

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: P1049497

Luminaire Tested: **GALN-SA1A-722-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049497
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 1xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2433.9 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

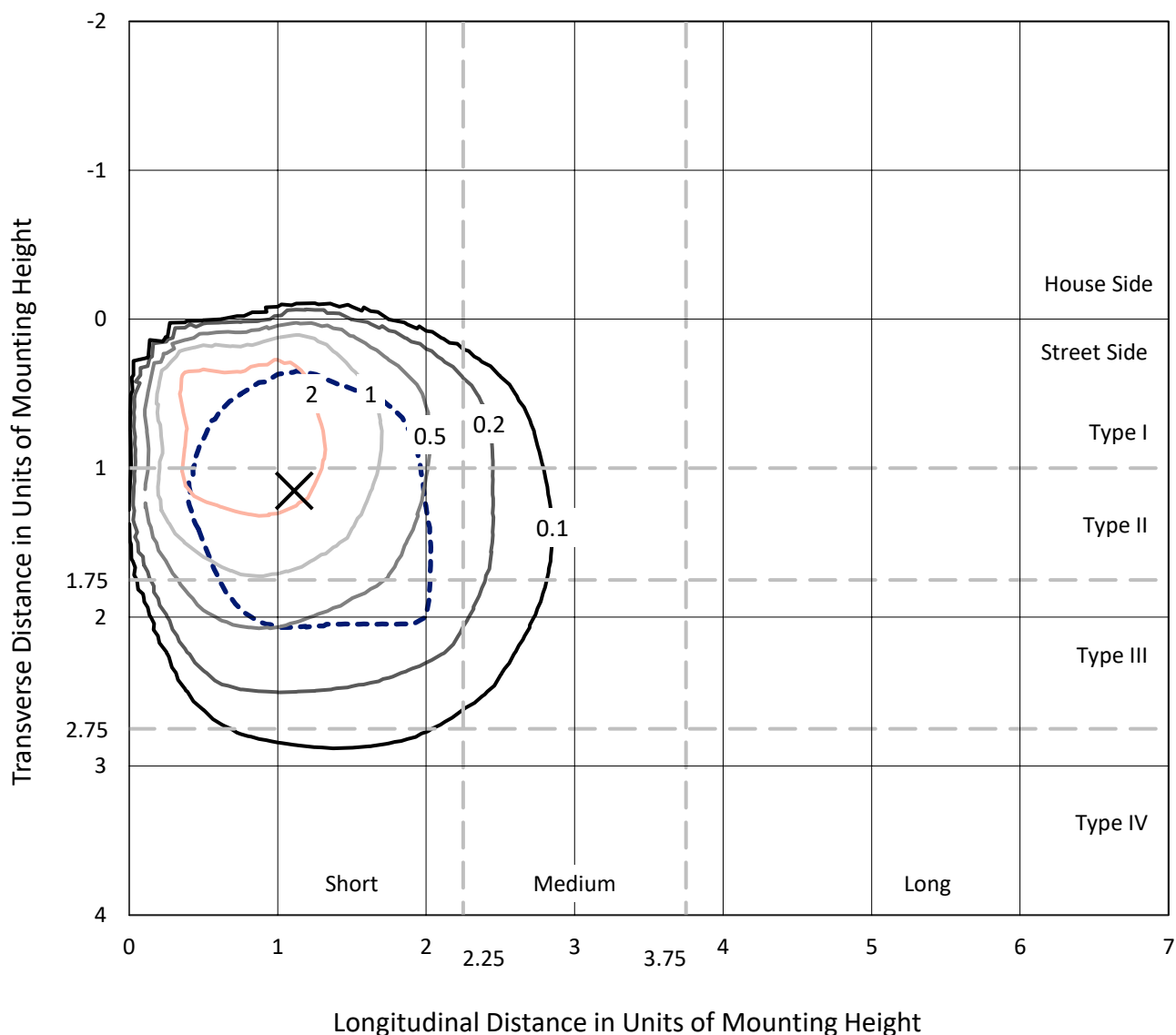
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

