

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: P1065386

Luminaire Tested: **GLAN-SA1B-830-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065386
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1B-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 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: 3737.7 lumens
Efficiency: N/A
Efficacy: 96.6 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): 38.7
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

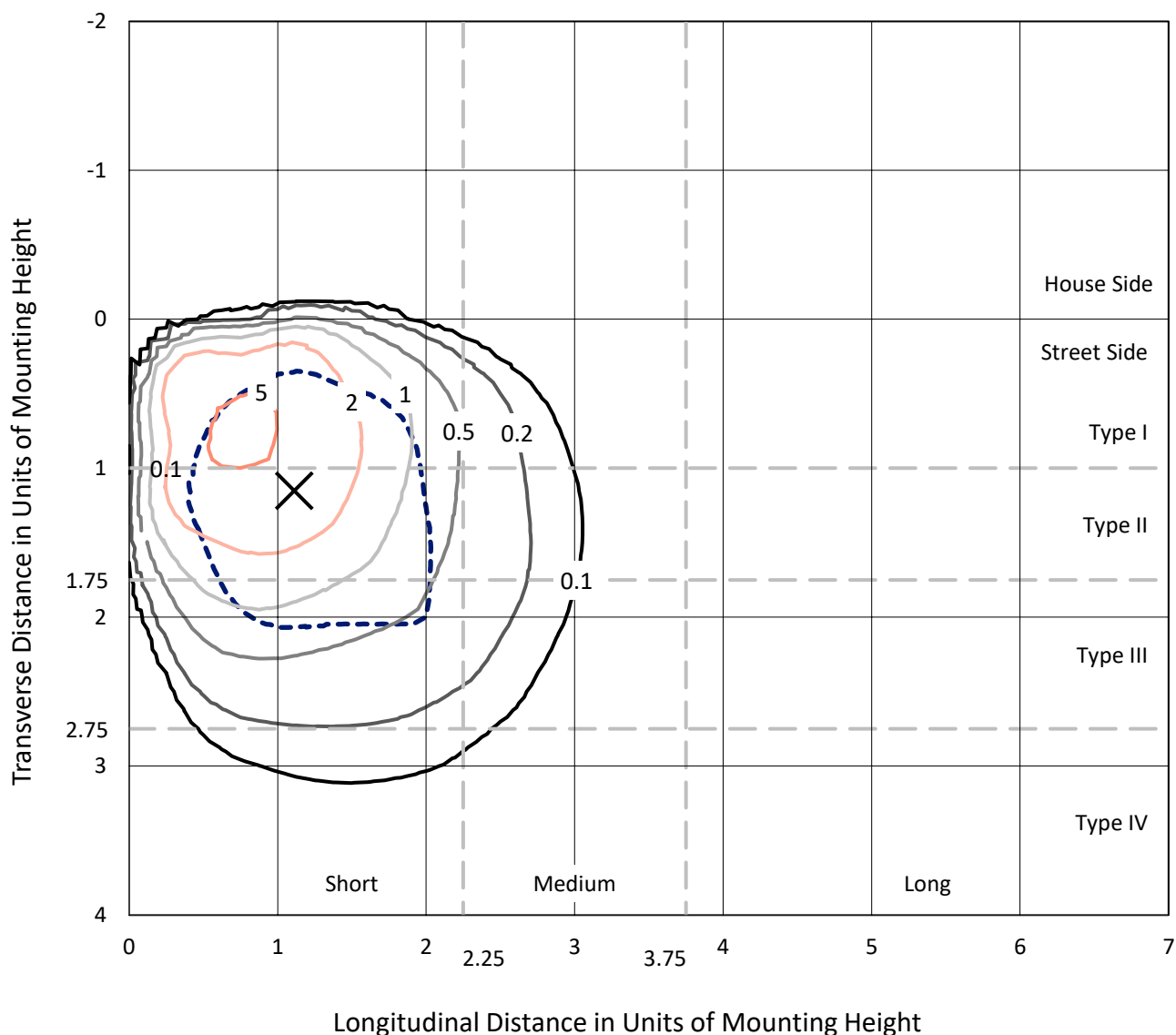
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

