

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: P991242

Luminaire Tested: **GPC-SA1B-730-U-RBC**

Issue Date: 07/03/2025

Test Information

Test Method: LM-79-08
Report Number: P991242
Test Lab: INNOVATION CENTER(G1)
Issue Date: 07/03/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-SA1B-730-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 800mA 1xLight Square PACKAGE 70CRI
3000K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3693.2 lumens
Efficiency: N/A
Efficacy: 96.9 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: 24 FT



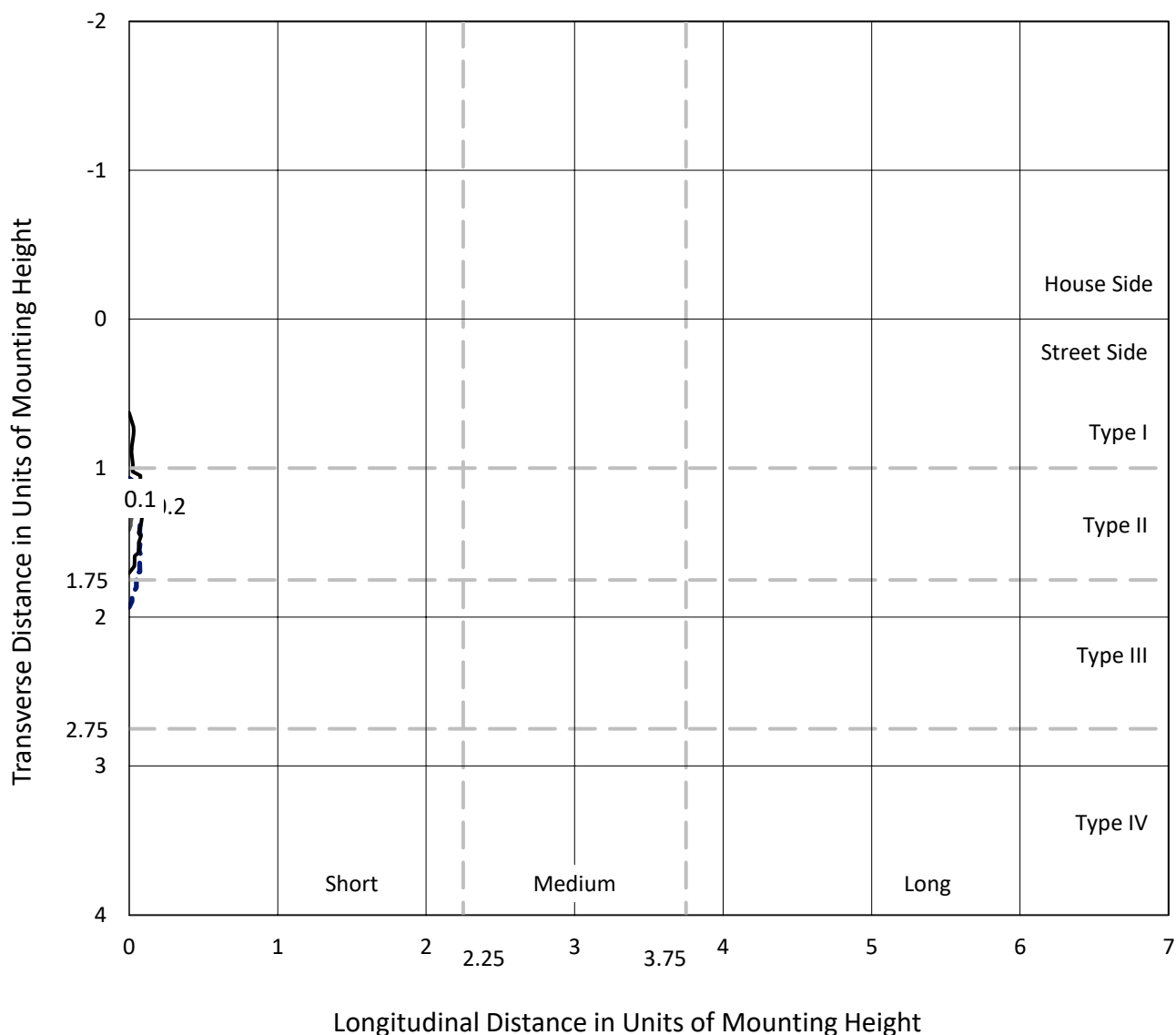
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

