

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: P1050027

Luminaire Tested: **GALN-SA7C-940-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050027
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 7xLight Square PACKAGE
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25789.2 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

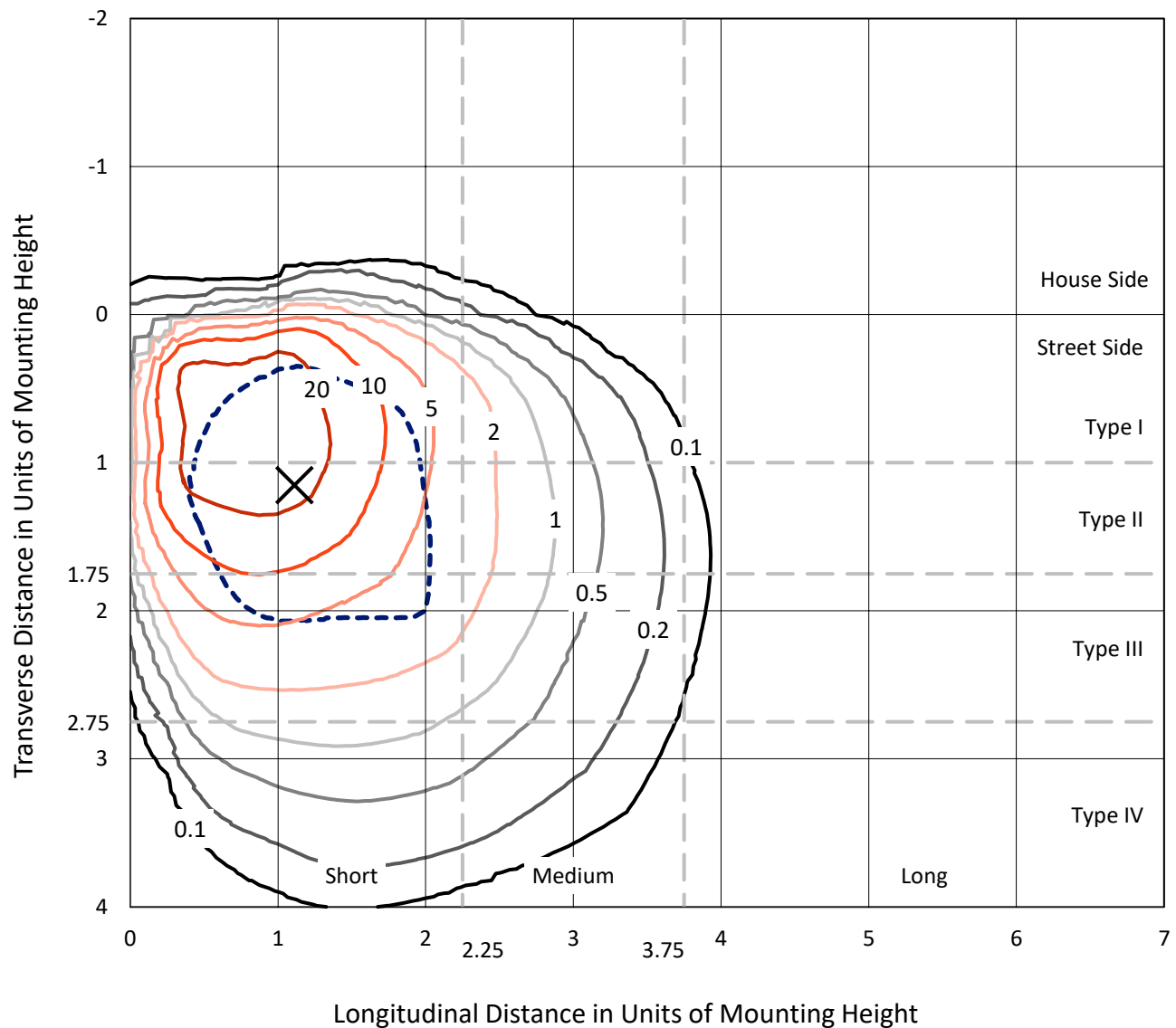
Input Watts (W): 330
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

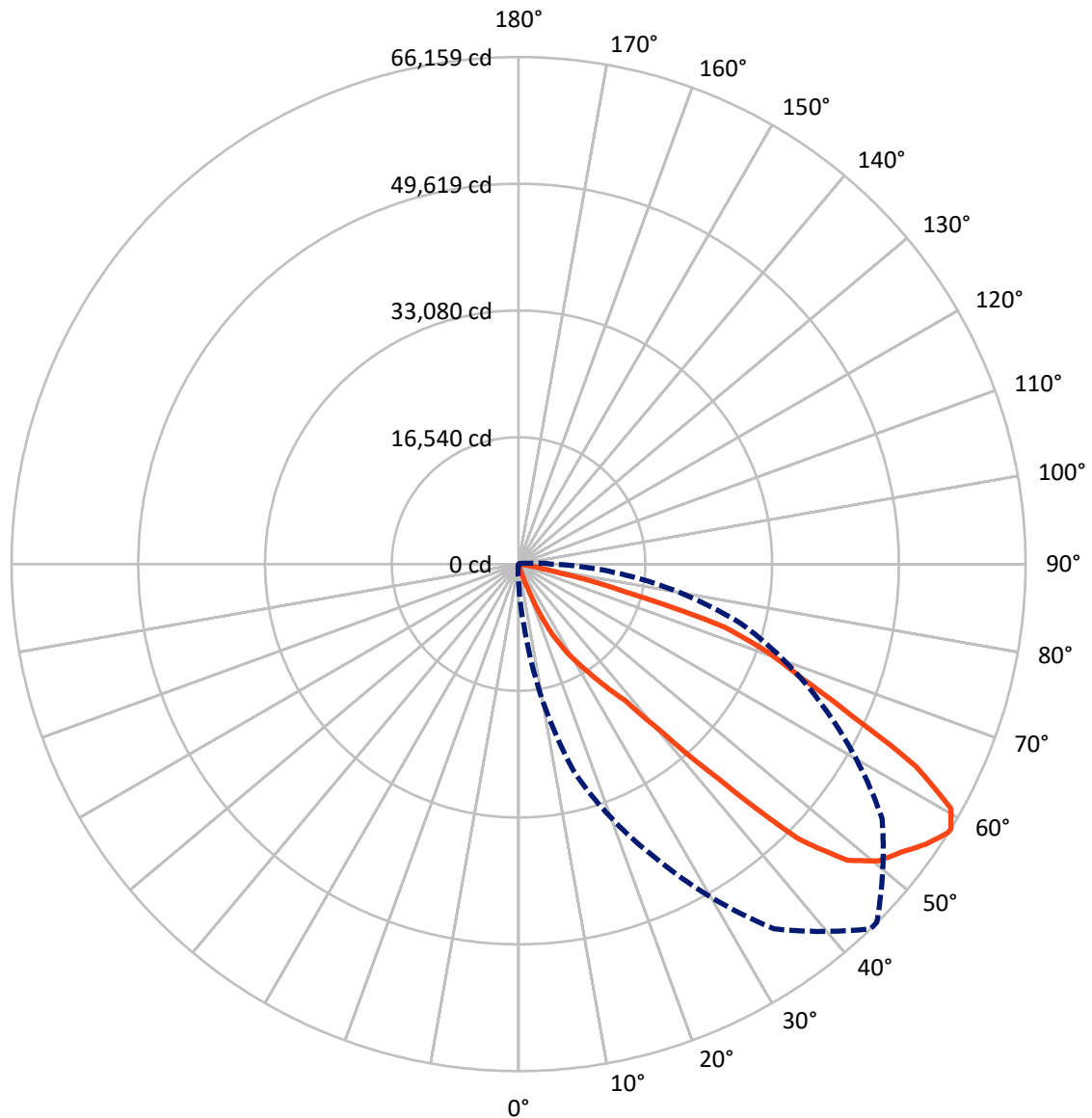
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 44.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	176.1	0.0	176.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	25613.1	0.0	25613.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	25789.2	0.0	25789.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.1	0.0
10°-20°	56.6	0.2
20°-30°	610.9	2.4
30°-40°	1806.8	7.0
40°-50°	5385.2	20.9
50°-60°	8545.0	33.1
60°-70°	7127.6	27.6
70°-80°	2198.3	8.5
80°-90°	48.8	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°	25789.2	100.0
0°-180°	25789.2	100.0



