

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: P1049769

Luminaire Tested: **GALN-SA6A-830-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049769
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17471.7 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

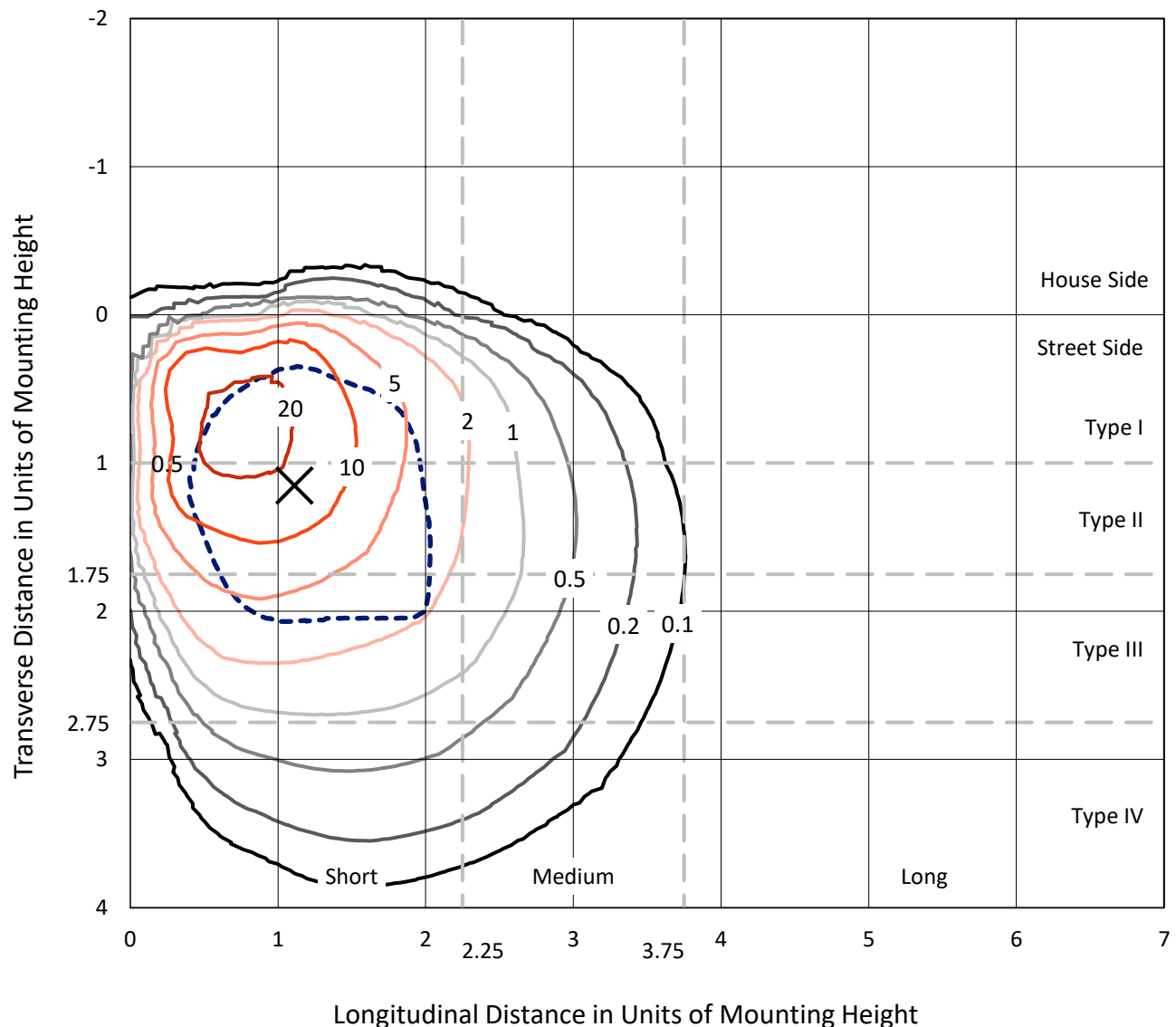
Input Watts (W): 162.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

