

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: P1049770

Luminaire Tested: **GALN-SA6B-830-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049770
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21874.8 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

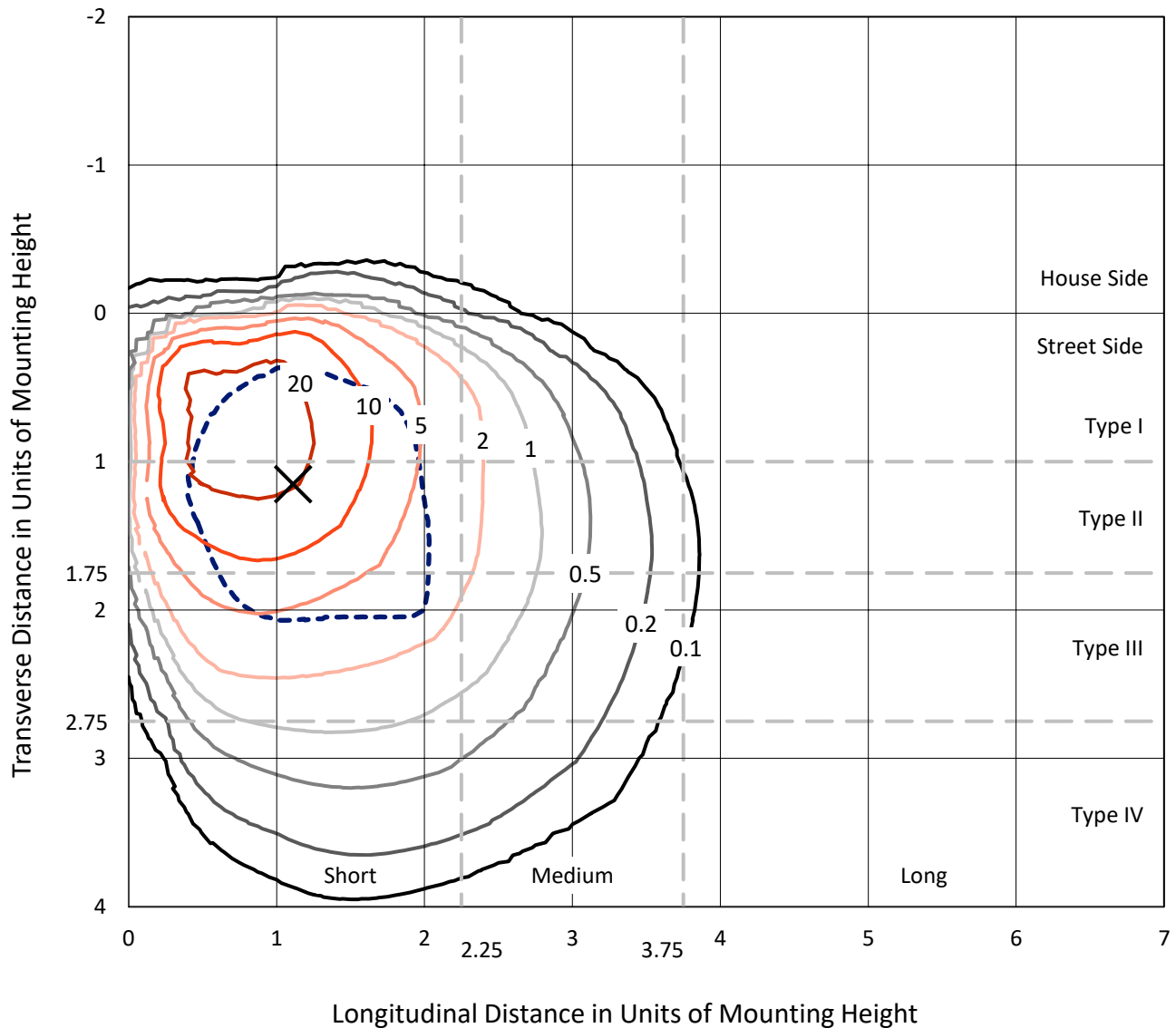
Input Watts (W): 213.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

