

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: P1065385

Luminaire Tested: **GLAN-SA1A-830-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065385
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1A-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 1xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2990.1 lumens
Efficiency: N/A
Efficacy: 103.1 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

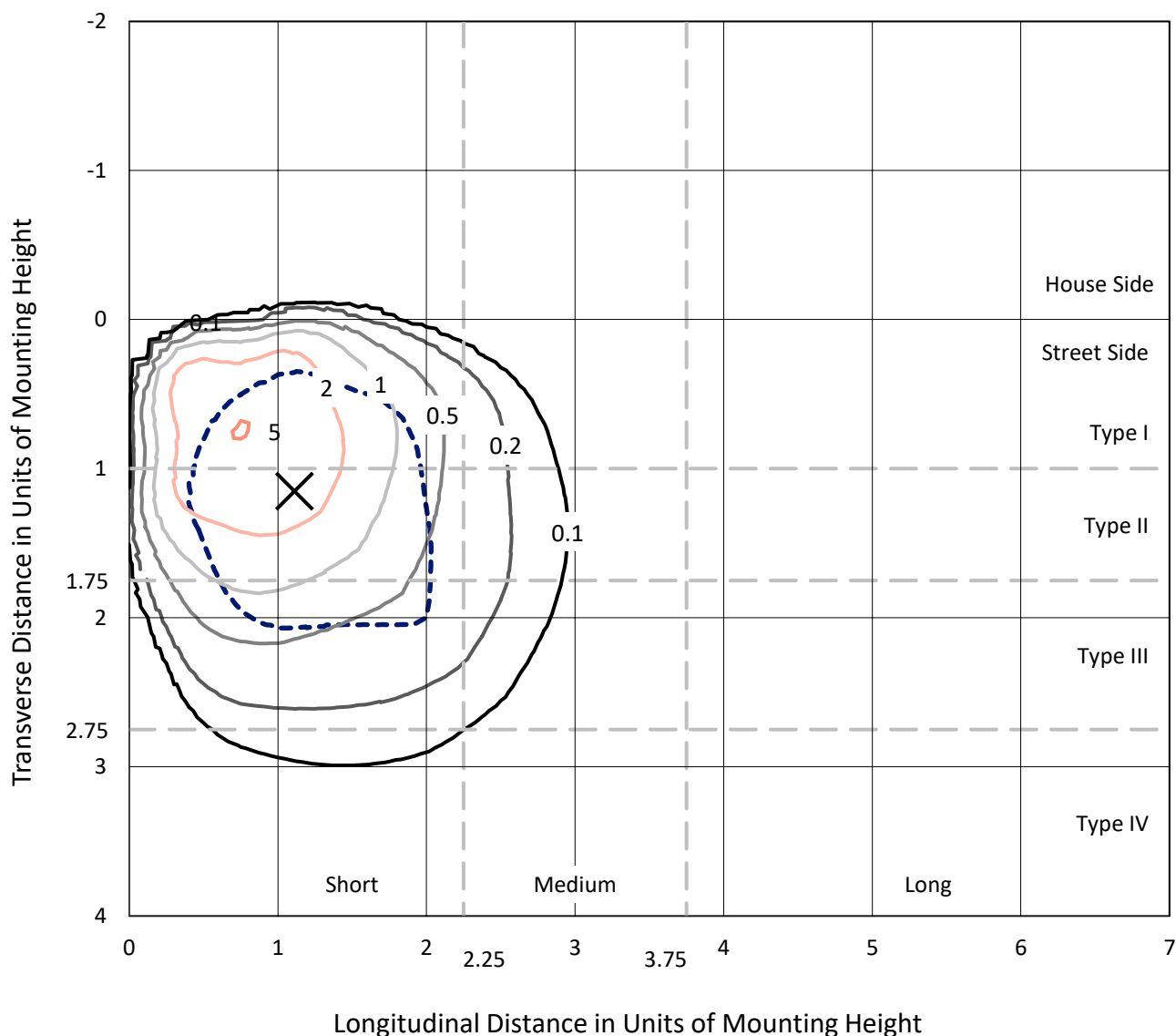
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

