
60°	412.7	1627.8	6309.8	9978.2	13415.1	15069.7	14997.6	13161.4	10160.8	6935.9
62.5°	324.4	1269.9	6087.3	9811.0	12390.3	13538.8	13568.7	11652.2	9262.8	6611.0
65°	258.2	946.4	5623.4	8605.9	10202.9	11118.1	11229.5	9475.3	7731.5	5598.0
67.5°	205.7	684.1	4717.3	6851.6	8073.5	9279.1	9360.2	7955.3	5989.9	4289.1
70°	167.2	462.6	3256.1	5010.8	6659.1	8014.6	8019.6	6608.8	4470.8	2810.3
72.5°	148.2	320.3	1890.2	3654.4	5399.6	6530.9	6399.0	5362.9	3436.0	1664.5
75°	128.2	212.5	927.0	2234.0	3273.8	3296.0	3346.3	2487.8	1717.5	791.5
77.5°	105.6	150.9	365.2	610.3	981.8	1256.8	1303.5	987.7	571.3	194.8
80°	72.5	71.6	98.3	187.1	280.9	352.0	328.5	254.2	149.5	74.8
82.5°	31.3	34.0	44.4	53.5	43.5	42.1	40.3	25.8	19.9	15.4
85°	10.0	9.1	9.5	9.5	7.7	5.9	5.9	2.7	0.0	0.0
87.5°	5.0	4.1	4.1	3.6	2.3	0.9	0.5	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°
26.3	0°	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
