

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: P1049821

Luminaire Tested: **GALN-SA1A-840-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049821
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 1xLight Square PACKAGE
80CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3032.1 lumens
Efficiency: N/A
Efficacy: 104.6 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

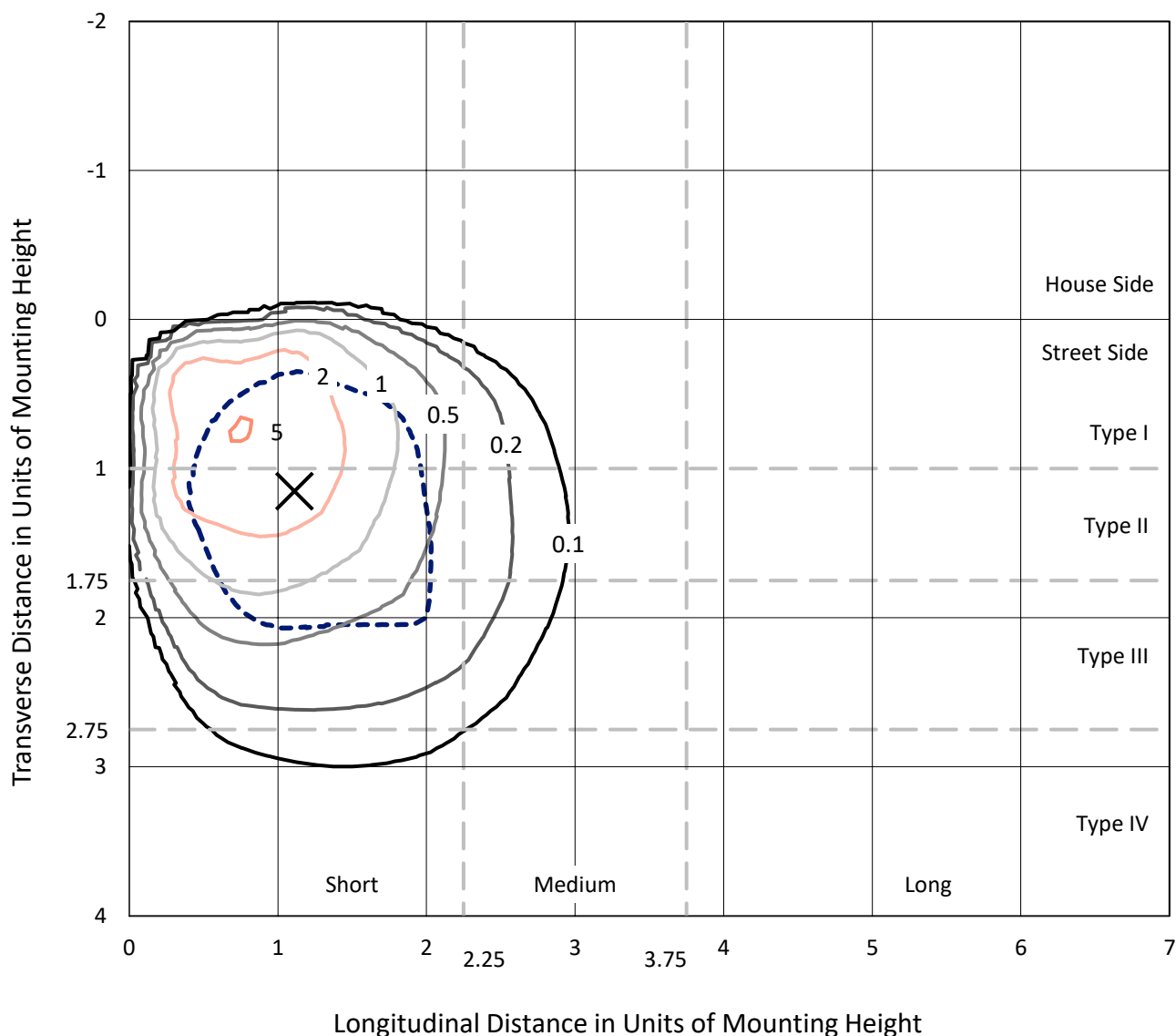
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

