

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: P1057711

Luminaire Tested: **GAP-SA1B-830-U-RBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1057711
Test Lab: INNOVATION CENTER(G1)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-SA1B-830-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 800mA 1xLight Square PACKAGE 80CRI
3000K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (14) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3222.9 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 38.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

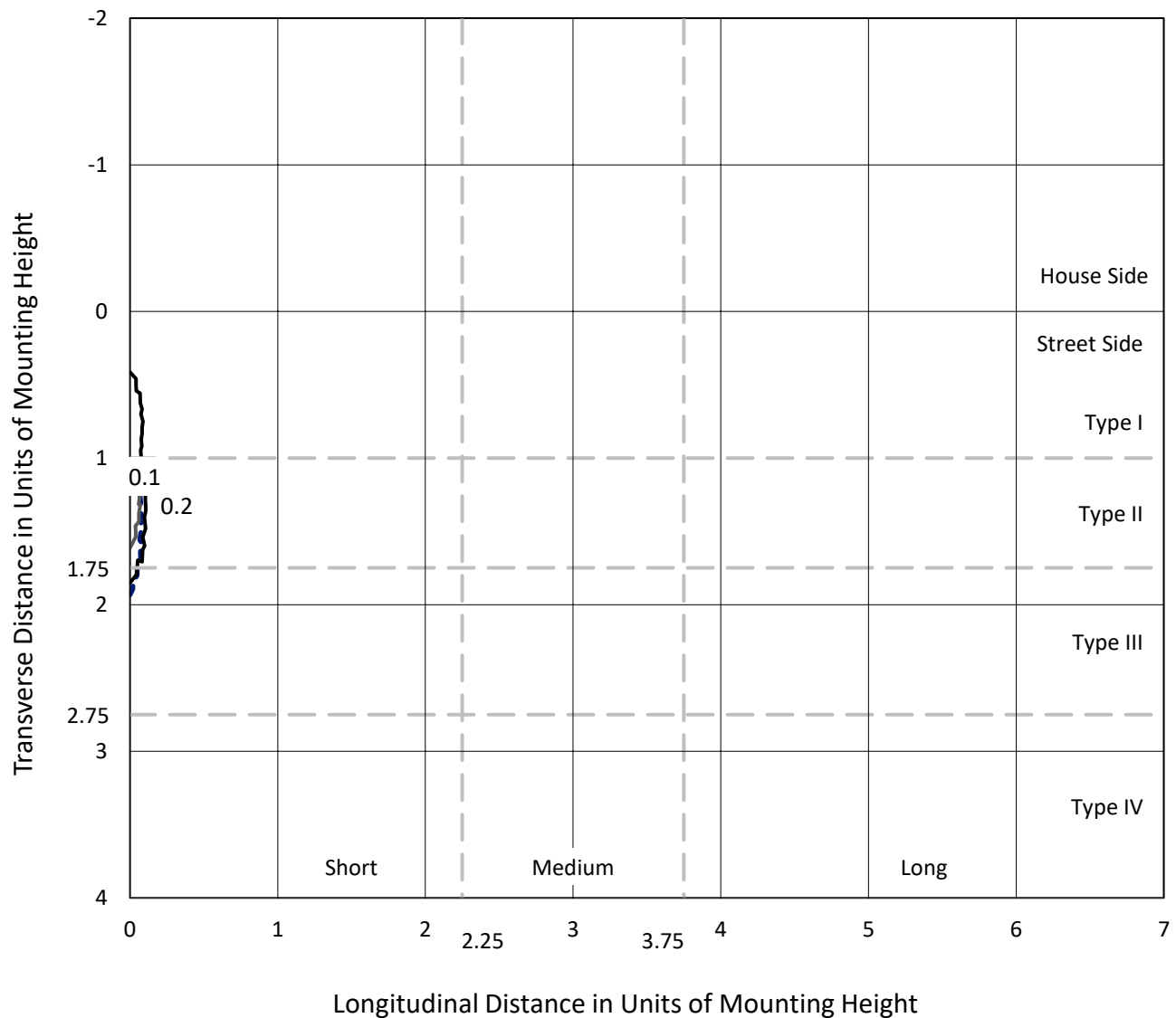


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

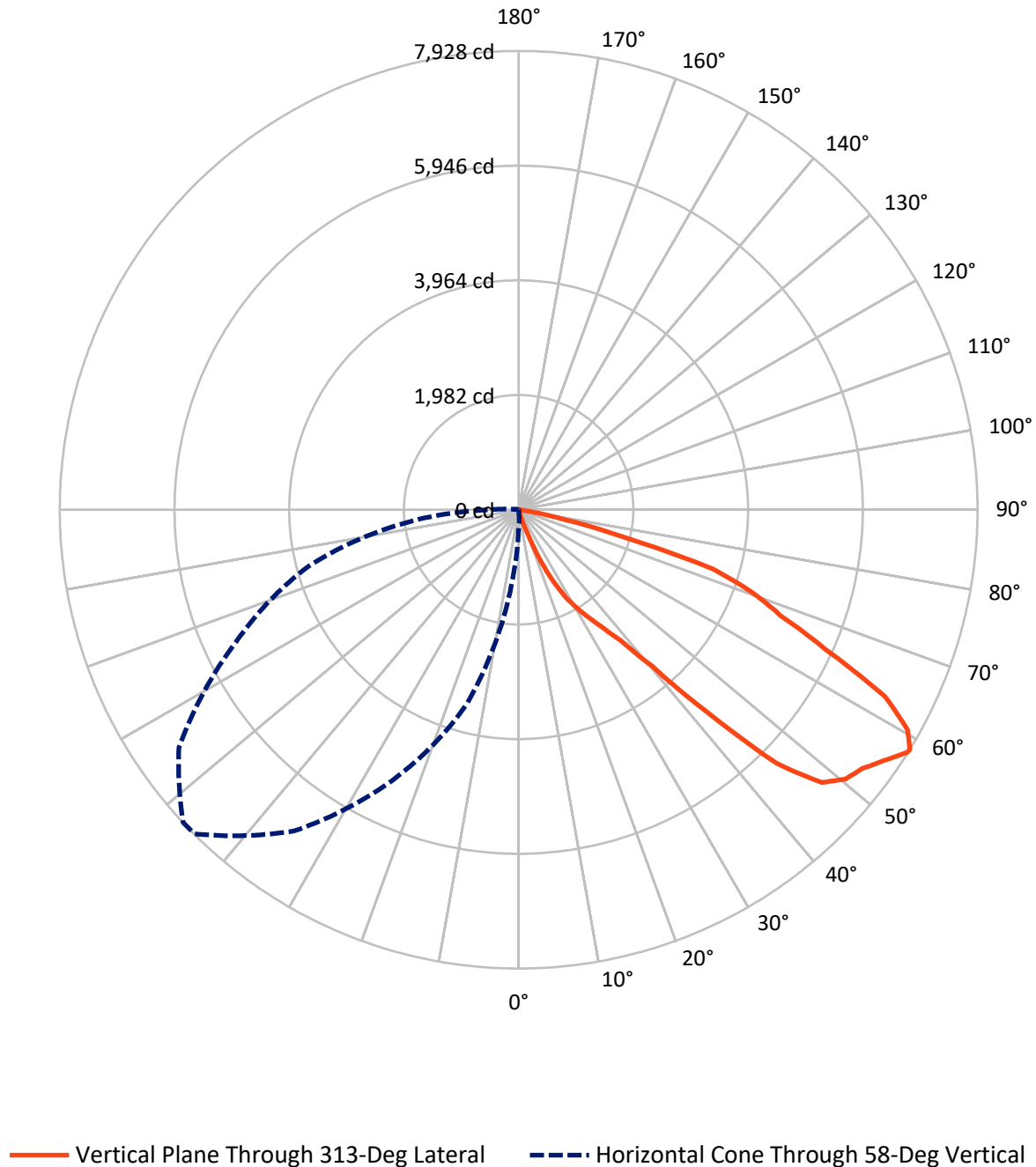


Based on 15 foot mounting height. Maximum calculated value = 0.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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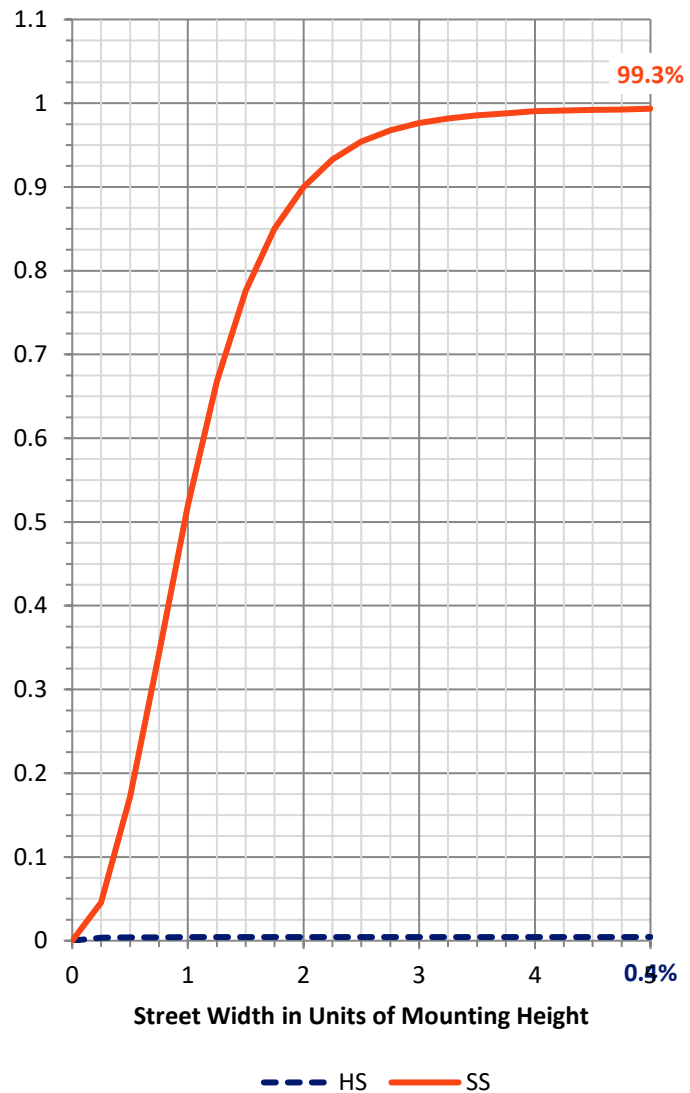
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14.4	0.0	14.4
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	3208.5	0.0	3208.5
	% Fixture	99.6	0.0	99.6
Total	Lumens	3222.9	0.0	3222.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.0
10°-20°	5.6	0.2
20°-30°	81.4	2.5
30°-40°	234.0	7.3
40°-50°	666.5	20.7
50°-60°	1048.4	32.5
60°-70°	894.1	27.7
70°-80°	285.2	8.8
80°-90°	7.3	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°	3222.9	100.0
0°-180°	3222.9	100.0



