

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: P1057662

Luminaire Tested: **GAP-SA1C-730-U-RBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1057662
Test Lab: INNOVATION CENTER(G1)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-SA1C-730-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 1050mA 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: 4551.5 lumens
Efficiency: N/A
Efficacy: 92.1 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

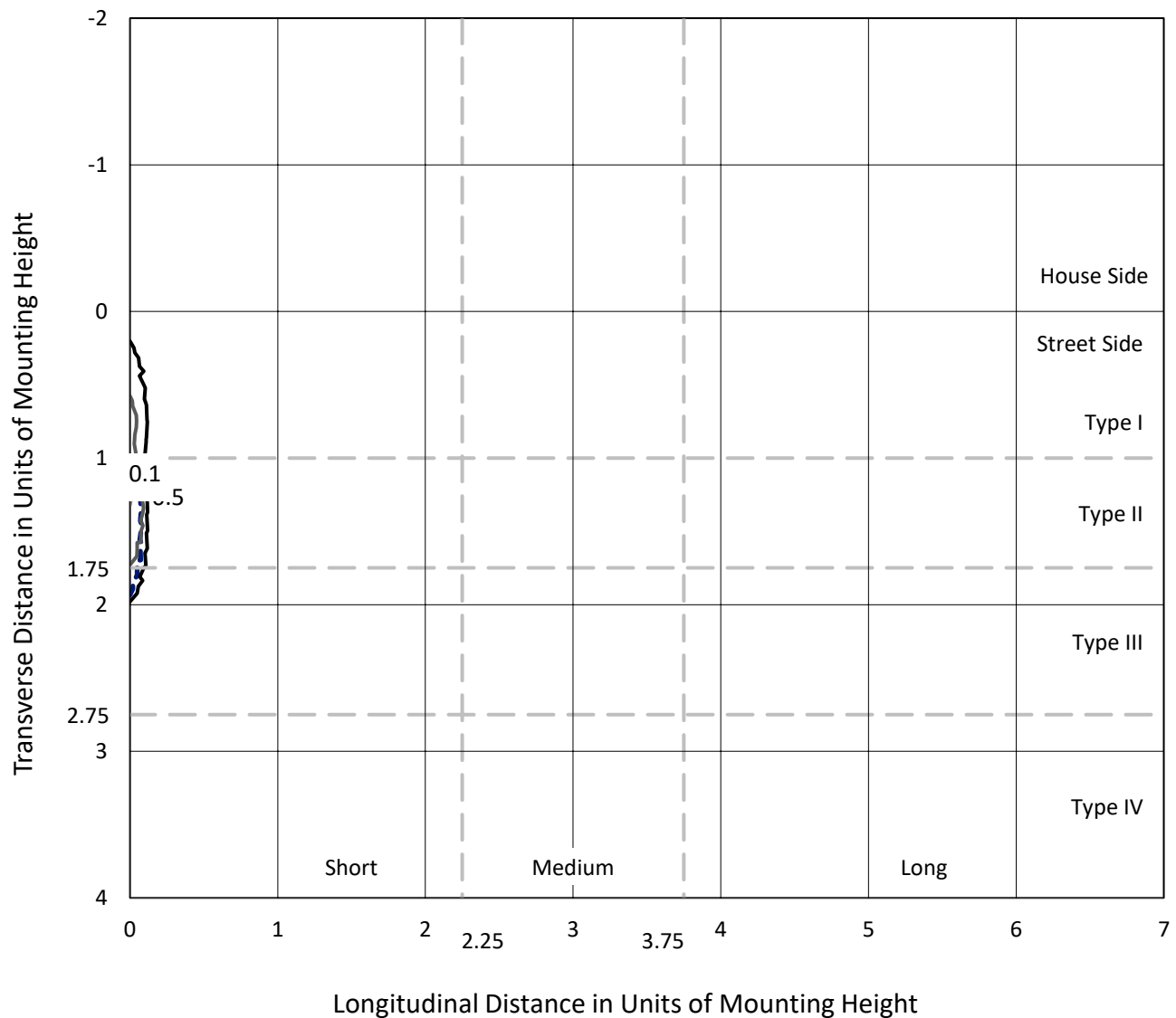


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

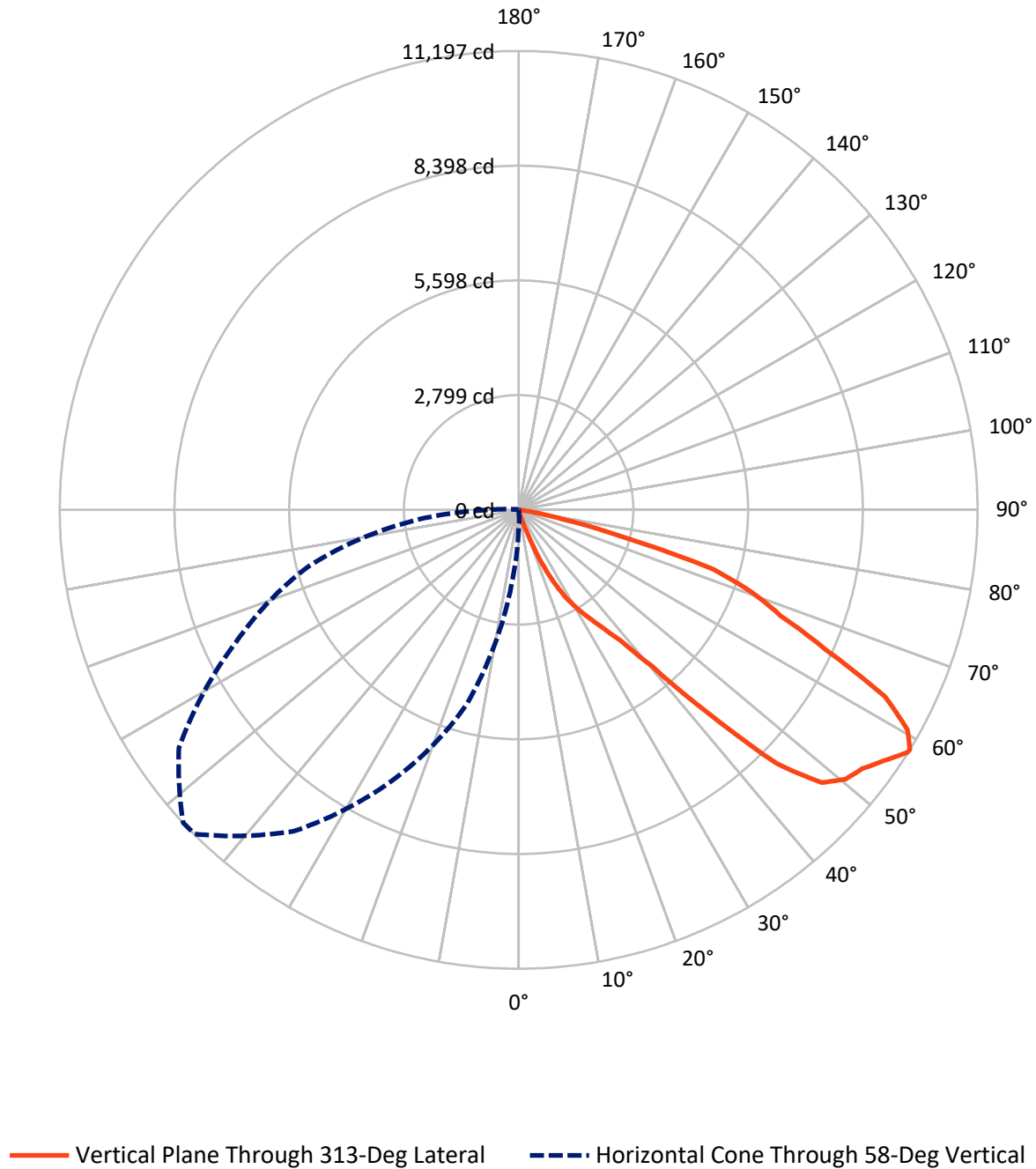


