

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: P1049611

Luminaire Tested: **GALN-SA2C-735-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049611
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

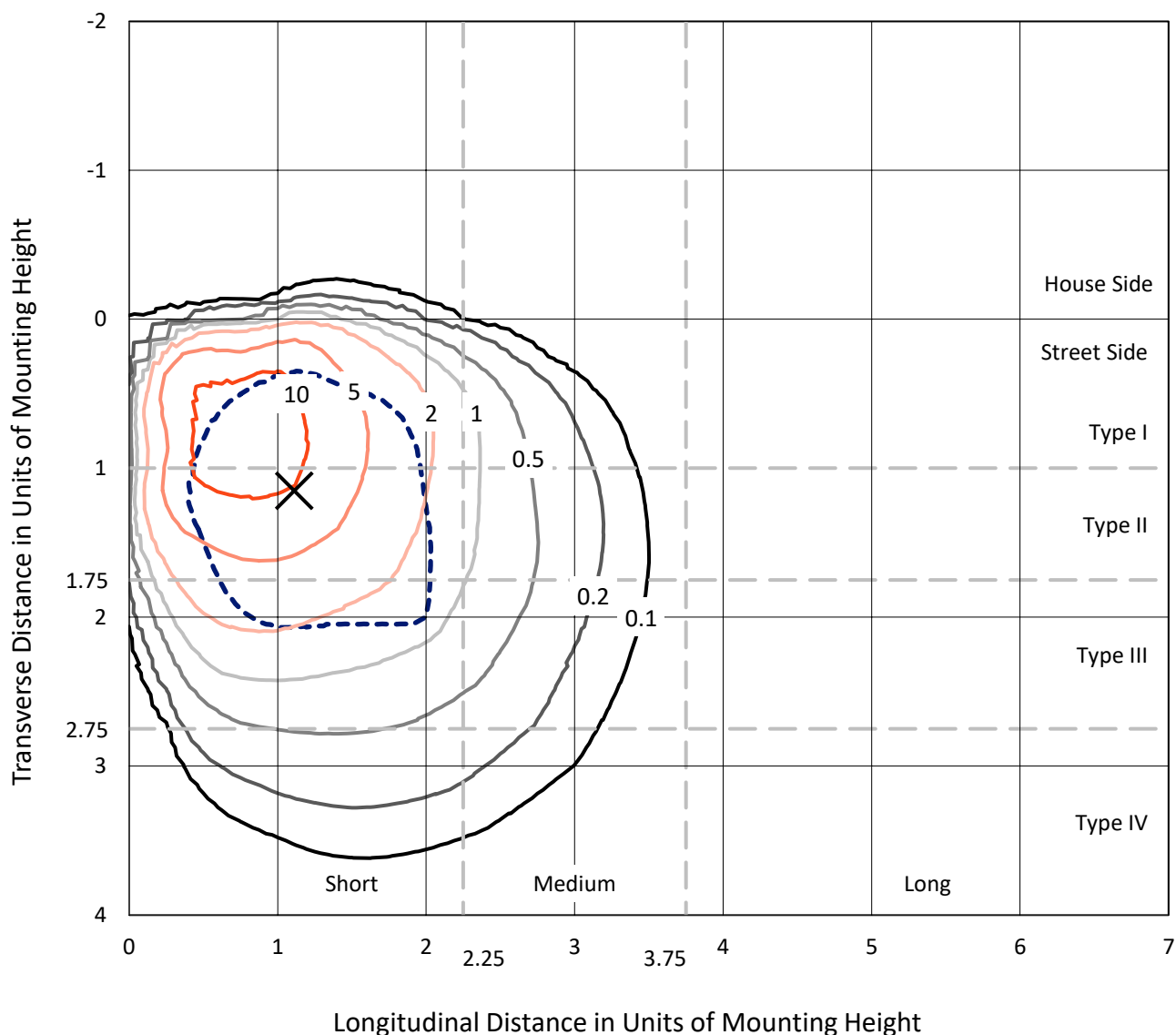
Lumens per Lamp: N/A
Luminaire Lumens: 10188.9 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 96.2
Input Voltage (V): 120
Input Current (A_{in}): 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

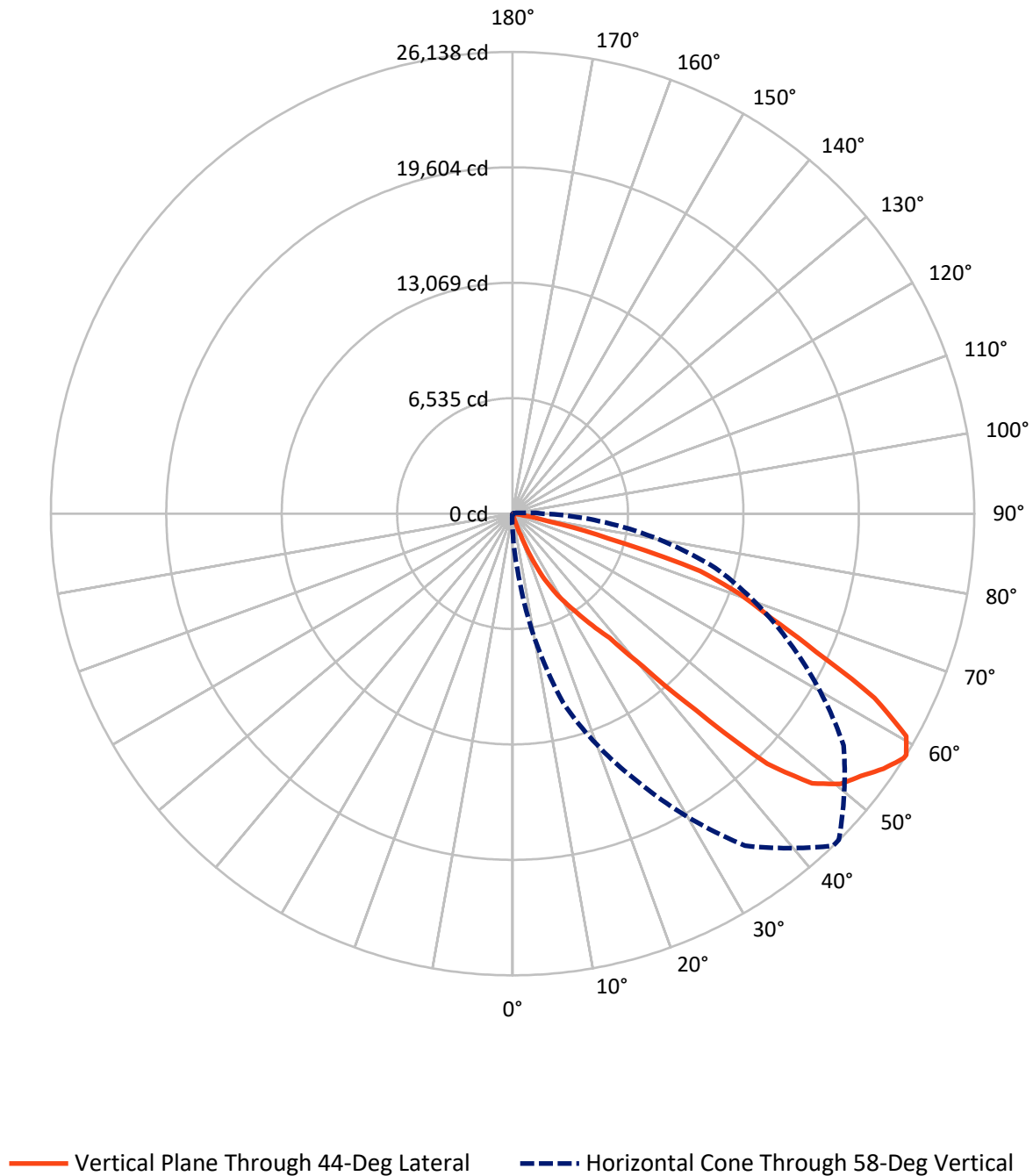
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.7 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	69.6	0.0	69.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	10119.3	0.0	10119.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	10188.9	0.0	10188.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.0
10°-20°	22.3	0.2
20°-30°	241.4	2.4
30°-40°	713.8	7.0
40°-50°	2127.6	20.9
50°-60°	3376.0	33.1
60°-70°	2816.0	27.6
70°-80°	868.5	8.5
80°-90°	19.3	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°	10188.9	100.0
0°-180°	10188.9	100.0