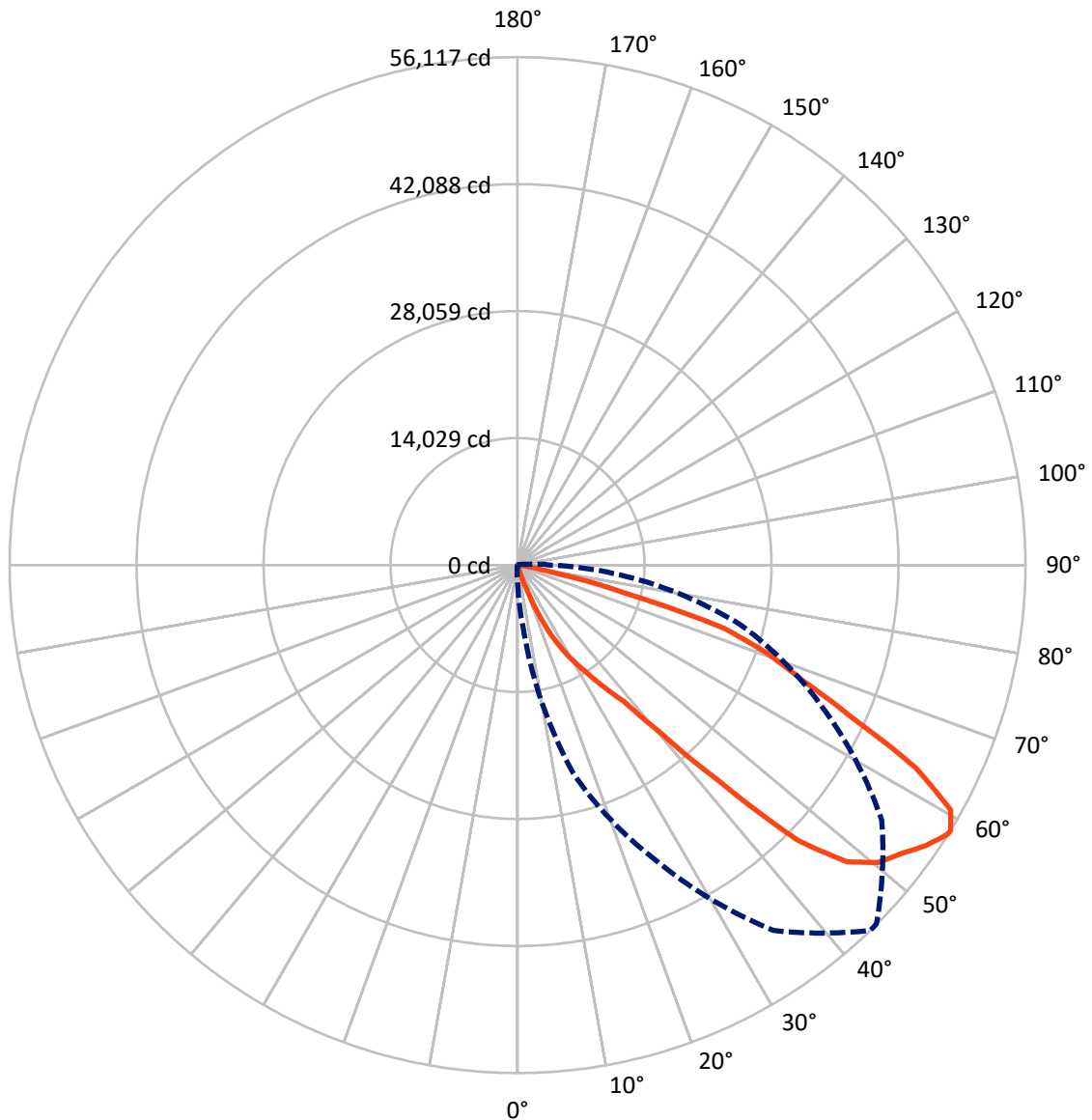
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.1 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	149.4	0.0	149.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	21725.5	0.0	21725.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	21874.8	0.0	21874.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.0
10°-20°	48.0	0.2
20°-30°	518.2	2.4
30°-40°	1532.5	7.0
40°-50°	4567.8	20.9
50°-60°	7248.0	33.1
60°-70°	6045.7	27.6
70°-80°	1864.6	8.5
80°-90°	41.4	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°	21874.8	100.0
0°-180°	21874.8	100.0



