

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: P1057710

Luminaire Tested: **GAP-SA1C-830-U-RBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1057710
Test Lab: INNOVATION CENTER(G1)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-SA1C-830-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 1050mA 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: 3971.9 lumens
Efficiency: N/A
Efficacy: 80.4 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): 49.4
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

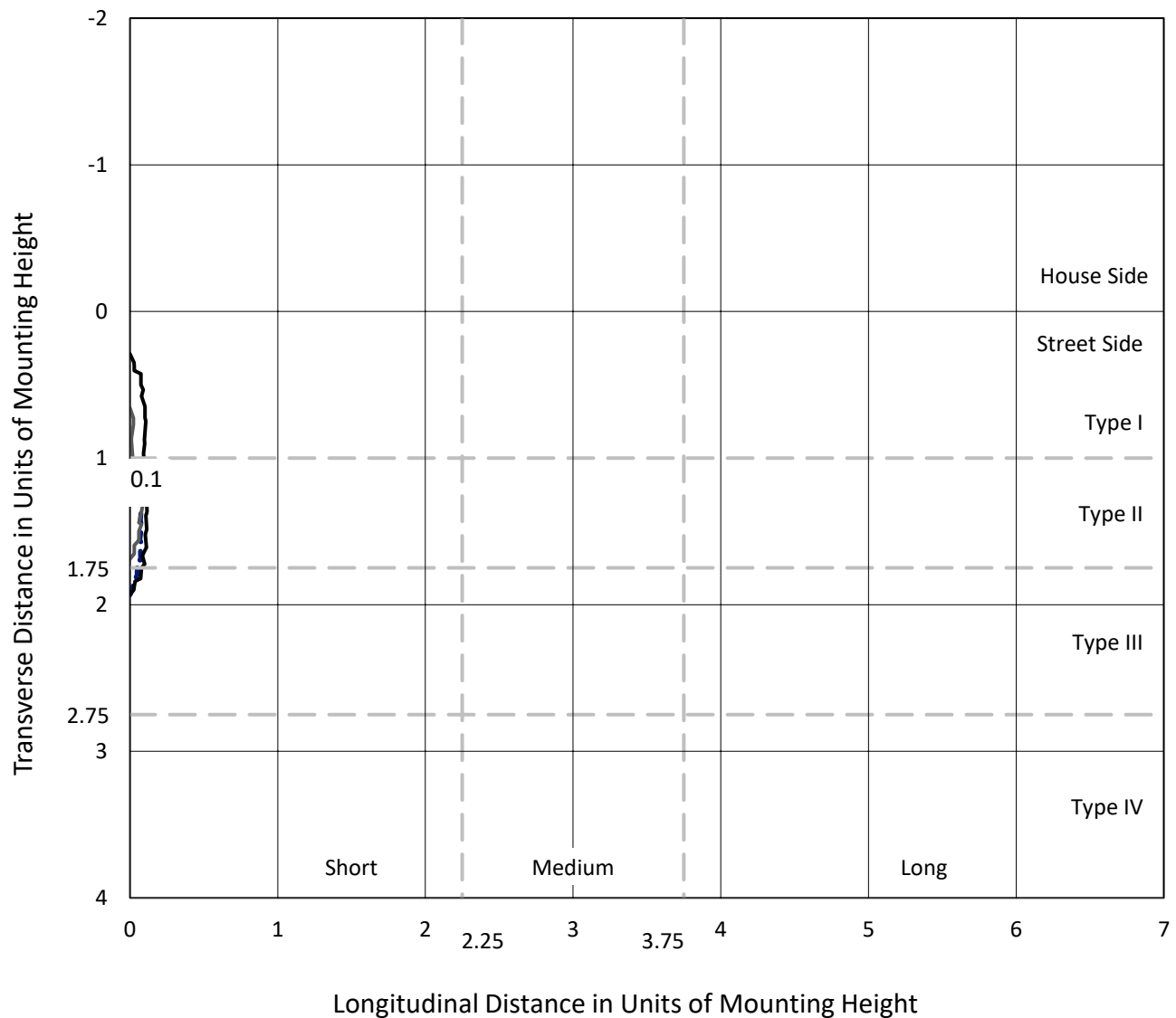


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

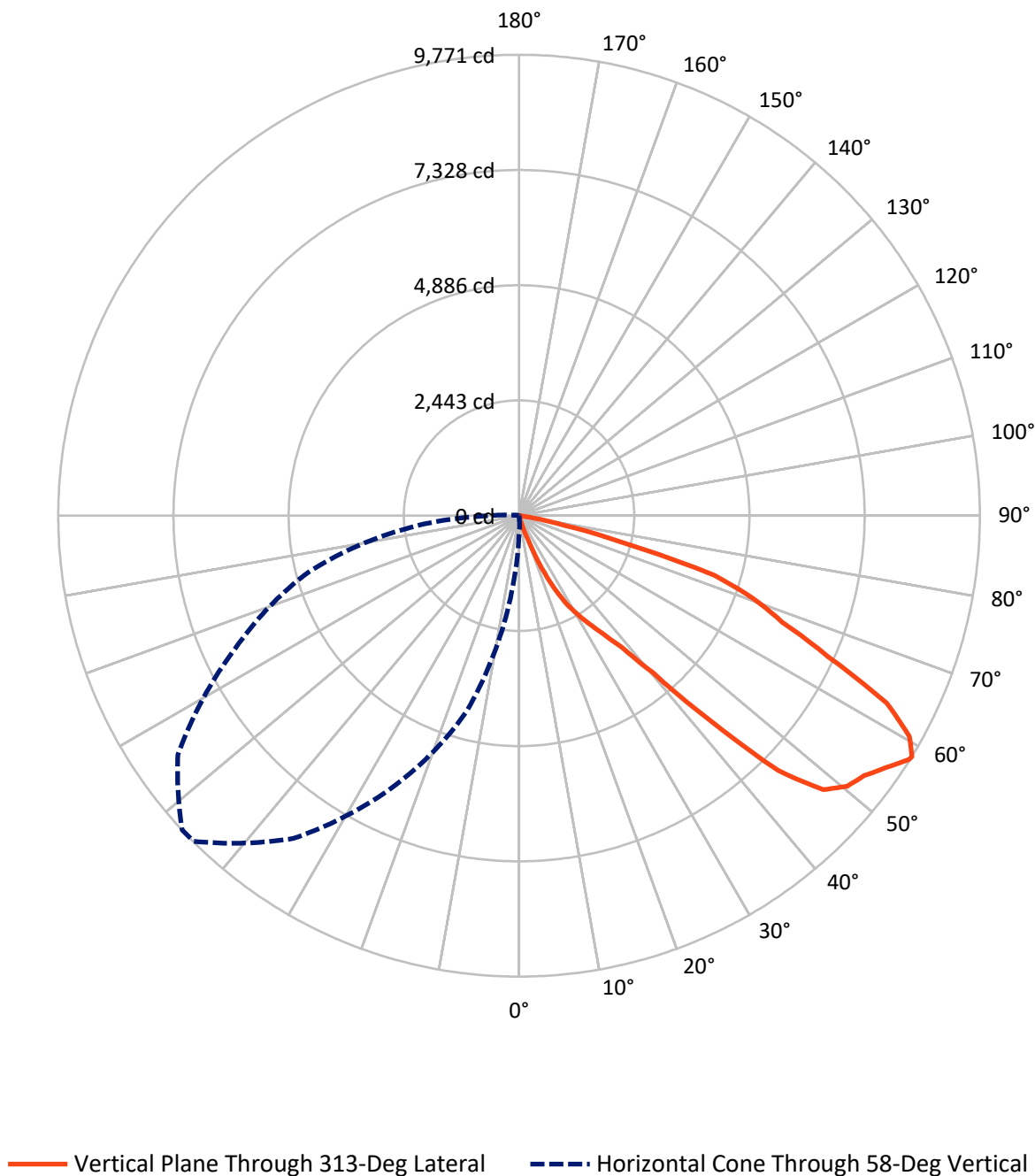


