

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: P1049759

Luminaire Tested: **GALN-SA3C-830-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049759
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13902.9 lumens
Efficiency: N/A
Efficacy: 99.0 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): 140.4
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

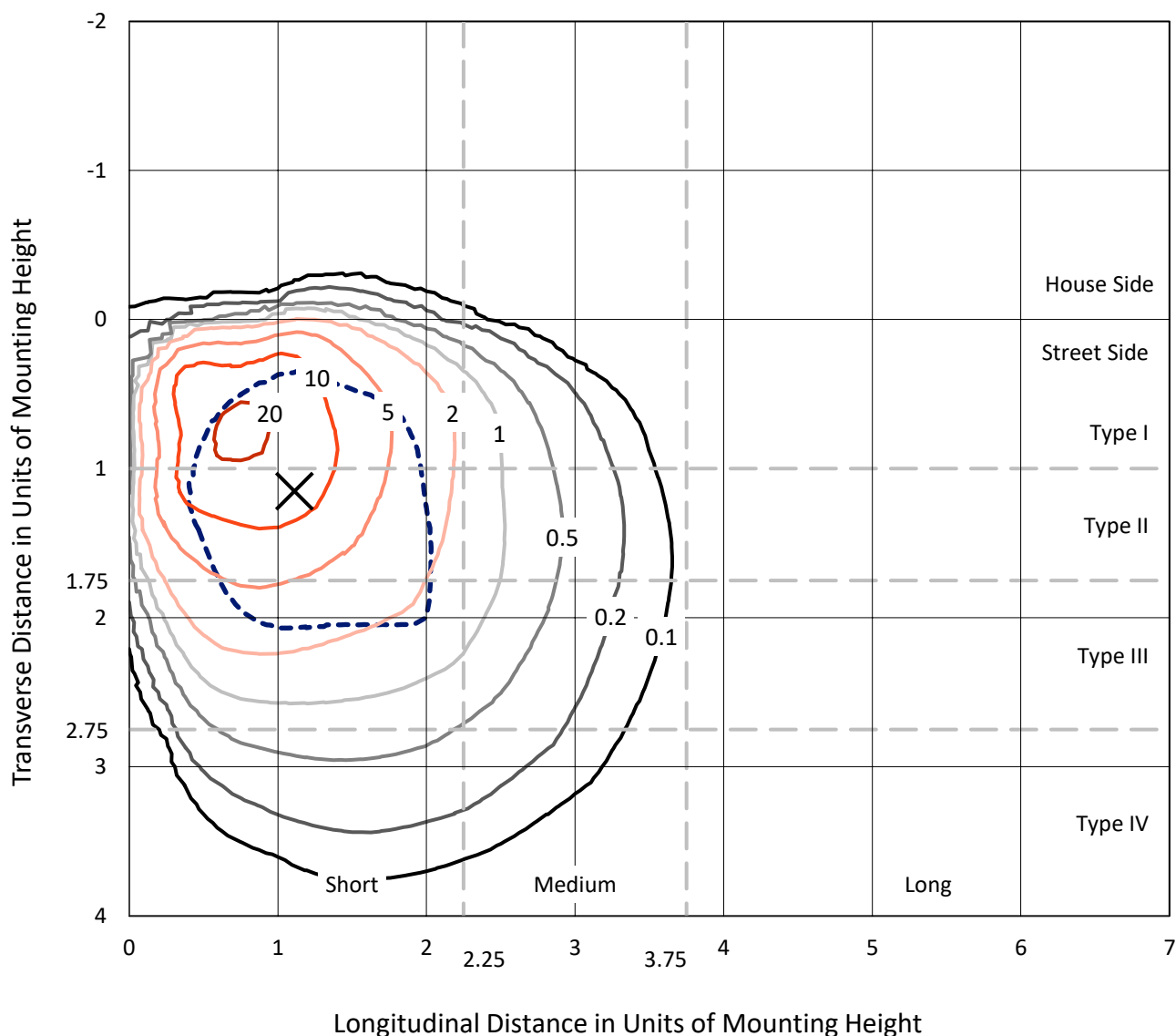
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

