

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: P1049481

Luminaire Tested: **GALN-SA6A-740-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049481
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19438.9 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

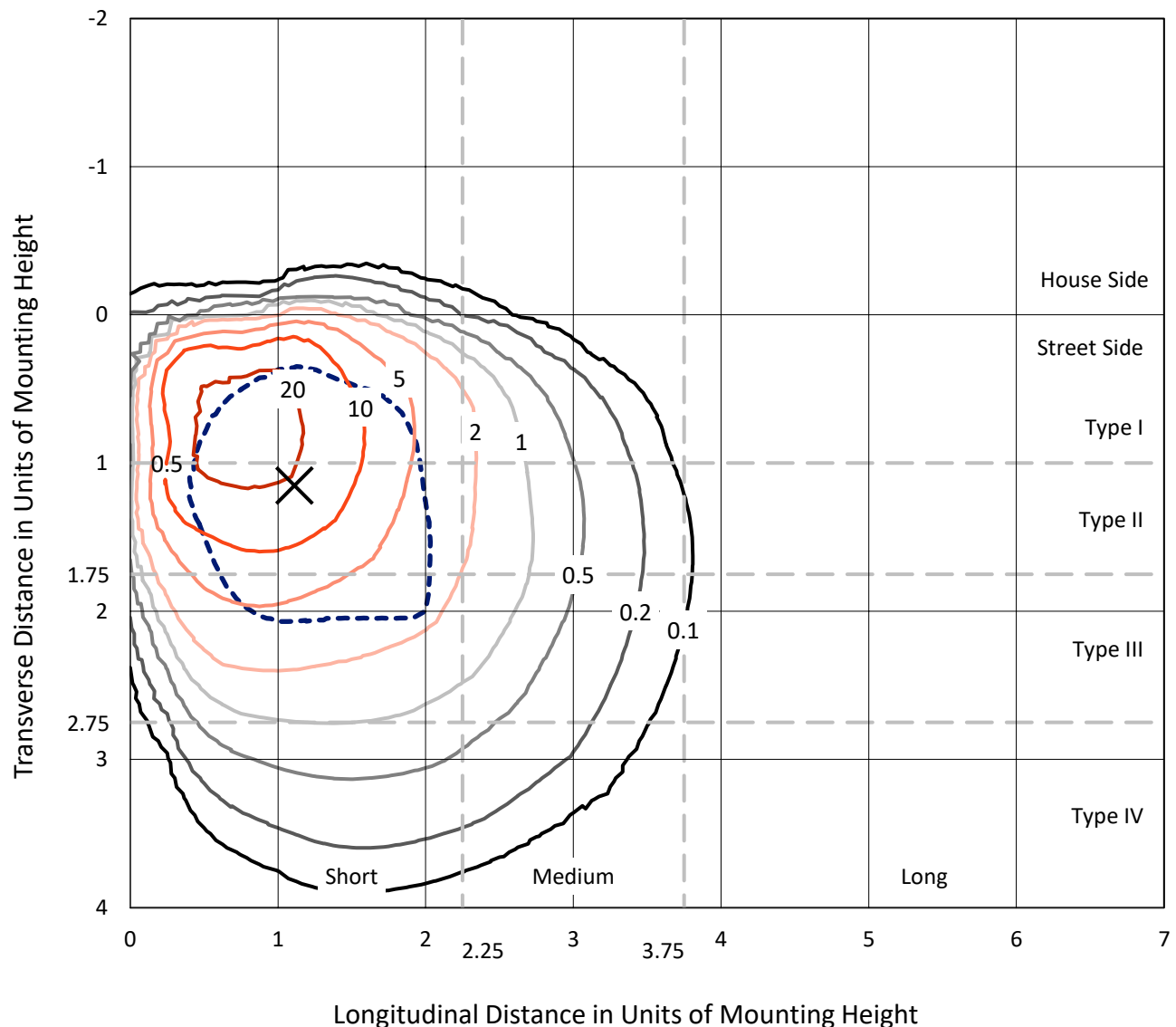
Input Watts (W): 162.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

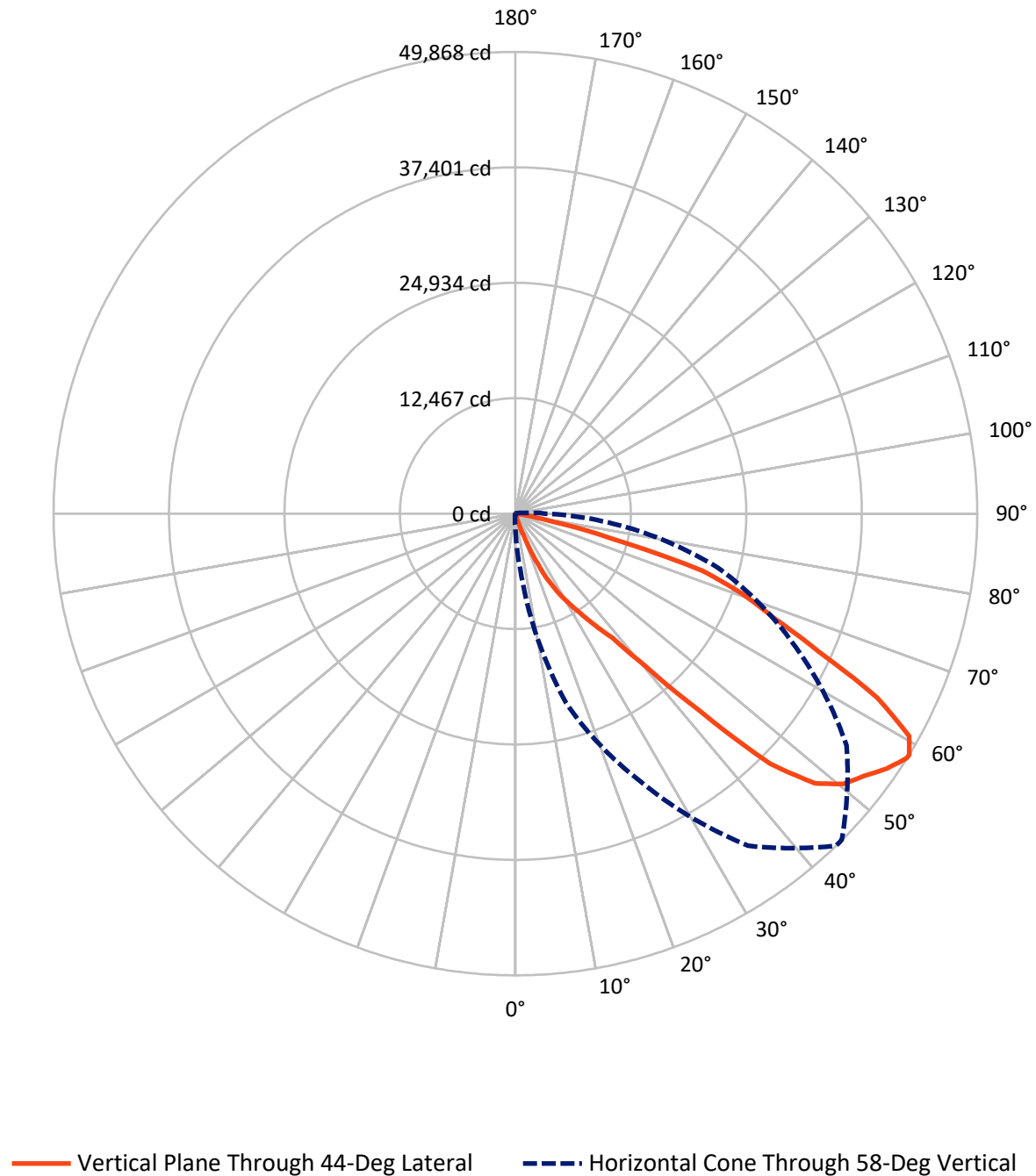
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.8 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	132.7	0.0	132.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	19306.2	0.0	19306.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	19438.9	0.0	19438.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.0
10°-20°	42.6	0.2
20°-30°	460.5	2.4
30°-40°	1361.9	7.0
40°-50°	4059.2	20.9
50°-60°	6440.9	33.1
60°-70°	5372.5	27.6
70°-80°	1657.0	8.5
80°-90°	36.8	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°	19438.9	100.0
0°-180°	19438.9	100.0