Based on 15 foot mounting height. Maximum calculated value = 0.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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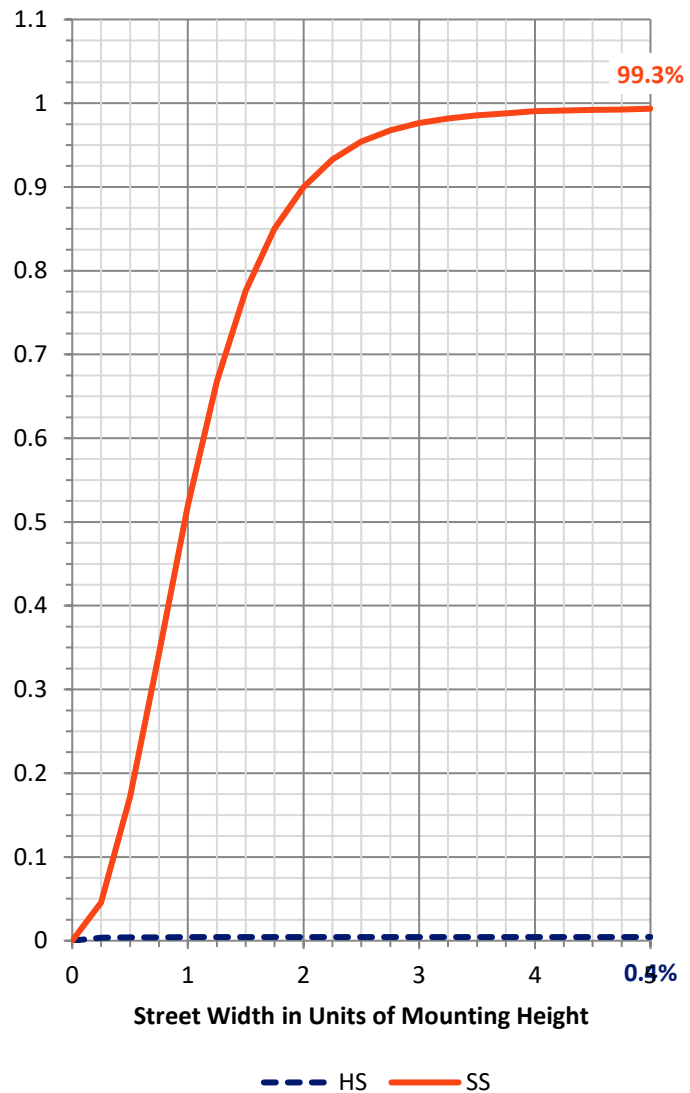
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20.3	0.0	20.3
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	4531.1	0.0	4531.1
	% Fixture	99.6	0.0	99.6
Total	Lumens	4551.5	0.0	4551.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.0
10°-20°	7.9	0.2
20°-30°	114.9	2.5
30°-40°	330.4	7.3
40°-50°	941.3	20.7
50°-60°	1480.6	32.5
60°-70°	1262.6	27.7
70°-80°	402.8	8.8
80°-90°	10.3	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°	4551.5	100.0
0°-180°	4551.5	100.0