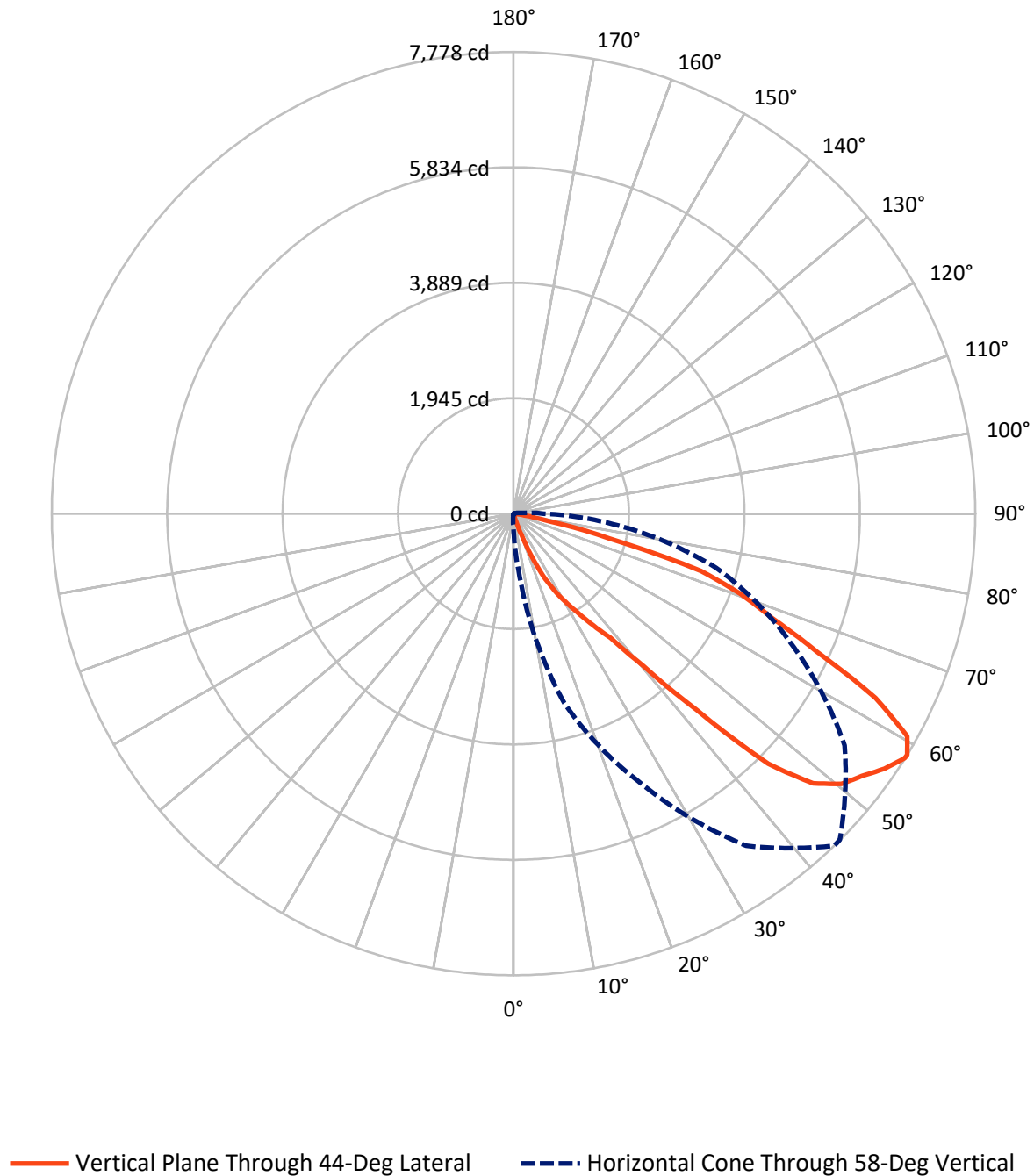


Based on 20 foot mounting height. Maximum calculated value = 5.3 fc

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	20.7	0.0	20.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	3011.4	0.0	3011.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	3032.1	0.0	3032.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.0
10°-20°	6.6	0.2
20°-30°	71.8	2.4
30°-40°	212.4	7.0
40°-50°	633.1	20.9
50°-60°	1004.6	33.1
60°-70°	838.0	27.6
70°-80°	258.5	8.5
80°-90°	5.7	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°	3032.1	100.0
0°-180°	3032.1	100.0

Coefficient of Utilization



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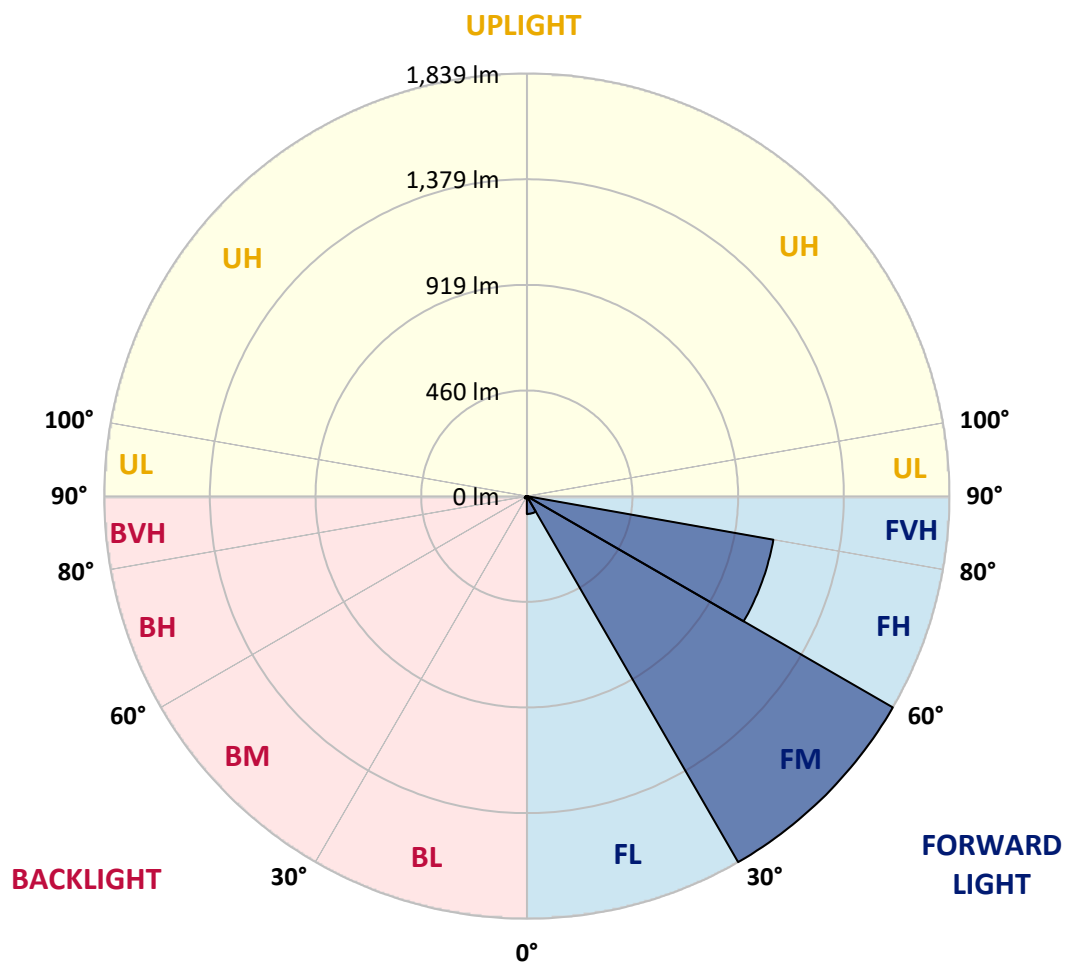
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	77.6	2.6			
FM	(30°-60°)	1838.9	60.6			
FH	(60°-80°)	1089.4	35.9			G1/1800
FVH	(80°-90°)	5.5	0.2			G0/10
BL	(0°-30°)	2.0	0.1	B0/110		
BM	(30°-60°)	11.3	0.4	B0/220		
BH	(60°-80°)	7.1	0.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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°
0°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
2.5°	17.2	17.2	16.5	15.6	14.7	13.7	13.5	13.1	12.8	12.6
5°	17.9	17.9	17.6	16.9	16.0	15.3	15.3	14.7	14.2	13.7
7.5°	18.3	18.6	19.0	18.8	18.3	17.6	17.6	17.2	16.5	15.3
10°	19.0	19.7	20.6	21.1	21.3	21.3	21.1	20.8	19.7	18.1
12.5°	19.7	21.1	23.4	25.7	27.0	28.9	28.6	28.2	25.2	21.8
15°	21.1	23.1	27.9	34.6	44.9	51.3	53.8	51.5	41.7	29.3
17.5°	22.7	26.1	40.5	72.4	118.6	140.6	153.9	143.2	94.8	55.7
20°	24.3	31.8	75.4	187.6	307.8	379.8	399.7	368.5	236.6	106.0
22.5°	27.0	44.7	152.8	387.8	663.3	771.2	791.6	691.9	446.9	209.3
25°	32.8	64.8	263.4	631.9	989.9	1172.0	1163.6	1033.0	724.9	334.4
27.5°	41.0	94.4	398.3	897.9	1302.8	1463.4	1482.6	1321.1	966.3	491.8
30°	52.9	130.8	543.1	1110.9	1553.6	1727.2	1730.4	1563.5	1182.3	629.9
32.5°	64.4	165.1	669.7	1316.8	1800.8	1991.1	2005.3	1799.8	1343.6	773.7
35°	73.1	187.6	798.0	1497.7	2050.0	2312.2	2311.3	2067.4	1534.6	902.2
37.5°	73.8	210.0	914.1	1682.8	2365.6	2659.2	2688.3	2419.4	1765.5	1061.2
40°	72.1	235.2	1061.2	1971.4	2934.3	3384.9	3410.5	3071.5	2228.6	1333.3
42.5°	74.0	279.0	1299.8	2504.4	3878.7	4525.7	4575.2	4218.8	3080.0	1888.5
45°	83.6	361.2	1799.8	3396.1	5224.8	6013.6	5997.1	5483.8	4070.6	2733.7
47.5°	115.4	562.5	2541.0	4263.9	6085.1	6787.6	6801.8	6174.4	4648.7	3383.5
50°	177.5	860.8	3163.8	4722.7	6455.0	7159.8	7146.5	6421.5	4868.4	3703.5
52.5°	230.9	1076.5	3476.2	4883.7	6502.4	7343.7	7342.8	6486.6	4902.5	3730.9
55°	244.2	1092.8	3478.8	4892.4	6608.7	7584.4	7614.7	6646.7	4946.7	3610.9
57.5°	238.9	967.5	3333.5	4942.8	6797.9	7770.6	7772.2	6801.8	5059.0	3537.4
58°	234.3	947.8	3304.2	4971.5	6830.4	7778.4	7774.5	6808.9	5150.3	3534.6
60°	208.7	823.0	3189.9	5044.5	6782.1	7618.5	7582.1	6653.8	5136.8	3506.5
62.5°	164.0	642.0	3077.5	4960.0	6264.0	6844.6	6859.7	5890.8	4682.9	3342.2
65°	130.6	478.5	2842.9	4350.7	5158.1	5620.8	5677.1	4790.3	3908.7	2830.1
67.5°	104.0	345.9	2384.8	3463.9	4081.6	4691.1	4732.1	4021.8	3028.2	2168.4
70°	84.5	233.9	1646.2	2533.3	3366.5	4051.8	4054.4	3341.1	2260.2	1420.8
72.5°	74.9	161.9	955.6	1847.5	2729.8	3301.7	3235.1	2711.2	1737.1	841.5
75°	64.8	107.4	468.6	1129.4	1655.1	1666.3	1691.7	1257.7	868.3	400.1
77.5°	53.4	76.3	184.6	308.5	496.3	635.4	659.0	499.3	288.8	98.5
80°	36.6	36.2	49.7	94.6	142.0	178.0	166.1	128.5	75.6	37.8
82.5°	15.8	17.2	22.4	27.0	22.0	21.3	20.4	13.1	10.1	7.8
85°	5.0	4.6	4.8	4.8	3.9	3.0	3.0	1.4	0.0	0.0
87.5°	2.5	2.1	2.1	1.8	1.1	0.5	0.2	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



