

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: P1065403

Luminaire Tested: **GLAN-SA5C-830-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065403
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5C-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

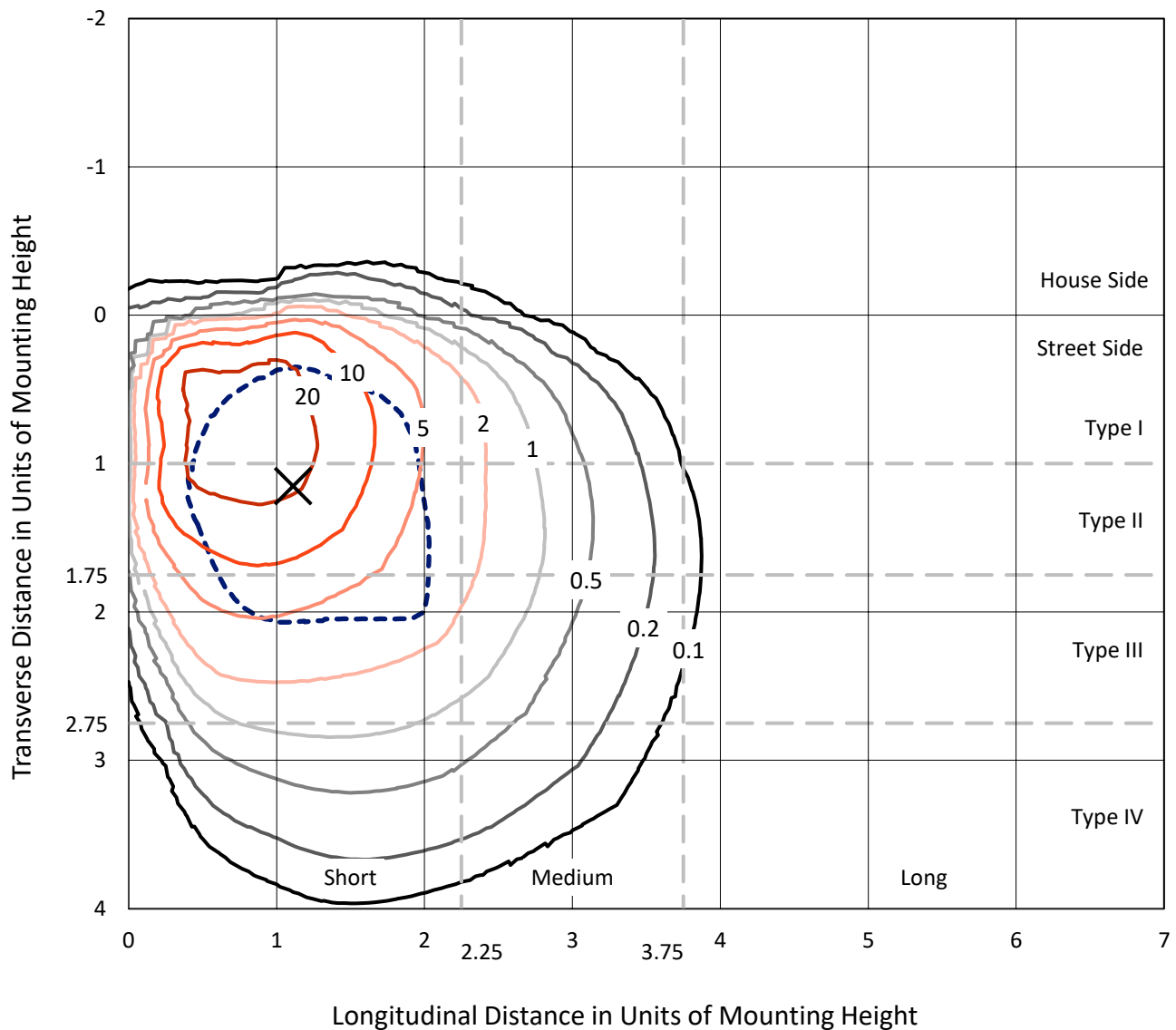
Lumens per Lamp: N/A
Luminaire Lumens: 22692 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 236
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

