

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: P1057661

Luminaire Tested: **GAP-SA1D-730-U-RBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1057661
Test Lab: INNOVATION CENTER(G1)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-SA1D-730-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 1200mA 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: 4987.4 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 56.1
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

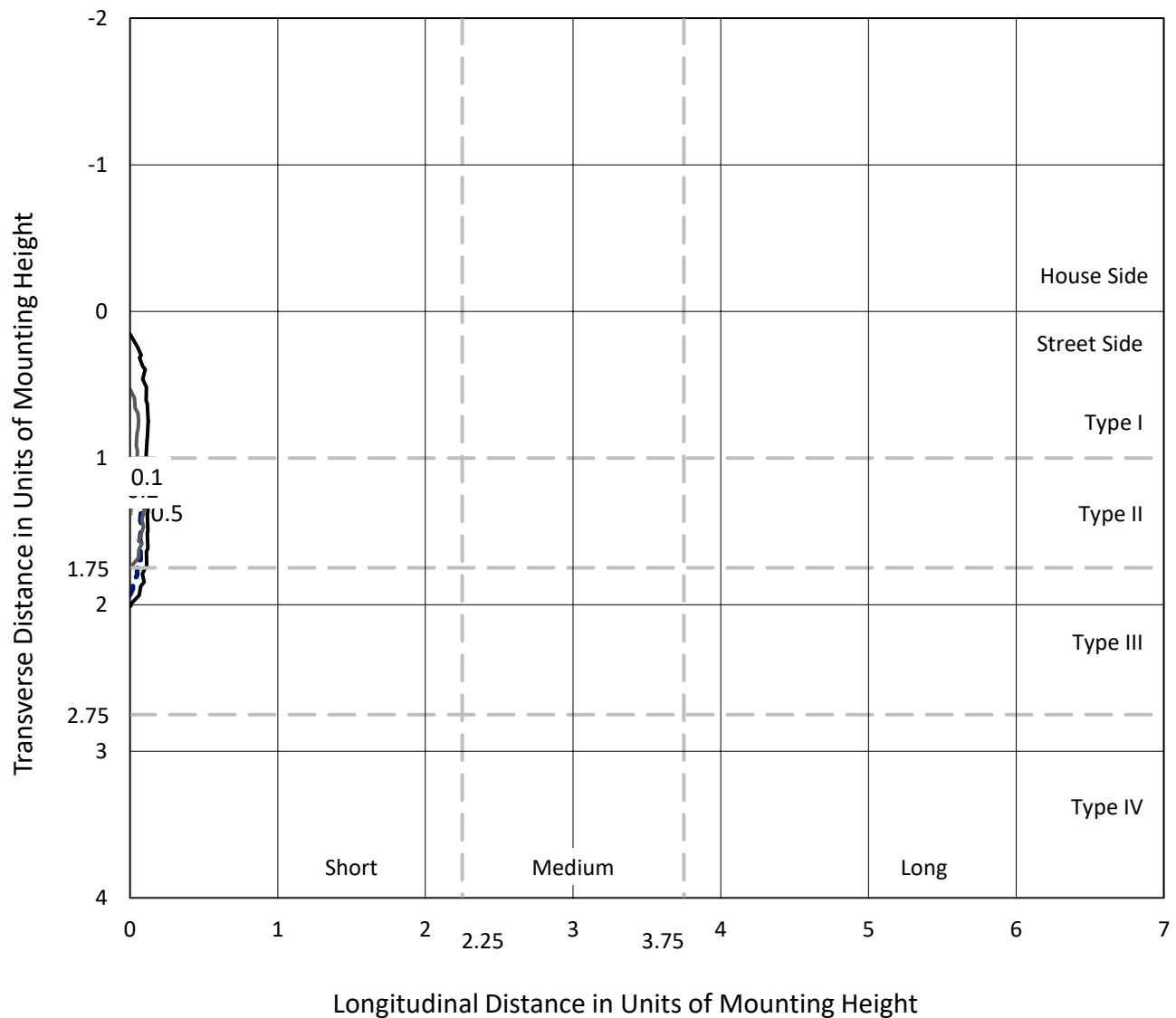


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

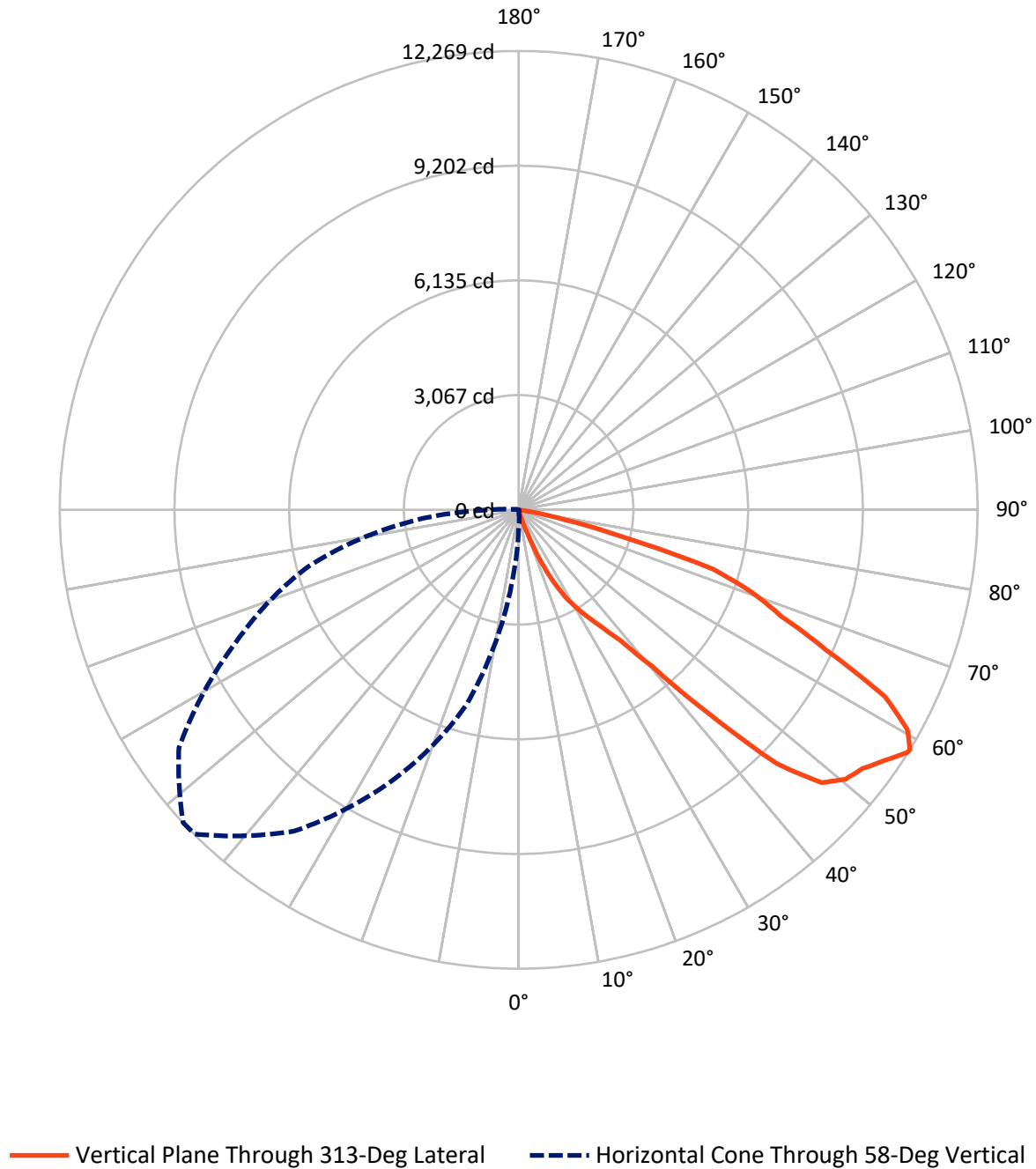