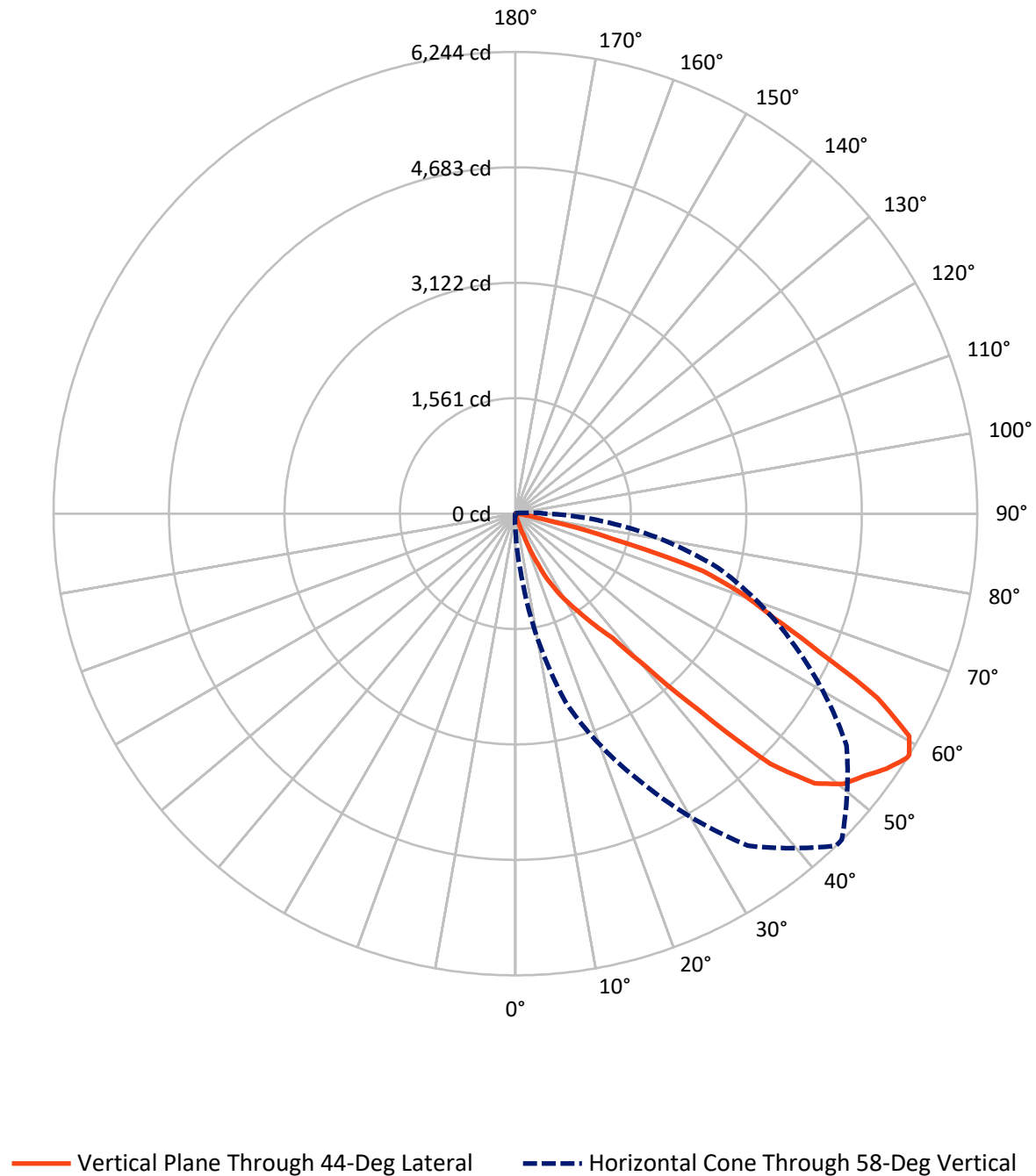


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc

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	16.6	0.0	16.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	2417.3	0.0	2417.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	2433.9	0.0	2433.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.0
10°-20°	5.3	0.2
20°-30°	57.7	2.4
30°-40°	170.5	7.0
40°-50°	508.2	20.9
50°-60°	806.4	33.1
60°-70°	672.7	27.6
70°-80°	207.5	8.5
80°-90°	4.6	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°	2433.9	100.0
0°-180°	2433.9	100.0



