

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: P1065358

Luminaire Tested: **GLAN-SA3B-827-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065358
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3B-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11030.1 lumens
Efficiency: N/A
Efficacy: 103.9 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): 106.2
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

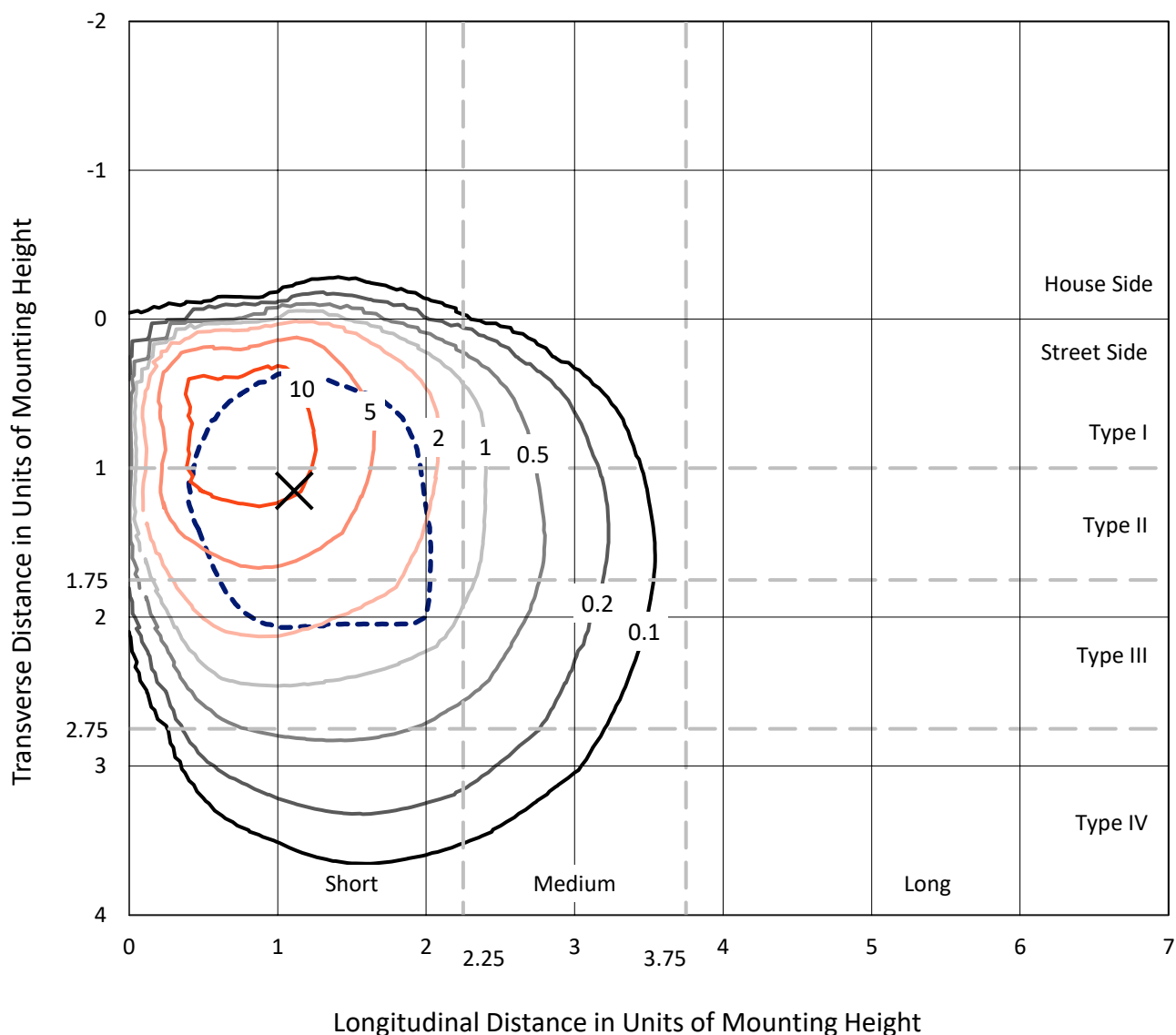
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