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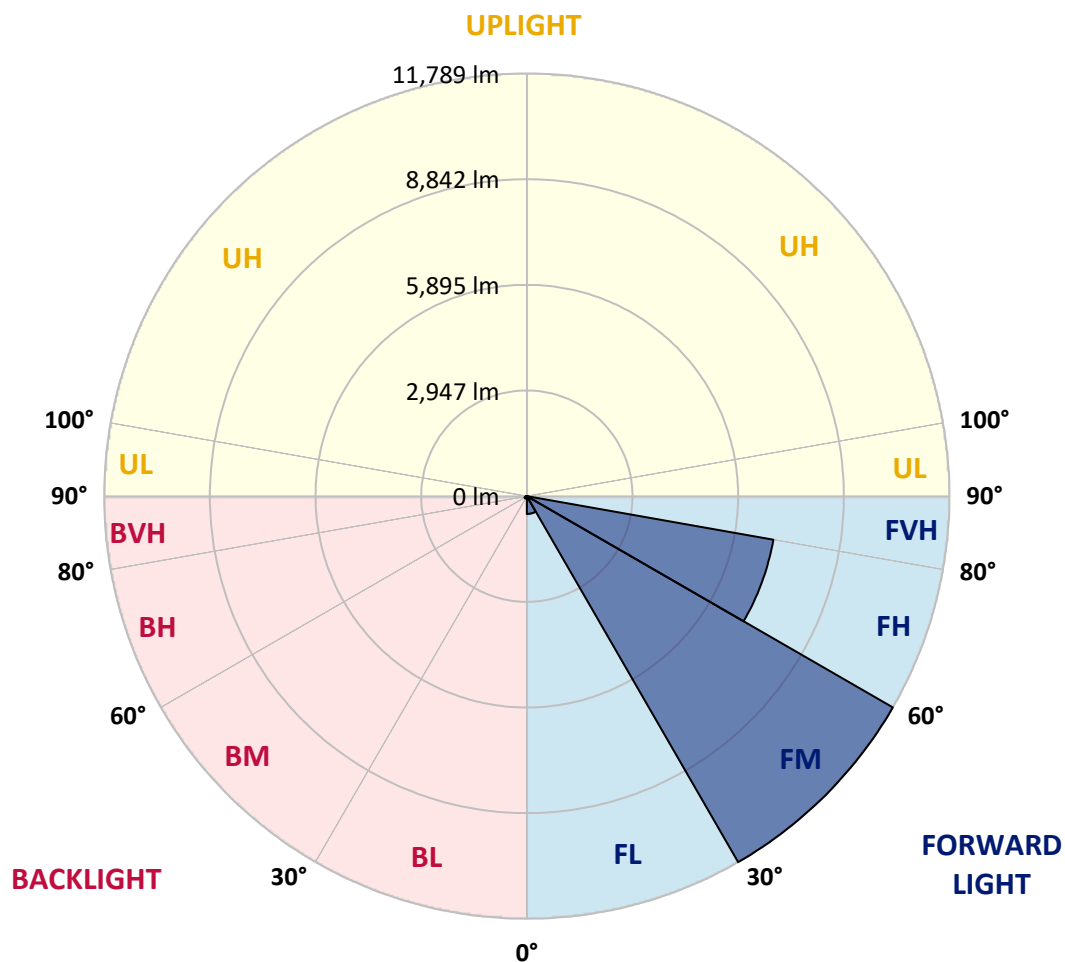
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	497.8	2.6			
FM	(30°-60°)	11789.3	60.6			
FH	(60°-80°)	6984.1	35.9			G3/7500
FVH	(80°-90°)	35.0	0.2			G1/100
BL	(0°-30°)	13.0	0.1	B0/110		
BM	(30°-60°)	72.6	0.4	B0/220		
BH	(60°-80°)	45.3	0.2	B0/110		G0/110
BVH	(80°-90°)	1.8	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
2.5°	110.1	110.1	105.7	99.9	94.0	88.1	86.6	83.7	82.2	80.8
5°	114.5	114.5	113.1	108.7	102.8	98.4	98.4	94.0	91.0	88.1
7.5°	117.5	118.9	121.9	120.4	117.5	113.1	113.1	110.1	105.7	98.4
10°	121.9	126.3	132.2	135.1	136.6	136.6	135.1	133.6	126.3	116.0
12.5°	126.3	135.1	149.8	164.5	173.3	185.0	183.6	180.6	161.5	139.5
15°	135.1	148.3	179.2	221.7	287.8	328.9	345.1	330.4	267.3	188.0
17.5°	145.4	167.4	259.9	464.0	760.7	901.6	986.8	917.8	607.9	356.8
20°	155.7	204.1	483.1	1202.7	1973.6	2434.7	2562.4	2362.7	1516.9	679.9
22.5°	173.3	286.3	979.5	2486.1	4252.6	4944.3	5074.9	4436.2	2864.9	1342.2
25°	210.0	415.6	1688.7	4051.4	6346.6	7514.0	7459.7	6622.7	4647.6	2143.9
27.5°	262.9	605.0	2553.6	5756.3	8352.5	9381.9	9505.2	8470.0	6195.4	3152.8
30°	339.2	838.5	3481.7	7122.0	9960.5	11073.5	11094.1	10023.6	7580.1	4038.2
32.5°	412.6	1058.7	4293.7	8442.1	11544.9	12765.2	12856.2	11539.0	8613.9	4960.4
35°	468.4	1202.7	5116.1	9602.2	13142.6	14824.0	14818.1	13254.2	9838.6	5784.2
37.5°	472.8	1346.6	5860.6	10788.7	15166.1	17048.7	17235.1	15511.2	11318.8	6803.3
40°	462.6	1508.1	6803.3	12638.9	18812.3	21700.7	21865.2	19691.9	14288.0	8547.8
42.5°	474.3	1788.6	8333.4	16056.0	24866.7	29015.0	29332.2	27047.3	19746.2	12107.3
45°	536.0	2315.7	11539.0	21772.6	33496.7	38554.0	38448.3	35157.5	26097.2	17525.9
47.5°	740.1	3606.5	16290.9	27336.6	39012.2	43515.9	43607.0	39584.9	29803.6	21691.9
50°	1138.0	5518.4	20283.6	30277.9	41383.7	45902.1	45817.0	41169.3	31211.8	23743.3
52.5°	1480.2	6901.7	22286.6	31310.2	41687.7	47081.3	47075.4	41586.4	31430.6	23919.5
55°	1565.4	7006.0	22302.7	31366.0	42369.1	48624.6	48818.5	42612.8	31714.0	23150.0
57.5°	1531.6	6202.7	21371.8	31689.1	43582.0	49818.5	49828.8	43607.0	32433.6	22678.7
58°	1502.2	6076.4	21183.8	31872.6	43790.5	49868.4	49843.4	43652.5	33019.5	22661.0
60°	1337.8	5276.1	20451.0	32341.0	43480.7	48843.4	48609.9	42658.3	32932.8	22480.4
62.5°	1051.4	4116.1	19730.0	31799.2	40159.0	43881.6	43978.5	37766.9	30022.4	21427.6
65°	837.0	3067.6	18226.3	27893.1	33069.4	36035.6	36396.9	30711.1	25059.0	18144.1
67.5°	666.7	2217.4	15289.5	22207.3	26167.7	30075.2	30338.1	25784.4	19414.3	13901.8
70°	541.9	1499.3	10553.7	16241.0	21583.2	25976.8	25993.0	21420.2	14490.6	9108.8
72.5°	480.2	1038.2	6126.4	11844.5	17500.9	21167.6	20740.3	17382.0	11136.7	5395.1
75°	415.6	688.7	3004.4	7240.9	10611.0	10682.9	10845.9	8063.2	5566.9	2565.4
77.5°	342.1	489.0	1183.6	1978.0	3182.1	4073.5	4224.7	3201.2	1851.7	631.4
80°	235.0	232.0	318.7	606.5	910.4	1141.0	1064.6	823.8	484.6	242.3
82.5°	101.3	110.1	143.9	173.3	141.0	136.6	130.7	83.7	64.6	49.9
85°	32.3	29.4	30.8	30.8	25.0	19.1	19.1	8.8	0.0	0.0
87.5°	16.2	13.2	13.2	11.7	7.3	2.9	1.5	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°
85.2	0°	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
79.3	2.5°	77.8	77.8	74.9	72.0	70.5	67.5	66.1	64.6	63.1	61.7
85.2	5°	82.2	80.8	76.4	72.0	67.5	63.1	60.2	57.3	54.3	52.9
94.0	7.5°	89.6	86.6	77.8	70.5	64.6	58.7	55.8	51.4	48.5	44.1
104.3	10°	98.4	92.5	80.8	72.0	63.1	55.8	51.4	47.0	42.6	36.7
118.9	12.5°	110.1	99.9	85.2	70.5	60.2	51.4	47.0	41.1	36.7	32.3
138.0	15°	120.4	107.2	86.6	70.5	57.3	47.0	41.1	35.2	30.8	25.0
173.3	17.5°	135.1	113.1	85.2	66.1	52.9	41.1	35.2	30.8	23.5	14.7
257.0	20°	160.1	117.5	82.2	61.7	45.5	33.8	26.4	20.6	10.3	2.9
386.2	22.5°	199.7	129.2	79.3	55.8	39.6	26.4	17.6	7.3	0.0	0.0
587.4	25°	276.1	149.8	79.3	52.9	35.2	19.1	5.9	0.0	0.0	0.0
834.1	27.5°	367.1	177.7	79.3	45.5	27.9	10.3	0.0	0.0	0.0	0.0
1136.6	30°	459.6	208.5	79.3	39.6	22.0	1.5	0.0	0.0	0.0	0.0
1399.4	32.5°	547.7	235.0	80.8	33.8	14.7	0.0	0.0	0.0	0.0	0.0
1763.6	35°	637.3	239.4	79.3	29.4	8.8	0.0	0.0	0.0	0.0	0.0
2210.0	37.5°	751.8	230.5	74.9	26.4	4.4	0.0	0.0	0.0	0.0	0.0
2907.5	40°	925.1	235.0	70.5	25.0	1.5	0.0	0.0	0.0	0.0	0.0
4151.3	42.5°	1245.2	254.0	64.6	25.0	0.0	0.0	0.0	0.0	0.0	0.0
6612.4	45°	2152.7	340.7	58.7	26.4	0.0	0.0	0.0	0.0	0.0	0.0
9926.7	47.5°	3561.0	612.3	57.3	26.4	0.0	0.0	0.0	0.0	0.0	0.0