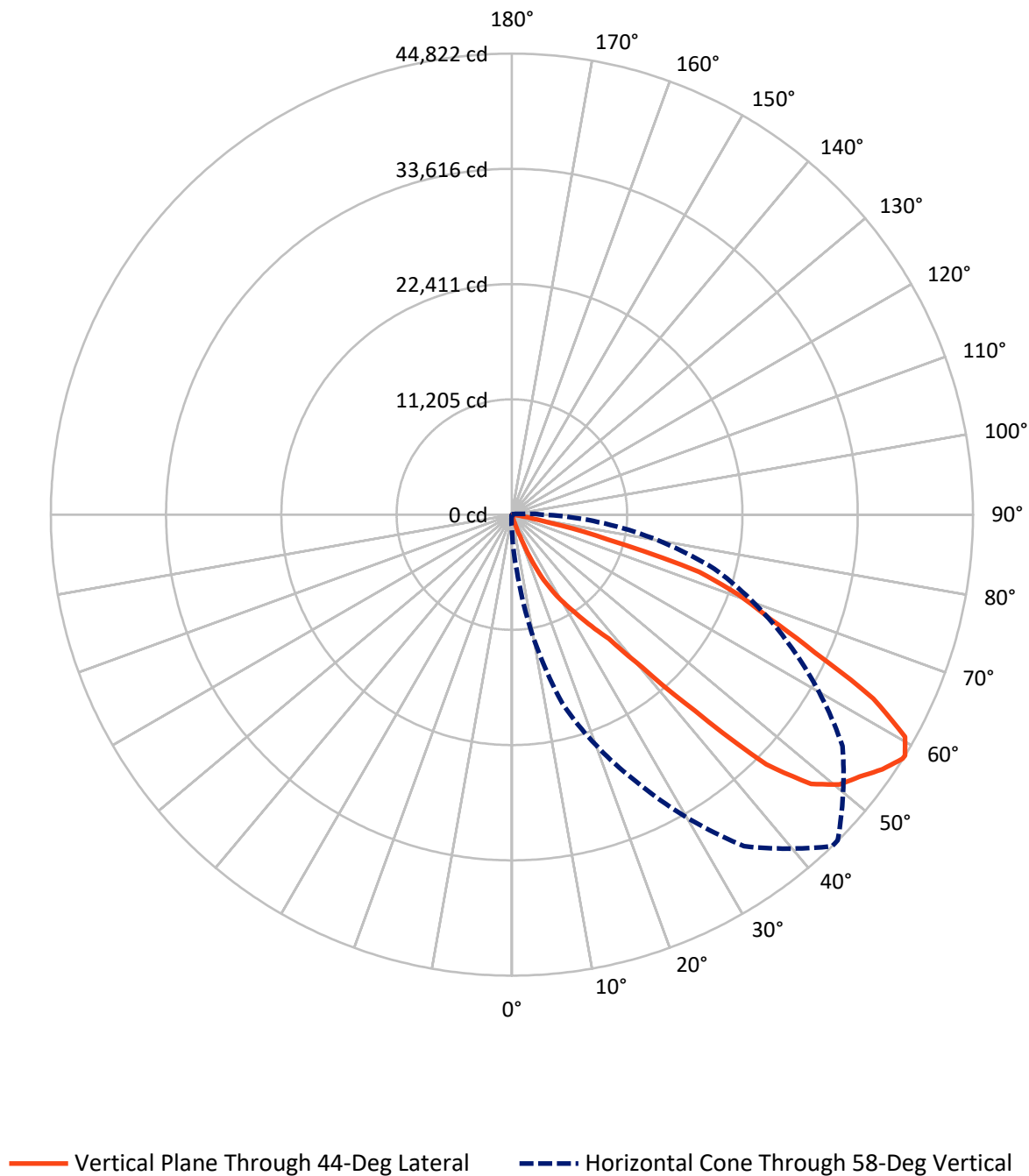


Based on 20 foot mounting height. Maximum calculated value = 30.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	119.3	0.0	119.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	17352.4	0.0	17352.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	17471.7	0.0	17471.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.0
10°-20°	38.3	0.2
20°-30°	413.9	2.4
30°-40°	1224.1	7.0
40°-50°	3648.4	20.9
50°-60°	5789.1	33.1
60°-70°	4828.8	27.6
70°-80°	1489.3	8.5
80°-90°	33.1	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°	17471.7	100.0
0°-180°	17471.7	100.0