Based on 15 foot mounting height. Maximum calculated value = 0.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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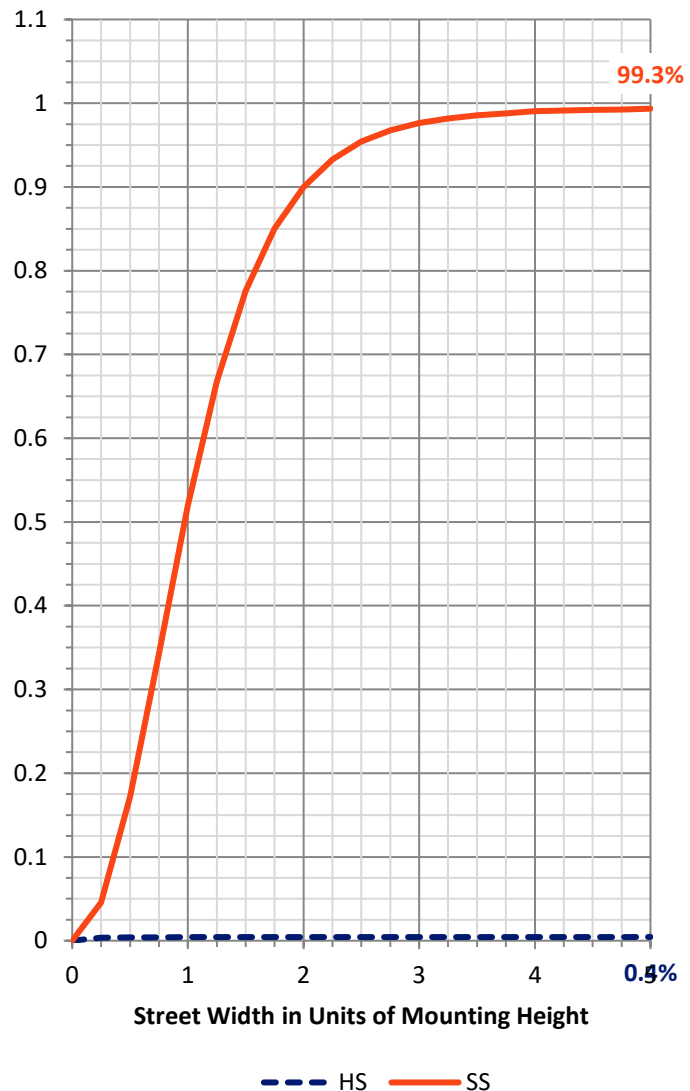
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17.8	0.0	17.8
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	3954.2	0.0	3954.2
	% Fixture	99.6	0.0	99.6
Total	Lumens	3971.9	0.0	3971.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.6	0.0
10°-20°	6.9	0.2
20°-30°	100.3	2.5
30°-40°	288.4	7.3
40°-50°	821.4	20.7
50°-60°	1292.1	32.5
60°-70°	1101.9	27.7
70°-80°	351.5	8.8
80°-90°	9.0	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°	3971.9	100.0
0°-180°	3971.9	100.0



