

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: P991247

Luminaire Tested: **GPC-SA2A-730-U-RBC**

Issue Date: 07/03/2025

Test Information

Test Method: LM-79-08
Report Number: P991247
Test Lab: INNOVATION CENTER(G1)
Issue Date: 07/03/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-SA2A-730-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 615mA 2xLight Square PACKAGE 70CRI
3000K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5631.7 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 55.6
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

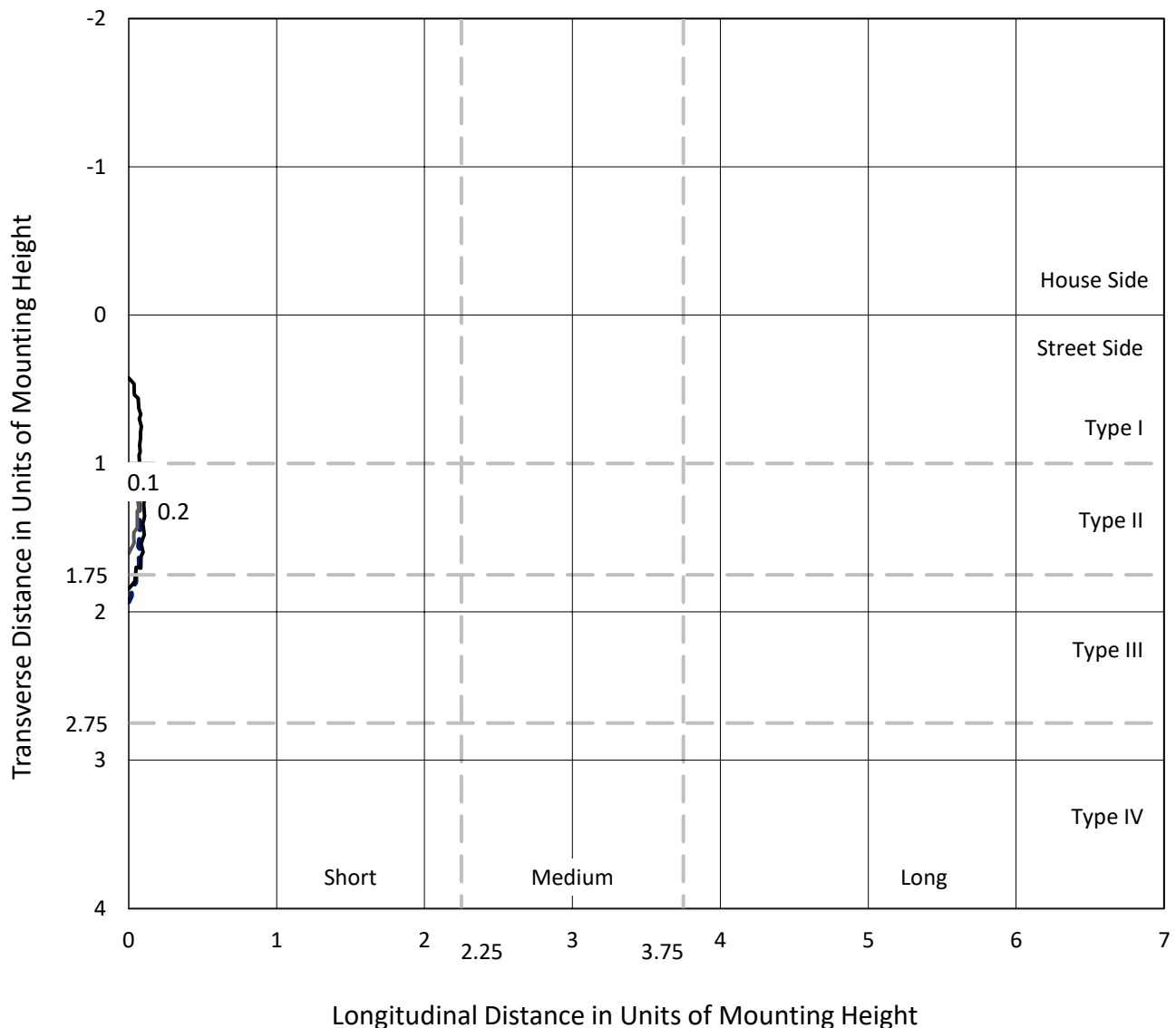


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Iso-Footcandle Lines of Horizontal Illumination