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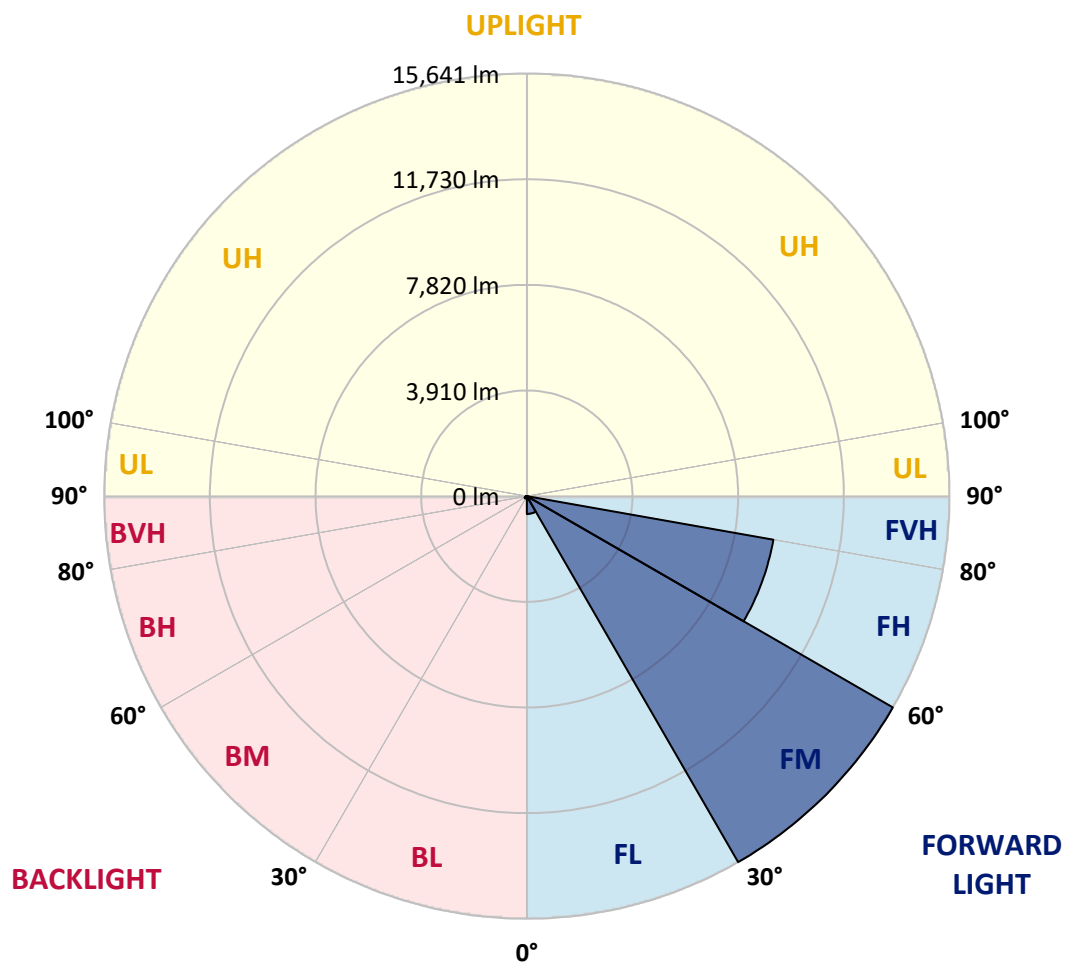
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	660.4	2.6			
FM	(30°-60°)	15640.6	60.6			
FH	(60°-80°)	9265.7	35.9			G4/12000
FVH	(80°-90°)	46.5	0.2			G1/100
BL	(0°-30°)	17.2	0.1	B0/110		
BM	(30°-60°)	96.4	0.4	B0/220		
BH	(60°-80°)	60.1	0.2	B0/110		G0/110
BVH	(80°-90°)	2.4	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
2.5°	146.1	146.1	140.3	132.5	124.7	116.9	114.9	111.0	109.1	107.1
5°	152.0	152.0	150.0	144.2	136.4	130.5	130.5	124.7	120.8	116.9
7.5°	155.9	157.8	161.7	159.7	155.9	150.0	150.0	146.1	140.3	130.5
10°	161.7	167.5	175.3	179.2	181.2	181.2	179.2	177.3	167.5	153.9
12.5°	167.5	179.2	198.7	218.2	229.9	245.5	243.5	239.6	214.3	185.1
15°	179.2	196.8	237.7	294.2	381.8	436.4	457.8	438.3	354.6	249.4
17.5°	192.9	222.1	344.8	615.6	1009.1	1196.2	1309.2	1217.6	806.5	473.4
20°	206.5	270.8	640.9	1595.5	2618.3	3230.0	3399.5	3134.6	2012.4	902.0
22.5°	229.9	379.9	1299.4	3298.2	5641.9	6559.4	6732.8	5885.4	3800.9	1780.6
25°	278.6	551.3	2240.4	5375.0	8419.9	9968.7	9896.6	8786.2	6165.9	2844.3
27.5°	348.7	802.6	3387.8	7636.8	11081.1	12446.8	12610.4	11237.0	8219.3	4182.7
30°	450.0	1112.4	4619.1	9448.6	13214.3	14691.0	14718.3	13298.1	10056.4	5357.4
32.5°	547.4	1404.6	5696.4	11199.9	15316.4	16935.3	17056.1	15308.6	11427.9	6580.9
35°	621.5	1595.5	6787.4	12739.0	17436.0	19666.6	19658.8	17584.0	13052.6	7673.8
37.5°	627.3	1786.5	7775.1	14313.1	20120.5	22618.1	22865.5	20578.4	15016.4	9025.8
40°	613.7	2000.8	9025.8	16767.8	24957.8	28789.8	29008.0	26124.8	18955.5	11340.2
42.5°	629.3	2372.9	11055.8	21301.1	32990.1	38493.6	38914.4	35883.1	26196.8	16062.5
45°	711.1	3072.2	15308.6	28885.3	44439.4	51148.8	51008.5	46642.7	34622.6	23251.2
47.5°	981.9	4784.7	21612.8	36266.9	51756.6	57731.6	57852.4	52516.4	39539.8	28778.1
50°	1509.8	7321.2	26909.9	40169.0	54902.9	60897.4	60784.4	54618.5	41408.0	31499.7
52.5°	1963.7	9156.3	29567.1	41538.6	55306.2	62461.7	62454.0	55171.8	41698.3	31733.5
55°	2076.7	9294.6	29588.6	41612.6	56210.1	64509.3	64766.4	56533.5	42074.3	30712.7
57.5°	2031.9	8229.0	28353.4	42041.2	57819.3	66093.1	66106.7	57852.4	43028.9	30087.3
58°	1993.0	8061.5	28104.1	42284.7	58095.9	66159.3	66126.2	57912.8	43806.2	30063.9
60°	1774.8	6999.7	27132.0	42906.2	57684.9	64799.5	64489.8	56593.9	43691.3	29824.3
62.5°	1394.9	5460.7	26175.4	42187.3	53278.1	58216.7	58345.3	50104.6	39830.0	28427.5
65°	1110.4	4069.7	24180.5	37005.2	43872.5	47807.7	48287.0	40743.7	33245.3	24071.4
67.5°	884.5	2941.7	20284.2	29461.9	34716.1	39900.2	40248.9	34207.7	25756.6	18443.2
70°	718.9	1989.1	14001.4	21546.6	28634.0	34462.9	34484.3	28417.7	19224.4	12084.4
72.5°	637.0	1377.3	8127.7	15713.8	23218.1	28082.7	27515.7	23060.3	14774.8	7157.5
75°	551.3	913.7	3985.9	9606.4	14077.4	14172.8	14389.1	10697.3	7385.5	3403.4
77.5°	453.9	648.7	1570.2	2624.2	4221.7	5404.2	5604.8	4247.0	2456.6	837.7
80°	311.7	307.8	422.7	804.6	1207.9	1513.7	1412.4	1092.9	642.9	321.4
82.5°	134.4	146.1	190.9	229.9	187.0	181.2	173.4	111.0	85.7	66.2
85°	42.9	39.0	40.9	40.9	33.1	25.3	25.3	11.7	0.0	0.0
87.5°	21.4	17.5	17.5	15.6	9.7	3.9	1.9	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°
113.0	0°	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
105.2	2.5°	103.3	103.3	99.4	95.5	93.5	89.6	87.7	85.7	83.8	81.8
113.0	5°	109.1	107.1	101.3	95.5	89.6	83.8	79.9	76.0	72.1	70.1
124.7	7.5°	118.8	114.9	103.3	93.5	85.7	77.9	74.0	68.2	64.3	58.4
138.3	10°	130.5	122.7	107.1	95.5	83.8	74.0	68.2	62.3	56.5	48.7
157.8	12.5°	146.1	132.5	113.0	93.5	79.9	68.2	62.3	54.5	48.7	42.9
183.1	15°	159.7	142.2	114.9	93.5	76.0	62.3	54.5	46.8	40.9	33.1
229.9	17.5°	179.2	150.0	113.0	87.7	70.1	54.5	46.8	40.9	31.2	19.5
340.9	20°	212.3	155.9	109.1	81.8	60.4	44.8	35.1	27.3	13.6	3.9
512.4	22.5°	264.9	171.4	105.2	74.0	52.6	35.1	23.4	9.7	0.0	0.0
779.3	25°	366.3	198.7	105.2	70.1	46.8	25.3	7.8	0.0	0.0	0.0
1106.6	27.5°	487.0	235.7	105.2	60.4	37.0	13.6	0.0	0.0	0.0	0.0
1507.9	30°	609.8	276.6	105.2	52.6	29.2	1.9	0.0	0.0	0.0	0.0
1856.6	32.5°	726.7	311.7	107.1	44.8	19.5	0.0	0.0	0.0	0.0	0.0
2339.7	35°	845.5	317.5	105.2	39.0	11.7	0.0	0.0	0.0	0.0	0.0
2932.0	37.5°	997.5	305.9	99.4	35.1	5.8	0.0	0.0	0.0	0.0	0.0
3857.3	40°	1227.3	311.7	93.5	33.1	1.9	0.0	0.0	0.0	0.0	0.0
5507.4	42.5°	1652.0	337.0	85.7	33.1	0.0	0.0	0.0	0.0	0.0	0.0
8772.5	45°	2856.0	452.0	77.9	35.1	0.0	0.0	0.0	0.0	0.0	0.0
13169.5	47.5°	4724.3	812.4	76.0	35.1	0.0	0.0	0.0	0.0	0.0	0.0