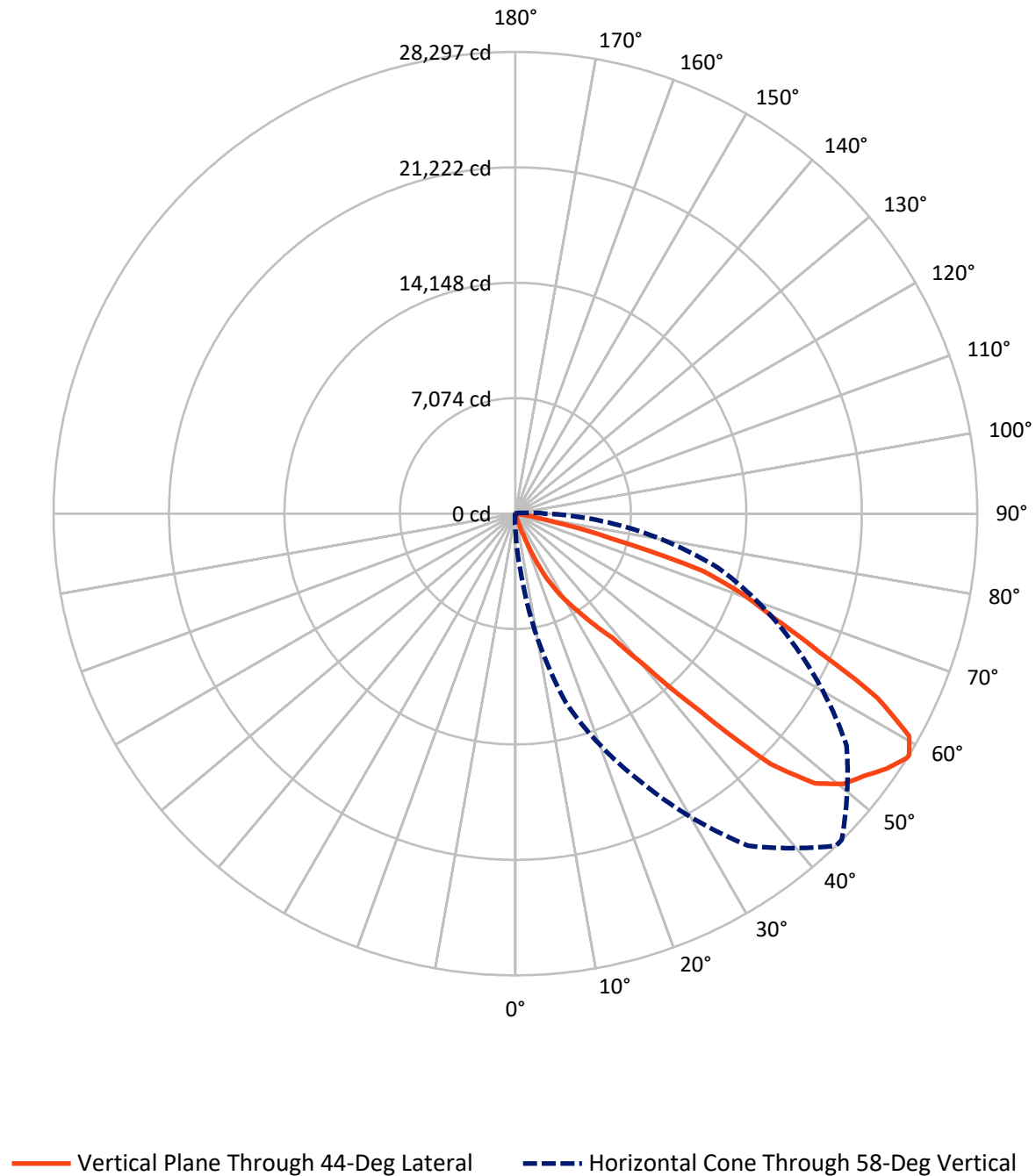


Based on 20 foot mounting height. Maximum calculated value = 19.2 fc

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	75.3	0.0	75.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	10954.8	0.0	10954.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	11030.1	0.0	11030.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.0
10°-20°	24.2	0.2
20°-30°	261.3	2.4
30°-40°	772.8	7.0
40°-50°	2303.3	20.9
50°-60°	3654.7	33.1
60°-70°	3048.5	27.6
70°-80°	940.2	8.5
80°-90°	20.9	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11030.1	100.0
0°-180°	11030.1	100.0