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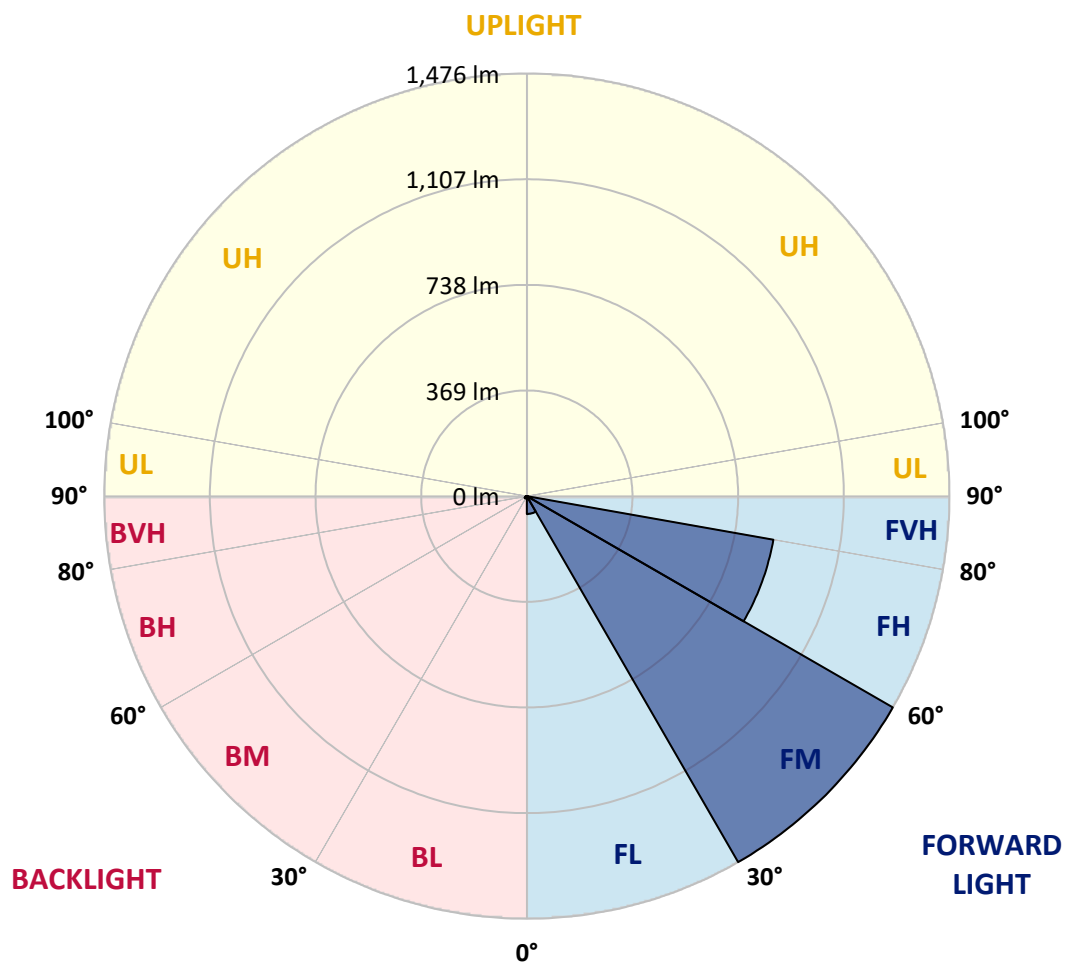
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	62.3	2.6			
FM	(30°-60°)	1476.1	60.6			
FH	(60°-80°)	874.5	35.9			G1/1800
FVH	(80°-90°)	4.4	0.2			G0/10
BL	(0°-30°)	1.6	0.1	B0/110		
BM	(30°-60°)	9.1	0.4	B0/220		
BH	(60°-80°)	5.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.2	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°	44°	45°	55°	65°	75°	85°
0°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
2.5°	13.8	13.8	13.2	12.5	11.8	11.0	10.8	10.5	10.3	10.1	9.9
5°	14.3	14.3	14.2	13.6	12.9	12.3	12.3	11.8	11.4	11.0	10.7
7.5°	14.7	14.9	15.3	15.1	14.7	14.2	14.2	13.8	13.2	12.3	11.8
10°	15.3	15.8	16.5	16.9	17.1	17.1	16.9	16.7	15.8	14.5	13.1
12.5°	15.8	16.9	18.8	20.6	21.7	23.2	23.0	22.6	20.2	17.5	14.9
15°	16.9	18.6	22.4	27.8	36.0	41.2	43.2	41.4	33.5	23.5	17.3
17.5°	18.2	21.0	32.5	58.1	95.2	112.9	123.6	114.9	76.1	44.7	21.7
20°	19.5	25.6	60.5	150.6	247.1	304.8	320.8	295.8	189.9	85.1	32.2
22.5°	21.7	35.9	122.6	311.3	532.5	619.1	635.4	555.4	358.7	168.0	48.4
25°	26.3	52.0	211.4	507.3	794.6	940.8	934.0	829.2	581.9	268.4	73.5
27.5°	32.9	75.8	319.7	720.7	1045.8	1174.7	1190.1	1060.5	775.7	394.7	104.4
30°	42.5	105.0	435.9	891.7	1247.1	1386.5	1389.1	1255.0	949.1	505.6	142.3
32.5°	51.7	132.6	537.6	1057.0	1445.5	1598.3	1609.7	1444.8	1078.5	621.1	175.2
35°	58.7	150.6	640.6	1202.3	1645.6	1856.1	1855.3	1659.5	1231.9	724.2	220.8
37.5°	59.2	168.6	733.8	1350.8	1898.9	2134.6	2158.0	1942.1	1417.2	851.8	276.7
40°	57.9	188.8	851.8	1582.5	2355.4	2717.1	2737.7	2465.6	1789.0	1070.3	364.0
42.5°	59.4	223.9	1043.4	2010.3	3113.5	3632.9	3672.6	3386.5	2472.4	1515.9	519.8
45°	67.1	289.9	1444.8	2726.1	4194.0	4827.3	4814.0	4402.0	3267.6	2194.4	827.9
47.5°	92.7	451.6	2039.7	3422.7	4884.6	5448.5	5459.9	4956.3	3731.6	2716.0	1242.9
50°	142.5	690.9	2539.7	3791.0	5181.6	5747.3	5736.6	5154.7	3908.0	2972.8	1497.2
52.5°	185.3	864.1	2790.5	3920.3	5219.6	5894.9	5894.2	5206.9	3935.4	2994.9	1529.0
55°	196.0	877.2	2792.5	3927.3	5304.9	6088.2	6112.4	5335.4	3970.8	2898.6	1409.3
57.5°	191.8	776.6	2675.9	3967.7	5456.8	6237.7	6238.9	5459.9	4060.9	2839.5	1211.1
58°	188.1	760.8	2652.4	3990.7	5482.9	6243.9	6240.8	5465.6	4134.3	2837.3	1180.0
60°	167.5	660.6	2560.6	4049.3	5444.1	6115.6	6086.3	5341.1	4123.4	2814.7	1023.6
62.5°	131.6	515.4	2470.3	3981.5	5028.2	5494.3	5506.4	4728.7	3759.0	2682.9	839.1
65°	104.8	384.1	2282.1	3492.4	4140.5	4511.9	4557.2	3845.3	3137.6	2271.8	618.7
67.5°	83.5	277.6	1914.4	2780.5	3276.4	3765.6	3798.6	3228.4	2430.8	1740.6	439.6
70°	67.8	187.7	1321.4	2033.5	2702.4	3252.5	3254.5	2682.0	1814.3	1140.5	275.8
72.5°	60.1	130.0	767.1	1483.0	2191.2	2650.3	2596.8	2176.4	1394.4	675.5	164.4
75°	52.0	86.2	376.2	906.6	1328.6	1337.6	1358.0	1009.6	697.0	321.2	98.5
77.5°	42.8	61.2	148.2	247.7	398.4	510.0	529.0	400.8	231.8	79.1	52.6
80°	29.4	29.0	39.9	75.9	114.0	142.9	133.3	103.1	60.7	30.3	18.8
82.5°	12.7	13.8	18.0	21.7	17.7	17.1	16.4	10.5	8.1	6.3	3.9
85°	4.0	3.7	3.9	3.9	3.1	2.4	2.4	1.1	0.0	0.0	0.0
87.5°	2.0	1.7	1.7	1.5	0.9	0.4	0.2	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°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
2.5°	9.7	9.7	9.4	9.0	8.8	8.5	8.3	8.1	7.9	7.7	7.5
5°	10.3	10.1	9.6	9.0	8.5	7.9	7.5	7.2	6.8	6.6	6.4
7.5°	11.2	10.8	9.7	8.8	8.1	7.4	7.0	6.4	6.1	5.5	5.3
10°	12.3	11.6	10.1	9.0	7.9	7.0	6.4	5.9	5.3	4.6	4.4
12.5°	13.8	12.5	10.7	8.8	7.5	6.4	5.9	5.1	4.6	4.0	3.7
15°	15.1	13.4	10.8	8.8	7.2	5.9	5.1	4.4	3.9	3.1	2.8
17.5°	16.9	14.2	10.7	8.3	6.6	5.1	4.4	3.9	2.9	1.8	1.5
20°	20.0	14.7	10.3	7.7	5.7	4.2	3.3	2.6	1.3	0.4	0.0
22.5°	25.0	16.2	9.9	7.0	5.0	3.3	2.2	0.9	0.0	0.0	0.0
25°	34.6	18.8	9.9	6.6	4.4	2.4	0.7	0.0	0.0	0.0	0.0
27.5°	46.0	22.2	9.9	5.7	3.5	1.3	0.0	0.0	0.0	0.0	0.0
30°	57.5	26.1	9.9	5.0	2.8	0.2	0.0	0.0	0.0	0.0	0.0
32.5°	68.6	29.4	10.1	4.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	79.8	30.0	9.9	3.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	94.1	28.9	9.4	3.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