Based on 15 foot mounting height. Maximum calculated value = 0.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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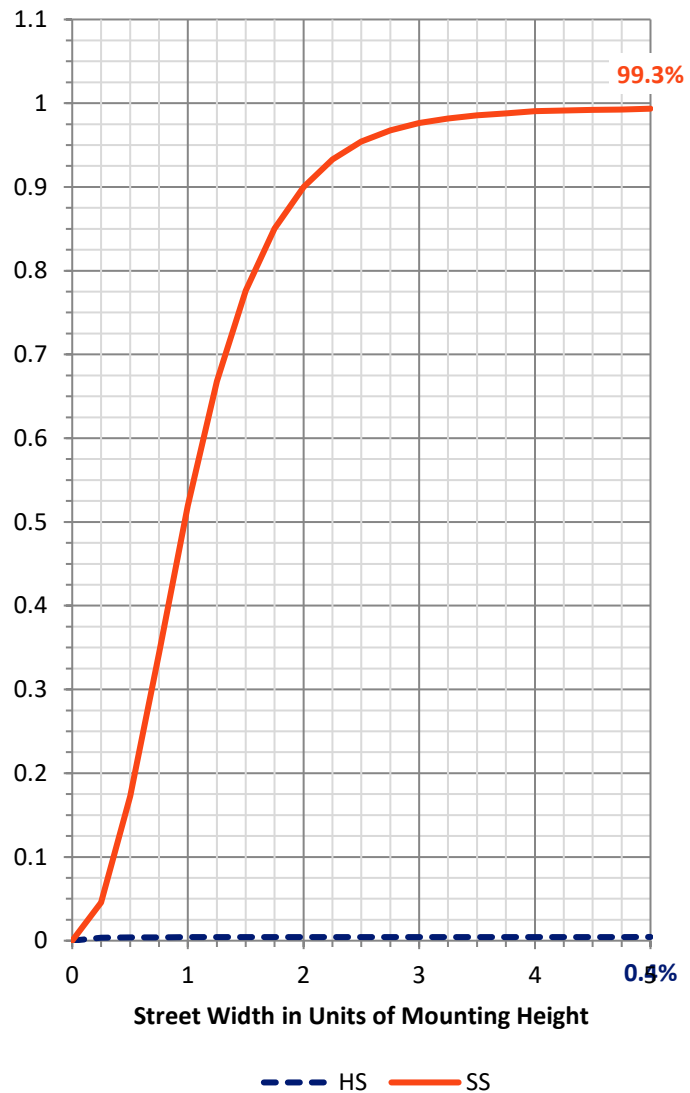
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22.3	0.0	22.3
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	4965.1	0.0	4965.1
	% Fixture	99.6	0.0	99.6
Total	Lumens	4987.4	0.0	4987.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.0
10°-20°	8.7	0.2
20°-30°	126.0	2.5
30°-40°	362.1	7.3
40°-50°	1031.4	20.7
50°-60°	1622.4	32.5
60°-70°	1383.6	27.7
70°-80°	441.3	8.8
80°-90°	11.2	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°	4987.4	100.0
0°-180°	4987.4	100.0