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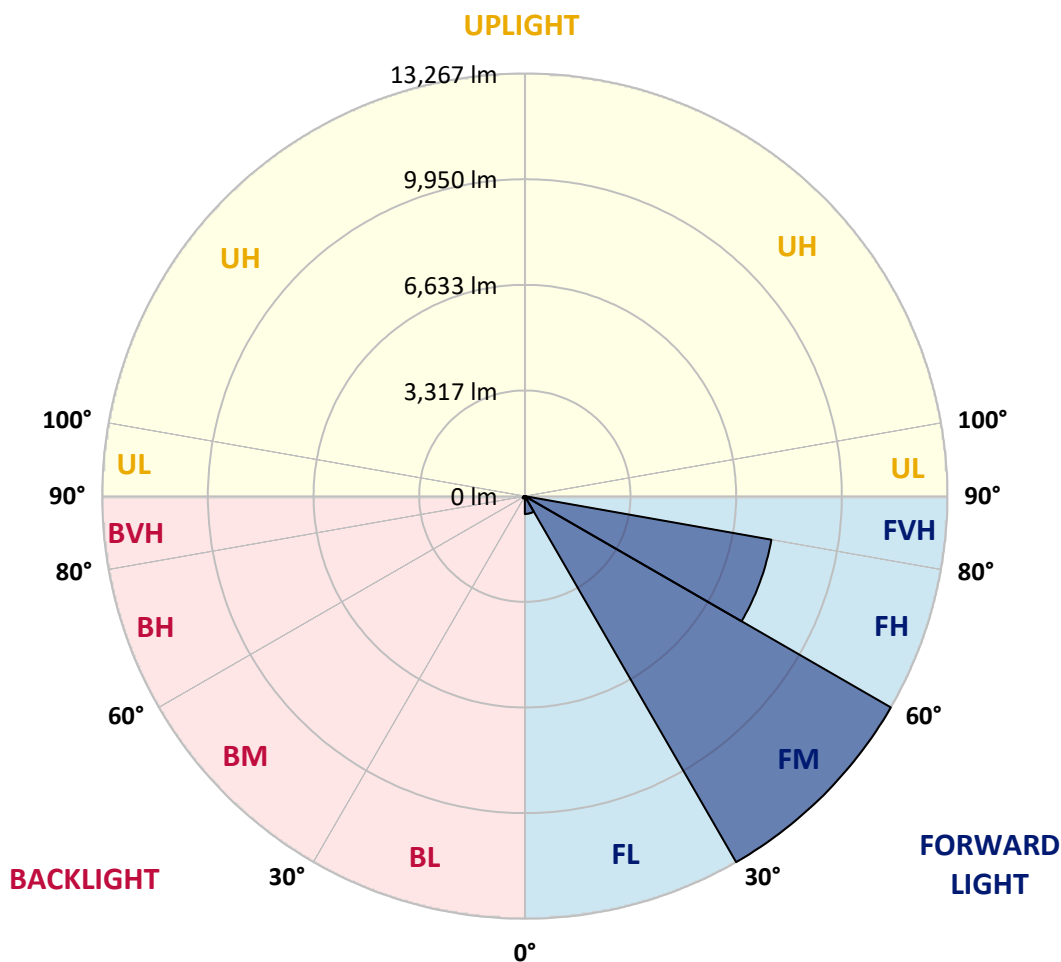
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.1	2.6			
FM	(30°-60°)	13266.6	60.6			
FH	(60°-80°)	7859.3	35.9			G4/12000
FVH	(80°-90°)	39.4	0.2			G1/100
BL	(0°-30°)	14.6	0.1	B0/110		
BM	(30°-60°)	81.7	0.4	B0/220		
BH	(60°-80°)	51.0	0.2	B0/110		G0/110
BVH	(80°-90°)	2.0	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
2.5°	123.9	123.9	119.0	112.4	105.8	99.1	97.5	94.2	92.5	90.9
5°	128.9	128.9	127.2	122.3	115.7	110.7	110.7	105.8	102.5	99.1
7.5°	132.2	133.8	137.2	135.5	132.2	127.2	127.2	123.9	119.0	110.7
10°	137.2	142.1	148.7	152.0	153.7	153.7	152.0	150.4	142.1	130.5
12.5°	142.1	152.0	168.6	185.1	195.0	208.2	206.6	203.3	181.8	157.0
15°	152.0	166.9	201.6	249.5	323.9	370.2	388.3	371.8	300.7	211.5
17.5°	163.6	188.4	292.5	522.2	856.0	1014.6	1110.5	1032.8	684.1	401.5
20°	175.2	229.7	543.7	1353.4	2220.9	2739.8	2883.5	2658.8	1707.0	765.1
22.5°	195.0	322.2	1102.2	2797.6	4785.5	5563.8	5710.9	4992.1	3223.9	1510.3
25°	236.3	467.6	1900.3	4559.1	7141.9	8455.6	8394.5	7452.6	5230.0	2412.6
27.5°	295.8	680.8	2873.6	6477.6	9399.2	10557.5	10696.4	9531.4	6971.7	3547.8
30°	381.7	943.6	3918.0	8014.4	11208.6	12461.2	12484.3	11279.7	8530.0	4544.3
32.5°	464.3	1191.4	4831.8	9500.0	12991.6	14364.8	14467.3	12985.0	9693.3	5582.0
35°	527.1	1353.4	5757.2	10805.4	14789.5	16681.5	16674.9	14915.1	11071.5	6509.0
37.5°	532.1	1515.3	6595.0	12140.6	17066.6	19185.0	19394.9	17454.9	12737.1	7655.8
40°	520.5	1697.1	7655.8	14222.7	21169.6	24420.0	24605.1	22159.4	16078.4	9618.9
42.5°	533.7	2012.7	9377.7	18068.0	27982.7	32650.9	33007.8	30436.6	22220.6	13624.5
45°	603.1	2605.9	12985.0	24501.0	37694.2	43385.2	43266.3	39563.1	29367.5	19722.1
47.5°	832.8	4058.4	18332.4	30762.1	43900.8	48968.9	49071.3	44545.3	33538.3	24410.1
50°	1280.7	6209.9	22825.4	34072.0	46569.5	51654.1	51558.3	46328.3	35123.0	26718.6
52.5°	1665.7	7766.5	25079.3	35233.7	46911.6	52981.1	52974.5	46797.6	35369.2	26916.9
55°	1761.5	7883.9	25097.5	35296.5	47678.3	54717.8	54935.9	47952.6	35688.1	26051.0
57.5°	1723.5	6980.0	24049.9	35660.0	49043.3	56061.2	56072.8	49071.3	36497.8	25520.5
58°	1690.5	6837.9	23838.3	35866.6	49277.9	56117.4	56089.3	49122.6	37157.1	25500.7
60°	1505.4	5937.3	23013.8	36393.7	48929.2	54964.0	54701.3	48003.9	37059.6	25297.5
62.5°	1183.2	4631.8	22202.4	35783.9	45191.4	49380.4	49489.4	42499.5	33784.5	24112.6
65°	941.9	3452.0	20510.3	31388.4	37213.3	40551.3	40957.8	34559.5	28199.2	20417.8
67.5°	750.2	2495.2	17205.4	24990.1	29446.8	33844.0	34139.8	29015.5	21847.1	15643.8
70°	609.8	1687.2	11876.2	18276.2	24287.8	29232.0	29250.1	24104.4	16306.4	10250.2
72.5°	540.4	1168.3	6894.0	13328.7	19694.0	23820.2	23339.3	19560.1	12532.2	6071.1
75°	467.6	775.0	3380.9	8148.3	11940.7	12021.6	12205.0	9073.6	6264.5	2886.8
77.5°	385.0	550.3	1331.9	2225.9	3580.9	4583.9	4754.1	3602.4	2083.7	710.6
80°	264.4	261.1	358.6	682.5	1024.5	1284.0	1198.0	927.0	545.3	272.7
82.5°	114.0	123.9	161.9	195.0	158.6	153.7	147.1	94.2	72.7	56.2
85°	36.4	33.0	34.7	34.7	28.1	21.5	21.5	9.9	0.0	0.0
87.5°	18.2	14.9	14.9	13.2	8.3	3.3	1.7	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°
95.8	0°	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
89.2	2.5°	87.6	87.6	84.3	81.0	79.3	76.0	74.4	72.7	71.1	69.4
95.8	5°	92.5	90.9	85.9	81.0	76.0	71.1	67.8	64.4	61.1	59.5
105.8	7.5°	100.8	97.5	87.6	79.3	72.7	66.1	62.8	57.8	54.5	49.6
117.3	10°	110.7	104.1	90.9	81.0	71.1	62.8	57.8	52.9	47.9	41.3
133.8	12.5°	123.9	112.4	95.8	79.3	67.8	57.8	52.9	46.3	41.3	36.4
155.3	15°	135.5	120.6	97.5	79.3	64.4	52.9	46.3	39.7	34.7	28.1
195.0	17.5°	152.0	127.2	95.8	74.4	59.5	46.3	39.7	34.7	26.4	16.5
289.2	20°	180.1	132.2	92.5	69.4	51.2	38.0	29.7	23.1	11.6	3.3
434.6	22.5°	224.7	145.4	89.2	62.8	44.6	29.7	19.8	8.3	0.0	0.0
661.0	25°	310.7	168.6	89.2	59.5	39.7	21.5	6.6	0.0	0.0	0.0
938.6	27.5°	413.1	199.9	89.2	51.2	31.4	11.6	0.0	0.0	0.0	0.0
1279.0	30°	517.2	234.6	89.2	44.6	24.8	1.7	0.0	0.0	0.0	0.0
1574.8	32.5°	616.4	264.4	90.9	38.0	16.5	0.0	0.0	0.0	0.0	0.0
1984.6	35°	717.2	269.4	89.2	33.0	9.9	0.0	0.0	0.0	0.0	0.0
2486.9	37.5°	846.1	259.4	84.3	29.7	5.0	0.0	0.0	0.0	0.0	0.0
3271.9	40°	1041.0	264.4	79.3	28.1	1.7	0.0	0.0	0.0	0.0	0.0
4671.5	42.5°	1401.3	285.9	72.7	28.1	0.0	0.0	0.0	0.0	0.0	0.0
7441.0	45°	2422.5	383.4	66.1	29.7	0.0	0.0	0.0	0.0	0.0	0.0
11170.6	47.5°	4007.2	689.1	64.4	29.7	0.0	0.0	0.0	0.0	0.0	0.0