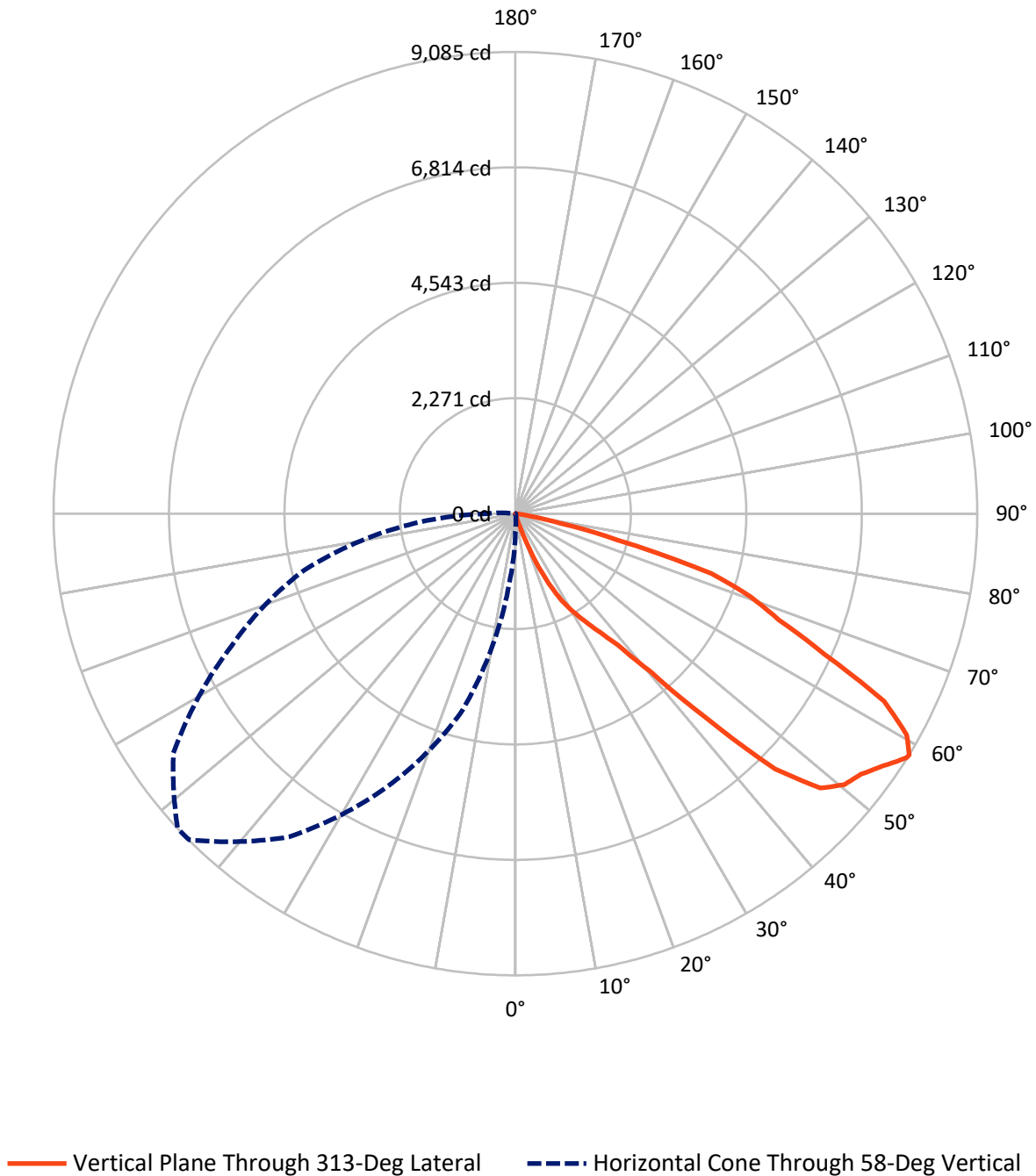


Based on 20 foot mounting height. Maximum calculated value = 0.2 fc

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	16.5	0.0	16.5
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	3676.7	0.0	3676.7
	% Fixture	99.6	0.0	99.6
Total	Lumens	3693.2	0.0	3693.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.0
10°-20°	6.4	0.2
20°-30°	93.3	2.5
30°-40°	268.1	7.3
40°-50°	763.8	20.7
50°-60°	1201.4	32.5
60°-70°	1024.5	27.7
70°-80°	326.8	8.8
80°-90°	8.3	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°	3693.2	100.0
0°-180°	3693.2	100.0