11957.6	50°	4544.8	770.9	60.2	27.9	0.0	0.0	0.0	0.0	0.0	0.0
12211.6	52.5°	4537.5	859.0	63.1	29.4	5.9	0.0	0.0	0.0	0.0	0.0
11255.6	55°	4033.8	875.2	67.5	32.3	19.1	0.0	0.0	0.0	0.0	0.0
9672.6	57.5°	3371.6	798.8	77.8	39.6	35.2	0.0	0.0	0.0	0.0	0.0
9424.5	58°	3254.1	763.6	80.8	41.1	38.2	0.0	0.0	0.0	0.0	0.0
8174.8	60°	2666.7	622.6	102.8	51.4	51.4	0.0	0.0	0.0	0.0	0.0
6702.0	62.5°	1841.4	543.3	117.5	66.1	52.9	0.0	0.0	0.0	0.0	0.0
4941.3	65°	1302.5	490.5	127.8	70.5	42.6	0.0	0.0	0.0	0.0	0.0
3511.1	67.5°	973.6	452.3	141.0	72.0	22.0	0.0	0.0	0.0	0.0	0.0
2202.7	70°	746.0	424.4	173.3	76.4	5.9	0.0	0.0	0.0	0.0	0.0
1312.8	72.5°	607.9	392.1	210.0	79.3	0.0	0.0	0.0	0.0	0.0	0.0
787.1	75°	503.7	353.9	202.6	86.6	0.0	0.0	0.0	0.0	0.0	0.0
420.0	77.5°	334.8	274.6	185.0	86.6	0.0	0.0	0.0	0.0	0.0	0.0
149.8	80°	117.5	108.7	143.9	76.4	0.0	0.0	0.0	0.0	0.0	0.0
30.8	82.5°	17.6	14.7	20.6	26.4	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°
85.2	0°	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
60.2	2.5°	60.2	60.2	58.7	60.2	60.2	63.1	70.5	80.8	92.5	96.9
51.4	5°	49.9	48.5	47.0	47.0	47.0	51.4	57.3	69.0	82.2	88.1
42.6	7.5°	41.1	39.6	38.2	36.7	36.7	39.6	47.0	60.2	73.4	79.3
35.2	10°	33.8	30.8	29.4	27.9	27.9	30.8	38.2	51.4	66.1	72.0
29.4	12.5°	27.9	23.5	20.6	19.1	17.6	22.0	29.4	41.1	57.3	64.6
22.0	15°	19.1	14.7	10.3	8.8	7.3	11.7	19.1	32.3	48.5	57.3
11.7	17.5°	10.3	4.4	1.5	0.0	0.0	2.9	8.8	23.5	39.6	47.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	29.4	36.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	17.6	25.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	13.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
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	4.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	11.7
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°
85.2	0°	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
101.3	2.5°	104.3	102.8	99.9	96.9	96.9	96.9	101.3	105.7	110.1	110.1
91.0	5°	96.9	96.9	95.4	92.5	92.5	94.0	99.9	107.2	113.1	114.5
83.7	7.5°	89.6	92.5	89.6	88.1	89.6	91.0	96.9	105.7	114.5	117.5
77.8	10°	85.2	86.6	86.6	85.2	85.2	88.1	94.0	105.7	117.5	121.9
70.5	12.5°	79.3	82.2	80.8	80.8	80.8	83.7	91.0	104.3	120.4	126.3
63.1	15°	73.4	77.8	77.8	76.4	76.4	77.8	88.1	102.8	124.8	135.1
54.3	17.5°	67.5	72.0	73.4	70.5	70.5	73.4	83.7	102.8	127.8	145.4
44.1	20°	55.8	63.1	67.5	63.1	63.1	66.1	76.4	96.9	129.2	155.7
32.3	22.5°	44.1	51.4	57.3	55.8	55.8	57.3	70.5	92.5	130.7	173.3
19.1	25°	32.3	39.6	44.1	47.0	47.0	51.4	64.6	89.6	136.6	210.0
8.8	27.5°	19.1	27.9	33.8	36.7	38.2	44.1	60.2	86.6	146.8	262.9
0.0	30°	8.8	16.2	23.5	29.4	29.4	39.6	55.8	83.7	160.1	339.2
0.0	32.5°	0.0	7.3	11.7	20.6	22.0	32.3	51.4	80.8	179.2	412.6
0.0	35°	0.0	0.0	5.9	16.2	16.2	26.4	47.0	77.8	208.5	468.4
0.0	37.5°	0.0	0.0	0.0	11.7	13.2	23.5	45.5	76.4	214.4	472.8
0.0	40°	0.0	0.0	0.0	8.8	10.3	22.0	45.5	77.8	193.8	462.6
0.0	42.5°	0.0	0.0	0.0	5.9	7.3	22.0	45.5	80.8	174.7	474.3
0.0	45°	0.0	0.0	0.0	4.4	5.9	23.5	44.1	79.3	164.5	536.0
0.0	47.5°	0.0	0.0	0.0	5.9	8.8	23.5	42.6	77.8	165.9	740.1
0.0	50°	0.0	0.0	0.0	7.3	10.3	23.5	44.1	74.9	182.1	1138.0
0.0	52.5°	0.0	0.0	0.0	5.9	8.8	26.4	48.5	73.4	198.2	1480.2
0.0	55°	0.0	0.0	0.0	1.5	4.4	33.8	52.9	73.4	223.2	1565.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	38.2	60.2	77.8	264.3	1531.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	38.2	61.7	77.8	267.3	1502.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	38.2	67.5	86.6	287.8	1337.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	32.3	80.8	108.7	299.6	1051.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	26.4	95.4	118.9	308.4	837.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	25.0	98.4	120.4	312.8	666.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	26.4	96.9	129.2	327.5	541.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	29.4	88.1	142.4	327.5	480.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	30.8	82.2	160.1	298.1	415.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	29.4	80.8	186.5	265.8	342.1
0.0	80°	2.9	4.4	4.4	2.9	2.9	25.0	79.3	189.4	226.1	235.0
1.5	82.5°	8.8	11.7	10.3	7.3	7.3	22.0	70.5	158.6	117.5	101.3
8.8	85°	16.2	19.1	19.1	16.2	16.2	20.6	44.1	57.3	39.6	32.3
16.2	87.5°	22.0	25.0	25.0	22.0	22.0	20.6	19.1	17.6	16.2	16.2
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