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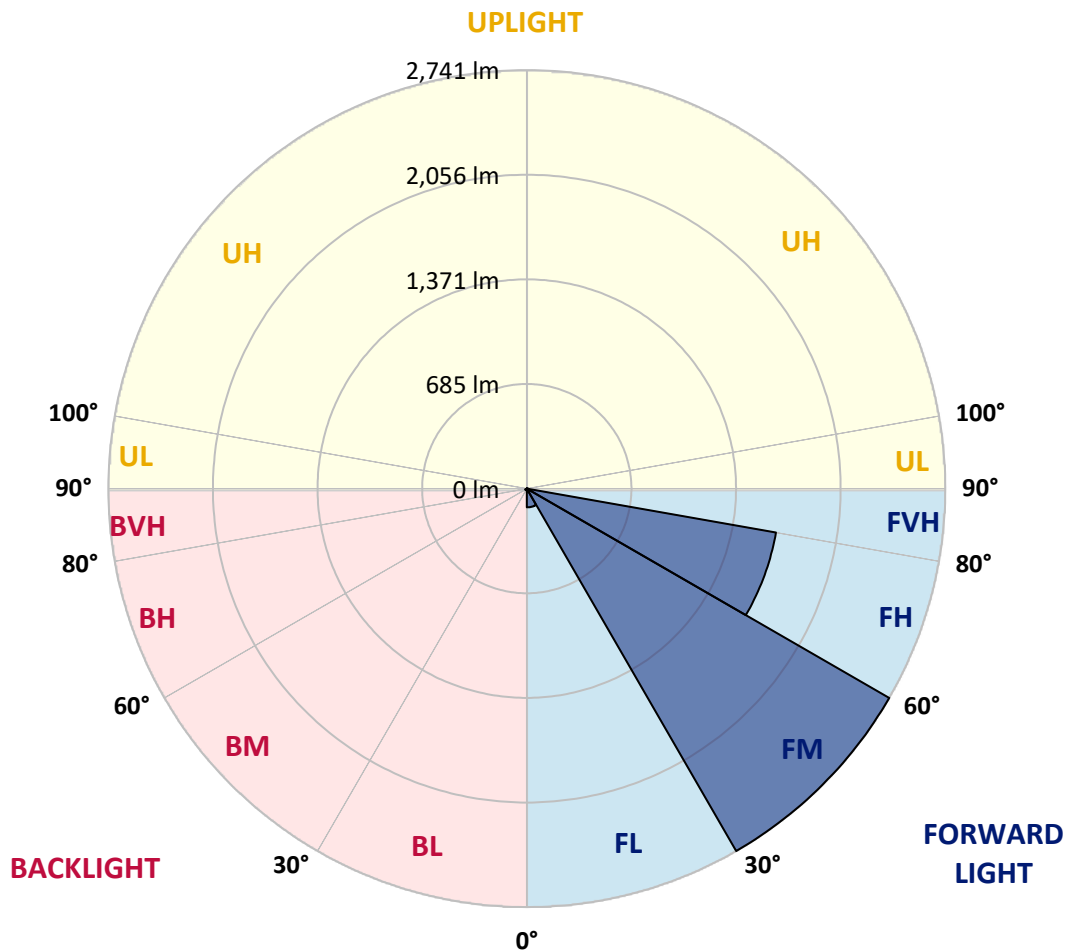
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	122.7	2.7			
FM	(30°-60°)	2741.4	60.2			
FH	(60°-80°)	1657.3	36.4			G1/1800
FVH	(80°-90°)	9.7	0.2			G0/10
BL	(0°-30°)	0.8	0.0	B0/110		
BM	(30°-60°)	10.9	0.2	B0/220		
BH	(60°-80°)	8.1	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	16.4	17.3	18.2	17.3	15.5	11.8	11.8	9.1	6.4	3.6	2.7
5°	18.2	18.2	18.2	17.3	15.5	11.8	10.9	8.2	5.5	3.6	1.8
7.5°	20.0	20.0	19.1	17.3	14.6	11.8	10.9	8.2	5.5	2.7	0.0
10°	21.9	21.9	20.0	18.2	14.6	10.9	10.0	7.3	4.6	1.8	0.0
12.5°	24.6	23.7	21.0	18.2	14.6	10.0	10.0	7.3	3.6	0.9	0.0
15°	28.2	25.5	21.9	18.2	13.7	10.0	9.1	6.4	2.7	0.0	0.0
17.5°	31.0	28.2	22.8	17.3	12.8	9.1	8.2	5.5	2.7	0.0	0.0
20°	33.7	29.1	22.8	17.3	12.8	8.2	7.3	4.6	0.9	0.0	0.0
22.5°	38.3	31.0	22.8	17.3	11.8	7.3	6.4	3.6	0.0	0.0	0.0
25°	47.4	32.8	22.8	16.4	10.9	6.4	5.5	1.8	0.0	0.0	0.0
27.5°	58.3	35.5	22.8	15.5	10.0	5.5	4.6	0.9	0.0	0.0	0.0
30°	70.1	38.3	22.8	15.5	9.1	4.6	3.6	0.0	0.0	0.0	0.0
32.5°	82.9	41.9	22.8	14.6	8.2	3.6	2.7	0.0	0.0	0.0	0.0
35°	106.6	47.4	22.8	14.6	7.3	2.7	1.8	0.0	0.0	0.0	0.0
37.5°	117.5	54.7	22.8	13.7	7.3	1.8	0.9	0.0	0.0	0.0	0.0
40°	122.1	52.8	21.9	13.7	6.4	0.9	0.0	0.0	0.0	0.0	0.0
42.5°	132.1	49.2	22.8	12.8	6.4	0.9	0.0	0.0	0.0	0.0	0.0
45°	161.2	49.2	24.6	12.8	5.5	1.8	0.0	0.0	0.0	0.0	0.0
47.5°	279.6	51.0	23.7	12.8	5.5	1.8	0.0	0.0	0.0	0.0	0.0
50°	460.0	60.1	22.8	13.7	6.4	0.9	0.0	0.0	0.0	0.0	0.0
52.5°	533.8	72.9	22.8	14.6	8.2	0.0	0.0	0.0	0.0	0.0	0.0
55°	511.9	89.3	22.8	15.5	10.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	465.5	84.7	24.6	18.2	12.8	0.0	0.0	0.0	0.0	0.0	0.0
58°	448.2	84.7	24.6	18.2	12.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	351.6	86.5	28.2	20.0	13.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	261.4	88.4	31.9	22.8	13.7	0.9	0.0	0.0	0.0	0.0	0.0
65°	194.0	92.0	33.7	26.4	12.8	1.8	0.0	0.0	0.0	0.0	0.0
67.5°	154.9	94.7	36.4	29.1	14.6	3.6	0.9	0.0	0.0	0.0	0.0
70°	133.0	91.1	39.2	30.1	13.7	5.5	2.7	0.0	0.0	0.0	0.0
72.5°	118.4	85.6	44.6	29.1	14.6	5.5	2.7	0.0	0.0	0.0	0.0
75°	106.6	78.3	51.0	28.2	14.6	5.5	3.6	0.0	0.0	0.0	0.0
77.5°	80.2	68.3	50.1	27.3	13.7	5.5	3.6	0.0	0.0	0.0	0.0
80°	40.1	45.5	43.7	24.6	10.9	4.6	3.6	0.9	0.0	0.0	0.0
82.5°	16.4	17.3	21.9	18.2	9.1	3.6	3.6	0.9	0.0	0.0	0.0
85°	1.8	3.6	6.4	7.3	6.4	3.6	3.6	0.9	0.0	0.0	0.0
87.5°	0.0	0.9	3.6	5.5	4.6	2.7	1.8	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°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
5°	0.9	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°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	0.9	1.8	1.8	1.8	2.7	2.7	3.6	4.6	4.6	4.6	5.5
5°	0.0	0.0	0.9	0.9	1.8	2.7	3.6	5.5	6.4	6.4	7.3
7.5°	0.0	0.0	0.0	0.9	1.8	2.7	3.6	5.5	7.3	8.2	9.1
10°	0.0	0.0	0.0	0.0	0.9	1.8	3.6	6.4	9.1	10.9	12.8
12.5°	0.0	0.0	0.0	0.0	0.0	0.9	3.6	7.3	10.9	13.7	15.5
15°	0.0	0.0	0.0	0.0	0.0	0.9	3.6	7.3	13.7	16.4	20.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	8.2	15.5	20.0	27.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	8.2	17.3	24.6	41.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	8.2	19.1	31.9	75.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	8.2	21.9	47.4	125.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	9.1	26.4	66.5	184.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	9.1	32.8	90.2	256.9
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	9.1	38.3	113.9	349.8
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	45.5	151.2	439.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	56.5	166.7	514.7
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	53.7	181.3	601.2
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	49.2	202.2	736.9