24.5	2.5°	24.0	24.0	23.1	22.2	21.7	20.8	20.4	19.9	19.5	19.0
26.3	5°	25.4	24.9	23.6	22.2	20.8	19.5	18.6	17.7	16.8	16.3
29.0	7.5°	27.6	26.7	24.0	21.7	19.9	18.1	17.2	15.9	15.0	13.6
32.2	10°	30.4	28.5	24.9	22.2	19.5	17.2	15.9	14.5	13.1	11.3
36.7	12.5°	34.0	30.8	26.3	21.7	18.6	15.9	14.5	12.7	11.3	10.0
42.6	15°	37.2	33.1	26.7	21.7	17.7	14.5	12.7	10.9	9.5	7.7
53.5	17.5°	41.7	34.9	26.3	20.4	16.3	12.7	10.9	9.5	7.2	4.5
79.3	20°	49.4	36.2	25.4	19.0	14.0	10.4	8.2	6.3	3.2	0.9
119.2	22.5°	61.6	39.9	24.5	17.2	12.2	8.2	5.4	2.3	0.0	0.0
181.2	25°	85.2	46.2	24.5	16.3	10.9	5.9	1.8	0.0	0.0	0.0
257.3	27.5°	113.3	54.8	24.5	14.0	8.6	3.2	0.0	0.0	0.0	0.0
350.7	30°	141.8	64.3	24.5	12.2	6.8	0.5	0.0	0.0	0.0	0.0
431.8	32.5°	169.0	72.5	24.9	10.4	4.5	0.0	0.0	0.0	0.0	0.0
544.1	35°	196.6	73.8	24.5	9.1	2.7	0.0	0.0	0.0	0.0	0.0
681.9	37.5°	232.0	71.1	23.1	8.2	1.4	0.0	0.0	0.0	0.0	0.0