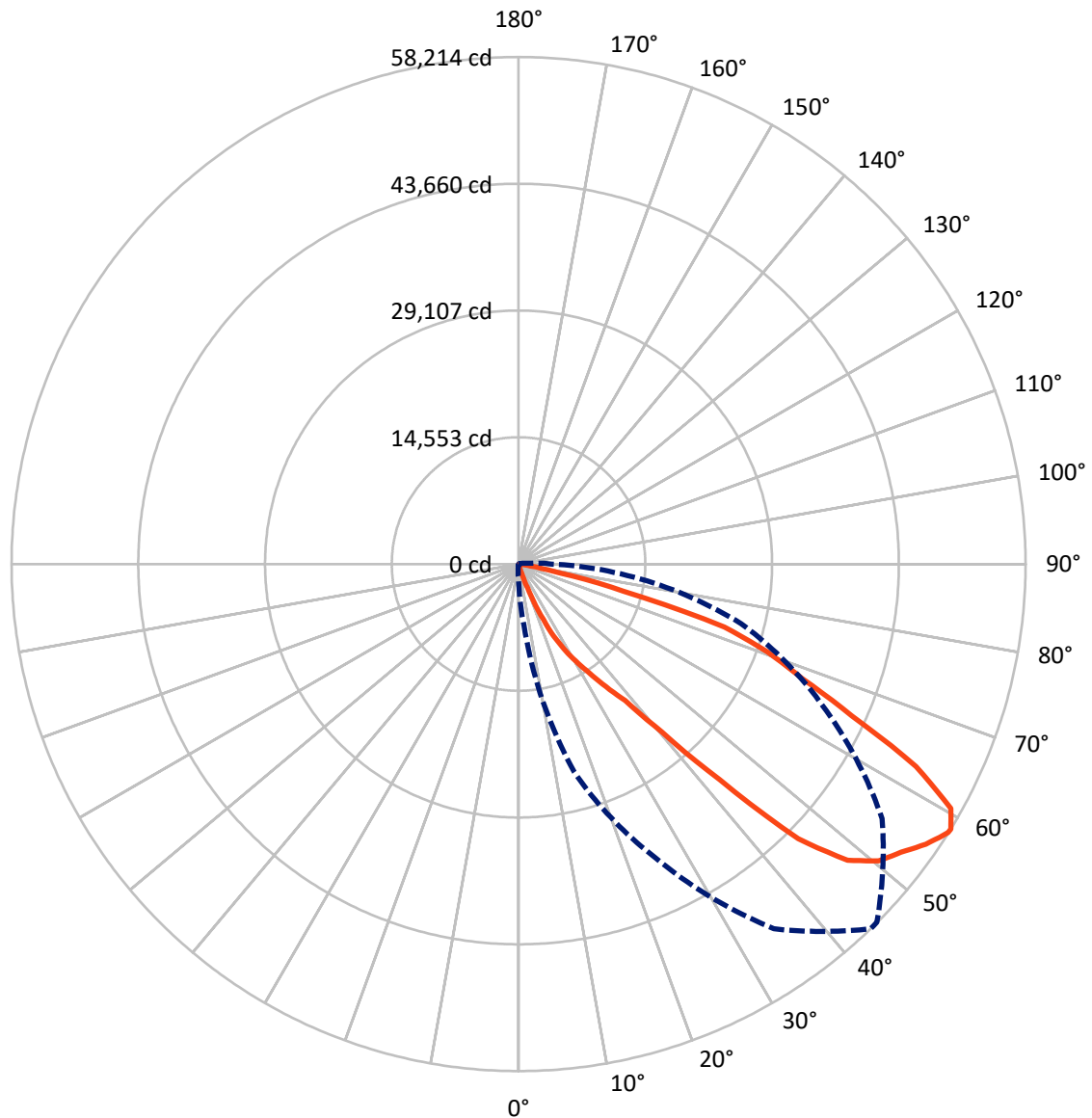
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39.5 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	154.9	0.0	154.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	22537.0	0.0	22537.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	22692.0	0.0	22692.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	0.0
10°-20°	49.8	0.2
20°-30°	537.6	2.4
30°-40°	1589.8	7.0
40°-50°	4738.4	20.9
50°-60°	7518.8	33.1
60°-70°	6271.5	27.6
70°-80°	1934.2	8.5
80°-90°	43.0	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°	22692.0	100.0
0°-180°	22692.0	100.0