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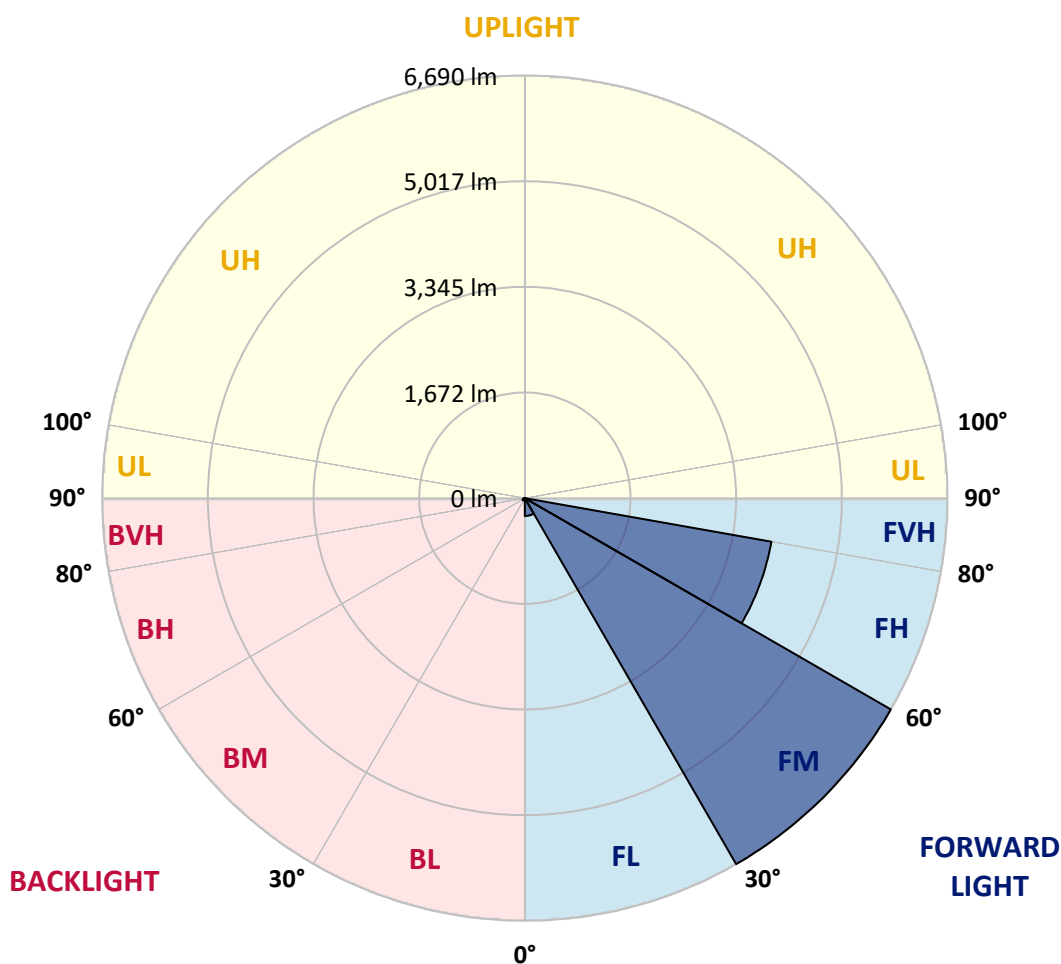
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.4	2.6			
FM	(30°-60°)	6689.5	60.6			
FH	(60°-80°)	3962.9	35.9			G2/5000
FVH	(80°-90°)	19.9	0.2			G1/100
BL	(0°-30°)	7.4	0.1	B0/110		
BM	(30°-60°)	41.2	0.4	B0/220		
BH	(60°-80°)	25.7	0.2	B0/110		G0/110
BVH	(80°-90°)	1.0	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°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
2.5°	62.5	62.5	60.0	56.7	53.3	50.0	49.2	47.5	46.7	45.8
5°	65.0	65.0	64.2	61.7	58.3	55.8	55.8	53.3	51.7	50.0
7.5°	66.7	67.5	69.2	68.3	66.7	64.2	64.2	62.5	60.0	55.8
10°	69.2	71.7	75.0	76.7	77.5	77.5	76.7	75.8	71.7	65.8
12.5°	71.7	76.7	85.0	93.3	98.3	105.0	104.2	102.5	91.7	79.2
15°	76.7	84.2	101.7	125.8	163.3	186.6	195.8	187.5	151.6	106.7
17.5°	82.5	95.0	147.5	263.3	431.6	511.6	559.9	520.8	345.0	202.5
20°	88.3	115.8	274.1	682.4	1119.9	1381.5	1454.0	1340.7	860.7	385.8
22.5°	98.3	162.5	555.8	1410.7	2413.0	2805.5	2879.6	2517.2	1625.6	761.6
25°	119.2	235.8	958.2	2298.9	3601.2	4263.6	4232.8	3757.9	2637.2	1216.5
27.5°	149.1	343.3	1449.0	3266.3	4739.4	5323.5	5393.5	4806.1	3515.4	1788.9
30°	192.5	475.8	1975.6	4041.2	5651.8	6283.4	6295.0	5687.6	4301.1	2291.4
32.5°	234.1	600.8	2436.4	4790.2	6550.8	7243.3	7294.9	6547.5	4887.7	2814.6
35°	265.8	682.4	2903.0	5448.5	7457.4	8411.4	8408.1	7520.7	5582.6	3282.1
37.5°	268.3	764.1	3325.4	6121.7	8605.6	9673.8	9779.6	8801.4	6422.5	3860.3
40°	262.5	855.7	3860.3	7171.6	10674.5	12313.5	12406.8	11173.6	8107.3	4850.2
42.5°	269.1	1014.9	4728.6	9110.5	14109.9	16463.8	16643.7	15347.2	11204.4	6870.0
45°	304.1	1314.0	6547.5	12354.3	19006.8	21876.4	21816.4	19949.2	14808.1	9944.6
47.5°	419.9	2046.4	9243.8	15511.4	22136.4	24691.9	24743.6	22461.4	16911.2	12308.5
50°	645.8	3131.3	11509.4	17180.3	23482.1	26045.9	25997.6	23360.4	17710.3	13472.5
52.5°	839.9	3916.2	12645.9	17766.1	23654.5	26715.0	26711.7	23597.0	17834.4	13572.5
55°	888.2	3975.3	12655.1	17797.8	24041.2	27590.7	27700.7	24179.5	17995.2	13135.9
57.5°	869.1	3519.6	12126.8	17981.1	24729.4	28268.1	28274.0	24743.6	18403.5	12868.4
58°	852.4	3447.9	12020.2	18085.2	24847.7	28296.5	28282.3	24769.4	18736.0	12858.4
60°	759.1	2993.8	11604.4	18351.0	24671.9	27714.9	27582.4	24205.3	18686.8	12755.9
62.5°	596.6	2335.5	11195.3	18043.6	22787.1	24899.4	24954.4	21429.8	17035.4	12158.5
65°	474.9	1740.6	10342.0	15827.2	18764.3	20447.4	20652.4	17426.1	14219.1	10295.4
67.5°	378.3	1258.2	8675.6	12600.9	14848.1	17065.4	17214.5	14630.7	11016.1	7888.2
70°	307.5	850.7	5988.4	9215.5	12246.8	14739.8	14749.0	12154.3	8222.3	5168.5
72.5°	272.5	589.1	3476.2	6720.8	9930.4	12011.0	11768.5	9862.9	6319.2	3061.3
75°	235.8	390.8	1704.8	4108.7	6020.9	6061.7	6154.2	4575.3	3158.8	1455.7
77.5°	194.1	277.5	671.6	1122.4	1805.6	2311.4	2397.2	1816.4	1050.7	358.3