15863.8	50°	6029.5	1022.8	79.9	37.0	0.0	0.0	0.0	0.0	0.0	0.0
16200.9	52.5°	6019.8	1139.7	83.8	39.0	7.8	0.0	0.0	0.0	0.0	0.0
14932.6	55°	5351.6	1161.1	89.6	42.9	25.3	0.0	0.0	0.0	0.0	0.0
12832.5	57.5°	4473.0	1059.8	103.3	52.6	46.8	0.0	0.0	0.0	0.0	0.0
12503.3	58°	4317.1	1013.0	107.1	54.5	50.7	0.0	0.0	0.0	0.0	0.0
10845.4	60°	3537.8	826.0	136.4	68.2	68.2	0.0	0.0	0.0	0.0	0.0
8891.4	62.5°	2443.0	720.8	155.9	87.7	70.1	0.0	0.0	0.0	0.0	0.0
6555.5	65°	1728.0	650.7	169.5	93.5	56.5	0.0	0.0	0.0	0.0	0.0
4658.0	67.5°	1291.6	600.0	187.0	95.5	29.2	0.0	0.0	0.0	0.0	0.0
2922.2	70°	989.7	563.0	229.9	101.3	7.8	0.0	0.0	0.0	0.0	0.0
1741.7	72.5°	806.5	520.2	278.6	105.2	0.0	0.0	0.0	0.0	0.0	0.0
1044.2	75°	668.2	469.5	268.8	114.9	0.0	0.0	0.0	0.0	0.0	0.0
557.2	77.5°	444.2	364.3	245.5	114.9	0.0	0.0	0.0	0.0	0.0	0.0
198.7	80°	155.9	144.2	190.9	101.3	0.0	0.0	0.0	0.0	0.0	0.0
40.9	82.5°	23.4	19.5	27.3	35.1	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°
113.0	0°	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
79.9	2.5°	79.9	79.9	77.9	79.9	79.9	83.8	93.5	107.1	122.7	128.6
68.2	5°	66.2	64.3	62.3	62.3	62.3	68.2	76.0	91.6	109.1	116.9
56.5	7.5°	54.5	52.6	50.7	48.7	48.7	52.6	62.3	79.9	97.4	105.2
46.8	10°	44.8	40.9	39.0	37.0	37.0	40.9	50.7	68.2	87.7	95.5
39.0	12.5°	37.0	31.2	27.3	25.3	23.4	29.2	39.0	54.5	76.0	85.7
29.2	15°	25.3	19.5	13.6	11.7	9.7	15.6	25.3	42.9	64.3	76.0
15.6	17.5°	13.6	5.8	1.9	0.0	0.0	3.9	11.7	31.2	52.6	62.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	39.0	48.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	23.4	33.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	17.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
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	5.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	15.6
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°
113.0	0°	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
134.4	2.5°	138.3	136.4	132.5	128.6	128.6	128.6	134.4	140.3	146.1	146.1
120.8	5°	128.6	128.6	126.6	122.7	122.7	124.7	132.5	142.2	150.0	152.0
111.0	7.5°	118.8	122.7	118.8	116.9	118.8	120.8	128.6	140.3	152.0	155.9
103.3	10°	113.0	114.9	114.9	113.0	113.0	116.9	124.7	140.3	155.9	161.7
93.5	12.5°	105.2	109.1	107.1	107.1	107.1	111.0	120.8	138.3	159.7	167.5
83.8	15°	97.4	103.3	103.3	101.3	101.3	103.3	116.9	136.4	165.6	179.2
72.1	17.5°	89.6	95.5	97.4	93.5	93.5	97.4	111.0	136.4	169.5	192.9
58.4	20°	74.0	83.8	89.6	83.8	83.8	87.7	101.3	128.6	171.4	206.5
42.9	22.5°	58.4	68.2	76.0	74.0	74.0	76.0	93.5	122.7	173.4	229.9
25.3	25°	42.9	52.6	58.4	62.3	62.3	68.2	85.7	118.8	181.2	278.6
11.7	27.5°	25.3	37.0	44.8	48.7	50.7	58.4	79.9	114.9	194.8	348.7
0.0	30°	11.7	21.4	31.2	39.0	39.0	52.6	74.0	111.0	212.3	450.0
0.0	32.5°	0.0	9.7	15.6	27.3	29.2	42.9	68.2	107.1	237.7	547.4
0.0	35°	0.0	0.0	7.8	21.4	21.4	35.1	62.3	103.3	276.6	621.5
0.0	37.5°	0.0	0.0	0.0	15.6	17.5	31.2	60.4	101.3	284.4	627.3
0.0	40°	0.0	0.0	0.0	11.7	13.6	29.2	60.4	103.3	257.2	613.7
0.0	42.5°	0.0	0.0	0.0	7.8	9.7	29.2	60.4	107.1	231.8	629.3
0.0	45°	0.0	0.0	0.0	5.8	7.8	31.2	58.4	105.2	218.2	711.1
0.0	47.5°	0.0	0.0	0.0	7.8	11.7	31.2	56.5	103.3	220.1	981.9
0.0	50°	0.0	0.0	0.0	9.7	13.6	31.2	58.4	99.4	241.6	1509.8
0.0	52.5°	0.0	0.0	0.0	7.8	11.7	35.1	64.3	97.4	263.0	1963.7
0.0	55°	0.0	0.0	0.0	1.9	5.8	44.8	70.1	97.4	296.1	2076.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	50.7	79.9	103.3	350.7	2031.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	50.7	81.8	103.3	354.6	1993.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	50.7	89.6	114.9	381.8	1774.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	42.9	107.1	144.2	397.4	1394.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	35.1	126.6	157.8	409.1	1110.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	33.1	130.5	159.7	415.0	884.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	35.1	128.6	171.4	434.4	718.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	39.0	116.9	189.0	434.4	637.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	40.9	109.1	212.3	395.5	551.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	39.0	107.1	247.4	352.6	453.9
0.0	80°	3.9	5.8	5.8	3.9	3.9	33.1	105.2	251.3	300.0	311.7
1.9	82.5°	11.7	15.6	13.6	9.7	9.7	29.2	93.5	210.4	155.9	134.4
11.7	85°	21.4	25.3	25.3	21.4	21.4	27.3	58.4	76.0	52.6	42.9
21.4	87.5°	29.2	33.1	33.1	29.2	29.2	27.3	25.3	23.4	21.4	21.4
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: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