897.1	40°	285.4	72.5	21.7	7.7	0.5	0.0	0.0	0.0	0.0	0.0
1280.8	42.5°	384.2	78.4	19.9	7.7	0.0	0.0	0.0	0.0	0.0	0.0
2040.1	45°	664.2	105.1	18.1	8.2	0.0	0.0	0.0	0.0	0.0	0.0
3062.7	47.5°	1098.7	188.9	17.7	8.2	0.0	0.0	0.0	0.0	0.0	0.0
3689.3	50°	1402.2	237.9	18.6	8.6	0.0	0.0	0.0	0.0	0.0	0.0
3767.6	52.5°	1400.0	265.0	19.5	9.1	1.8	0.0	0.0	0.0	0.0	0.0
3472.7	55°	1244.6	270.0	20.8	10.0	5.9	0.0	0.0	0.0	0.0	0.0
2984.3	57.5°	1040.2	246.5	24.0	12.2	10.9	0.0	0.0	0.0	0.0	0.0
2907.7	58°	1004.0	235.6	24.9	12.7	11.8	0.0	0.0	0.0	0.0	0.0
2522.2	60°	822.8	192.1	31.7	15.9	15.9	0.0	0.0	0.0	0.0	0.0
2067.8	62.5°	568.1	167.6	36.2	20.4	16.3	0.0	0.0	0.0	0.0	0.0
1524.5	65°	401.9	151.3	39.4	21.7	13.1	0.0	0.0	0.0	0.0	0.0
1083.3	67.5°	300.4	139.5	43.5	22.2	6.8	0.0	0.0	0.0	0.0	0.0
679.6	70°	230.2	130.9	53.5	23.6	1.8	0.0	0.0	0.0	0.0	0.0
405.0	72.5°	187.6	121.0	64.8	24.5	0.0	0.0	0.0	0.0	0.0	0.0