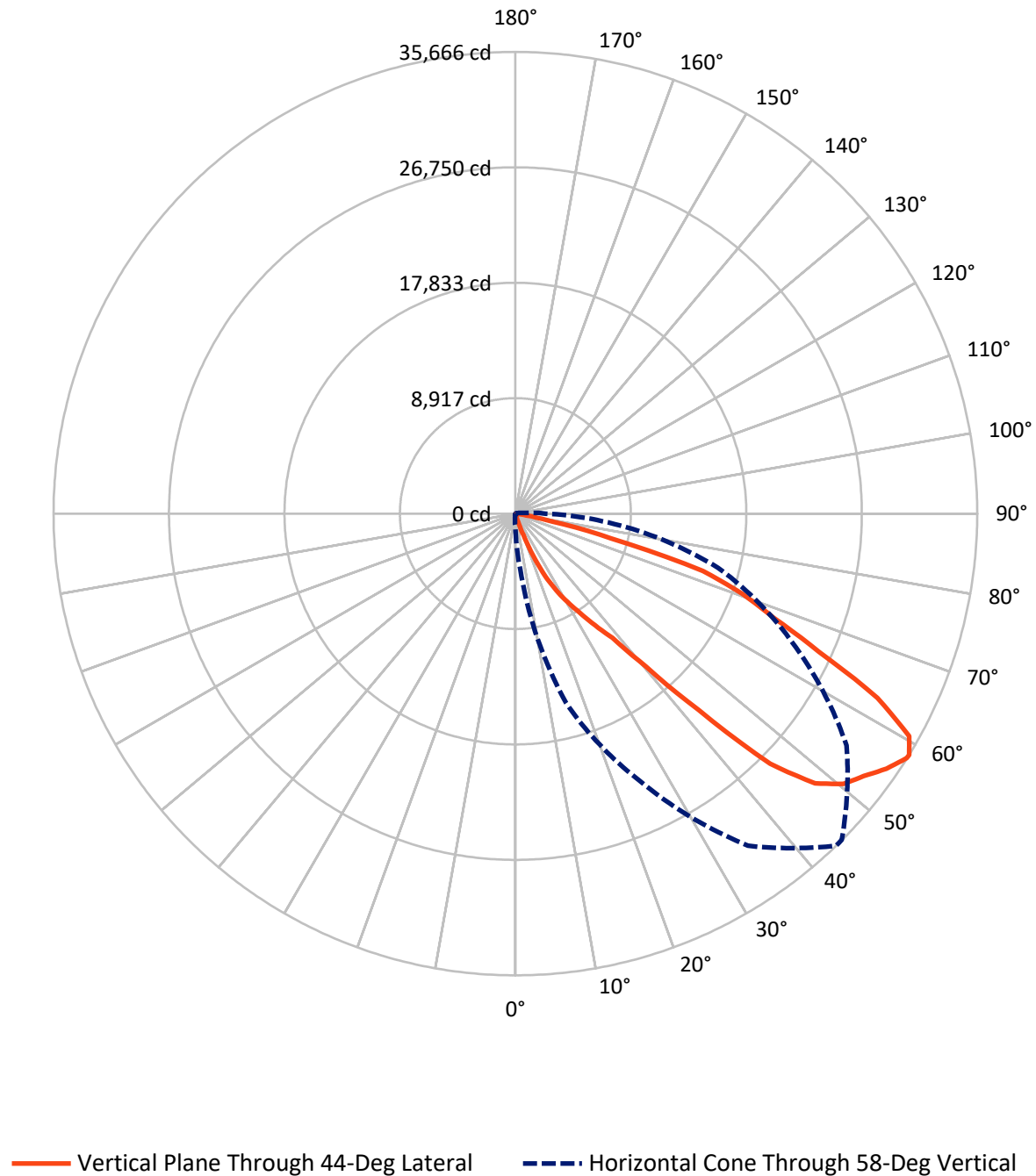


Based on 20 foot mounting height. Maximum calculated value = 24.2 fc

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	94.9	0.0	94.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	13808.0	0.0	13808.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	13902.9	0.0	13902.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.0
10°-20°	30.5	0.2
20°-30°	329.4	2.4
30°-40°	974.0	7.0
40°-50°	2903.2	20.9
50°-60°	4606.6	33.1
60°-70°	3842.5	27.6
70°-80°	1185.1	8.5
80°-90°	26.3	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°	13902.9	100.0
0°-180°	13902.9	100.0