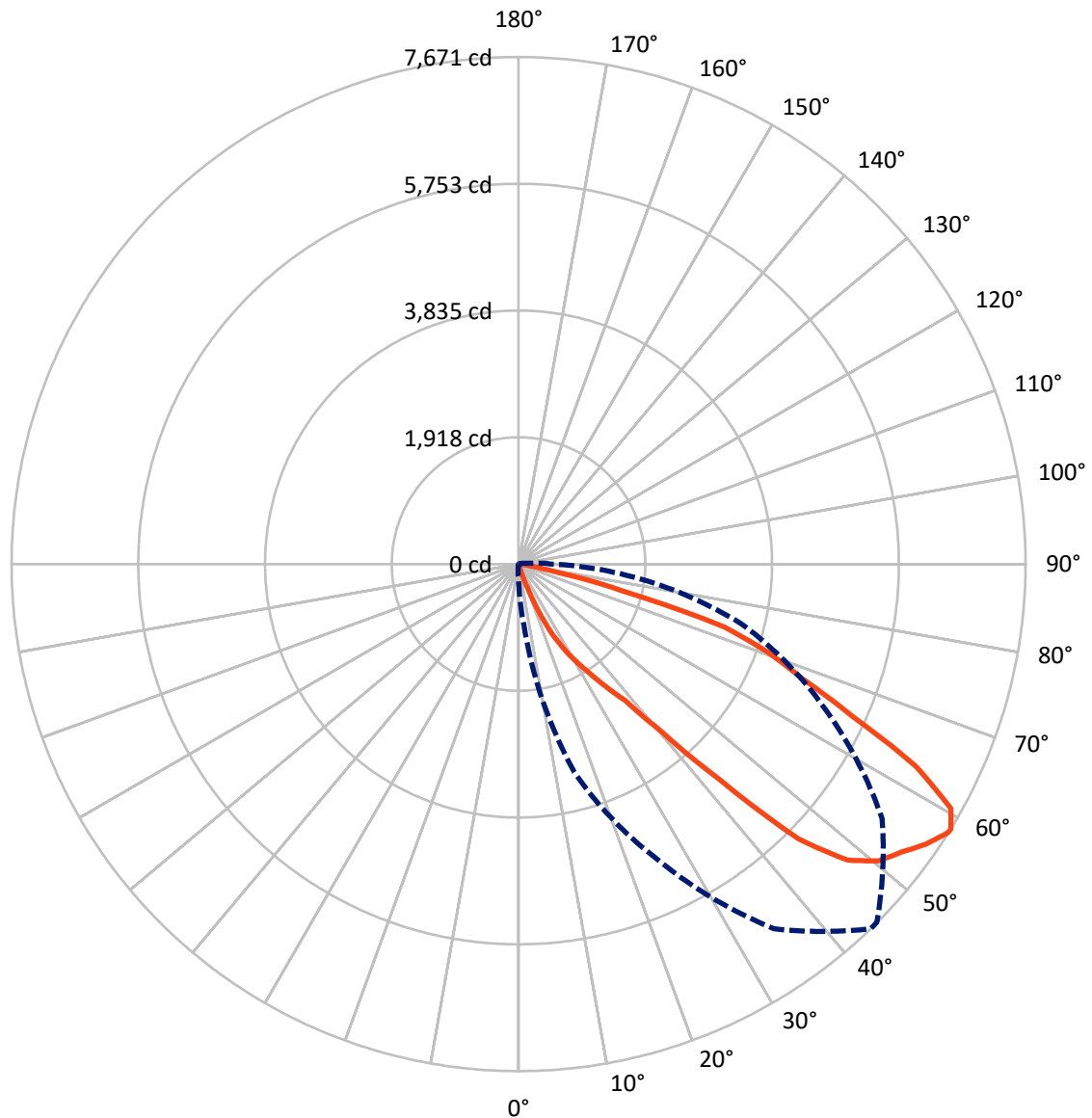


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20.4	0.0	20.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	2969.7	0.0	2969.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	2990.1	0.0	2990.1
	% 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°	70.8	2.4
30°-40°	209.5	7.0
40°-50°	624.4	20.9
50°-60°	990.8	33.1
60°-70°	826.4	27.6
70°-80°	254.9	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°	2990.1	100.0
0°-180°	2990.1	100.0