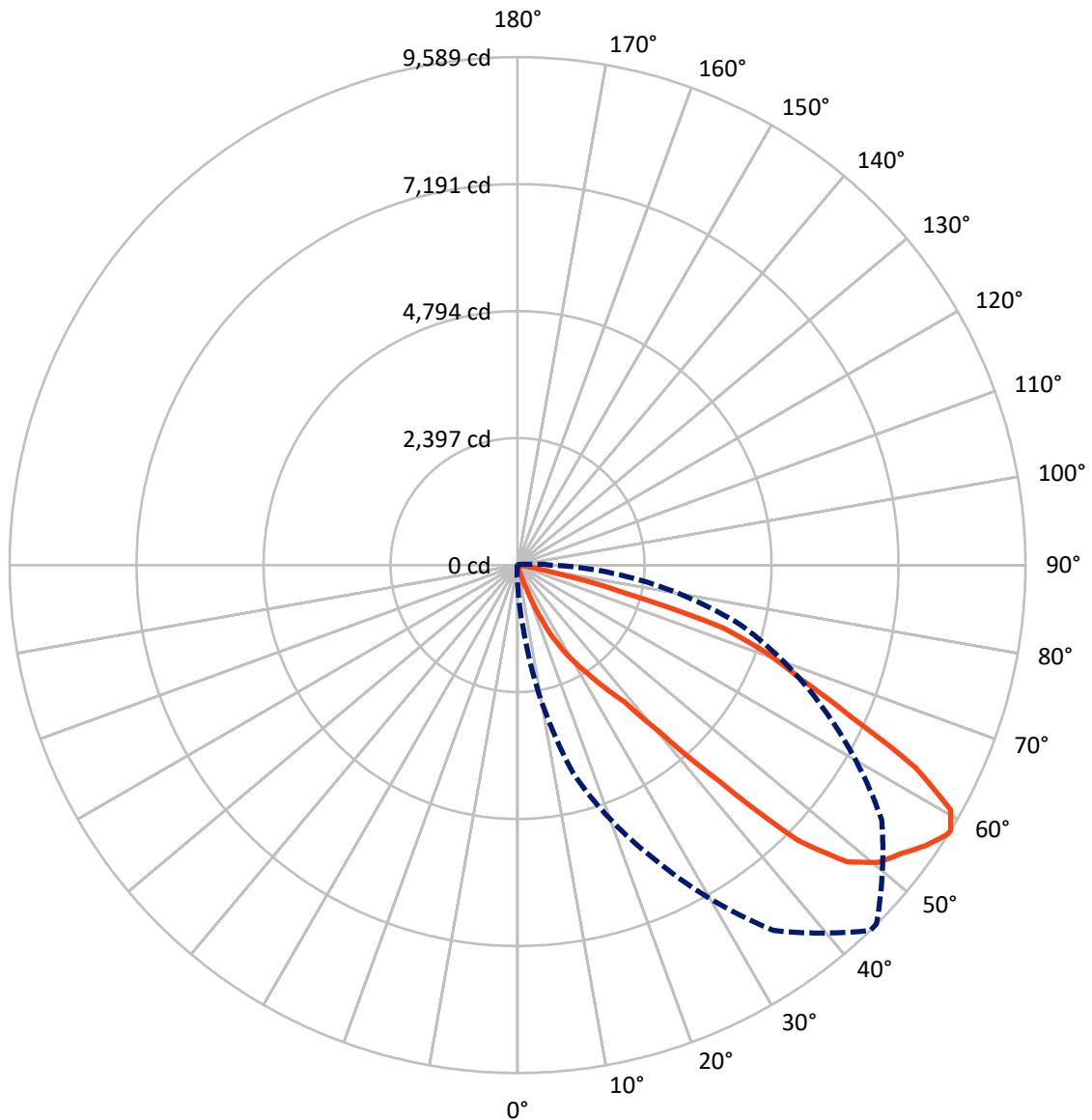


Based on 20 foot mounting height. Maximum calculated value = 6.5 fc

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	25.5	0.0	25.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	3712.2	0.0	3712.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	3737.7	0.0	3737.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.0
10°-20°	8.2	0.2
20°-30°	88.5	2.4
30°-40°	261.9	7.0
40°-50°	780.5	20.9
50°-60°	1238.4	33.1
60°-70°	1033.0	27.6
70°-80°	318.6	8.5
80°-90°	7.1	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°	3737.7	100.0
0°-180°	3737.7	100.0