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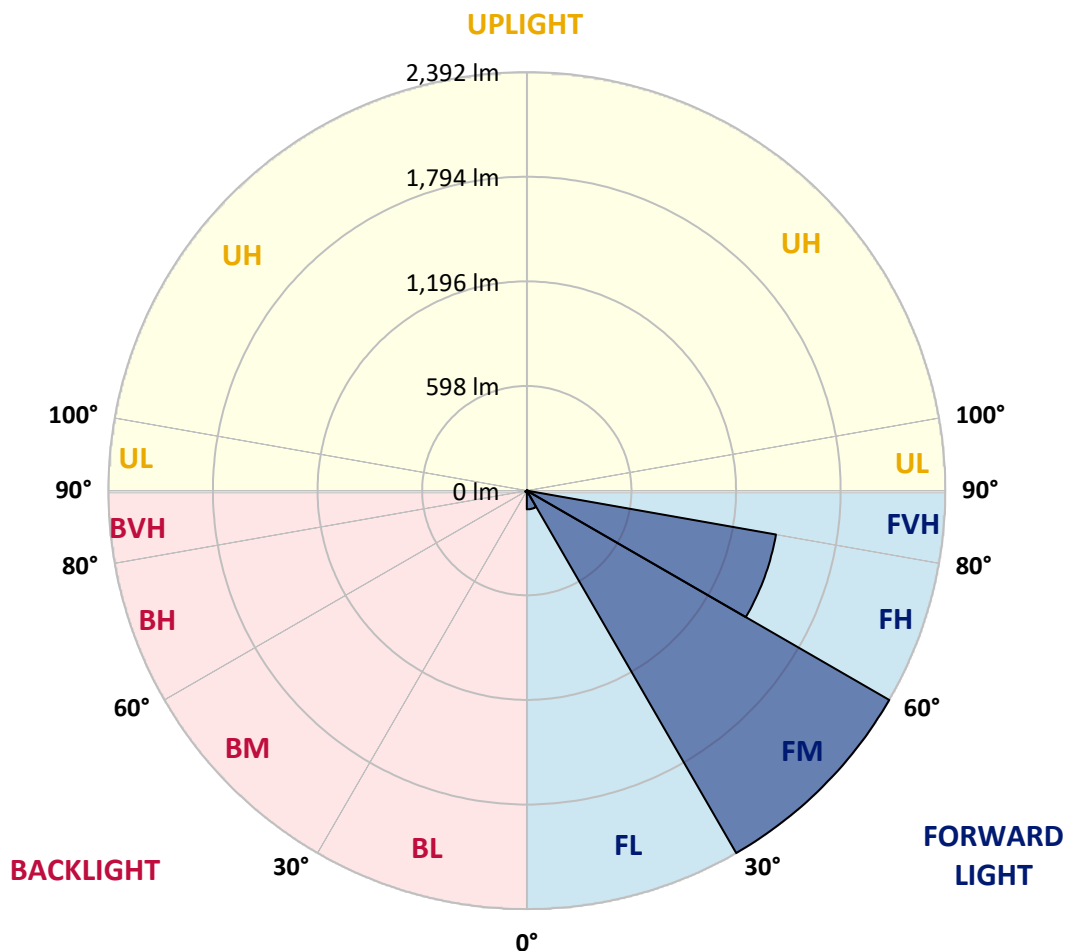
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	107.1	2.7			
FM	(30°-60°)	2392.4	60.2			
FH	(60°-80°)	1446.3	36.4			G1/1800
FVH	(80°-90°)	8.5	0.2			G0/10
BL	(0°-30°)	0.7	0.0	B0/110		
BM	(30°-60°)	9.5	0.2	B0/220		
BH	(60°-80°)	7.1	0.2	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	14.3	15.1	15.9	15.1	13.5	10.3	10.3	7.9	5.6	3.2	2.4
5°	15.9	15.9	15.9	15.1	13.5	10.3	9.5	7.2	4.8	3.2	1.6
7.5°	17.5	17.5	16.7	15.1	12.7	10.3	9.5	7.2	4.8	2.4	0.0
10°	19.1	19.1	17.5	15.9	12.7	9.5	8.7	6.4	4.0	1.6	0.0
12.5°	21.5	20.7	18.3	15.9	12.7	8.7	8.7	6.4	3.2	0.8	0.0
15°	24.6	22.3	19.1	15.9	11.9	8.7	7.9	5.6	2.4	0.0	0.0
17.5°	27.0	24.6	19.9	15.1	11.1	7.9	7.2	4.8	2.4	0.0	0.0
20°	29.4	25.4	19.9	15.1	11.1	7.2	6.4	4.0	0.8	0.0	0.0
22.5°	33.4	27.0	19.9	15.1	10.3	6.4	5.6	3.2	0.0	0.0	0.0
25°	41.3	28.6	19.9	14.3	9.5	5.6	4.8	1.6	0.0	0.0	0.0
27.5°	50.9	31.0	19.9	13.5	8.7	4.8	4.0	0.8	0.0	0.0	0.0
30°	61.2	33.4	19.9	13.5	7.9	4.0	3.2	0.0	0.0	0.0	0.0
32.5°	72.3	36.6	19.9	12.7	7.2	3.2	2.4	0.0	0.0	0.0	0.0
35°	93.0	41.3	19.9	12.7	6.4	2.4	1.6	0.0	0.0	0.0	0.0
37.5°	102.5	47.7	19.9	11.9	6.4	1.6	0.8	0.0	0.0	0.0	0.0
40°	106.5	46.1	19.1	11.9	5.6	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	115.3	42.9	19.9	11.1	5.6	0.8	0.0	0.0	0.0	0.0	0.0
45°	140.7	42.9	21.5	11.1	4.8	1.6	0.0	0.0	0.0	0.0	0.0
47.5°	244.0	44.5	20.7	11.1	4.8	1.6	0.0	0.0	0.0	0.0	0.0
50°	401.4	52.5	19.9	11.9	5.6	0.8	0.0	0.0	0.0	0.0	0.0
52.5°	465.8	63.6	19.9	12.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0
55°	446.7	77.9	19.9	13.5	8.7	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	406.2	73.9	21.5	15.9	11.1	0.0	0.0	0.0	0.0	0.0	0.0
58°	391.1	73.9	21.5	15.9	11.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	306.8	75.5	24.6	17.5	11.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	228.1	77.1	27.8	19.9	11.9	0.8	0.0	0.0	0.0	0.0	0.0
65°	169.3	80.3	29.4	23.1	11.1	1.6	0.0	0.0	0.0	0.0	0.0
67.5°	135.1	82.7	31.8	25.4	12.7	3.2	0.8	0.0	0.0	0.0	0.0
70°	116.1	79.5	34.2	26.2	11.9	4.8	2.4	0.0	0.0	0.0	0.0
72.5°	103.3	74.7	39.0	25.4	12.7	4.8	2.4	0.0	0.0	0.0	0.0
75°	93.0	68.4	44.5	24.6	12.7	4.8	3.2	0.0	0.0	0.0	0.0
77.5°	70.0	59.6	43.7	23.8	11.9	4.8	3.2	0.0	0.0	0.0	0.0
80°	35.0	39.7	38.2	21.5	9.5	4.0	3.2	0.8	0.0	0.0	0.0
82.5°	14.3	15.1	19.1	15.9	7.9	3.2	3.2	0.8	0.0	0.0	0.0
85°	1.6	3.2	5.6	6.4	5.6	3.2	3.2	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	3.2	4.8	4.0	2.4	1.6	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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