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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
13.3	0°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
12.4	2.5°	12.1	12.1	11.7	11.2	11.0	10.5	10.3	10.1	9.8	9.6
13.3	5°	12.8	12.6	11.9	11.2	10.5	9.8	9.4	8.9	8.5	8.2
14.7	7.5°	14.0	13.5	12.1	11.0	10.1	9.2	8.7	8.0	7.6	6.9
16.3	10°	15.3	14.4	12.6	11.2	9.8	8.7	8.0	7.3	6.6	5.7
18.6	12.5°	17.2	15.6	13.3	11.0	9.4	8.0	7.3	6.4	5.7	5.0
21.5	15°	18.8	16.7	13.5	11.0	8.9	7.3	6.4	5.5	4.8	3.9
27.0	17.5°	21.1	17.6	13.3	10.3	8.2	6.4	5.5	4.8	3.7	2.3
40.1	20°	25.0	18.3	12.8	9.6	7.1	5.3	4.1	3.2	1.6	0.5
60.2	22.5°	31.2	20.2	12.4	8.7	6.2	4.1	2.7	1.1	0.0	0.0
91.6	25°	43.1	23.4	12.4	8.2	5.5	3.0	0.9	0.0	0.0	0.0
130.1	27.5°	57.3	27.7	12.4	7.1	4.4	1.6	0.0	0.0	0.0	0.0
177.3	30°	71.7	32.5	12.4	6.2	3.4	0.2	0.0	0.0	0.0	0.0
218.3	32.5°	85.4	36.6	12.6	5.3	2.3	0.0	0.0	0.0	0.0	0.0
275.1	35°	99.4	37.3	12.4	4.6	1.4	0.0	0.0	0.0	0.0	0.0
344.7	37.5°	117.3	36.0	11.7	4.1	0.7	0.0	0.0	0.0	0.0	0.0
453.5	40°	144.3	36.6	11.0	3.9	0.2	0.0	0.0	0.0	0.0	0.0
647.5	42.5°	194.2	39.6	10.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0
1031.4	45°	335.8	53.1	9.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
1548.4	47.5°	555.4	95.5	8.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0
1865.1	50°	708.9	120.2	9.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0
1904.8	52.5°	707.8	134.0	9.8	4.6	0.9	0.0	0.0	0.0	0.0	0.0
1755.6	55°	629.2	136.5	10.5	5.0	3.0	0.0	0.0	0.0	0.0	0.0
1508.7	57.5°	525.9	124.6	12.1	6.2	5.5	0.0	0.0	0.0	0.0	0.0
1470.0	58°	507.6	119.1	12.6	6.4	6.0	0.0	0.0	0.0	0.0	0.0
1275.1	60°	415.9	97.1	16.0	8.0	8.0	0.0	0.0	0.0	0.0	0.0
1045.4	62.5°	287.2	84.7	18.3	10.3	8.2	0.0	0.0	0.0	0.0	0.0
770.7	65°	203.2	76.5	19.9	11.0	6.6	0.0	0.0	0.0	0.0	0.0
547.7	67.5°	151.9	70.5	22.0	11.2	3.4	0.0	0.0	0.0	0.0	0.0
343.6	70°	116.4	66.2	27.0	11.9	0.9	0.0	0.0	0.0	0.0	0.0
204.8	72.5°	94.8	61.2	32.8	12.4	0.0	0.0	0.0	0.0	0.0	0.0
122.8	75°	78.6	55.2	31.6	13.5	0.0	0.0	0.0	0.0	0.0	0.0
65.5	77.5°	52.2	42.8	28.9	13.5	0.0	0.0	0.0	0.0	0.0	0.0
23.4	80°	18.3	16.9	22.4	11.9	0.0	0.0	0.0	0.0	0.0	0.0
4.8	82.5°	2.7	2.3	3.2	4.1	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
13.3	0°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
9.4	2.5°	9.4	9.4	9.2	9.4	9.4	9.8	11.0	12.6	14.4	15.1
8.0	5°	7.8	7.6	7.3	7.3	7.3	8.0	8.9	10.8	12.8	13.7
6.6	7.5°	6.4	6.2	6.0	5.7	5.7	6.2	7.3	9.4	11.5	12.4
5.5	10°	5.3	4.8	4.6	4.4	4.4	4.8	6.0	8.0	10.3	11.2
4.6	12.5°	4.4	3.7	3.2	3.0	2.7	3.4	4.6	6.4	8.9	10.1
3.4	15°	3.0	2.3	1.6	1.4	1.1	1.8	3.0	5.0	7.6	8.9
1.8	17.5°	1.6	0.7	0.2	0.0	0.0	0.5	1.4	3.7	6.2	7.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.6	5.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.7	3.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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	0.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
0.0	90°	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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
13.3	0°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
15.8	2.5°	16.3	16.0	15.6	15.1	15.1	15.1	15.8	16.5	17.2	17.2
14.2	5°	15.1	15.1	14.9	14.4	14.4	14.7	15.6	16.7	17.6	17.9
13.1	7.5°	14.0	14.4	14.0	13.7	14.0	14.2	15.1	16.5	17.9	18.3
12.1	10°	13.3	13.5	13.5	13.3	13.3	13.7	14.7	16.5	18.3	19.0
11.0	12.5°	12.4	12.8	12.6	12.6	12.6	13.1	14.2	16.3	18.8	19.7
9.8	15°	11.5	12.1	12.1	11.9	11.9	12.1	13.7	16.0	19.5	21.1
8.5	17.5°	10.5	11.2	11.5	11.0	11.0	11.5	13.1	16.0	19.9	22.7
6.9	20°	8.7	9.8	10.5	9.8	9.8	10.3	11.9	15.1	20.2	24.3
5.0	22.5°	6.9	8.0	8.9	8.7	8.7	8.9	11.0	14.4	20.4	27.0
3.0	25°	5.0	6.2	6.9	7.3	7.3	8.0	10.1	14.0	21.3	32.8
1.4	27.5°	3.0	4.4	5.3	5.7	6.0	6.9	9.4	13.5	22.9	41.0
0.0	30°	1.4	2.5	3.7	4.6	4.6	6.2	8.7	13.1	25.0	52.9
0.0	32.5°	0.0	1.1	1.8	3.2	3.4	5.0	8.0	12.6	27.9	64.4
0.0	35°	0.0	0.0	0.9	2.5	2.5	4.1	7.3	12.1	32.5	73.1
0.0	37.5°	0.0	0.0	0.0	1.8	2.1	3.7	7.1	11.9	33.4	73.8
0.0	40°	0.0	0.0	0.0	1.4	1.6	3.4	7.1	12.1	30.2	72.1
0.0	42.5°	0.0	0.0	0.0	0.9	1.1	3.4	7.1	12.6	27.3	74.0
0.0	45°	0.0	0.0	0.0	0.7	0.9	3.7	6.9	12.4	25.7	83.6
0.0	47.5°	0.0	0.0	0.0	0.9	1.4	3.7	6.6	12.1	25.9	115.4
0.0	50°	0.0	0.0	0.0	1.1	1.6	3.7	6.9	11.7	28.4	177.5
0.0	52.5°	0.0	0.0	0.0	0.9	1.4	4.1	7.6	11.5	30.9	230.9
0.0	55°	0.0	0.0	0.0	0.2	0.7	5.3	8.2	11.5	34.8	244.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	6.0	9.4	12.1	41.2	238.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	6.0	9.6	12.1	41.7	234.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	6.0	10.5	13.5	44.9	208.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	5.0	12.6	16.9	46.7	164.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	4.1	14.9	18.6	48.1	130.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	3.9	15.3	18.8	48.8	104.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	4.1	15.1	20.2	51.1	84.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	4.6	13.7	22.2	51.1	74.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	4.8	12.8	25.0	46.5	64.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	4.6	12.6	29.1	41.5	53.4
0.0	80°	0.5	0.7	0.7	0.5	0.5	3.9	12.4	29.5	35.3	36.6
0.2	82.5°	1.4	1.8	1.6	1.1	1.1	3.4	11.0	24.7	18.3	15.8
1.4	85°	2.5	3.0	3.0	2.5	2.5	3.2	6.9	8.9	6.2	5.0
2.5	87.5°	3.4	3.9	3.9	3.4	3.4	3.2	3.0	2.7	2.5	2.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