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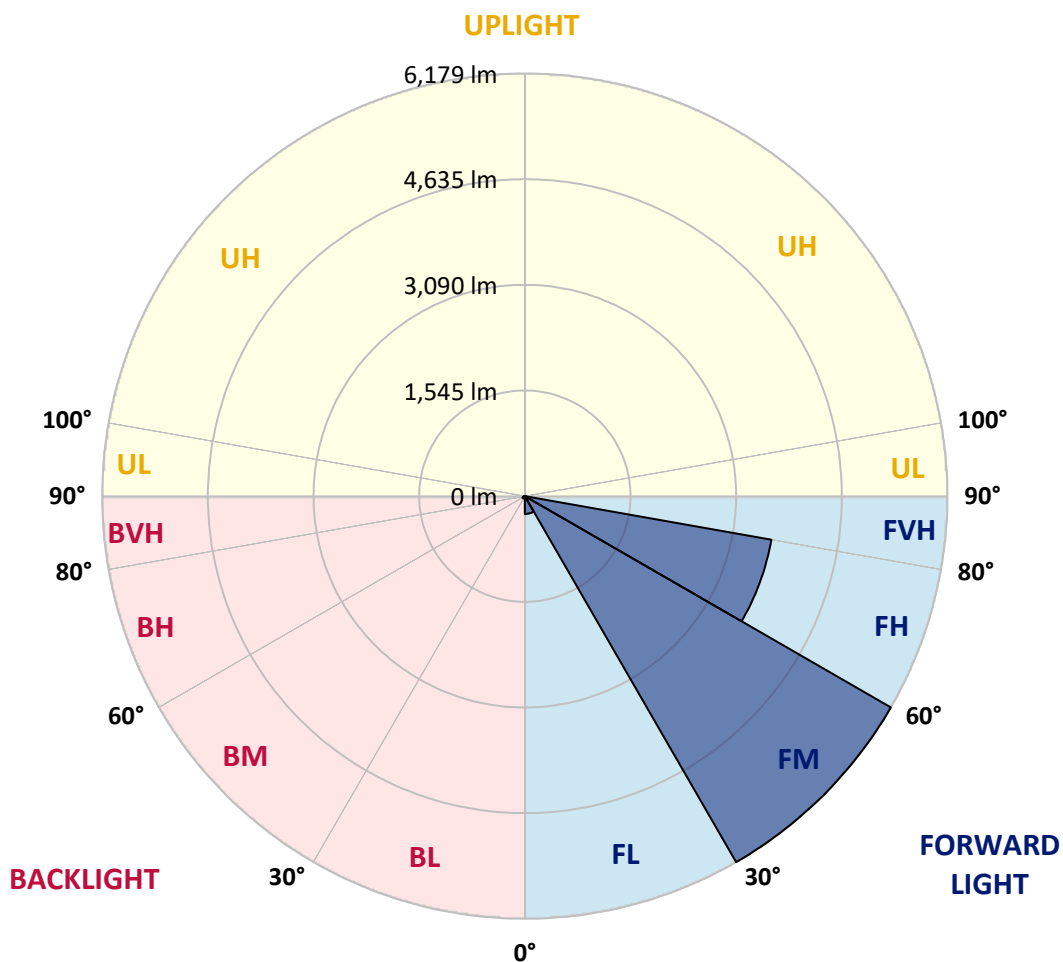
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.9	2.6			
FM	(30°-60°)	6179.3	60.6			
FH	(60°-80°)	3660.7	35.9			G2/5000
FVH	(80°-90°)	18.4	0.2			G1/100
BL	(0°-30°)	6.8	0.1	B0/110		
BM	(30°-60°)	38.1	0.4	B0/220		
BH	(60°-80°)	23.8	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
2.5°	57.7	57.7	55.4	52.3	49.3	46.2	45.4	43.9	43.1	42.3
5°	60.0	60.0	59.3	57.0	53.9	51.6	51.6	49.3	47.7	46.2
7.5°	61.6	62.3	63.9	63.1	61.6	59.3	59.3	57.7	55.4	51.6
10°	63.9	66.2	69.3	70.8	71.6	71.6	70.8	70.0	66.2	60.8
12.5°	66.2	70.8	78.5	86.2	90.8	97.0	96.2	94.7	84.7	73.1
15°	70.8	77.7	93.9	116.2	150.9	172.4	180.9	173.2	140.1	98.5
17.5°	76.2	87.7	136.2	243.2	398.7	472.6	517.2	481.1	318.6	187.0
20°	81.6	107.0	253.2	630.4	1034.5	1276.1	1343.1	1238.4	795.1	356.4
22.5°	90.8	150.1	513.4	1303.1	2229.0	2591.5	2660.0	2325.2	1501.7	703.5
25°	110.1	217.8	885.1	2123.6	3326.6	3938.5	3910.0	3471.3	2436.0	1123.7
27.5°	137.8	317.1	1338.5	3017.2	4378.0	4917.5	4982.2	4439.5	3247.3	1652.5
30°	177.8	439.5	1824.9	3733.0	5220.8	5804.2	5815.0	5253.9	3973.1	2116.6
32.5°	216.3	554.9	2250.6	4424.9	6051.2	6690.9	6738.6	6048.2	4515.0	2600.0
35°	245.5	630.4	2681.6	5033.0	6888.7	7770.0	7766.9	6947.2	5156.9	3031.8
37.5°	247.8	705.8	3071.8	5654.9	7949.3	8936.0	9033.8	8130.2	5932.7	3565.9
40°	242.5	790.5	3565.9	6624.7	9860.4	11374.4	11460.6	10321.4	7489.0	4480.3
42.5°	248.6	937.5	4368.0	8415.7	13033.8	15208.2	15374.4	14176.8	10349.9	6346.0
45°	280.9	1213.8	6048.2	11412.1	17557.2	20208.0	20152.6	18427.8	13678.8	9186.2
47.5°	387.9	1890.3	8538.9	14328.4	20448.2	22808.8	22856.5	20748.3	15621.5	11369.8
50°	596.5	2892.5	10631.6	15870.1	21691.2	24059.5	24014.9	21578.8	16359.6	12445.0
52.5°	775.8	3617.5	11681.5	16411.2	21850.5	24677.6	24674.5	21797.4	16474.3	12537.4
55°	820.5	3672.2	11689.9	16440.4	22207.7	25486.5	25588.1	22335.4	16622.8	12134.1
57.5°	802.8	3251.1	11202.0	16609.8	22843.4	26112.3	26117.7	22856.5	17000.0	11887.0
58°	787.4	3184.9	11103.4	16706.0	22952.7	26138.4	26125.4	22880.4	17307.1	11877.7
60°	701.2	2765.5	10719.4	16951.5	22790.3	25601.2	25478.8	22359.3	17261.7	11783.1
62.5°	551.1	2157.4	10341.5	16667.5	21049.3	23000.4	23051.2	19795.5	15736.2	11231.2
65°	438.7	1607.9	9553.3	14620.1	17333.3	18888.0	19077.4	16097.2	13134.6	9510.2
67.5°	349.4	1162.2	8013.9	11639.9	13715.8	15763.9	15901.7	13514.9	10176.0	7286.6
70°	284.0	785.8	5531.7	8512.7	11312.8	13615.7	13624.2	11227.4	7595.2	4774.3
72.5°	251.7	544.2	3211.1	6208.3	9173.1	11095.0	10871.0	9110.7	5837.3	2827.8
75°	217.8	361.0	1574.8	3795.3	5561.7	5599.4	5684.9	4226.3	2917.9	1344.6
77.5°	179.3	256.3	620.4	1036.8	1667.9	2135.1	2214.4	1677.9	970.6	331.0
80°	123.1	121.6	167.0	317.9	477.2	598.0	558.0	431.8	254.0	127.0
82.5°	53.1	57.7	75.4	90.8	73.9	71.6	68.5	43.9	33.9	26.2
85°	16.9	15.4	16.2	16.2	13.1	10.0	10.0	4.6	0.0	0.0
87.5°	8.5	6.9	6.9	6.2	3.8	1.5	0.8	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°
44.6	0°	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
41.6	2.5°	40.8	40.8	39.3	37.7	36.9	35.4	34.6	33.9	33.1	32.3
44.6	5°	43.1	42.3	40.0	37.7	35.4	33.1	31.6	30.0	28.5	27.7
49.3	7.5°	47.0	45.4	40.8	36.9	33.9	30.8	29.2	26.9	25.4	23.1
54.6	10°	51.6	48.5	42.3	37.7	33.1	29.2	26.9	24.6	22.3	19.2
62.3	12.5°	57.7	52.3	44.6	36.9	31.6	26.9	24.6	21.6	19.2	16.9
72.4	15°	63.1	56.2	45.4	36.9	30.0	24.6	21.6	18.5	16.2	13.1
90.8	17.5°	70.8	59.3	44.6	34.6	27.7	21.6	18.5	16.2	12.3	7.7
134.7	20°	83.9	61.6	43.1	32.3	23.9	17.7	13.9	10.8	5.4	1.5
202.4	22.5°	104.7	67.7	41.6	29.2	20.8	13.9	9.2	3.8	0.0	0.0
307.9	25°	144.7	78.5	41.6	27.7	18.5	10.0	3.1	0.0	0.0	0.0
437.2	27.5°	192.4	93.1	41.6	23.9	14.6	5.4	0.0	0.0	0.0	0.0
595.7	30°	240.9	109.3	41.6	20.8	11.5	0.8	0.0	0.0	0.0	0.0
733.5	32.5°	287.1	123.1	42.3	17.7	7.7	0.0	0.0	0.0	0.0	0.0
924.4	35°	334.0	125.5	41.6	15.4	4.6	0.0	0.0	0.0	0.0	0.0
1158.4	37.5°	394.1	120.8	39.3	13.9	2.3	0.0	0.0	0.0	0.0	0.0
1524.0	40°	484.9	123.1	36.9	13.1	0.8	0.0	0.0	0.0	0.0	0.0
2175.9	42.5°	652.7	133.2	33.9	13.1	0.0	0.0	0.0	0.0	0.0	0.0
3465.9	45°	1128.4	178.6	30.8	13.9	0.0	0.0	0.0	0.0	0.0	0.0
5203.1	47.5°	1866.5	321.0	30.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0