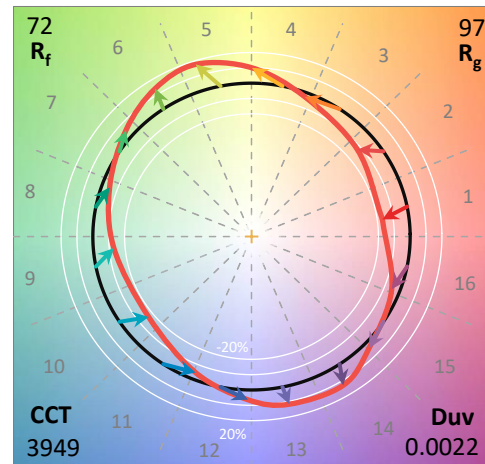
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

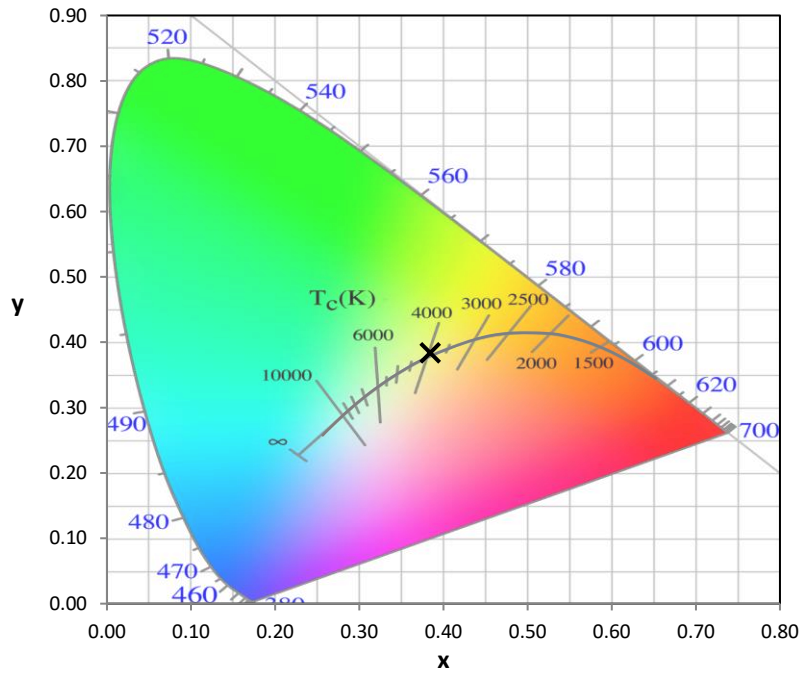
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