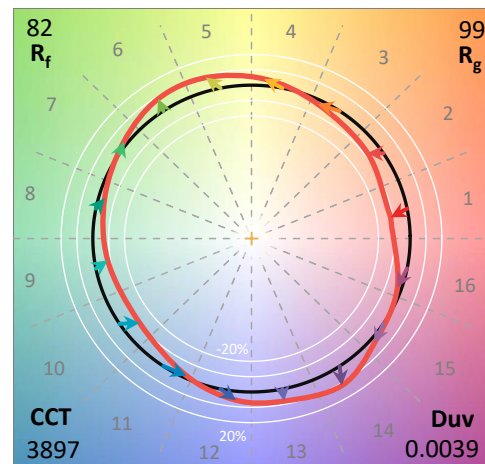
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-11
 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-840-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3897
 CIE u' : 0.2249
 CIE v' : 0.5084
 Duv: 0.0039
 CIE x: 0.3882
 CIE y: 0.3900
 CIE z: 0.2218
 Peak Wavelength (nm): 445
 Dominant Wavelength (nm): 577
 Purity: 33.54925
 R_f: 81.8
 R_g: 98.6

CRI (Ra): 80.2
 R1: 78.9
 R2: 83.5
 R3: 88.3
 R4: 82.1
 R5: 78.8
 R6: 78.4
 R7: 85.8
 R8: 65.8
 R9: 6.7
 R10: 61.9
 R11: 81.9
 R12: 58.9
 R13: 79.2
 R14: 93.2
 R15: 71.9