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	49.2	267.8	1037.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	60.1	417.2	1585.9
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	77.4	640.4	2258.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	93.8	787.9	2648.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	113.0	788.8	2635.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	125.7	705.9	2378.3
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	124.8	683.2	2307.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	9.1	109.3	593.0	2014.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	14.6	95.6	425.4	1669.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	7.3	16.4	87.4	308.8	1253.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.1	19.1	83.8	218.6	871.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	10.9	21.9	77.4	156.7	573.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.9	27.3	72.9	123.0	346.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	10.9	34.6	63.8	100.2	185.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.9	37.3	52.8	72.9	113.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	10.0	33.7	38.3	31.9	38.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.5	20.0	8.2	8.2	12.8
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°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	6.4	6.4	6.4	6.4	7.3	7.3	10.0	12.8	15.5	16.4
5°	8.2	9.1	10.0	10.0	10.0	10.9	12.8	14.6	17.3	18.2
7.5°	11.8	12.8	14.6	14.6	14.6	15.5	16.4	18.2	20.0	20.0
10°	15.5	18.2	19.1	20.0	21.0	21.0	21.0	21.9	22.8	21.9
12.5°	21.0	24.6	29.1	30.1	30.1	30.1	29.1	27.3	25.5	24.6
15°	29.1	40.1	54.7	60.1	57.4	51.0	44.6	34.6	30.1	28.2
17.5°	53.7	109.3	198.6	219.5	215.0	184.9	108.4	52.8	35.5	31.0
20°	144.8	353.4	583.0	638.5	667.7	552.9	319.7	123.0	43.7	33.7
22.5°	312.4	734.2	1137.7	1281.6	1290.7	1038.4	622.1	249.6	62.9	38.3
25°	502.8	1174.1	1724.3	1863.7	1866.4	1600.4	994.7	404.4	95.6	47.4
27.5°	770.6	1646.0	2261.7	2377.4	2375.6	2106.0	1437.4	617.6	133.9	58.3
30°	1044.8	2014.0	2616.1	2760.0	2773.7	2451.2	1807.2	869.9	174.9	70.1
32.5°	1316.2	2286.3	2939.4	3130.7	3118.9	2756.4	2065.0	1076.7	245.0	82.9
35°	1530.3	2518.6	3297.4	3532.4	3541.5	3091.6	2293.6	1277.1	305.1	106.6
37.5°	1713.4	2818.3	3773.8	4045.3	4057.1	3508.8	2533.2	1473.8	357.1	117.5
40°	1939.3	3310.2	4562.7	5023.6	5025.4	4286.7	2964.0	1694.3	427.2	122.1
42.5°	2446.7	4364.1	6103.9	6766.1	6823.5	5900.8	3943.3	2172.5	537.4	132.1
45°	3461.4	5753.2	8069.6	8832.0	8904.9	7909.3	5622.0	3276.5	779.7	161.2
47.5°	4668.3	6961.0	9211.9	9946.0	9994.3	8859.3	6746.1	4553.6	1327.2	279.6
50°	5410.7	7408.3	9631.8	10332.3	10340.5	9171.8	7098.6	5216.7	1891.0	460.0
52.5°	5641.2	7465.7	9648.2	10495.3	10519.0	9135.3	7146.9	5350.6	2126.0	533.8
55°	5547.3	7432.0	9821.2	10806.8	10832.3	9283.8	7114.1	5203.9	2015.8	511.9
57.5°	5333.3	7563.1	10105.4	11176.7	11176.7	9558.0	7235.2	4958.0	1746.2	465.5
58°	5301.4	7595.9	10120.9	11196.7	11188.5	9575.3	7285.3	4922.5	1687.0	448.2
60°	5257.7	7697.0	10006.2	10900.6	10877.0	9453.2	7376.4	4890.6	1400.0	351.6
62.5°	5193.9	7469.3	9170.0	10029.8	9968.8	8597.9	7115.0	4703.8	1044.8	261.4
65°	4866.9	6628.6	7644.2	8239.9	8220.8	7073.1	6123.9	4213.8	752.4	194.0
67.5°	4102.7	5189.4	6174.9	6892.7	6897.3	5774.1	4789.5	3367.6	511.9	154.9
70°	2885.7	3827.6	5249.5	6048.3	6084.8	4843.2	3547.9	2244.4	337.9	133.0
72.5°	1723.4	2891.2	4365.0	4971.7	4952.5	4018.9	2632.5	1338.1	205.9	118.4
75°	835.3	1728.0	2206.2	2558.7	2544.1	2010.3	1402.8	655.8	150.3	106.6
77.5°	226.8	531.1	854.4	1111.3	1141.3	805.2	460.0	175.8	93.8	80.2
80°	76.5	164.0	278.7	378.9	389.0	348.0	173.1	61.9	41.0	40.1
82.5°	29.1	40.1	51.0	45.5	45.5	47.4	37.3	26.4	19.1	16.4
85°	0.0	0.0	0.9	1.8	1.8	2.7	2.7	2.7	1.8	1.8
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