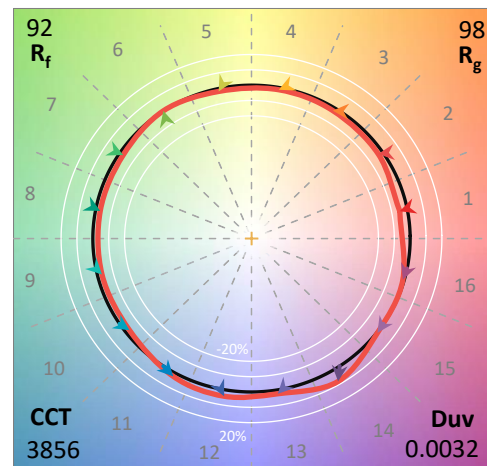
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-16
 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-940-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3856
 CIE u' : 0.2261
 CIE v' : 0.5084
 Duv: 0.0032
 CIE x: 0.3896
 CIE y: 0.3894
 CIE z: 0.2211
 Peak Wavelength (nm): 614
 Dominant Wavelength (nm): 578
 Purity: 33.77304
 R_f: 91.8
 R_g: 98.4

CRI (Ra): 92.1
 R1: 91.8
 R2: 94.1
 R3: 95.3
 R4: 92.8
 R5: 91.0
 R6: 91.6
 R7: 95.0
 R8: 85.2
 R9: 60.7
 R10: 85.2
 R11: 92.4
 R12: 74.5
 R13: 92.3
 R14: 97.0
 R15: 88.5