Test Conditions

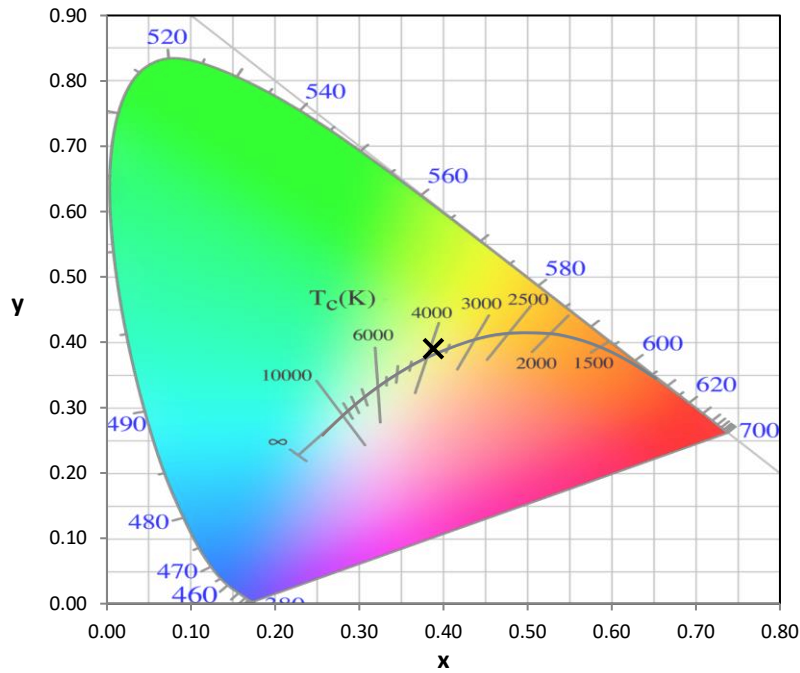
Stabilization Time: 24M
 Operation Time: 1H 24M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-11

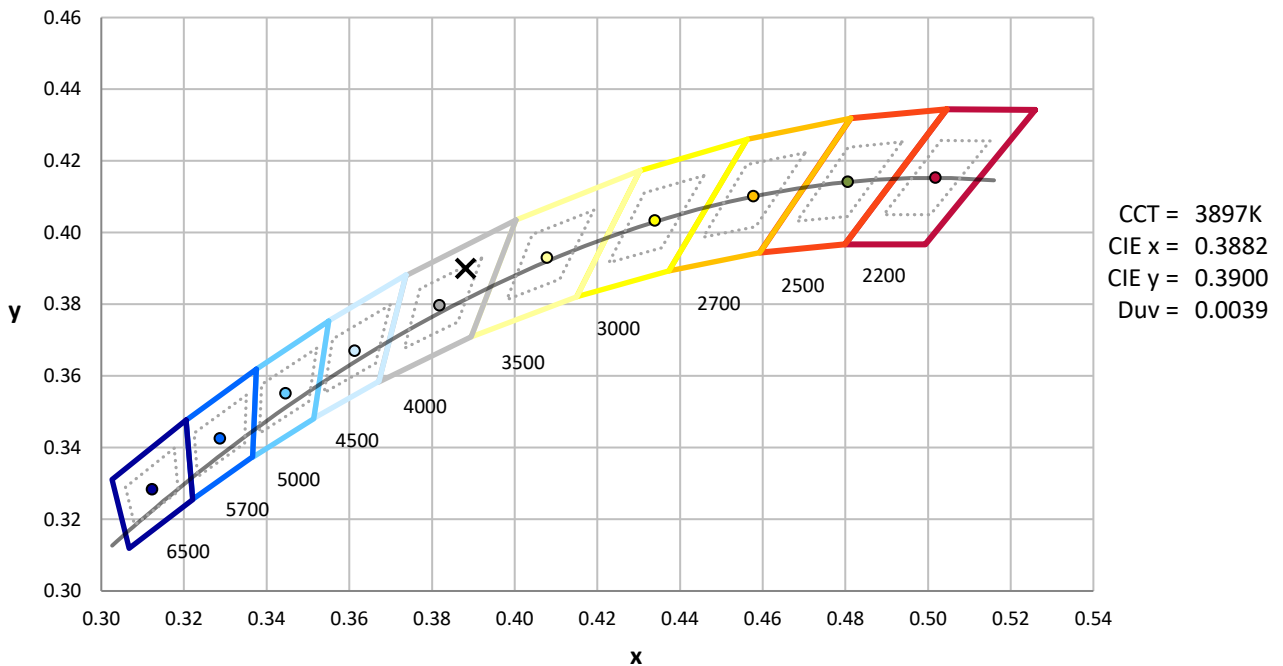
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



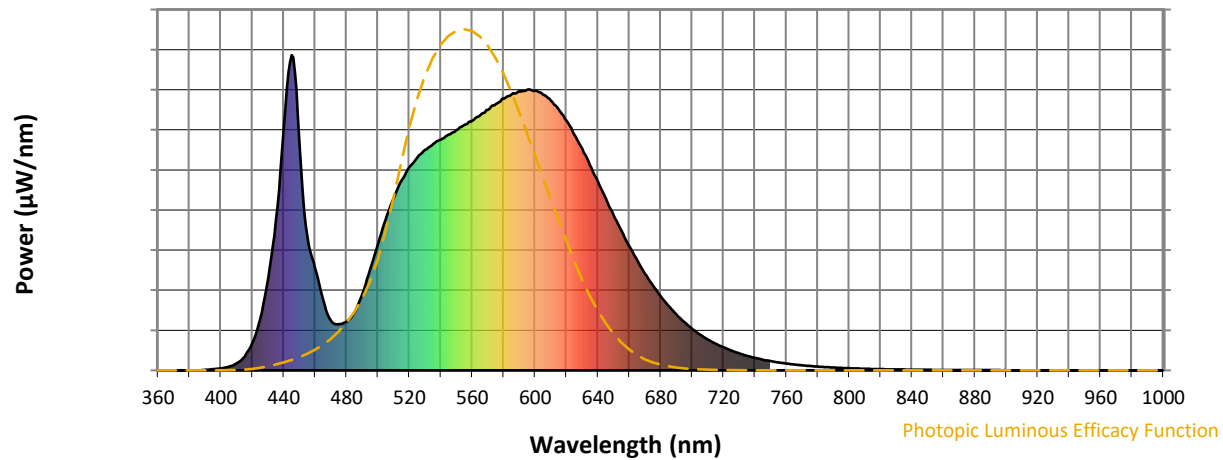
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