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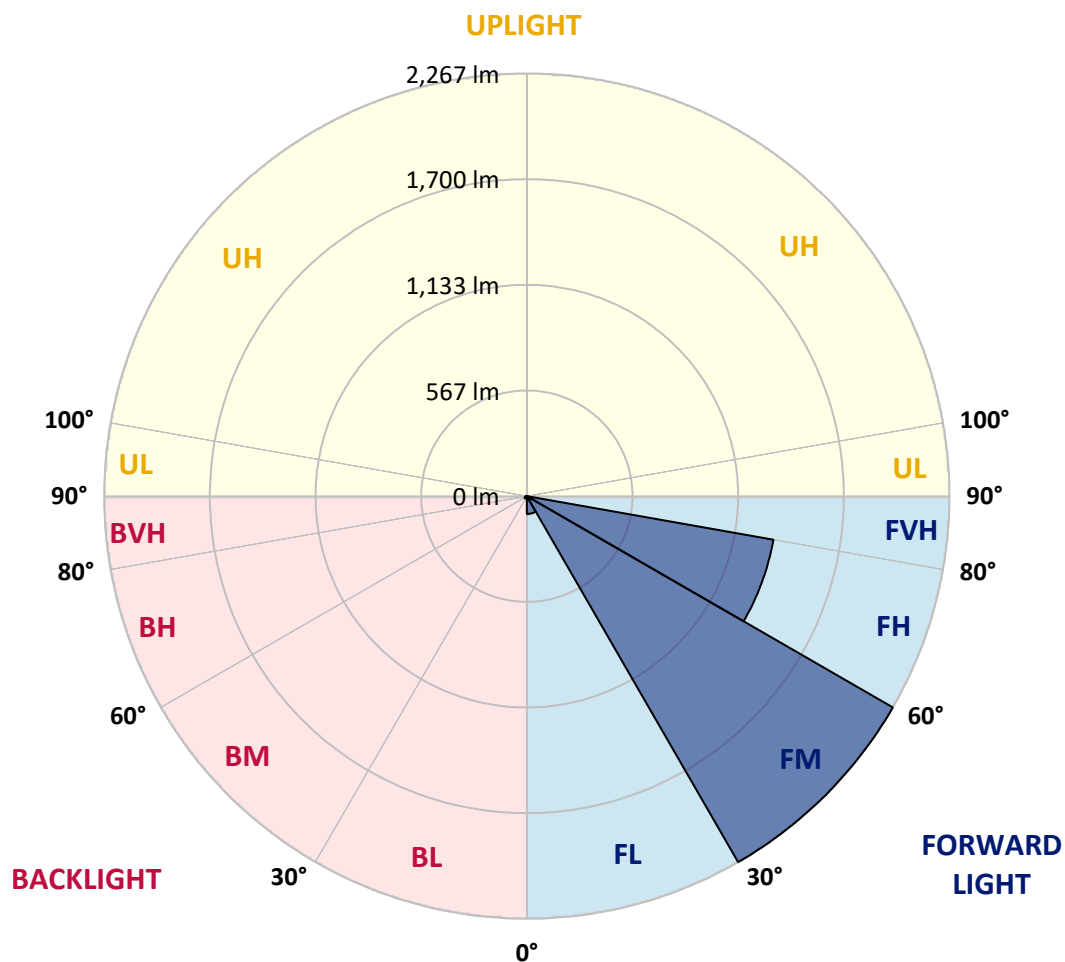
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	95.7	2.6			
FM	(30°-60°)	2266.8	60.6			
FH	(60°-80°)	1342.9	35.9			G1/1800
FVH	(80°-90°)	6.7	0.2			G0/10
BL	(0°-30°)	2.5	0.1	B0/110		
BM	(30°-60°)	14.0	0.4	B0/220		
BH	(60°-80°)	8.7	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°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	21.2	21.2	20.3	19.2	18.1	16.9	16.7	16.1	15.8	15.5
5°	22.0	22.0	21.7	20.9	19.8	18.9	18.9	18.1	17.5	16.9
7.5°	22.6	22.9	23.4	23.2	22.6	21.7	21.7	21.2	20.3	18.9
10°	23.4	24.3	25.4	26.0	26.3	26.3	26.0	25.7	24.3	22.3
12.5°	24.3	26.0	28.8	31.6	33.3	35.6	35.3	34.7	31.1	26.8
15°	26.0	28.5	34.4	42.6	55.3	63.2	66.4	63.5	51.4	36.1
17.5°	28.0	32.2	50.0	89.2	146.3	173.4	189.7	176.5	116.9	68.6
20°	29.9	39.2	92.9	231.2	379.5	468.1	492.7	454.3	291.7	130.7
22.5°	33.3	55.1	188.3	478.0	817.7	950.7	975.8	853.0	550.9	258.1
25°	40.4	79.9	324.7	779.0	1220.3	1444.8	1434.3	1273.4	893.6	412.2
27.5°	50.5	116.3	491.0	1106.8	1606.0	1803.9	1827.7	1628.6	1191.2	606.2
30°	65.2	161.2	669.5	1369.4	1915.2	2129.2	2133.2	1927.3	1457.5	776.5
32.5°	79.3	203.6	825.6	1623.2	2219.8	2454.5	2472.0	2218.7	1656.3	953.8
35°	90.1	231.2	983.7	1846.3	2527.0	2850.3	2849.2	2548.5	1891.7	1112.2
37.5°	90.9	258.9	1126.9	2074.4	2916.1	3278.1	3313.9	2982.5	2176.4	1308.1
40°	88.9	290.0	1308.1	2430.2	3617.2	4172.6	4204.2	3786.3	2747.3	1643.6
42.5°	91.2	343.9	1602.3	3087.2	4781.3	5579.0	5639.9	5200.6	3796.8	2328.0
45°	103.1	445.3	2218.7	4186.4	6440.7	7413.1	7392.8	6760.0	5017.9	3369.8
47.5°	142.3	693.5	3132.4	5256.2	7501.2	8367.2	8384.7	7611.3	5730.6	4170.9
50°	218.8	1061.1	3900.1	5821.8	7957.2	8826.0	8809.6	7916.0	6001.3	4565.3
52.5°	284.6	1327.0	4285.2	6020.3	8015.6	9052.7	9051.6	7996.2	6043.4	4599.2
55°	301.0	1347.1	4288.3	6031.0	8146.6	9349.5	9386.7	8193.5	6097.9	4451.2
57.5°	294.5	1192.6	4109.3	6093.1	8379.9	9579.0	9581.0	8384.7	6236.3	4360.6
58°	288.8	1168.4	4073.2	6128.4	8420.0	9588.6	9583.8	8393.4	6348.9	4357.2
60°	257.2	1014.5	3932.3	6218.5	8360.4	9391.5	9346.6	8202.3	6332.3	4322.5
62.5°	202.2	791.4	3793.7	6114.3	7721.7	8437.5	8456.1	7261.8	5772.6	4120.1
65°	160.9	589.8	3504.5	5363.2	6358.5	6928.9	6998.3	5905.1	4818.3	3488.7
67.5°	128.2	426.3	2939.8	4270.0	5031.5	5782.8	5833.4	4957.8	3732.9	2673.0
70°	104.2	288.3	2029.2	3122.8	4150.0	4994.8	4997.9	4118.6	2786.2	1751.4
72.5°	92.3	199.6	1178.0	2277.4	3365.0	4070.1	3987.9	3342.2	2141.3	1037.4
75°	79.9	132.4	577.7	1392.3	2040.3	2054.1	2085.4	1550.4	1070.4	493.3
77.5°	65.8	94.0	227.6	380.3	611.9	783.2	812.3	615.5	356.0	121.4
80°	45.2	44.6	61.3	116.6	175.1	219.4	204.7	158.4	93.2	46.6
82.5°	19.5	21.2	27.7	33.3	27.1	26.3	25.1	16.1	12.4	9.6
85°	6.2	5.6	5.9	5.9	4.8	3.7	3.7	1.7	0.0	0.0
87.5°	3.1	2.5	2.5	2.3	1.4	0.6	0.3	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°
16.4	0°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
15.2	2.5°	15.0	15.0	14.4	13.8	13.6	13.0	12.7	12.4	12.1	11.9
16.4	5°	15.8	15.5	14.7	13.8	13.0	12.1	11.6	11.0	10.4	10.2
18.1	7.5°	17.2	16.7	15.0	13.6	12.4	11.3	10.7	9.9	9.3	8.5
20.0	10°	18.9	17.8	15.5	13.8	12.1	10.7	9.9	9.0	8.2	7.1
22.9	12.5°	21.2	19.2	16.4	13.6	11.6	9.9	9.0	7.9	7.1	6.2
26.5	15°	23.2	20.6	16.7	13.6	11.0	9.0	7.9	6.8	5.9	4.8
33.3	17.5°	26.0	21.7	16.4	12.7	10.2	7.9	6.8	5.9	4.5	2.8
49.4	20°	30.8	22.6	15.8	11.9	8.8	6.5	5.1	4.0	2.0	0.6
74.3	22.5°	38.4	24.8	15.2	10.7	7.6	5.1	3.4	1.4	0.0	0.0
112.9	25°	53.1	28.8	15.2	10.2	6.8	3.7	1.1	0.0	0.0	0.0
160.4	27.5°	70.6	34.2	15.2	8.8	5.4	2.0	0.0	0.0	0.0	0.0
218.5	30°	88.4	40.1	15.2	7.6	4.2	0.3	0.0	0.0	0.0	0.0
269.1	32.5°	105.3	45.2	15.5	6.5	2.8	0.0	0.0	0.0	0.0	0.0
339.1	35°	122.5	46.0	15.2	5.6	1.7	0.0	0.0	0.0	0.0	0.0
424.9	37.5°	144.6	44.3	14.4	5.1	0.8	0.0	0.0	0.0	0.0	0.0
559.1	40°	177.9	45.2	13.6	4.8	0.3	0.0	0.0	0.0	0.0	0.0
798.2	42.5°	239.4	48.8	12.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0
1271.4	45°	413.9	65.5	11.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0