242.8	75°	155.4	109.2	62.5	26.7	0.0	0.0	0.0	0.0	0.0	0.0
129.6	77.5°	103.3	84.7	57.1	26.7	0.0	0.0	0.0	0.0	0.0	0.0
46.2	80°	36.2	33.5	44.4	23.6	0.0	0.0	0.0	0.0	0.0	0.0
9.5	82.5°	5.4	4.5	6.3	8.2	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°
26.3	0°	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
18.6	2.5°	18.6	18.6	18.1	18.6	18.6	19.5	21.7	24.9	28.5	29.9
15.9	5°	15.4	15.0	14.5	14.5	14.5	15.9	17.7	21.3	25.4	27.2
13.1	7.5°	12.7	12.2	11.8	11.3	11.3	12.2	14.5	18.6	22.7	24.5
10.9	10°	10.4	9.5	9.1	8.6	8.6	9.5	11.8	15.9	20.4	22.2
9.1	12.5°	8.6	7.2	6.3	5.9	5.4	6.8	9.1	12.7	17.7	19.9
6.8	15°	5.9	4.5	3.2	2.7	2.3	3.6	5.9	10.0	15.0	17.7
3.6	17.5°	3.2	1.4	0.5	0.0	0.0	0.9	2.7	7.2	12.2	14.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	9.1	11.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.4	7.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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	1.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6