80°	133.3	131.7	180.8	344.1	516.6	647.4	604.1	467.4	275.0	137.5
82.5°	57.5	62.5	81.7	98.3	80.0	77.5	74.2	47.5	36.7	28.3
85°	18.3	16.7	17.5	17.5	14.2	10.8	10.8	5.0	0.0	0.0
87.5°	9.2	7.5	7.5	6.7	4.2	1.7	0.8	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°
48.3	0°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
45.0	2.5°	44.2	44.2	42.5	40.8	40.0	38.3	37.5	36.7	35.8	35.0
48.3	5°	46.7	45.8	43.3	40.8	38.3	35.8	34.2	32.5	30.8	30.0
53.3	7.5°	50.8	49.2	44.2	40.0	36.7	33.3	31.7	29.2	27.5	25.0
59.2	10°	55.8	52.5	45.8	40.8	35.8	31.7	29.2	26.7	24.2	20.8
67.5	12.5°	62.5	56.7	48.3	40.0	34.2	29.2	26.7	23.3	20.8	18.3
78.3	15°	68.3	60.8	49.2	40.0	32.5	26.7	23.3	20.0	17.5	14.2
98.3	17.5°	76.7	64.2	48.3	37.5	30.0	23.3	20.0	17.5	13.3	8.3
145.8	20°	90.8	66.7	46.7	35.0	25.8	19.2	15.0	11.7	5.8	1.7
219.1	22.5°	113.3	73.3	45.0	31.7	22.5	15.0	10.0	4.2	0.0	0.0
333.3	25°	156.6	85.0	45.0	30.0	20.0	10.8	3.3	0.0	0.0	0.0
473.3	27.5°	208.3	100.8	45.0	25.8	15.8	5.8	0.0	0.0	0.0	0.0
644.9	30°	260.8	118.3	45.0	22.5	12.5	0.8	0.0	0.0	0.0	0.0
794.1	32.5°	310.8	133.3	45.8	19.2	8.3	0.0	0.0	0.0	0.0	0.0
1000.7	35°	361.6	135.8	45.0	16.7	5.0	0.0	0.0	0.0	0.0	0.0
1254.0	37.5°	426.6	130.8	42.5	15.0	2.5	0.0	0.0	0.0	0.0	0.0
1649.8	40°	524.9	133.3	40.0	14.2	0.8	0.0	0.0	0.0	0.0	0.0
2355.5	42.5°	706.6	144.1	36.7	14.2	0.0	0.0	0.0	0.0	0.0	0.0
3752.0	45°	1221.5	193.3	33.3	15.0	0.0	0.0	0.0	0.0	0.0	0.0
5632.6	47.5°	2020.6	347.5	32.5	15.0	0.0	0.0	0.0	0.0	0.0	0.0
6785.0	50°	2578.8	437.4	34.2	15.8	0.0	0.0	0.0	0.0	0.0	0.0
6929.1	52.5°	2574.7	487.4	35.8	16.7	3.3	0.0	0.0	0.0	0.0	0.0
6386.7	55°	2288.9	496.6	38.3	18.3	10.8	0.0	0.0	0.0	0.0	0.0
5488.5	57.5°	1913.1	453.3	44.2	22.5	20.0	0.0	0.0	0.0	0.0	0.0
5347.7	58°	1846.4	433.3	45.8	23.3	21.7	0.0	0.0	0.0	0.0	0.0
4638.6	60°	1513.1	353.3	58.3	29.2	29.2	0.0	0.0	0.0	0.0	0.0
3802.9	62.5°	1044.9	308.3	66.7	37.5	30.0	0.0	0.0	0.0	0.0	0.0
2803.8	65°	739.1	278.3	72.5	40.0	24.2	0.0	0.0	0.0	0.0	0.0
1992.3	67.5°	552.4	256.6	80.0	40.8	12.5	0.0	0.0	0.0	0.0	0.0
1249.8	70°	423.3	240.8	98.3	43.3	3.3	0.0	0.0	0.0	0.0	0.0
744.9	72.5°	345.0	222.5	119.2	45.0	0.0	0.0	0.0	0.0	0.0	0.0
446.6	75°	285.8	200.8	115.0	49.2	0.0	0.0	0.0	0.0	0.0	0.0
238.3	77.5°	190.0	155.8	105.0	49.2	0.0	0.0	0.0	0.0	0.0	0.0
85.0	80°	66.7	61.7	81.7	43.3	0.0	0.0	0.0	0.0	0.0	0.0
17.5	82.5°	10.0	8.3	11.7	15.0	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	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°
48.3	0°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
34.2	2.5°	34.2	34.2	33.3	34.2	34.2	35.8	40.0	45.8	52.5	55.0
29.2	5°	28.3	27.5	26.7	26.7	26.7	29.2	32.5	39.2	46.7	50.0
24.2	7.5°	23.3	22.5	21.7	20.8	20.8	22.5	26.7	34.2	41.7	45.0
20.0	10°	19.2	17.5	16.7	15.8	15.8	17.5	21.7	29.2	37.5	40.8
16.7	12.5°	15.8	13.3	11.7	10.8	10.0	12.5	16.7	23.3	32.5	36.7
12.5	15°	10.8	8.3	5.8	5.0	4.2	6.7	10.8	18.3	27.5	32.5