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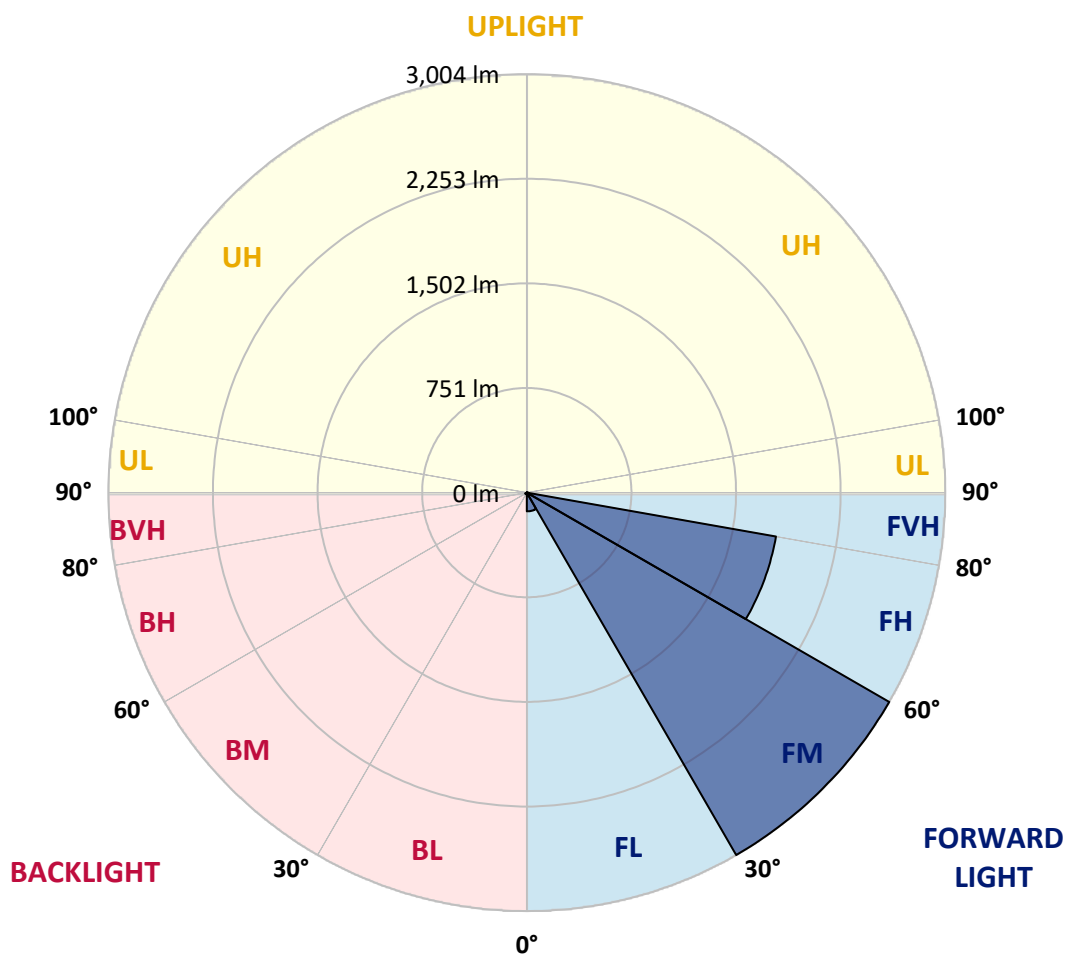
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	134.5	2.7			
FM	(30°-60°)	3004.0	60.2			
FH	(60°-80°)	1816.0	36.4			G2/5000
FVH	(80°-90°)	10.6	0.2			G1/100
BL	(0°-30°)	0.9	0.0	B0/110		
BM	(30°-60°)	11.9	0.2	B0/220		
BH	(60°-80°)	8.9	0.2	B0/110		G0/110
BVH	(80°-90°)	0.6	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
2.5°	18.0	19.0	20.0	19.0	17.0	13.0	13.0	10.0	7.0	4.0	3.0
5°	20.0	20.0	20.0	19.0	17.0	13.0	12.0	9.0	6.0	4.0	2.0
7.5°	22.0	22.0	21.0	19.0	16.0	13.0	12.0	9.0	6.0	3.0	0.0
10°	24.0	24.0	22.0	20.0	16.0	12.0	11.0	8.0	5.0	2.0	0.0
12.5°	26.9	26.0	23.0	20.0	16.0	11.0	11.0	8.0	4.0	1.0	0.0
15°	30.9	27.9	24.0	20.0	15.0	11.0	10.0	7.0	3.0	0.0	0.0
17.5°	33.9	30.9	25.0	19.0	14.0	10.0	9.0	6.0	3.0	0.0	0.0
20°	36.9	31.9	25.0	19.0	14.0	9.0	8.0	5.0	1.0	0.0	0.0
22.5°	41.9	33.9	25.0	19.0	13.0	8.0	7.0	4.0	0.0	0.0	0.0
25°	51.9	35.9	25.0	18.0	12.0	7.0	6.0	2.0	0.0	0.0	0.0
27.5°	63.9	38.9	25.0	17.0	11.0	6.0	5.0	1.0	0.0	0.0	0.0
30°	76.9	41.9	25.0	17.0	10.0	5.0	4.0	0.0	0.0	0.0	0.0
32.5°	90.8	45.9	25.0	16.0	9.0	4.0	3.0	0.0	0.0	0.0	0.0
35°	116.8	51.9	25.0	16.0	8.0	3.0	2.0	0.0	0.0	0.0	0.0
37.5°	128.8	59.9	25.0	15.0	8.0	2.0	1.0	0.0	0.0	0.0	0.0
40°	133.7	57.9	24.0	15.0	7.0	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	144.7	53.9	25.0	14.0	7.0	1.0	0.0	0.0	0.0	0.0	0.0
45°	176.7	53.9	26.9	14.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
47.5°	306.4	55.9	26.0	14.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
50°	504.1	65.9	25.0	15.0	7.0	1.0	0.0	0.0	0.0	0.0	0.0
52.5°	584.9	79.9	25.0	16.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	560.9	97.8	25.0	17.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	510.0	92.8	26.9	20.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	491.1	92.8	26.9	20.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	385.3	94.8	30.9	22.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	286.5	96.8	34.9	25.0	15.0	1.0	0.0	0.0	0.0	0.0	0.0
65°	212.6	100.8	36.9	28.9	14.0	2.0	0.0	0.0	0.0	0.0	0.0
67.5°	169.7	103.8	39.9	31.9	16.0	4.0	1.0	0.0	0.0	0.0	0.0
70°	145.7	99.8	42.9	32.9	15.0	6.0	3.0	0.0	0.0	0.0	0.0
72.5°	129.8	93.8	48.9	31.9	16.0	6.0	3.0	0.0	0.0	0.0	0.0
75°	116.8	85.8	55.9	30.9	16.0	6.0	4.0	0.0	0.0	0.0	0.0
77.5°	87.8	74.9	54.9	29.9	15.0	6.0	4.0	0.0	0.0	0.0	0.0
80°	43.9	49.9	47.9	26.9	12.0	5.0	4.0	1.0	0.0	0.0	0.0
82.5°	18.0	19.0	24.0	20.0	10.0	4.0	4.0	1.0	0.0	0.0	0.0
85°	2.0	4.0	7.0	8.0	7.0	4.0	4.0	1.0	0.0	0.0	0.0
87.5°	0.0	1.0	4.0	6.0	5.0	3.0	2.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