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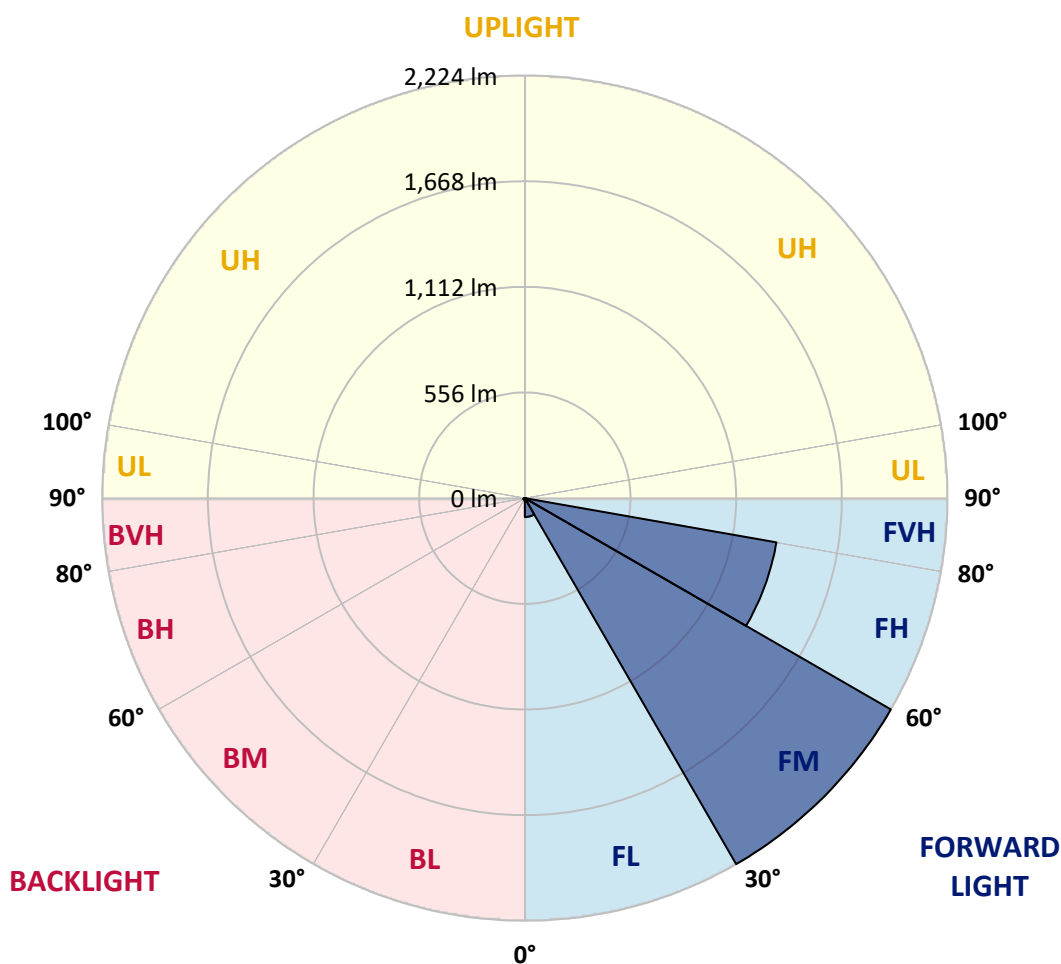
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	99.6	2.7			
FM	(30°-60°)	2224.5	60.2			
FH	(60°-80°)	1344.8	36.4			G1/1800
FVH	(80°-90°)	7.9	0.2			G0/10
BL	(0°-30°)	0.7	0.0	B0/110		
BM	(30°-60°)	8.8	0.2	B0/220		
BH	(60°-80°)	6.6	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°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
2.5°	13.3	14.0	14.8	14.0	12.6	9.6	9.6	7.4	5.2	3.0	2.2
5°	14.8	14.8	14.8	14.0	12.6	9.6	8.9	6.7	4.4	3.0	1.5
7.5°	16.3	16.3	15.5	14.0	11.8	9.6	8.9	6.7	4.4	2.2	0.0
10°	17.7	17.7	16.3	14.8	11.8	8.9	8.1	5.9	3.7	1.5	0.0
12.5°	20.0	19.2	17.0	14.8	11.8	8.1	8.1	5.9	3.0	0.7	0.0
15°	22.9	20.7	17.7	14.8	11.1	8.1	7.4	5.2	2.2	0.0	0.0
17.5°	25.1	22.9	18.5	14.0	10.3	7.4	6.7	4.4	2.2	0.0	0.0
20°	27.3	23.7	18.5	14.0	10.3	6.7	5.9	3.7	0.7	0.0	0.0
22.5°	31.0	25.1	18.5	14.0	9.6	5.9	5.2	3.0	0.0	0.0	0.0
25°	38.4	26.6	18.5	13.3	8.9	5.2	4.4	1.5	0.0	0.0	0.0
27.5°	47.3	28.8	18.5	12.6	8.1	4.4	3.7	0.7	0.0	0.0	0.0
30°	56.9	31.0	18.5	12.6	7.4	3.7	3.0	0.0	0.0	0.0	0.0
32.5°	67.3	34.0	18.5	11.8	6.7	3.0	2.2	0.0	0.0	0.0	0.0
35°	86.5	38.4	18.5	11.8	5.9	2.2	1.5	0.0	0.0	0.0	0.0
37.5°	95.3	44.3	18.5	11.1	5.9	1.5	0.7	0.0	0.0	0.0	0.0
40°	99.0	42.9	17.7	11.1	5.2	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	107.2	39.9	18.5	10.3	5.2	0.7	0.0	0.0	0.0	0.0	0.0
45°	130.8	39.9	20.0	10.3	4.4	1.5	0.0	0.0	0.0	0.0	0.0
47.5°	226.9	41.4	19.2	10.3	4.4	1.5	0.0	0.0	0.0	0.0	0.0
50°	373.3	48.8	18.5	11.1	5.2	0.7	0.0	0.0	0.0	0.0	0.0
52.5°	433.1	59.1	18.5	11.8	6.7	0.0	0.0	0.0	0.0	0.0	0.0
55°	415.4	72.4	18.5	12.6	8.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	377.7	68.7	20.0	14.8	10.3	0.0	0.0	0.0	0.0	0.0	0.0
58°	363.6	68.7	20.0	14.8	10.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	285.3	70.2	22.9	16.3	11.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	212.1	71.7	25.9	18.5	11.1	0.7	0.0	0.0	0.0	0.0	0.0
65°	157.4	74.7	27.3	21.4	10.3	1.5	0.0	0.0	0.0	0.0	0.0
67.5°	125.7	76.9	29.6	23.7	11.8	3.0	0.7	0.0	0.0	0.0	0.0
70°	107.9	73.9	31.8	24.4	11.1	4.4	2.2	0.0	0.0	0.0	0.0
72.5°	96.1	69.5	36.2	23.7	11.8	4.4	2.2	0.0	0.0	0.0	0.0
75°	86.5	63.6	41.4	22.9	11.8	4.4	3.0	0.0	0.0	0.0	0.0
77.5°	65.0	55.4	40.7	22.2	11.1	4.4	3.0	0.0	0.0	0.0	0.0
80°	32.5	37.0	35.5	20.0	8.9	3.7	3.0	0.7	0.0	0.0	0.0
82.5°	13.3	14.0	17.7	14.8	7.4	3.0	3.0	0.7	0.0	0.0	0.0
85°	1.5	3.0	5.2	5.9	5.2	3.0	3.0	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	3.0	4.4	3.7	2.2	1.5	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°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
2.5°	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
5°	0.7	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°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
2.5°	0.7	1.5	1.5	1.5	2.2	2.2	3.0	3.7	3.7	3.7	4.4
5°	0.0	0.0	0.7	0.7	1.5	2.2	3.0	4.4	5.2	5.2	5.9
7.5°	0.0	0.0	0.0	0.7	1.5	2.2	3.0	4.4	5.9	6.7	7.4
10°	0.0	0.0	0.0	0.0	0.7	1.5	3.0	5.2	7.4	8.9	10.3
12.5°	0.0	0.0	0.0	0.0	0.0	0.7	3.0	5.9	8.9	11.1	12.6
15°	0.0	0.0	0.0	0.0	0.0	0.7	3.0	5.9	11.1	13.3	16.3
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.7	12.6	16.3	22.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.7	14.0	20.0	33.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.7	15.5	25.9	61.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	6.7	17.7	38.4	102.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	7.4	21.4	54.0	149.3
30°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	7.4	26.6	73.2	208.4
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	7.4	31.0	92.4	283.8
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	37.0	122.7	356.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	45.8	135.3	417.6
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	43.6	147.1	487.8
