

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: P1049841

Luminaire Tested: **GALN-SA6A-840-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049841
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE
80CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

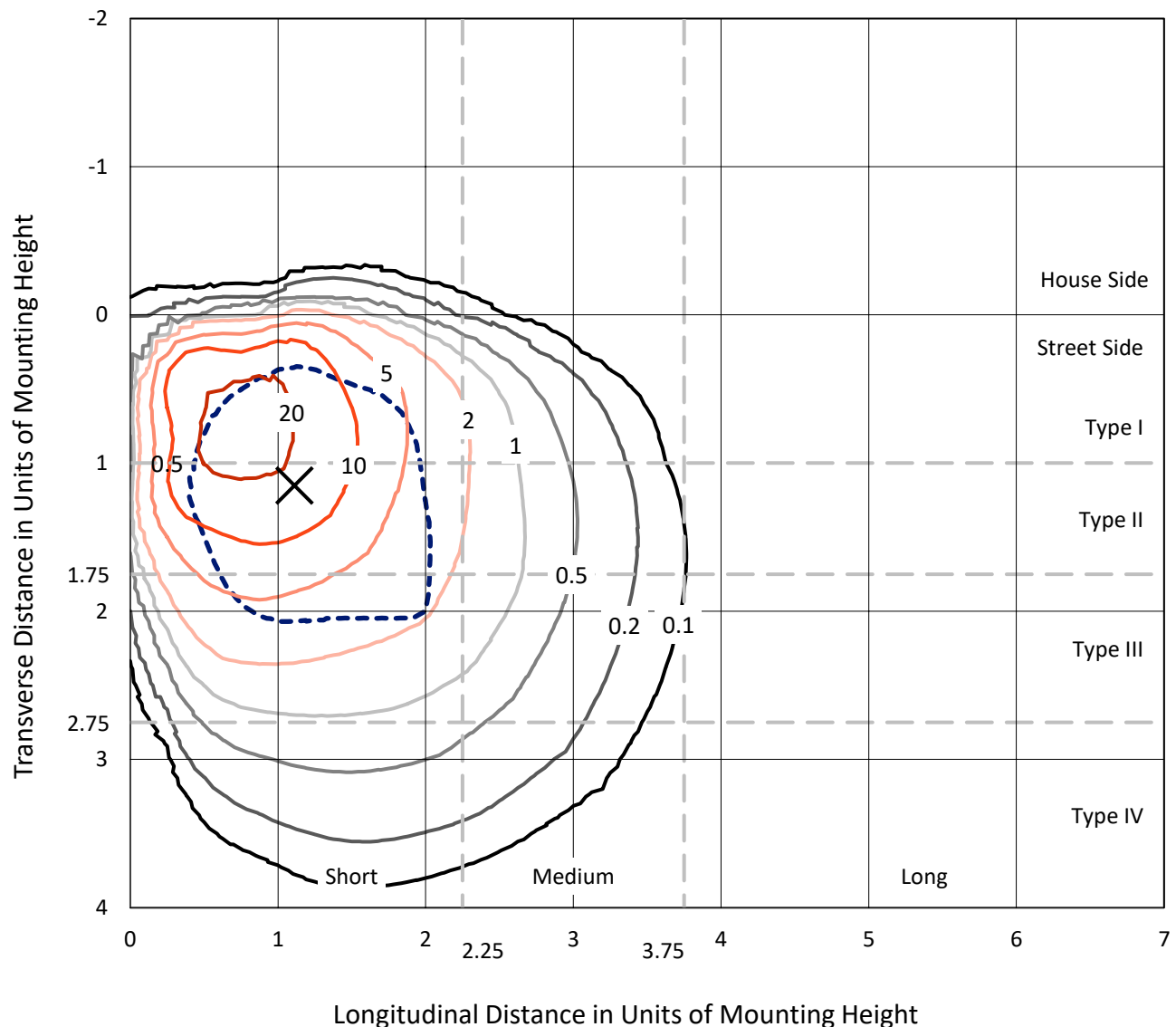
Lumens per Lamp: N/A
Luminaire Lumens: 17716.6 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