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°
26.3	0°	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
31.3	2.5°	32.2	31.7	30.8	29.9	29.9	29.9	31.3	32.6	34.0	34.0
28.1	5°	29.9	29.9	29.4	28.5	28.5	29.0	30.8	33.1	34.9	35.3
25.8	7.5°	27.6	28.5	27.6	27.2	27.6	28.1	29.9	32.6	35.3	36.2
24.0	10°	26.3	26.7	26.7	26.3	26.3	27.2	29.0	32.6	36.2	37.6
21.7	12.5°	24.5	25.4	24.9	24.9	24.9	25.8	28.1	32.2	37.2	39.0
19.5	15°	22.7	24.0	24.0	23.6	23.6	24.0	27.2	31.7	38.5	41.7
16.8	17.5°	20.8	22.2	22.7	21.7	21.7	22.7	25.8	31.7	39.4	44.9
13.6	20°	17.2	19.5	20.8	19.5	19.5	20.4	23.6	29.9	39.9	48.0
10.0	22.5°	13.6	15.9	17.7	17.2	17.2	17.7	21.7	28.5	40.3	53.5
5.9	25°	10.0	12.2	13.6	14.5	14.5	15.9	19.9	27.6	42.1	64.8
2.7	27.5°	5.9	8.6	10.4	11.3	11.8	13.6	18.6	26.7	45.3	81.1
0.0	30°	2.7	5.0	7.2	9.1	9.1	12.2	17.2	25.8	49.4	104.7