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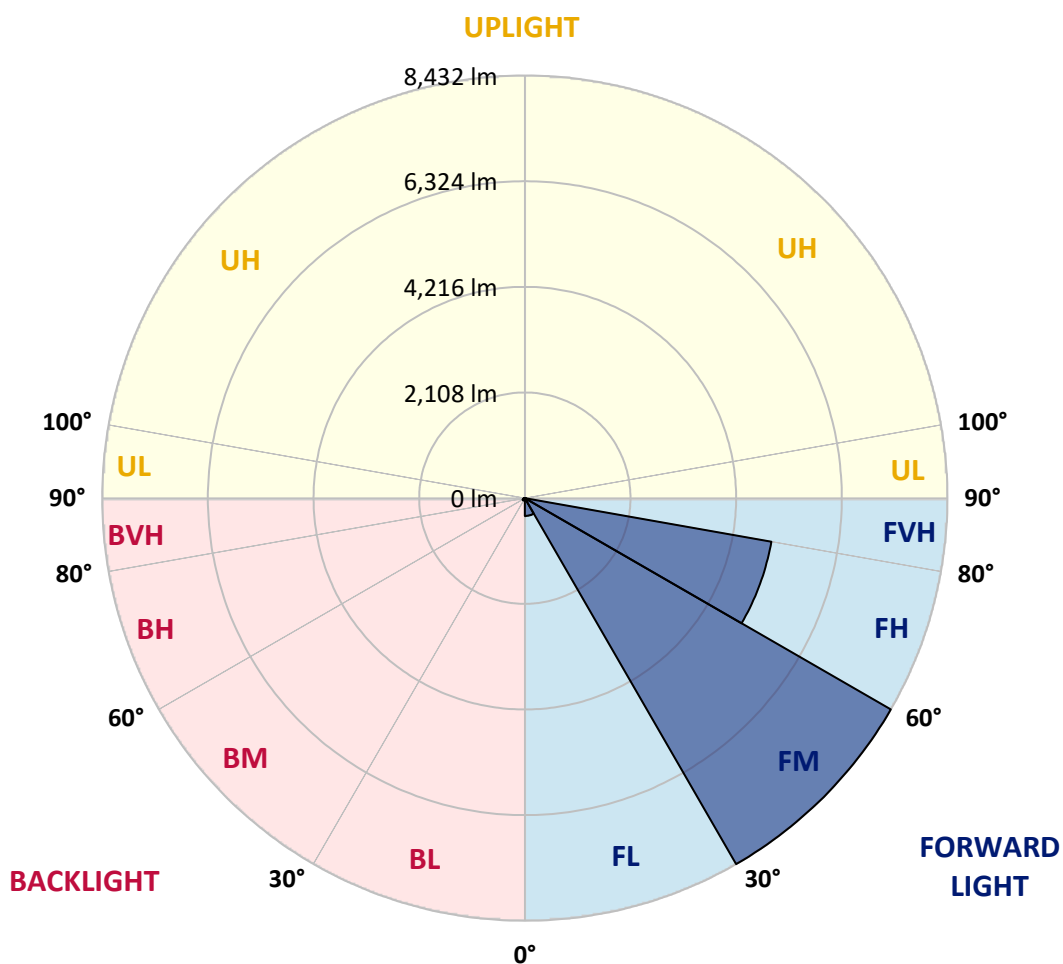
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.0	2.6			
FM	(30°-60°)	8431.8	60.6			
FH	(60°-80°)	4995.1	35.9			G2/5000
FVH	(80°-90°)	25.1	0.2			G1/100
BL	(0°-30°)	9.3	0.1	B0/110		
BM	(30°-60°)	52.0	0.4	B0/220		
BH	(60°-80°)	32.4	0.2	B0/110		G0/110
BVH	(80°-90°)	1.3	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
2.5°	78.8	78.8	75.6	71.4	67.2	63.0	62.0	59.9	58.8	57.8
5°	81.9	81.9	80.9	77.7	73.5	70.4	70.4	67.2	65.1	63.0
7.5°	84.0	85.1	87.2	86.1	84.0	80.9	80.9	78.8	75.6	70.4
10°	87.2	90.3	94.5	96.6	97.7	97.7	96.6	95.6	90.3	83.0
12.5°	90.3	96.6	107.1	117.6	123.9	132.3	131.3	129.2	115.5	99.8
15°	96.6	106.1	128.1	158.6	205.8	235.3	246.8	236.3	191.1	134.4
17.5°	104.0	119.7	185.9	331.9	544.0	644.9	705.8	656.4	434.8	255.2
20°	111.3	146.0	345.5	860.2	1411.5	1741.3	1832.7	1689.8	1084.9	486.3
22.5°	123.9	204.8	700.5	1778.1	3041.5	3536.2	3629.7	3172.8	2049.0	959.9
25°	150.2	297.2	1207.8	2897.6	4539.2	5374.1	5335.3	4736.6	3324.0	1533.4
27.5°	188.0	432.7	1826.4	4117.0	5973.8	6710.0	6798.3	6057.8	4431.0	2254.9
30°	242.6	599.7	2490.1	5093.7	7123.8	7919.9	7934.6	7169.0	5421.4	2888.2
32.5°	295.1	757.2	3070.9	6037.9	8257.0	9129.8	9194.9	8252.8	6160.8	3547.7
35°	335.0	860.2	3659.1	6867.6	9399.7	10602.2	10598.0	9479.5	7036.7	4136.9
37.5°	338.2	963.1	4191.5	7716.2	10847.0	12193.4	12326.8	11093.8	8095.3	4865.8
40°	330.8	1078.6	4865.8	9039.5	13454.7	15520.6	15638.2	14083.8	10218.9	6113.5
42.5°	339.2	1279.2	5960.2	11483.4	17784.9	20751.8	20978.7	19344.5	14122.7	8659.3
45°	383.3	1656.2	8252.8	15572.0	23957.2	27574.3	27498.6	25145.0	18665.0	12534.7
47.5°	529.3	2579.4	11651.4	19551.4	27901.9	31123.0	31188.2	28311.5	21315.8	15514.3
50°	813.9	3946.8	14507.1	21655.1	29598.1	32829.7	32768.8	29444.7	22323.0	16981.5
52.5°	1058.6	4936.2	15939.6	22393.4	29815.5	33673.0	33668.8	29743.0	22479.5	17107.5
55°	1119.6	5010.7	15951.2	22433.3	30302.8	34776.8	34915.5	30477.1	22682.2	16557.2
57.5°	1095.4	4436.2	15285.3	22664.3	31170.3	35630.7	35638.1	31188.2	23196.8	16220.0
58°	1074.4	4345.9	15150.9	22795.6	31319.4	35666.4	35648.6	31220.7	23615.9	16207.4
60°	956.8	3773.5	14626.8	23130.7	31097.8	34933.3	34766.3	30509.7	23553.9	16078.2
62.5°	752.0	2943.8	14111.1	22743.1	28722.2	31384.5	31453.9	27011.3	21472.3	15325.2
65°	598.6	2194.0	13035.7	19949.5	23651.6	25773.1	26031.4	21964.9	17922.5	12976.9
67.5°	476.8	1585.9	10935.2	15882.9	18715.4	21510.1	21698.1	18441.3	13885.3	9942.7
70°	387.5	1072.3	7548.1	11615.7	15436.5	18578.9	18590.4	15320.0	10363.8	6514.7
72.5°	343.4	742.5	4381.6	8471.3	12516.9	15139.3	14833.7	12431.8	7965.1	3858.6
75°	297.2	492.6	2148.8	5178.8	7589.1	7640.6	7757.1	5766.9	3981.5	1834.8
77.5°	244.7	349.7	846.5	1414.7	2275.9	2913.4	3021.6	2289.5	1324.4	451.6
80°	168.0	165.9	227.9	433.8	651.2	816.0	761.4	589.2	346.6	173.3
82.5°	72.5	78.8	102.9	123.9	100.8	97.7	93.5	59.9	46.2	35.7
85°	23.1	21.0	22.1	22.1	17.9	13.7	13.7	6.3	0.0	0.0
87.5°	11.6	9.5	9.5	8.4	5.3	2.1	1.1	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°
60.9	0°	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
56.7	2.5°	55.7	55.7	53.6	51.5	50.4	48.3	47.3	46.2	45.2	44.1
60.9	5°	58.8	57.8	54.6	51.5	48.3	45.2	43.1	41.0	38.9	37.8
67.2	7.5°	64.1	62.0	55.7	50.4	46.2	42.0	39.9	36.8	34.7	31.5
74.6	10°	70.4	66.2	57.8	51.5	45.2	39.9	36.8	33.6	30.5	26.3
85.1	12.5°	78.8	71.4	60.9	50.4	43.1	36.8	33.6	29.4	26.3	23.1
98.7	15°	86.1	76.7	62.0	50.4	41.0	33.6	29.4	25.2	22.1	17.9
123.9	17.5°	96.6	80.9	60.9	47.3	37.8	29.4	25.2	22.1	16.8	10.5
183.8	20°	114.5	84.0	58.8	44.1	32.6	24.2	18.9	14.7	7.4	2.1
276.2	22.5°	142.8	92.4	56.7	39.9	28.4	18.9	12.6	5.3	0.0	0.0
420.1	25°	197.4	107.1	56.7	37.8	25.2	13.7	4.2	0.0	0.0	0.0
596.5	27.5°	262.6	127.1	56.7	32.6	20.0	7.4	0.0	0.0	0.0	0.0
812.9	30°	328.7	149.1	56.7	28.4	15.8	1.1	0.0	0.0	0.0	0.0
1000.9	32.5°	391.7	168.0	57.8	24.2	10.5	0.0	0.0	0.0	0.0	0.0
1261.3	35°	455.8	171.2	56.7	21.0	6.3	0.0	0.0	0.0	0.0	0.0
1580.6	37.5°	537.7	164.9	53.6	18.9	3.2	0.0	0.0	0.0	0.0	0.0
2079.5	40°	661.7	168.0	50.4	17.9	1.1	0.0	0.0	0.0	0.0	0.0
2969.0	42.5°	890.6	181.7	46.2	17.9	0.0	0.0	0.0	0.0	0.0	0.0
4729.3	45°	1539.7	243.7	42.0	18.9	0.0	0.0	0.0	0.0	0.0	0.0
7099.7	47.5°	2546.9	438.0	41.0	18.9	0.0	0.0	0.0	0.0	0.0	0.0