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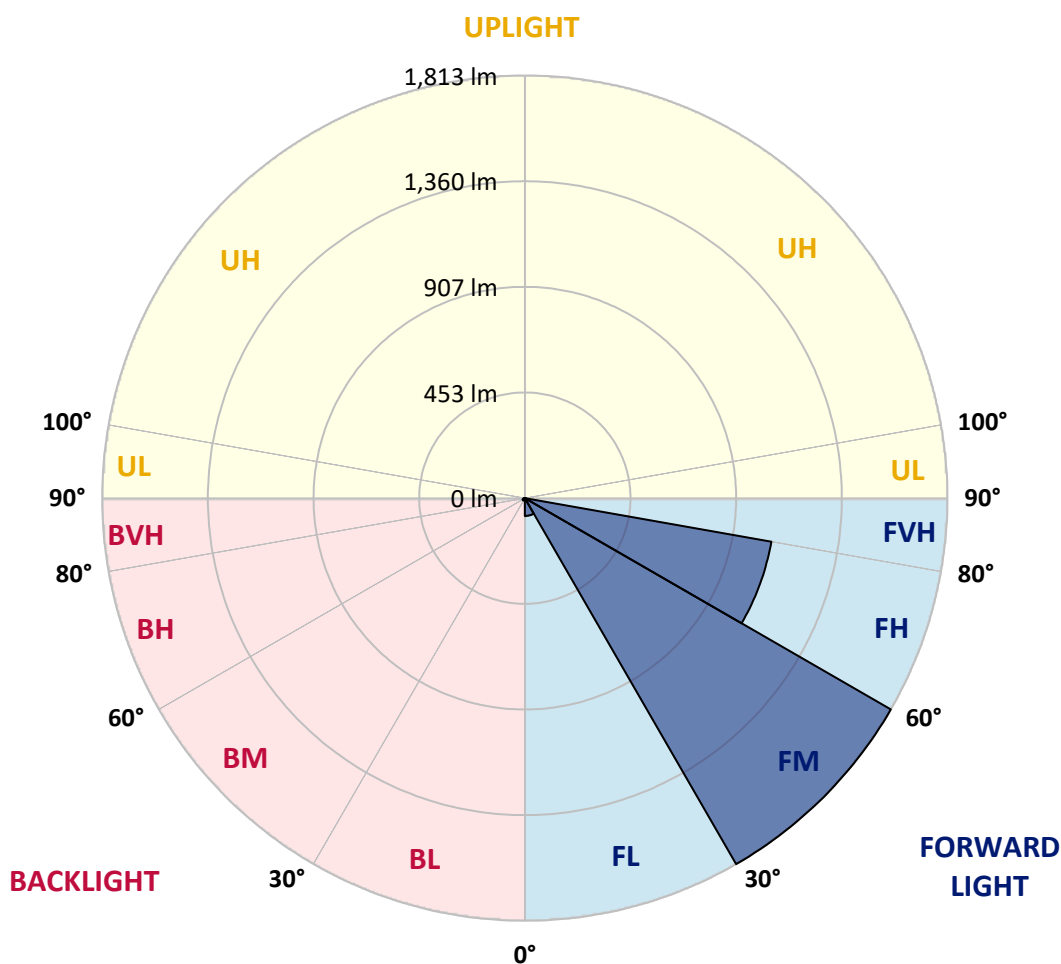
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	76.6	2.6			
FM	(30°-60°)	1813.5	60.6			
FH	(60°-80°)	1074.3	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°)	11.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
2.5°	16.9	16.9	16.3	15.4	14.5	13.6	13.3	12.9	12.6	12.4
5°	17.6	17.6	17.4	16.7	15.8	15.1	15.1	14.5	14.0	13.6
7.5°	18.1	18.3	18.7	18.5	18.1	17.4	17.4	16.9	16.3	15.1
10°	18.7	19.4	20.3	20.8	21.0	21.0	20.8	20.6	19.4	17.8
12.5°	19.4	20.8	23.0	25.3	26.7	28.5	28.2	27.8	24.8	21.5
15°	20.8	22.8	27.6	34.1	44.3	50.6	53.1	50.8	41.1	28.9
17.5°	22.4	25.8	40.0	71.4	117.0	138.7	151.8	141.2	93.5	54.9
20°	23.9	31.4	74.3	185.0	303.6	374.5	394.2	363.4	233.3	104.6
22.5°	26.7	44.0	150.7	382.4	654.1	760.5	780.6	682.4	440.7	206.5
25°	32.3	63.9	259.8	623.2	976.3	1155.8	1147.5	1018.7	714.9	329.8
27.5°	40.4	93.1	392.8	885.4	1284.8	1443.1	1462.1	1302.9	953.0	485.0
30°	52.2	129.0	535.6	1095.5	1532.1	1703.4	1706.5	1541.9	1166.0	621.2
32.5°	63.5	162.9	660.5	1298.6	1775.9	1963.6	1977.6	1775.0	1325.0	763.0
35°	72.1	185.0	787.0	1477.0	2021.6	2280.3	2279.4	2038.8	1513.4	889.7
37.5°	72.7	207.1	901.5	1659.5	2332.9	2622.5	2651.2	2386.0	1741.1	1046.5
40°	71.2	232.0	1046.5	1944.1	2893.7	3338.1	3363.4	3029.1	2197.8	1314.8
42.5°	73.0	275.1	1281.9	2469.8	3825.1	4463.2	4512.0	4160.5	3037.4	1862.4
45°	82.4	356.2	1775.0	3349.1	5152.5	5930.5	5914.2	5408.0	4014.3	2695.9
47.5°	113.8	554.8	2505.9	4205.0	6001.0	6693.7	6707.7	6089.0	4584.5	3336.7
50°	175.1	848.9	3120.1	4657.4	6365.8	7060.8	7047.7	6332.8	4801.1	3652.3
52.5°	227.7	1061.6	3428.2	4816.2	6412.5	7242.2	7241.3	6396.9	4834.7	3679.4
55°	240.8	1077.7	3430.7	4824.8	6517.3	7479.6	7509.4	6554.8	4878.3	3561.0
57.5°	235.6	954.1	3287.5	4874.5	6703.9	7663.2	7664.8	6707.7	4989.0	3488.5
58°	231.1	934.7	3258.5	4902.7	6736.0	7670.9	7667.0	6714.7	5079.1	3485.8
60°	205.8	811.6	3145.8	4974.8	6688.3	7513.2	7477.3	6561.8	5065.8	3458.0
62.5°	161.7	633.1	3034.9	4891.4	6177.4	6750.0	6764.9	5809.4	4618.1	3296.0
65°	128.8	471.9	2803.6	4290.6	5086.8	5543.1	5598.7	4724.1	3854.6	2791.0
67.5°	102.5	341.1	2351.9	3416.0	4025.2	4626.2	4666.7	3966.2	2986.4	2138.4
70°	83.3	230.6	1623.4	2498.2	3320.0	3995.8	3998.3	3294.9	2229.0	1401.1
72.5°	73.9	159.7	942.4	1821.9	2692.0	3256.1	3190.3	2673.7	1713.1	829.9
75°	63.9	105.9	462.2	1113.8	1632.2	1643.3	1668.3	1240.3	856.3	394.6
77.5°	52.6	75.2	182.1	304.3	489.5	626.6	649.9	492.4	284.8	97.1
80°	36.1	35.7	49.0	93.3	140.0	175.5	163.8	126.7	74.5	37.3
82.5°	15.6	16.9	22.1	26.7	21.7	21.0	20.1	12.9	9.9	7.7
85°	5.0	4.5	4.7	4.7	3.8	2.9	2.9	1.4	0.0	0.0
87.5°	2.5	2.0	2.0	1.8	1.1	0.5	0.2	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°
13.1	0°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
12.2	2.5°	12.0	12.0	11.5	11.1	10.8	10.4	10.2	9.9	9.7	9.5
13.1	5°	12.6	12.4	11.7	11.1	10.4	9.7	9.3	8.8	8.4	8.1
14.5	7.5°	13.8	13.3	12.0	10.8	9.9	9.0	8.6	7.9	7.5	6.8
16.0	10°	15.1	14.2	12.4	11.1	9.7	8.6	7.9	7.2	6.6	5.6
18.3	12.5°	16.9	15.4	13.1	10.8	9.3	7.9	7.2	6.3	5.6	5.0
21.2	15°	18.5	16.5	13.3	10.8	8.8	7.2	6.3	5.4	4.7	3.8
26.7	17.5°	20.8	17.4	13.1	10.2	8.1	6.3	5.4	4.7	3.6	2.3
39.5	20°	24.6	18.1	12.6	9.5	7.0	5.2	4.1	3.2	1.6	0.5
59.4	22.5°	30.7	19.9	12.2	8.6	6.1	4.1	2.7	1.1	0.0	0.0
90.4	25°	42.5	23.0	12.2	8.1	5.4	2.9	0.9	0.0	0.0	0.0
128.3	27.5°	56.5	27.3	12.2	7.0	4.3	1.6	0.0	0.0	0.0	0.0
174.8	30°	70.7	32.1	12.2	6.1	3.4	0.2	0.0	0.0	0.0	0.0
215.3	32.5°	84.3	36.1	12.4	5.2	2.3	0.0	0.0	0.0	0.0	0.0
271.3	35°	98.0	36.8	12.2	4.5	1.4	0.0	0.0	0.0	0.0	0.0
339.9	37.5°	115.7	35.5	11.5	4.1	0.7	0.0	0.0	0.0	0.0	0.0
447.2	40°	142.3	36.1	10.8	3.8	0.2	0.0	0.0	0.0	0.0	0.0
638.6	42.5°	191.5	39.1	9.9	3.8	0.0	0.0	0.0	0.0	0.0	0.0
1017.1	45°	331.1	52.4	9.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0
1526.9	47.5°	547.8	94.2	8.8	4.1	0.0	0.0	0.0	0.0	0.0	0.0