0.0	32.5°	0.0	2.3	3.6	6.3	6.8	10.0	15.9	24.9	55.3	127.3
0.0	35°	0.0	0.0	1.8	5.0	5.0	8.2	14.5	24.0	64.3	144.5
0.0	37.5°	0.0	0.0	0.0	3.6	4.1	7.2	14.0	23.6	66.1	145.9
0.0	40°	0.0	0.0	0.0	2.7	3.2	6.8	14.0	24.0	59.8	142.7
0.0	42.5°	0.0	0.0	0.0	1.8	2.3	6.8	14.0	24.9	53.9	146.3
0.0	45°	0.0	0.0	0.0	1.4	1.8	7.2	13.6	24.5	50.7	165.4
0.0	47.5°	0.0	0.0	0.0	1.8	2.7	7.2	13.1	24.0	51.2	228.3
0.0	50°	0.0	0.0	0.0	2.3	3.2	7.2	13.6	23.1	56.2	351.1
0.0	52.5°	0.0	0.0	0.0	1.8	2.7	8.2	15.0	22.7	61.2	456.7
0.0	55°	0.0	0.0	0.0	0.5	1.4	10.4	16.3	22.7	68.9	483.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	11.8	18.6	24.0	81.6	472.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	11.8	19.0	24.0	82.5	463.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	11.8	20.8	26.7	88.8	412.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	10.0	24.9	33.5	92.4	324.