8552.2	50°	3250.5	551.4	43.1	20.0	0.0	0.0	0.0	0.0	0.0	0.0
8733.9	52.5°	3245.3	614.4	45.2	21.0	4.2	0.0	0.0	0.0	0.0	0.0
8050.1	55°	2885.0	625.9	48.3	23.1	13.7	0.0	0.0	0.0	0.0	0.0
6918.0	57.5°	2411.4	571.3	55.7	28.4	25.2	0.0	0.0	0.0	0.0	0.0
6740.5	58°	2327.3	546.1	57.8	29.4	27.3	0.0	0.0	0.0	0.0	0.0
5846.7	60°	1907.2	445.3	73.5	36.8	36.8	0.0	0.0	0.0	0.0	0.0
4793.3	62.5°	1317.0	388.6	84.0	47.3	37.8	0.0	0.0	0.0	0.0	0.0
3534.1	65°	931.6	350.8	91.4	50.4	30.5	0.0	0.0	0.0	0.0	0.0
2511.1	67.5°	696.3	323.5	100.8	51.5	15.8	0.0	0.0	0.0	0.0	0.0
1575.4	70°	533.5	303.5	123.9	54.6	4.2	0.0	0.0	0.0	0.0	0.0
938.9	72.5°	434.8	280.4	150.2	56.7	0.0	0.0	0.0	0.0	0.0	0.0
562.9	75°	360.2	253.1	144.9	62.0	0.0	0.0	0.0	0.0	0.0	0.0
300.4	77.5°	239.5	196.4	132.3	62.0	0.0	0.0	0.0	0.0	0.0	0.0
107.1	80°	84.0	77.7	102.9	54.6	0.0	0.0	0.0	0.0	0.0	0.0
22.1	82.5°	12.6	10.5	14.7	18.9	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°
60.9	0°	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
43.1	2.5°	43.1	43.1	42.0	43.1	43.1	45.2	50.4	57.8	66.2	69.3
36.8	5°	35.7	34.7	33.6	33.6	33.6	36.8	41.0	49.4	58.8	63.0
30.5	7.5°	29.4	28.4	27.3	26.3	26.3	28.4	33.6	43.1	52.5	56.7
25.2	10°	24.2	22.1	21.0	20.0	20.0	22.1	27.3	36.8	47.3	51.5
21.0	12.5°	20.0	16.8	14.7	13.7	12.6	15.8	21.0	29.4	41.0	46.2
15.8	15°	13.7	10.5	7.4	6.3	5.3	8.4	13.7	23.1	34.7	41.0
8.4	17.5°	7.4	3.2	1.1	0.0	0.0	2.1	6.3	16.8	28.4	33.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	21.0	26.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	12.6	17.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	9.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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	3.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.4
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°
60.9	0°	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
72.5	2.5°	74.6	73.5	71.4	69.3	69.3	69.3	72.5	75.6	78.8	78.8
65.1	5°	69.3	69.3	68.3	66.2	66.2	67.2	71.4	76.7	80.9	81.9
59.9	7.5°	64.1	66.2	64.1	63.0	64.1	65.1	69.3	75.6	81.9	84.0
55.7	10°	60.9	62.0	62.0	60.9	60.9	63.0	67.2	75.6	84.0	87.2
50.4	12.5°	56.7	58.8	57.8	57.8	57.8	59.9	65.1	74.6	86.1	90.3
45.2	15°	52.5	55.7	55.7	54.6	54.6	55.7	63.0	73.5	89.3	96.6
38.9	17.5°	48.3	51.5	52.5	50.4	50.4	52.5	59.9	73.5	91.4	104.0
31.5	20°	39.9	45.2	48.3	45.2	45.2	47.3	54.6	69.3	92.4	111.3
23.1	22.5°	31.5	36.8	41.0	39.9	39.9	41.0	50.4	66.2	93.5	123.9
13.7	25°	23.1	28.4	31.5	33.6	33.6	36.8	46.2	64.1	97.7	150.2
6.3	27.5°	13.7	20.0	24.2	26.3	27.3	31.5	43.1	62.0	105.0	188.0
0.0	30°	6.3	11.6	16.8	21.0	21.0	28.4	39.9	59.9	114.5	242.6
0.0	32.5°	0.0	5.3	8.4	14.7	15.8	23.1	36.8	57.8	128.1	295.1
0.0	35°	0.0	0.0	4.2	11.6	11.6	18.9	33.6	55.7	149.1	335.0
0.0	37.5°	0.0	0.0	0.0	8.4	9.5	16.8	32.6	54.6	153.3	338.2
0.0	40°	0.0	0.0	0.0	6.3	7.4	15.8	32.6	55.7	138.6	330.8
0.0	42.5°	0.0	0.0	0.0	4.2	5.3	15.8	32.6	57.8	125.0	339.2
0.0	45°	0.0	0.0	0.0	3.2	4.2	16.8	31.5	56.7	117.6	383.3
0.0	47.5°	0.0	0.0	0.0	4.2	6.3	16.8	30.5	55.7	118.7	529.3
0.0	50°	0.0	0.0	0.0	5.3	7.4	16.8	31.5	53.6	130.2	813.9
0.0	52.5°	0.0	0.0	0.0	4.2	6.3	18.9	34.7	52.5	141.8	1058.6
0.0	55°	0.0	0.0	0.0	1.1	3.2	24.2	37.8	52.5	159.6	1119.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	27.3	43.1	55.7	189.0	1095.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	27.3	44.1	55.7	191.1	1074.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	27.3	48.3	62.0	205.8	956.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	23.1	57.8	77.7	214.3	752.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	18.9	68.3	85.1	220.6	598.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	17.9	70.4	86.1	223.7	476.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	18.9	69.3	92.4	234.2	387.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	21.0	63.0	101.9	234.2	343.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	22.1	58.8	114.5	213.2	297.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	21.0	57.8	133.4	190.1	244.7
0.0	80°	2.1	3.2	3.2	2.1	2.1	17.9	56.7	135.5	161.7	168.0
1.1	82.5°	6.3	8.4	7.4	5.3	5.3	15.8	50.4	113.4	84.0	72.5
6.3	85°	11.6	13.7	13.7	11.6	11.6	14.7	31.5	41.0	28.4	23.1
11.6	87.5°	15.8	17.9	17.9	15.8	15.8	14.7	13.7	12.6	11.6	11.6
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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