40°	115.8	29.4	8.8	3.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	155.9	31.8	8.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	269.5	42.7	7.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	445.9	76.7	7.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	569.0	96.5	7.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	568.1	107.6	7.9	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
55°	505.1	109.6	8.5	4.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	422.1	100.0	9.7	5.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0
58°	407.4	95.6	10.1	5.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	333.9	78.0	12.9	6.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	230.6	68.0	14.7	8.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	163.1	61.4	16.0	8.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	121.9	56.6	17.7	9.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	93.4	53.1	21.7	9.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	76.1	49.1	26.3	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	63.1	44.3	25.4	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	41.9	34.4	23.2	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.7	13.6	18.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.2	1.8	2.6	3.3	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°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
2.5°	7.5	7.5	7.4	7.5	7.5	7.9	8.8	10.1	11.6	12.1	12.7
5°	6.3	6.1	5.9	5.9	5.9	6.4	7.2	8.6	10.3	11.0	11.4
7.5°	5.1	5.0	4.8	4.6	4.6	5.0	5.9	7.5	9.2	9.9	10.5
10°	4.2	3.9	3.7	3.5	3.5	3.9	4.8	6.4	8.3	9.0	9.7
12.5°	3.5	2.9	2.6	2.4	2.2	2.8	3.7	5.1	7.2	8.1	8.8
15°	2.4	1.8	1.3	1.1	0.9	1.5	2.4	4.0	6.1	7.2	7.9
17.5°	1.3	0.6	0.2	0.0	0.0	0.4	1.1	2.9	5.0	5.9	6.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.7	4.6	5.5
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.2	3.1	4.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	2.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1
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	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.5	2.0
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°	315°	316°	325°	335°	345°	355°	360°
0°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
2.5°	13.1	12.9	12.5	12.1	12.1	12.1	12.7	13.2	13.8	13.8
5°	12.1	12.1	12.0	11.6	11.6	11.8	12.5	13.4	14.2	14.3
7.5°	11.2	11.6	11.2	11.0	11.2	11.4	12.1	13.2	14.3	14.7
10°	10.7	10.8	10.8	10.7	10.7	11.0	11.8	13.2	14.7	15.3
12.5°	9.9	10.3	10.1	10.1	10.1	10.5	11.4	13.1	15.1	15.8
15°	9.2	9.7	9.7	9.6	9.6	9.7	11.0	12.9	15.6	16.9
17.5°	8.5	9.0	9.2	8.8	8.8	9.2	10.5	12.9	16.0	18.2
20°	7.0	7.9	8.5	7.9	7.9	8.3	9.6	12.1	16.2	19.5
22.5°	5.5	6.4	7.2	7.0	7.0	7.2	8.8	11.6	16.4	21.7
25°	4.0	5.0	5.5	5.9	5.9	6.4	8.1	11.2	17.1	26.3
27.5°	2.4	3.5	4.2	4.6	4.8	5.5	7.5	10.8	18.4	32.9
30°	1.1	2.0	2.9	3.7	3.7	5.0	7.0	10.5	20.0	42.5
32.5°	0.0	0.9	1.5	2.6	2.8	4.0	6.4	10.1	22.4	51.7
35°	0.0	0.0	0.7	2.0	2.0	3.3	5.9	9.7	26.1	58.7
37.5°	0.0	0.0	0.0	1.5	1.7	2.9	5.7	9.6	26.8	59.2
40°	0.0	0.0	0.0	1.1	1.3	2.8	5.7	9.7	24.3	57.9
42.5°	0.0	0.0	0.0	0.7	0.9	2.8	5.7	10.1	21.9	59.4
45°	0.0	0.0	0.0	0.6	0.7	2.9	5.5	9.9	20.6	67.1
47.5°	0.0	0.0	0.0	0.7	1.1	2.9	5.3	9.7	20.8	92.7
50°	0.0	0.0	0.0	0.9	1.3	2.9	5.5	9.4	22.8	142.5
52.5°	0.0	0.0	0.0	0.7	1.1	3.3	6.1	9.2	24.8	185.3
55°	0.0	0.0	0.0	0.2	0.6	4.2	6.6	9.2	27.9	196.0
57.5°	0.0	0.0	0.0	0.0	0.0	4.8	7.5	9.7	33.1	191.8
58°	0.0	0.0	0.0	0.0	0.0	4.8	7.7	9.7	33.5	188.1
60°	0.0	0.0	0.0	0.0	0.0	4.8	8.5	10.8	36.0	167.5
62.5°	0.0	0.0	0.0	0.0	0.0	4.0	10.1	13.6	37.5	131.6
65°	0.0	0.0	0.0	0.0	0.0	3.3	12.0	14.9	38.6	104.8
67.5°	0.0	0.0	0.0	0.0	0.0	3.1	12.3	15.1	39.2	83.5
70°	0.0	0.0	0.0	0.0	0.0	3.3	12.1	16.2	41.0	67.8
72.5°	0.0	0.0	0.0	0.0	0.0	3.7	11.0	17.8	41.0	60.1
75°	0.0	0.0	0.0	0.0	0.0	3.9	10.3	20.0	37.3	52.0
77.5°	0.0	0.0	0.0	0.0	0.0	3.7	10.1	23.4	33.3	42.8
80°	0.4	0.6	0.6	0.4	0.4	3.1	9.9	23.7	28.3	29.4
82.5°	1.1	1.5	1.3	0.9	0.9	2.8	8.8	19.9	14.7	12.7
85°	2.0	2.4	2.4	2.0	2.0	2.6	5.5	7.2	5.0	4.0
87.5°	2.8	3.1	3.1	2.8	2.8	2.6	2.4	2.2	2.0	2.0
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: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