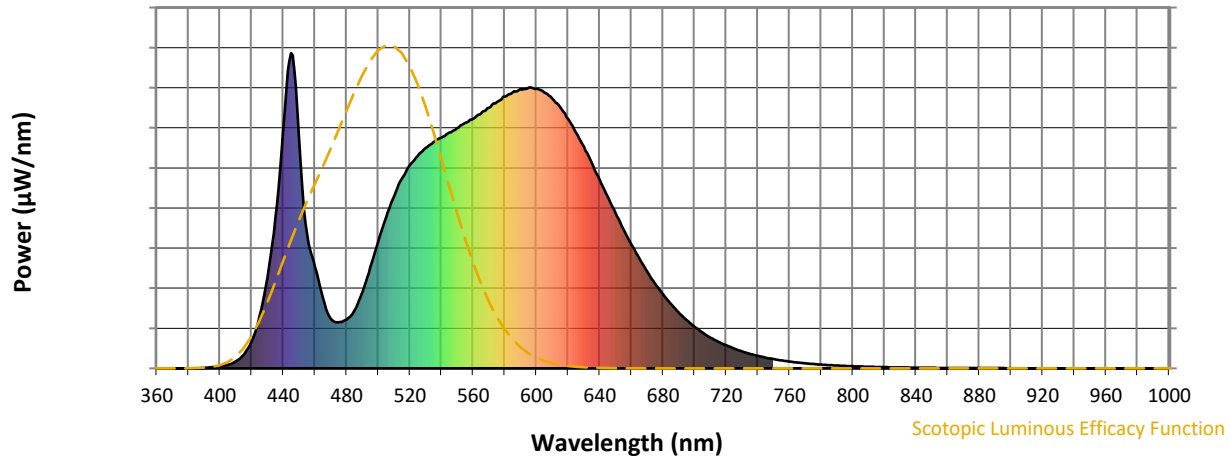


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength



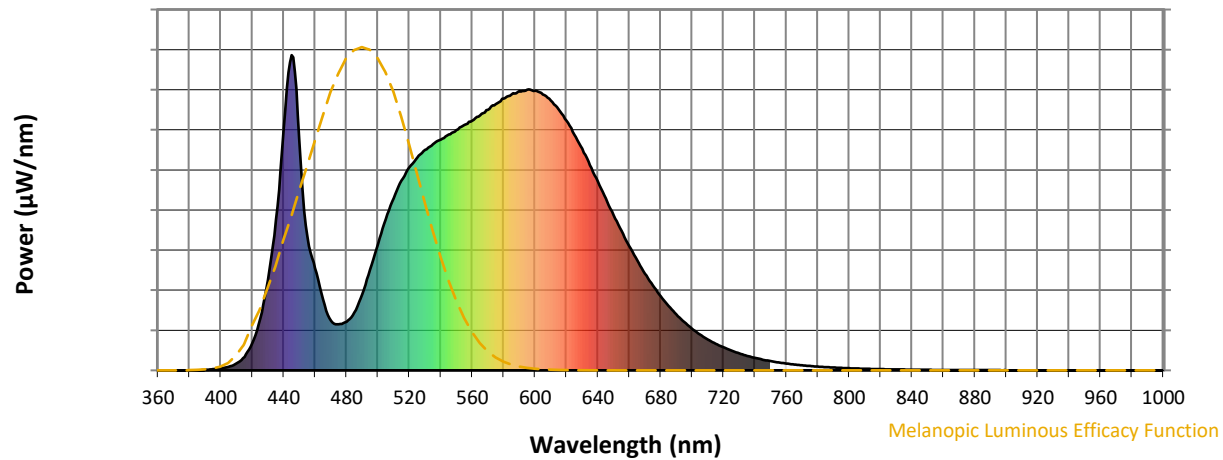
Scotopic Lumens: NR

S/P: 1.57

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.06

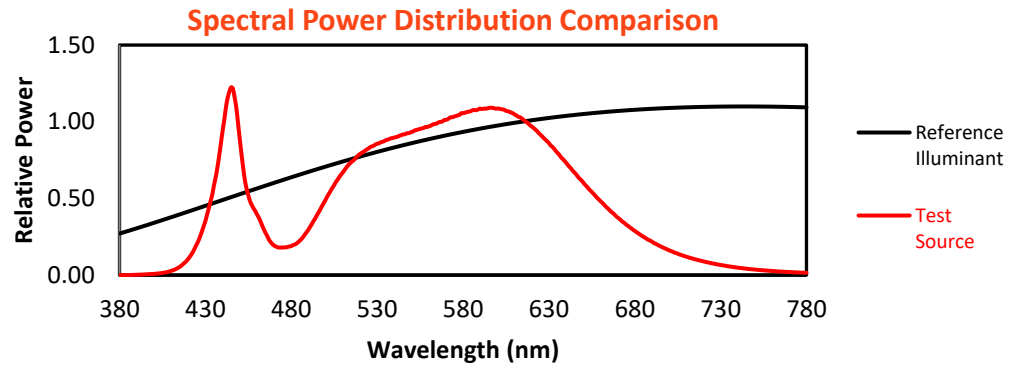
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