2.5°	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5°	1.0	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°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
2.5°	1.0	2.0	2.0	2.0	3.0	3.0	4.0	5.0	5.0	5.0	6.0
5°	0.0	0.0	1.0	1.0	2.0	3.0	4.0	6.0	7.0	7.0	8.0
7.5°	0.0	0.0	0.0	1.0	2.0	3.0	4.0	6.0	8.0	9.0	10.0
10°	0.0	0.0	0.0	0.0	1.0	2.0	4.0	7.0	10.0	12.0	14.0
12.5°	0.0	0.0	0.0	0.0	0.0	1.0	4.0	8.0	12.0	15.0	17.0
15°	0.0	0.0	0.0	0.0	0.0	1.0	4.0	8.0	15.0	18.0	22.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.0	9.0	17.0	22.0	29.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	9.0	19.0	26.9	44.9
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	9.0	21.0	34.9	82.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	9.0	24.0	51.9	137.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	10.0	28.9	72.9	201.6
30°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	10.0	35.9	98.8	281.5
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	10.0	41.9	124.8	383.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	49.9	165.7	481.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	61.9	182.7	563.9
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	58.9	198.6	658.8
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	53.9	221.6	807.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	53.9	293.4	1136.9
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	65.9	457.1	1737.7
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	84.8	701.7	2474.4
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	102.8	863.4	2901.6
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	123.8	864.4	2887.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	137.7	773.5	2606.1
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	136.7	748.6	2528.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	10.0	119.8	649.8	2206.9
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.0	16.0	104.8	466.1	1829.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	8.0	18.0	95.8	338.4	1373.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.0	21.0	91.8	239.6	955.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	12.0	24.0	84.8	171.7	628.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.0	29.9	79.9	134.7	379.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	12.0	37.9	69.9	109.8	203.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.0	40.9	57.9	79.9	123.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	11.0	36.9	41.9	34.9	41.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.0	22.0	9.0	9.0	14.0