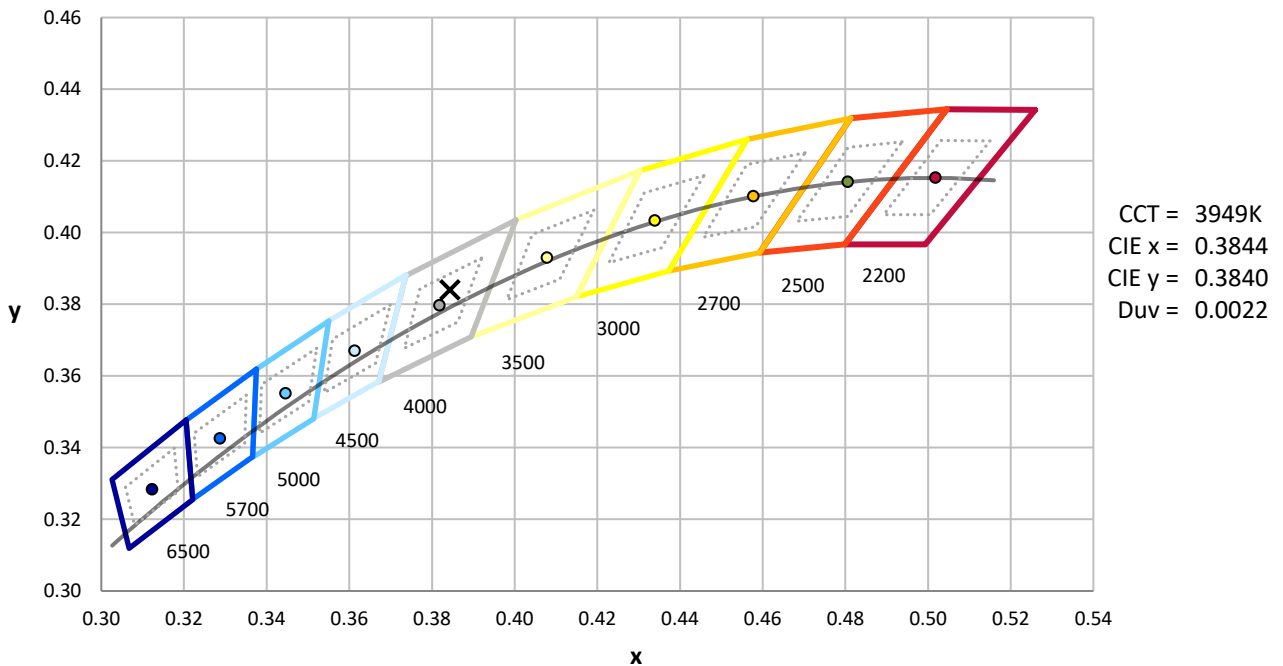
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



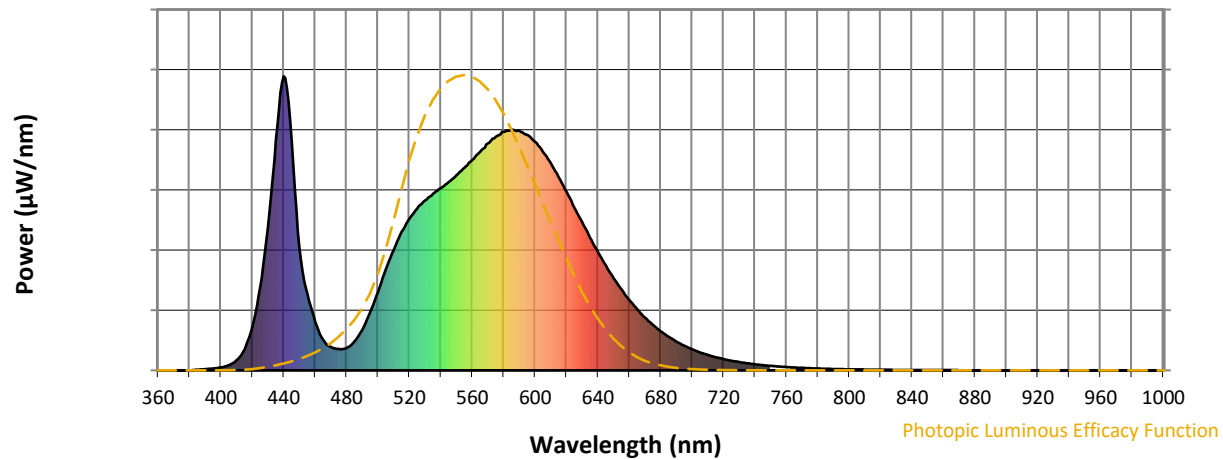
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