Coefficient of Utilization



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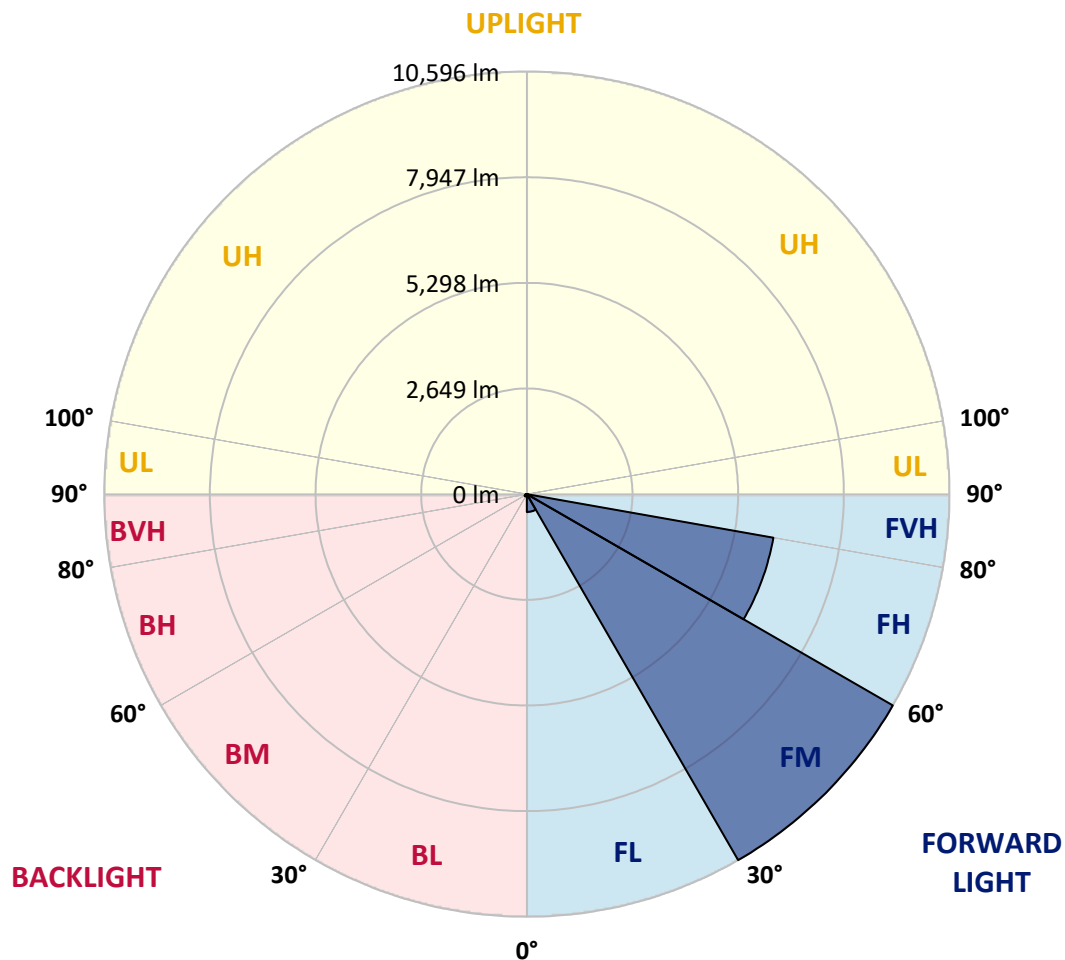
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	447.4	2.6			
FM	(30°-60°)	10596.2	60.6			
FH	(60°-80°)	6277.3	35.9			G3/7500
FVH	(80°-90°)	31.5	0.2			G1/100
BL	(0°-30°)	11.7	0.1	B0/110		
BM	(30°-60°)	65.3	0.4	B0/220		
BH	(60°-80°)	40.7	0.2	B0/110		G0/110
BVH	(80°-90°)	1.6	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°	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
2.5°	99.0	99.0	95.0	89.7	84.5	79.2	77.9	75.2	73.9	72.6
5°	102.9	102.9	101.6	97.7	92.4	88.4	88.4	84.5	81.8	79.2
7.5°	105.6	106.9	109.5	108.2	105.6	101.6	101.6	99.0	95.0	88.4
10°	109.5	113.5	118.8	121.4	122.7	122.7	121.4	120.1	113.5	104.3
12.5°	113.5	121.4	134.6	147.8	155.7	166.3	165.0	162.3	145.2	125.4
15°	121.4	133.3	161.0	199.3	258.7	295.6	310.2	297.0	240.2	168.9
17.5°	130.7	150.5	233.6	417.1	683.7	810.4	886.9	824.9	546.4	320.7
20°	139.9	183.5	434.2	1080.9	1773.9	2188.3	2303.1	2123.6	1363.4	611.1
22.5°	155.7	257.4	880.3	2234.5	3822.3	4443.9	4561.4	3987.2	2575.0	1206.3
25°	188.7	373.5	1517.8	3641.4	5704.3	6753.6	6704.8	5952.5	4177.3	1927.0
27.5°	236.3	543.8	2295.2	5173.8	7507.2	8432.4	8543.3	7612.8	5568.4	2833.7
30°	304.9	753.6	3129.3	6401.2	8952.5	9952.9	9971.4	9009.2	6813.0	3629.6
32.5°	370.9	951.6	3859.2	7587.8	10376.6	11473.4	11555.2	10371.3	7742.2	4458.4
35°	421.0	1080.9	4598.3	8630.4	11812.6	13323.8	13318.5	11912.9	8842.9	5198.8
37.5°	425.0	1210.3	5267.5	9696.9	13631.3	15323.3	15490.9	13941.5	10173.3	6114.8
40°	415.7	1355.5	6114.8	11359.9	16908.5	19504.6	19652.4	17699.0	12842.0	7682.8
42.5°	426.3	1607.6	7490.1	14431.1	22350.1	26078.7	26363.8	24310.1	17747.9	10882.1
45°	481.7	2081.4	10371.3	19569.2	30106.8	34652.4	34557.3	31599.6	23456.2	15752.3
47.5°	665.2	3241.5	14642.3	24570.1	35064.2	39112.1	39193.9	35578.9	26787.4	19496.7
50°	1022.9	4960.0	18230.9	27213.8	37195.7	41256.8	41180.3	37003.0	28053.2	21340.5
52.5°	1330.4	6203.2	20031.2	28141.6	37468.9	42316.7	42311.4	37377.8	28249.8	21498.9
55°	1406.9	6297.0	20045.7	28191.8	38081.3	43703.8	43878.0	38300.4	28504.6	20807.3
57.5°	1376.6	5575.0	19208.9	28482.1	39171.5	44776.8	44786.1	39193.9	29151.3	20383.6
58°	1350.2	5461.5	19040.0	28647.1	39358.9	44821.7	44799.3	39234.8	29677.9	20367.8
60°	1202.4	4742.2	18381.4	29068.1	39080.4	43900.5	43690.6	38341.3	29600.0	20205.4
62.5°	945.0	3699.5	17733.4	28581.1	36094.9	39440.7	39527.8	33944.9	26984.1	19259.1
65°	752.3	2757.1	16381.8	25070.3	29722.8	32388.8	32713.5	27603.1	22523.0	16307.9
67.5°	599.2	1993.0	13742.2	19959.9	23519.5	27031.6	27267.9	23175.0	17449.6	12494.9
70°	487.0	1347.6	9485.7	14597.4	19399.0	23347.9	23362.5	19252.5	13024.2	8187.0
72.5°	431.6	933.1	5506.4	10645.8	15729.8	19025.5	18641.4	15622.9	10009.7	4849.1
75°	373.5	619.0	2700.4	6508.1	9537.2	9601.8	9748.3	7247.2	5003.5	2305.8
77.5°	307.5	439.5	1063.8	1777.8	2860.1	3661.2	3797.2	2877.2	1664.3	567.5
80°	211.2	208.5	286.4	545.1	818.3	1025.5	956.9	740.4	435.5	217.8
82.5°	91.1	99.0	129.3	155.7	126.7	122.7	117.5	75.2	58.1	44.9
85°	29.0	26.4	27.7	27.7	22.4	17.2	17.2	7.9	0.0	0.0
87.5°	14.5	11.9	11.9	10.6	6.6	2.6	1.3	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°
76.6	0°	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
71.3	2.5°	70.0	70.0	67.3	64.7	63.4	60.7	59.4	58.1	56.8	55.4
76.6	5°	73.9	72.6	68.6	64.7	60.7	56.8	54.1	51.5	48.8	47.5
84.5	7.5°	80.5	77.9	70.0	63.4	58.1	52.8	50.2	46.2	43.6	39.6
93.7	10°	88.4	83.1	72.6	64.7	56.8	50.2	46.2	42.2	38.3	33.0
106.9	12.5°	99.0	89.7	76.6	63.4	54.1	46.2	42.2	37.0	33.0	29.0
124.1	15°	108.2	96.3	77.9	63.4	51.5	42.2	37.0	31.7	27.7	22.4
155.7	17.5°	121.4	101.6	76.6	59.4	47.5	37.0	31.7	27.7	21.1	13.2
231.0	20°	143.9	105.6	73.9	55.4	40.9	30.4	23.8	18.5	9.2	2.6
347.1	22.5°	179.5	116.1	71.3	50.2	35.6	23.8	15.8	6.6	0.0	0.0
527.9	25°	248.1	134.6	71.3	47.5	31.7	17.2	5.3	0.0	0.0	0.0
749.7	27.5°	330.0	159.7	71.3	40.9	25.1	9.2	0.0	0.0	0.0	0.0
1021.6	30°	413.1	187.4	71.3	35.6	19.8	1.3	0.0	0.0	0.0	0.0
1257.8	32.5°	492.3	211.2	72.6	30.4	13.2	0.0	0.0	0.0	0.0	0.0
1585.1	35°	572.8	215.1	71.3	26.4	7.9	0.0	0.0	0.0	0.0	0.0
1986.4	37.5°	675.8	207.2	67.3	23.8	4.0	0.0	0.0	0.0	0.0	0.0
2613.3	40°	831.5	211.2	63.4	22.4	1.3	0.0	0.0	0.0	0.0	0.0
3731.2	42.5°	1119.2	228.3	58.1	22.4	0.0	0.0	0.0	0.0	0.0	0.0
5943.2	45°	1934.9	306.2	52.8	23.8	0.0	0.0	0.0	0.0	0.0	0.0