1908.7	47.5°	684.7	117.7	11.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0
2299.2	50°	873.9	148.2	11.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0
2348.0	52.5°	872.5	165.2	12.1	5.6	1.1	0.0	0.0	0.0	0.0	0.0
2164.2	55°	775.6	168.3	13.0	6.2	3.7	0.0	0.0	0.0	0.0	0.0
1859.8	57.5°	648.3	153.6	15.0	7.6	6.8	0.0	0.0	0.0	0.0	0.0
1812.1	58°	625.7	146.8	15.5	7.9	7.3	0.0	0.0	0.0	0.0	0.0
1571.8	60°	512.7	119.7	19.8	9.9	9.9	0.0	0.0	0.0	0.0	0.0
1288.6	62.5°	354.1	104.5	22.6	12.7	10.2	0.0	0.0	0.0	0.0	0.0
950.1	65°	250.4	94.3	24.6	13.6	8.2	0.0	0.0	0.0	0.0	0.0
675.1	67.5°	187.2	87.0	27.1	13.8	4.2	0.0	0.0	0.0	0.0	0.0
423.5	70°	143.4	81.6	33.3	14.7	1.1	0.0	0.0	0.0	0.0	0.0
252.4	72.5°	116.9	75.4	40.4	15.2	0.0	0.0	0.0	0.0	0.0	0.0
151.3	75°	96.8	68.0	39.0	16.7	0.0	0.0	0.0	0.0	0.0	0.0
80.8	77.5°	64.4	52.8	35.6	16.7	0.0	0.0	0.0	0.0	0.0	0.0
28.8	80°	22.6	20.9	27.7	14.7	0.0	0.0	0.0	0.0	0.0	0.0
5.9	82.5°	3.4	2.8	4.0	5.1	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°
16.4	0°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
11.6	2.5°	11.6	11.6	11.3	11.6	11.6	12.1	13.6	15.5	17.8	18.6
9.9	5°	9.6	9.3	9.0	9.0	9.0	9.9	11.0	13.3	15.8	16.9
8.2	7.5°	7.9	7.6	7.3	7.1	7.1	7.6	9.0	11.6	14.1	15.2
6.8	10°	6.5	5.9	5.6	5.4	5.4	5.9	7.3	9.9	12.7	13.8
5.6	12.5°	5.4	4.5	4.0	3.7	3.4	4.2	5.6	7.9	11.0	12.4
4.2	15°	3.7	2.8	2.0	1.7	1.4	2.3	3.7	6.2	9.3	11.0
2.3	17.5°	2.0	0.8	0.3	0.0	0.0	0.6	1.7	4.5	7.6	9.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.6	7.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.4	4.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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	0.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3
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°
16.4	0°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
19.5	2.5°	20.0	19.8	19.2	18.6	18.6	18.6	19.5	20.3	21.2	21.2
17.5	5°	18.6	18.6	18.4	17.8	17.8	18.1	19.2	20.6	21.7	22.0
16.1	7.5°	17.2	17.8	17.2	16.9	17.2	17.5	18.6	20.3	22.0	22.6
15.0	10°	16.4	16.7	16.7	16.4	16.4	16.9	18.1	20.3	22.6	23.4
13.6	12.5°	15.2	15.8	15.5	15.5	15.5	16.1	17.5	20.0	23.2	24.3
12.1	15°	14.1	15.0	15.0	14.7	14.7	15.0	16.9	19.8	24.0	26.0
10.4	17.5°	13.0	13.8	14.1	13.6	13.6	14.1	16.1	19.8	24.6	28.0
8.5	20°	10.7	12.1	13.0	12.1	12.1	12.7	14.7	18.6	24.8	29.9
6.2	22.5°	8.5	9.9	11.0	10.7	10.7	11.0	13.6	17.8	25.1	33.3
3.7	25°	6.2	7.6	8.5	9.0	9.0	9.9	12.4	17.2	26.3	40.4
1.7	27.5°	3.7	5.4	6.5	7.1	7.3	8.5	11.6	16.7	28.2	50.5
0.0	30°	1.7	3.1	4.5	5.6	5.6	7.6	10.7	16.1	30.8	65.2
0.0	32.5°	0.0	1.4	2.3	4.0	4.2	6.2	9.9	15.5	34.4	79.3
0.0	35°	0.0	0.0	1.1	3.1	3.1	5.1	9.0	15.0	40.1	90.1
0.0	37.5°	0.0	0.0	0.0	2.3	2.5	4.5	8.8	14.7	41.2	90.9
0.0	40°	0.0	0.0	0.0	1.7	2.0	4.2	8.8	15.0	37.3	88.9
0.0	42.5°	0.0	0.0	0.0	1.1	1.4	4.2	8.8	15.5	33.6	91.2
0.0	45°	0.0	0.0	0.0	0.8	1.1	4.5	8.5	15.2	31.6	103.1
0.0	47.5°	0.0	0.0	0.0	1.1	1.7	4.5	8.2	15.0	31.9	142.3
0.0	50°	0.0	0.0	0.0	1.4	2.0	4.5	8.5	14.4	35.0	218.8
0.0	52.5°	0.0	0.0	0.0	1.1	1.7	5.1	9.3	14.1	38.1	284.6
0.0	55°	0.0	0.0	0.0	0.3	0.8	6.5	10.2	14.1	42.9	301.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	7.3	11.6	15.0	50.8	294.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	7.3	11.9	15.0	51.4	288.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	7.3	13.0	16.7	55.3	257.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	6.2	15.5	20.9	57.6	202.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	5.1	18.4	22.9	59.3	160.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	4.8	18.9	23.2	60.1	128.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	5.1	18.6	24.8	63.0	104.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	5.6	16.9	27.4	63.0	92.3
0.0	75°	0.0	0.0	0.0	0.0	0.0	5.9	15.8	30.8	57.3	79.9
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	5.6	15.5	35.9	51.1	65.8
0.0	80°	0.6	0.8	0.8	0.6	0.6	4.8	15.2	36.4	43.5	45.2
0.3	82.5°	1.7	2.3	2.0	1.4	1.4	4.2	13.6	30.5	22.6	19.5
1.7	85°	3.1	3.7	3.7	3.1	3.1	4.0	8.5	11.0	7.6	6.2
3.1	87.5°	4.2	4.8	4.8	4.2	4.2	4.0	3.7	3.4	3.1	3.1
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