5°	0.8	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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	0.8	1.6	1.6	1.6	2.4	2.4	3.2	4.0	4.0	4.0	4.8
5°	0.0	0.0	0.8	0.8	1.6	2.4	3.2	4.8	5.6	5.6	6.4
7.5°	0.0	0.0	0.0	0.8	1.6	2.4	3.2	4.8	6.4	7.2	7.9
10°	0.0	0.0	0.0	0.0	0.8	1.6	3.2	5.6	7.9	9.5	11.1
12.5°	0.0	0.0	0.0	0.0	0.0	0.8	3.2	6.4	9.5	11.9	13.5
15°	0.0	0.0	0.0	0.0	0.0	0.8	3.2	6.4	11.9	14.3	17.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	7.2	13.5	17.5	23.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7.2	15.1	21.5	35.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7.2	16.7	27.8	66.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	7.2	19.1	41.3	109.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	7.9	23.1	58.0	160.6
30°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	7.9	28.6	78.7	224.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	7.9	33.4	99.4	305.2
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	39.7	132.0	383.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	49.3	145.5	449.1
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	46.9	158.2	524.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	42.9	176.5	643.1
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	42.9	233.7	905.4
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	52.5	364.1	1383.9
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	67.6	558.8	1970.6
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	81.9	687.6	2310.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	98.6	688.4	2299.7
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	109.7	616.1	2075.5
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	108.9	596.2	2013.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	7.9	95.4	517.5	1757.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	12.7	83.5	371.2	1457.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.4	14.3	76.3	269.5	1093.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.9	16.7	73.1	190.8	760.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	9.5	19.1	67.6	136.7	500.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.5	23.8	63.6	107.3	302.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	9.5	30.2	55.6	87.4	162.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.5	32.6	46.1	63.6	98.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	8.7	29.4	33.4	27.8	33.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	17.5	7.2	7.2	11.1