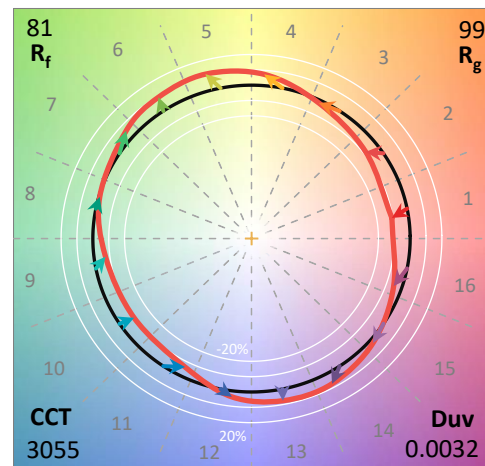
Test Information

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

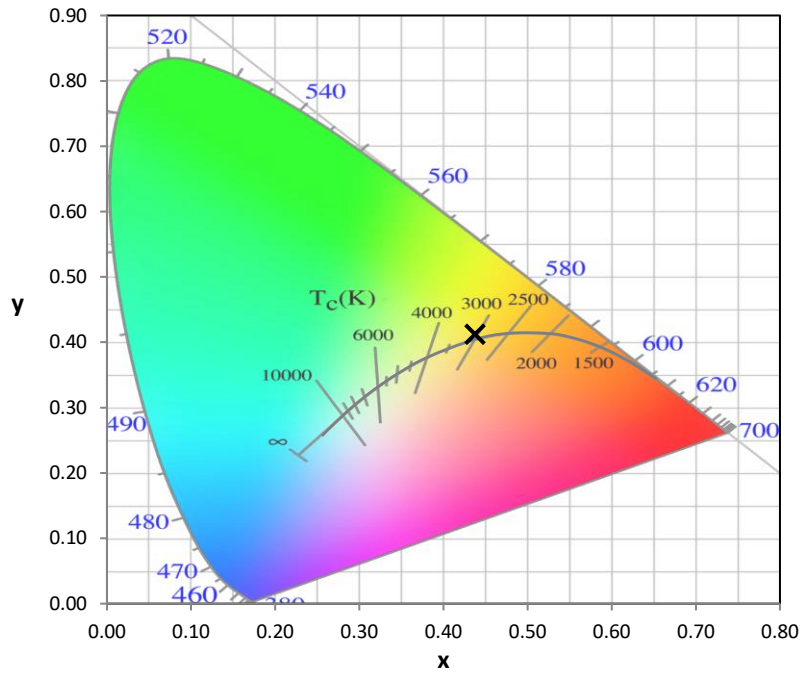
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

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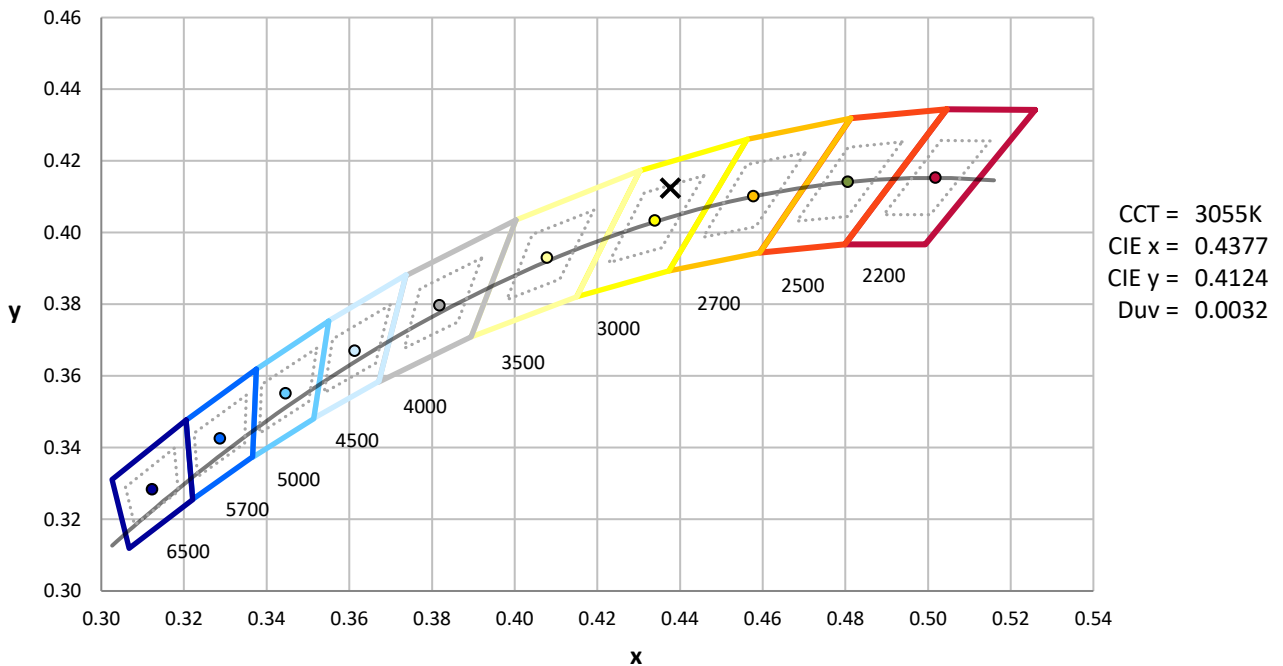
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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Photopic Flux vs. Wavelength