6.7	17.5°	5.8	2.5	0.8	0.0	0.0	1.7	5.0	13.3	22.5	26.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	16.7	20.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	10.0	14.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	7.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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	2.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.7
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°
48.3	0°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
57.5	2.5°	59.2	58.3	56.7	55.0	55.0	55.0	57.5	60.0	62.5	62.5
51.7	5°	55.0	55.0	54.2	52.5	52.5	53.3	56.7	60.8	64.2	65.0
47.5	7.5°	50.8	52.5	50.8	50.0	50.8	51.7	55.0	60.0	65.0	66.7
44.2	10°	48.3	49.2	49.2	48.3	48.3	50.0	53.3	60.0	66.7	69.2
40.0	12.5°	45.0	46.7	45.8	45.8	45.8	47.5	51.7	59.2	68.3	71.7
35.8	15°	41.7	44.2	44.2	43.3	43.3	44.2	50.0	58.3	70.8	76.7
30.8	17.5°	38.3	40.8	41.7	40.0	40.0	41.7	47.5	58.3	72.5	82.5
25.0	20°	31.7	35.8	38.3	35.8	35.8	37.5	43.3	55.0	73.3	88.3
18.3	22.5°	25.0	29.2	32.5	31.7	31.7	32.5	40.0	52.5	74.2	98.3
10.8	25°	18.3	22.5	25.0	26.7	26.7	29.2	36.7	50.8	77.5	119.2
5.0	27.5°	10.8	15.8	19.2	20.8	21.7	25.0	34.2	49.2	83.3	149.1
0.0	30°	5.0	9.2	13.3	16.7	16.7	22.5	31.7	47.5	90.8	192.5
0.0	32.5°	0.0	4.2	6.7	11.7	12.5	18.3	29.2	45.8	101.7	234.1
0.0	35°	0.0	0.0	3.3	9.2	9.2	15.0	26.7	44.2	118.3	265.8
0.0	37.5°	0.0	0.0	0.0	6.7	7.5	13.3	25.8	43.3	121.7	268.3
0.0	40°	0.0	0.0	0.0	5.0	5.8	12.5	25.8	44.2	110.0	262.5
0.0	42.5°	0.0	0.0	0.0	3.3	4.2	12.5	25.8	45.8	99.2	269.1
0.0	45°	0.0	0.0	0.0	2.5	3.3	13.3	25.0	45.0	93.3	304.1
0.0	47.5°	0.0	0.0	0.0	3.3	5.0	13.3	24.2	44.2	94.2	419.9
0.0	50°	0.0	0.0	0.0	4.2	5.8	13.3	25.0	42.5	103.3	645.8
0.0	52.5°	0.0	0.0	0.0	3.3	5.0	15.0	27.5	41.7	112.5	839.9
0.0	55°	0.0	0.0	0.0	0.8	2.5	19.2	30.0	41.7	126.7	888.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	21.7	34.2	44.2	150.0	869.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	21.7	35.0	44.2	151.6	852.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	21.7	38.3	49.2	163.3	759.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	18.3	45.8	61.7	170.0	596.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	15.0	54.2	67.5	175.0	474.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	14.2	55.8	68.3	177.5	378.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	15.0	55.0	73.3	185.8	307.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	16.7	50.0	80.8	185.8	272.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	17.5	46.7	90.8	169.1	235.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	16.7	45.8	105.8	150.8	194.1
0.0	80°	1.7	2.5	2.5	1.7	1.7	14.2	45.0	107.5	128.3	133.3
0.8	82.5°	5.0	6.7	5.8	4.2	4.2	12.5	40.0	90.0	66.7	57.5
5.0	85°	9.2	10.8	10.8	9.2	9.2	11.7	25.0	32.5	22.5	18.3
9.2	87.5°	12.5	14.2	14.2	12.5	12.5	11.7	10.8	10.0	9.2	9.2
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