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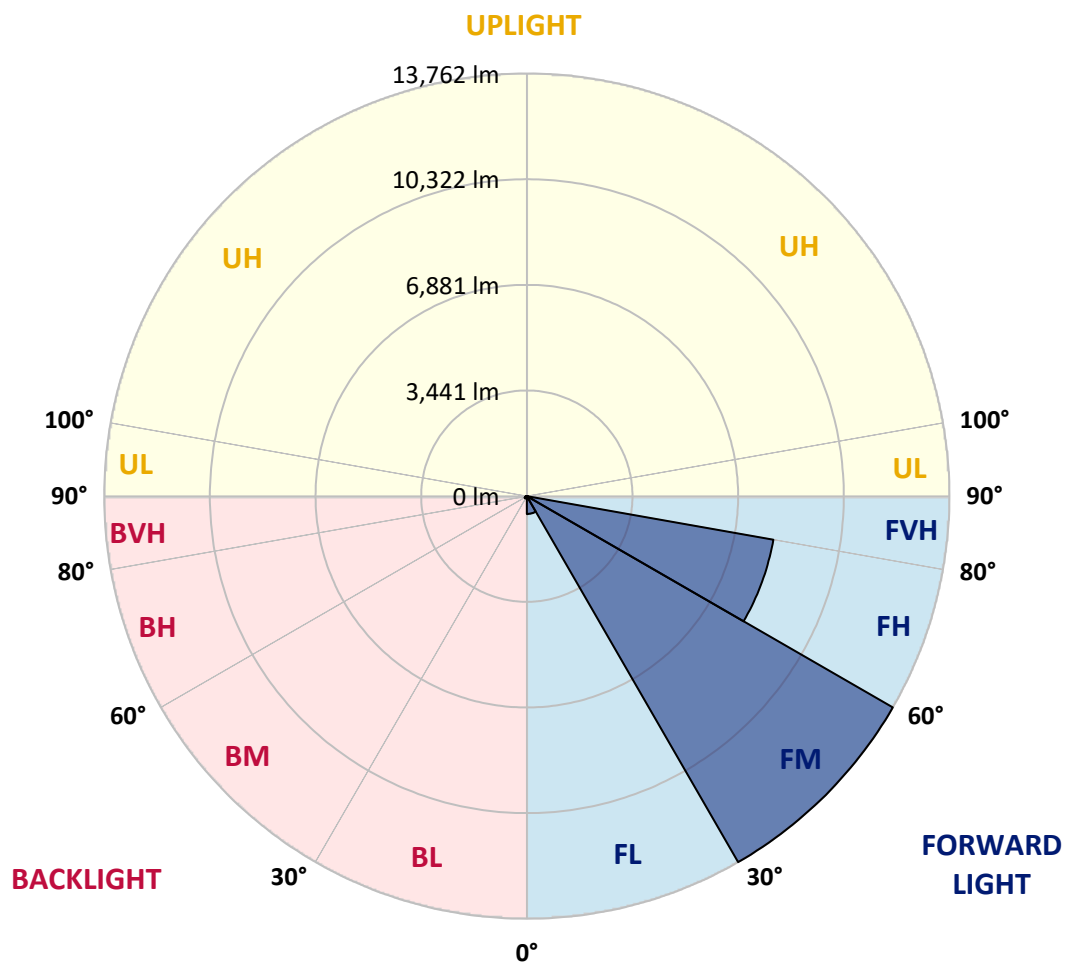
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	581.0	2.6			
FM	(30°-60°)	13762.2	60.6			
FH	(60°-80°)	8152.9	35.9			G4/12000
FVH	(80°-90°)	40.9	0.2			G1/100
BL	(0°-30°)	15.2	0.1	B0/110		
BM	(30°-60°)	84.8	0.4	B0/220		
BH	(60°-80°)	52.9	0.2	B0/110		G0/110
BVH	(80°-90°)	2.1	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°	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2.5°	128.6	128.6	123.4	116.6	109.7	102.9	101.1	97.7	96.0	94.3
5°	133.7	133.7	132.0	126.8	120.0	114.9	114.9	109.7	106.3	102.9
7.5°	137.1	138.8	142.3	140.6	137.1	132.0	132.0	128.6	123.4	114.9
10°	142.3	147.4	154.3	157.7	159.4	159.4	157.7	156.0	147.4	135.4
12.5°	147.4	157.7	174.8	192.0	202.3	216.0	214.3	210.8	188.6	162.8
15°	157.7	173.1	209.1	258.8	336.0	384.0	402.8	385.7	312.0	219.4
17.5°	169.7	195.4	303.4	541.7	887.9	1052.5	1151.9	1071.4	709.7	416.5
20°	181.7	238.3	564.0	1403.9	2303.9	2842.1	2991.3	2758.1	1770.8	793.7
22.5°	202.3	334.3	1143.4	2902.1	4964.3	5771.7	5924.2	5178.5	3344.4	1566.8
25°	245.1	485.1	1971.3	4729.4	7408.7	8771.5	8708.1	7731.0	5425.4	2502.7
27.5°	306.8	706.2	2981.0	6719.6	9750.3	10951.9	11095.9	9887.4	7232.1	3680.4
30°	396.0	978.8	4064.3	8313.8	11627.3	12926.7	12950.7	11701.0	8848.6	4714.0
32.5°	481.7	1235.9	5012.3	9854.8	13476.9	14901.4	15007.7	13470.1	10055.4	5790.5
35°	546.8	1403.9	5972.2	11209.0	15341.9	17304.7	17297.8	15472.2	11485.0	6752.2
37.5°	552.0	1571.9	6841.3	12594.1	17704.1	19901.7	20119.4	18106.9	13212.9	7941.8
40°	540.0	1760.5	7941.8	14754.0	21960.4	25332.2	25524.2	22987.2	16679.0	9978.3
42.5°	553.7	2087.9	9728.0	18742.9	29028.0	33870.6	34240.8	31573.5	23050.6	14133.4
45°	625.7	2703.3	13470.1	25416.2	39102.2	45005.9	44882.5	41041.0	30464.5	20458.8
47.5°	863.9	4210.0	19017.2	31911.2	45540.7	50798.1	50904.4	46209.2	34791.1	25321.9
50°	1328.5	6441.9	23678.0	35344.8	48309.1	53583.7	53484.2	48058.9	36435.0	27716.6
52.5°	1727.9	8056.7	26016.2	36549.8	48664.0	54960.2	54953.3	48545.7	36690.4	27922.3
55°	1827.3	8178.4	26035.0	36615.0	49459.3	56761.8	56988.0	49743.9	37021.2	27024.1
57.5°	1787.9	7240.7	24948.2	36992.1	50875.3	58155.4	58167.4	50904.4	37861.2	26473.9
58°	1753.6	7093.3	24728.8	37206.4	51118.7	58213.7	58184.5	50957.5	38545.1	26453.3
60°	1561.6	6159.1	23873.4	37753.2	50757.0	57017.2	56744.6	49797.0	38444.0	26242.4
62.5°	1227.4	4804.9	23031.8	37120.6	46879.5	51224.9	51338.1	44087.1	35046.5	25013.4
65°	977.1	3580.9	21276.4	32560.9	38603.4	42066.1	42487.8	35850.4	29252.5	21180.5
67.5°	778.2	2588.4	17848.1	25923.6	30546.8	35108.2	35415.0	30099.4	22663.2	16228.2
70°	632.5	1750.2	12319.8	18958.9	25195.1	30323.9	30342.8	25004.8	16915.6	10633.1
72.5°	560.5	1211.9	7151.6	13826.6	20429.6	24710.0	24211.1	20290.8	13000.4	6297.9
75°	485.1	804.0	3507.2	8452.6	12386.7	12470.7	12661.0	9412.6	6498.5	2994.7
77.5°	399.4	570.8	1381.6	2309.0	3714.6	4755.1	4931.7	3736.9	2161.6	737.1
80°	274.3	270.8	372.0	708.0	1062.8	1331.9	1242.8	961.7	565.7	282.8
82.5°	118.3	128.6	168.0	202.3	164.6	159.4	152.6	97.7	75.4	58.3
85°	37.7	34.3	36.0	36.0	29.1	22.3	22.3	10.3	0.0	0.0
87.5°	18.9	15.4	15.4	13.7	8.6	3.4	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°
99.4	0°	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
92.6	2.5°	90.9	90.9	87.4	84.0	82.3	78.9	77.1	75.4	73.7	72.0
99.4	5°	96.0	94.3	89.1	84.0	78.9	73.7	70.3	66.9	63.4	61.7
109.7	7.5°	104.6	101.1	90.9	82.3	75.4	68.6	65.1	60.0	56.6	51.4
121.7	10°	114.9	108.0	94.3	84.0	73.7	65.1	60.0	54.9	49.7	42.9
138.8	12.5°	128.6	116.6	99.4	82.3	70.3	60.0	54.9	48.0	42.9	37.7
161.1	15°	140.6	125.1	101.1	82.3	66.9	54.9	48.0	41.1	36.0	29.1
202.3	17.5°	157.7	132.0	99.4	77.1	61.7	48.0	41.1	36.0	27.4	17.1
300.0	20°	186.8	137.1	96.0	72.0	53.1	39.4	30.9	24.0	12.0	3.4
450.8	22.5°	233.1	150.8	92.6	65.1	46.3	30.9	20.6	8.6	0.0	0.0
685.7	25°	322.3	174.8	92.6	61.7	41.1	22.3	6.9	0.0	0.0	0.0
973.7	27.5°	428.5	207.4	92.6	53.1	32.6	12.0	0.0	0.0	0.0	0.0
1326.8	30°	536.5	243.4	92.6	46.3	25.7	1.7	0.0	0.0	0.0	0.0
1633.6	32.5°	639.4	274.3	94.3	39.4	17.1	0.0	0.0	0.0	0.0	0.0
2058.7	35°	744.0	279.4	92.6	34.3	10.3	0.0	0.0	0.0	0.0	0.0
2579.8	37.5°	877.7	269.1	87.4	30.9	5.1	0.0	0.0	0.0	0.0	0.0
3394.1	40°	1079.9	274.3	82.3	29.1	1.7	0.0	0.0	0.0	0.0	0.0
4846.0	42.5°	1453.6	296.6	75.4	29.1	0.0	0.0	0.0	0.0	0.0	0.0
7719.0	45°	2513.0	397.7	68.6	30.9	0.0	0.0	0.0	0.0	0.0	0.0