8922.1	47.5°	3200.6	550.4	51.5	23.8	0.0	0.0	0.0	0.0	0.0	0.0
10747.4	50°	4084.9	692.9	54.1	25.1	0.0	0.0	0.0	0.0	0.0	0.0
10975.8	52.5°	4078.3	772.1	56.8	26.4	5.3	0.0	0.0	0.0	0.0	0.0
10116.6	55°	3625.6	786.6	60.7	29.0	17.2	0.0	0.0	0.0	0.0	0.0
8693.8	57.5°	3030.3	718.0	70.0	35.6	31.7	0.0	0.0	0.0	0.0	0.0
8470.7	58°	2924.8	686.3	72.6	37.0	34.3	0.0	0.0	0.0	0.0	0.0
7347.5	60°	2396.8	559.6	92.4	46.2	46.2	0.0	0.0	0.0	0.0	0.0
6023.7	62.5°	1655.1	488.3	105.6	59.4	47.5	0.0	0.0	0.0	0.0	0.0
4441.3	65°	1170.7	440.8	114.8	63.4	38.3	0.0	0.0	0.0	0.0	0.0
3155.7	67.5°	875.1	406.5	126.7	64.7	19.8	0.0	0.0	0.0	0.0	0.0
1979.8	70°	670.5	381.4	155.7	68.6	5.3	0.0	0.0	0.0	0.0	0.0
1179.9	72.5°	546.4	352.4	188.7	71.3	0.0	0.0	0.0	0.0	0.0	0.0
707.4	75°	452.7	318.1	182.1	77.9	0.0	0.0	0.0	0.0	0.0	0.0
377.5	77.5°	300.9	246.8	166.3	77.9	0.0	0.0	0.0	0.0	0.0	0.0
134.6	80°	105.6	97.7	129.3	68.6	0.0	0.0	0.0	0.0	0.0	0.0
27.7	82.5°	15.8	13.2	18.5	23.8	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°
76.6	0°	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
54.1	2.5°	54.1	54.1	52.8	54.1	54.1	56.8	63.4	72.6	83.1	87.1
46.2	5°	44.9	43.6	42.2	42.2	42.2	46.2	51.5	62.0	73.9	79.2
38.3	7.5°	37.0	35.6	34.3	33.0	33.0	35.6	42.2	54.1	66.0	71.3
31.7	10°	30.4	27.7	26.4	25.1	25.1	27.7	34.3	46.2	59.4	64.7
26.4	12.5°	25.1	21.1	18.5	17.2	15.8	19.8	26.4	37.0	51.5	58.1
19.8	15°	17.2	13.2	9.2	7.9	6.6	10.6	17.2	29.0	43.6	51.5
10.6	17.5°	9.2	4.0	1.3	0.0	0.0	2.6	7.9	21.1	35.6	42.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	26.4	33.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	15.8	22.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	11.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
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	4.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.6
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°
76.6	0°	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
91.1	2.5°	93.7	92.4	89.7	87.1	87.1	87.1	91.1	95.0	99.0	99.0
81.8	5°	87.1	87.1	85.8	83.1	83.1	84.5	89.7	96.3	101.6	102.9
75.2	7.5°	80.5	83.1	80.5	79.2	80.5	81.8	87.1	95.0	102.9	105.6
70.0	10°	76.6	77.9	77.9	76.6	76.6	79.2	84.5	95.0	105.6	109.5
63.4	12.5°	71.3	73.9	72.6	72.6	72.6	75.2	81.8	93.7	108.2	113.5
56.8	15°	66.0	70.0	70.0	68.6	68.6	70.0	79.2	92.4	112.2	121.4
48.8	17.5°	60.7	64.7	66.0	63.4	63.4	66.0	75.2	92.4	114.8	130.7
39.6	20°	50.2	56.8	60.7	56.8	56.8	59.4	68.6	87.1	116.1	139.9
29.0	22.5°	39.6	46.2	51.5	50.2	50.2	51.5	63.4	83.1	117.5	155.7
17.2	25°	29.0	35.6	39.6	42.2	42.2	46.2	58.1	80.5	122.7	188.7
7.9	27.5°	17.2	25.1	30.4	33.0	34.3	39.6	54.1	77.9	132.0	236.3
0.0	30°	7.9	14.5	21.1	26.4	26.4	35.6	50.2	75.2	143.9	304.9
0.0	32.5°	0.0	6.6	10.6	18.5	19.8	29.0	46.2	72.6	161.0	370.9
0.0	35°	0.0	0.0	5.3	14.5	14.5	23.8	42.2	70.0	187.4	421.0
0.0	37.5°	0.0	0.0	0.0	10.6	11.9	21.1	40.9	68.6	192.7	425.0
0.0	40°	0.0	0.0	0.0	7.9	9.2	19.8	40.9	70.0	174.2	415.7
0.0	42.5°	0.0	0.0	0.0	5.3	6.6	19.8	40.9	72.6	157.1	426.3
0.0	45°	0.0	0.0	0.0	4.0	5.3	21.1	39.6	71.3	147.8	481.7
0.0	47.5°	0.0	0.0	0.0	5.3	7.9	21.1	38.3	70.0	149.1	665.2
0.0	50°	0.0	0.0	0.0	6.6	9.2	21.1	39.6	67.3	163.7	1022.9
0.0	52.5°	0.0	0.0	0.0	5.3	7.9	23.8	43.6	66.0	178.2	1330.4
0.0	55°	0.0	0.0	0.0	1.3	4.0	30.4	47.5	66.0	200.6	1406.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	34.3	54.1	70.0	237.6	1376.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	34.3	55.4	70.0	240.2	1350.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	34.3	60.7	77.9	258.7	1202.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	29.0	72.6	97.7	269.2	945.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	23.8	85.8	106.9	277.2	752.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	22.4	88.4	108.2	281.1	599.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	23.8	87.1	116.1	294.3	487.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	26.4	79.2	128.0	294.3	431.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	27.7	73.9	143.9	267.9	373.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	26.4	72.6	167.6	238.9	307.5
0.0	80°	2.6	4.0	4.0	2.6	2.6	22.4	71.3	170.3	203.3	211.2
1.3	82.5°	7.9	10.6	9.2	6.6	6.6	19.8	63.4	142.5	105.6	91.1
7.9	85°	14.5	17.2	17.2	14.5	14.5	18.5	39.6	51.5	35.6	29.0
14.5	87.5°	19.8	22.4	22.4	19.8	19.8	18.5	17.2	15.8	14.5	14.5
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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