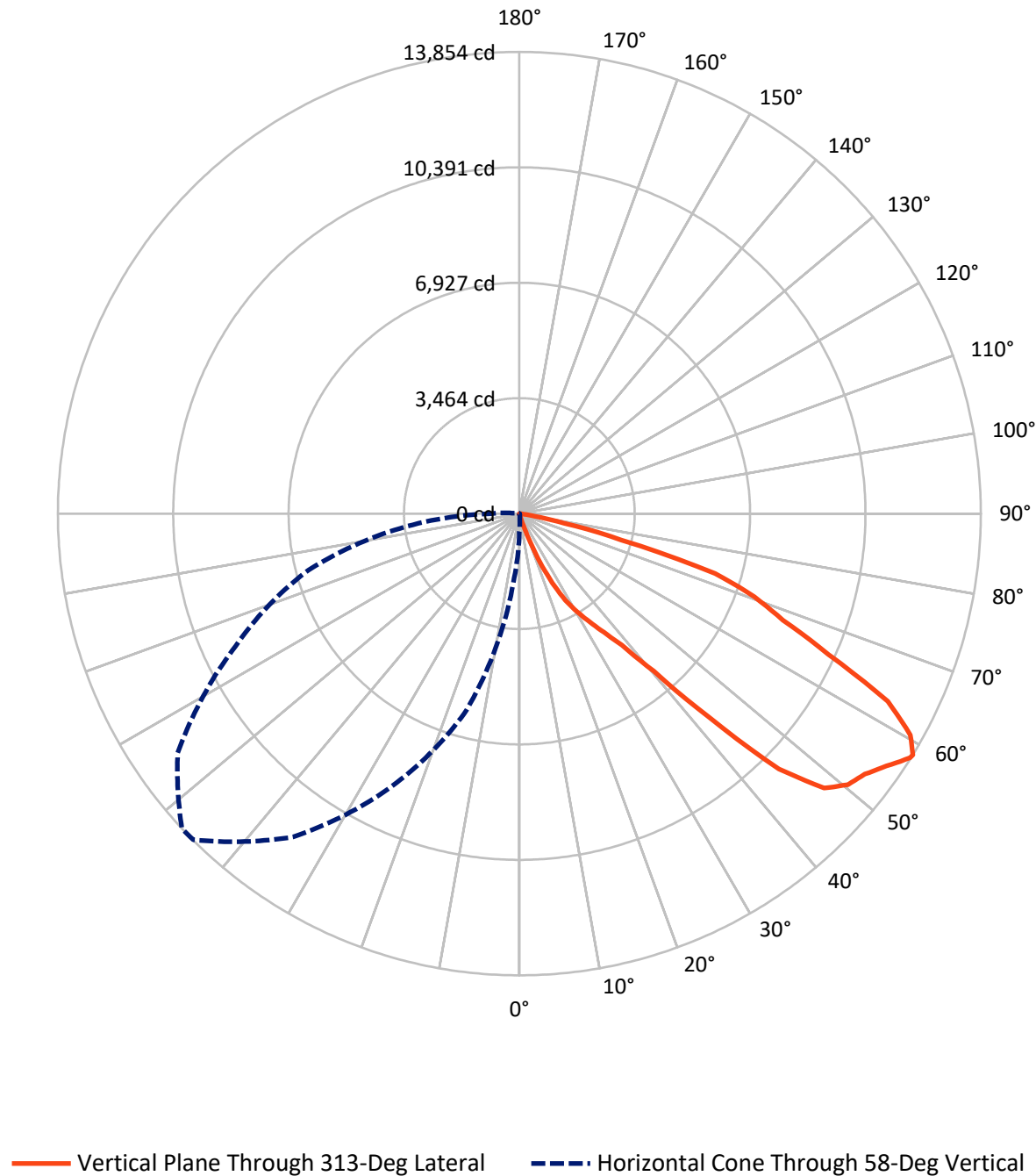
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 0.4 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	25.2	0.0	25.2
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	5606.5	0.0	5606.5
	% Fixture	99.6	0.0	99.6
Total	Lumens	5631.7	0.0	5631.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.0
10°-20°	9.8	0.2
20°-30°	142.2	2.5
30°-40°	408.9	7.3
40°-50°	1164.7	20.7
50°-60°	1832.0	32.5
60°-70°	1562.3	27.7
70°-80°	498.3	8.8
80°-90°	12.7	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°	5631.7	100.0
0°-180°	5631.7	100.0