1839.3	50°	699.1	118.6	9.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
1878.4	52.5°	698.0	132.1	9.7	4.5	0.9	0.0	0.0	0.0	0.0	0.0
1731.4	55°	620.5	134.6	10.4	5.0	2.9	0.0	0.0	0.0	0.0	0.0
1487.9	57.5°	518.6	122.9	12.0	6.1	5.4	0.0	0.0	0.0	0.0	0.0
1449.7	58°	500.6	117.5	12.4	6.3	5.9	0.0	0.0	0.0	0.0	0.0
1257.5	60°	410.2	95.8	15.8	7.9	7.9	0.0	0.0	0.0	0.0	0.0
1030.9	62.5°	283.3	83.6	18.1	10.2	8.1	0.0	0.0	0.0	0.0	0.0
760.1	65°	200.4	75.4	19.7	10.8	6.6	0.0	0.0	0.0	0.0	0.0
540.1	67.5°	149.8	69.6	21.7	11.1	3.4	0.0	0.0	0.0	0.0	0.0
338.8	70°	114.7	65.3	26.7	11.7	0.9	0.0	0.0	0.0	0.0	0.0
201.9	72.5°	93.5	60.3	32.3	12.2	0.0	0.0	0.0	0.0	0.0	0.0
121.1	75°	77.5	54.4	31.2	13.3	0.0	0.0	0.0	0.0	0.0	0.0
64.6	77.5°	51.5	42.2	28.5	13.3	0.0	0.0	0.0	0.0	0.0	0.0
23.0	80°	18.1	16.7	22.1	11.7	0.0	0.0	0.0	0.0	0.0	0.0
4.7	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
13.1	0°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
9.3	2.5°	9.3	9.3	9.0	9.3	9.3	9.7	10.8	12.4	14.2	14.9
7.9	5°	7.7	7.5	7.2	7.2	7.2	7.9	8.8	10.6	12.6	13.6
6.6	7.5°	6.3	6.1	5.9	5.6	5.6	6.1	7.2	9.3	11.3	12.2
5.4	10°	5.2	4.7	4.5	4.3	4.3	4.7	5.9	7.9	10.2	11.1
4.5	12.5°	4.3	3.6	3.2	2.9	2.7	3.4	4.5	6.3	8.8	9.9
3.4	15°	2.9	2.3	1.6	1.4	1.1	1.8	2.9	5.0	7.5	8.8
1.8	17.5°	1.6	0.7	0.2	0.0	0.0	0.5	1.4	3.6	6.1	7.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.5	5.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.7	3.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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	0.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
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°
13.1	0°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
15.6	2.5°	16.0	15.8	15.4	14.9	14.9	14.9	15.6	16.3	16.9	16.9
14.0	5°	14.9	14.9	14.7	14.2	14.2	14.5	15.4	16.5	17.4	17.6
12.9	7.5°	13.8	14.2	13.8	13.6	13.8	14.0	14.9	16.3	17.6	18.1
12.0	10°	13.1	13.3	13.3	13.1	13.1	13.6	14.5	16.3	18.1	18.7
10.8	12.5°	12.2	12.6	12.4	12.4	12.4	12.9	14.0	16.0	18.5	19.4
9.7	15°	11.3	12.0	12.0	11.7	11.7	12.0	13.6	15.8	19.2	20.8
8.4	17.5°	10.4	11.1	11.3	10.8	10.8	11.3	12.9	15.8	19.7	22.4
6.8	20°	8.6	9.7	10.4	9.7	9.7	10.2	11.7	14.9	19.9	23.9
5.0	22.5°	6.8	7.9	8.8	8.6	8.6	8.8	10.8	14.2	20.1	26.7
2.9	25°	5.0	6.1	6.8	7.2	7.2	7.9	9.9	13.8	21.0	32.3
1.4	27.5°	2.9	4.3	5.2	5.6	5.9	6.8	9.3	13.3	22.6	40.4
0.0	30°	1.4	2.5	3.6	4.5	4.5	6.1	8.6	12.9	24.6	52.2
0.0	32.5°	0.0	1.1	1.8	3.2	3.4	5.0	7.9	12.4	27.6	63.5
0.0	35°	0.0	0.0	0.9	2.5	2.5	4.1	7.2	12.0	32.1	72.1
0.0	37.5°	0.0	0.0	0.0	1.8	2.0	3.6	7.0	11.7	33.0	72.7
0.0	40°	0.0	0.0	0.0	1.4	1.6	3.4	7.0	12.0	29.8	71.2
0.0	42.5°	0.0	0.0	0.0	0.9	1.1	3.4	7.0	12.4	26.9	73.0
0.0	45°	0.0	0.0	0.0	0.7	0.9	3.6	6.8	12.2	25.3	82.4
0.0	47.5°	0.0	0.0	0.0	0.9	1.4	3.6	6.6	12.0	25.5	113.8
0.0	50°	0.0	0.0	0.0	1.1	1.6	3.6	6.8	11.5	28.0	175.1
0.0	52.5°	0.0	0.0	0.0	0.9	1.4	4.1	7.5	11.3	30.5	227.7
0.0	55°	0.0	0.0	0.0	0.2	0.7	5.2	8.1	11.3	34.3	240.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	5.9	9.3	12.0	40.7	235.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	5.9	9.5	12.0	41.1	231.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	5.9	10.4	13.3	44.3	205.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	5.0	12.4	16.7	46.1	161.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	4.1	14.7	18.3	47.4	128.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	3.8	15.1	18.5	48.1	102.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	4.1	14.9	19.9	50.4	83.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	4.5	13.6	21.9	50.4	73.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	4.7	12.6	24.6	45.9	63.9
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	4.5	12.4	28.7	40.9	52.6
0.0	80°	0.5	0.7	0.7	0.5	0.5	3.8	12.2	29.1	34.8	36.1
0.2	82.5°	1.4	1.8	1.6	1.1	1.1	3.4	10.8	24.4	18.1	15.6
1.4	85°	2.5	2.9	2.9	2.5	2.5	3.2	6.8	8.8	6.1	5.0
2.5	87.5°	3.4	3.8	3.8	3.4	3.4	3.2	2.9	2.7	2.5	2.5
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