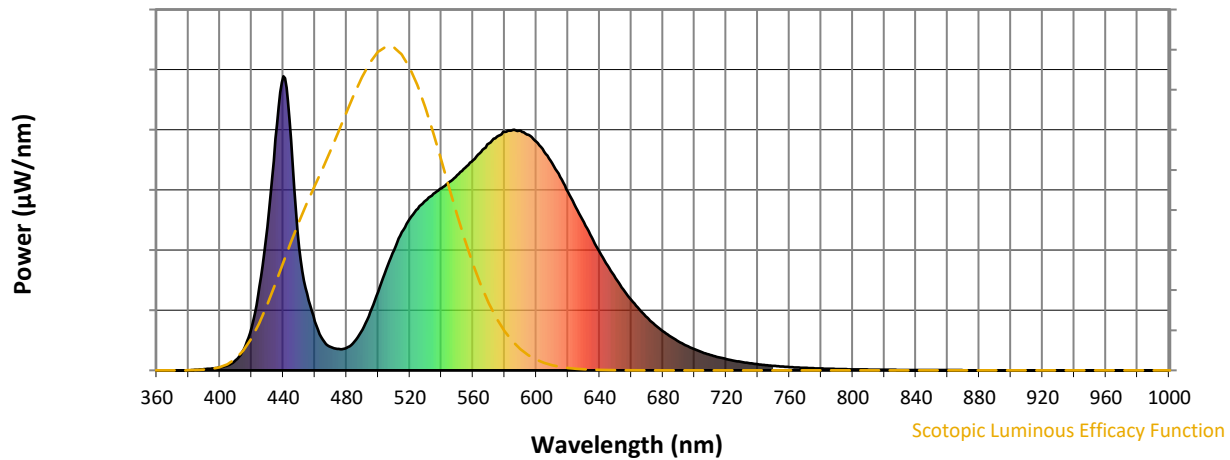


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



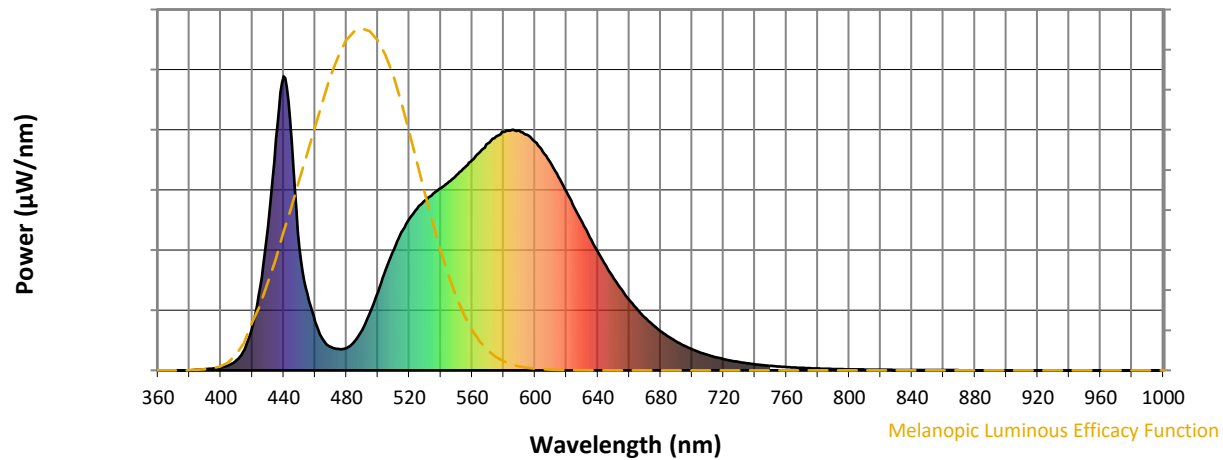
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

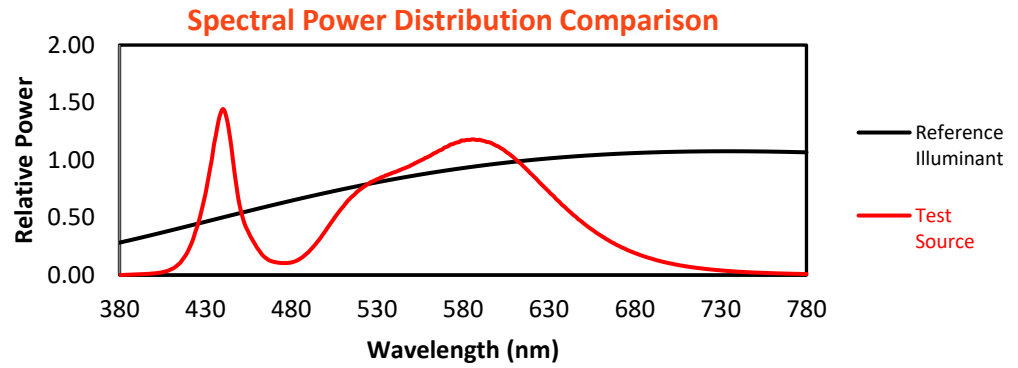
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