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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	5.6	5.6	5.6	5.6	6.4	6.4	8.7	11.1	13.5	14.3
5°	7.2	7.9	8.7	8.7	8.7	9.5	11.1	12.7	15.1	15.9
7.5°	10.3	11.1	12.7	12.7	12.7	13.5	14.3	15.9	17.5	17.5
10°	13.5	15.9	16.7	17.5	18.3	18.3	18.3	19.1	19.9	19.1
12.5°	18.3	21.5	25.4	26.2	26.2	26.2	25.4	23.8	22.3	21.5
15°	25.4	35.0	47.7	52.5	50.1	44.5	39.0	30.2	26.2	24.6
17.5°	46.9	95.4	173.3	191.6	187.6	161.4	94.6	46.1	31.0	27.0
20°	126.4	308.4	508.7	557.2	582.7	482.5	279.0	107.3	38.2	29.4
22.5°	272.7	640.7	992.8	1118.4	1126.4	906.2	542.9	217.8	54.8	33.4
25°	438.8	1024.6	1504.8	1626.4	1628.8	1396.7	868.0	352.9	83.5	41.3
27.5°	672.5	1436.4	1973.8	2074.7	2073.1	1837.8	1254.4	538.9	116.9	50.9
30°	911.8	1757.5	2283.0	2408.6	2420.5	2139.1	1577.1	759.1	152.6	61.2
32.5°	1148.6	1995.2	2565.2	2732.1	2721.8	2405.4	1802.1	939.6	213.8	72.3
35°	1335.4	2197.9	2877.6	3082.6	3090.6	2697.9	2001.6	1114.5	266.3	93.0
37.5°	1495.2	2459.4	3293.3	3530.2	3540.5	3062.0	2210.6	1286.2	311.6	102.5
40°	1692.4	2888.7	3981.7	4383.9	4385.5	3740.8	2586.6	1478.5	372.8	106.5
42.5°	2135.1	3808.4	5326.7	5904.6	5954.6	5149.4	3441.1	1895.9	469.0	115.3
45°	3020.6	5020.6	7042.1	7707.4	7771.0	6902.2	4906.2	2859.3	680.4	140.7
47.5°	4073.9	6074.7	8038.9	8679.6	8721.7	7731.3	5887.1	3973.7	1158.2	244.0
50°	4721.7	6465.0	8405.3	9016.6	9023.8	8003.9	6194.7	4552.4	1650.2	401.4
52.5°	4922.9	6515.1	8419.6	9158.9	9179.6	7972.1	6236.8	4669.3	1855.3	465.8
55°	4841.0	6485.6	8570.7	9430.8	9453.0	8101.7	6208.2	4541.3	1759.1	446.7
57.5°	4654.2	6600.1	8818.7	9753.5	9753.5	8341.0	6313.9	4326.7	1523.8	406.2
58°	4626.4	6628.7	8832.2	9771.0	9763.8	8356.1	6357.7	4295.7	1472.2	391.1
60°	4588.2	6717.0	8732.0	9512.6	9492.0	8249.5	6437.1	4267.9	1221.8	306.8
62.5°	4532.6	6518.2	8002.3	8752.7	8699.5	7503.1	6209.0	4104.9	911.8	228.1
65°	4247.2	5784.5	6670.9	7190.7	7174.0	6172.4	5344.2	3677.2	656.6	169.3
67.5°	3580.3	4528.6	5388.7	6015.1	6019.0	5038.9	4179.6	2938.8	446.7	135.1
70°	2518.3	3340.2	4581.0	5278.2	5310.0	4226.5	3096.2	1958.6	294.9	116.1
72.5°	1504.0	2523.0	3809.2	4338.6	4321.9	3507.1	2297.3	1167.7	179.6	103.3
75°	728.9	1507.9	1925.3	2232.9	2220.2	1754.4	1224.2	572.3	131.2	93.0
77.5°	197.9	463.4	745.6	969.8	996.0	702.7	401.4	153.4	81.9	70.0
80°	66.8	143.1	243.2	330.7	339.4	303.7	151.0	54.1	35.8	35.0
82.5°	25.4	35.0	44.5	39.7	39.7	41.3	32.6	23.1	16.7	14.3
85°	0.0	0.0	0.8	1.6	1.6	2.4	2.4	2.4	1.6	1.6
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