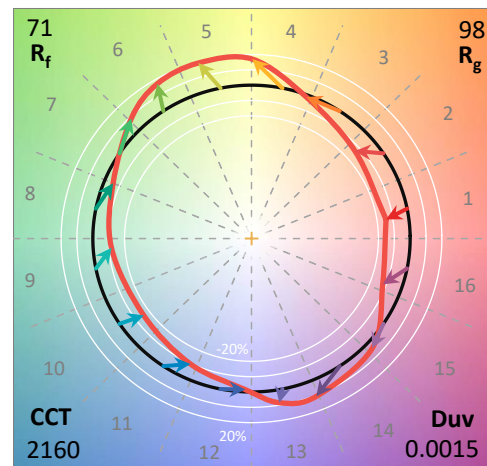
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

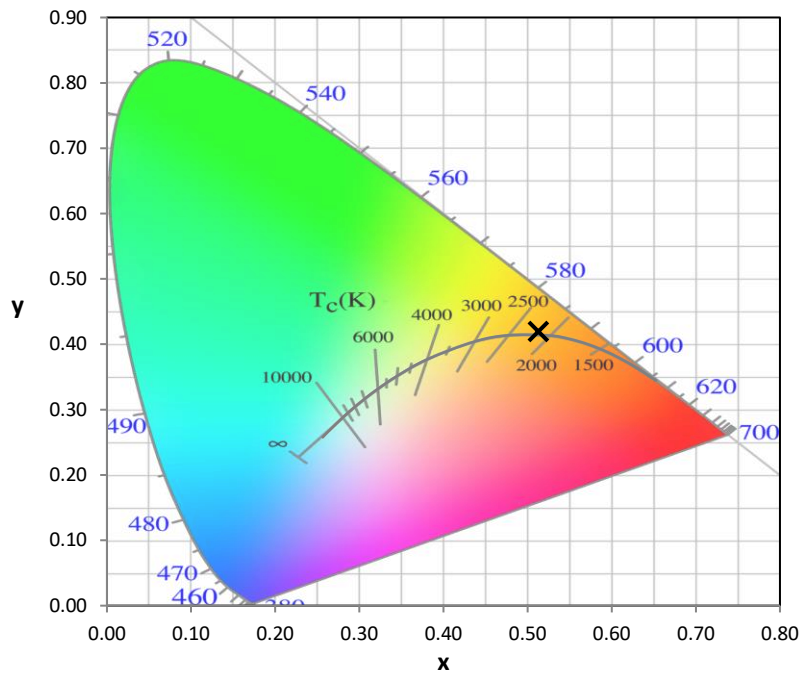
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

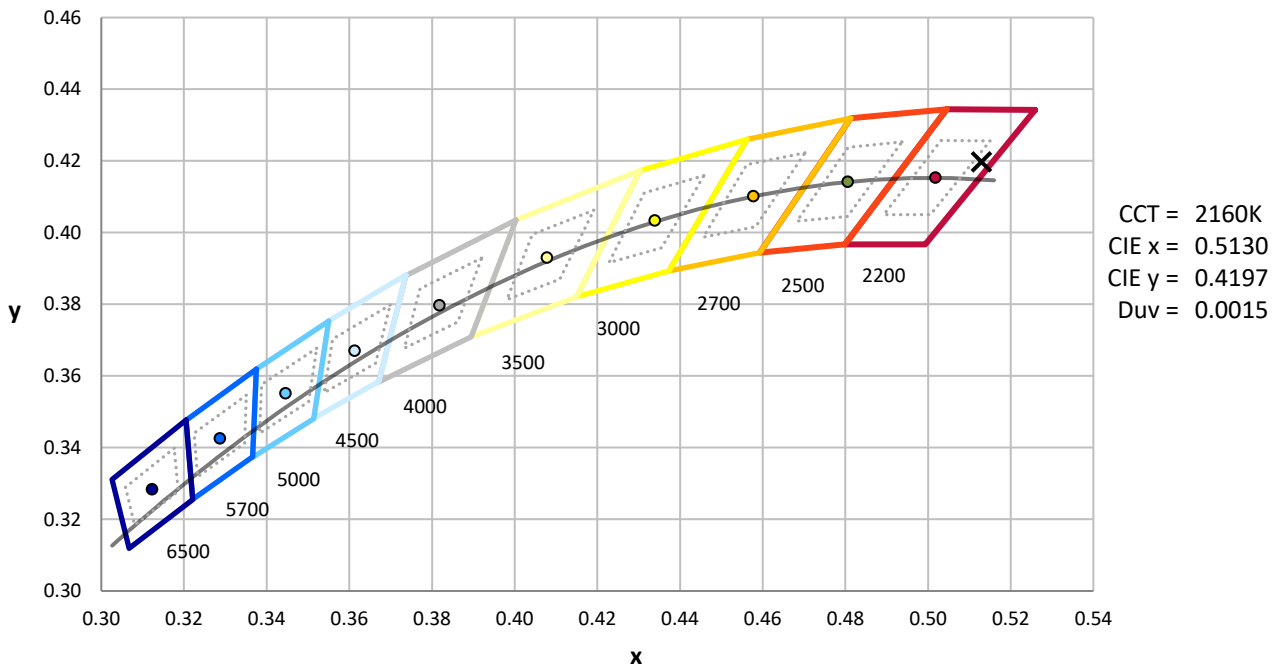
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



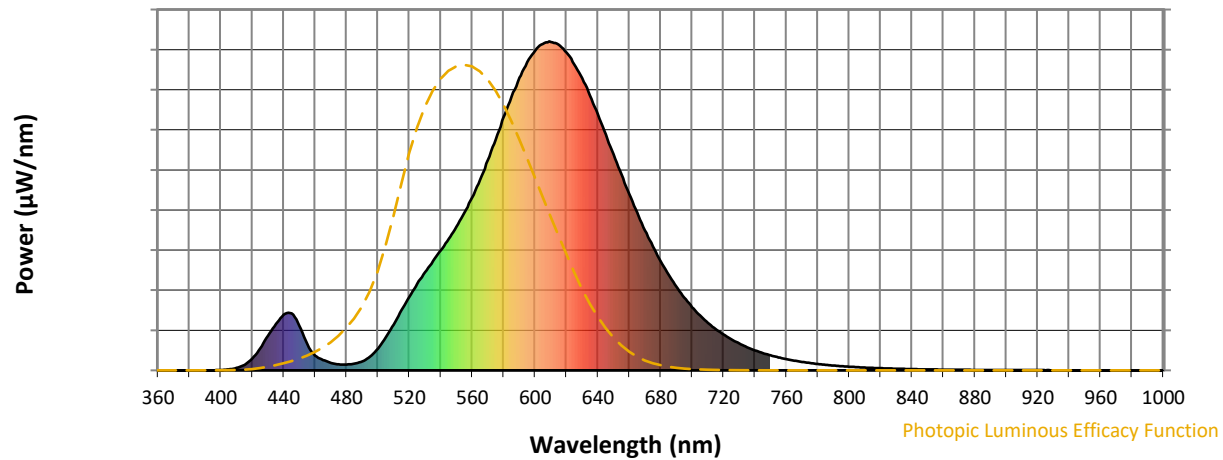
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