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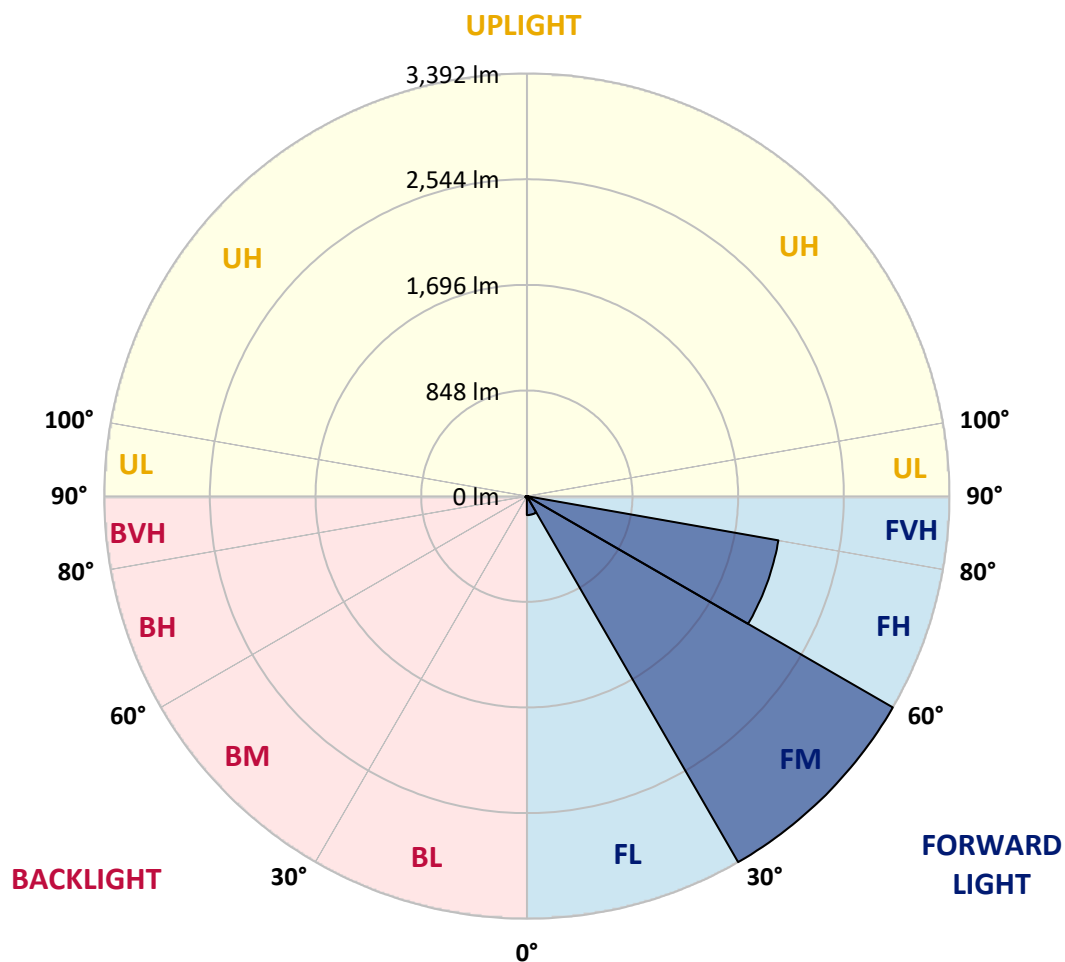
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	151.8	2.7			
FM	(30°-60°)	3392.1	60.2			
FH	(60°-80°)	2050.6	36.4			G2/5000
FVH	(80°-90°)	12.0	0.2			G1/100
BL	(0°-30°)	1.0	0.0	B0/110		
BM	(30°-60°)	13.5	0.2	B0/220		
BH	(60°-80°)	10.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
2.5°	20.3	21.4	22.5	21.4	19.2	14.7	14.7	11.3	7.9	4.5	3.4
5°	22.5	22.5	22.5	21.4	19.2	14.7	13.5	10.1	6.8	4.5	2.3
7.5°	24.8	24.8	23.7	21.4	18.0	14.7	13.5	10.1	6.8	3.4	0.0
10°	27.0	27.0	24.8	22.5	18.0	13.5	12.4	9.0	5.6	2.3	0.0
12.5°	30.4	29.3	25.9	22.5	18.0	12.4	12.4	9.0	4.5	1.1	0.0
15°	34.9	31.6	27.0	22.5	16.9	12.4	11.3	7.9	3.4	0.0	0.0
17.5°	38.3	34.9	28.2	21.4	15.8	11.3	10.1	6.8	3.4	0.0	0.0
20°	41.7	36.1	28.2	21.4	15.8	10.1	9.0	5.6	1.1	0.0	0.0
22.5°	47.3	38.3	28.2	21.4	14.7	9.0	7.9	4.5	0.0	0.0	0.0
25°	58.6	40.6	28.2	20.3	13.5	7.9	6.8	2.3	0.0	0.0	0.0
27.5°	72.1	44.0	28.2	19.2	12.4	6.8	5.6	1.1	0.0	0.0	0.0
30°	86.8	47.3	28.2	19.2	11.3	5.6	4.5	0.0	0.0	0.0	0.0
32.5°	102.6	51.8	28.2	18.0	10.1	4.5	3.4	0.0	0.0	0.0	0.0
35°	131.9	58.6	28.2	18.0	9.0	3.4	2.3	0.0	0.0	0.0	0.0
37.5°	145.4	67.6	28.2	16.9	9.0	2.3	1.1	0.0	0.0	0.0	0.0
40°	151.0	65.4	27.0	16.9	7.9	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	163.4	60.9	28.2	15.8	7.9	1.1	0.0	0.0	0.0	0.0	0.0
45°	199.5	60.9	30.4	15.8	6.8	2.3	0.0	0.0	0.0	0.0	0.0
47.5°	346.0	63.1	29.3	15.8	6.8	2.3	0.0	0.0	0.0	0.0	0.0
50°	569.2	74.4	28.2	16.9	7.9	1.1	0.0	0.0	0.0	0.0	0.0
52.5°	660.5	90.2	28.2	18.0	10.1	0.0	0.0	0.0	0.0	0.0	0.0
55°	633.4	110.5	28.2	19.2	12.4	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	575.9	104.8	30.4	22.5	15.8	0.0	0.0	0.0	0.0	0.0	0.0
58°	554.5	104.8	30.4	22.5	15.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	435.1	107.1	34.9	24.8	16.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	323.5	109.3	39.4	28.2	16.9	1.1	0.0	0.0	0.0	0.0	0.0
65°	240.1	113.8	41.7	32.7	15.8	2.3	0.0	0.0	0.0	0.0	0.0
67.5°	191.6	117.2	45.1	36.1	18.0	4.5	1.1	0.0	0.0	0.0	0.0
70°	164.6	112.7	48.5	37.2	16.9	6.8	3.4	0.0	0.0	0.0	0.0
72.5°	146.5	105.9	55.2	36.1	18.0	6.8	3.4	0.0	0.0	0.0	0.0
75°	131.9	96.9	63.1	34.9	18.0	6.8	4.5	0.0	0.0	0.0	0.0
77.5°	99.2	84.5	62.0	33.8	16.9	6.8	4.5	0.0	0.0	0.0	0.0
80°	49.6	56.4	54.1	30.4	13.5	5.6	4.5	1.1	0.0	0.0	0.0
82.5°	20.3	21.4	27.0	22.5	11.3	4.5	4.5	1.1	0.0	0.0	0.0
85°	2.3	4.5	7.9	9.0	7.9	4.5	4.5	1.1	0.0	0.0	0.0
87.5°	0.0	1.1	4.5	6.8	5.6	3.4	2.3	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°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