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	39.9	164.1	597.9
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	39.9	217.3	841.9
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	48.8	338.5	1286.8
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	62.8	519.6	1832.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	76.1	639.3	2148.6
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	91.7	640.1	2138.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	102.0	572.8	1929.8
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	101.3	554.3	1872.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	7.4	88.7	481.2	1634.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	11.8	77.6	345.2	1354.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	5.9	13.3	71.0	250.6	1017.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.4	15.5	68.0	177.4	707.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	8.9	17.7	62.8	127.1	465.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.9	22.2	59.1	99.8	280.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	8.9	28.1	51.7	81.3	150.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.9	30.3	42.9	59.1	91.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	8.1	27.3	31.0	25.9	31.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	16.3	6.7	6.7	10.3
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°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
2.5°	5.2	5.2	5.2	5.2	5.9	5.9	8.1	10.3	12.6	13.3
5°	6.7	7.4	8.1	8.1	8.1	8.9	10.3	11.8	14.0	14.8
7.5°	9.6	10.3	11.8	11.8	11.8	12.6	13.3	14.8	16.3	16.3
10°	12.6	14.8	15.5	16.3	17.0	17.0	17.0	17.7	18.5	17.7
12.5°	17.0	20.0	23.7	24.4	24.4	24.4	23.7	22.2	20.7	20.0
15°	23.7	32.5	44.3	48.8	46.6	41.4	36.2	28.1	24.4	22.9
17.5°	43.6	88.7	161.1	178.1	174.4	150.0	88.0	42.9	28.8	25.1
20°	117.5	286.8	473.0	518.1	541.8	448.6	259.4	99.8	35.5	27.3
22.5°	253.5	595.7	923.2	1039.9	1047.3	842.6	504.8	202.5	51.0	31.0
25°	408.0	952.7	1399.2	1512.2	1514.5	1298.6	807.1	328.2	77.6	38.4
27.5°	625.3	1335.6	1835.2	1929.1	1927.6	1708.8	1166.3	501.1	108.7	47.3
30°	847.8	1634.2	2122.7	2239.5	2250.6	1989.0	1466.4	705.9	141.9	56.9
32.5°	1068.0	1855.2	2385.1	2540.4	2530.7	2236.6	1675.6	873.6	198.8	67.3
35°	1241.7	2043.7	2675.6	2866.3	2873.7	2508.6	1861.1	1036.2	247.6	86.5
37.5°	1390.3	2286.8	3062.2	3282.4	3292.0	2847.1	2055.5	1195.9	289.7	95.3
40°	1573.6	2686.0	3702.2	4076.2	4077.7	3478.3	2405.1	1374.8	346.6	99.0
42.5°	1985.3	3541.1	4952.8	5490.2	5536.7	4788.0	3199.6	1762.8	436.1	107.2
45°	2808.7	4668.3	6547.9	7166.5	7225.6	6417.8	4561.8	2658.6	632.7	130.8
47.5°	3788.0	5648.3	7474.7	8070.4	8109.6	7188.7	5473.9	3694.9	1076.9	226.9
50°	4390.4	6011.3	7815.4	8383.8	8390.5	7442.2	5760.0	4232.9	1534.4	373.3
52.5°	4577.4	6057.8	7828.7	8516.1	8535.3	7412.6	5799.1	4341.6	1725.1	433.1
55°	4501.2	6030.5	7969.2	8768.9	8789.6	7533.1	5772.5	4222.6	1635.7	415.4
57.5°	4327.5	6136.9	8199.8	9069.0	9069.0	7755.6	5870.8	4023.0	1416.9	377.7
58°	4301.7	6163.5	8212.3	9085.2	9078.6	7769.6	5911.5	3994.2	1368.8	363.6
60°	4266.2	6245.6	8119.2	8845.0	8825.8	7670.6	5985.4	3968.3	1136.0	285.3
62.5°	4214.5	6060.8	7440.7	8138.4	8088.9	6976.5	5773.3	3816.8	847.8	212.1
65°	3949.1	5378.6	6202.7	6686.1	6670.5	5739.3	4969.1	3419.2	610.5	157.4
67.5°	3329.0	4210.8	5010.5	5592.9	5596.6	4685.3	3886.3	2732.5	415.4	125.7
70°	2341.5	3105.8	4259.5	4907.7	4937.3	3929.9	2878.9	1821.2	274.2	107.9
72.5°	1398.4	2346.0	3541.9	4034.1	4018.6	3261.0	2136.1	1085.8	167.0	96.1
75°	677.8	1402.1	1790.1	2076.2	2064.4	1631.2	1138.2	532.2	122.0	86.5
77.5°	184.0	430.9	693.3	901.7	926.1	653.4	373.3	142.6	76.1	65.0
80°	62.1	133.0	226.2	307.5	315.6	282.3	140.4	50.3	33.3	32.5
82.5°	23.7	32.5	41.4	37.0	37.0	38.4	30.3	21.4	15.5	13.3
85°	0.0	0.0	0.7	1.5	1.5	2.2	2.2	2.2	1.5	1.5
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