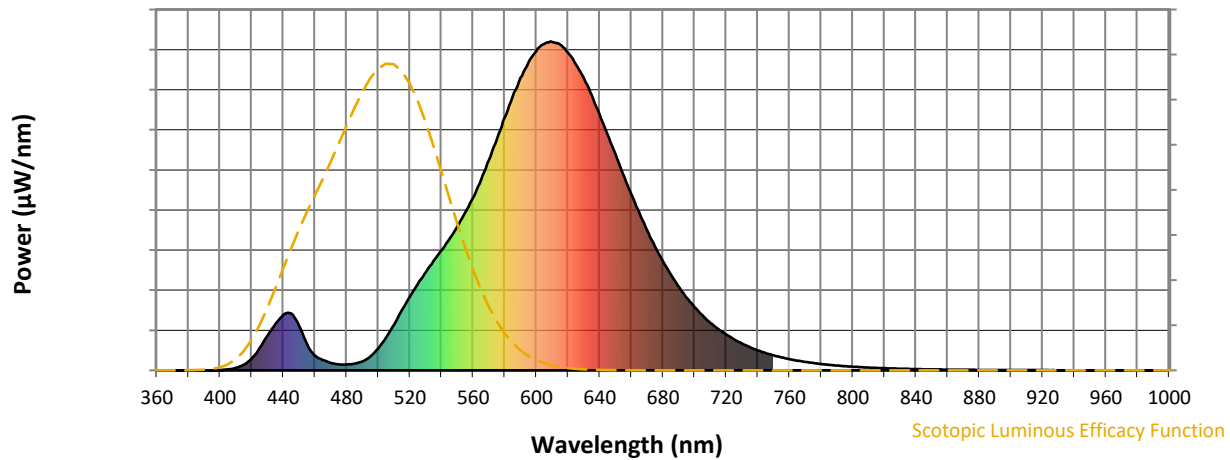


Photopic Lumens: NR

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



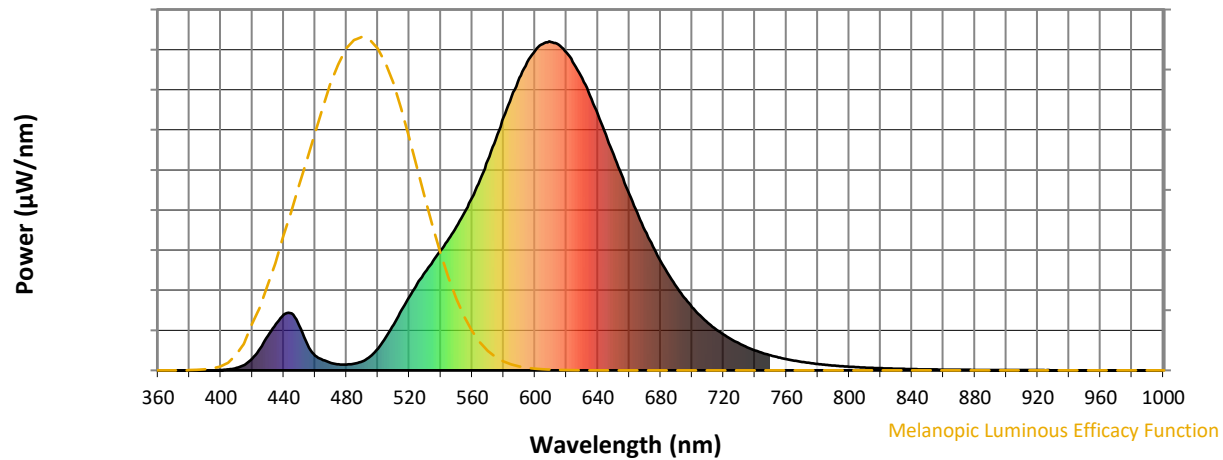
Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

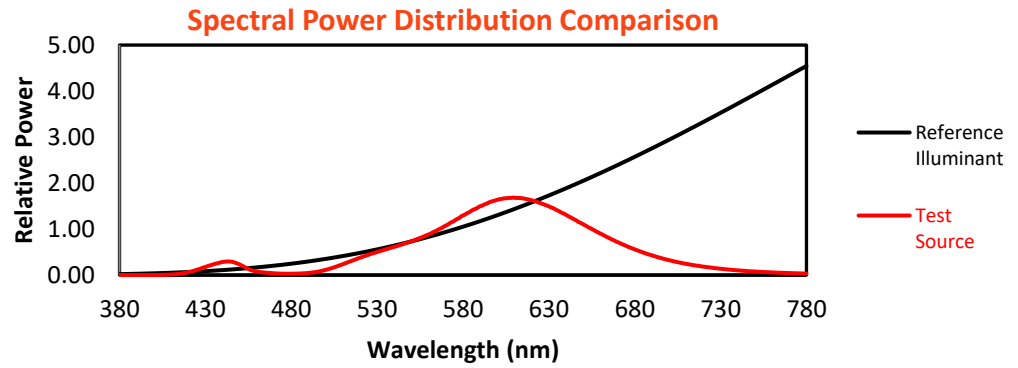
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

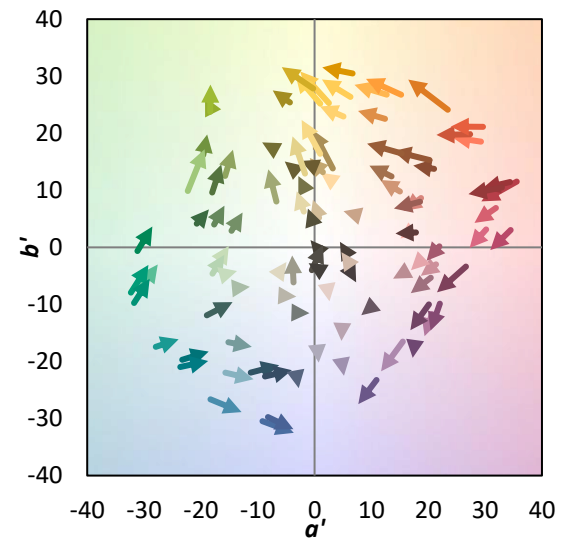
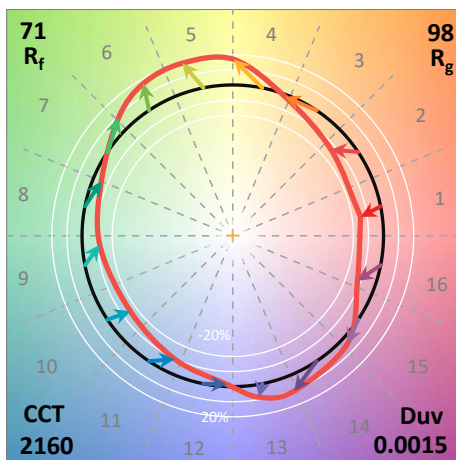
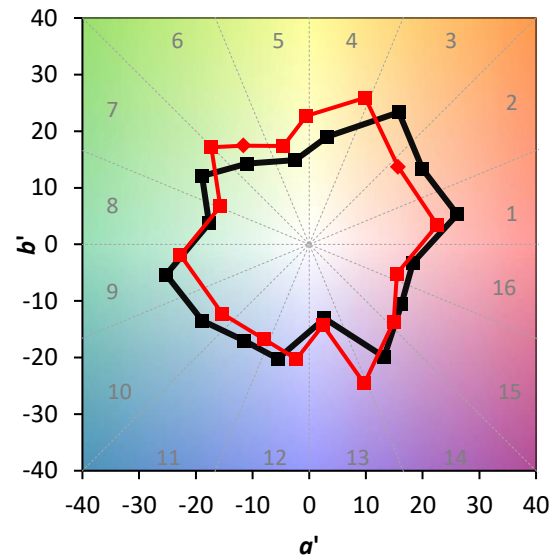
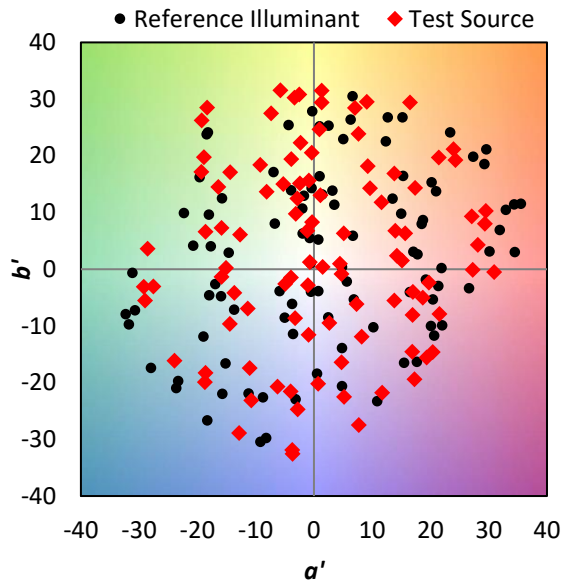
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE R_a = 71.9$
 $R_g = -17.8$