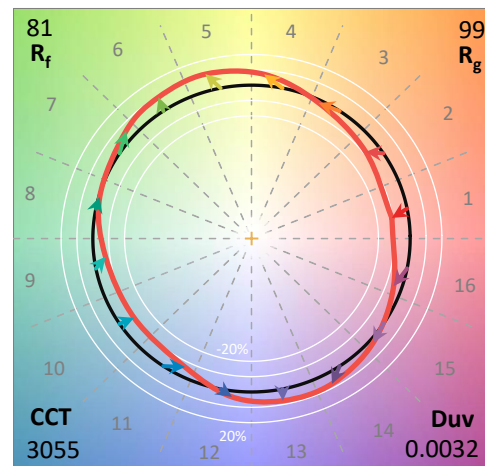
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

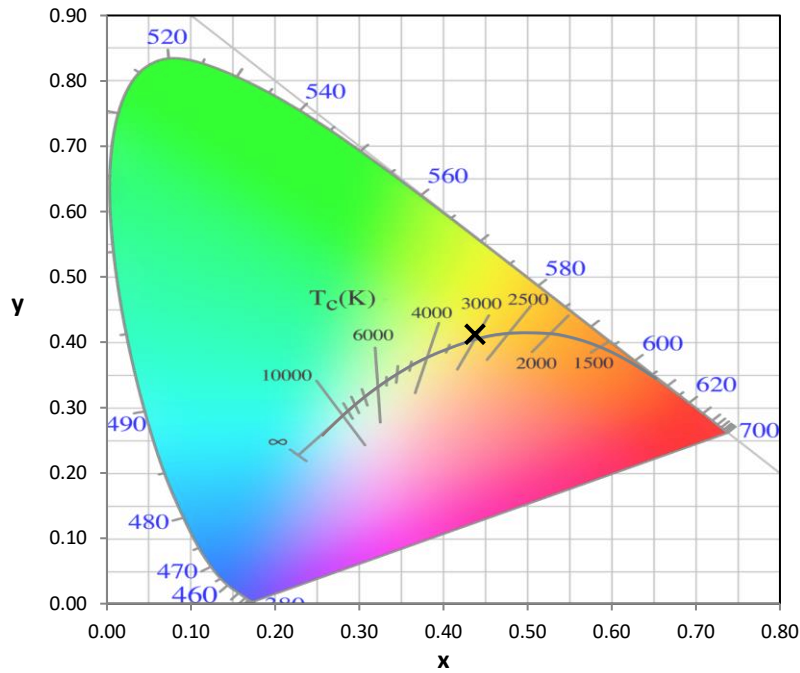
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

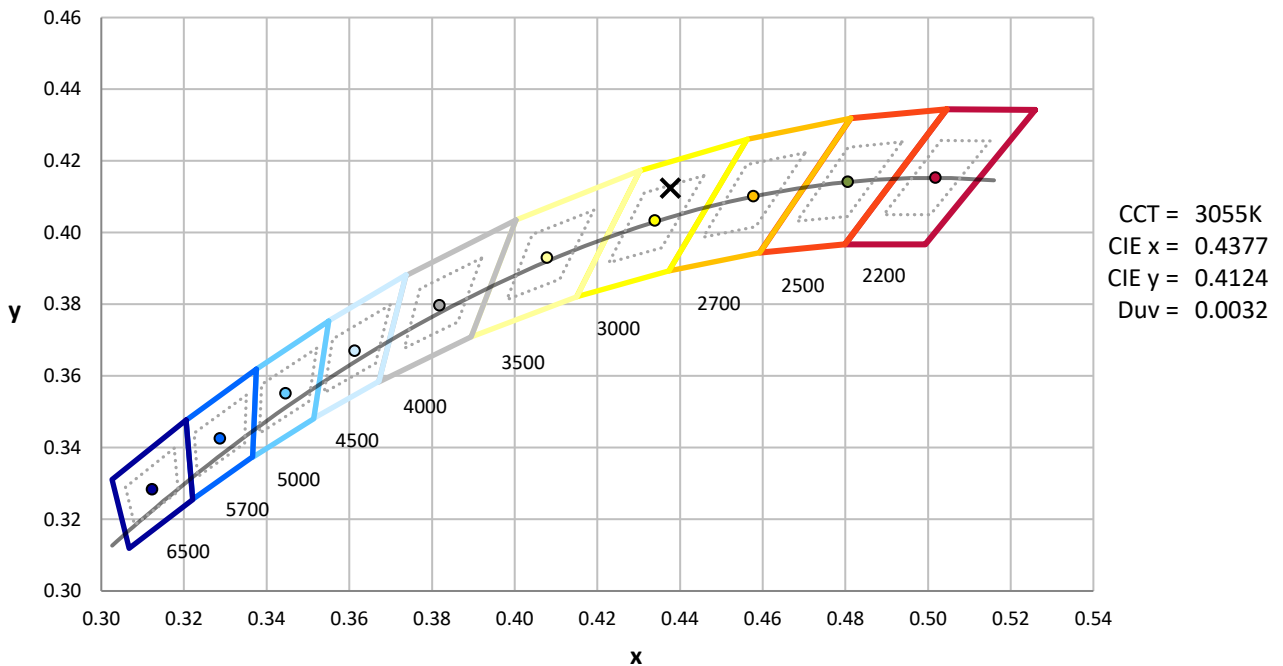
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



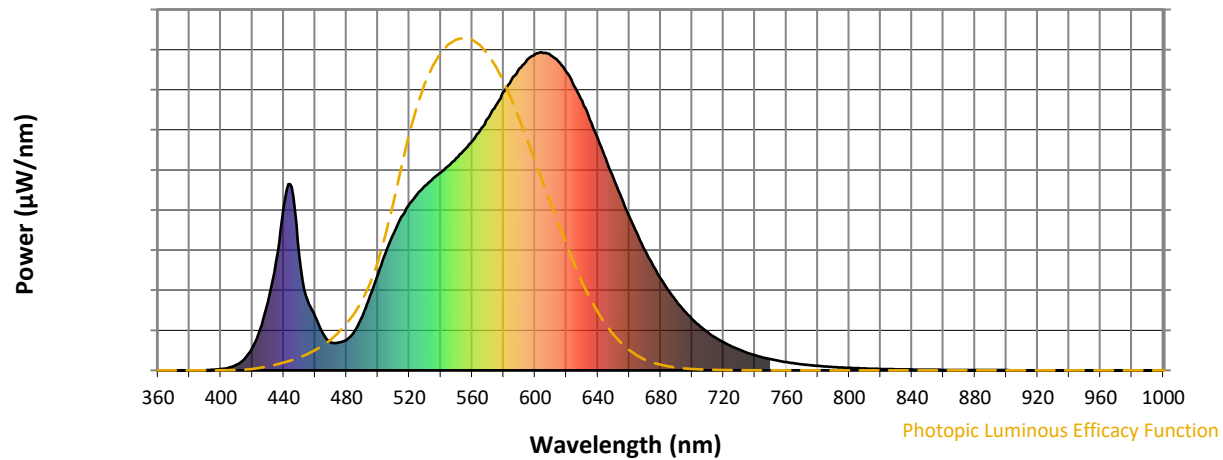
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