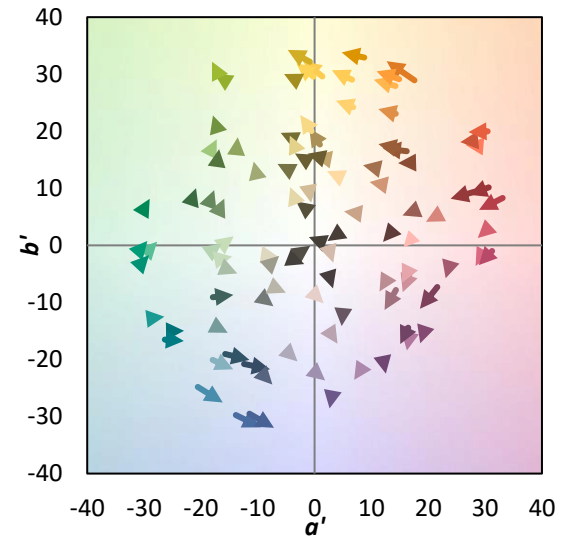
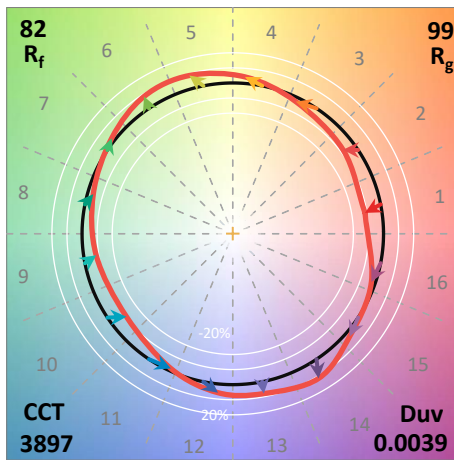
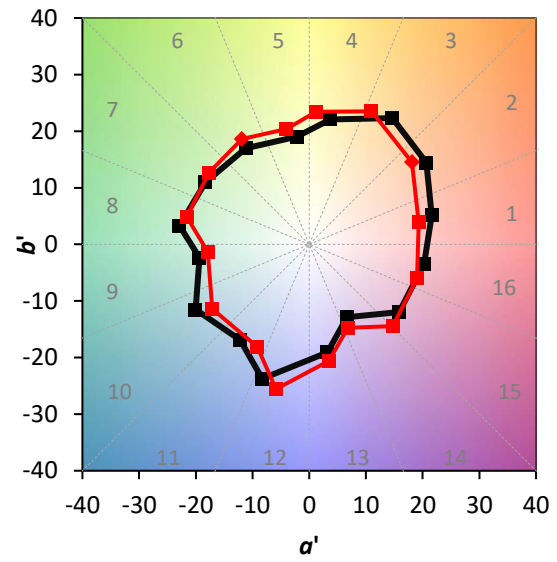
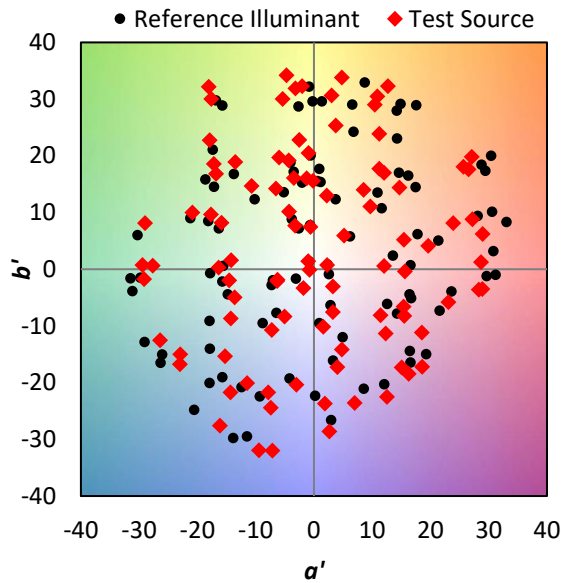
TM-30-18