Test Conditions

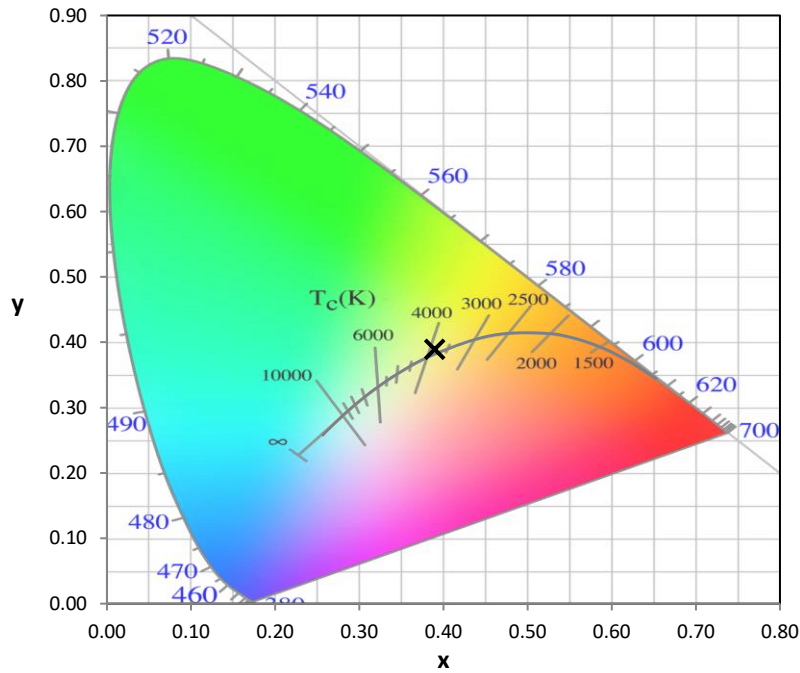
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

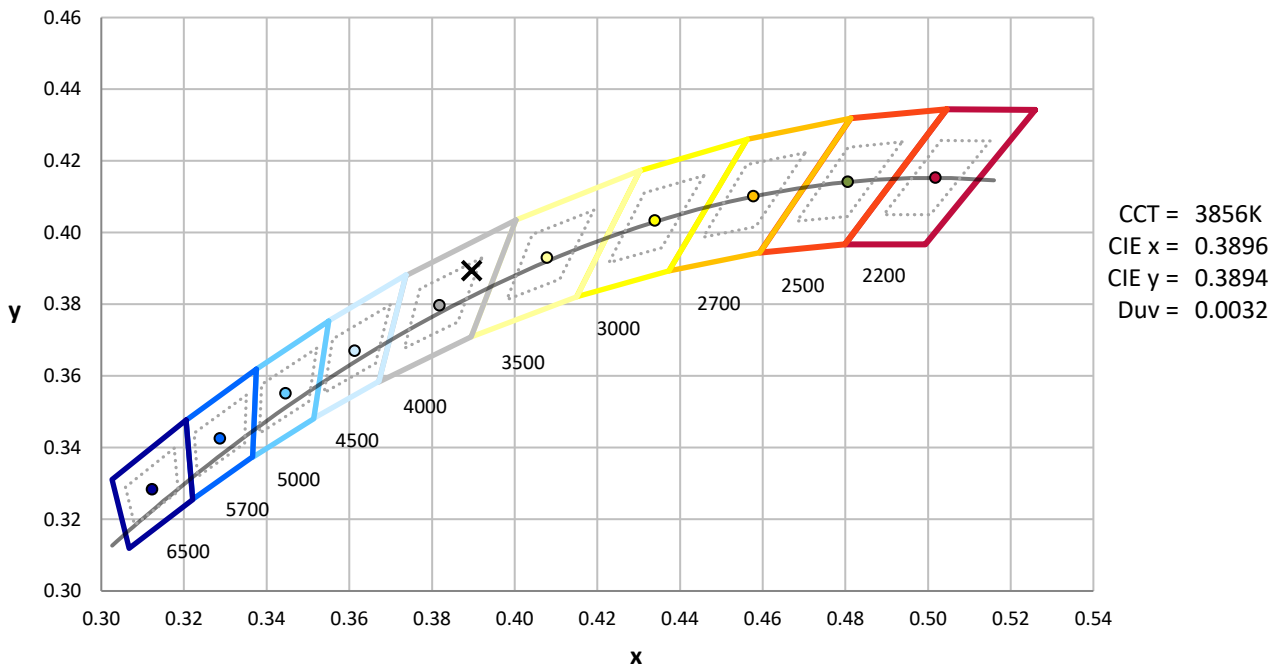
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-16

CIE 1931 Chromaticity Diagram



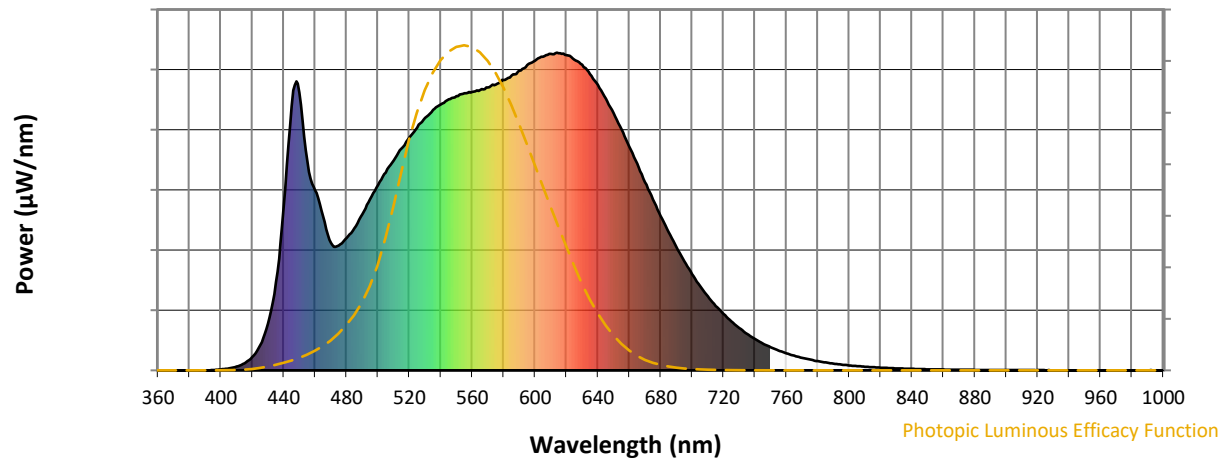
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