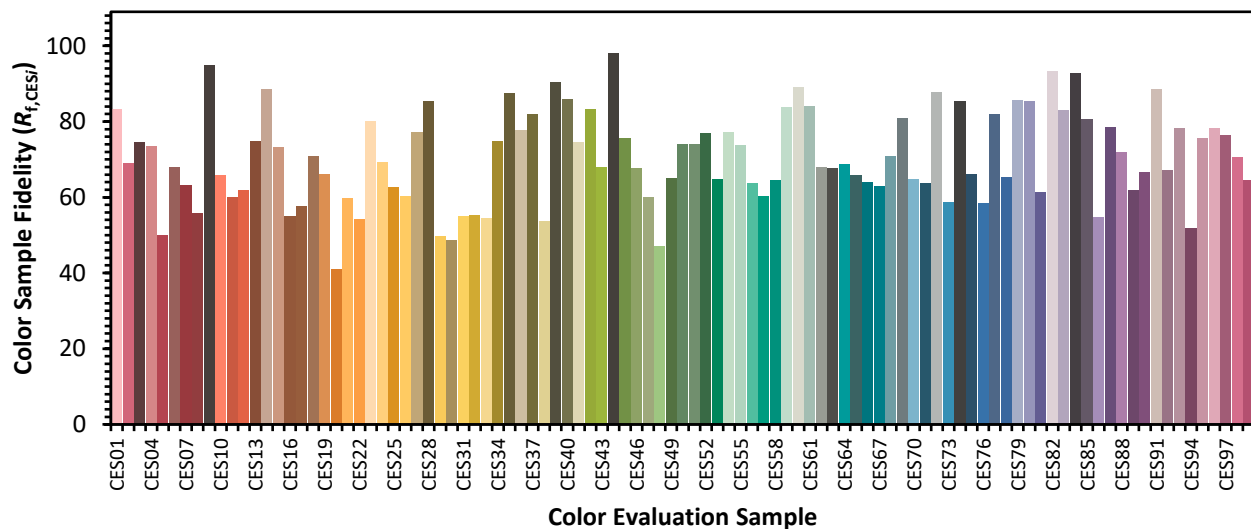


Color Vector Graphics

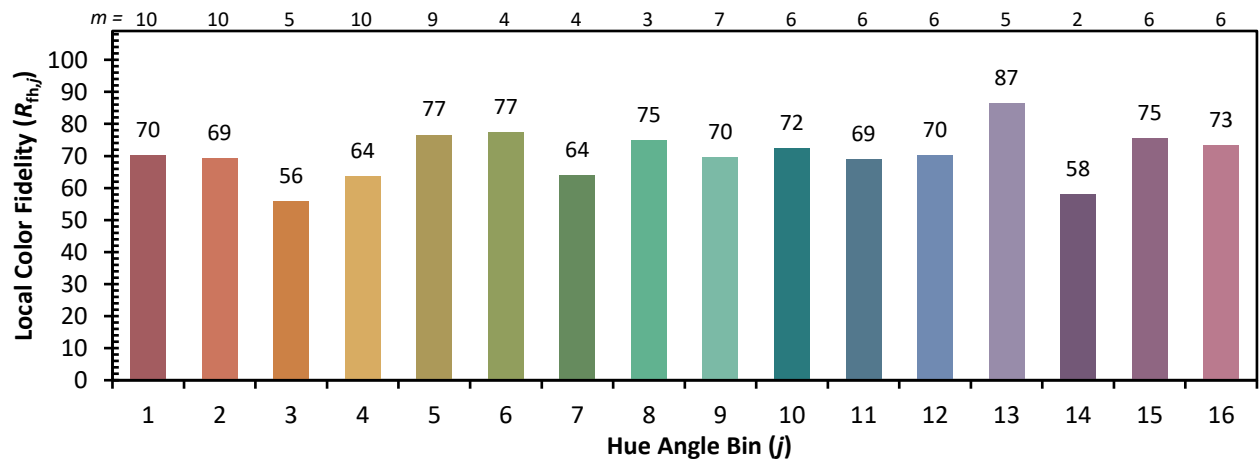
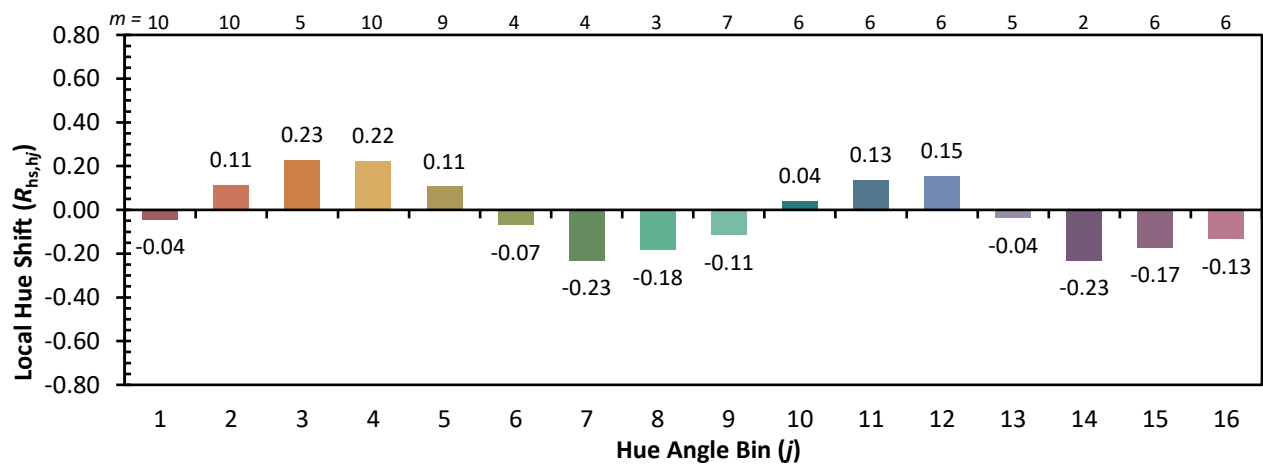