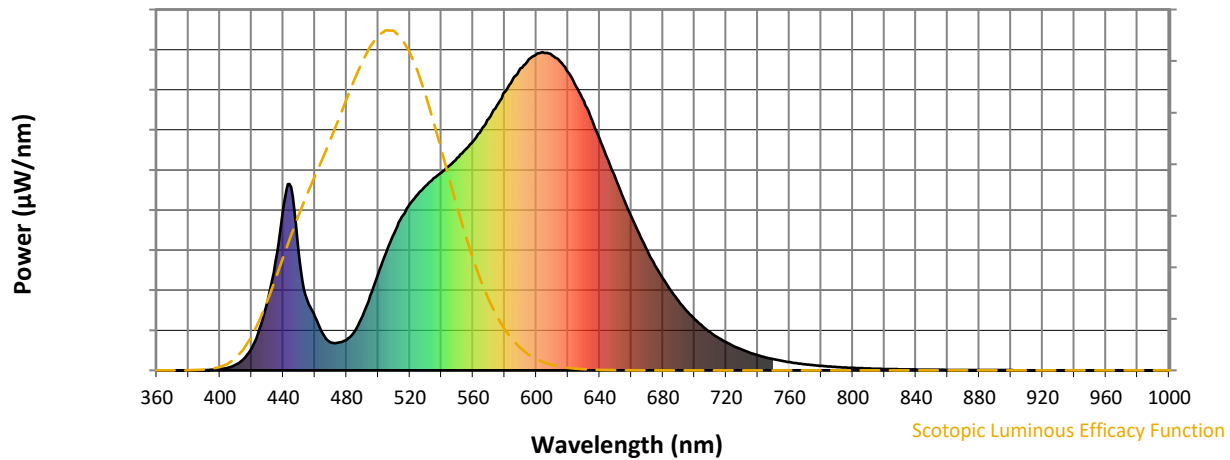


Photopic Lumens: NR

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	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