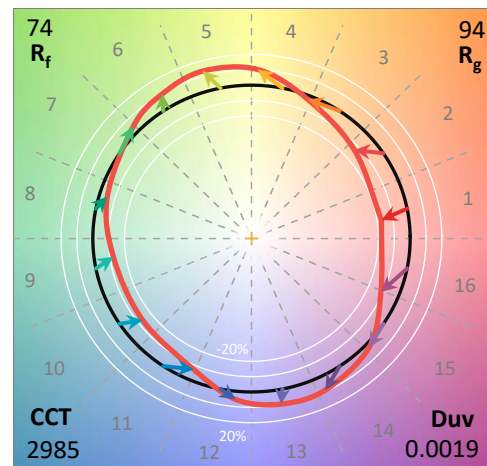
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2985
 CIE u' : 0.2504
 CIE v' : 0.5243
 Duv: 0.0019
 CIE x: 0.4408
 CIE y: 0.4101
 CIE z: 0.1491
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 55.41818
 R_f: 73.8
 R_g: 94.4

CRI (Ra): 70.8
 R1: 66.3
 R2: 80.6
 R3: 94.5
 R4: 68.2
 R5: 66.5
 R6: 74.7
 R7: 76.2
 R8: 39.6
 R9: -43.2
 R10: 57.6
 R11: 64.8
 R12: 53.5
 R13: 68.7
 R14: 97.0
 R15: 56.4