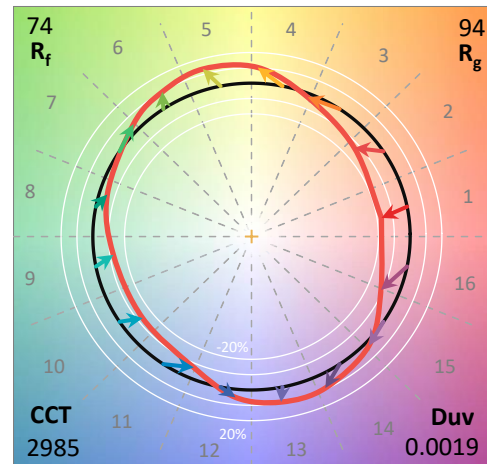
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

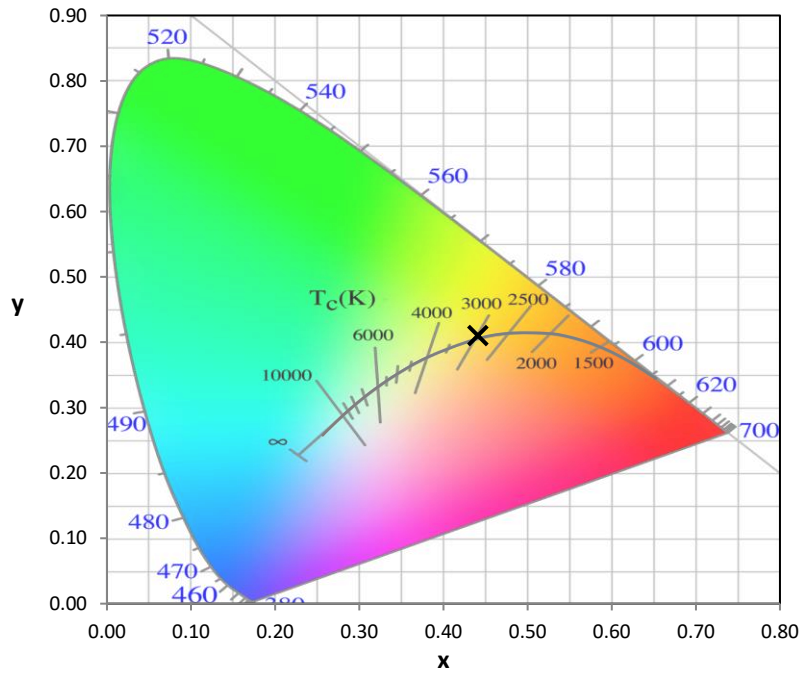
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