2.5°	2.3	2.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
5°	1.1	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°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
2.5°	1.1	2.3	2.3	2.3	3.4	3.4	4.5	5.6	5.6	5.6	6.8
5°	0.0	0.0	1.1	1.1	2.3	3.4	4.5	6.8	7.9	7.9	9.0
7.5°	0.0	0.0	0.0	1.1	2.3	3.4	4.5	6.8	9.0	10.1	11.3
10°	0.0	0.0	0.0	0.0	1.1	2.3	4.5	7.9	11.3	13.5	15.8
12.5°	0.0	0.0	0.0	0.0	0.0	1.1	4.5	9.0	13.5	16.9	19.2
15°	0.0	0.0	0.0	0.0	0.0	1.1	4.5	9.0	16.9	20.3	24.8
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.5	10.1	19.2	24.8	33.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	10.1	21.4	30.4	50.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	10.1	23.7	39.4	93.5
25°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	10.1	27.0	58.6	155.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	11.3	32.7	82.3	227.7
30°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	11.3	40.6	111.6	317.8
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	11.3	47.3	140.9	432.8
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	56.4	187.1	543.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	69.9	206.3	636.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	66.5	224.3	743.9
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	60.9	250.2	911.8
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	60.9	331.4	1283.7
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	74.4	516.2	1962.2
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	95.8	792.3	2794.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	116.1	974.9	3276.4
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	139.8	976.0	3260.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	155.5	873.5	2942.8
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	154.4	845.3	2854.9
60°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	11.3	135.2	733.7	2492.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.5	18.0	118.3	526.3	2065.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	9.0	20.3	108.2	382.1	1550.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.3	23.7	103.7	270.5	1078.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	13.5	27.0	95.8	193.9	710.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	13.5	33.8	90.2	152.2	428.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	13.5	42.8	78.9	124.0	229.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	13.5	46.2	65.4	90.2	139.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	12.4	41.7	47.3	39.4	47.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.8	24.8	10.1	10.1	15.8