Test Conditions

Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

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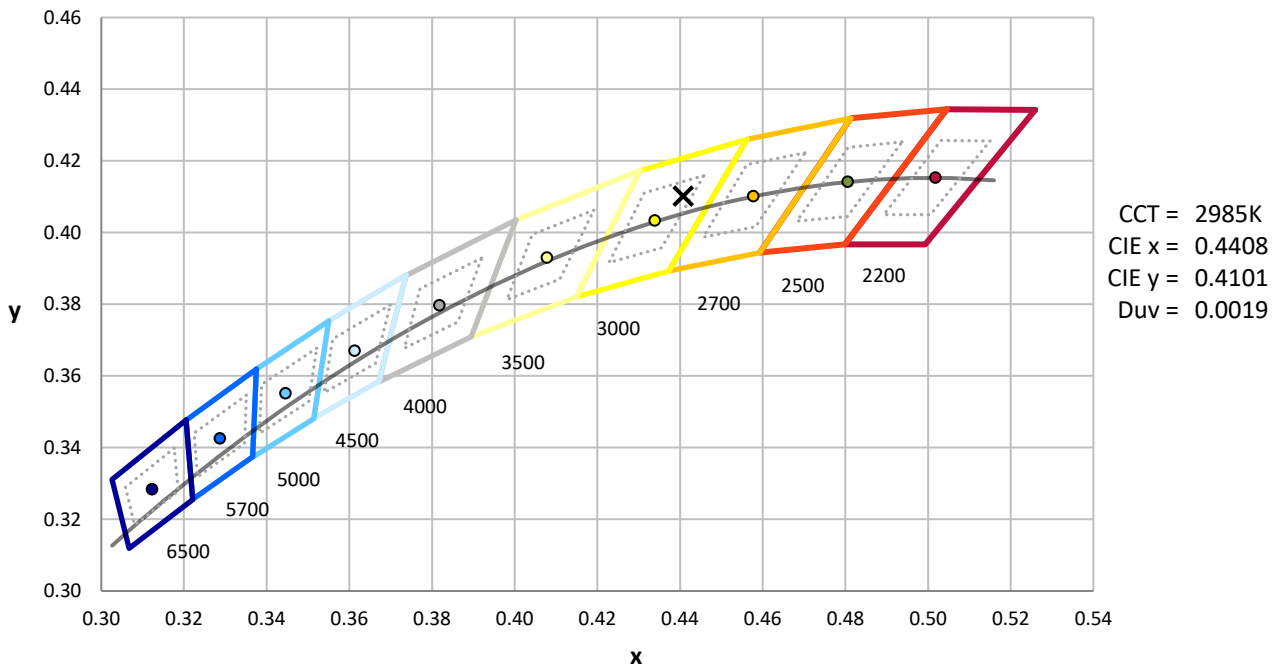
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