Summary

$R_f = 81.8$
 $R_g = 98.6$
 $CIE R_a = 80.2$
 $R_9 = 6.7$

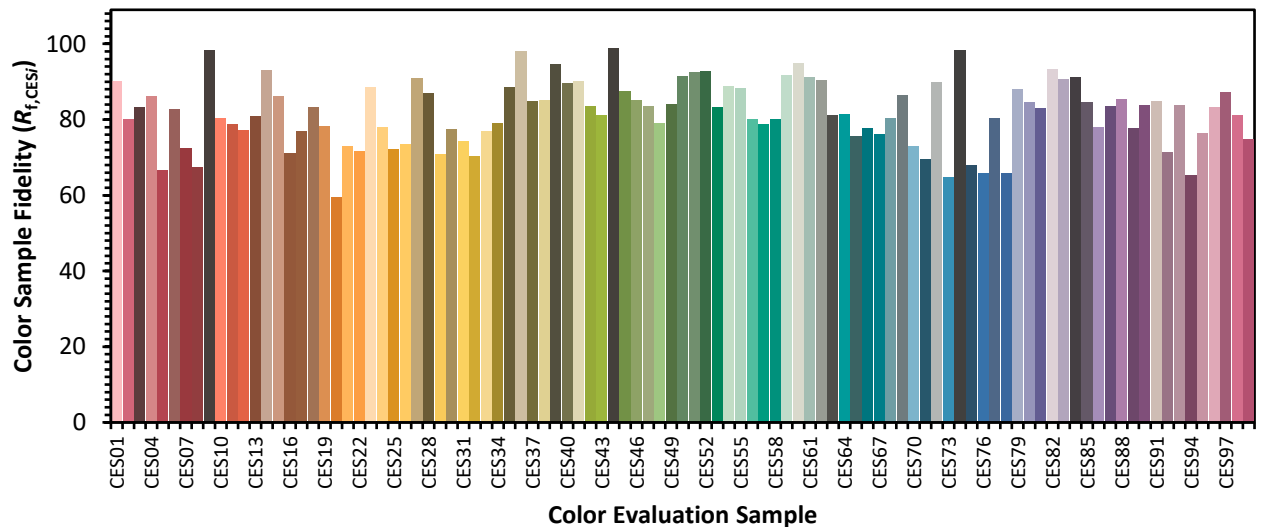


Color Vector Graphics

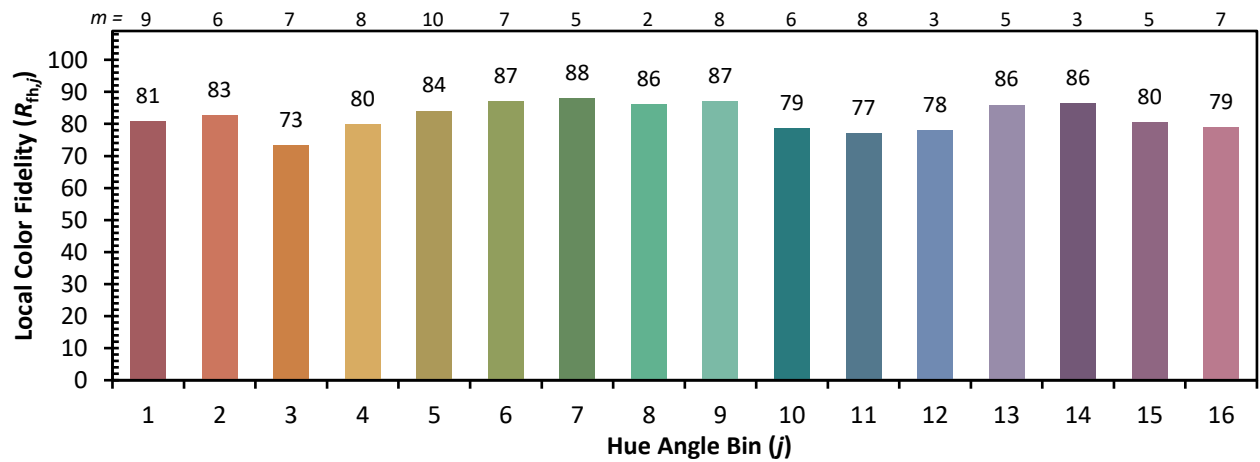
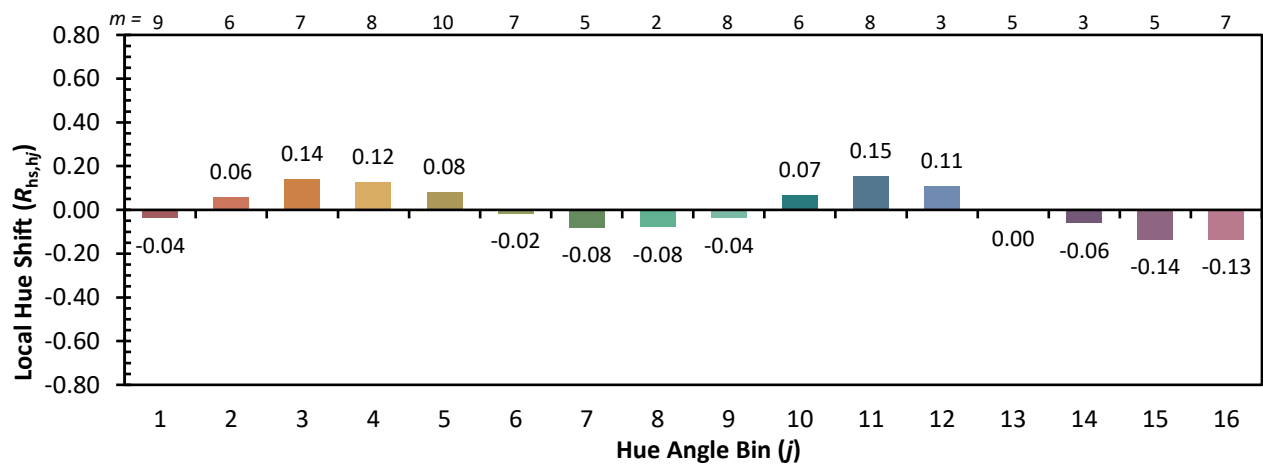
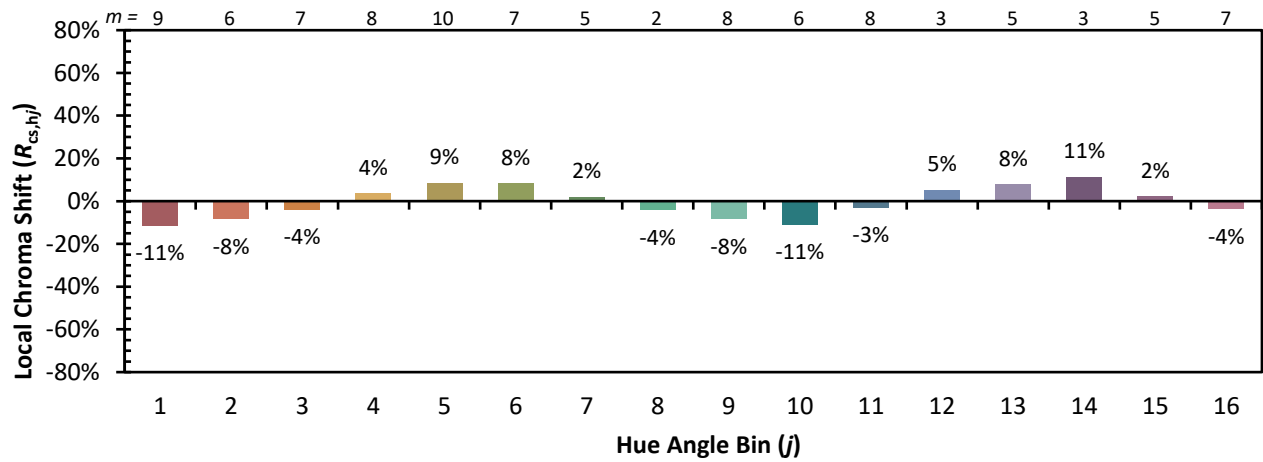


Individual Sample Fidelity Index ($R_{f,i}$)

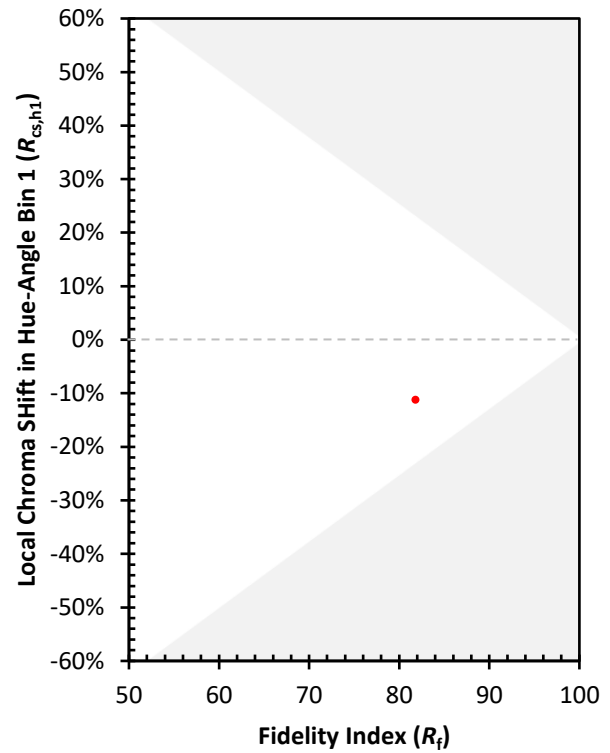
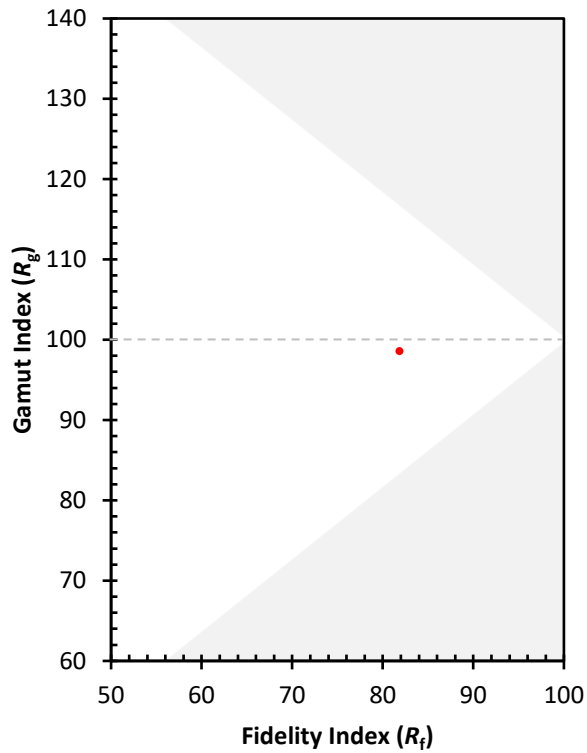
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)