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°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
2.5°	7.0	7.0	7.0	7.0	8.0	8.0	11.0	14.0	17.0	18.0
5°	9.0	10.0	11.0	11.0	11.0	12.0	14.0	16.0	19.0	20.0
7.5°	13.0	14.0	16.0	16.0	16.0	17.0	18.0	20.0	22.0	22.0
10°	17.0	20.0	21.0	22.0	23.0	23.0	23.0	24.0	25.0	24.0
12.5°	23.0	26.9	31.9	32.9	32.9	32.9	31.9	29.9	27.9	26.9
15°	31.9	43.9	59.9	65.9	62.9	55.9	48.9	37.9	32.9	30.9
17.5°	58.9	119.8	217.6	240.5	235.6	202.6	118.8	57.9	38.9	33.9
20°	158.7	387.3	638.8	699.7	731.6	605.9	350.3	134.7	47.9	36.9
22.5°	342.4	804.5	1246.7	1404.4	1414.3	1137.9	681.7	273.5	68.9	41.9
25°	551.0	1286.6	1889.5	2042.2	2045.2	1753.7	1090.0	443.2	104.8	51.9
27.5°	844.4	1803.6	2478.4	2605.1	2603.1	2307.7	1575.0	676.7	146.7	63.9
30°	1144.9	2206.9	2866.6	3024.3	3039.3	2686.0	1980.3	953.2	191.6	76.9
32.5°	1442.3	2505.3	3221.0	3430.6	3417.6	3020.3	2262.8	1179.8	268.5	90.8
35°	1676.9	2759.8	3613.2	3870.7	3880.7	3387.6	2513.3	1399.4	334.4	116.8
37.5°	1877.5	3088.2	4135.2	4432.7	4445.7	3844.8	2775.8	1615.0	391.3	128.8
40°	2125.0	3627.2	4999.6	5504.7	5506.7	4697.2	3247.9	1856.5	468.1	133.7
42.5°	2681.0	4782.0	6688.5	7414.1	7477.0	6465.9	4320.9	2380.5	588.9	144.7
45°	3792.9	6304.2	8842.4	9677.8	9757.7	8666.7	6160.4	3590.3	854.4	176.7
47.5°	5115.4	7627.7	10094.1	10898.6	10951.5	9707.8	7392.1	4989.6	1454.3	306.4
50°	5928.9	8117.8	10554.2	11321.8	11330.7	10050.1	7778.4	5716.3	2072.1	504.1
52.5°	6181.4	8180.7	10572.2	11500.4	11526.4	10010.2	7831.3	5863.0	2329.6	584.9
55°	6078.6	8143.7	10761.8	11841.8	11869.7	10172.9	7795.4	5702.3	2208.9	560.9
57.5°	5844.0	8287.5	11073.2	12247.0	12247.0	10473.4	7928.1	5432.8	1913.4	510.0
58°	5809.1	8323.4	11090.2	12269.0	12260.0	10492.3	7983.0	5393.9	1848.5	491.1
60°	5761.2	8434.2	10964.4	11944.6	11918.6	10358.6	8082.8	5358.9	1534.1	385.3
62.5°	5691.3	8184.6	10048.1	10990.4	10923.5	9421.3	7796.4	5154.3	1144.9	286.5
65°	5333.0	7263.4	8376.3	9029.1	9008.1	7750.5	6710.4	4617.3	824.5	212.6
67.5°	4495.6	5686.3	6766.3	7552.8	7557.8	6327.1	5248.2	3690.1	560.9	169.7
70°	3162.1	4194.1	5752.2	6627.6	6667.5	5307.0	3887.7	2459.4	370.3	145.7
72.5°	1888.5	3168.1	4783.0	5447.8	5426.8	4403.7	2884.6	1466.2	225.6	129.8
75°	915.3	1893.4	2417.5	2803.7	2787.8	2202.9	1537.1	718.7	164.7	116.8
77.5°	248.5	581.9	936.2	1217.7	1250.7	882.3	504.1	192.6	102.8	87.8
80°	83.8	179.7	305.4	415.2	426.2	381.3	189.6	67.9	44.9	43.9
82.5°	31.9	43.9	55.9	49.9	49.9	51.9	40.9	28.9	21.0	18.0
85°	0.0	0.0	1.0	2.0	2.0	3.0	3.0	3.0	2.0	2.0
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