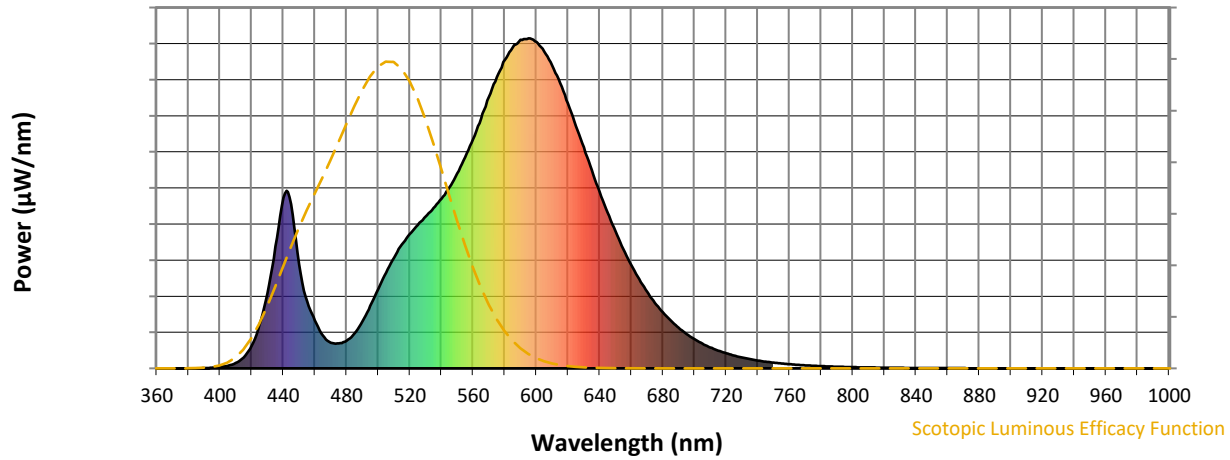


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



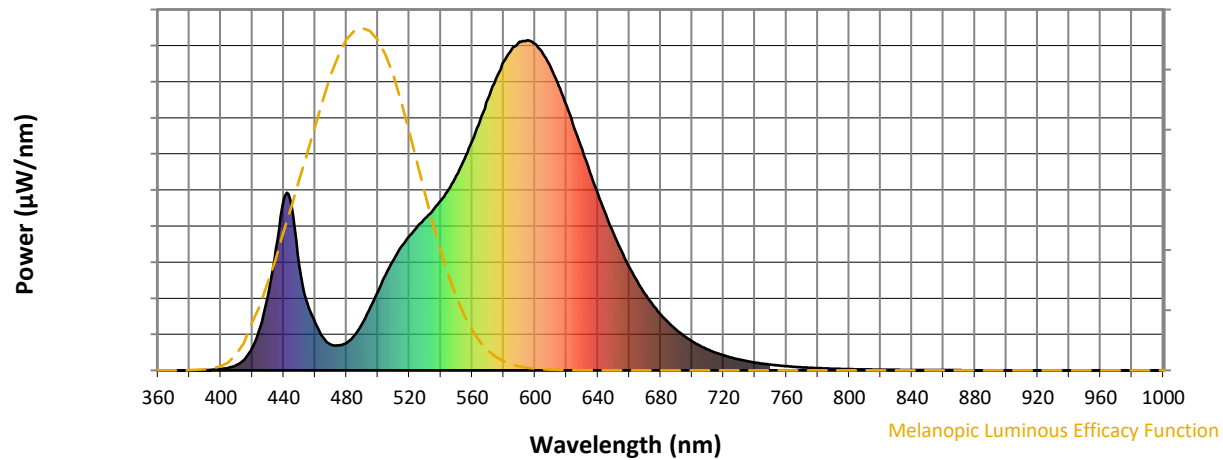
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

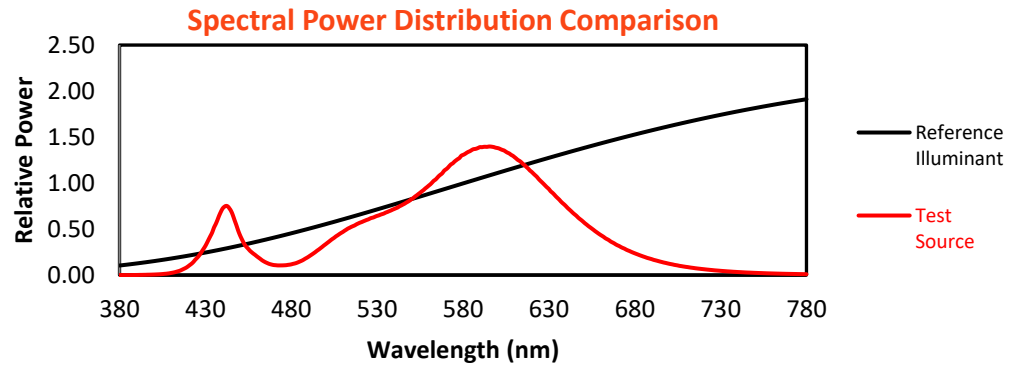
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

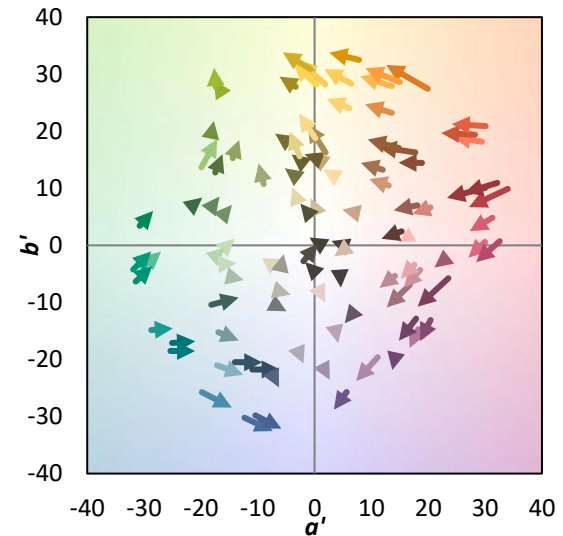
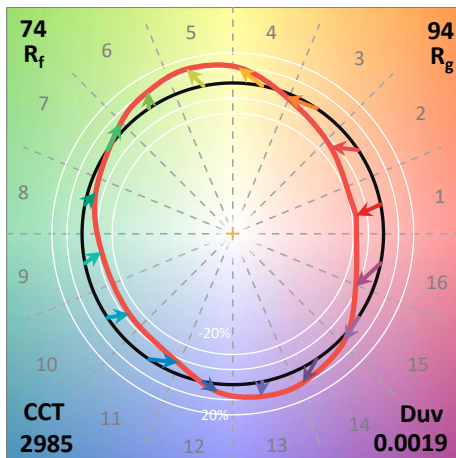
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE\ R_a = 70.8$
 $R_g = -43.2$