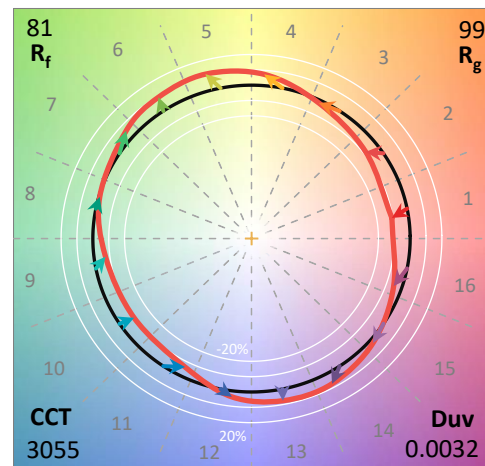
Test Information

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

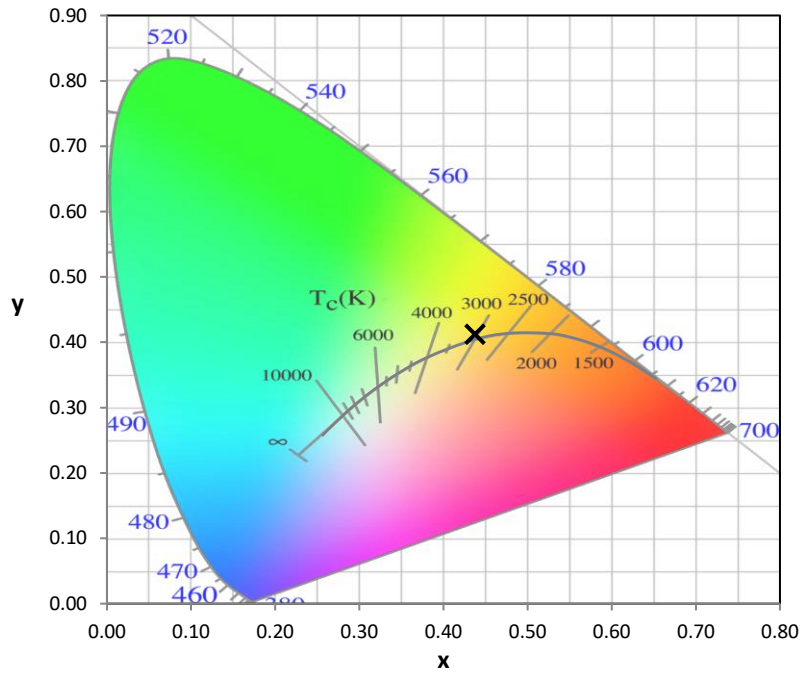
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

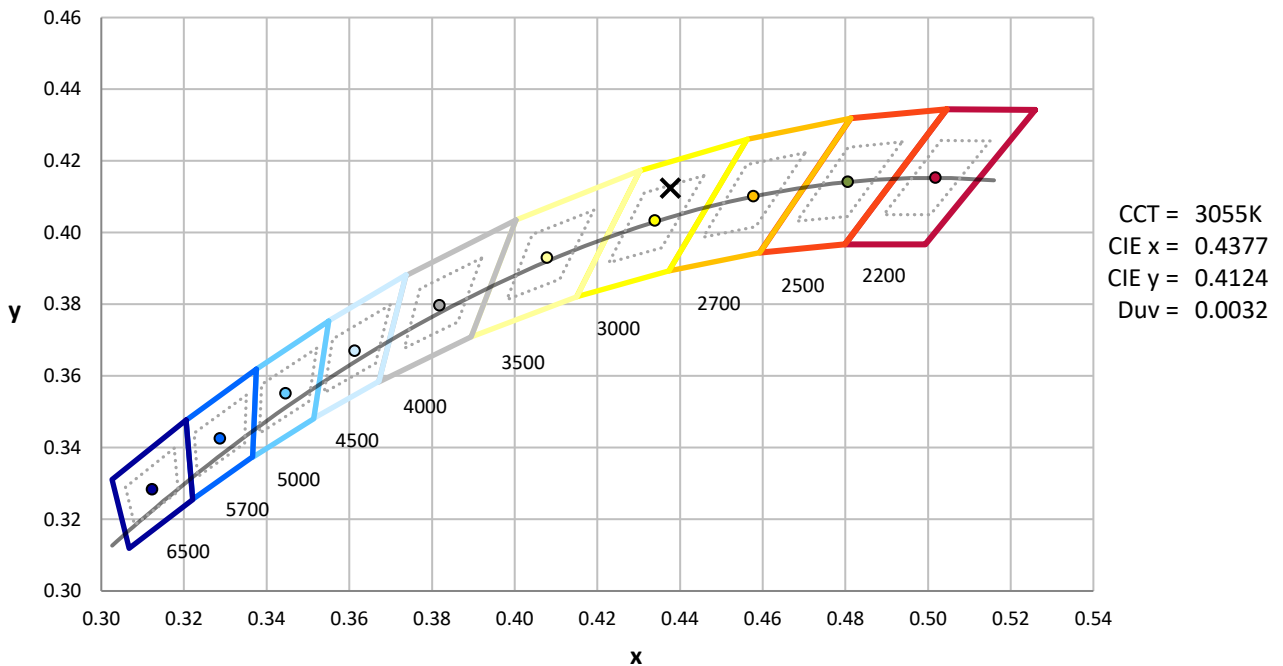
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