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: SP1-2407-184-4

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

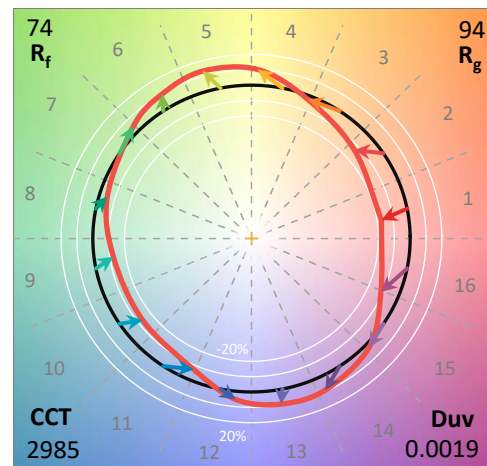
Test Information

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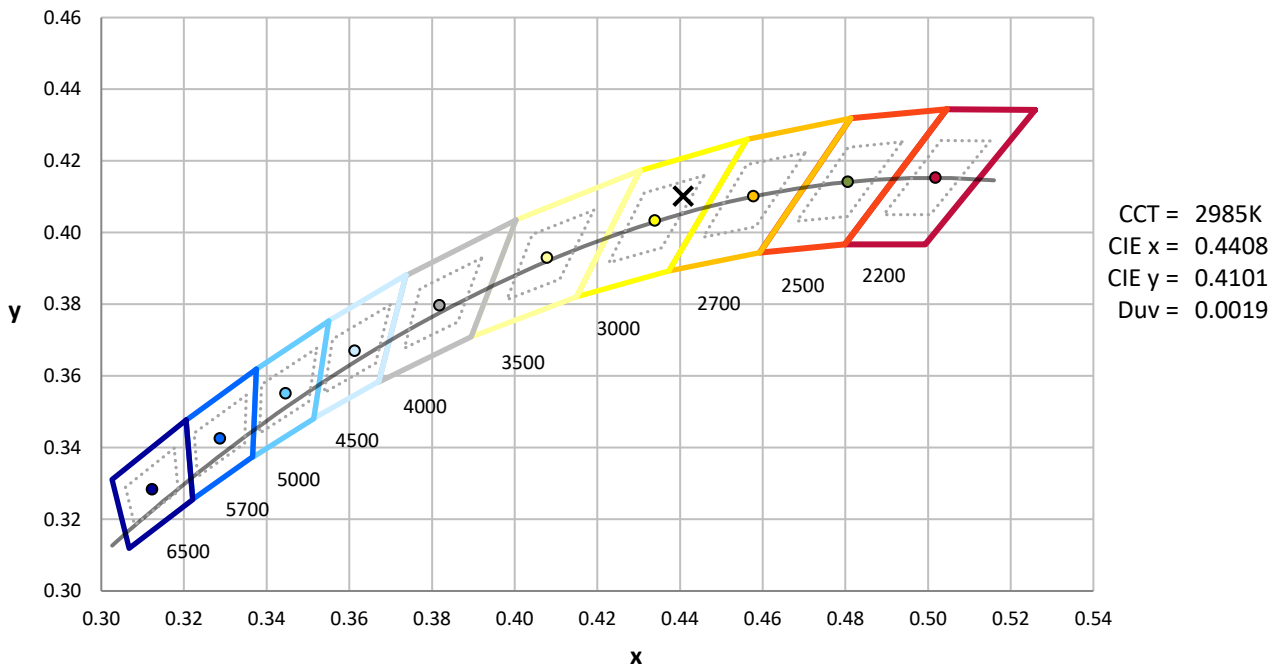
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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Photopic Flux vs. Wavelength