11587.9	47.5°	4156.9	714.8	66.9	30.9	0.0	0.0	0.0	0.0	0.0	0.0
13958.6	50°	5305.4	899.9	70.3	32.6	0.0	0.0	0.0	0.0	0.0	0.0
14255.2	52.5°	5296.8	1002.8	73.7	34.3	6.9	0.0	0.0	0.0	0.0	0.0
13139.2	55°	4708.9	1021.7	78.9	37.7	22.3	0.0	0.0	0.0	0.0	0.0
11291.3	57.5°	3935.8	932.5	90.9	46.3	41.1	0.0	0.0	0.0	0.0	0.0
11001.6	58°	3798.6	891.4	94.3	48.0	44.6	0.0	0.0	0.0	0.0	0.0
9542.9	60°	3113.0	726.8	120.0	60.0	60.0	0.0	0.0	0.0	0.0	0.0
7823.5	62.5°	2149.6	634.2	137.1	77.1	61.7	0.0	0.0	0.0	0.0	0.0
5768.2	65°	1520.5	572.5	149.1	82.3	49.7	0.0	0.0	0.0	0.0	0.0
4098.6	67.5°	1136.5	528.0	164.6	84.0	25.7	0.0	0.0	0.0	0.0	0.0
2571.3	70°	870.8	495.4	202.3	89.1	6.9	0.0	0.0	0.0	0.0	0.0
1532.5	72.5°	709.7	457.7	245.1	92.6	0.0	0.0	0.0	0.0	0.0	0.0
918.8	75°	588.0	413.1	236.6	101.1	0.0	0.0	0.0	0.0	0.0	0.0
490.3	77.5°	390.8	320.6	216.0	101.1	0.0	0.0	0.0	0.0	0.0	0.0
174.8	80°	137.1	126.8	168.0	89.1	0.0	0.0	0.0	0.0	0.0	0.0
36.0	82.5°	20.6	17.1	24.0	30.9	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°
99.4	0°	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
70.3	2.5°	70.3	70.3	68.6	70.3	70.3	73.7	82.3	94.3	108.0	113.1
60.0	5°	58.3	56.6	54.9	54.9	54.9	60.0	66.9	80.6	96.0	102.9
49.7	7.5°	48.0	46.3	44.6	42.9	42.9	46.3	54.9	70.3	85.7	92.6
41.1	10°	39.4	36.0	34.3	32.6	32.6	36.0	44.6	60.0	77.1	84.0
34.3	12.5°	32.6	27.4	24.0	22.3	20.6	25.7	34.3	48.0	66.9	75.4
25.7	15°	22.3	17.1	12.0	10.3	8.6	13.7	22.3	37.7	56.6	66.9
13.7	17.5°	12.0	5.1	1.7	0.0	0.0	3.4	10.3	27.4	46.3	54.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	34.3	42.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	20.6	29.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	15.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
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	5.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
99.4	0°	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
118.3	2.5°	121.7	120.0	116.6	113.1	113.1	113.1	118.3	123.4	128.6	128.6
106.3	5°	113.1	113.1	111.4	108.0	108.0	109.7	116.6	125.1	132.0	133.7
97.7	7.5°	104.6	108.0	104.6	102.9	104.6	106.3	113.1	123.4	133.7	137.1
90.9	10°	99.4	101.1	101.1	99.4	99.4	102.9	109.7	123.4	137.1	142.3
82.3	12.5°	92.6	96.0	94.3	94.3	94.3	97.7	106.3	121.7	140.6	147.4
73.7	15°	85.7	90.9	90.9	89.1	89.1	90.9	102.9	120.0	145.7	157.7
63.4	17.5°	78.9	84.0	85.7	82.3	82.3	85.7	97.7	120.0	149.1	169.7
51.4	20°	65.1	73.7	78.9	73.7	73.7	77.1	89.1	113.1	150.8	181.7
37.7	22.5°	51.4	60.0	66.9	65.1	65.1	66.9	82.3	108.0	152.6	202.3
22.3	25°	37.7	46.3	51.4	54.9	54.9	60.0	75.4	104.6	159.4	245.1
10.3	27.5°	22.3	32.6	39.4	42.9	44.6	51.4	70.3	101.1	171.4	306.8
0.0	30°	10.3	18.9	27.4	34.3	34.3	46.3	65.1	97.7	186.8	396.0
0.0	32.5°	0.0	8.6	13.7	24.0	25.7	37.7	60.0	94.3	209.1	481.7
0.0	35°	0.0	0.0	6.9	18.9	18.9	30.9	54.9	90.9	243.4	546.8
0.0	37.5°	0.0	0.0	0.0	13.7	15.4	27.4	53.1	89.1	250.3	552.0
0.0	40°	0.0	0.0	0.0	10.3	12.0	25.7	53.1	90.9	226.3	540.0
0.0	42.5°	0.0	0.0	0.0	6.9	8.6	25.7	53.1	94.3	204.0	553.7
0.0	45°	0.0	0.0	0.0	5.1	6.9	27.4	51.4	92.6	192.0	625.7
0.0	47.5°	0.0	0.0	0.0	6.9	10.3	27.4	49.7	90.9	193.7	863.9
0.0	50°	0.0	0.0	0.0	8.6	12.0	27.4	51.4	87.4	212.6	1328.5
0.0	52.5°	0.0	0.0	0.0	6.9	10.3	30.9	56.6	85.7	231.4	1727.9
0.0	55°	0.0	0.0	0.0	1.7	5.1	39.4	61.7	85.7	260.6	1827.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	44.6	70.3	90.9	308.6	1787.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	44.6	72.0	90.9	312.0	1753.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	44.6	78.9	101.1	336.0	1561.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	37.7	94.3	126.8	349.7	1227.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	30.9	111.4	138.8	360.0	977.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	29.1	114.9	140.6	365.1	778.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	30.9	113.1	150.8	382.3	632.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	34.3	102.9	166.3	382.3	560.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	36.0	96.0	186.8	348.0	485.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	34.3	94.3	217.7	310.3	399.4
0.0	80°	3.4	5.1	5.1	3.4	3.4	29.1	92.6	221.1	264.0	274.3
1.7	82.5°	10.3	13.7	12.0	8.6	8.6	25.7	82.3	185.1	137.1	118.3
10.3	85°	18.9	22.3	22.3	18.9	18.9	24.0	51.4	66.9	46.3	37.7
18.9	87.5°	25.7	29.1	29.1	25.7	25.7	24.0	22.3	20.6	18.9	18.9
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