6267.5	50°	2382.2	404.1	31.6	14.6	0.0	0.0	0.0	0.0	0.0	0.0
6400.7	52.5°	2378.3	450.3	33.1	15.4	3.1	0.0	0.0	0.0	0.0	0.0
5899.6	55°	2114.3	458.7	35.4	16.9	10.0	0.0	0.0	0.0	0.0	0.0
5069.9	57.5°	1767.2	418.7	40.8	20.8	18.5	0.0	0.0	0.0	0.0	0.0
4939.8	58°	1705.6	400.2	42.3	21.6	20.0	0.0	0.0	0.0	0.0	0.0
4284.8	60°	1397.7	326.3	53.9	26.9	26.9	0.0	0.0	0.0	0.0	0.0
3512.8	62.5°	965.2	284.8	61.6	34.6	27.7	0.0	0.0	0.0	0.0	0.0
2590.0	65°	682.7	257.1	67.0	36.9	22.3	0.0	0.0	0.0	0.0	0.0
1840.3	67.5°	510.3	237.1	73.9	37.7	11.5	0.0	0.0	0.0	0.0	0.0
1154.5	70°	391.0	222.4	90.8	40.0	3.1	0.0	0.0	0.0	0.0	0.0
688.1	72.5°	318.6	205.5	110.1	41.6	0.0	0.0	0.0	0.0	0.0	0.0
412.6	75°	264.0	185.5	106.2	45.4	0.0	0.0	0.0	0.0	0.0	0.0
220.1	77.5°	175.5	143.9	97.0	45.4	0.0	0.0	0.0	0.0	0.0	0.0
78.5	80°	61.6	57.0	75.4	40.0	0.0	0.0	0.0	0.0	0.0	0.0
16.2	82.5°	9.2	7.7	10.8	13.9	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°
44.6	0°	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
31.6	2.5°	31.6	31.6	30.8	31.6	31.6	33.1	36.9	42.3	48.5	50.8
26.9	5°	26.2	25.4	24.6	24.6	24.6	26.9	30.0	36.2	43.1	46.2
22.3	7.5°	21.6	20.8	20.0	19.2	19.2	20.8	24.6	31.6	38.5	41.6
18.5	10°	17.7	16.2	15.4	14.6	14.6	16.2	20.0	26.9	34.6	37.7
15.4	12.5°	14.6	12.3	10.8	10.0	9.2	11.5	15.4	21.6	30.0	33.9
11.5	15°	10.0	7.7	5.4	4.6	3.8	6.2	10.0	16.9	25.4	30.0
6.2	17.5°	5.4	2.3	0.8	0.0	0.0	1.5	4.6	12.3	20.8	24.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	15.4	19.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	9.2	13.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
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	2.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.2
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°
44.6	0°	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
53.1	2.5°	54.6	53.9	52.3	50.8	50.8	50.8	53.1	55.4	57.7	57.7
47.7	5°	50.8	50.8	50.0	48.5	48.5	49.3	52.3	56.2	59.3	60.0
43.9	7.5°	47.0	48.5	47.0	46.2	47.0	47.7	50.8	55.4	60.0	61.6
40.8	10°	44.6	45.4	45.4	44.6	44.6	46.2	49.3	55.4	61.6	63.9
36.9	12.5°	41.6	43.1	42.3	42.3	42.3	43.9	47.7	54.6	63.1	66.2
33.1	15°	38.5	40.8	40.8	40.0	40.0	40.8	46.2	53.9	65.4	70.8
28.5	17.5°	35.4	37.7	38.5	36.9	36.9	38.5	43.9	53.9	67.0	76.2
23.1	20°	29.2	33.1	35.4	33.1	33.1	34.6	40.0	50.8	67.7	81.6
16.9	22.5°	23.1	26.9	30.0	29.2	29.2	30.0	36.9	48.5	68.5	90.8
10.0	25°	16.9	20.8	23.1	24.6	24.6	26.9	33.9	47.0	71.6	110.1
4.6	27.5°	10.0	14.6	17.7	19.2	20.0	23.1	31.6	45.4	77.0	137.8
0.0	30°	4.6	8.5	12.3	15.4	15.4	20.8	29.2	43.9	83.9	177.8
0.0	32.5°	0.0	3.8	6.2	10.8	11.5	16.9	26.9	42.3	93.9	216.3
0.0	35°	0.0	0.0	3.1	8.5	8.5	13.9	24.6	40.8	109.3	245.5
0.0	37.5°	0.0	0.0	0.0	6.2	6.9	12.3	23.9	40.0	112.4	247.8
0.0	40°	0.0	0.0	0.0	4.6	5.4	11.5	23.9	40.8	101.6	242.5
0.0	42.5°	0.0	0.0	0.0	3.1	3.8	11.5	23.9	42.3	91.6	248.6
0.0	45°	0.0	0.0	0.0	2.3	3.1	12.3	23.1	41.6	86.2	280.9
0.0	47.5°	0.0	0.0	0.0	3.1	4.6	12.3	22.3	40.8	87.0	387.9
0.0	50°	0.0	0.0	0.0	3.8	5.4	12.3	23.1	39.3	95.4	596.5
0.0	52.5°	0.0	0.0	0.0	3.1	4.6	13.9	25.4	38.5	103.9	775.8
0.0	55°	0.0	0.0	0.0	0.8	2.3	17.7	27.7	38.5	117.0	820.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	20.0	31.6	40.8	138.5	802.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	20.0	32.3	40.8	140.1	787.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	20.0	35.4	45.4	150.9	701.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	16.9	42.3	57.0	157.0	551.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	13.9	50.0	62.3	161.6	438.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	13.1	51.6	63.1	163.9	349.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	13.9	50.8	67.7	171.6	284.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	15.4	46.2	74.7	171.6	251.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	16.2	43.1	83.9	156.2	217.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	15.4	42.3	97.7	139.3	179.3
0.0	80°	1.5	2.3	2.3	1.5	1.5	13.1	41.6	99.3	118.5	123.1
0.8	82.5°	4.6	6.2	5.4	3.8	3.8	11.5	36.9	83.1	61.6	53.1
4.6	85°	8.5	10.0	10.0	8.5	8.5	10.8	23.1	30.0	20.8	16.9
8.5	87.5°	11.5	13.1	13.1	11.5	11.5	10.8	10.0	9.2	8.5	8.5
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