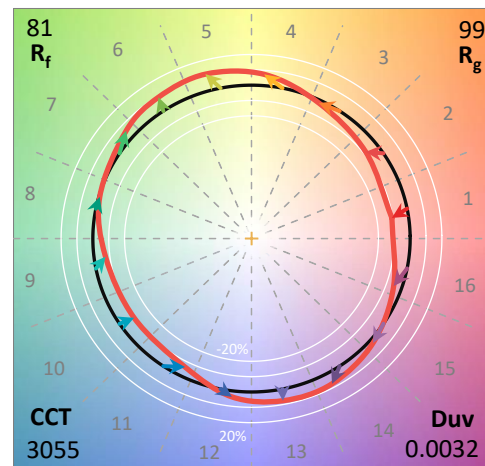
Test Information

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

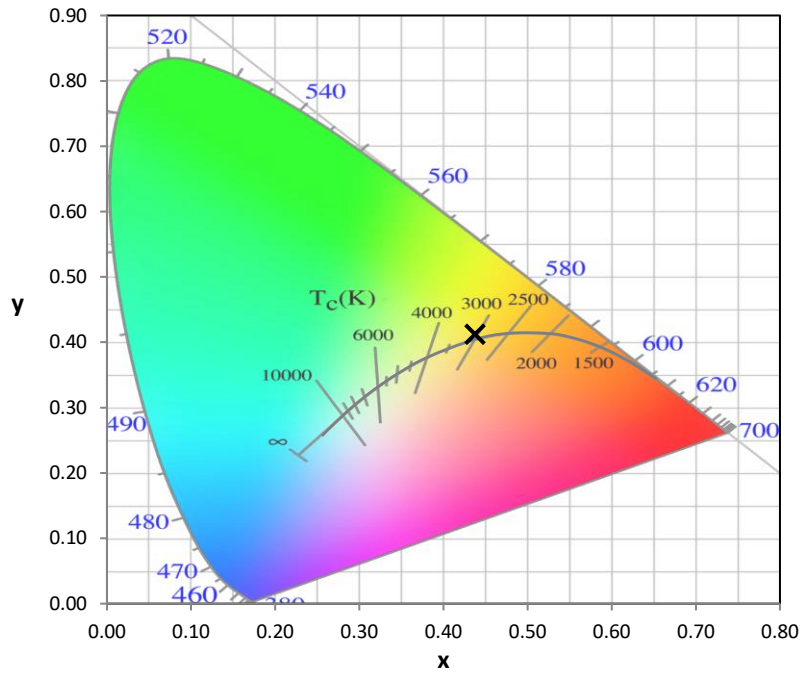
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

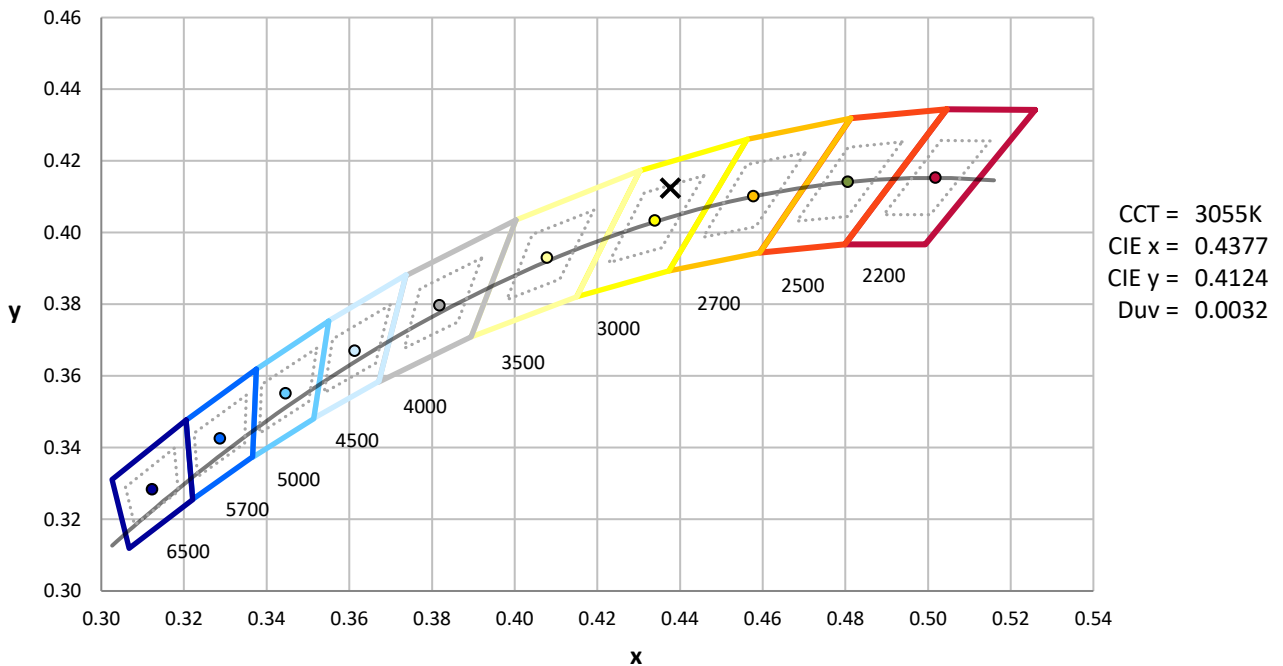
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