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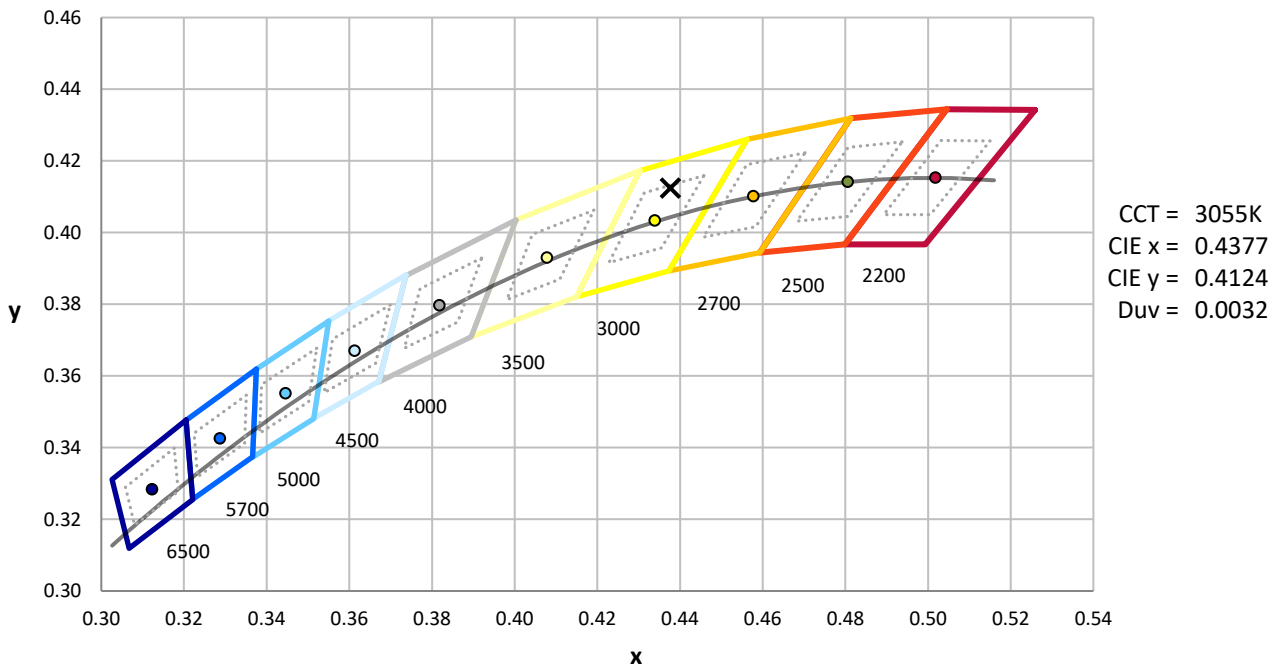
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