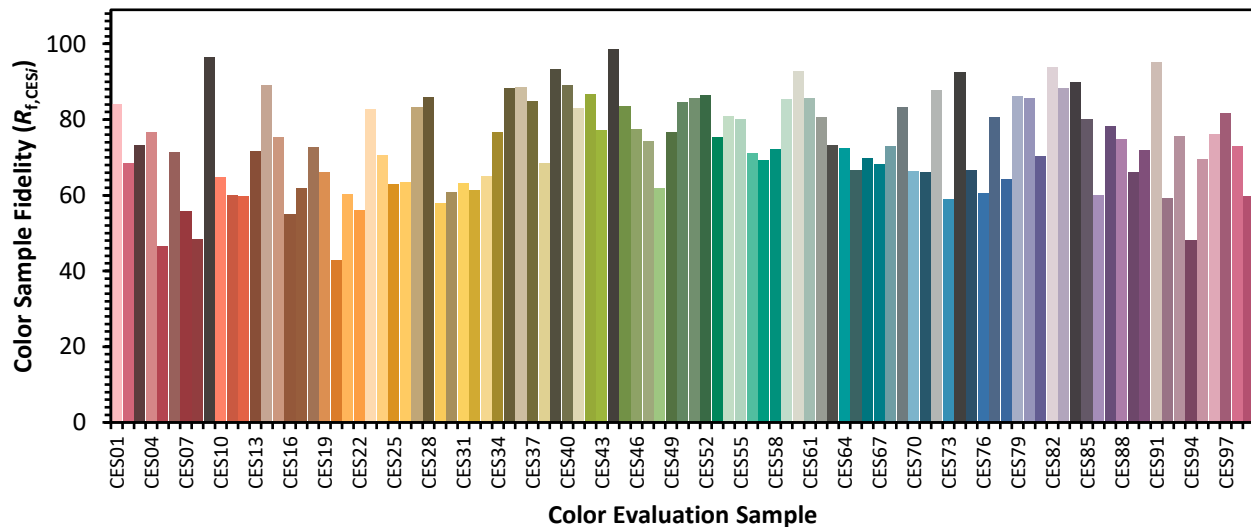


Color Vector Graphics



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

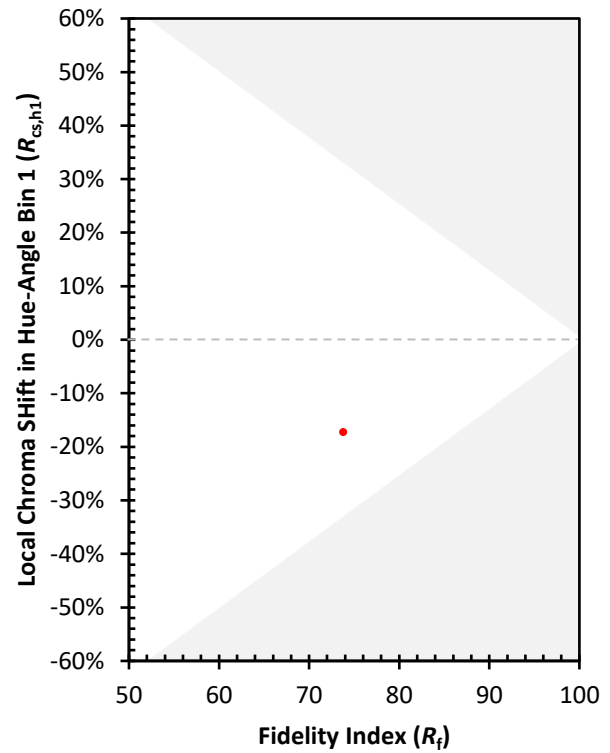
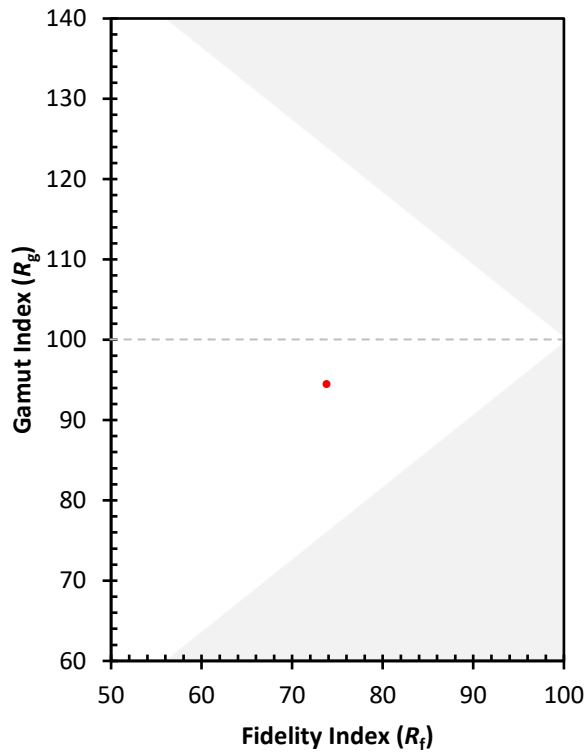
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)