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

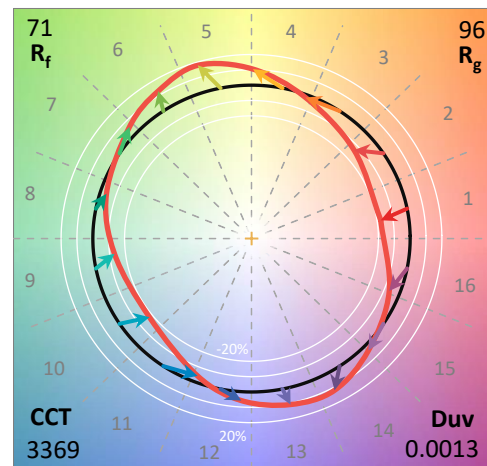
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3369	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

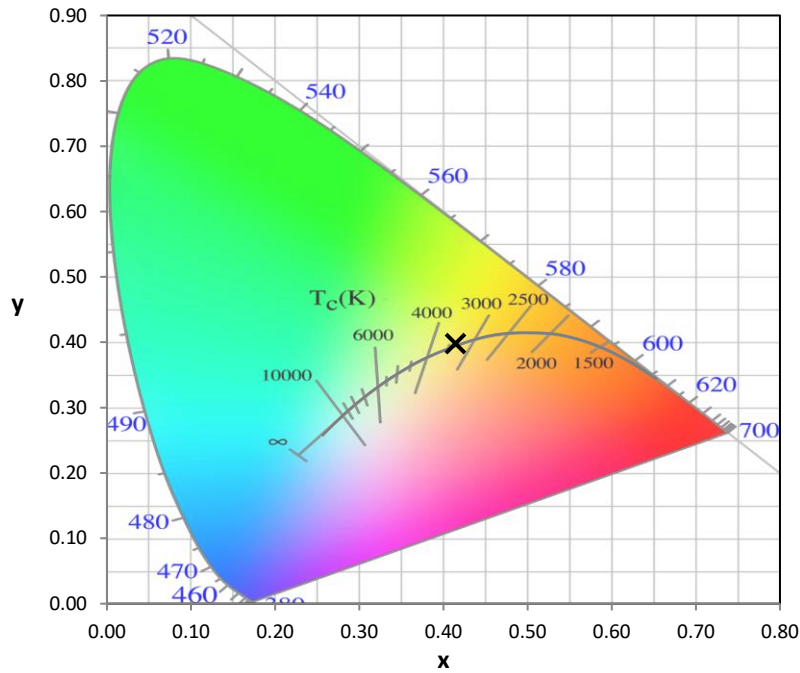
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

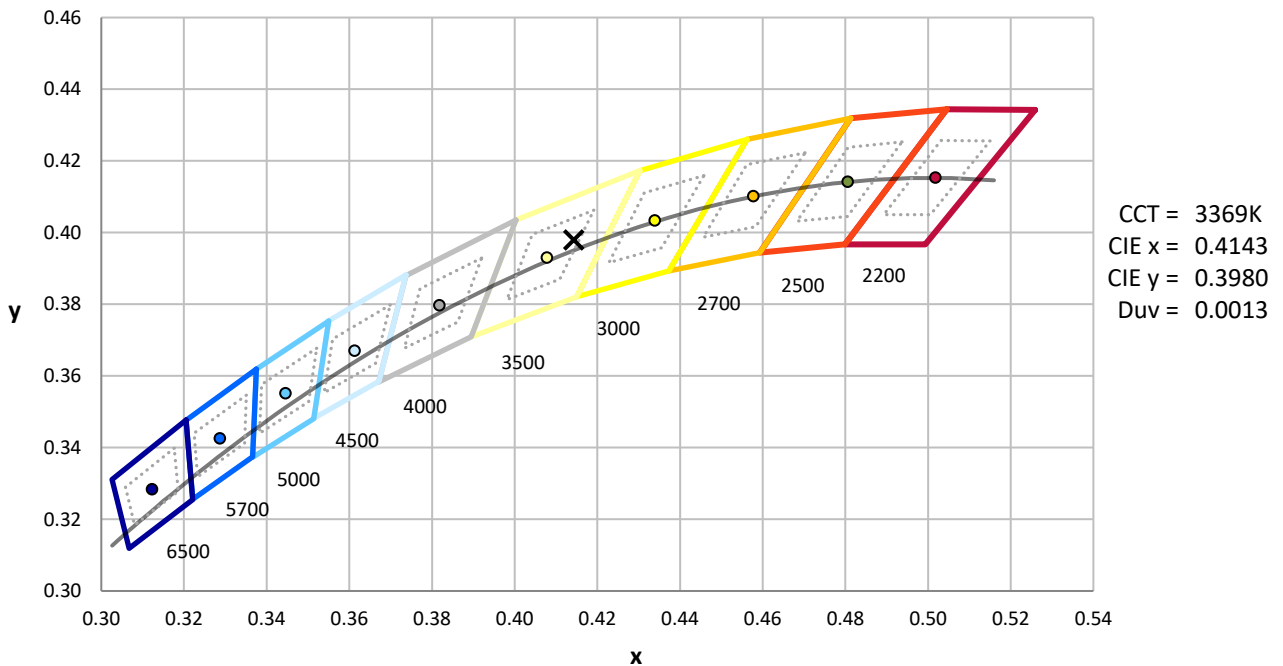
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



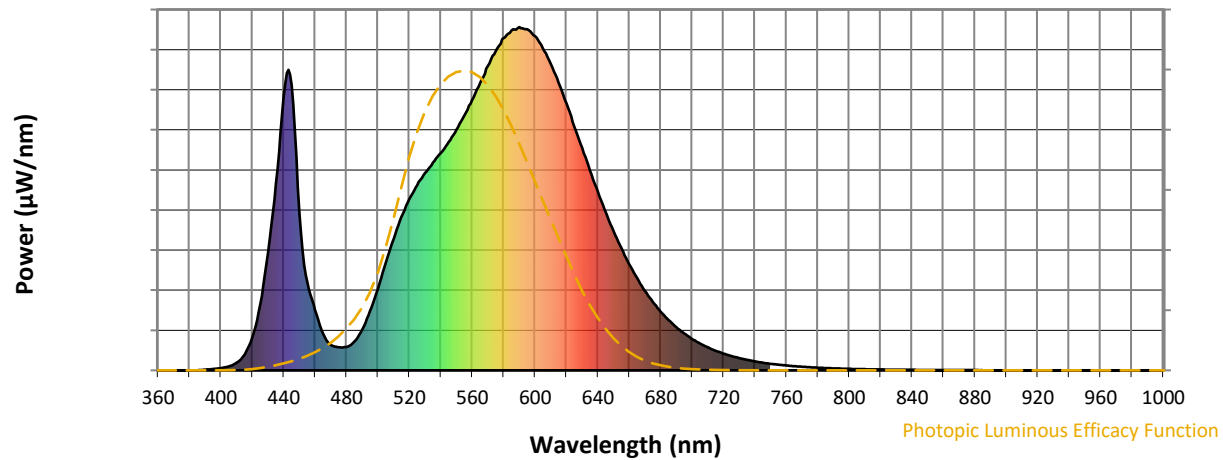
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