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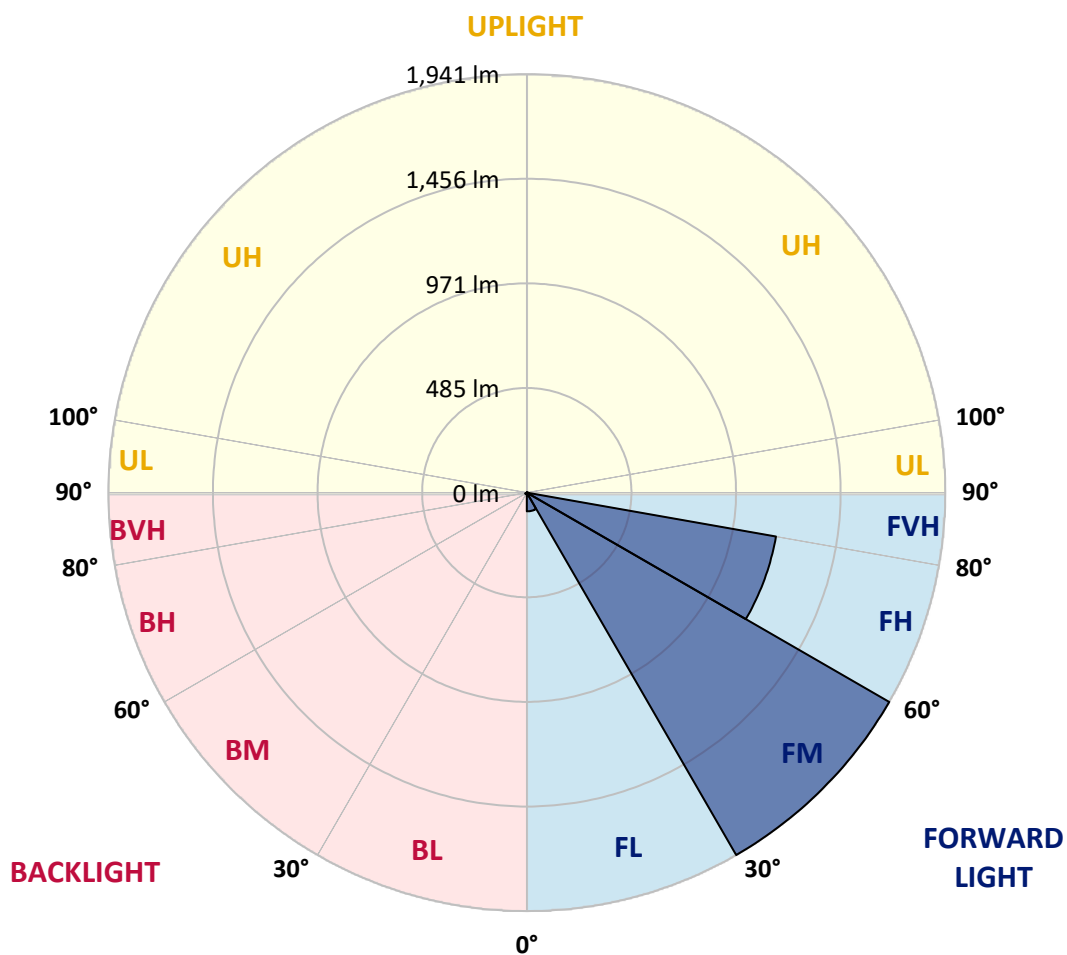
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	86.9	2.7			
FM	(30°-60°)	1941.2	60.2			
FH	(60°-80°)	1173.5	36.4			G1/1800
FVH	(80°-90°)	6.9	0.2			G0/10
BL	(0°-30°)	0.6	0.0	B0/110		
BM	(30°-60°)	7.7	0.2	B0/220		
BH	(60°-80°)	5.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	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°	45°	47°	55°	65°	75°	85°
0°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
2.5°	11.6	12.3	12.9	12.3	11.0	8.4	8.4	6.5	4.5	2.6	1.9
5°	12.9	12.9	12.9	12.3	11.0	8.4	7.7	5.8	3.9	2.6	1.3
7.5°	14.2	14.2	13.5	12.3	10.3	8.4	7.7	5.8	3.9	1.9	0.0
10°	15.5	15.5	14.2	12.9	10.3	7.7	7.1	5.2	3.2	1.3	0.0
12.5°	17.4	16.8	14.8	12.9	10.3	7.1	7.1	5.2	2.6	0.6	0.0
15°	20.0	18.1	15.5	12.9	9.7	7.1	6.5	4.5	1.9	0.0	0.0
17.5°	21.9	20.0	16.1	12.3	9.0	6.5	5.8	3.9	1.9	0.0	0.0
20°	23.9	20.6	16.1	12.3	9.0	5.8	5.2	3.2	0.6	0.0	0.0
22.5°	27.1	21.9	16.1	12.3	8.4	5.2	4.5	2.6	0.0	0.0	0.0
25°	33.5	23.2	16.1	11.6	7.7	4.5	3.9	1.3	0.0	0.0	0.0
27.5°	41.3	25.2	16.1	11.0	7.1	3.9	3.2	0.6	0.0	0.0	0.0
30°	49.7	27.1	16.1	11.0	6.5	3.2	2.6	0.0	0.0	0.0	0.0
32.5°	58.7	29.7	16.1	10.3	5.8	2.6	1.9	0.0	0.0	0.0	0.0
35°	75.5	33.5	16.1	10.3	5.2	1.9	1.3	0.0	0.0	0.0	0.0
37.5°	83.2	38.7	16.1	9.7	5.2	1.3	0.6	0.0	0.0	0.0	0.0
40°	86.4	37.4	15.5	9.7	4.5	0.6	0.0	0.0	0.0	0.0	0.0
42.5°	93.5	34.8	16.1	9.0	4.5	0.6	0.0	0.0	0.0	0.0	0.0
45°	114.2	34.8	17.4	9.0	3.9	1.3	0.0	0.0	0.0	0.0	0.0
47.5°	198.0	36.1	16.8	9.0	3.9	1.3	0.0	0.0	0.0	0.0	0.0
50°	325.7	42.6	16.1	9.7	4.5	0.6	0.0	0.0	0.0	0.0	0.0
52.5°	378.0	51.6	16.1	10.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0
55°	362.5	63.2	16.1	11.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	329.6	60.0	17.4	12.9	9.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	317.3	60.0	17.4	12.9	9.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	249.0	61.3	20.0	14.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	185.1	62.6	22.6	16.1	9.7	0.6	0.0	0.0	0.0	0.0	0.0
65°	137.4	65.1	23.9	18.7	9.0	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	109.7	67.1	25.8	20.6	10.3	2.6	0.6	0.0	0.0	0.0	0.0
70°	94.2	64.5	27.7	21.3	9.7	3.9	1.9	0.0	0.0	0.0	0.0
72.5°	83.9	60.6	31.6	20.6	10.3	3.9	1.9	0.0	0.0	0.0	0.0
75°	75.5	55.5	36.1	20.0	10.3	3.9	2.6	0.0	0.0	0.0	0.0
77.5°	56.8	48.4	35.5	19.4	9.7	3.9	2.6	0.0	0.0	0.0	0.0
80°	28.4	32.3	31.0	17.4	7.7	3.2	2.6	0.6	0.0	0.0	0.0
82.5°	11.6	12.3	15.5	12.9	6.5	2.6	2.6	0.6	0.0	0.0	0.0
85°	1.3	2.6	4.5	5.2	4.5	2.6	2.6	0.6	0.0	0.0	0.0
87.5°	0.0	0.6	2.6	3.9	3.2	1.9	1.3	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