13456.0	50°	5114.4	867.5	67.8	31.4	0.0	0.0	0.0	0.0	0.0	0.0
13741.8	52.5°	5106.1	966.7	71.1	33.0	6.6	0.0	0.0	0.0	0.0	0.0
12666.1	55°	4539.3	984.9	76.0	36.4	21.5	0.0	0.0	0.0	0.0	0.0
10884.7	57.5°	3794.0	898.9	87.6	44.6	39.7	0.0	0.0	0.0	0.0	0.0
10605.5	58°	3661.8	859.3	90.9	46.3	43.0	0.0	0.0	0.0	0.0	0.0
9199.2	60°	3000.9	700.6	115.7	57.8	57.8	0.0	0.0	0.0	0.0	0.0
7541.8	62.5°	2072.2	611.4	132.2	74.4	59.5	0.0	0.0	0.0	0.0	0.0
5560.5	65°	1465.7	551.9	143.8	79.3	47.9	0.0	0.0	0.0	0.0	0.0
3951.0	67.5°	1095.6	509.0	158.6	81.0	24.8	0.0	0.0	0.0	0.0	0.0
2478.7	70°	839.4	477.6	195.0	85.9	6.6	0.0	0.0	0.0	0.0	0.0
1477.3	72.5°	684.1	441.2	236.3	89.2	0.0	0.0	0.0	0.0	0.0	0.0
885.7	75°	566.8	398.2	228.0	97.5	0.0	0.0	0.0	0.0	0.0	0.0
472.6	77.5°	376.8	309.0	208.2	97.5	0.0	0.0	0.0	0.0	0.0	0.0
168.6	80°	132.2	122.3	161.9	85.9	0.0	0.0	0.0	0.0	0.0	0.0
34.7	82.5°	19.8	16.5	23.1	29.7	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°
95.8	0°	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
67.8	2.5°	67.8	67.8	66.1	67.8	67.8	71.1	79.3	90.9	104.1	109.1
57.8	5°	56.2	54.5	52.9	52.9	52.9	57.8	64.4	77.7	92.5	99.1
47.9	7.5°	46.3	44.6	43.0	41.3	41.3	44.6	52.9	67.8	82.6	89.2
39.7	10°	38.0	34.7	33.0	31.4	31.4	34.7	43.0	57.8	74.4	81.0
33.0	12.5°	31.4	26.4	23.1	21.5	19.8	24.8	33.0	46.3	64.4	72.7
24.8	15°	21.5	16.5	11.6	9.9	8.3	13.2	21.5	36.4	54.5	64.4
13.2	17.5°	11.6	5.0	1.7	0.0	0.0	3.3	9.9	26.4	44.6	52.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	33.0	41.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	19.8	28.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	14.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
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	5.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2
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°
95.8	0°	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
114.0	2.5°	117.3	115.7	112.4	109.1	109.1	109.1	114.0	119.0	123.9	123.9
102.5	5°	109.1	109.1	107.4	104.1	104.1	105.8	112.4	120.6	127.2	128.9
94.2	7.5°	100.8	104.1	100.8	99.1	100.8	102.5	109.1	119.0	128.9	132.2
87.6	10°	95.8	97.5	97.5	95.8	95.8	99.1	105.8	119.0	132.2	137.2
79.3	12.5°	89.2	92.5	90.9	90.9	90.9	94.2	102.5	117.3	135.5	142.1
71.1	15°	82.6	87.6	87.6	85.9	85.9	87.6	99.1	115.7	140.5	152.0
61.1	17.5°	76.0	81.0	82.6	79.3	79.3	82.6	94.2	115.7	143.8	163.6
49.6	20°	62.8	71.1	76.0	71.1	71.1	74.4	85.9	109.1	145.4	175.2
36.4	22.5°	49.6	57.8	64.4	62.8	62.8	64.4	79.3	104.1	147.1	195.0
21.5	25°	36.4	44.6	49.6	52.9	52.9	57.8	72.7	100.8	153.7	236.3
9.9	27.5°	21.5	31.4	38.0	41.3	43.0	49.6	67.8	97.5	165.2	295.8
0.0	30°	9.9	18.2	26.4	33.0	33.0	44.6	62.8	94.2	180.1	381.7
0.0	32.5°	0.0	8.3	13.2	23.1	24.8	36.4	57.8	90.9	201.6	464.3
0.0	35°	0.0	0.0	6.6	18.2	18.2	29.7	52.9	87.6	234.6	527.1
0.0	37.5°	0.0	0.0	0.0	13.2	14.9	26.4	51.2	85.9	241.3	532.1
0.0	40°	0.0	0.0	0.0	9.9	11.6	24.8	51.2	87.6	218.1	520.5
0.0	42.5°	0.0	0.0	0.0	6.6	8.3	24.8	51.2	90.9	196.6	533.7
0.0	45°	0.0	0.0	0.0	5.0	6.6	26.4	49.6	89.2	185.1	603.1
0.0	47.5°	0.0	0.0	0.0	6.6	9.9	26.4	47.9	87.6	186.7	832.8
0.0	50°	0.0	0.0	0.0	8.3	11.6	26.4	49.6	84.3	204.9	1280.7
0.0	52.5°	0.0	0.0	0.0	6.6	9.9	29.7	54.5	82.6	223.1	1665.7
0.0	55°	0.0	0.0	0.0	1.7	5.0	38.0	59.5	82.6	251.2	1761.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	43.0	67.8	87.6	297.4	1723.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	43.0	69.4	87.6	300.7	1690.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	43.0	76.0	97.5	323.9	1505.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	36.4	90.9	122.3	337.1	1183.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	29.7	107.4	133.8	347.0	941.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	28.1	110.7	135.5	352.0	750.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	29.7	109.1	145.4	368.5	609.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	33.0	99.1	160.3	368.5	540.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	34.7	92.5	180.1	335.4	467.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	33.0	90.9	209.9	299.1	385.0
0.0	80°	3.3	5.0	5.0	3.3	3.3	28.1	89.2	213.2	254.5	264.4
1.7	82.5°	9.9	13.2	11.6	8.3	8.3	24.8	79.3	178.5	132.2	114.0
9.9	85°	18.2	21.5	21.5	18.2	18.2	23.1	49.6	64.4	44.6	36.4
18.2	87.5°	24.8	28.1	28.1	24.8	24.8	23.1	21.5	19.8	18.2	18.2
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: SP1-2407-184-9