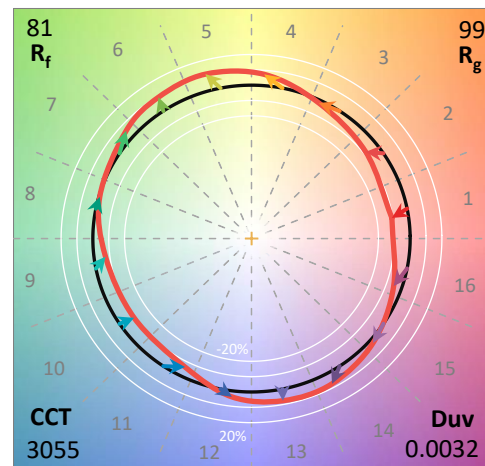
Test Information

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

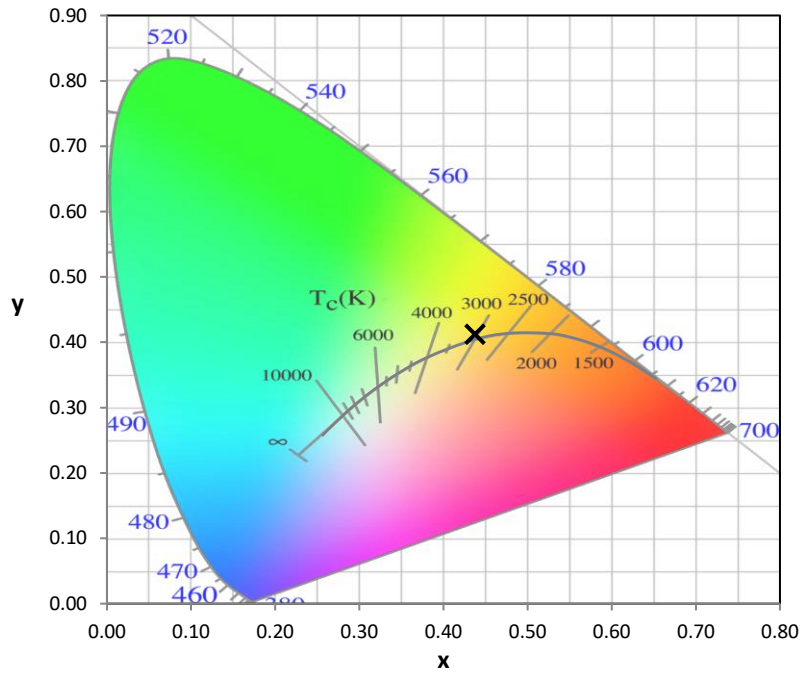
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