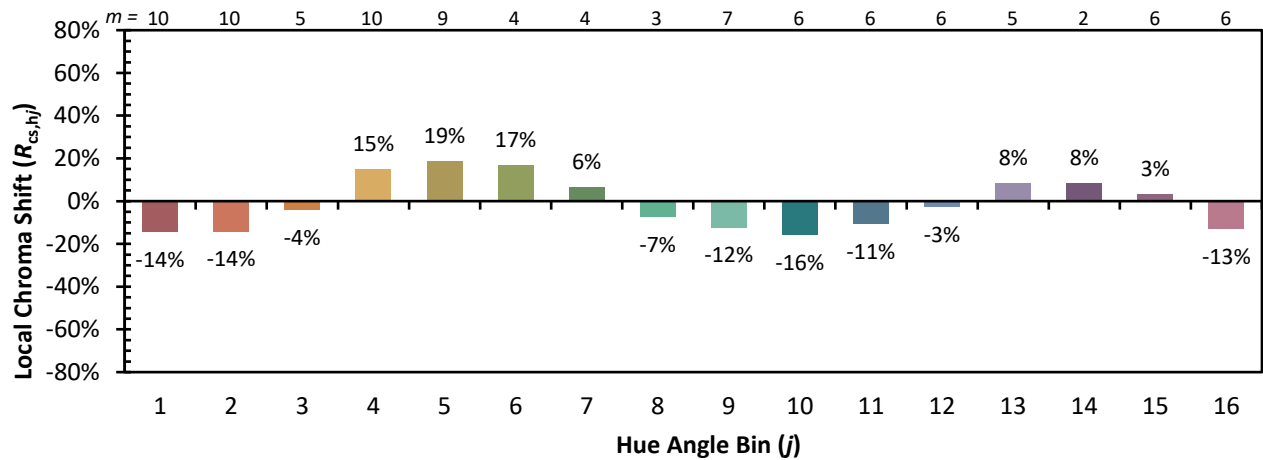


Individual Sample Fidelity Index ($R_{f,i}$)

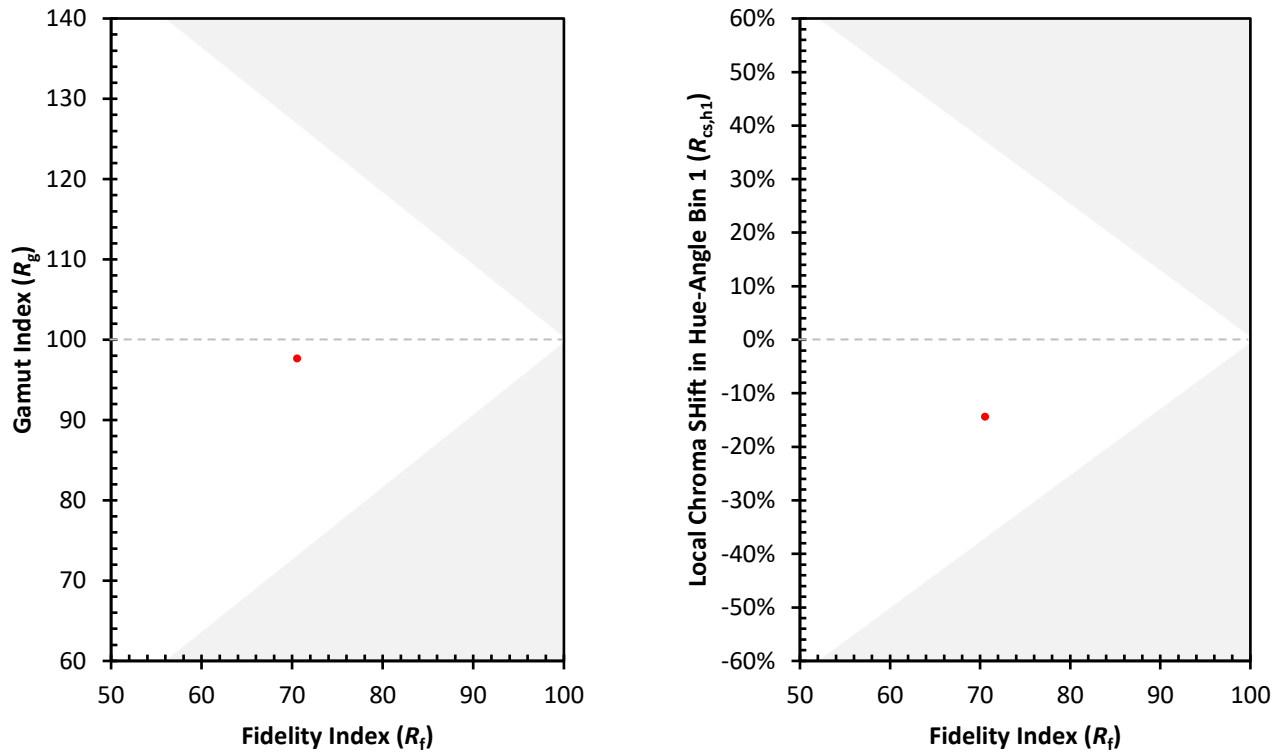
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)