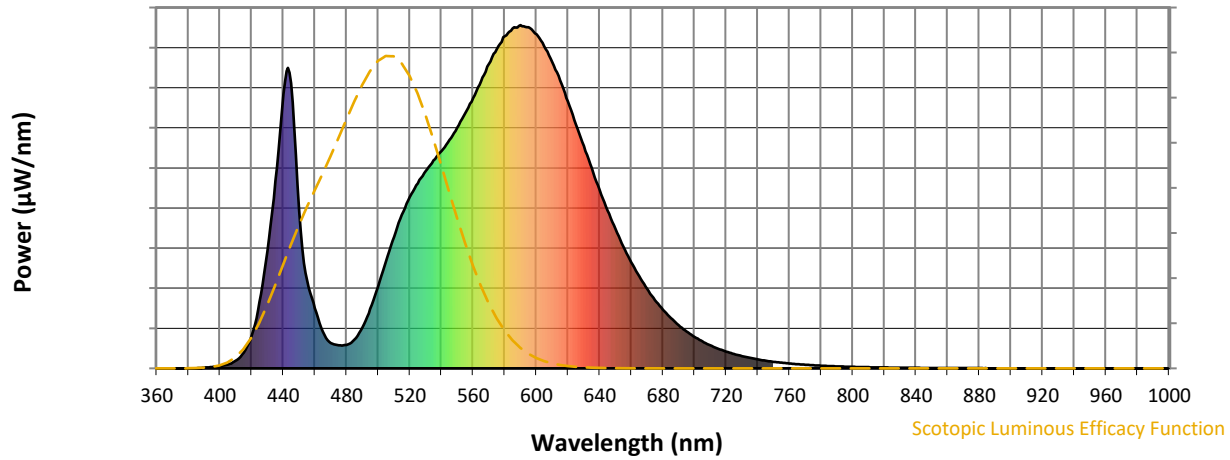


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



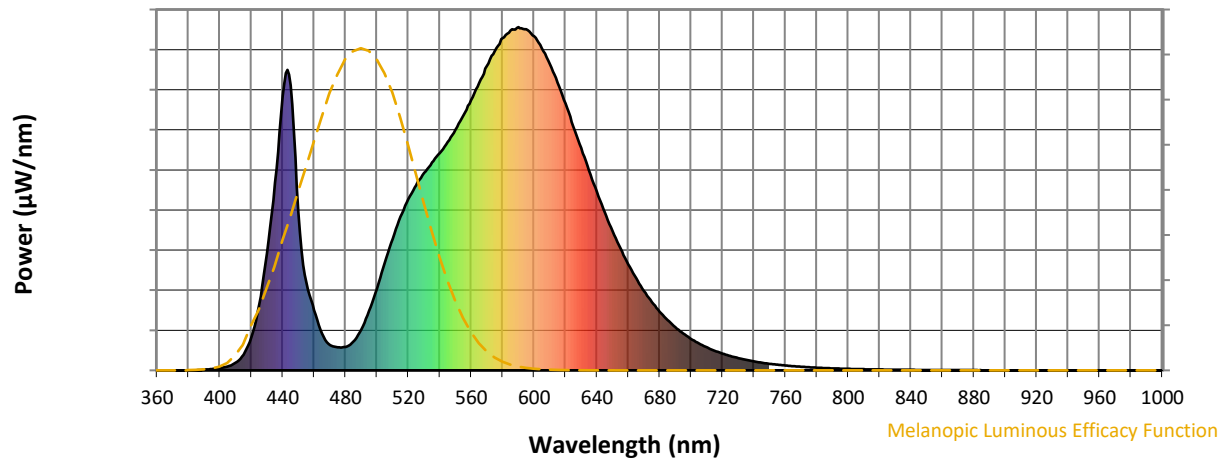
Scotopic Lumens: NR

S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

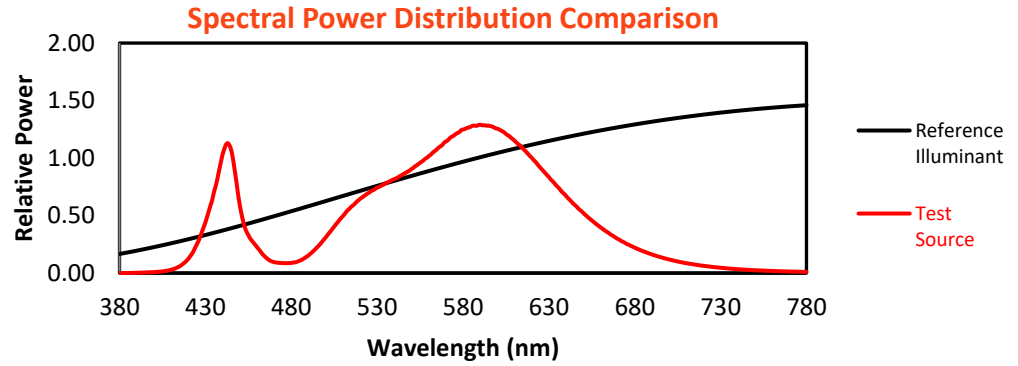
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