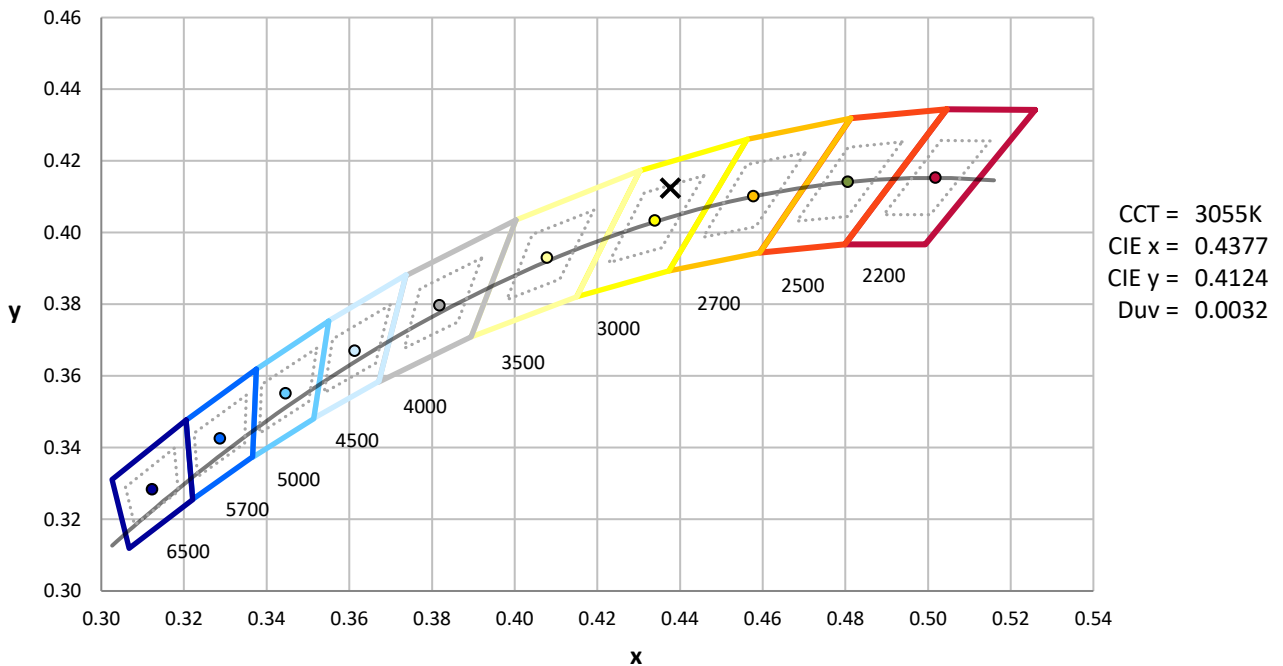
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