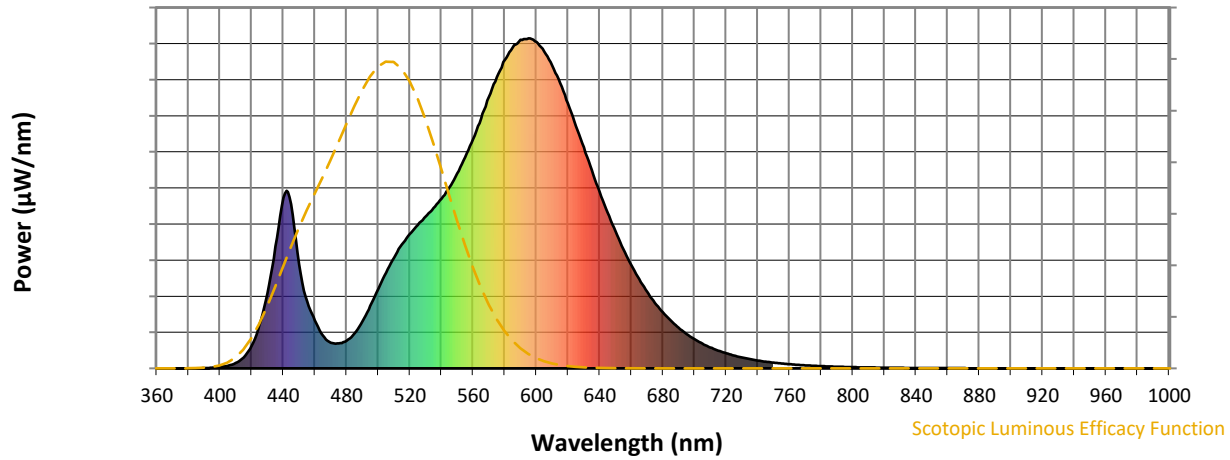


Photopic Lumens: NR

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			

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Scotopic Flux vs. Wavelength

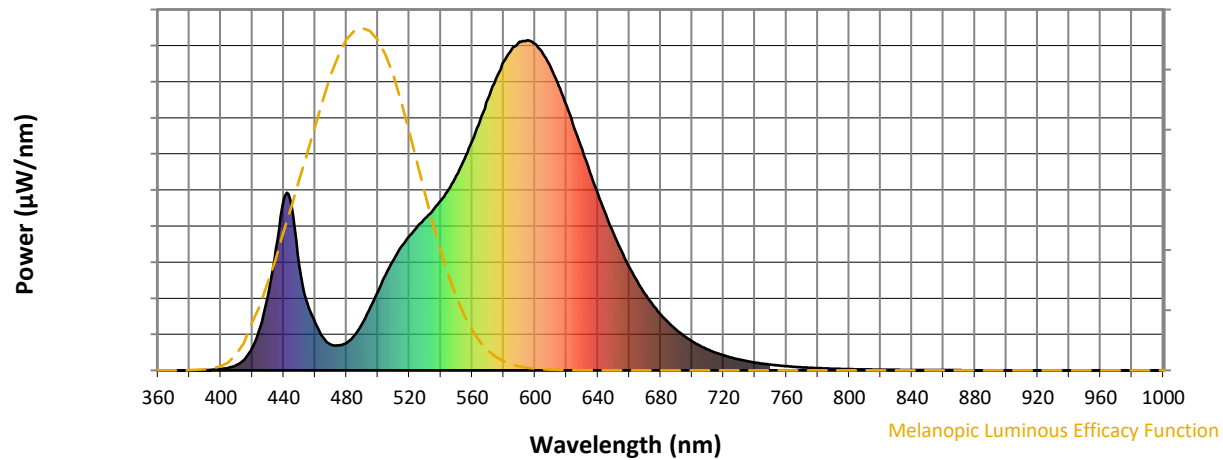


Scotopic Lumens: NR

S/P: 1.19

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	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

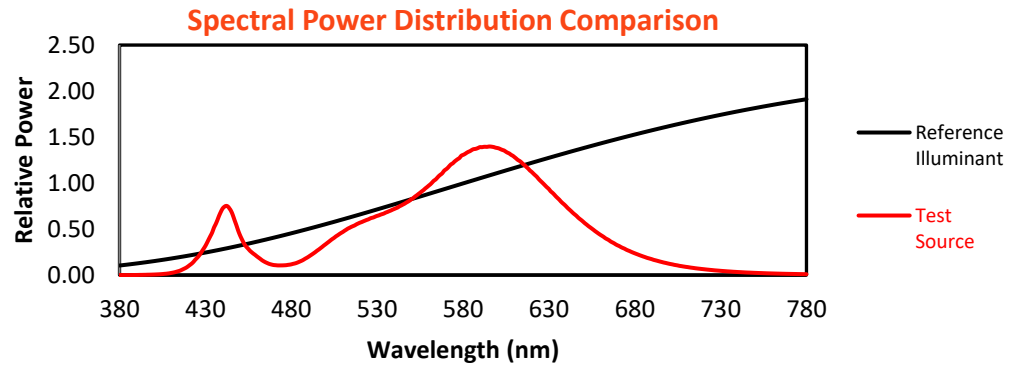
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	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