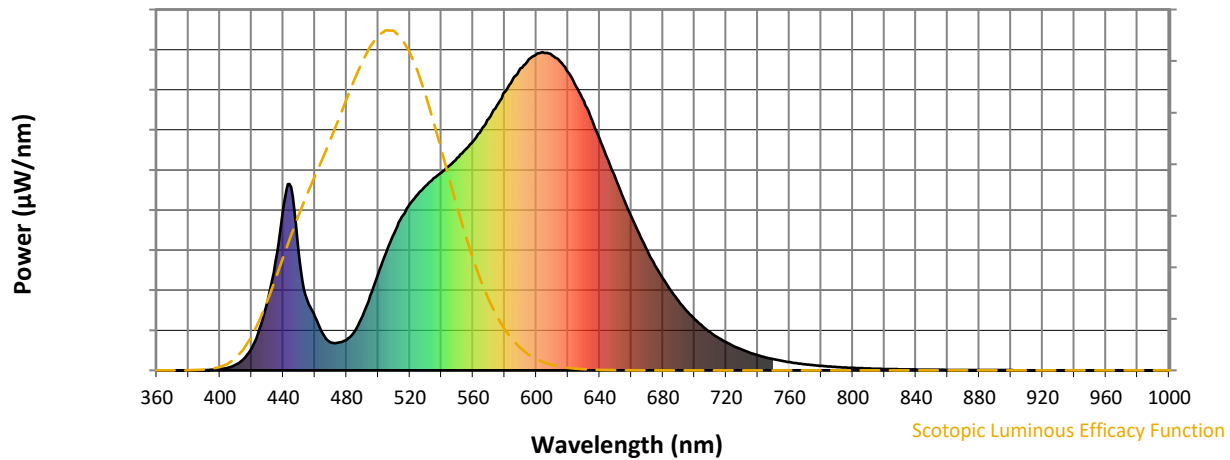


Photopic Lumens: NR

λ (nm)	Power W ^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			

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Scotopic Flux vs. Wavelength



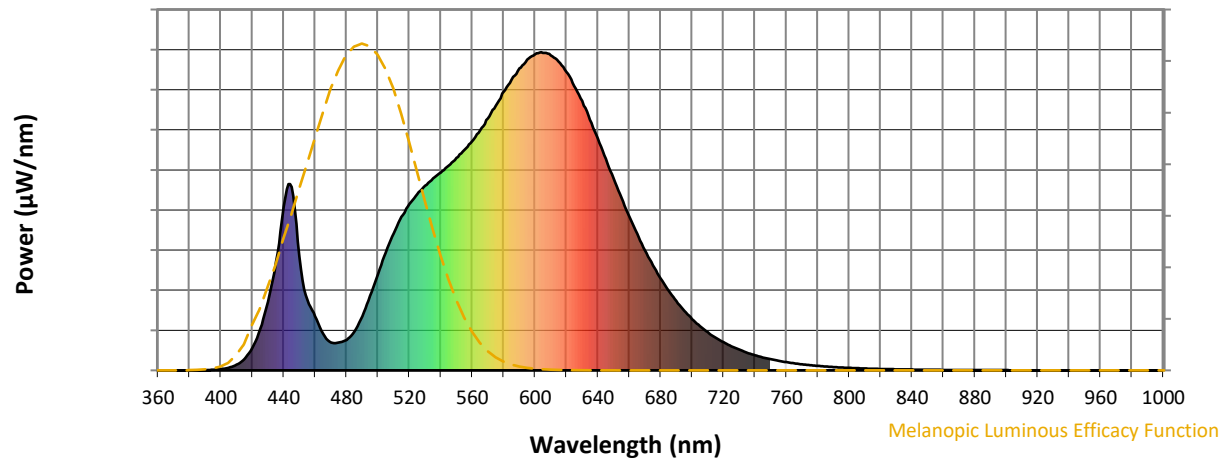
Scotopic Lumens: NR

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			

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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			