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°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
2.5°	7.9	7.9	7.9	7.9	9.0	9.0	12.4	15.8	19.2	20.3
5°	10.1	11.3	12.4	12.4	12.4	13.5	15.8	18.0	21.4	22.5
7.5°	14.7	15.8	18.0	18.0	18.0	19.2	20.3	22.5	24.8	24.8
10°	19.2	22.5	23.7	24.8	25.9	25.9	25.9	27.0	28.2	27.0
12.5°	25.9	30.4	36.1	37.2	37.2	37.2	36.1	33.8	31.6	30.4
15°	36.1	49.6	67.6	74.4	71.0	63.1	55.2	42.8	37.2	34.9
17.5°	66.5	135.2	245.7	271.6	266.0	228.8	134.1	65.4	44.0	38.3
20°	179.2	437.3	721.3	790.1	826.1	684.1	395.6	152.2	54.1	41.7
22.5°	386.6	908.4	1407.7	1585.8	1597.1	1284.9	769.8	308.8	77.8	47.3
25°	622.1	1452.8	2133.6	2306.0	2309.4	1980.3	1230.8	500.4	118.3	58.6
27.5°	953.5	2036.6	2798.5	2941.7	2939.4	2605.8	1778.5	764.2	165.7	72.1
30°	1292.8	2492.0	3237.0	3415.0	3431.9	3033.0	2236.1	1076.4	216.4	86.8
32.5°	1628.6	2829.0	3637.1	3873.8	3859.1	3410.5	2555.1	1332.2	303.2	102.6
35°	1893.5	3116.4	4080.0	4370.8	4382.1	3825.3	2838.0	1580.2	377.6	131.9
37.5°	2120.0	3487.2	4669.5	5005.3	5020.0	4341.5	3134.4	1823.6	441.8	145.4
40°	2399.5	4095.8	5645.5	6215.8	6218.1	5304.0	3667.5	2096.4	528.6	151.0
42.5°	3027.3	5399.8	7552.5	8371.9	8442.9	7301.2	4879.1	2688.1	665.0	163.4
45°	4282.9	7118.6	9984.8	10928.1	11018.3	9786.4	6956.3	4054.1	964.8	199.5
47.5°	5776.3	8613.1	11398.1	12306.6	12366.3	10961.9	8347.1	5634.3	1642.2	346.0
50°	6694.8	9166.5	11917.7	12784.4	12794.6	11348.5	8783.3	6454.8	2339.8	569.2
52.5°	6980.0	9237.5	11938.0	12986.2	13015.5	11303.5	8843.0	6620.4	2630.6	660.5
55°	6863.9	9195.8	12152.1	13371.6	13403.2	11487.2	8802.5	6439.0	2494.2	633.4
57.5°	6599.0	9358.1	12503.8	13829.2	13829.2	11826.4	8952.4	6134.7	2160.6	575.9
58°	6559.6	9398.7	12522.9	13854.0	13843.9	11847.8	9014.4	6090.7	2087.3	554.5
60°	6505.5	9523.8	12380.9	13487.7	13458.4	11696.8	9127.1	6051.3	1732.3	435.1
62.5°	6426.6	9242.0	11346.3	12410.2	12334.7	10638.5	8803.6	5820.2	1292.8	323.5
65°	6022.0	8201.7	9458.4	10195.5	10171.9	8751.8	7577.3	5213.9	931.0	240.1
67.5°	5076.4	6421.0	7640.5	8528.6	8534.2	7144.5	5926.2	4166.8	633.4	191.6
70°	3570.6	4736.0	6495.3	7483.8	7528.9	5992.7	4390.0	2777.1	418.1	164.6
72.5°	2132.4	3577.3	5401.0	6151.6	6127.9	4972.7	3257.3	1655.7	254.7	146.5
75°	1033.5	2138.1	2729.8	3166.0	3147.9	2487.5	1735.7	811.5	186.0	131.9
77.5°	280.6	657.1	1057.2	1375.0	1412.2	996.3	569.2	217.5	116.1	99.2
80°	94.7	202.9	344.9	468.9	481.3	430.5	214.1	76.6	50.7	49.6
82.5°	36.1	49.6	63.1	56.4	56.4	58.6	46.2	32.7	23.7	20.3
85°	0.0	0.0	1.1	2.3	2.3	3.4	3.4	3.4	2.3	2.3
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: SP1-2407-184-4