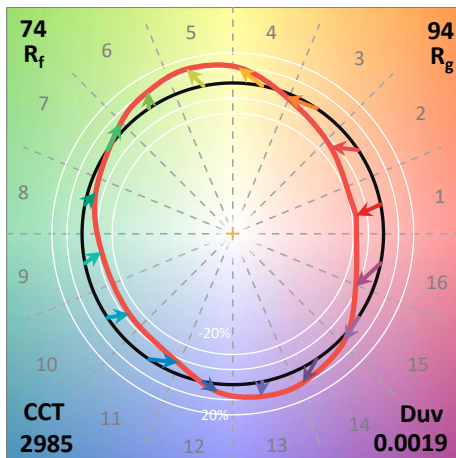
TM-30-18

Summary

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

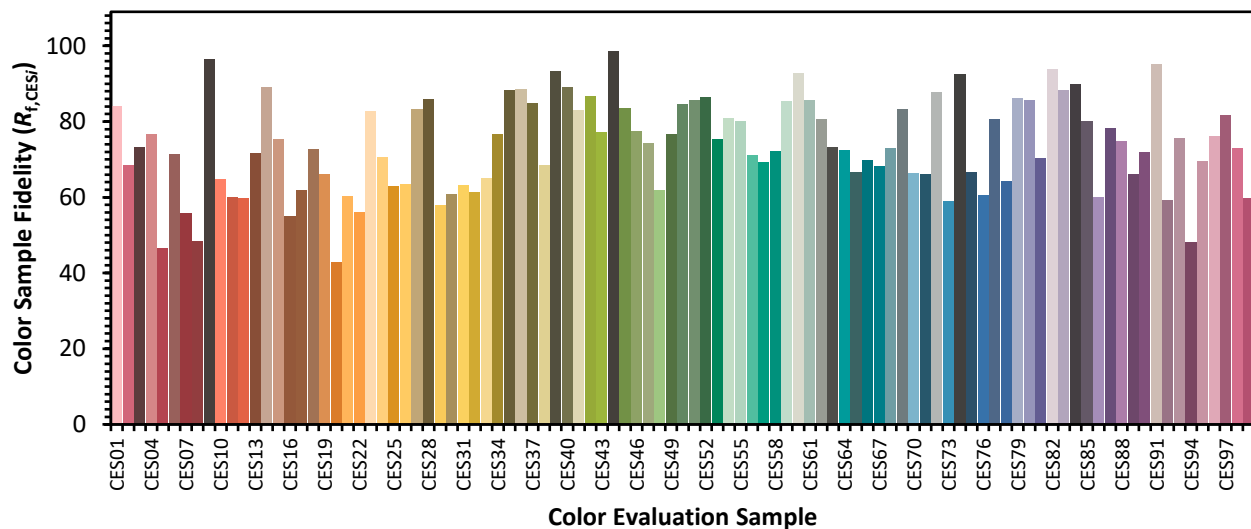


Color Vector Graphics



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

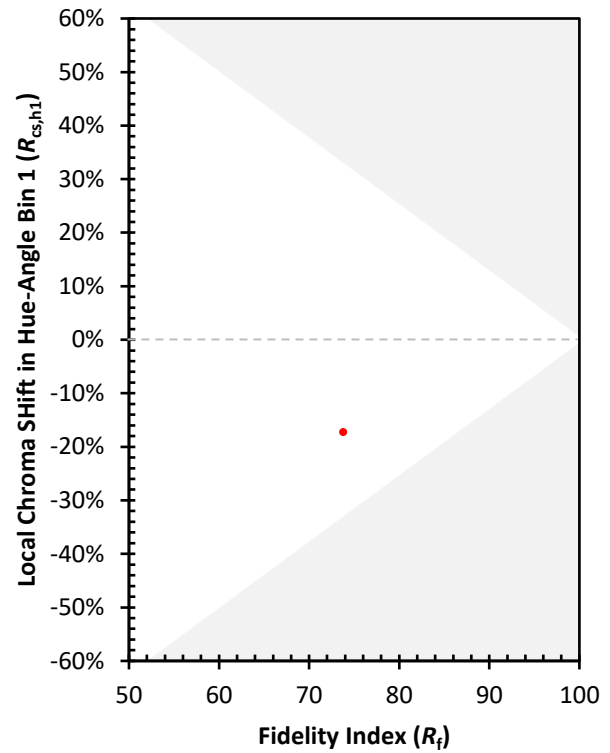
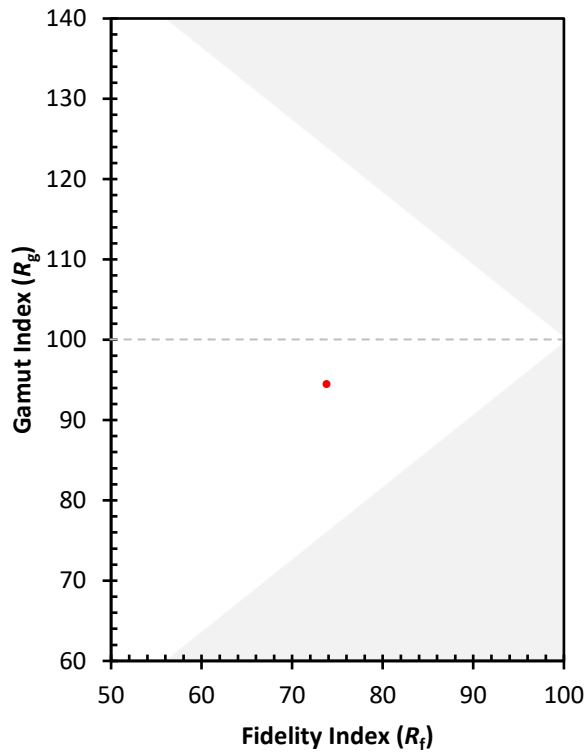
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 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)