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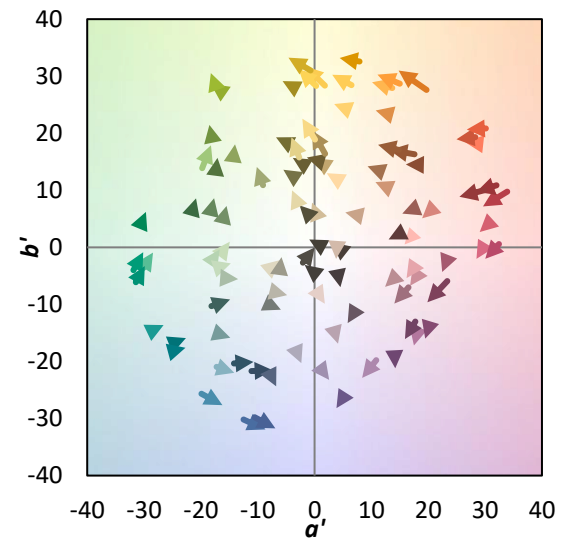
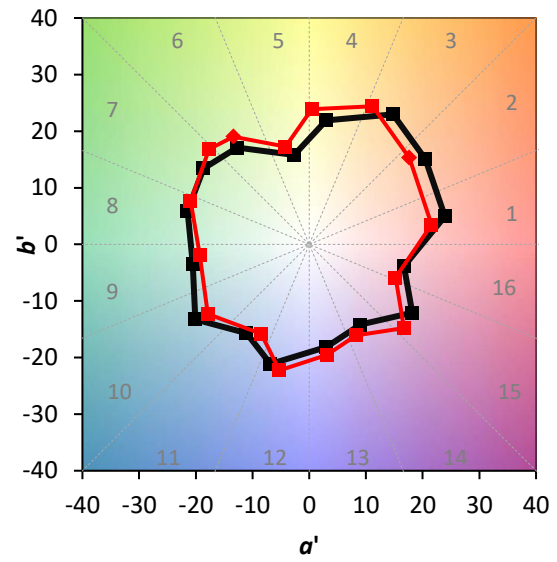
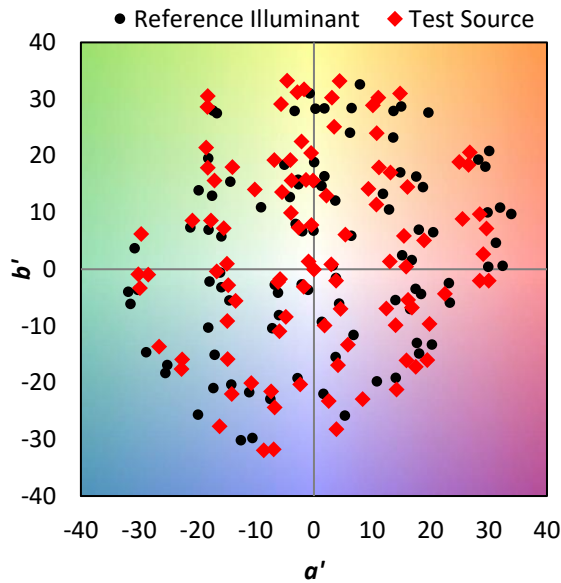
TM-30-18