2.5°	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	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	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
2.5°	0.6	1.3	1.3	1.3	1.9	1.9	2.6	3.2	3.2	3.2	3.9
5°	0.0	0.0	0.6	0.6	1.3	1.9	2.6	3.9	4.5	4.5	5.2
7.5°	0.0	0.0	0.0	0.6	1.3	1.9	2.6	3.9	5.2	5.8	6.5
10°	0.0	0.0	0.0	0.0	0.6	1.3	2.6	4.5	6.5	7.7	9.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.6	2.6	5.2	7.7	9.7	11.0
15°	0.0	0.0	0.0	0.0	0.0	0.6	2.6	5.2	9.7	11.6	14.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.8	11.0	14.2	19.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.8	12.3	17.4	29.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.8	13.5	22.6	53.5
25°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.8	15.5	33.5	89.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.5	18.7	47.1	130.3
30°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.5	23.2	63.9	181.9
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	6.5	27.1	80.6	247.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	32.3	107.1	310.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	40.0	118.0	364.4
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	38.1	128.4	425.7
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	34.8	143.2	521.8
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	34.8	189.6	734.7
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	42.6	295.4	1123.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	54.8	453.4	1599.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	66.4	557.9	1875.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	80.0	558.6	1866.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	89.0	499.9	1684.1
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	88.4	483.8	1633.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	6.5	77.4	419.9	1426.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	10.3	67.7	301.2	1182.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	11.6	61.9	218.7	887.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.5	13.5	59.3	154.8	617.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	7.7	15.5	54.8	110.9	406.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.7	19.4	51.6	87.1	245.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	7.7	24.5	45.2	71.0	131.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.7	26.4	37.4	51.6	80.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	7.1	23.9	27.1	22.6	27.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	14.2	5.8	5.8	9.0
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	0.0