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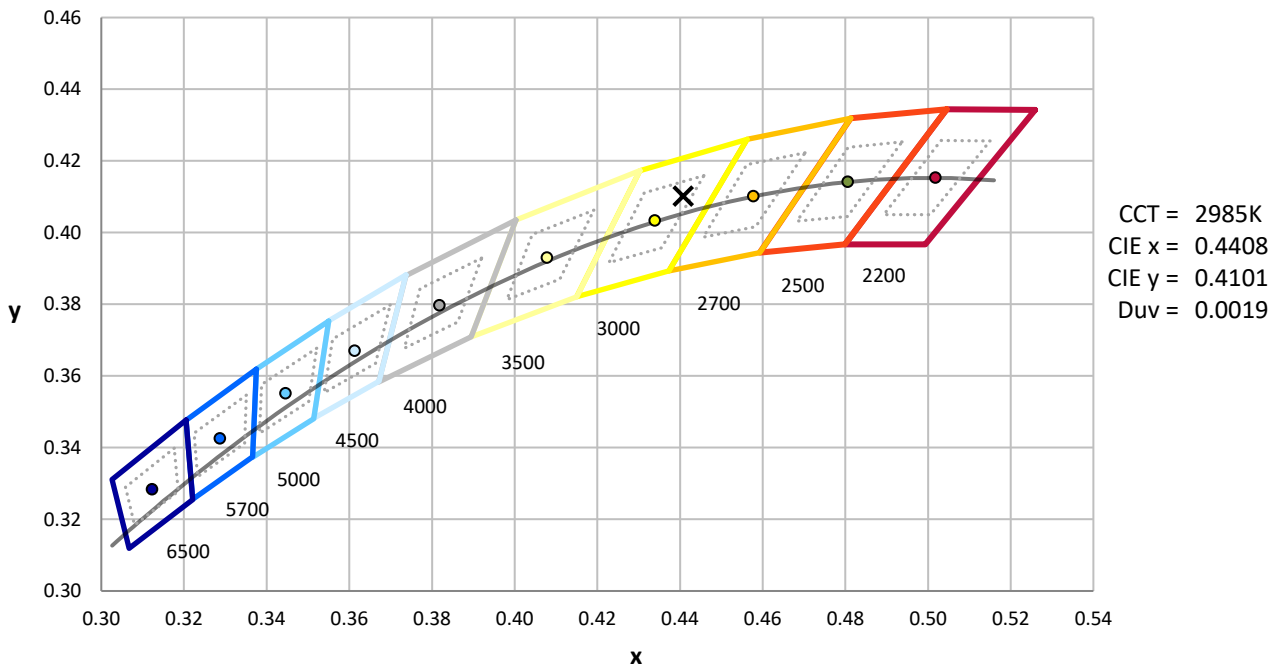
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