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

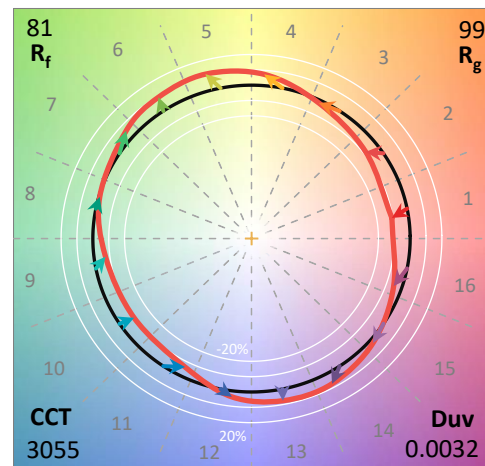
Test Information

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

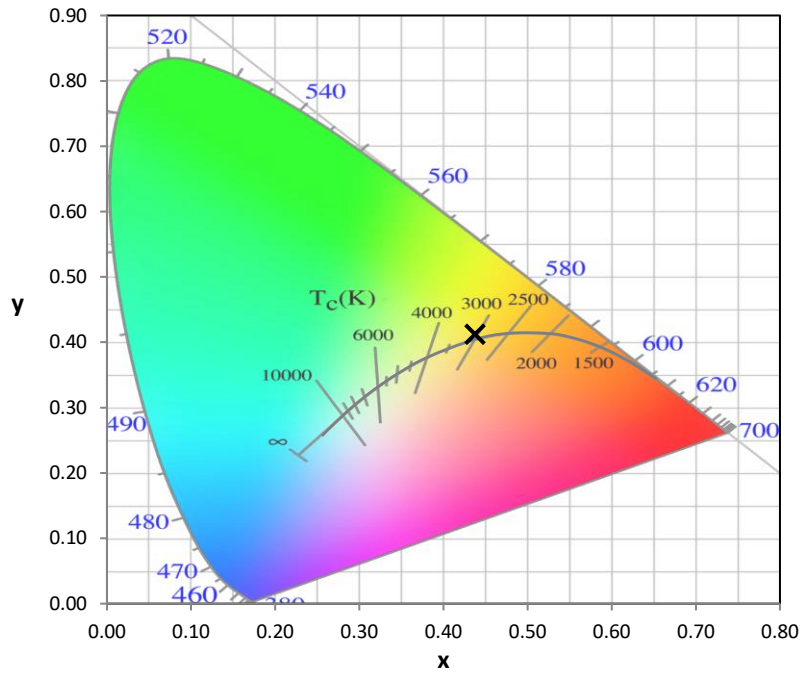
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

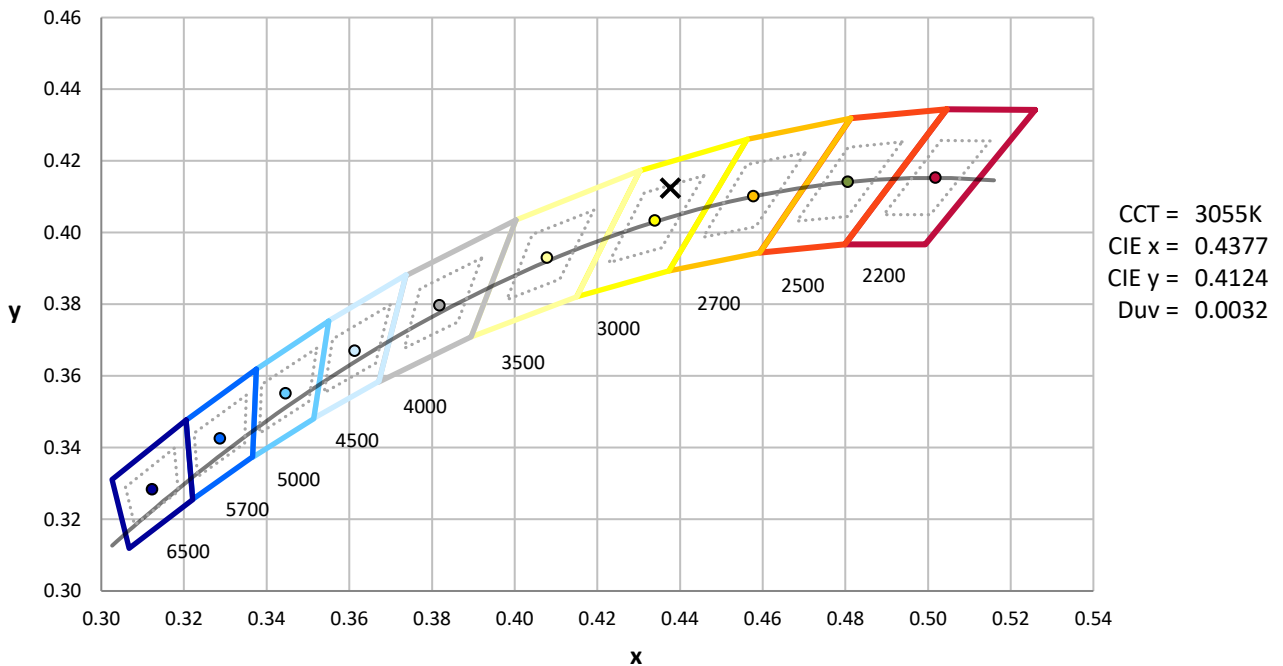
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