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	313°	315°	325°	335°	345°	355°	360°
0°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
2.5°	4.5	4.5	4.5	4.5	5.2	5.2	7.1	9.0	11.0	11.6
5°	5.8	6.5	7.1	7.1	7.1	7.7	9.0	10.3	12.3	12.9
7.5°	8.4	9.0	10.3	10.3	10.3	11.0	11.6	12.9	14.2	14.2
10°	11.0	12.9	13.5	14.2	14.8	14.8	14.8	15.5	16.1	15.5
12.5°	14.8	17.4	20.6	21.3	21.3	21.3	20.6	19.4	18.1	17.4
15°	20.6	28.4	38.7	42.6	40.6	36.1	31.6	24.5	21.3	20.0
17.5°	38.1	77.4	140.6	155.4	152.2	130.9	76.8	37.4	25.2	21.9
20°	102.6	250.3	412.8	452.1	472.8	391.5	226.4	87.1	31.0	23.9
22.5°	221.2	519.9	805.6	907.5	914.0	735.3	440.5	176.7	44.5	27.1
25°	356.0	831.4	1221.0	1319.7	1321.6	1133.3	704.3	286.4	67.7	33.5
27.5°	545.7	1165.5	1601.5	1683.5	1682.2	1491.3	1017.8	437.3	94.8	41.3
30°	739.8	1426.1	1852.5	1954.4	1964.0	1735.7	1279.7	616.0	123.8	49.7
32.5°	932.0	1619.0	2081.4	2216.9	2208.5	1951.8	1462.2	762.4	173.5	58.7
35°	1083.6	1783.4	2334.9	2501.3	2507.8	2189.1	1624.1	904.3	216.1	75.5
37.5°	1213.3	1995.6	2672.3	2864.5	2872.9	2484.6	1793.8	1043.6	252.8	83.2
40°	1373.2	2343.9	3230.8	3557.2	3558.5	3035.4	2098.8	1199.7	302.5	86.4
42.5°	1732.5	3090.2	4322.2	4791.1	4831.7	4178.3	2792.2	1538.3	380.6	93.5
45°	2451.0	4073.9	5714.1	6254.0	6305.6	5600.6	3981.0	2320.1	552.1	114.2
47.5°	3305.6	4929.1	6522.9	7042.8	7077.0	6273.3	4776.9	3224.4	939.8	198.0
50°	3831.3	5245.8	6820.3	7316.3	7322.1	6494.6	5026.5	3693.9	1339.0	325.7
52.5°	3994.5	5286.5	6831.9	7431.7	7448.5	6468.8	5060.7	3788.8	1505.4	378.0
55°	3928.1	5262.6	6954.4	7652.3	7670.4	6573.9	5037.5	3684.9	1427.4	362.5
57.5°	3776.5	5355.5	7155.7	7914.2	7914.2	6768.0	5123.3	3510.8	1236.5	329.6
58°	3753.9	5378.7	7166.6	7928.4	7922.6	6780.3	5158.7	3485.6	1194.5	317.3
60°	3723.0	5450.3	7085.4	7718.8	7702.0	6693.9	5223.2	3463.0	991.4	249.0
62.5°	3677.8	5289.0	6493.3	7102.1	7058.9	6088.2	5038.1	3330.8	739.8	185.1
65°	3446.3	4693.7	5412.9	5834.7	5821.2	5008.5	4336.4	2983.8	532.8	137.4
67.5°	2905.1	3674.6	4372.5	4880.8	4884.0	4088.7	3391.4	2384.6	362.5	109.7
70°	2043.4	2710.3	3717.2	4282.8	4308.6	3429.5	2512.3	1589.3	239.3	94.2
72.5°	1220.3	2047.2	3090.9	3520.4	3506.9	2845.8	1864.1	947.5	145.8	83.9
75°	591.5	1223.6	1562.2	1811.8	1801.5	1423.5	993.3	464.4	106.4	75.5
77.5°	160.6	376.0	605.0	786.9	808.2	570.2	325.7	124.5	66.4	56.8
80°	54.2	116.1	197.4	268.3	275.4	246.4	122.6	43.9	29.0	28.4
82.5°	20.6	28.4	36.1	32.3	32.3	33.5	26.4	18.7	13.5	11.6
85°	0.0	0.0	0.6	1.3	1.3	1.9	1.9	1.9	1.3	1.3
87.5°	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