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

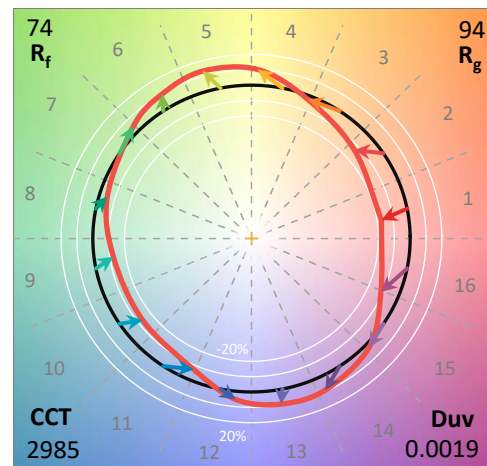
Test Information

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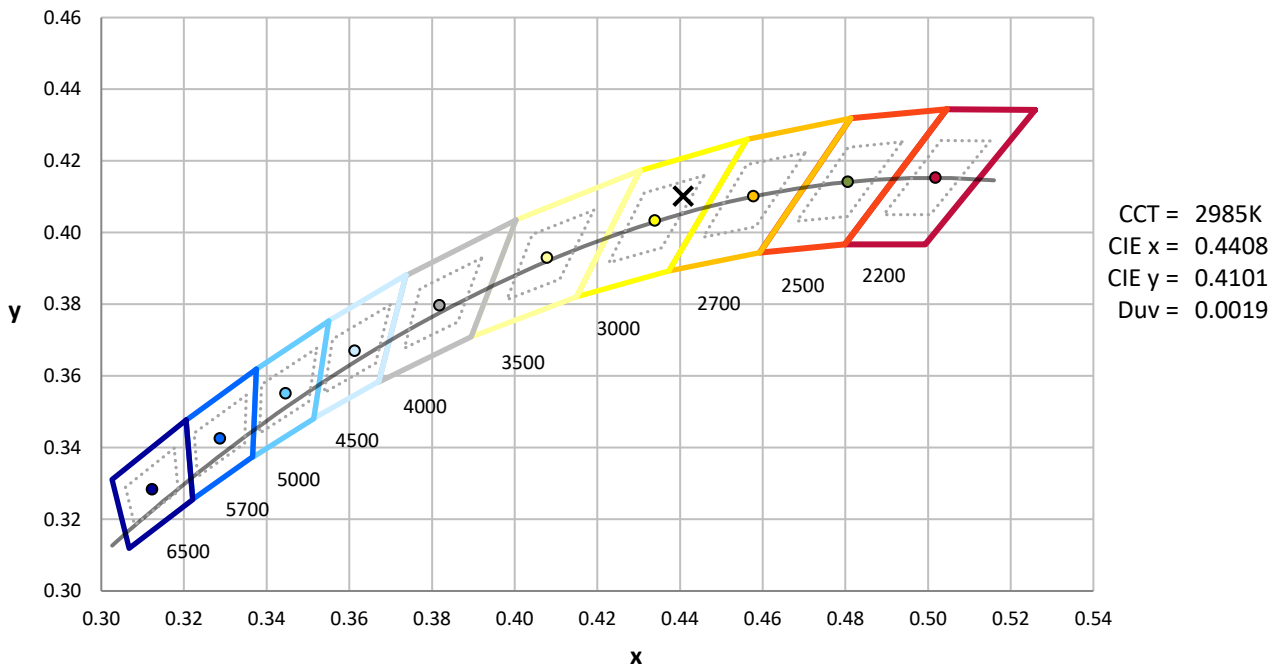
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

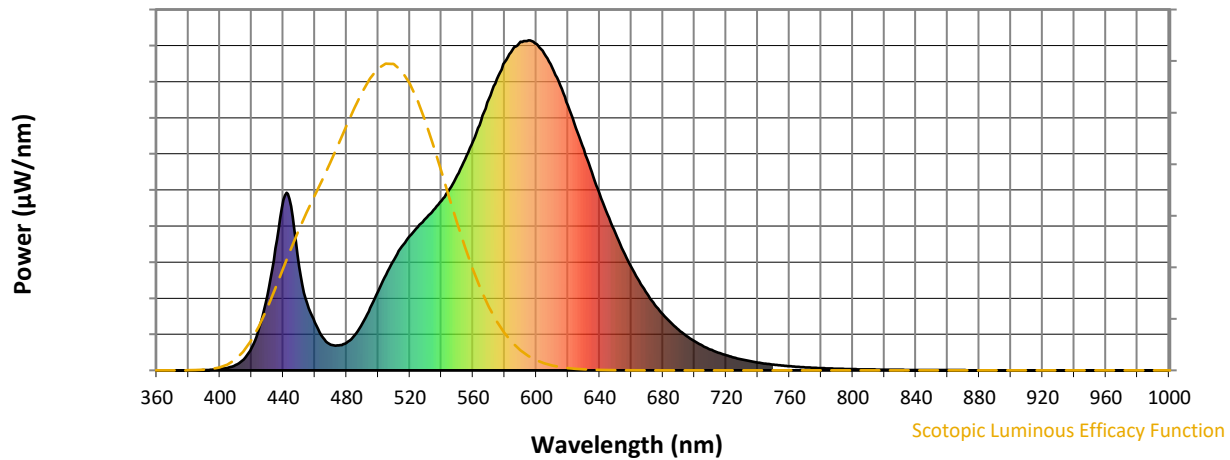


Photopic Lumens: NR

λ (nm)	Power W ^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	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