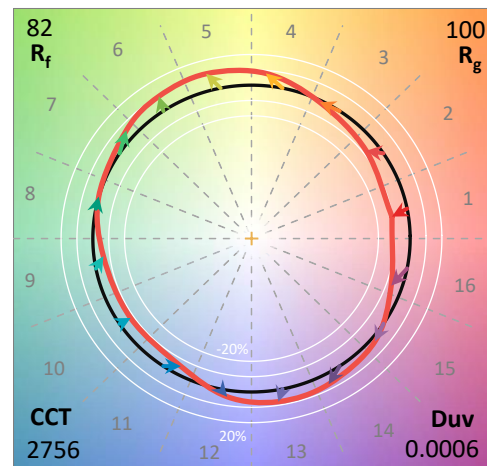
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

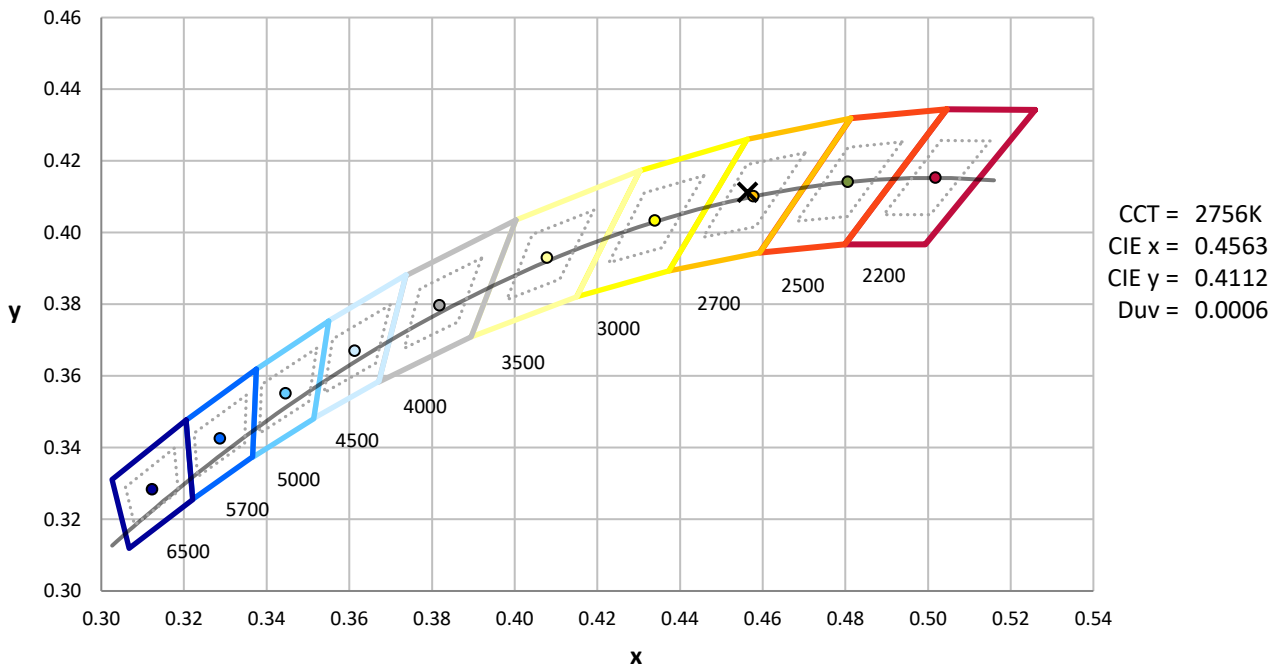
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