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

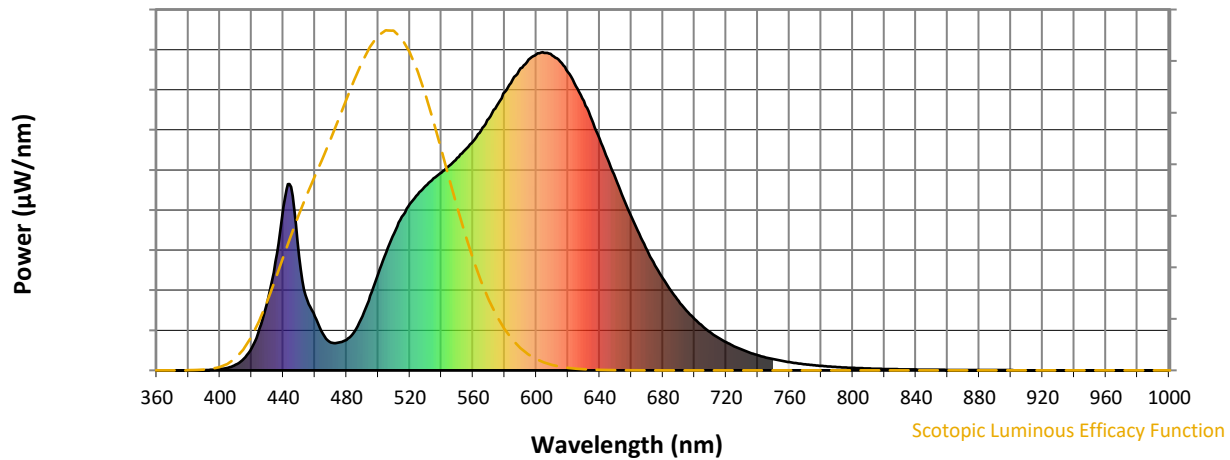


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



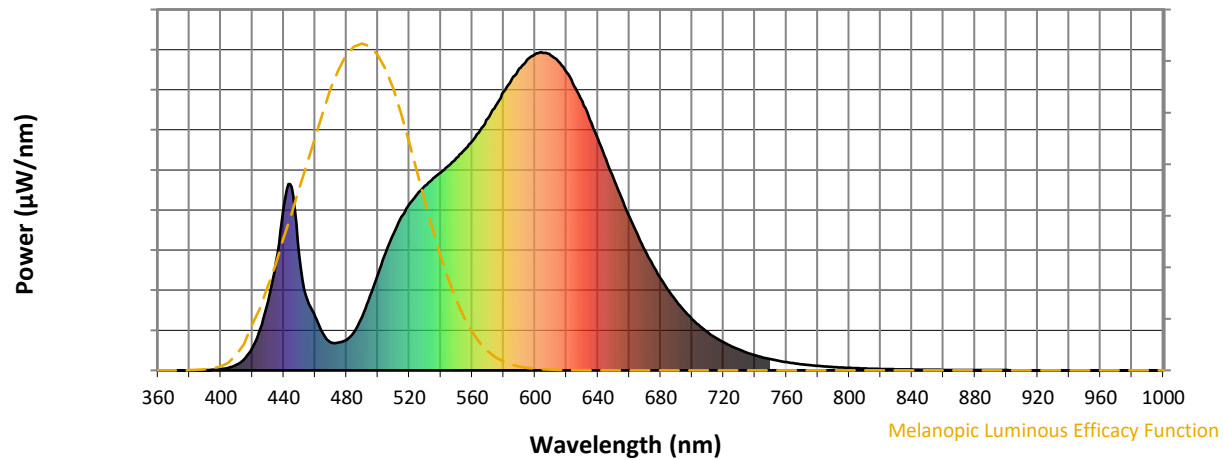
Scotopic Lumens: NR

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

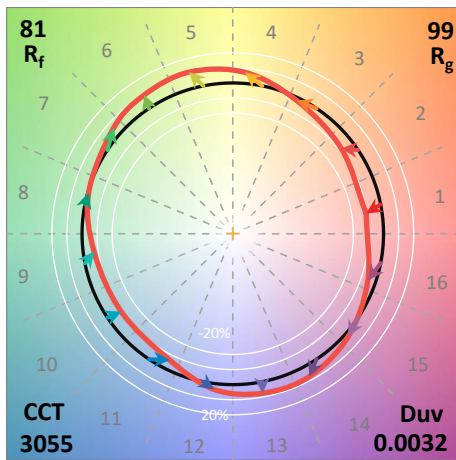
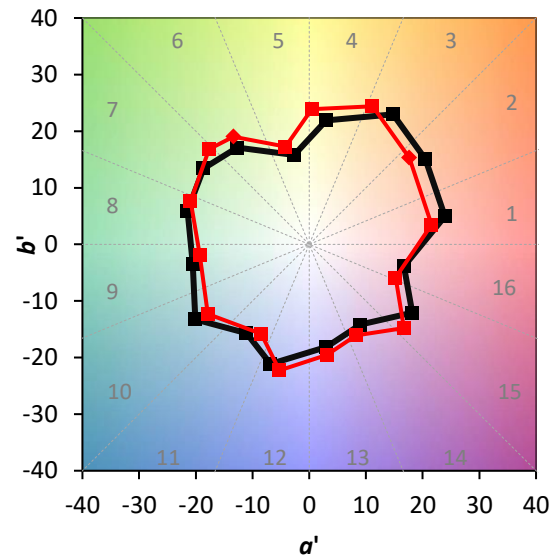
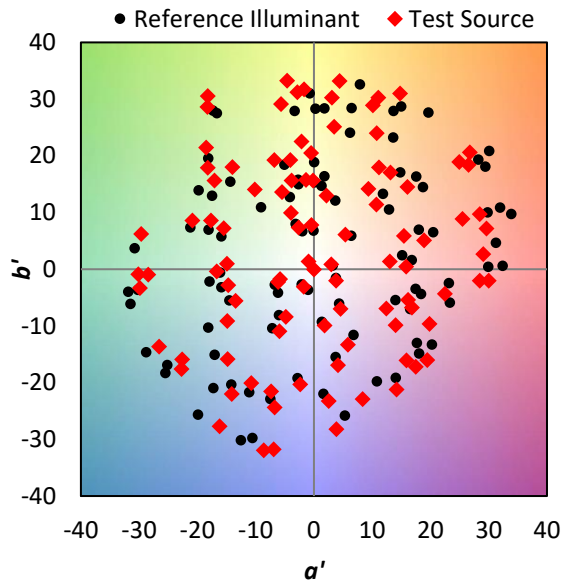
TM-30-18