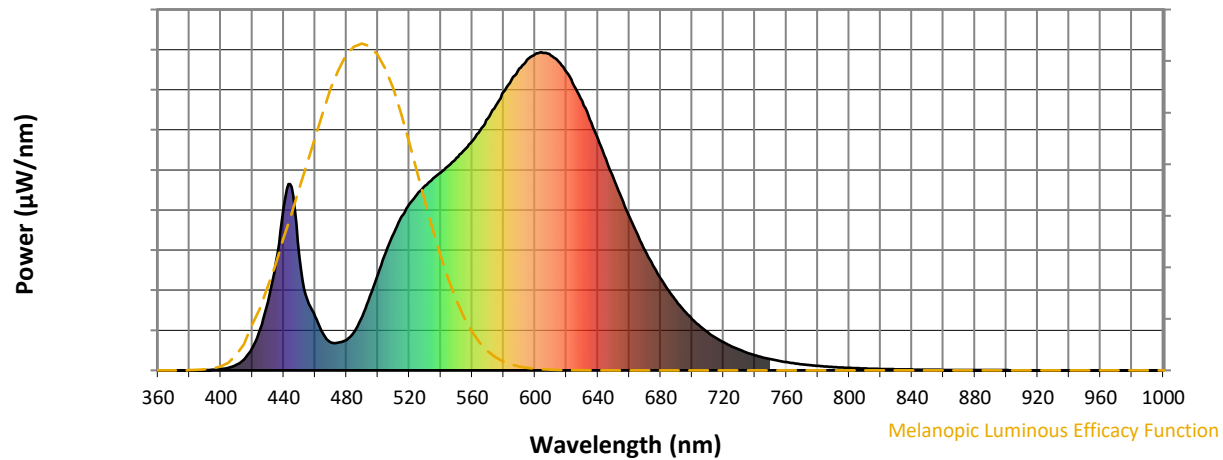
Scotopic Lumens: NR

S/P: 1.28

λ (nm)	Power 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			

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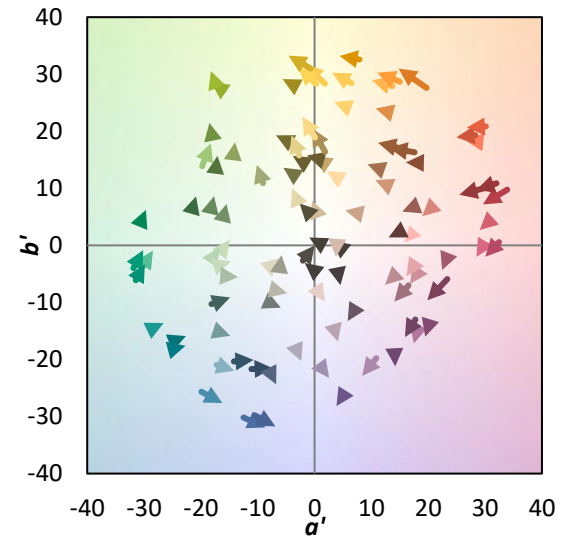
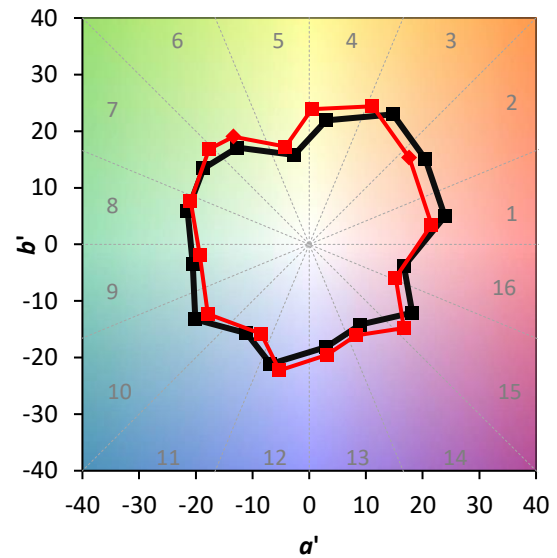
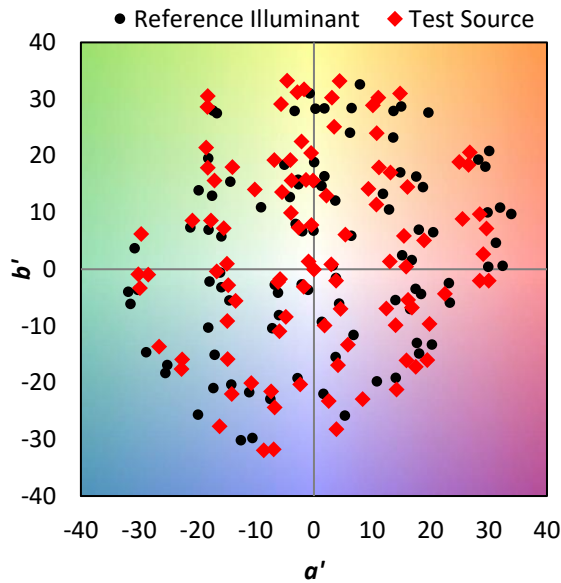
TM-30-18