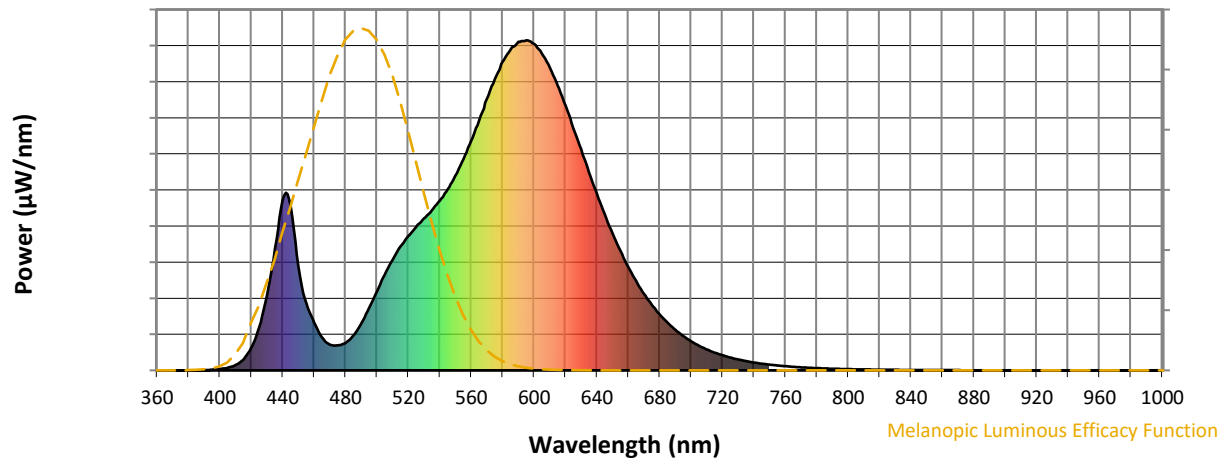
Scotopic Lumens: NR

S/P: 1.19

λ (nm)	Power 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

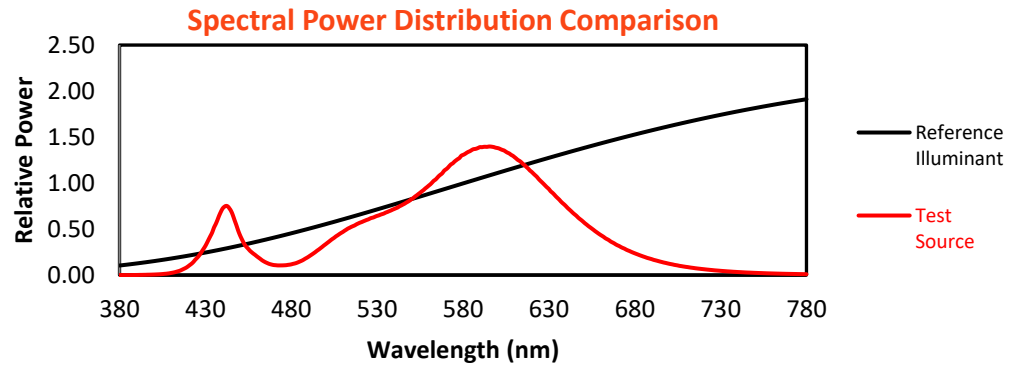
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	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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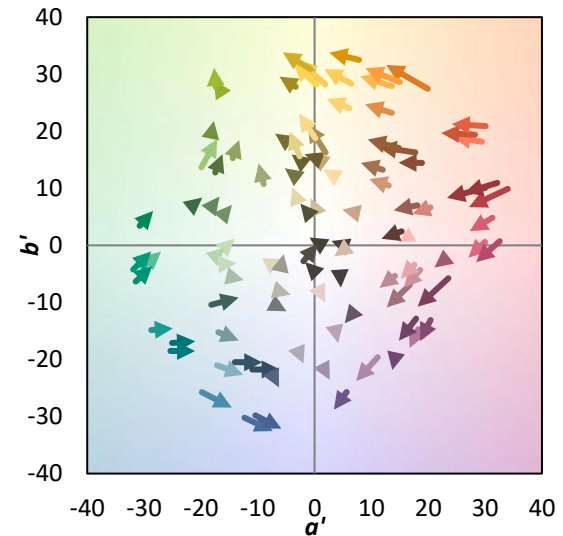
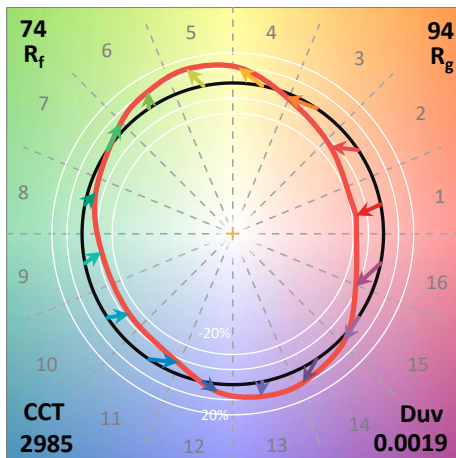
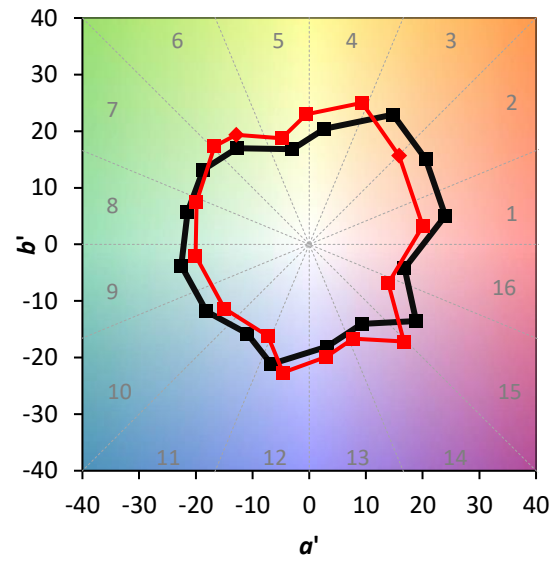
TM-30-18