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	8.2	29.4	36.7	95.1	258.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	7.7	30.4	37.2	96.5	205.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	8.2	29.9	39.9	101.0	167.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	9.1	27.2	43.9	101.0	148.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	9.5	25.4	49.4	92.0	128.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	9.1	24.9	57.5	82.0	105.6
0.0	80°	0.9	1.4	1.4	0.9	0.9	7.7	24.5	58.4	69.8	72.5
0.5	82.5°	2.7	3.6	3.2	2.3	2.3	6.8	21.7	48.9	36.2	31.3
2.7	85°	5.0	5.9	5.9	5.0	5.0	6.3	13.6	17.7	12.2	10.0
5.0	87.5°	6.8	7.7	7.7	6.8	6.8	6.3	5.9	5.4	5.0	5.0
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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

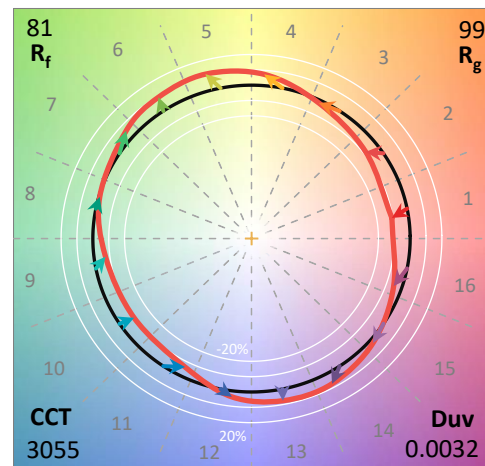
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