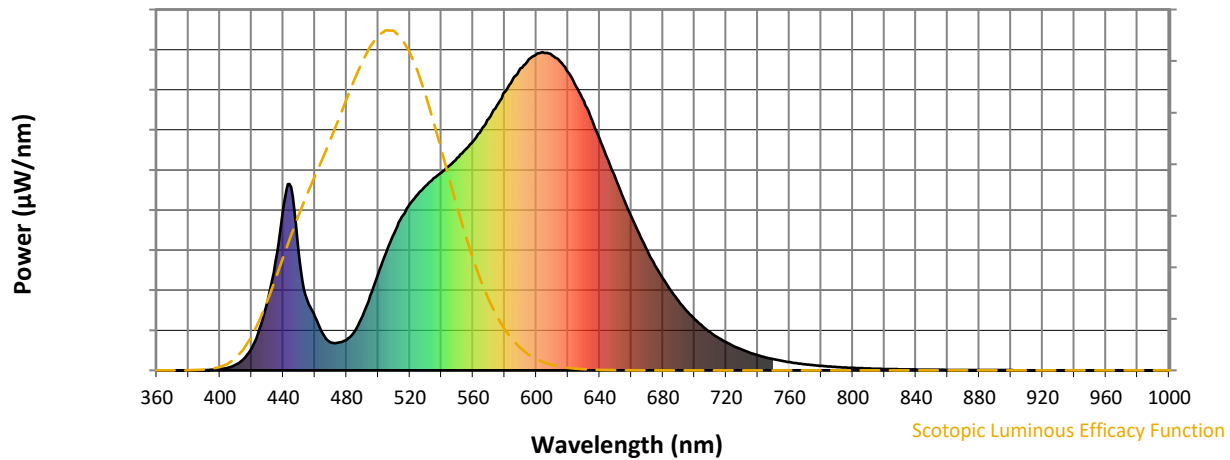


Photopic Lumens: NR

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	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

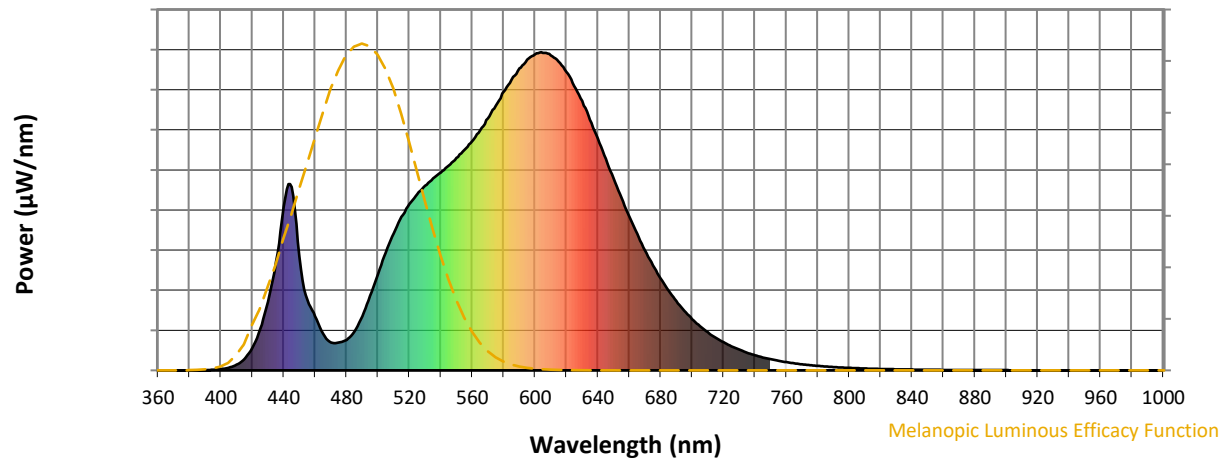
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.28

λ (nm)	Power 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	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			

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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