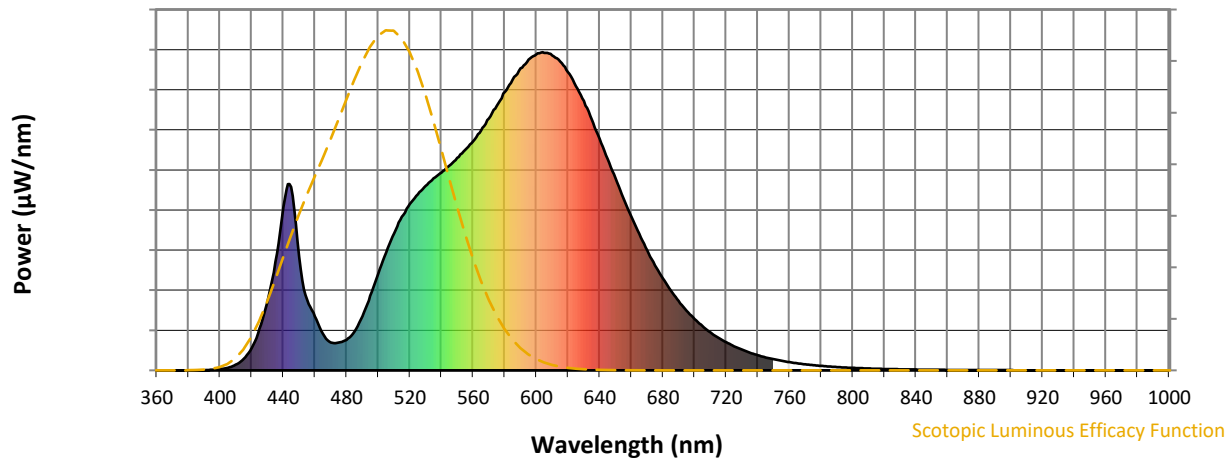


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



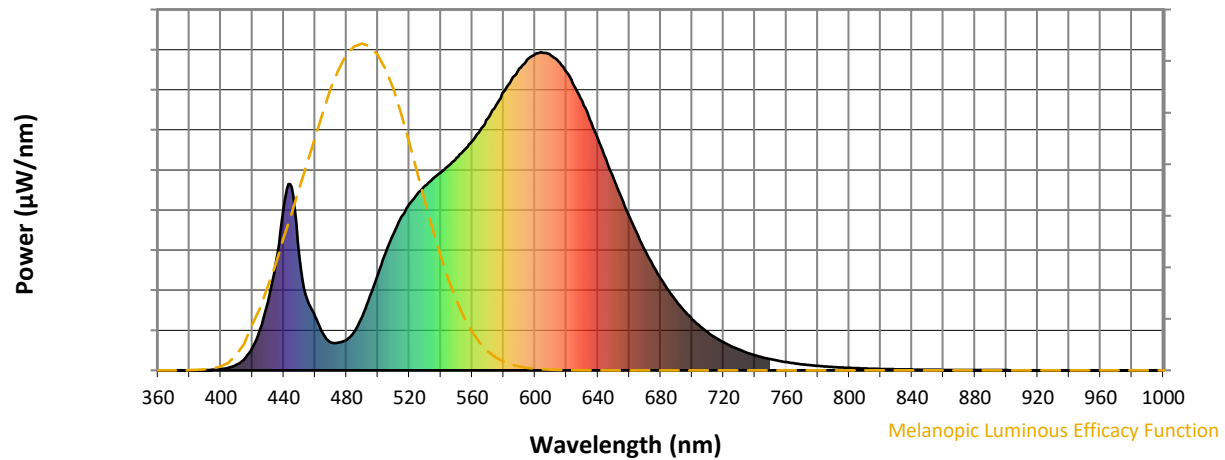
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

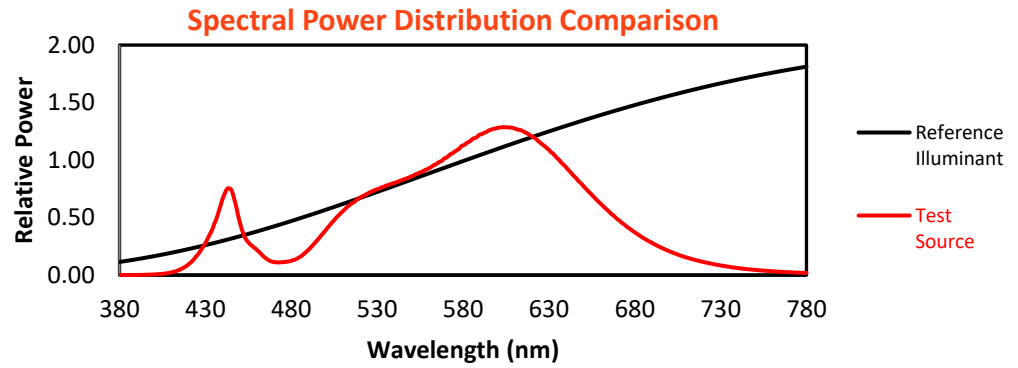
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