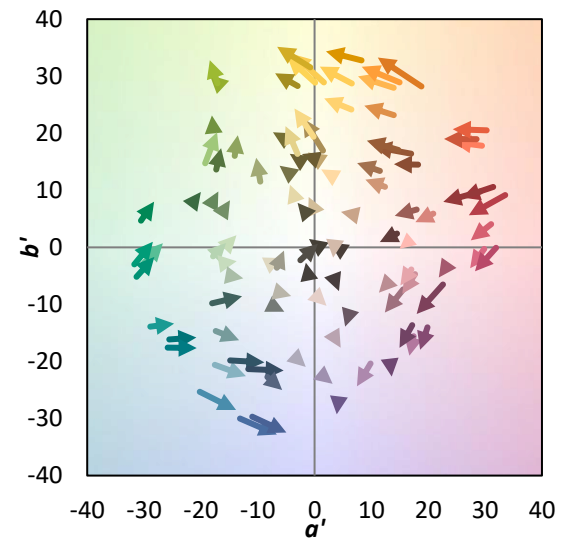
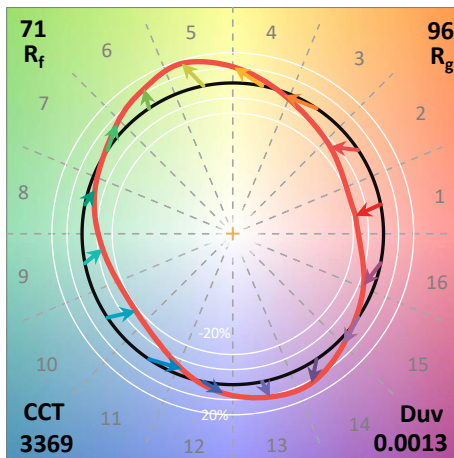
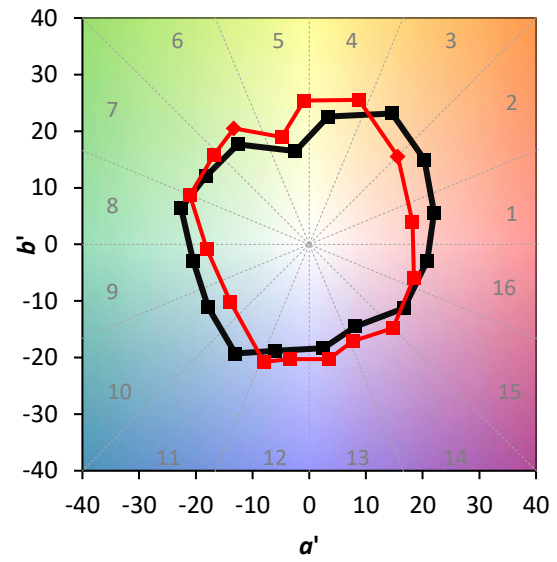
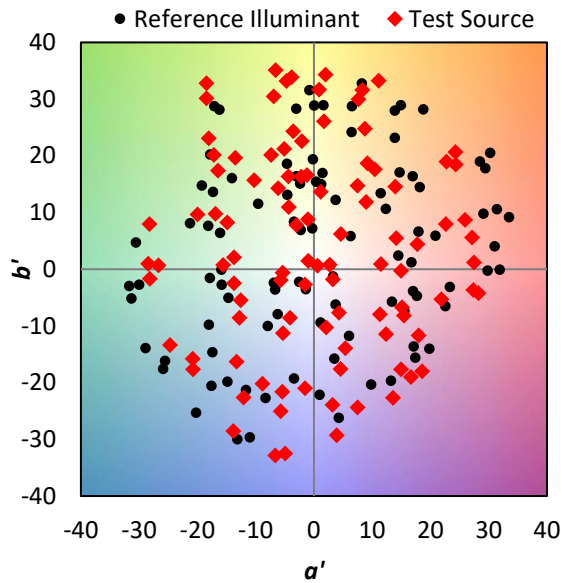
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 CIE $R_a = 70.1$
 $R_g = -40.2$