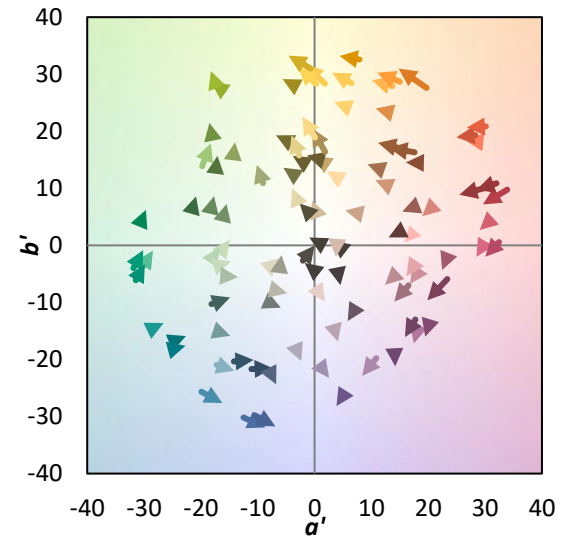
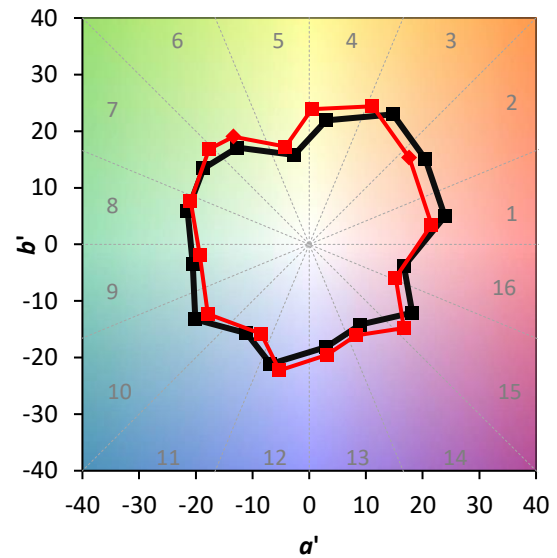
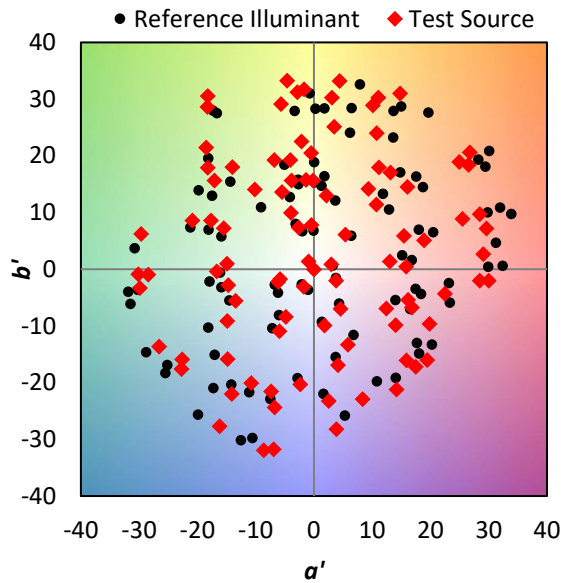
TM-30-18