Photopic Flux vs. Wavelength

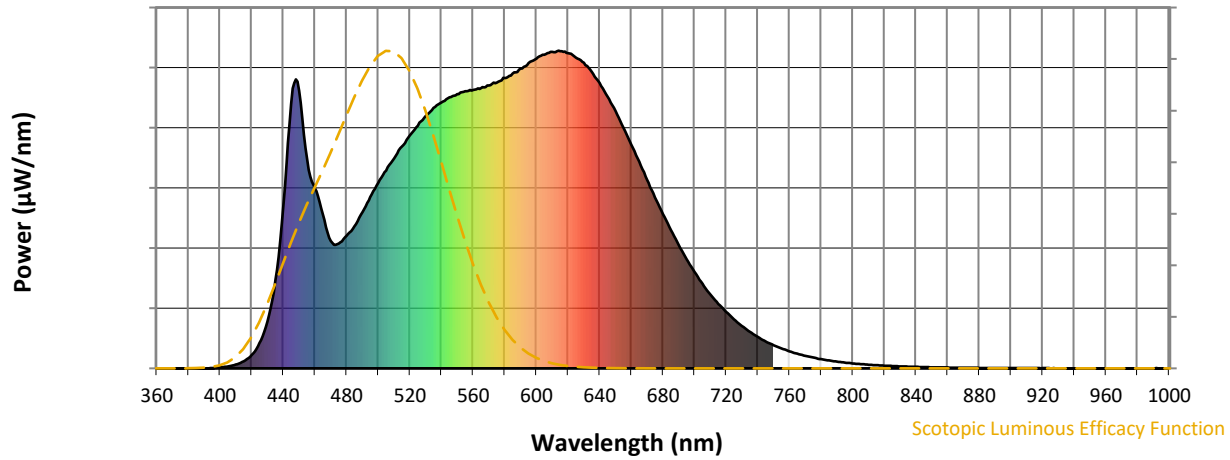


Photopic Lumens: NR

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Scotopic Flux vs. Wavelength



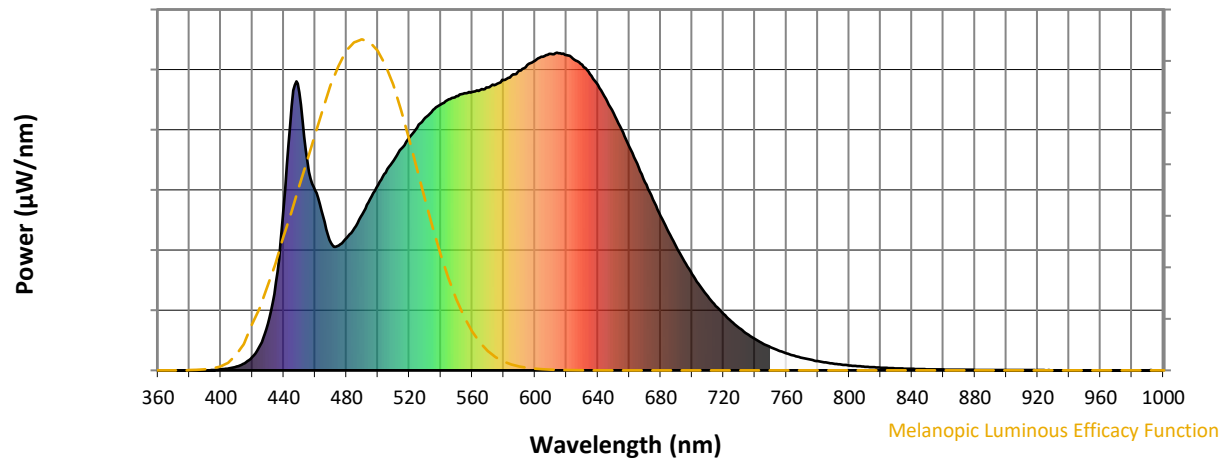
Scotopic Lumens: NR

S/P: 1.72

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.52

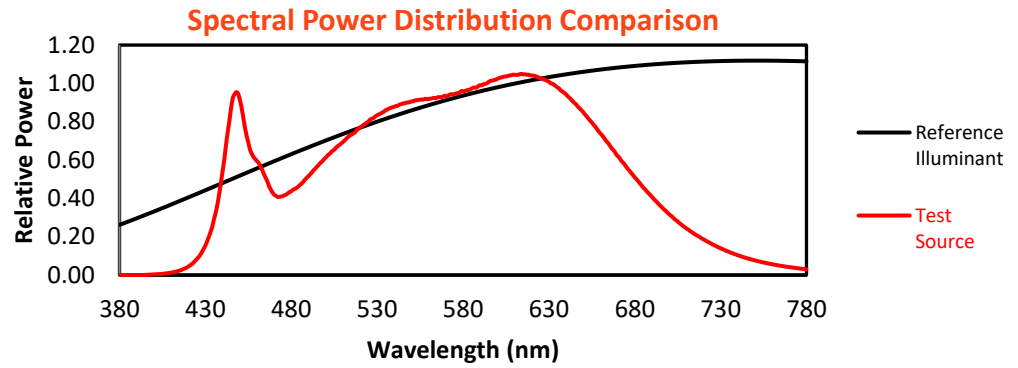
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