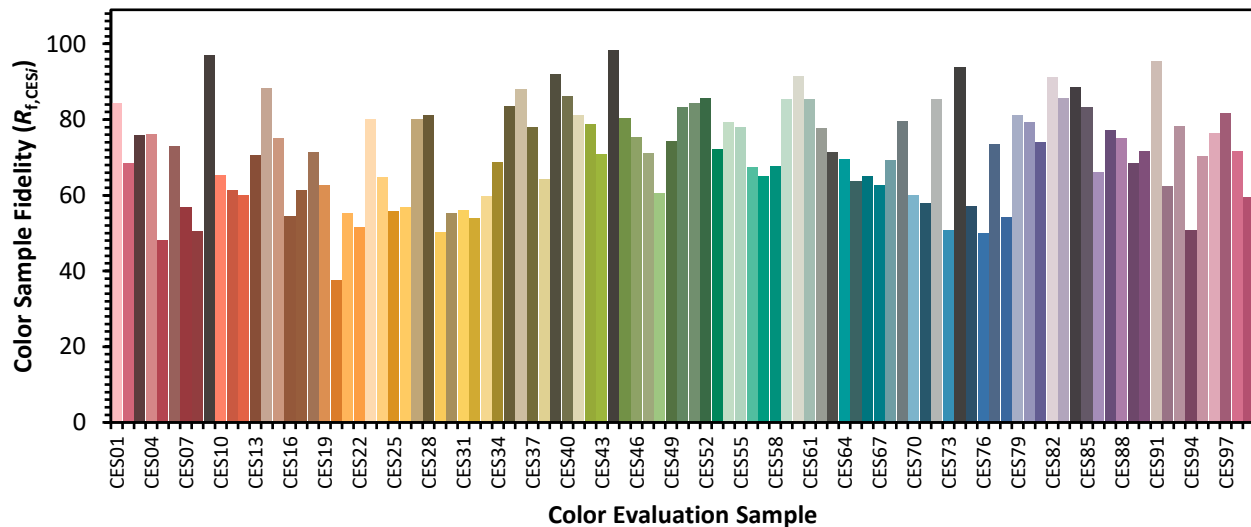


Color Vector Graphics

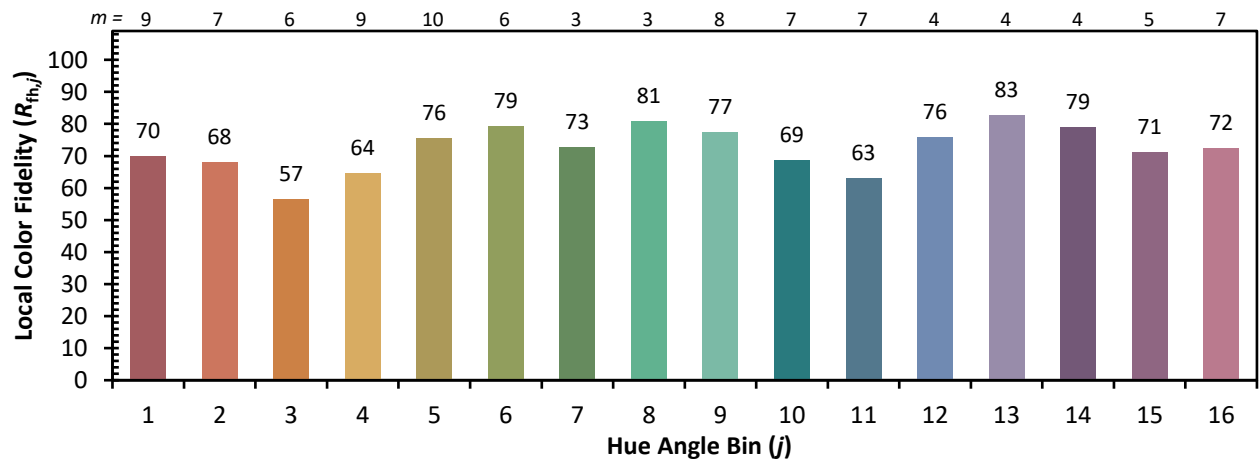
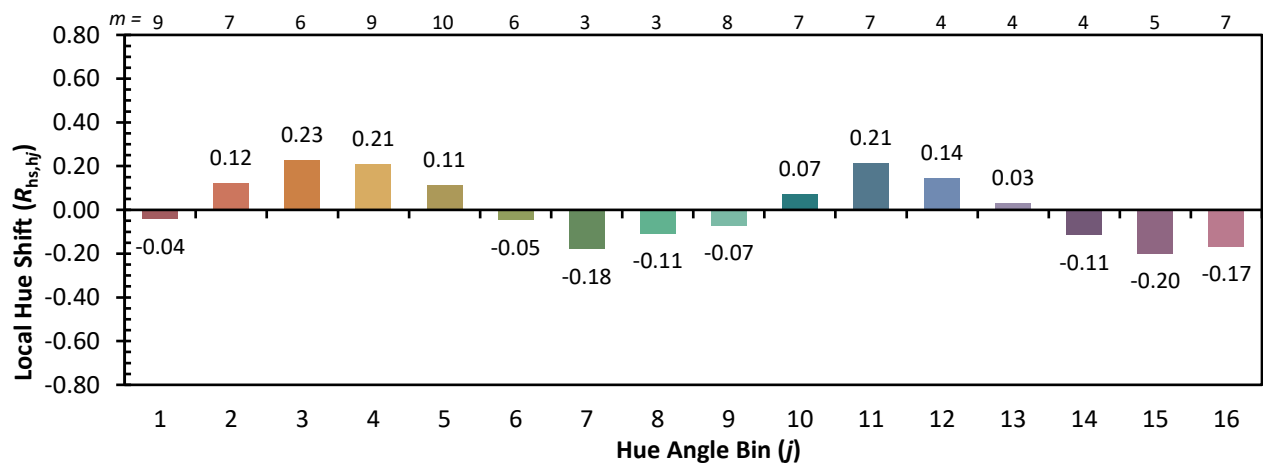