Summary

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

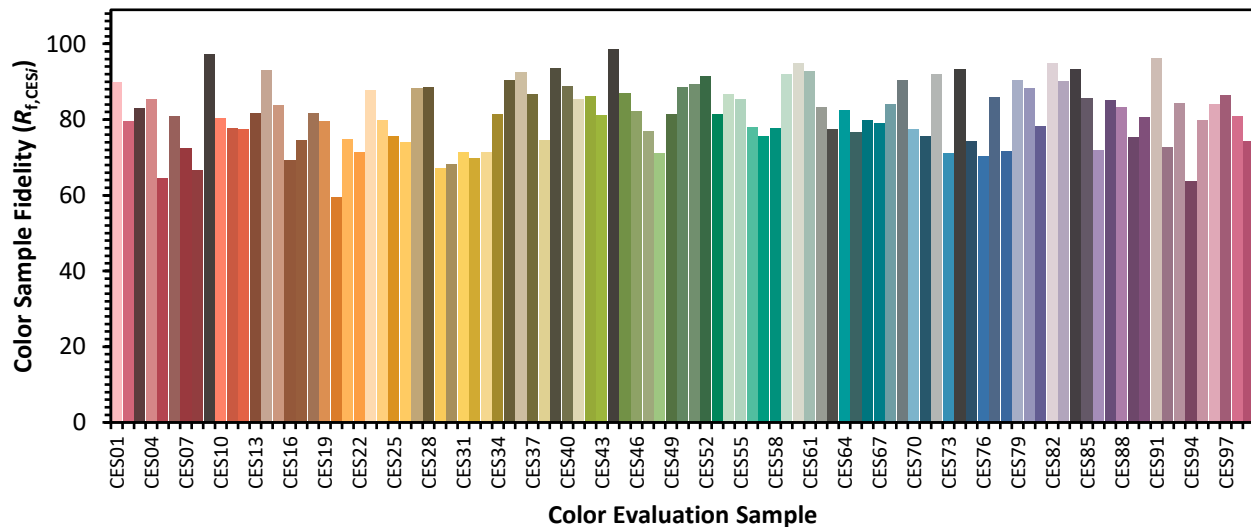


Color Vector Graphics

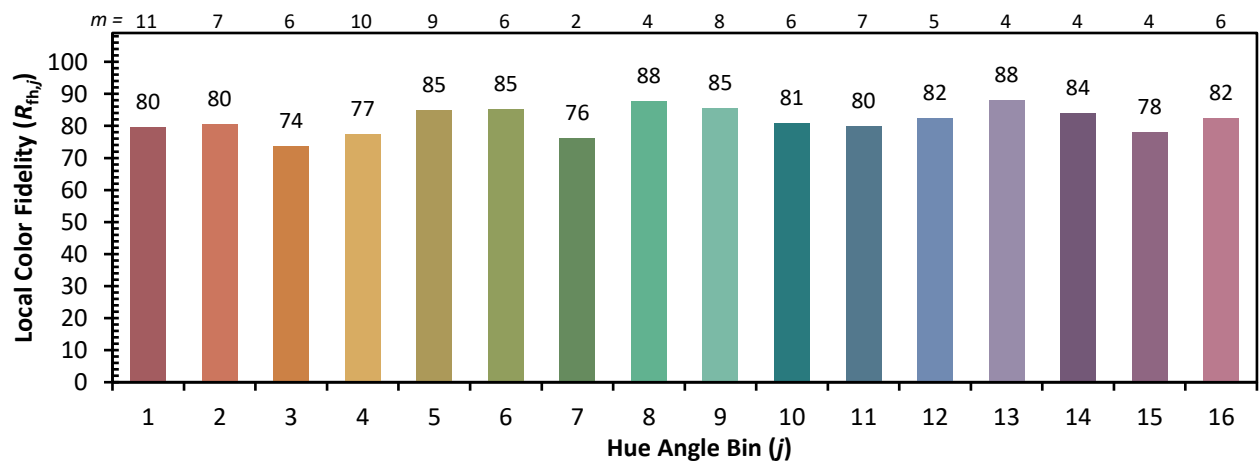
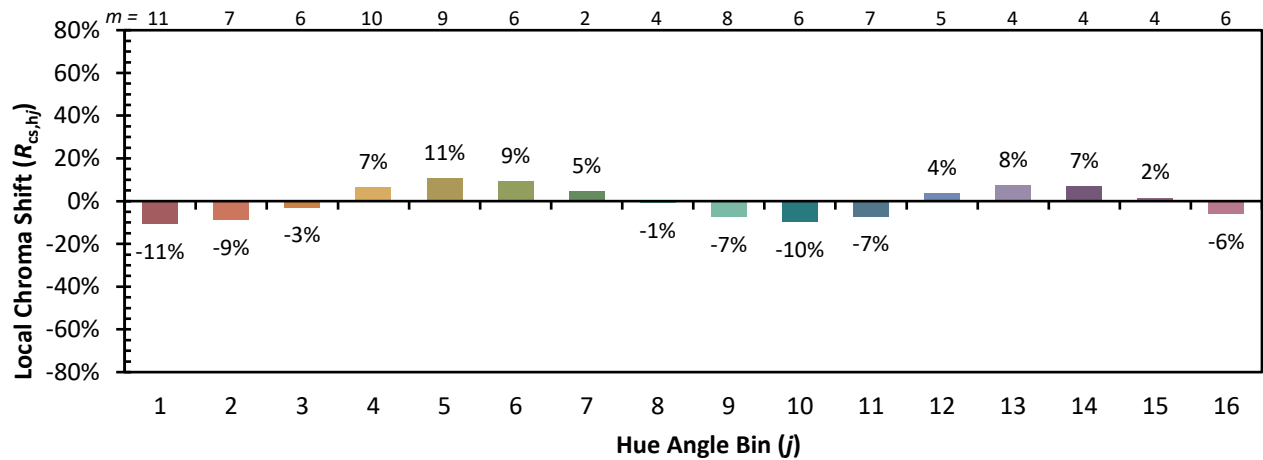


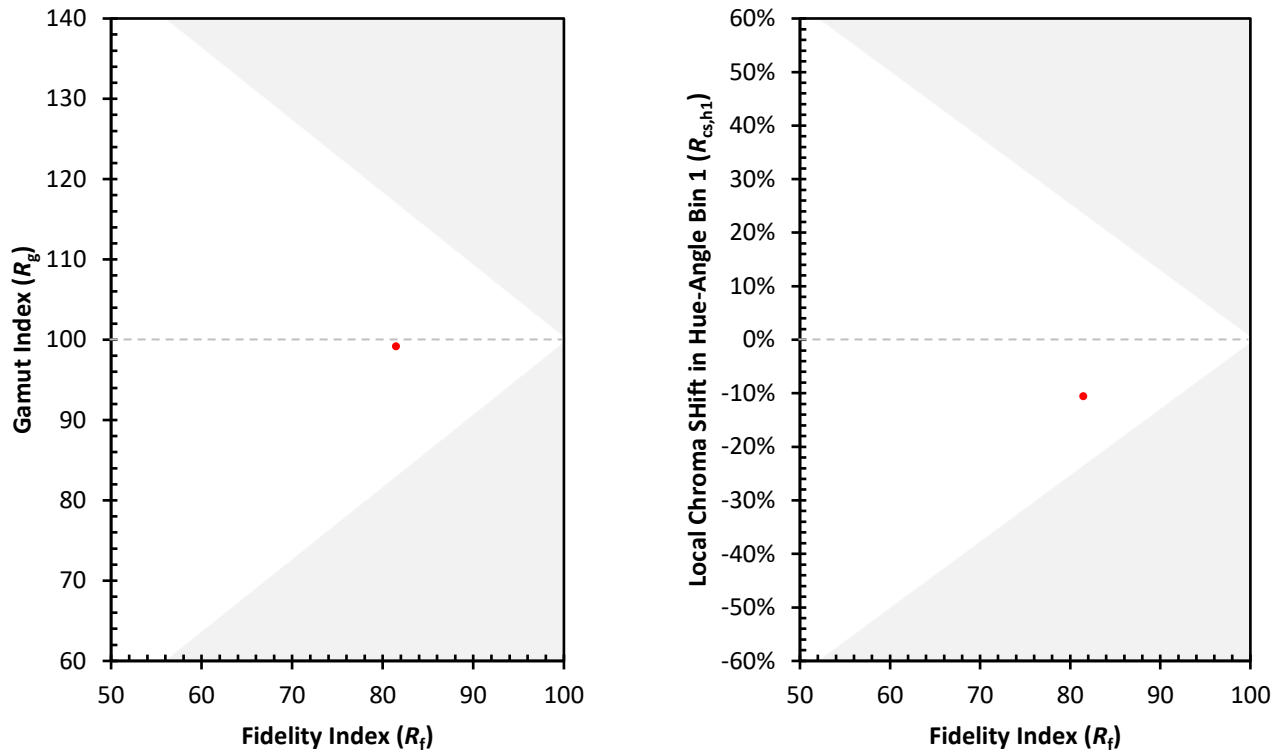
Individual Sample Fidelity Index ($R_{f,i}$)

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)