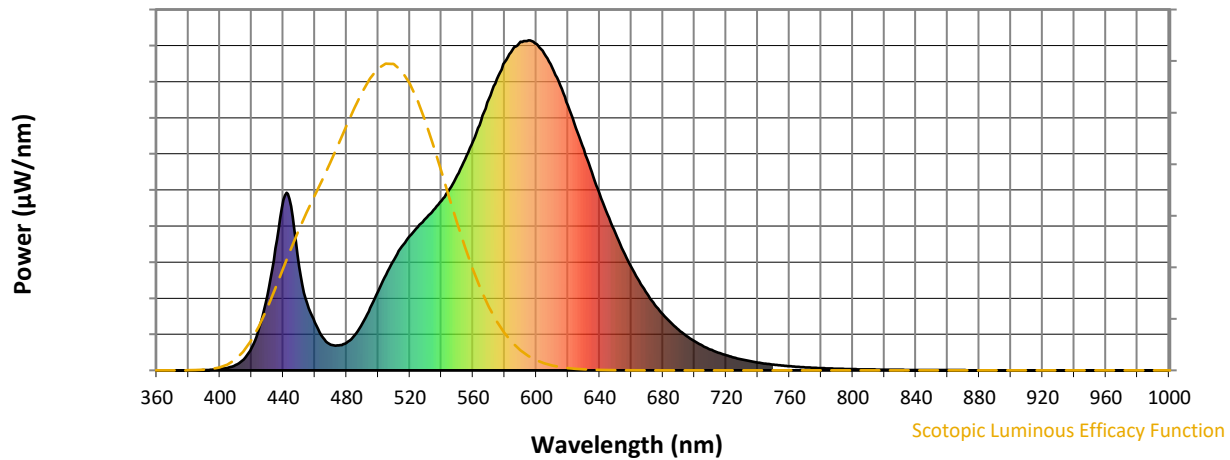


Photopic Lumens: NR

λ (nm)	Power W ^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			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



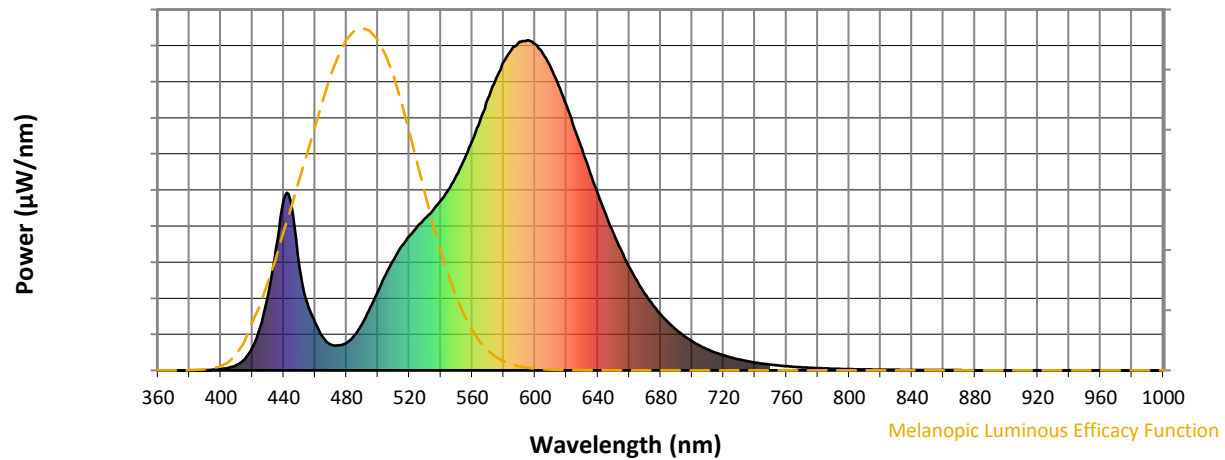
Scotopic Lumens: NR

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



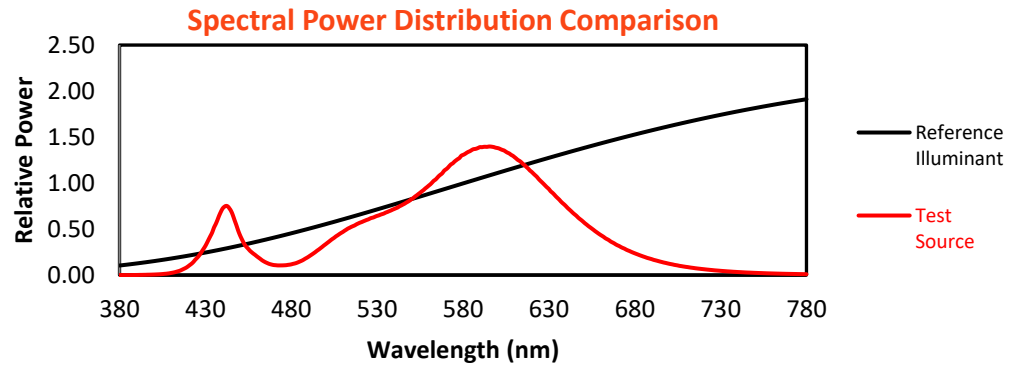
Melanopic Lumens: NR

M/P: 2.13

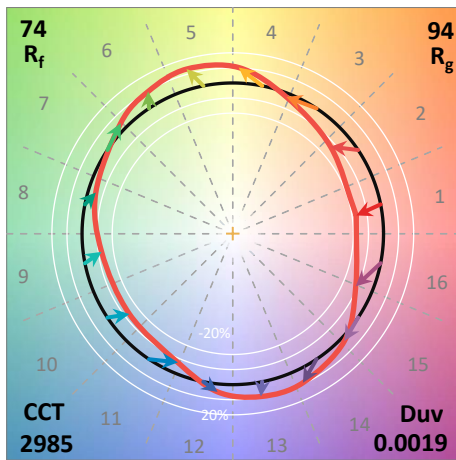
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803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