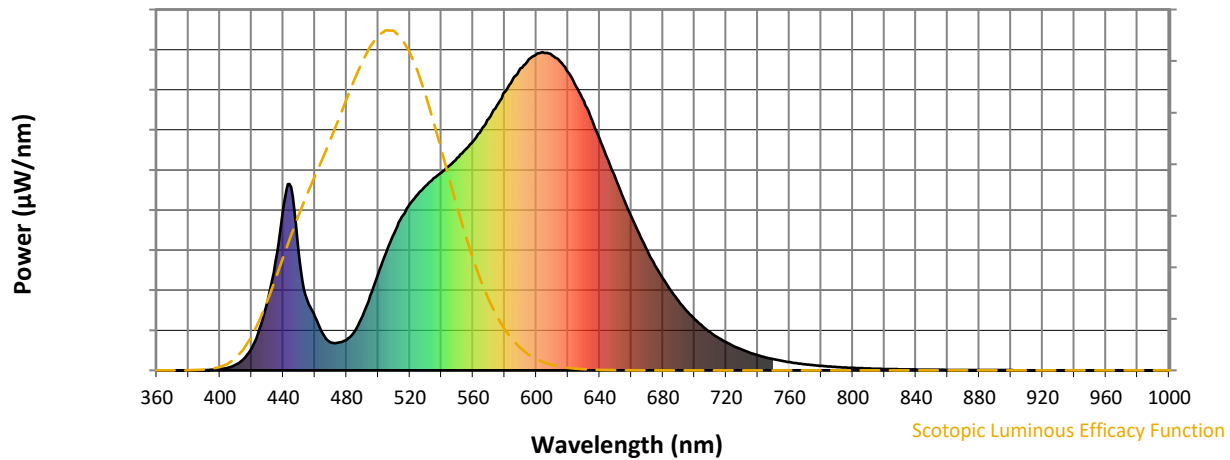


Photopic Lumens: NR

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



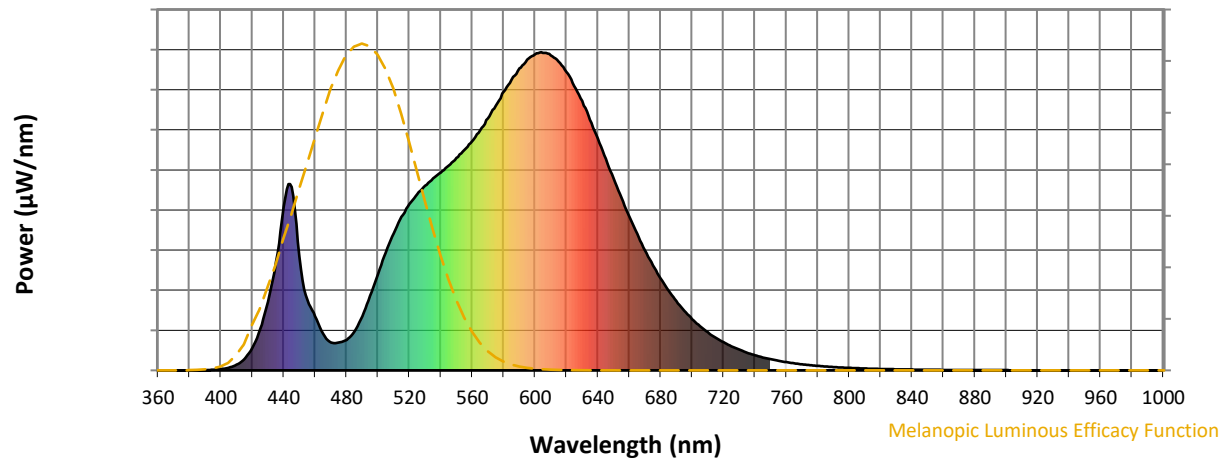
Scotopic Lumens: NR

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

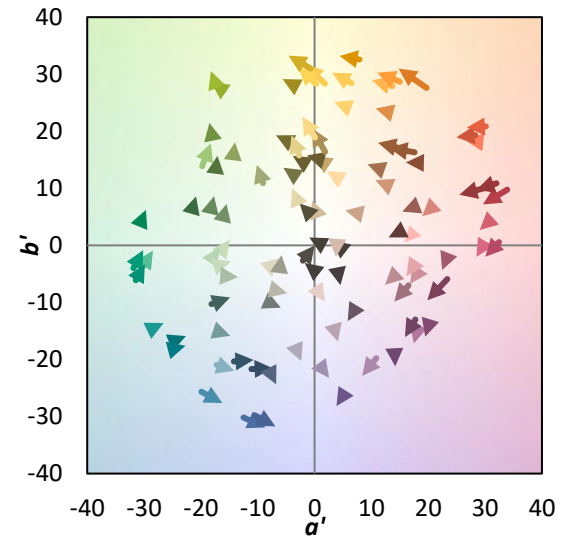
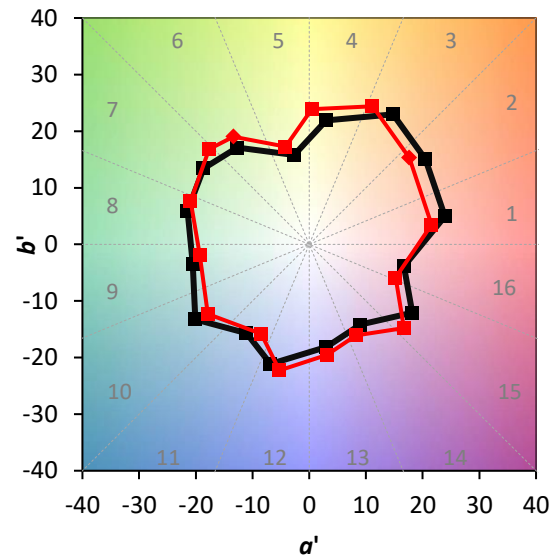
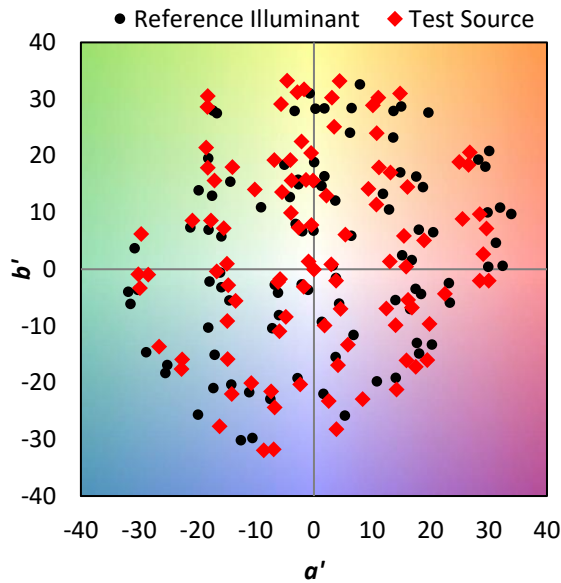
TM-30-18