Summary

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

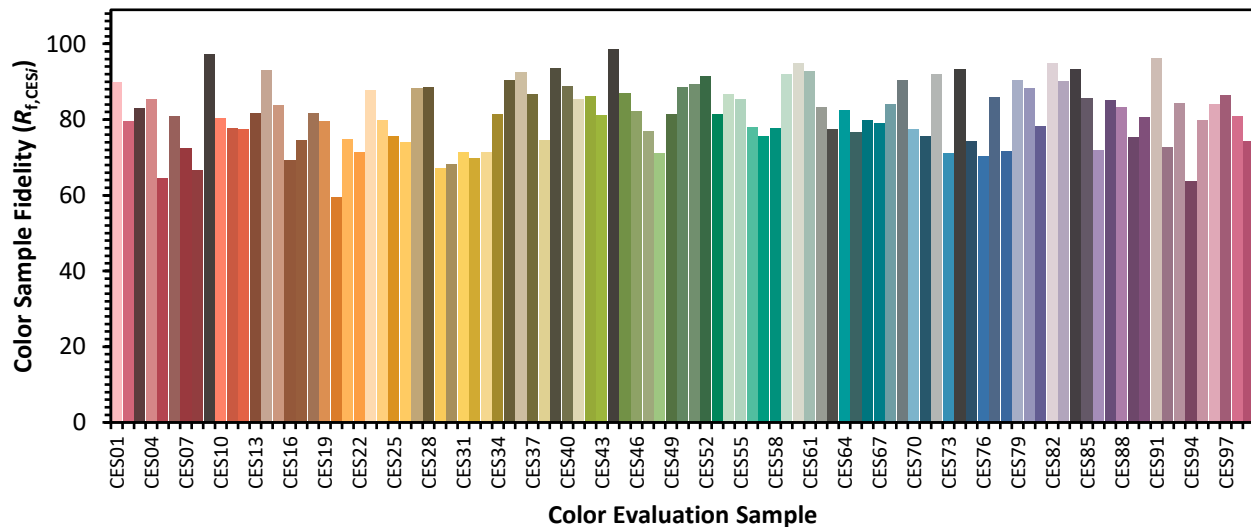


Color Vector Graphics

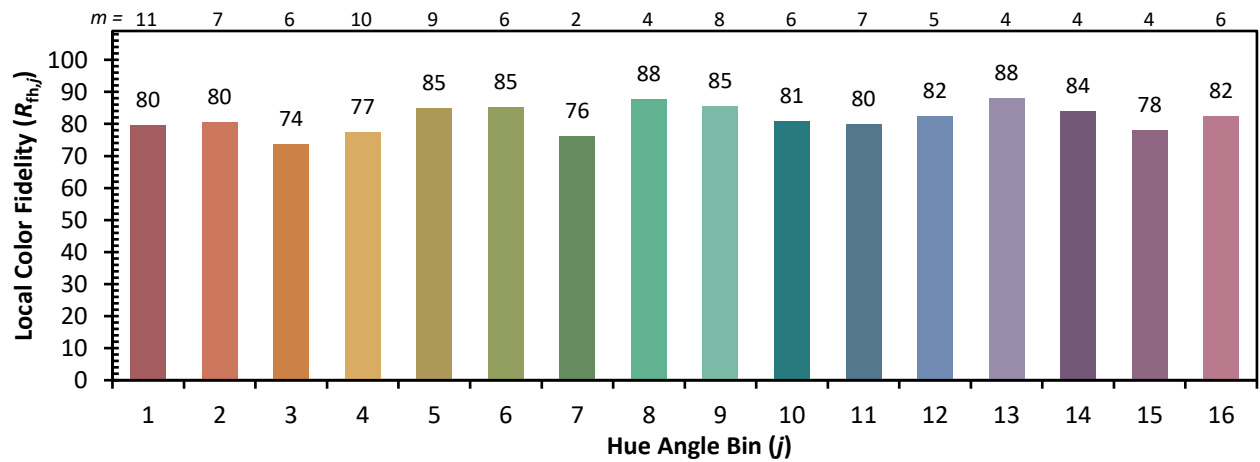
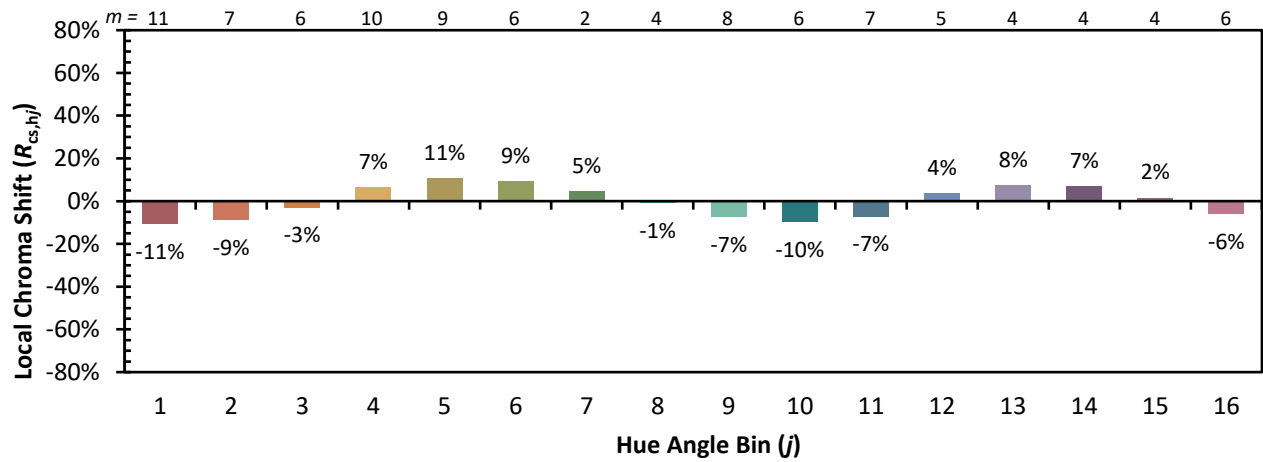


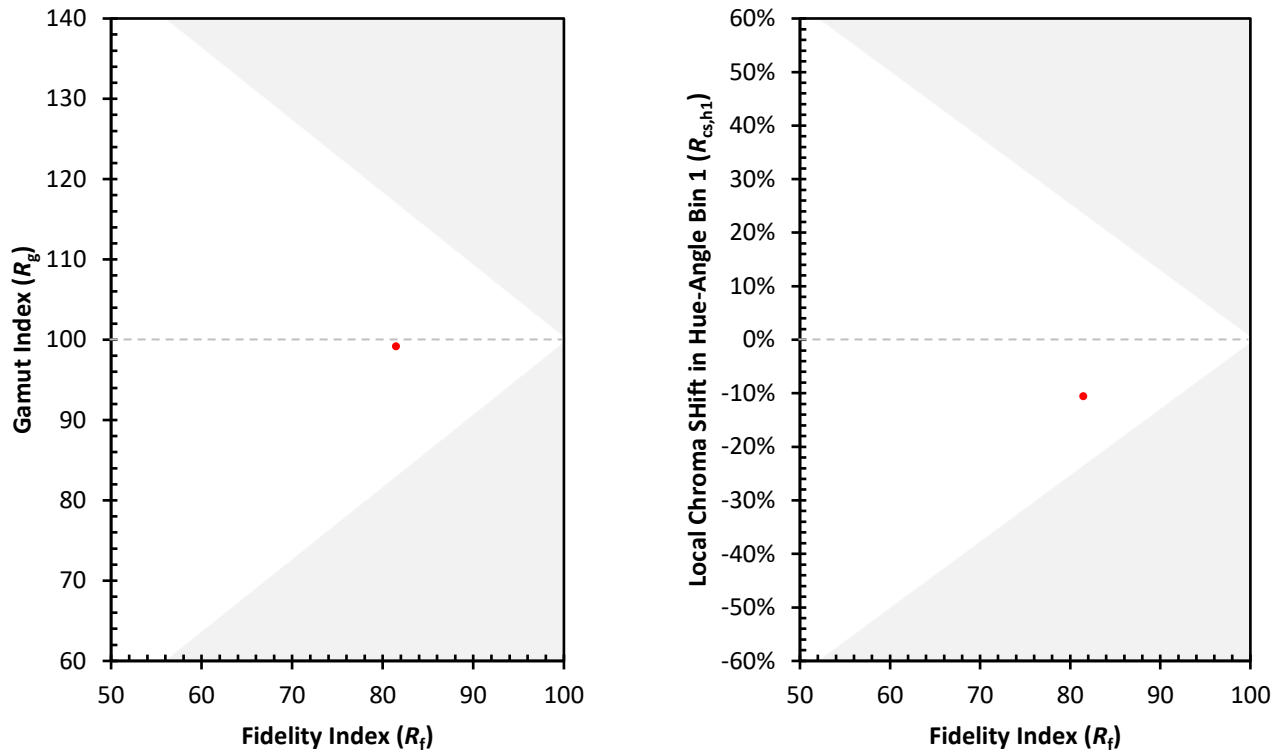
Individual Sample Fidelity Index ($R_{f,i}$)

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)