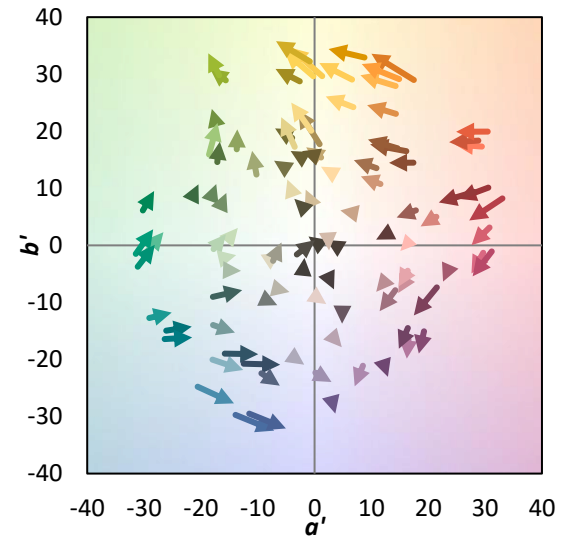
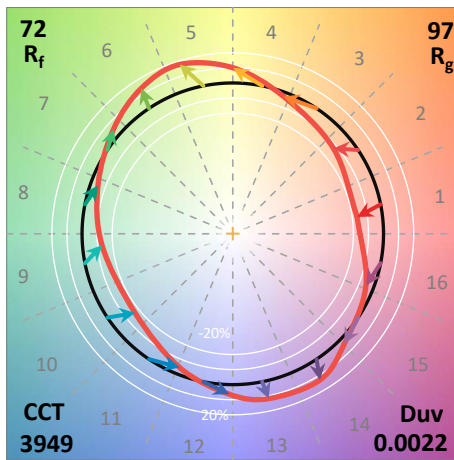
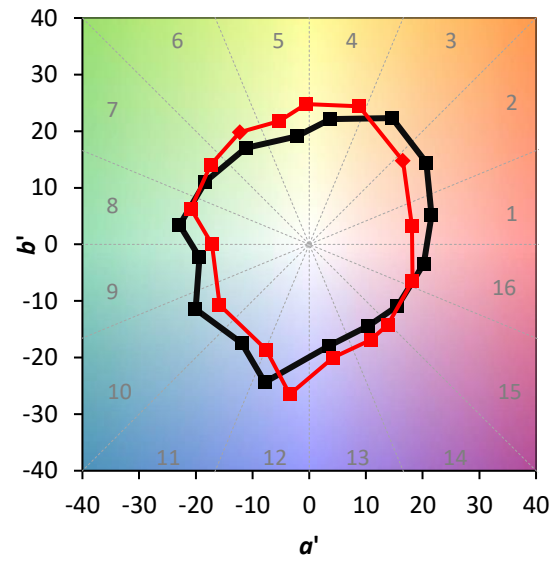
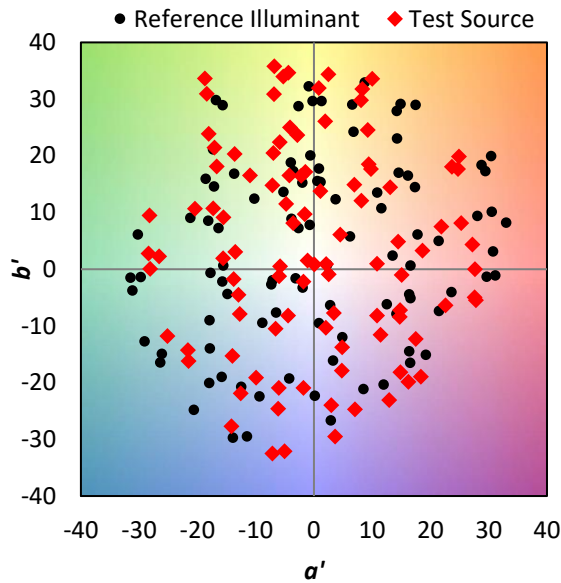
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 $CIE R_a = 70.7$
 $R_g = -36.7$