Summary

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

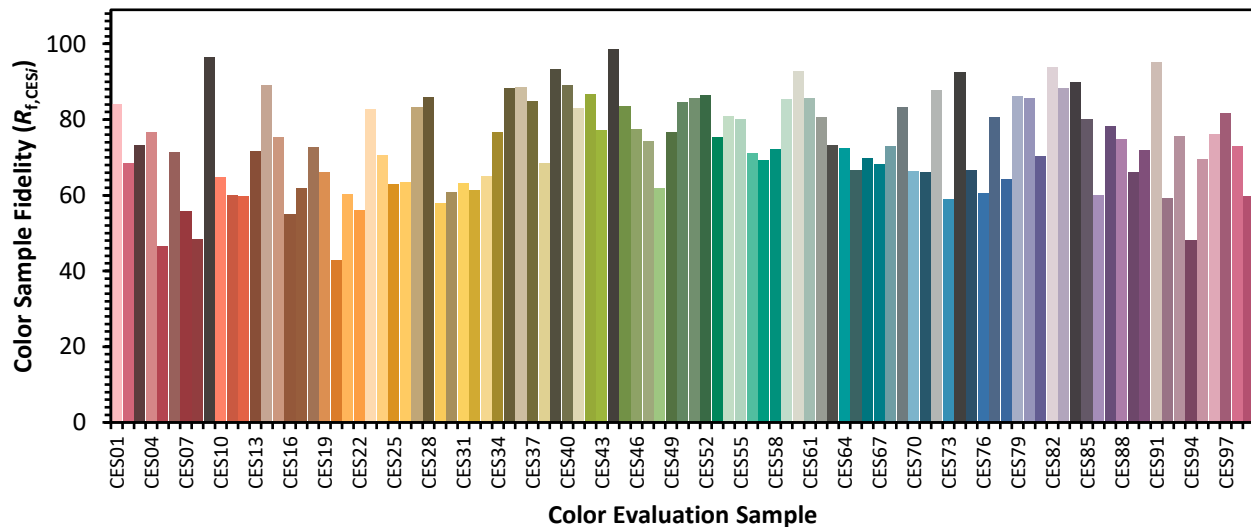


Color Vector Graphics



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

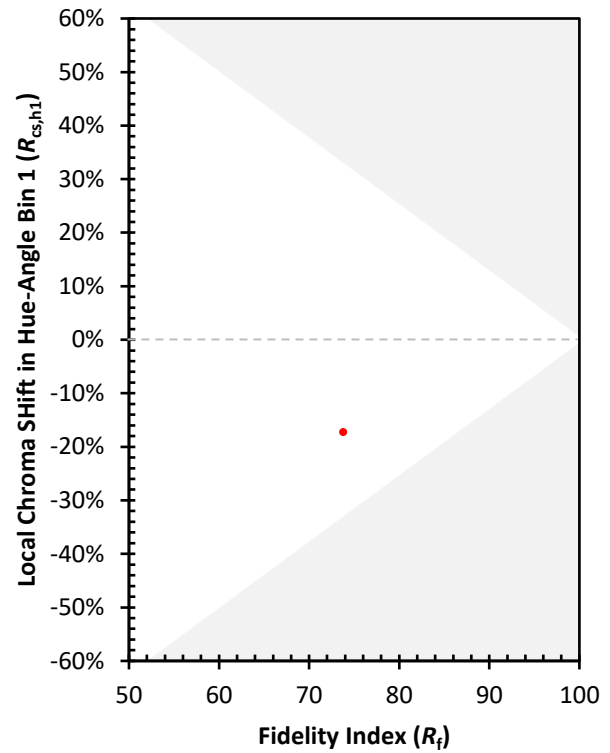
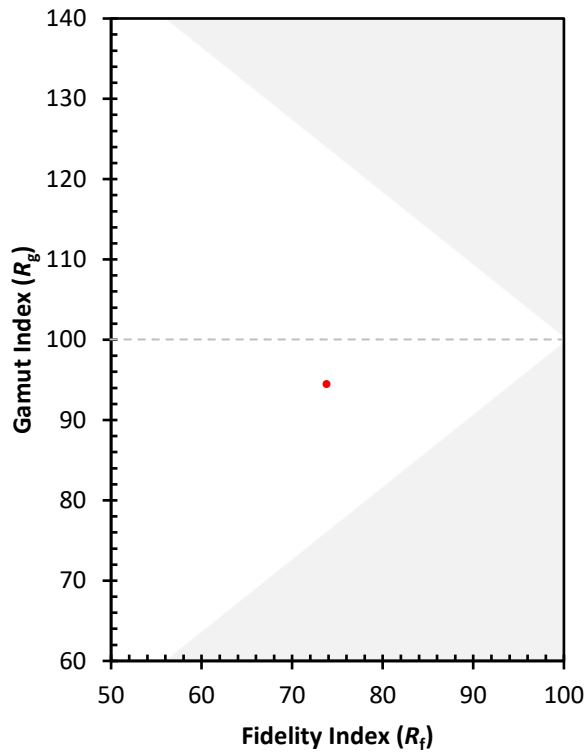
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82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