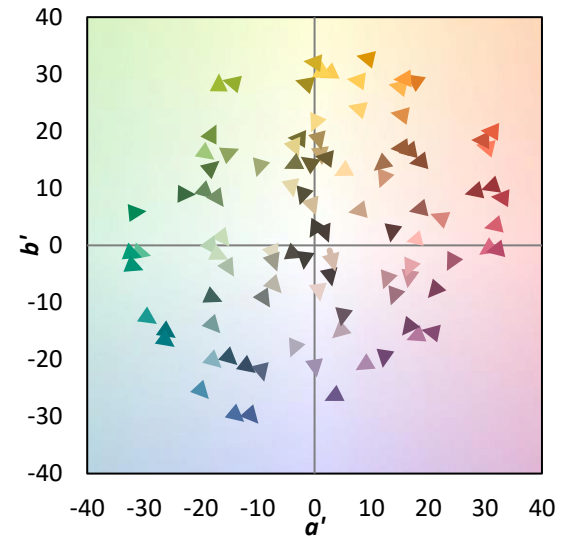
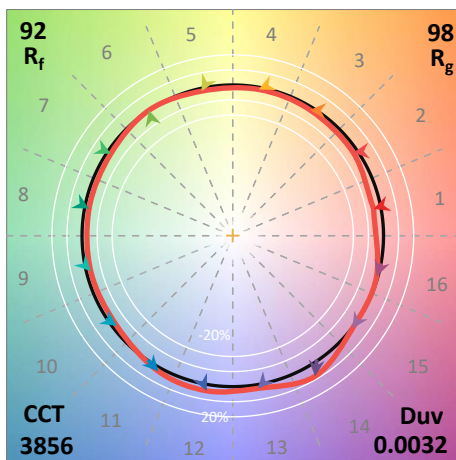
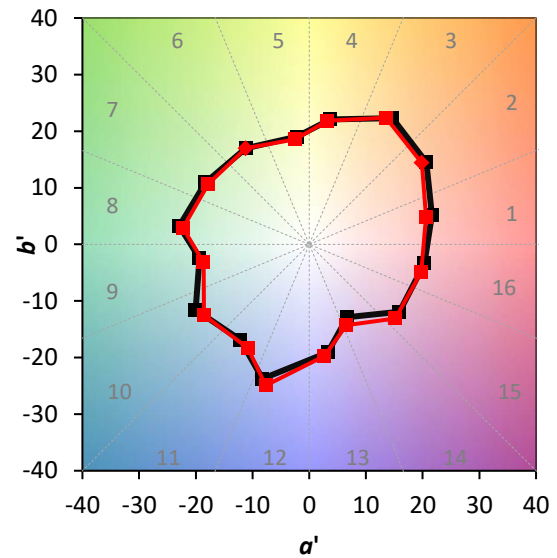
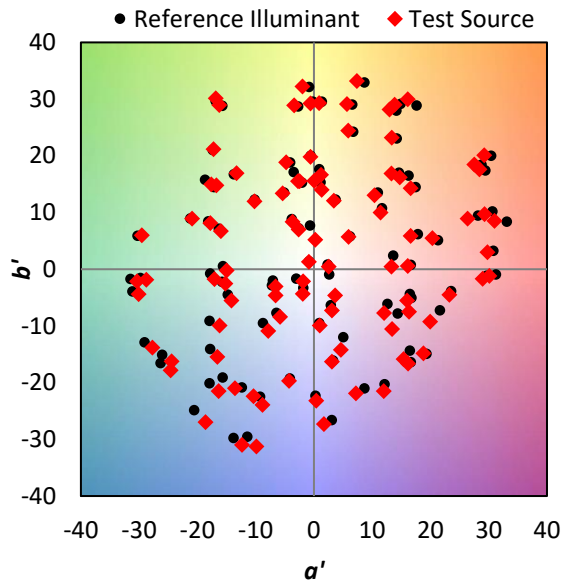
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 98.4$
 $CIE R_a = 92.1$
 $R_9 = 60.7$