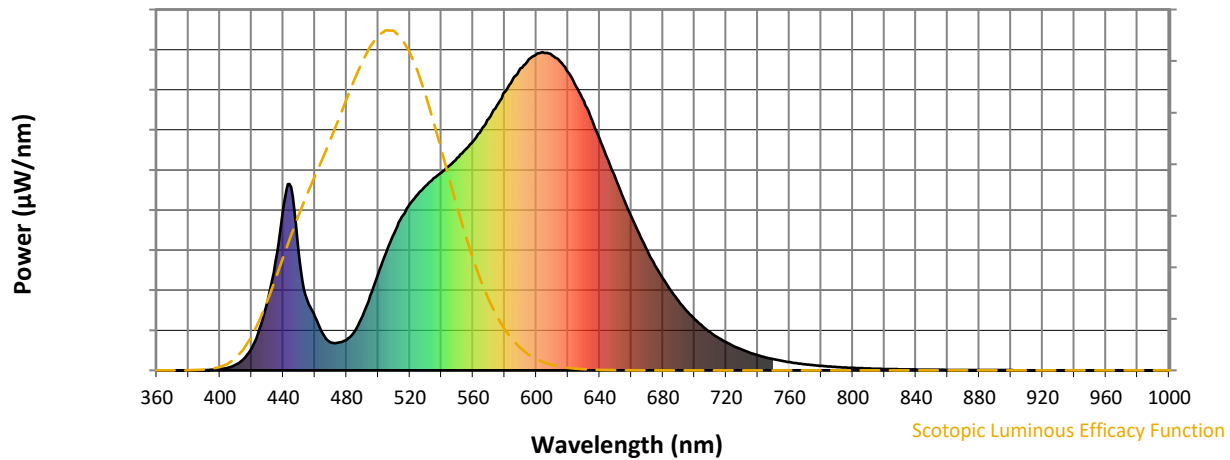


Photopic Lumens: NR

λ (nm)	Power W/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



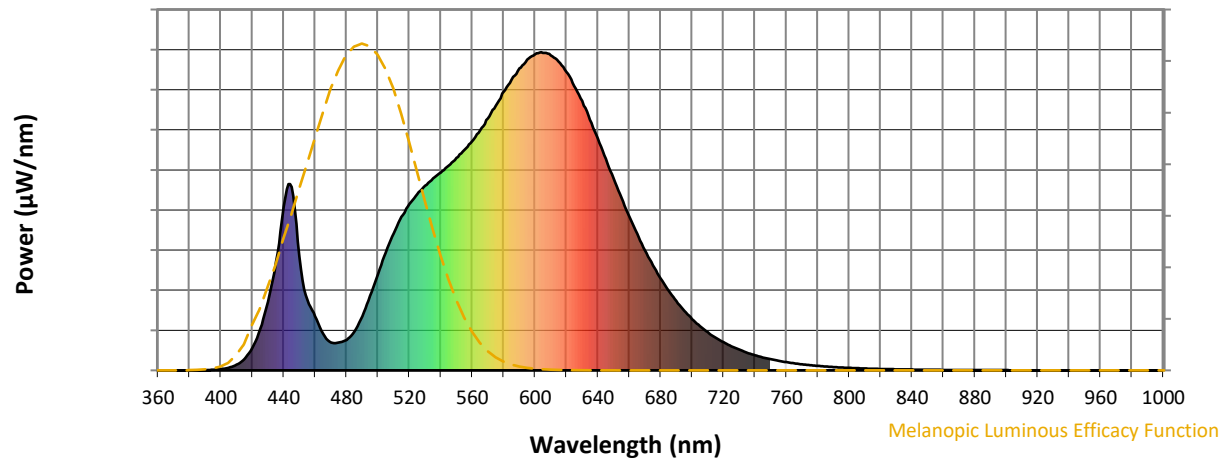
Scotopic Lumens: NR

S/P: 1.28

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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			