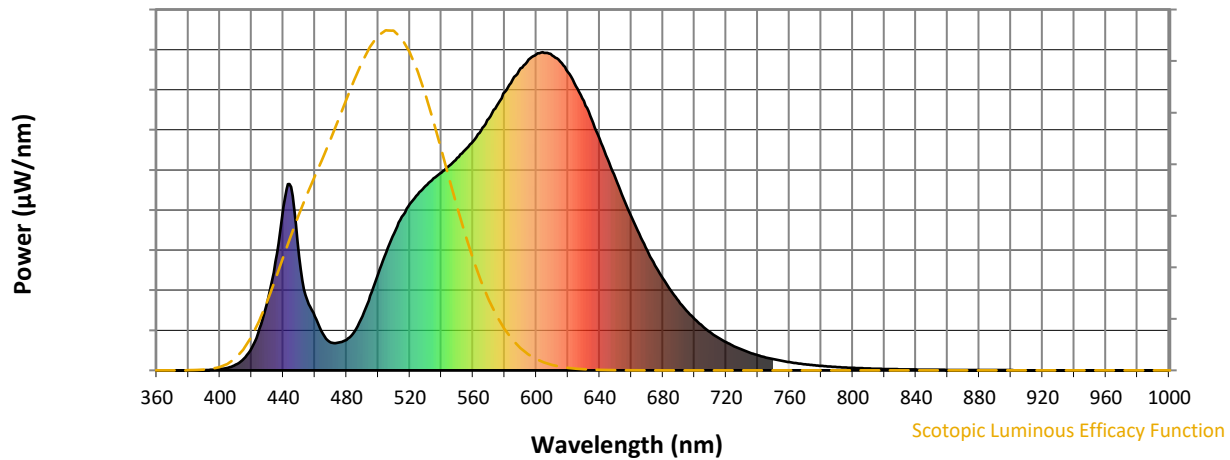


Photopic Lumens: NR

λ (nm)	Power 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



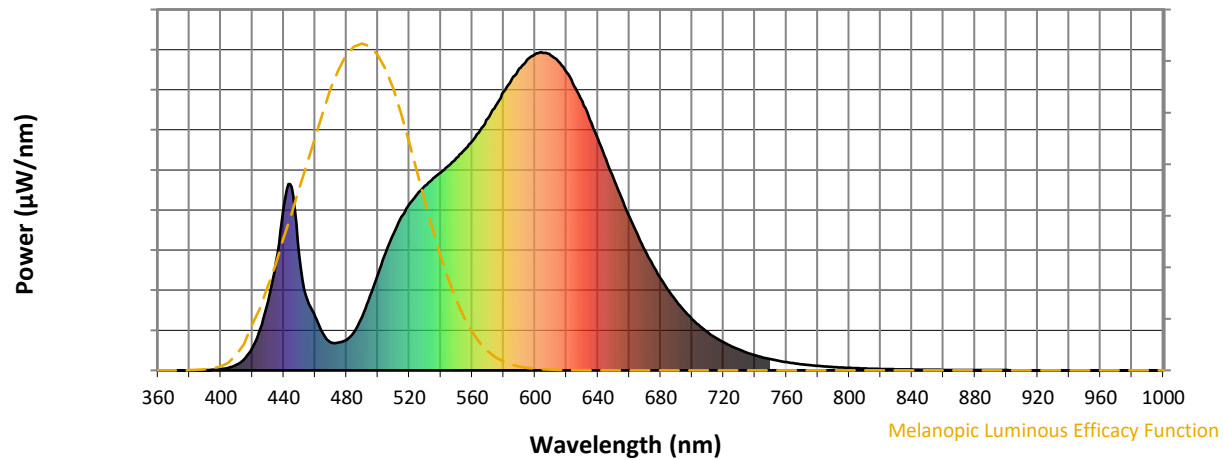
Scotopic Lumens: NR

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			

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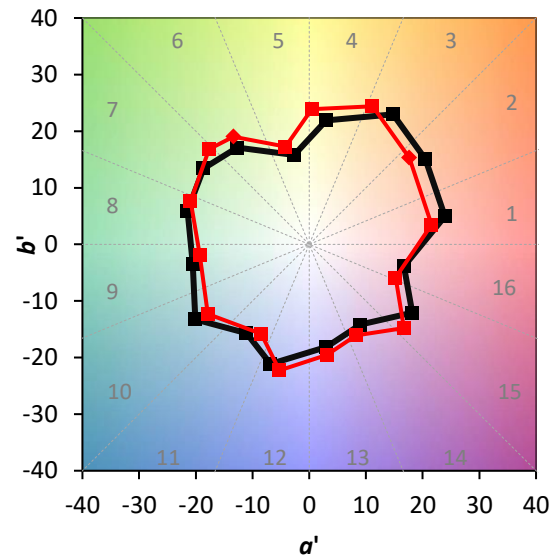
TM-30-18