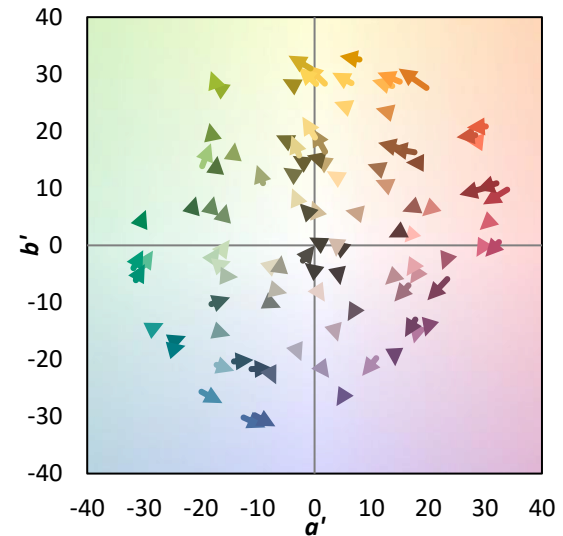
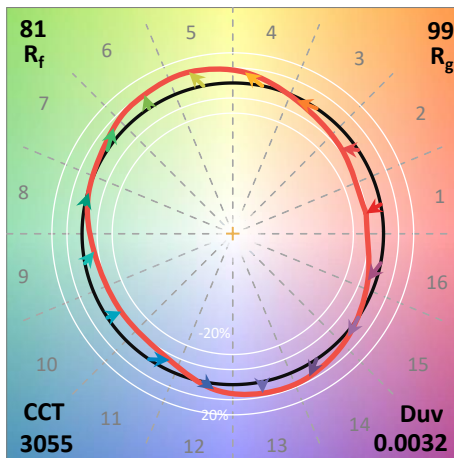
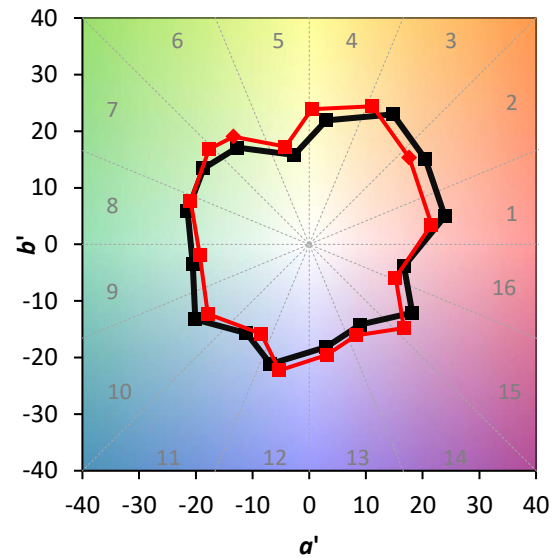
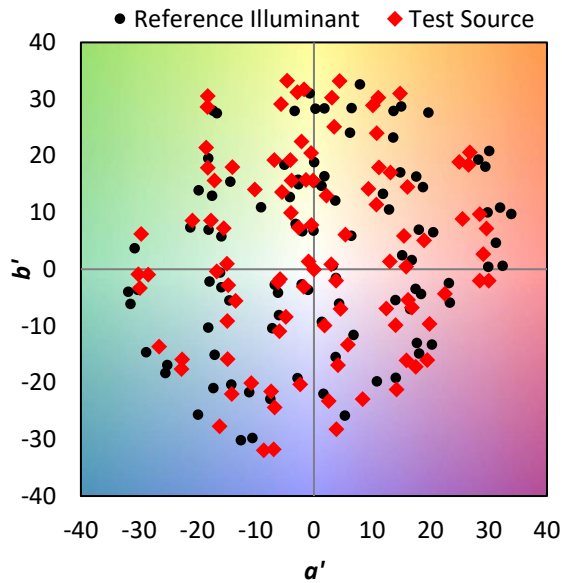
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