REPORT NUMBER: SP1-2407-184-9

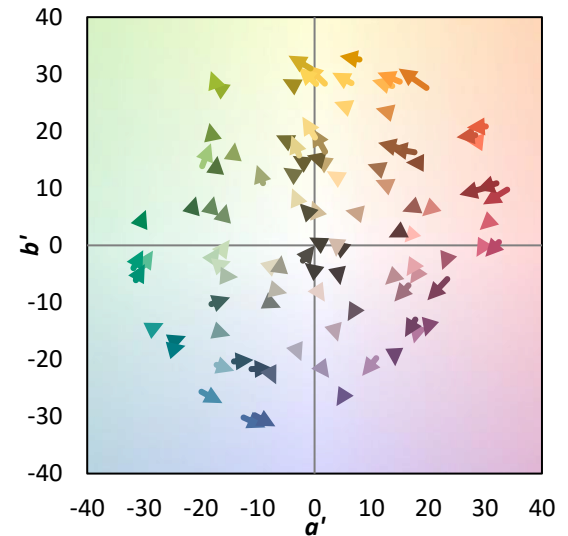
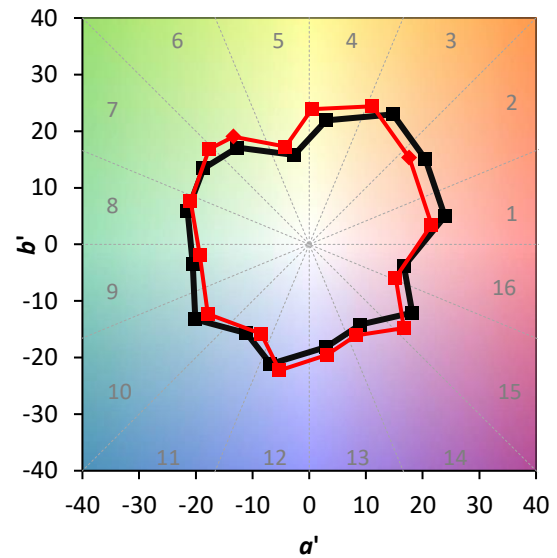
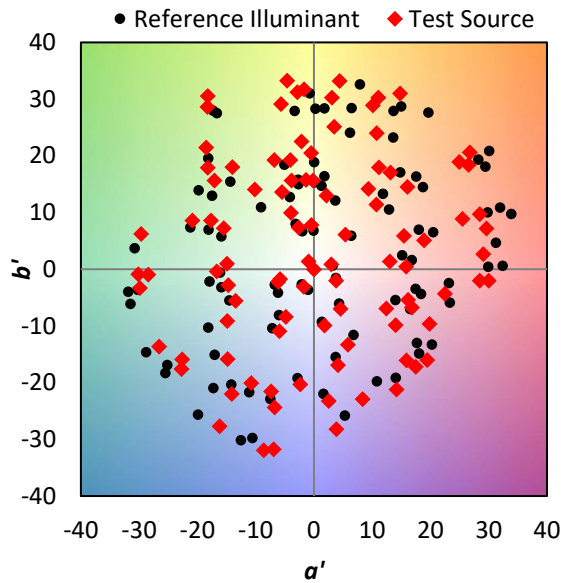
TM-30-18