Summary

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

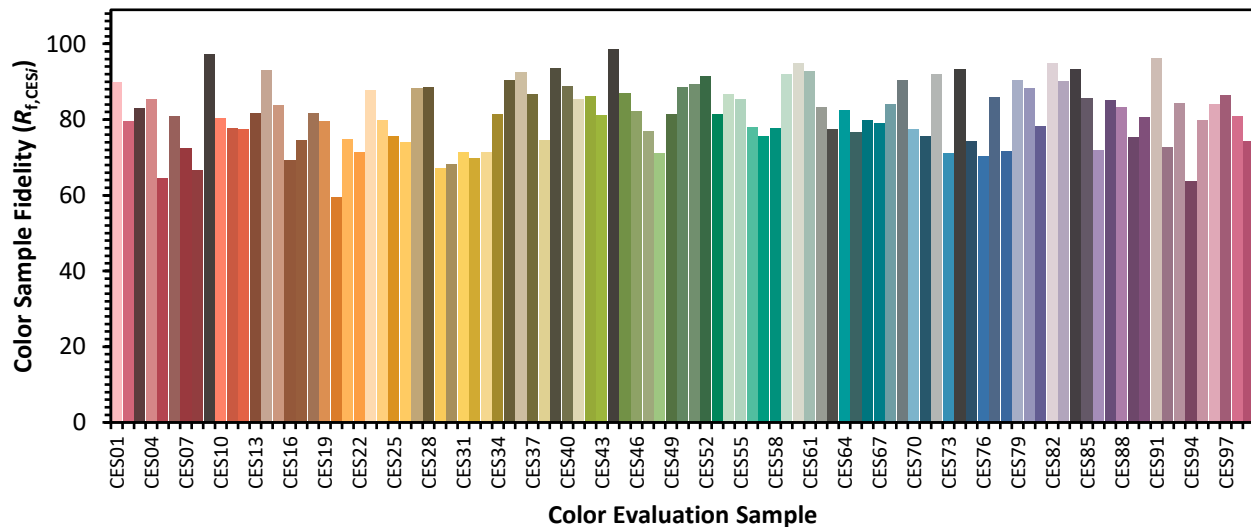


Color Vector Graphics

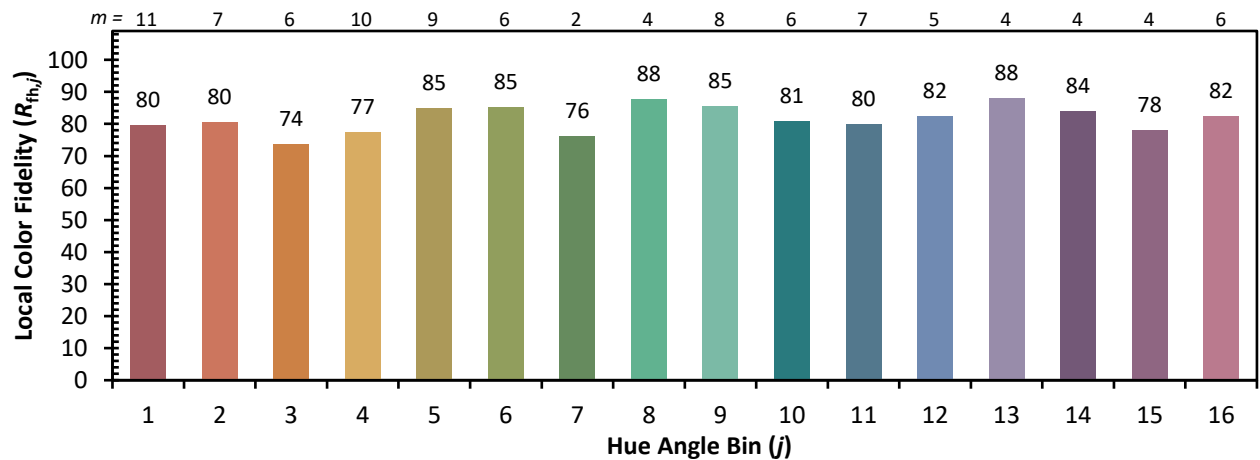
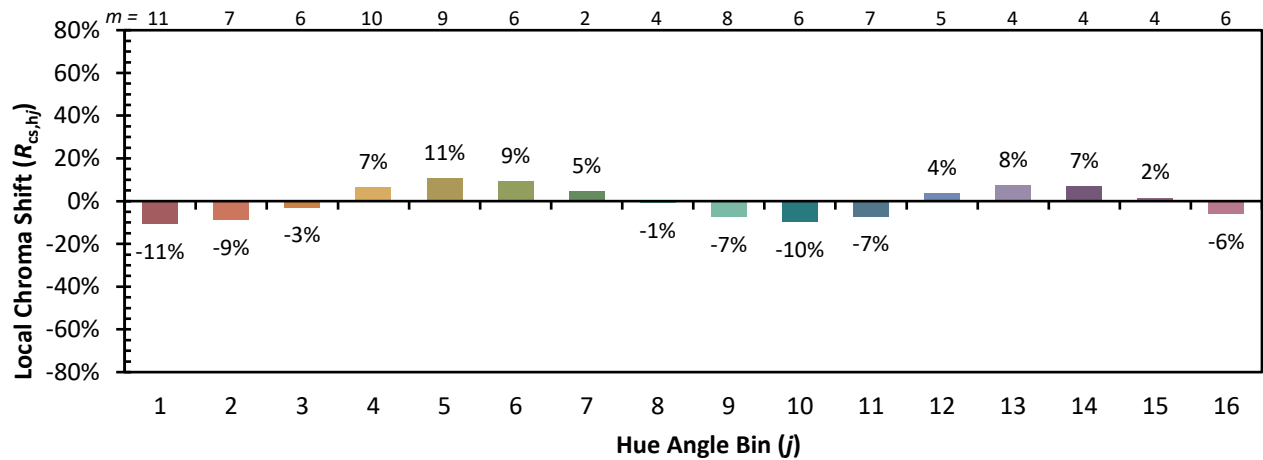


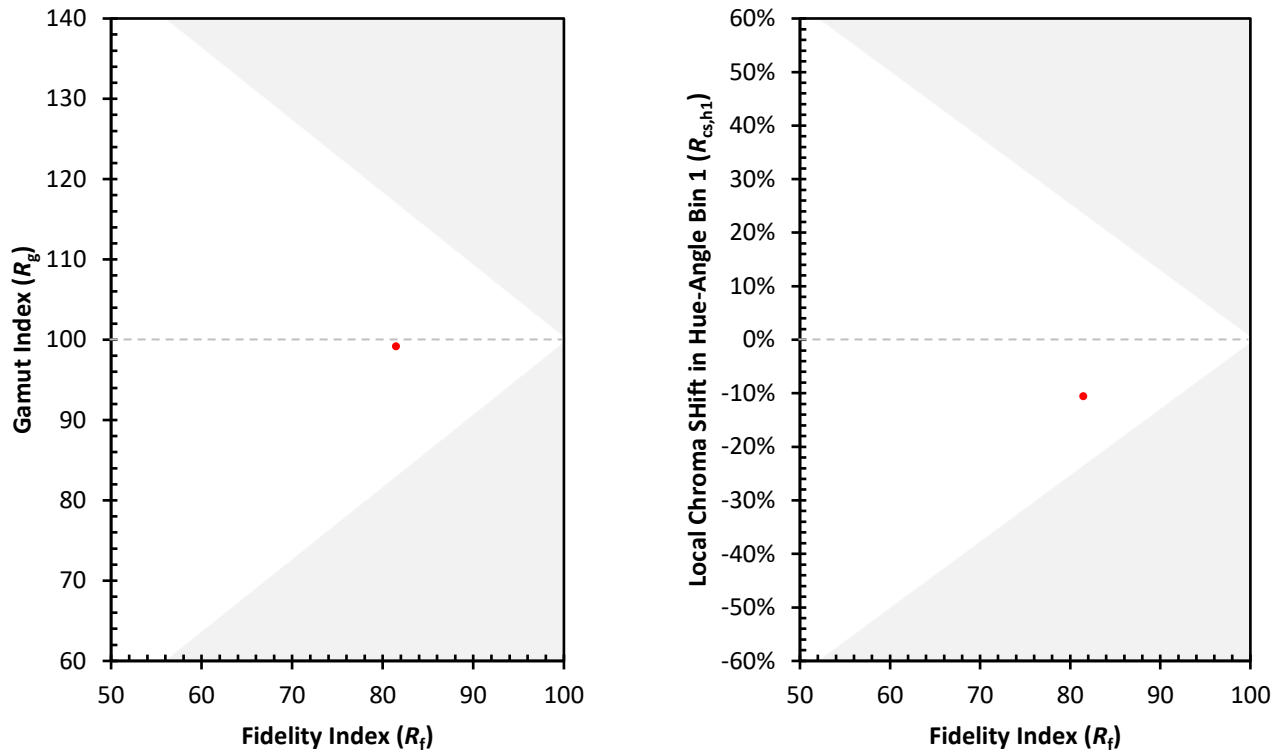
Individual Sample Fidelity Index ($R_{f,i}$)

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)