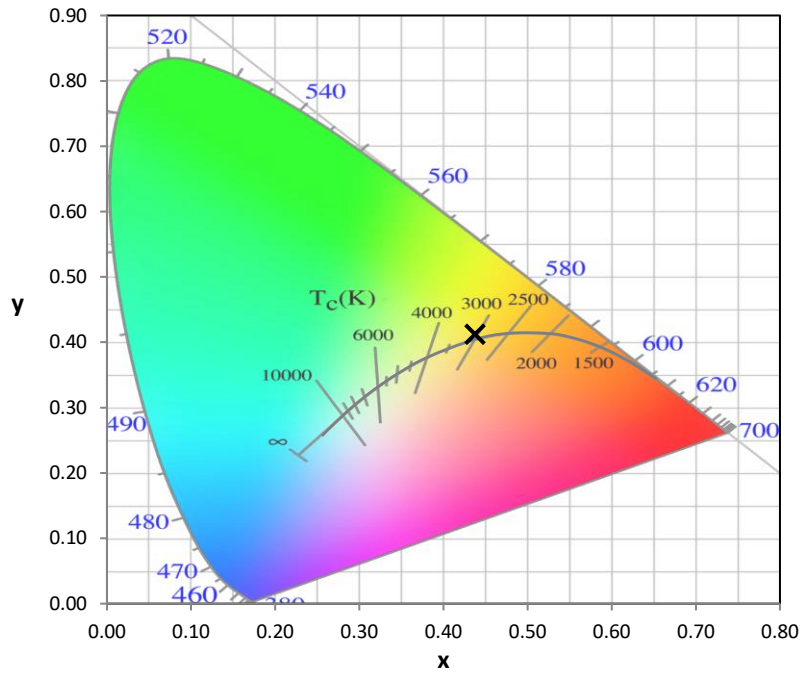
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

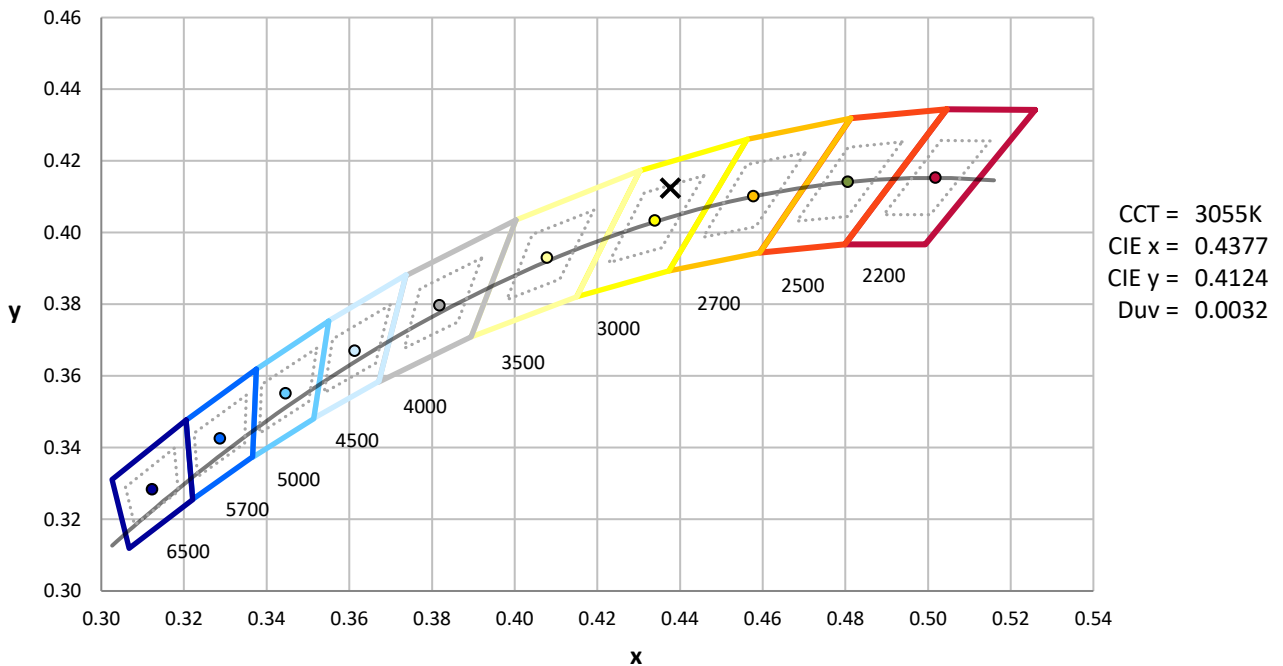
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

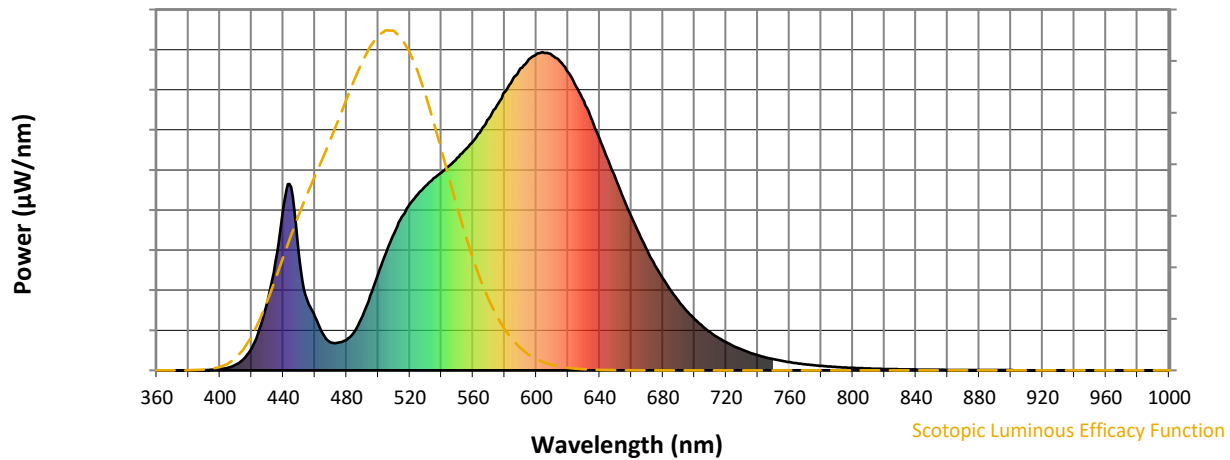


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



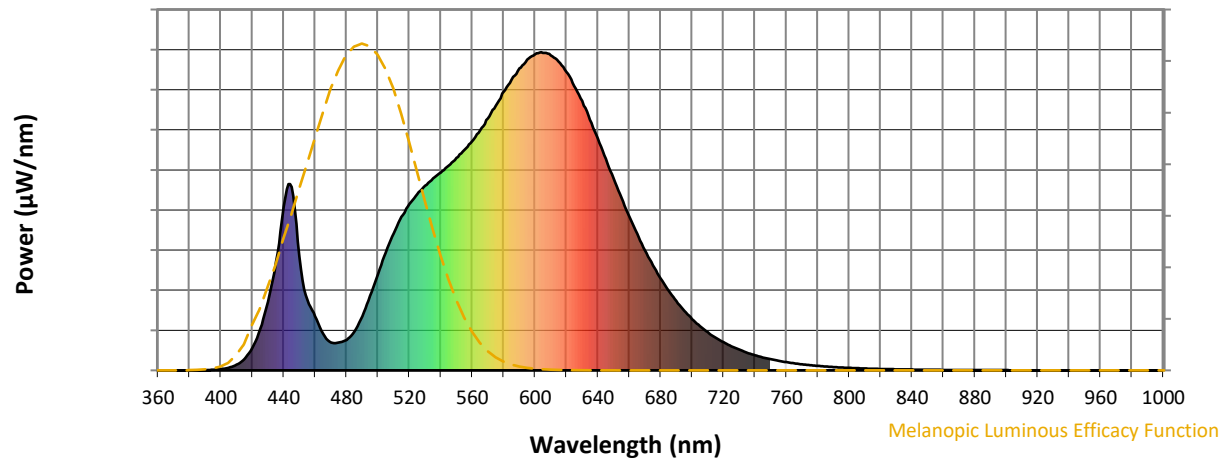
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

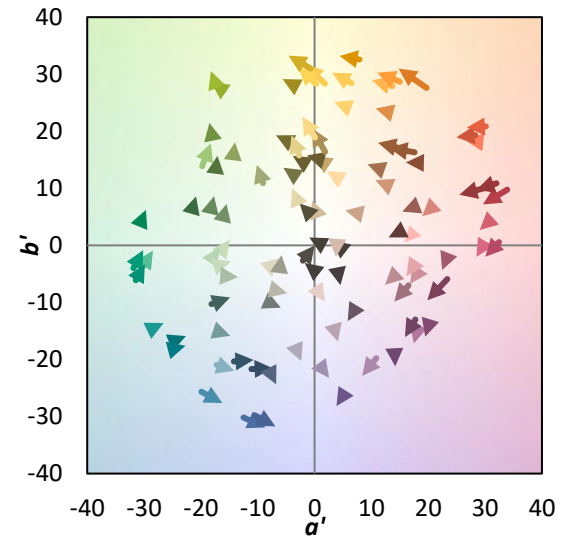
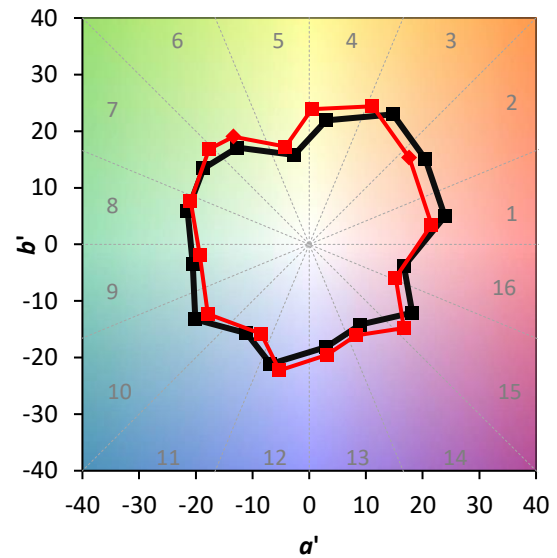
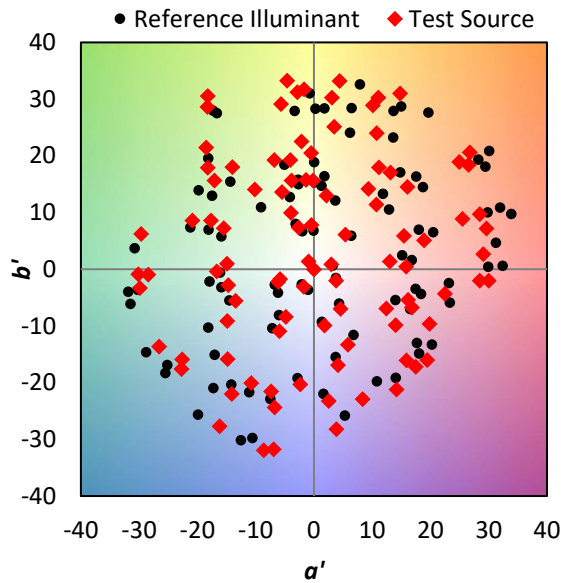
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

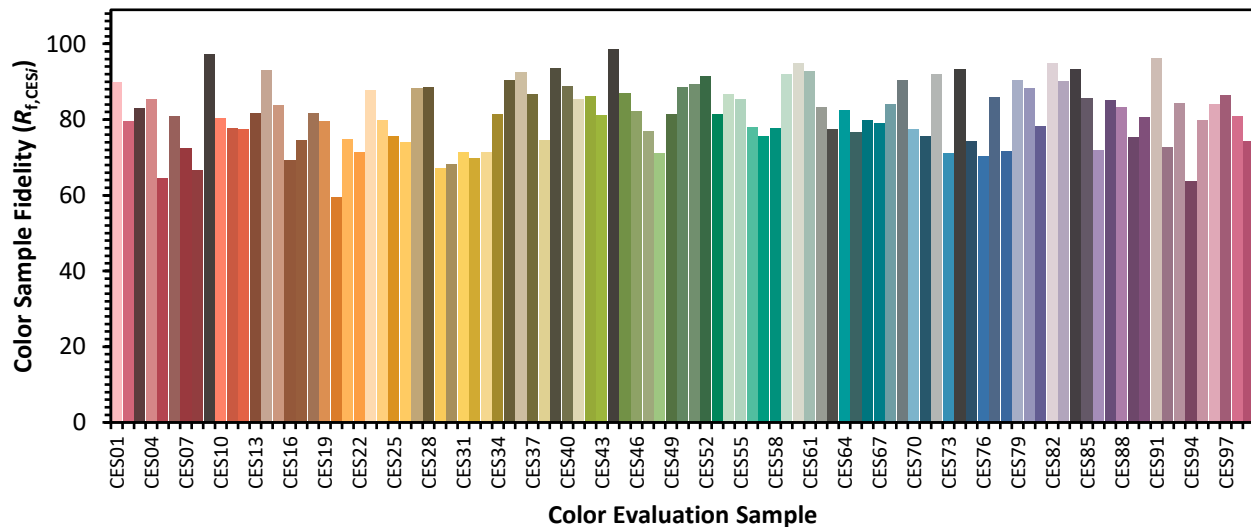


Color Vector Graphics

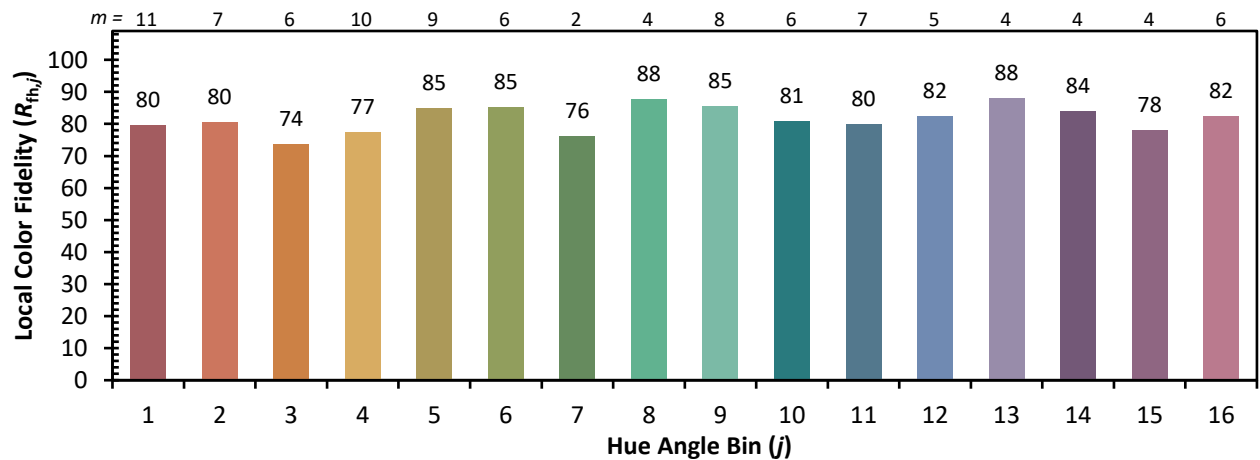
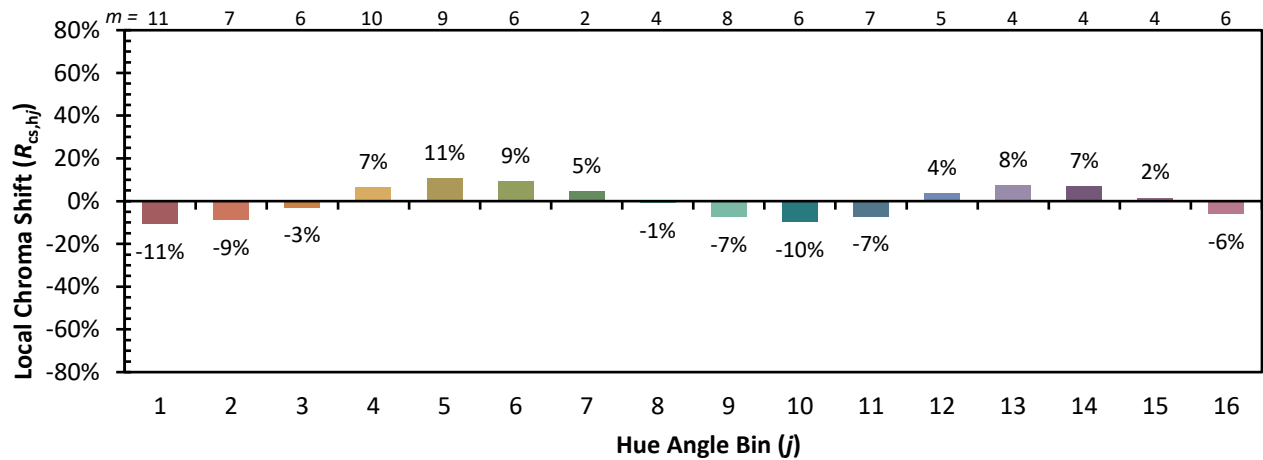


Individual Sample Fidelity Index ($R_{f,i}$)

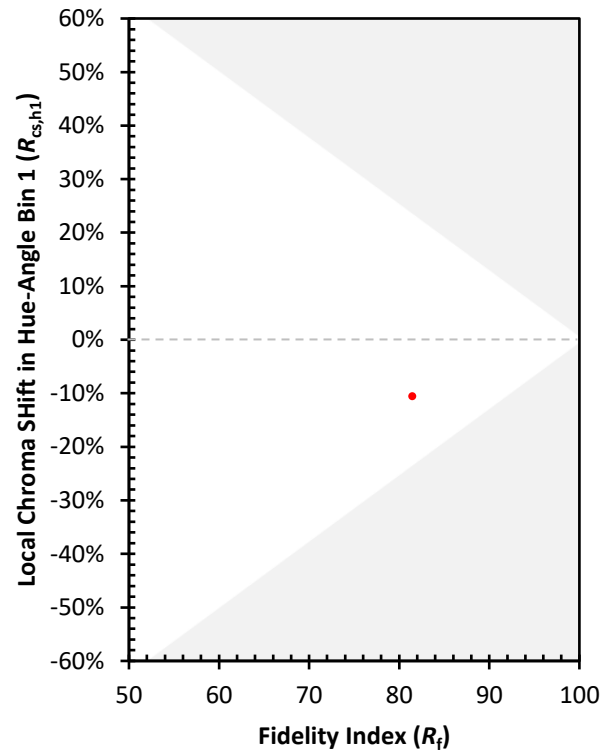
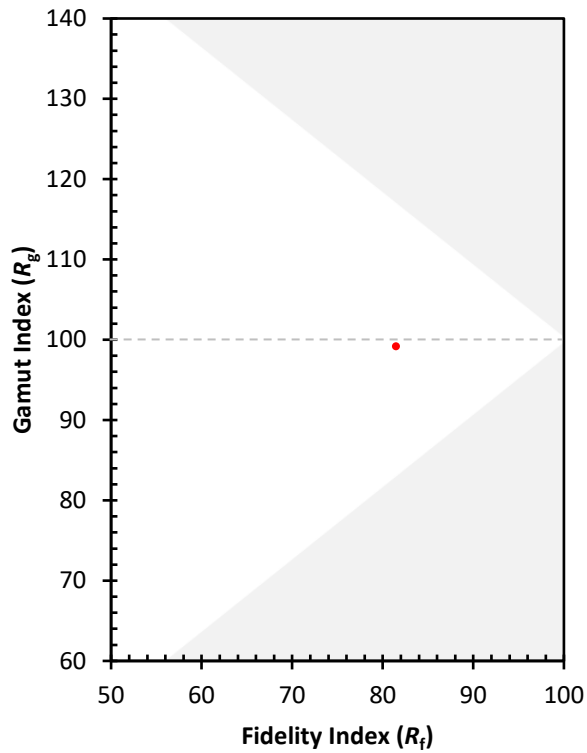
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)