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



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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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



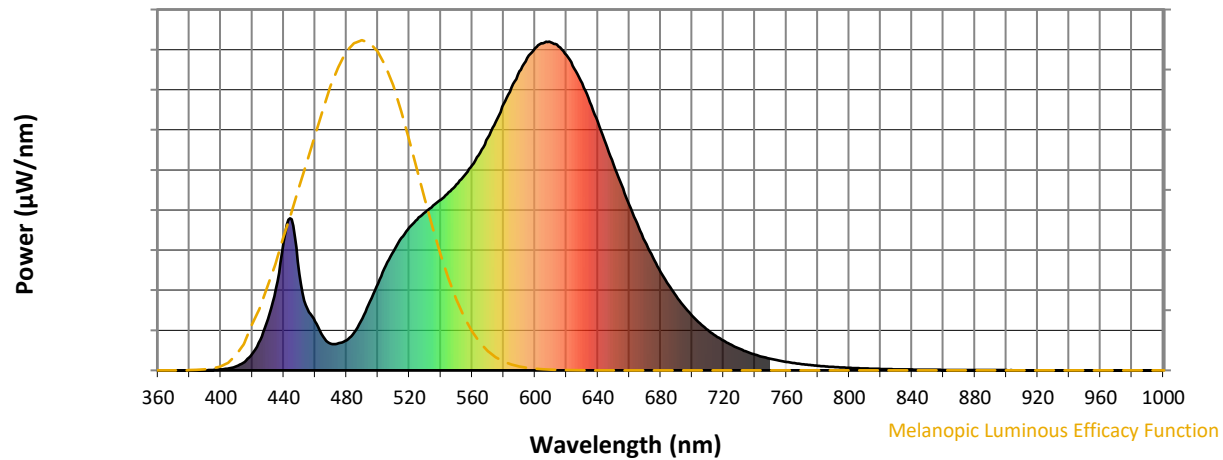
Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.16

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

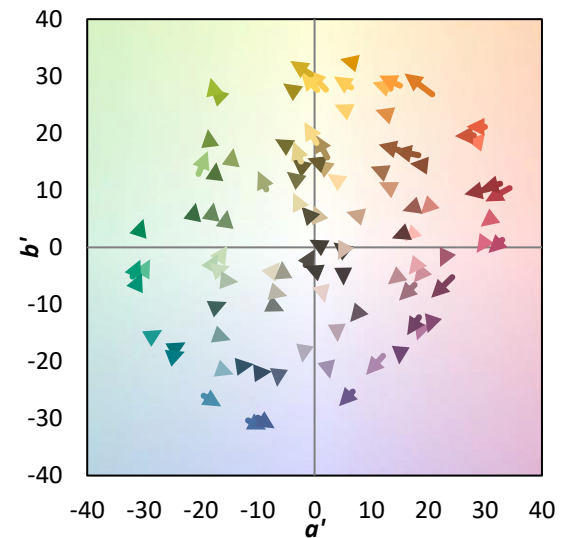
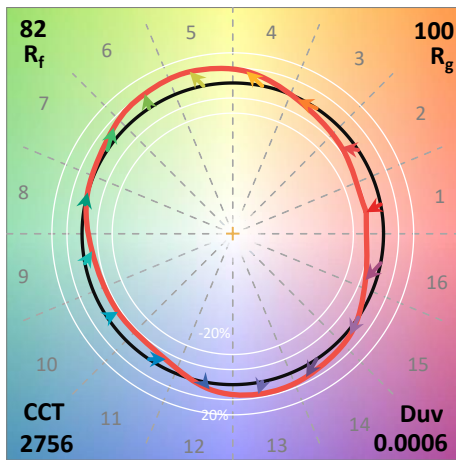
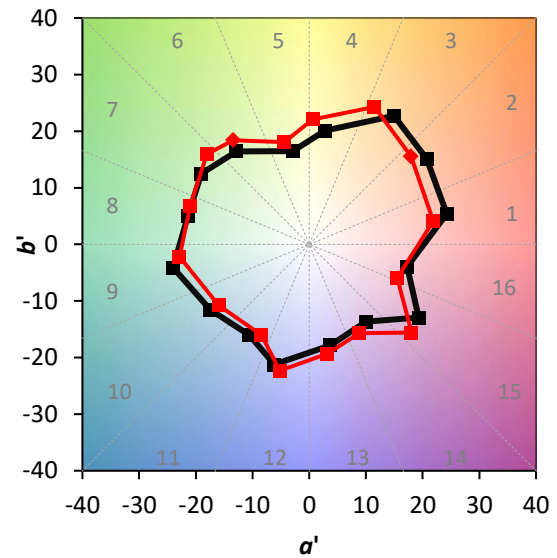
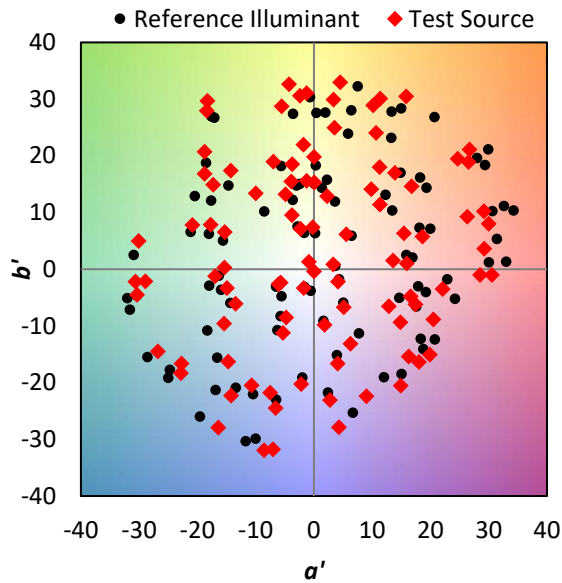
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