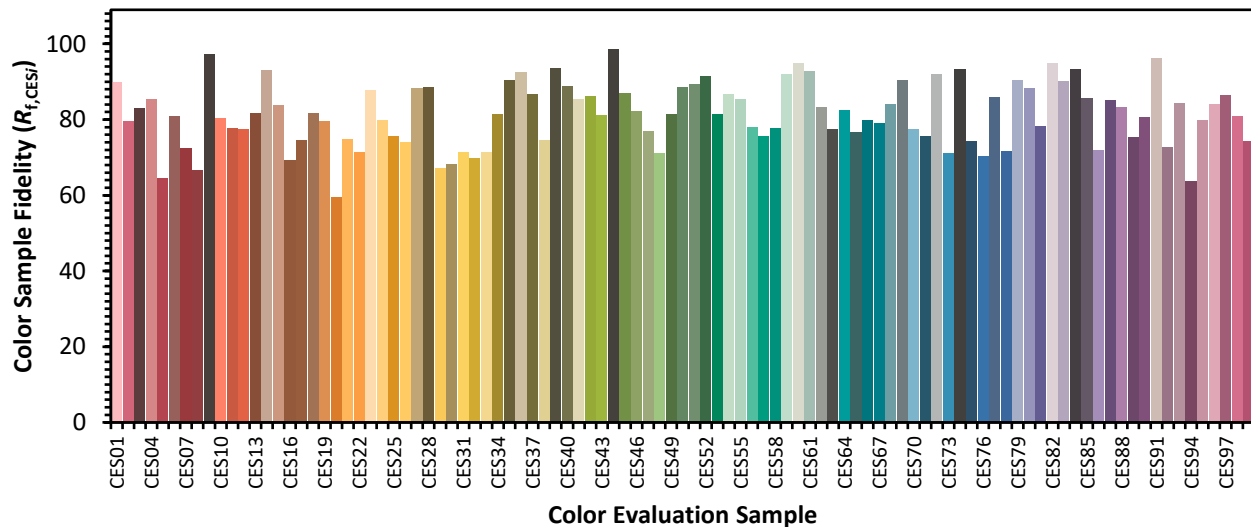


Color Vector Graphics

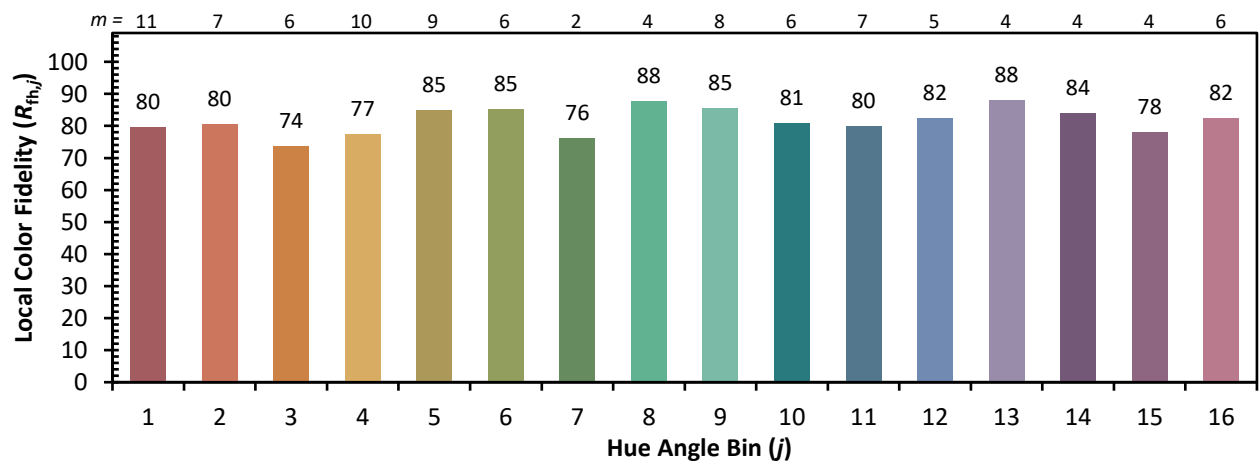
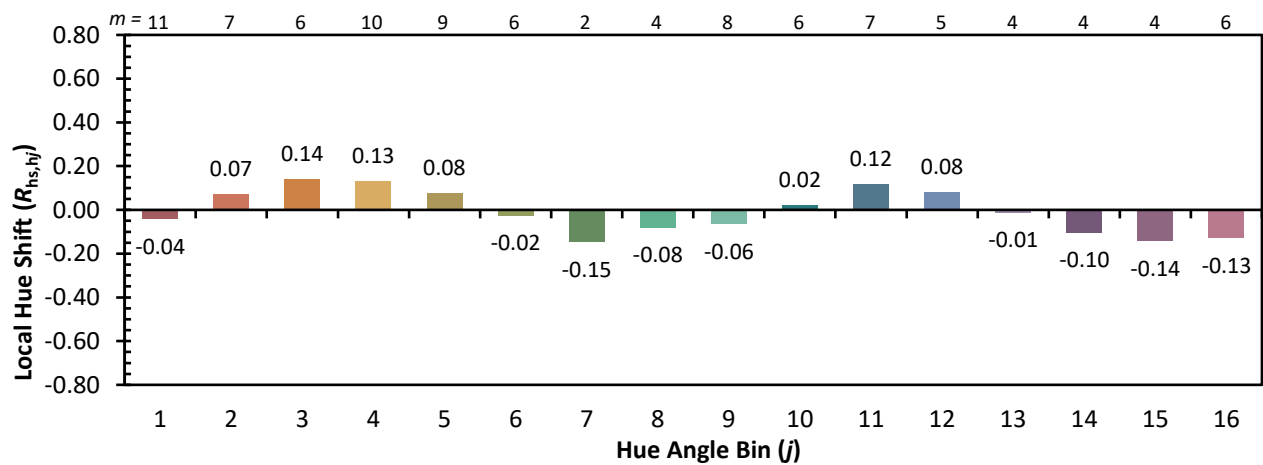
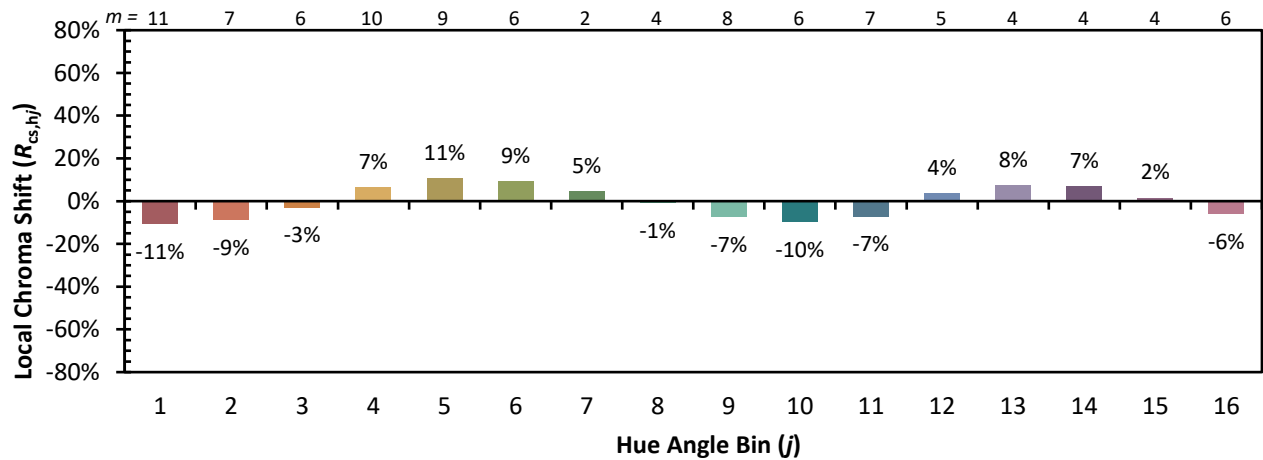


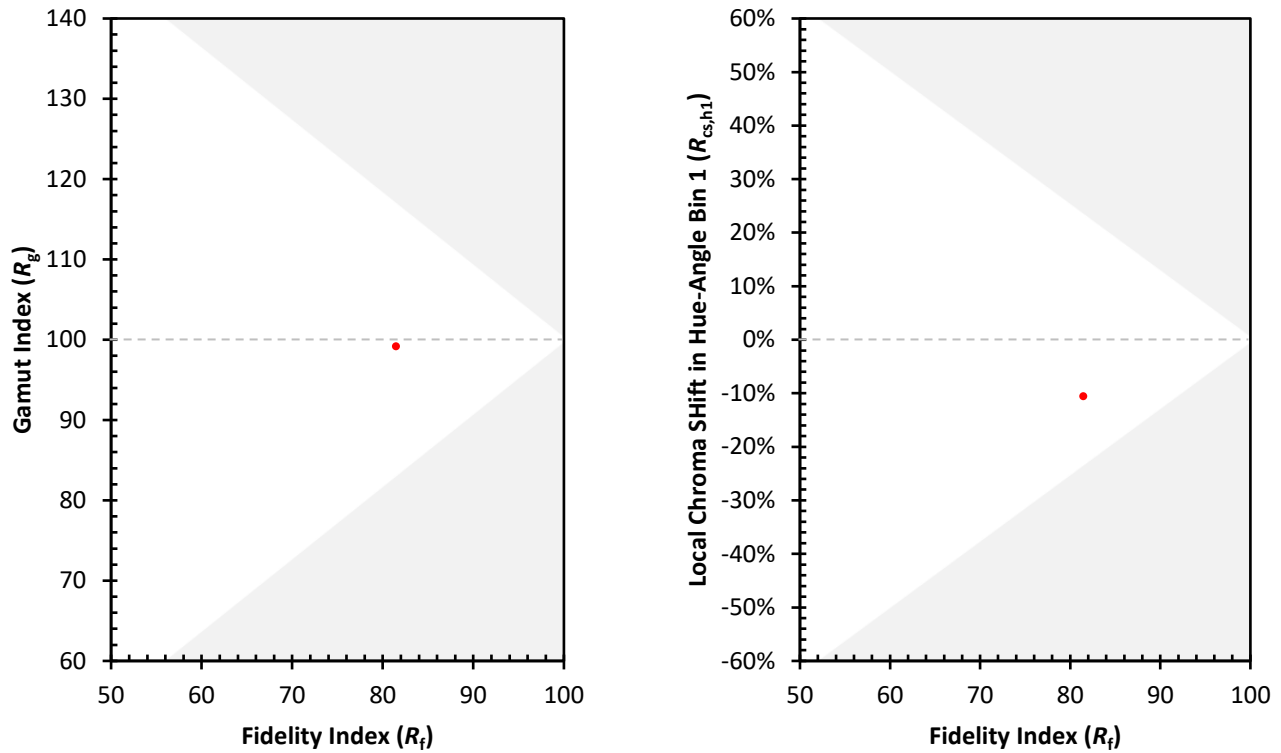
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)