Summary

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

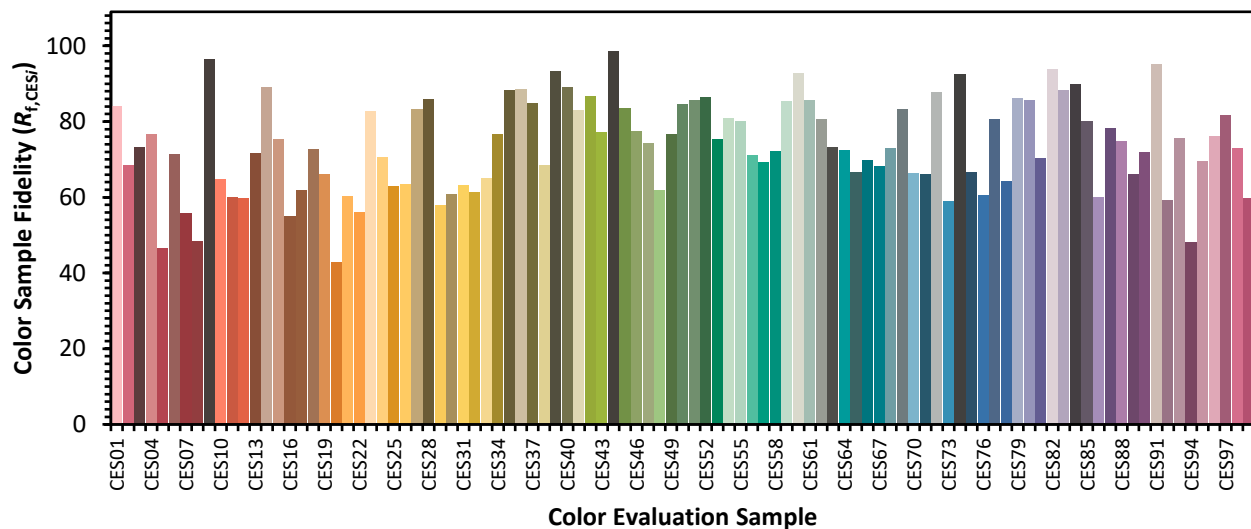


Color Vector Graphics



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

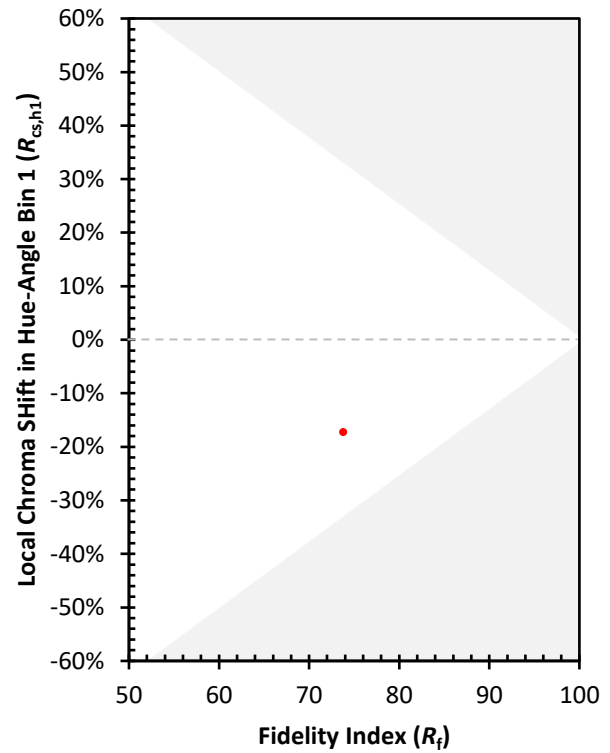
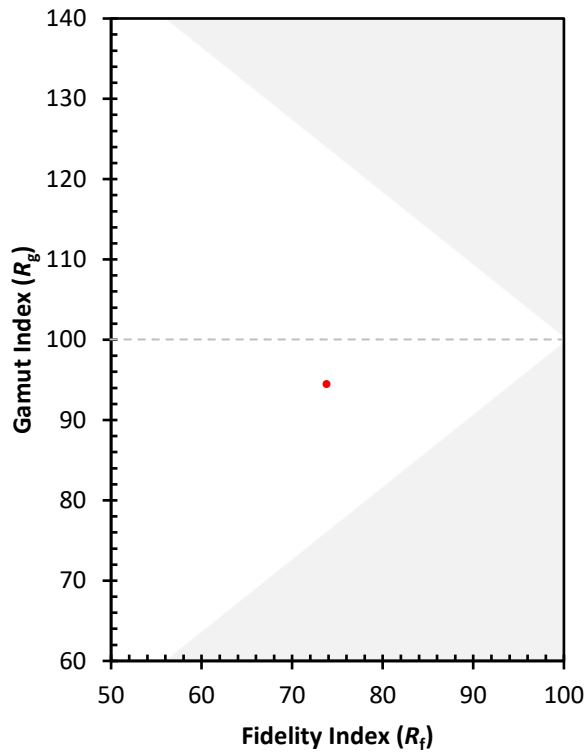
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82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