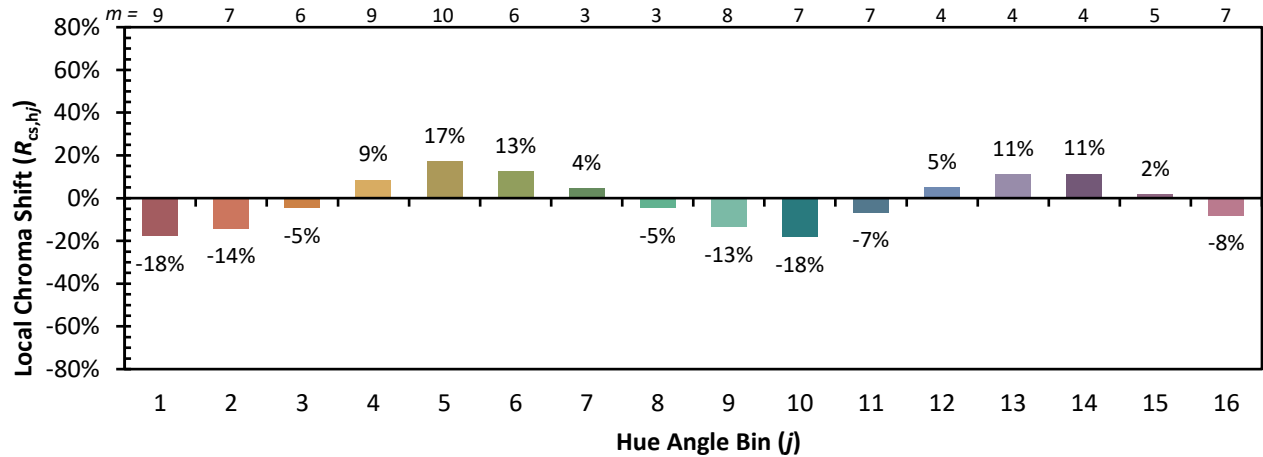


Individual Sample Fidelity Index ($R_{f,i}$)

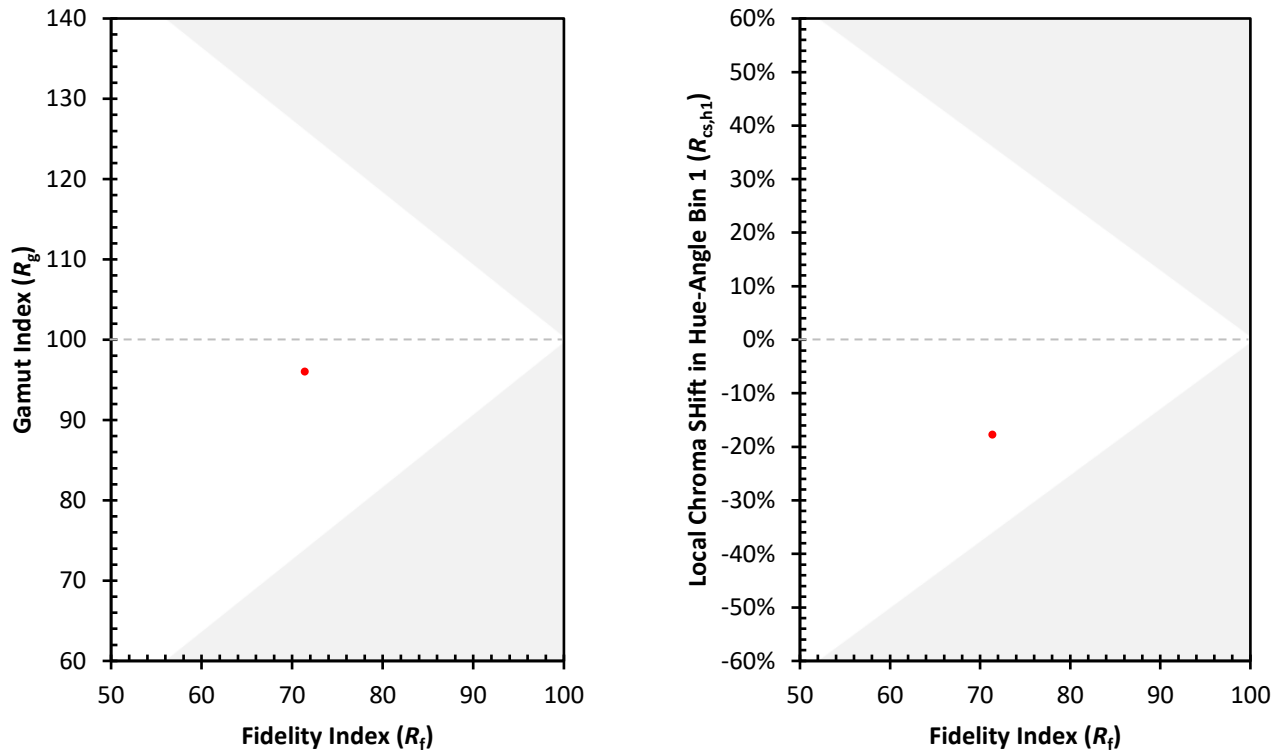
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)