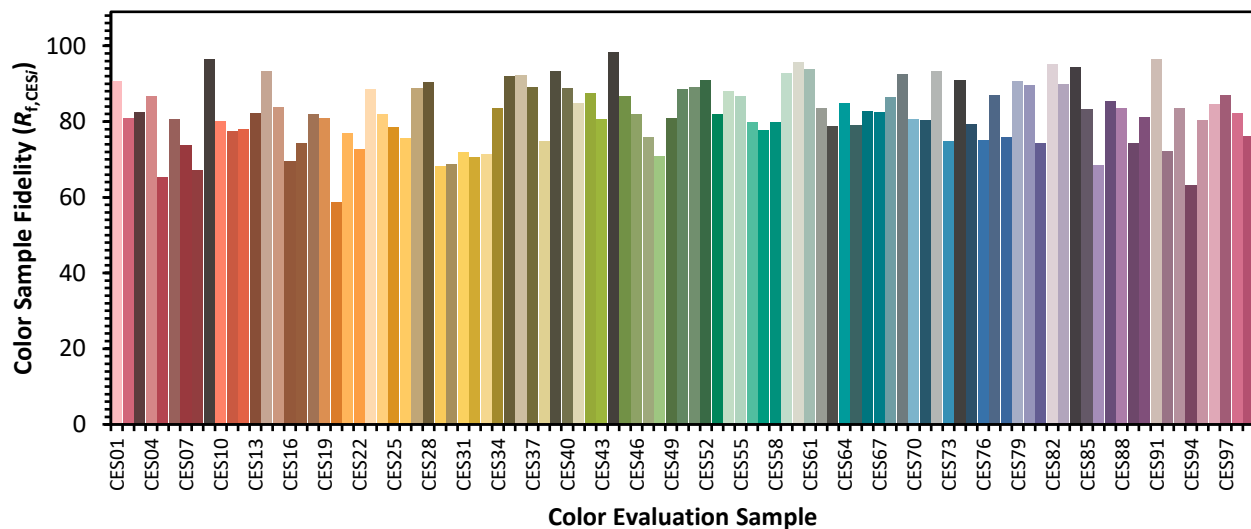


Color Vector Graphics

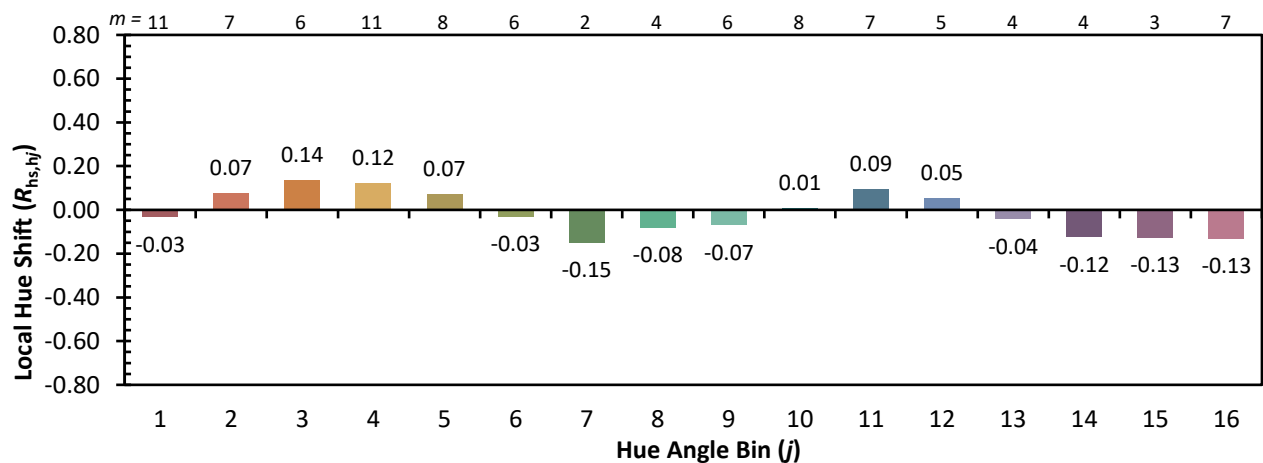


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)