Summary

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

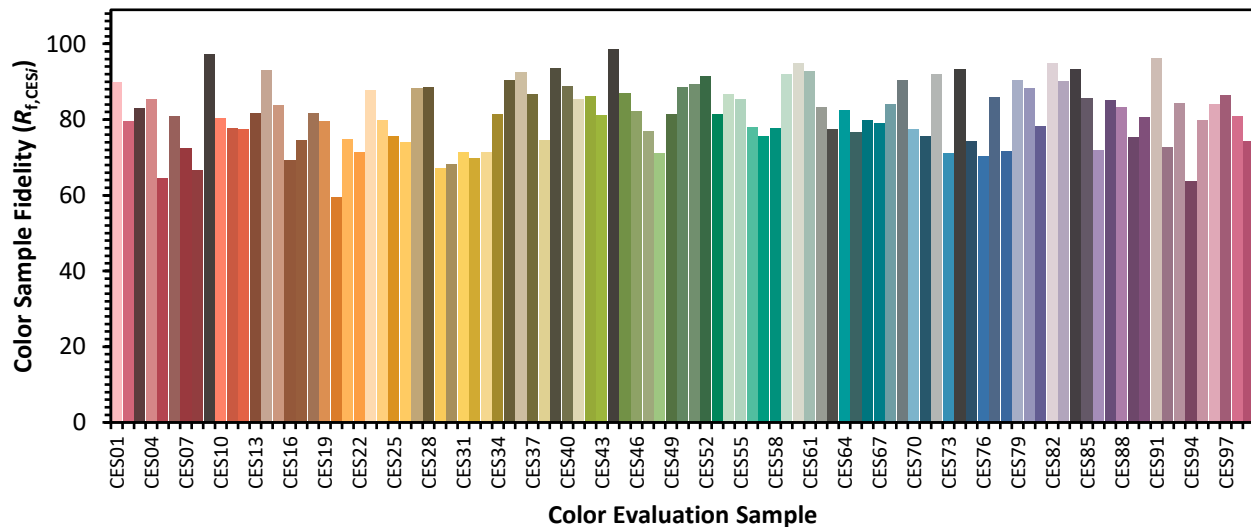


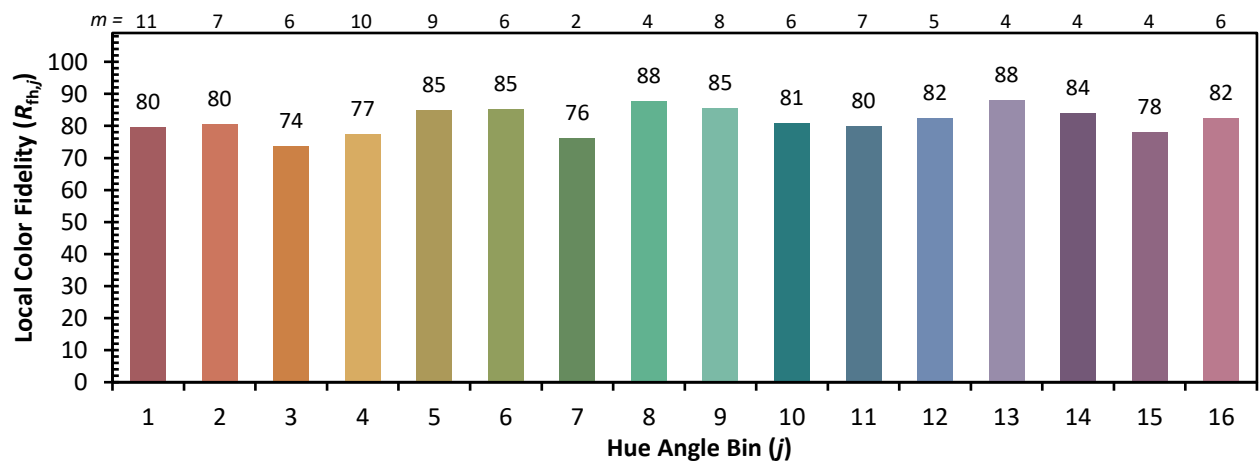
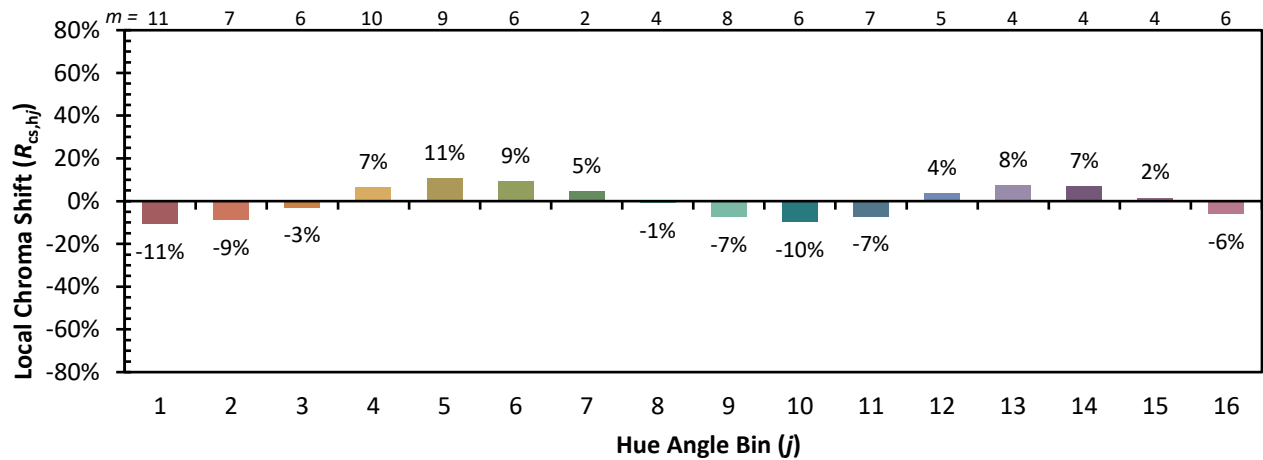
Color Vector Graphics



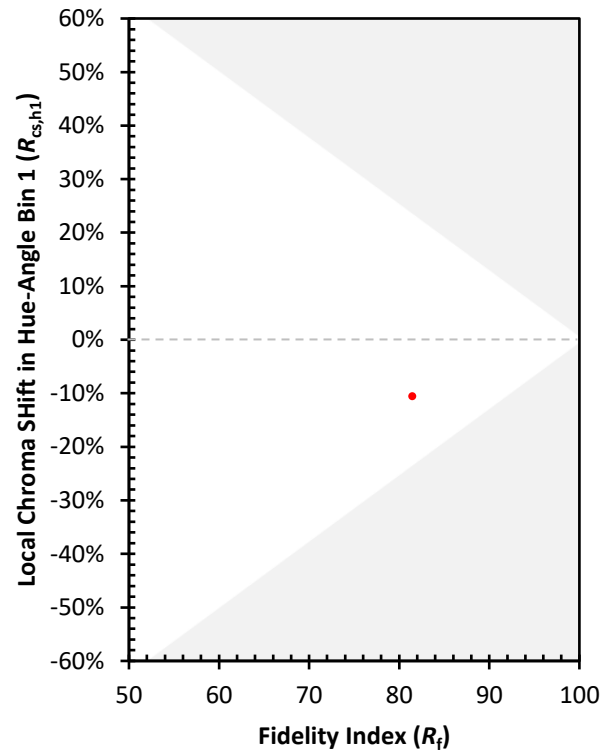
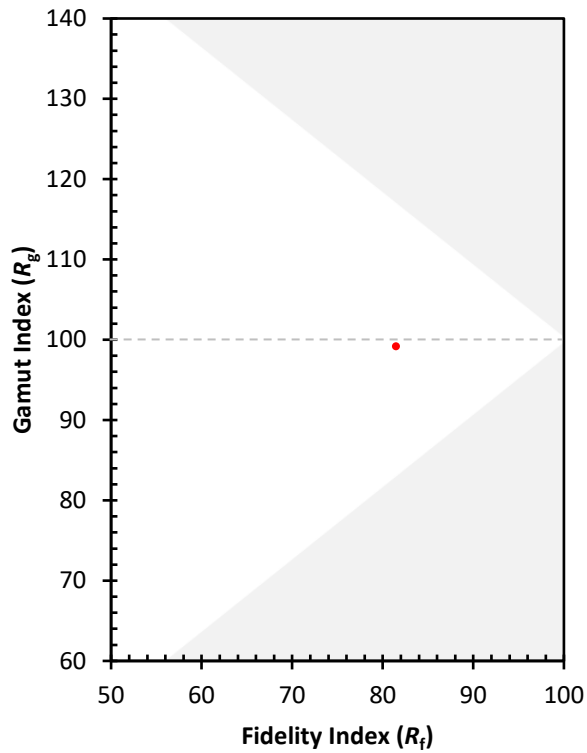
Individual Sample Fidelity Index ($R_{f,i}$)

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)