Summary

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

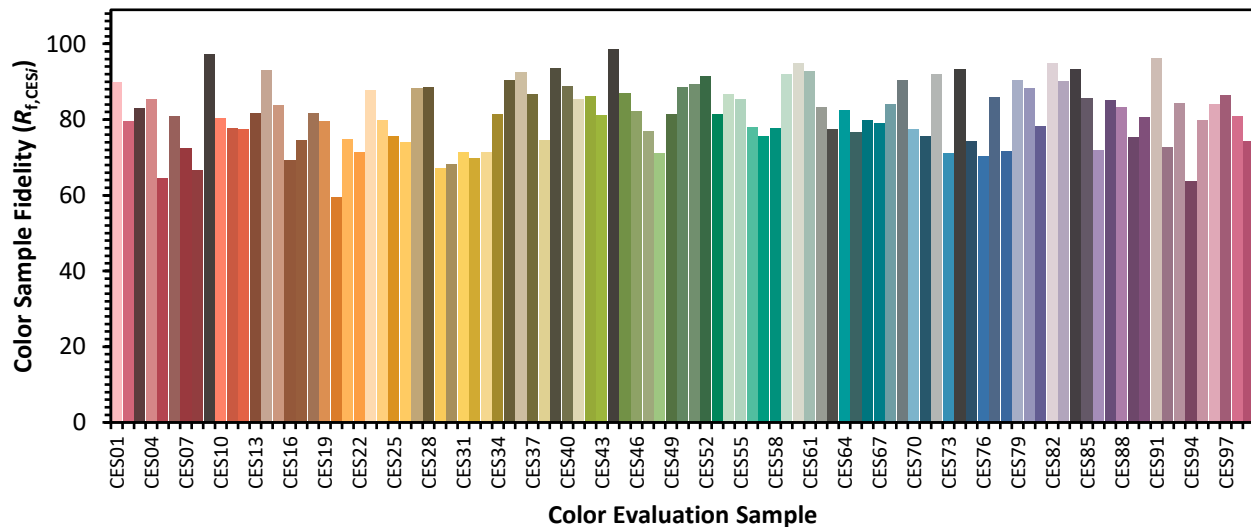


Color Vector Graphics

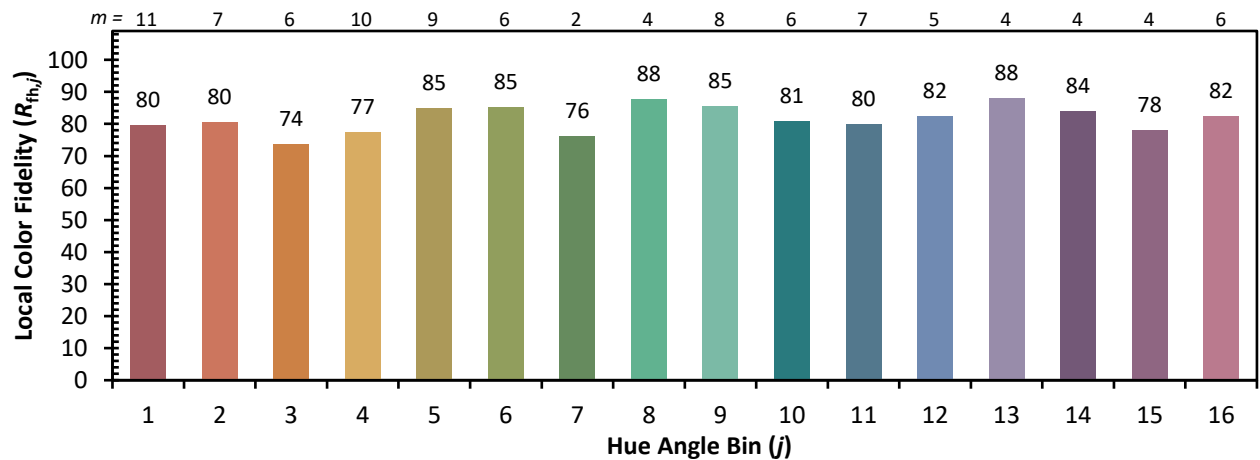
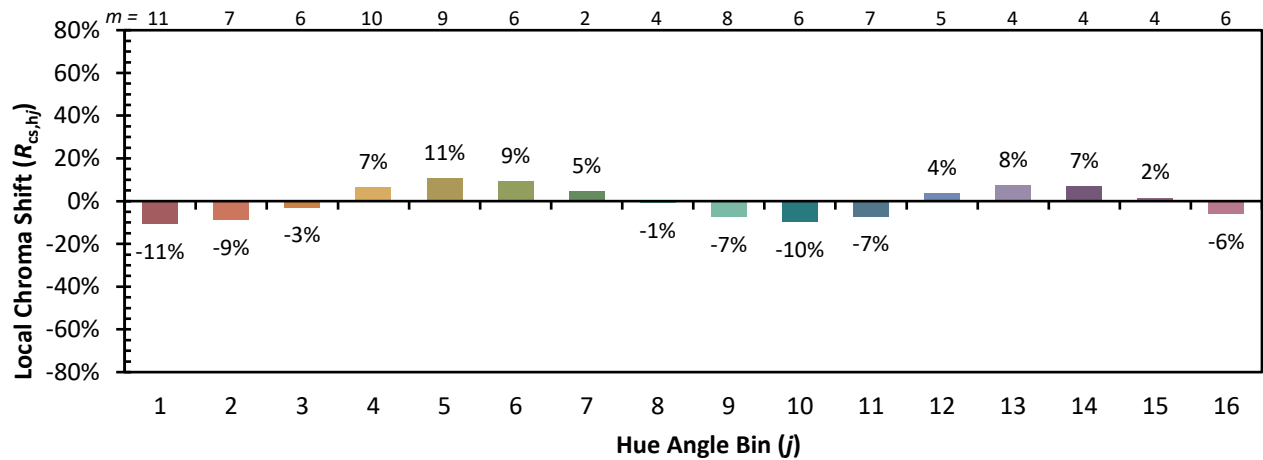


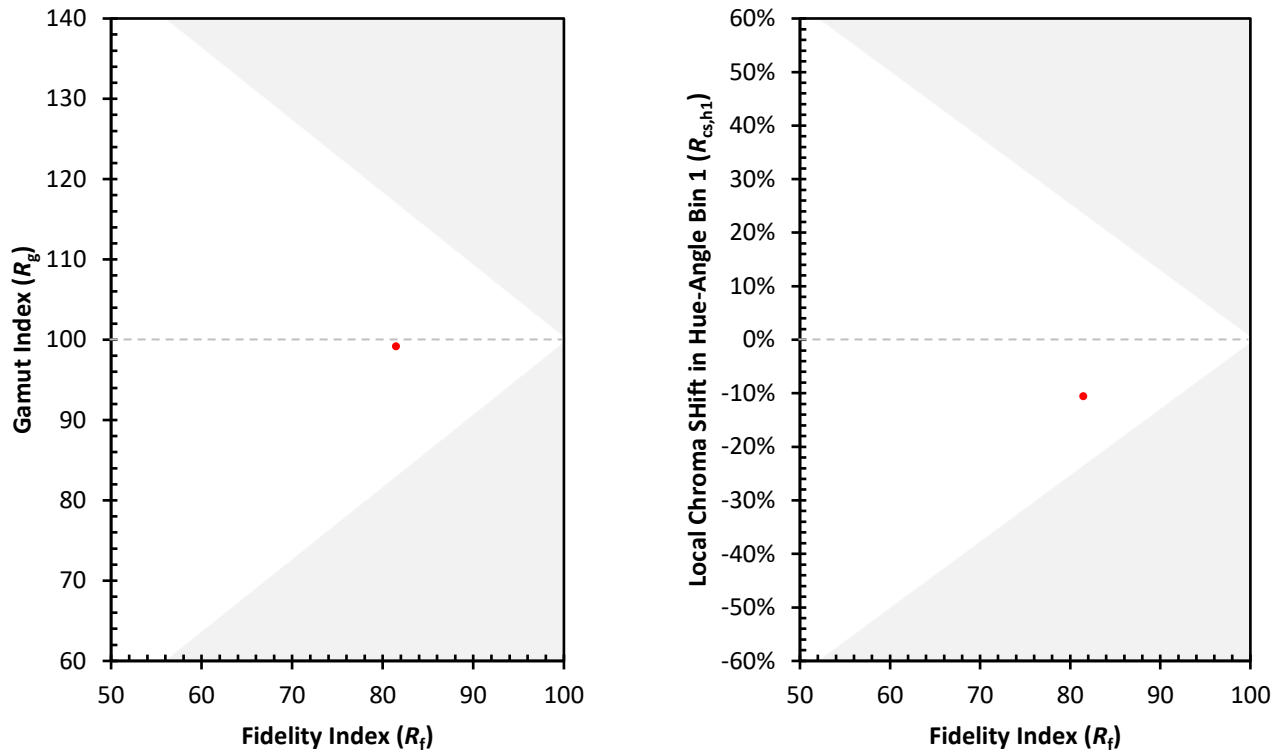
Individual Sample Fidelity Index ($R_{f,i}$)

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)