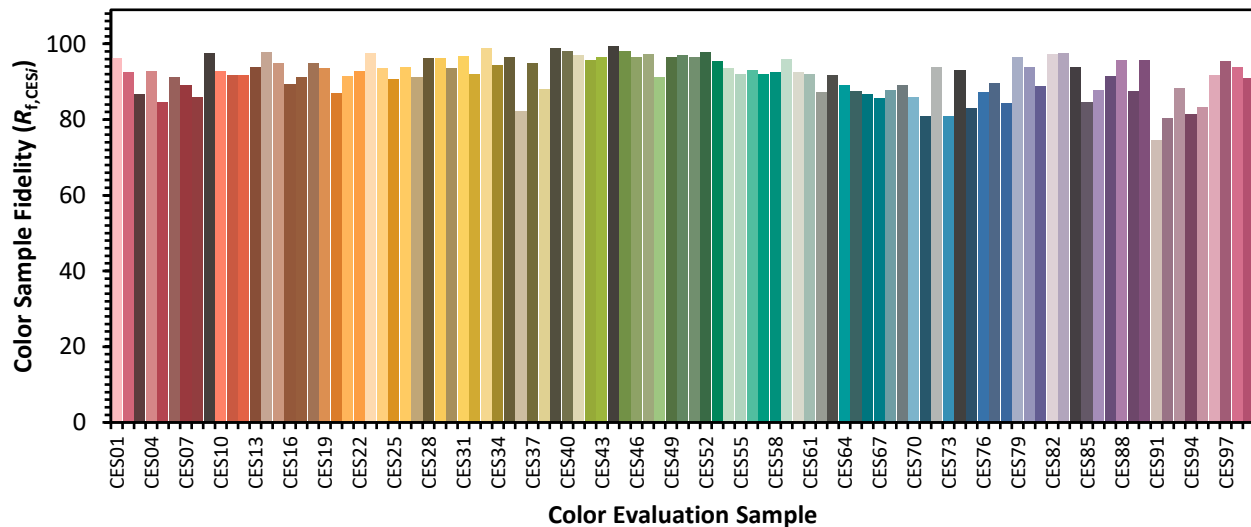


Color Vector Graphics

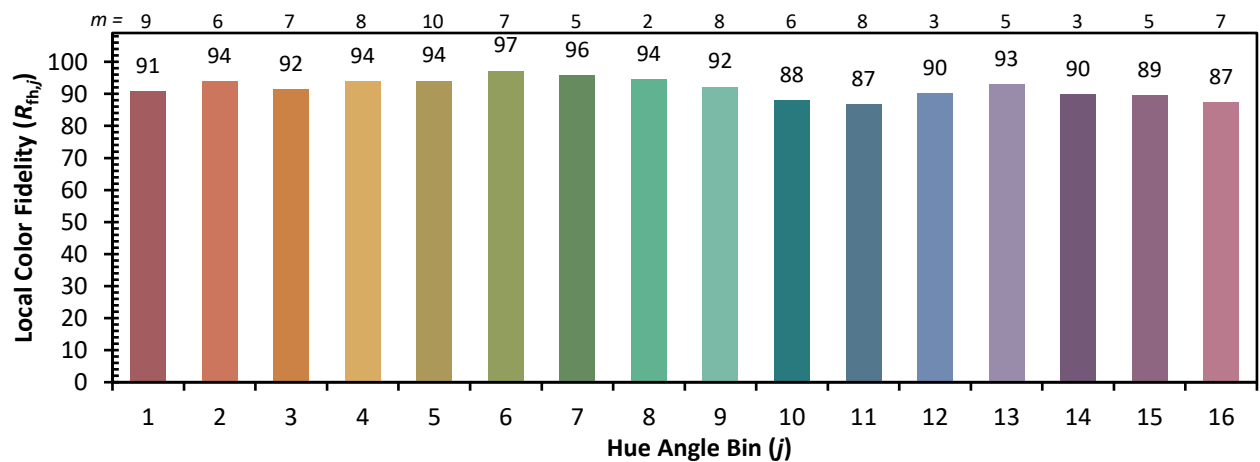
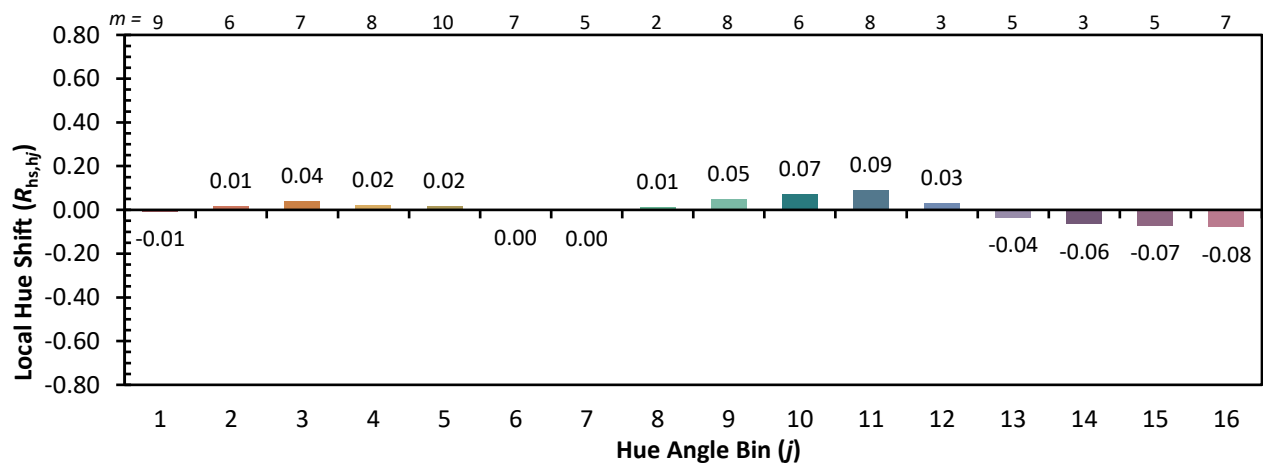
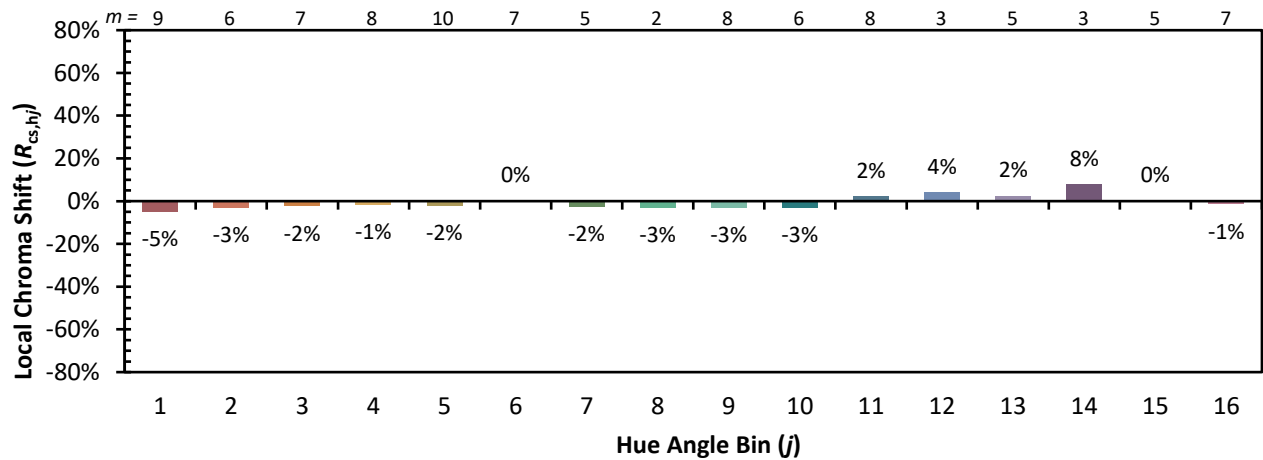


Individual Sample Fidelity Index ($R_{f,i}$)

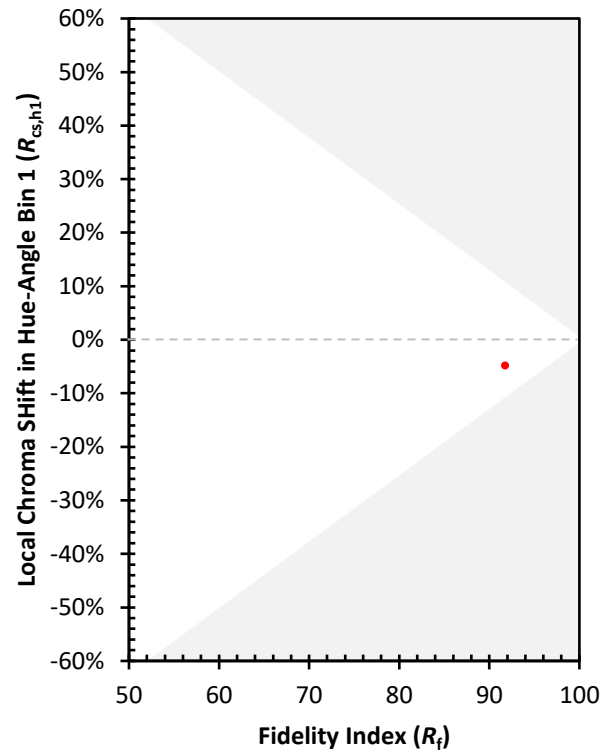
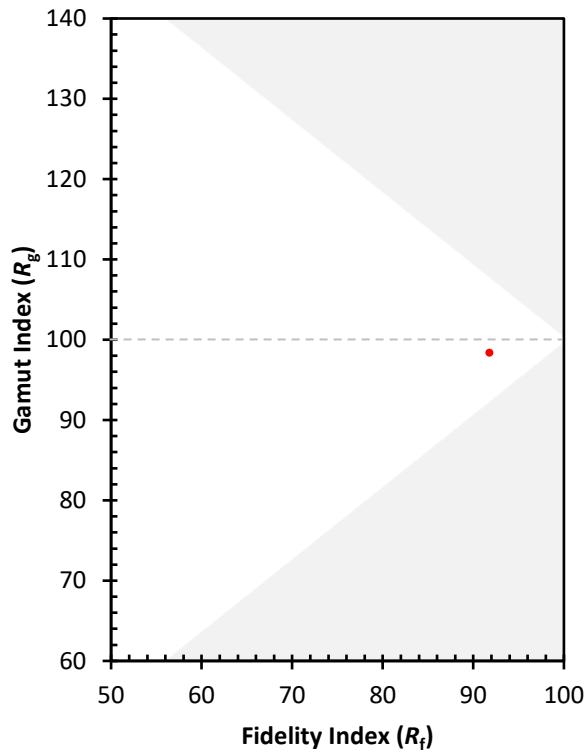
CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82 = 97
CES08 = 41	CES33 = 99	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 74	CES35 = 96	CES60 = 93	CES85 = 85
CES11 = 57	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 63	CES37 = 95	CES62 = 87	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 87	CES91 = 74
CES17 = 49	CES42 = 96	CES67 = 86	CES92 = 80
CES18 = 56	CES43 = 96	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 82
CES20 = 66	CES45 = 98	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 81	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 91	CES73 = 81	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 93	CES99 = 91
CES25 = 71	CES50 = 97	CES75 = 83	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)