Summary

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

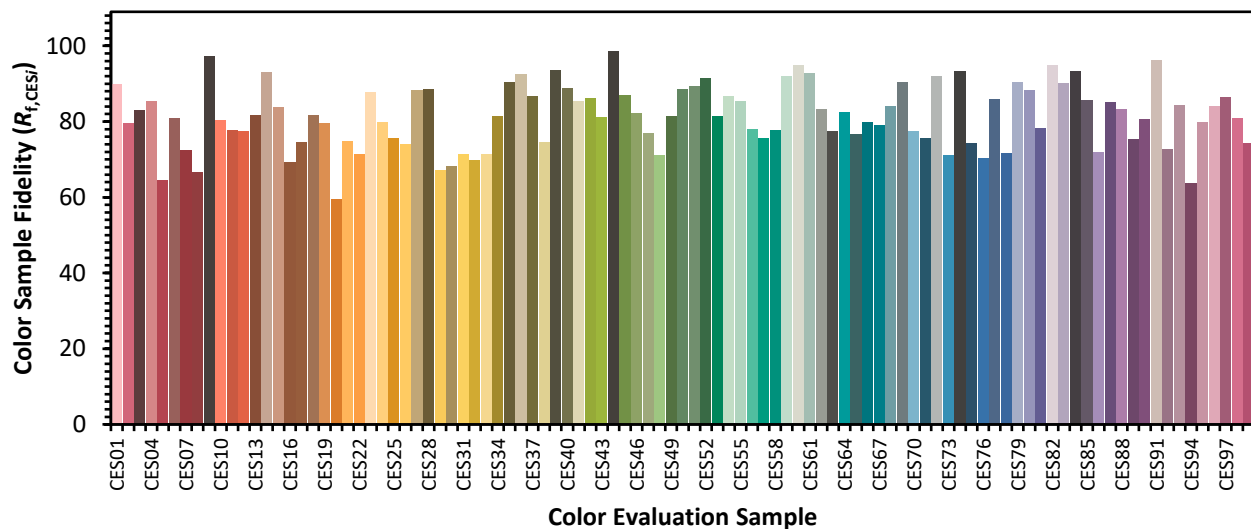


Color Vector Graphics

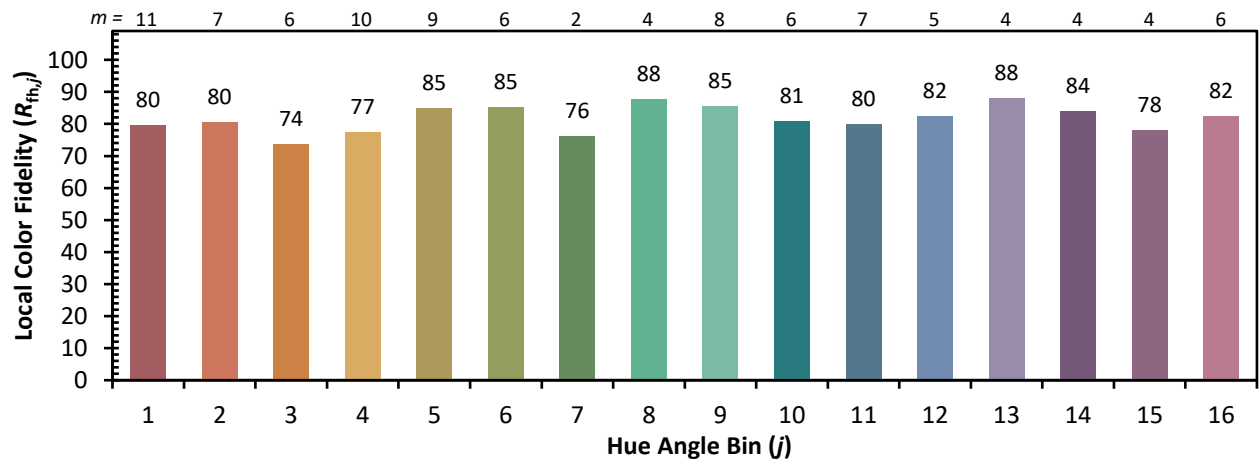


Individual Sample Fidelity Index ($R_{f,i}$)

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)