Summary

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

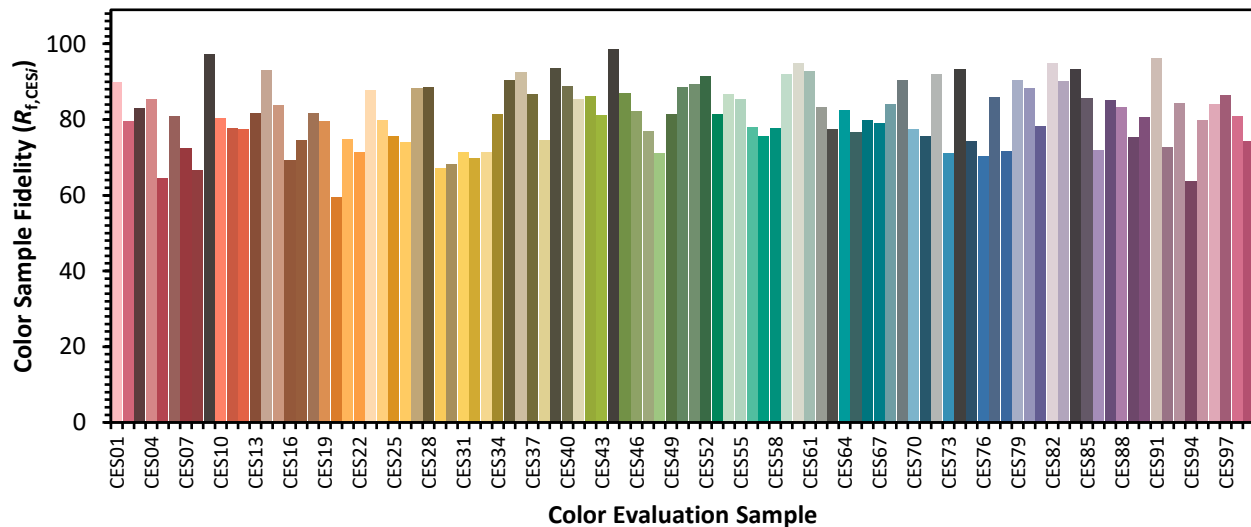


Color Vector Graphics

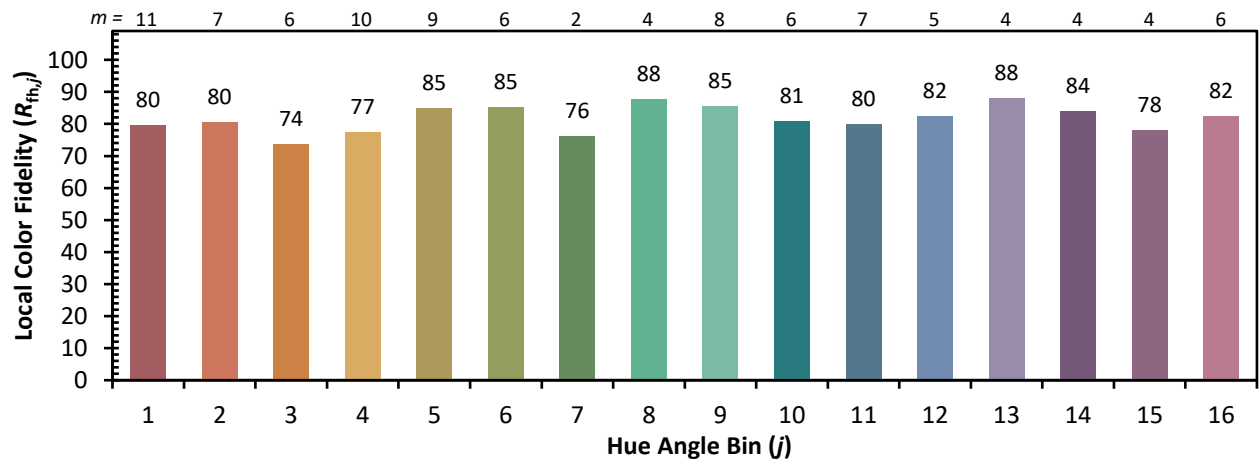


Individual Sample Fidelity Index ($R_{f,i}$)

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)