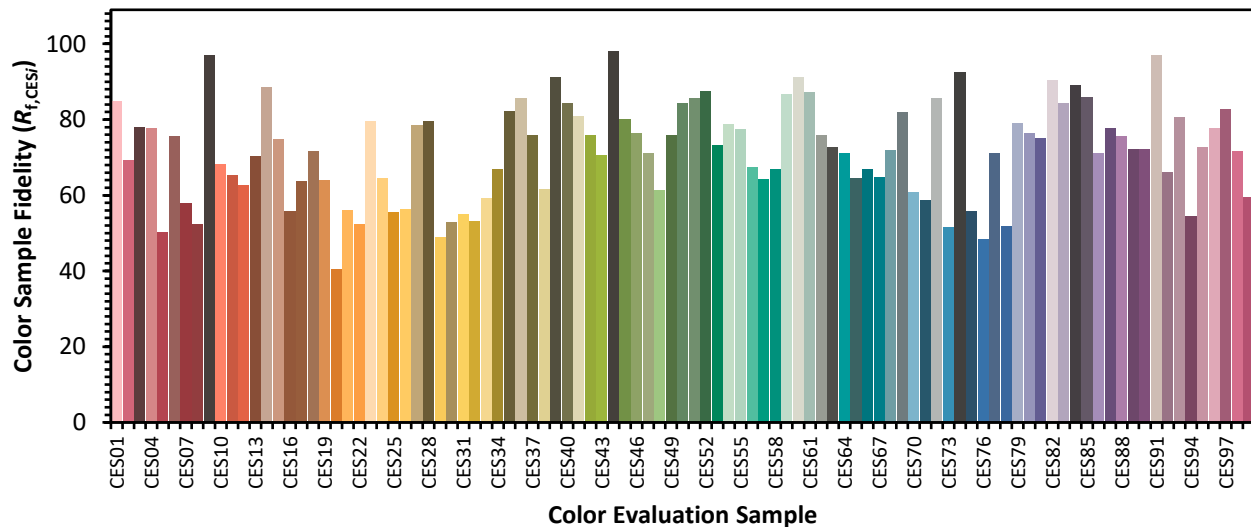


Color Vector Graphics

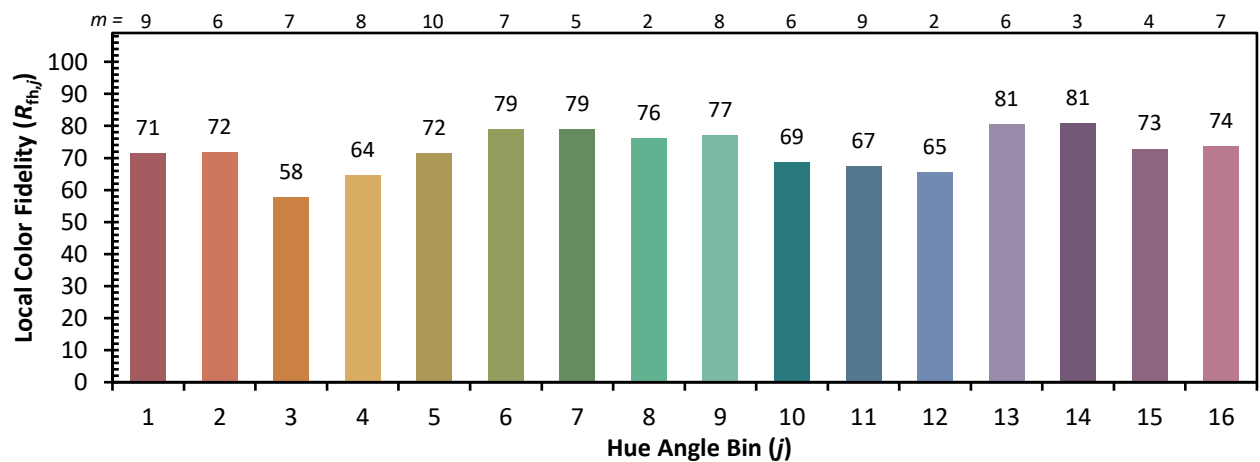
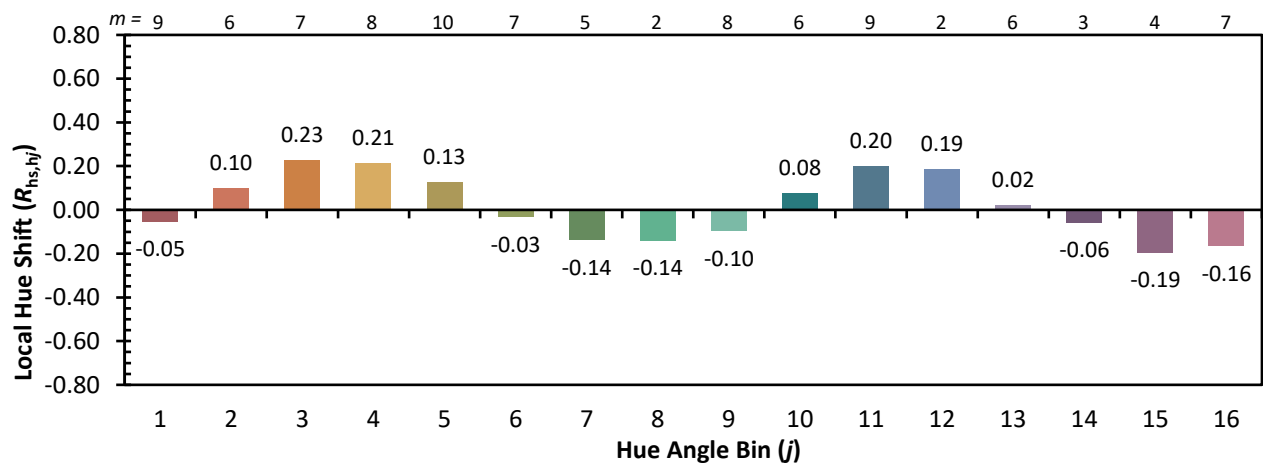
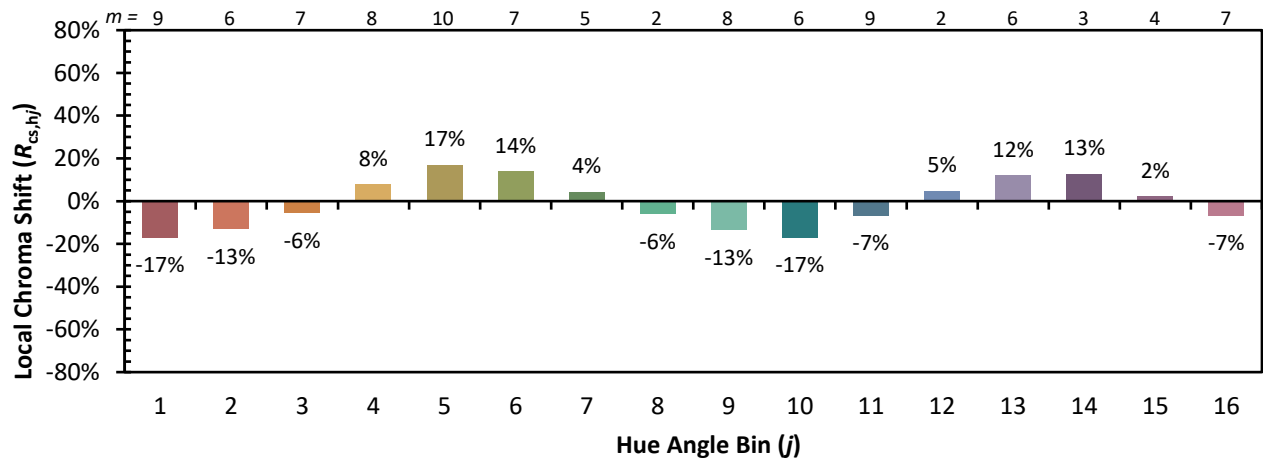


Individual Sample Fidelity Index ($R_{f,i}$)

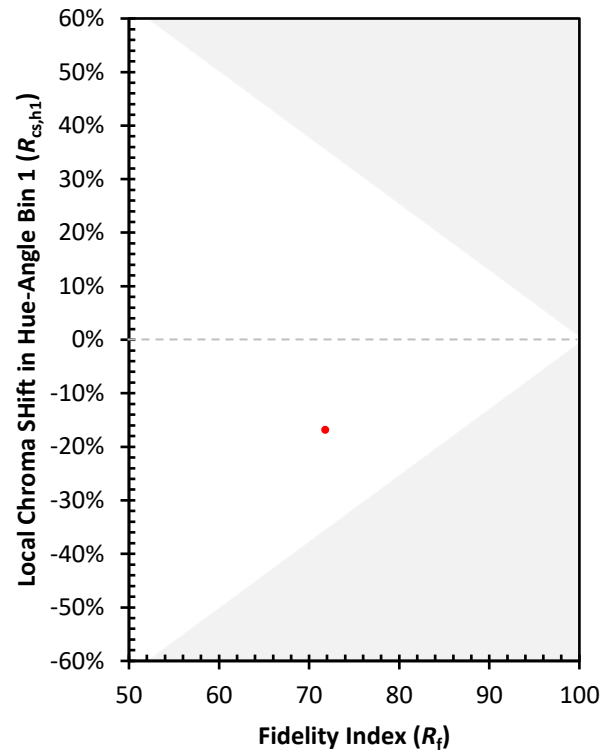
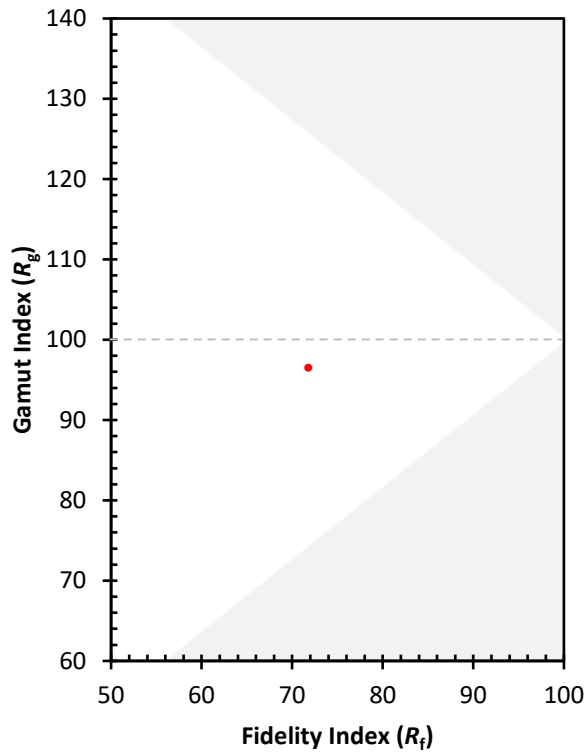
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)