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

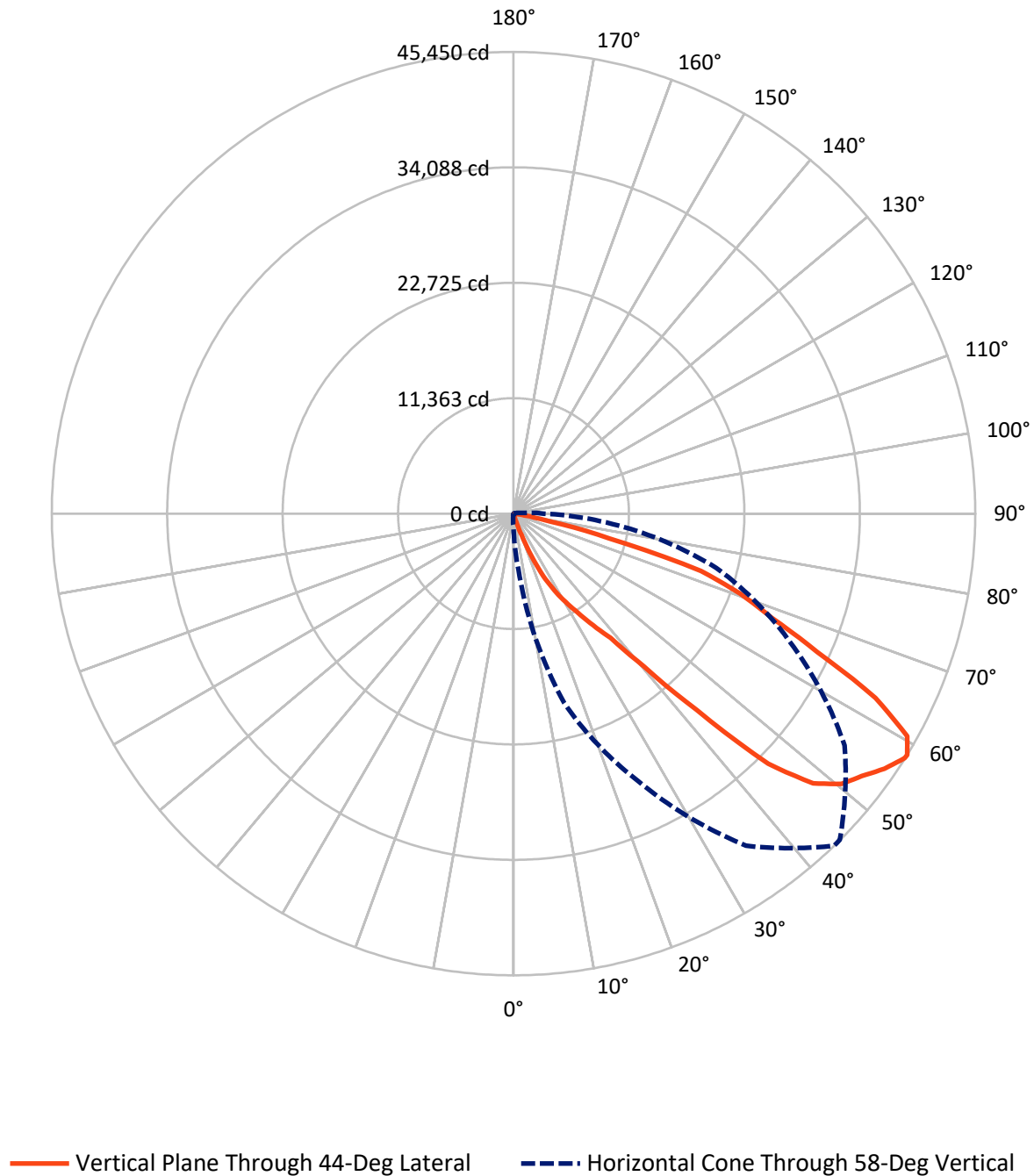
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.8 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	121.0	0.0	121.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	17595.7	0.0	17595.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	17716.6	0.0	17716.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	0.0
10°-20°	38.9	0.2
20°-30°	419.7	2.4
30°-40°	1241.2	7.0
40°-50°	3699.5	20.9
50°-60°	5870.2	33.1
60°-70°	4896.5	27.6
70°-80°	1510.2	8.5
80°-90°	33.5	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°	17716.6	100.0
0°-180°	17716.6	100.0



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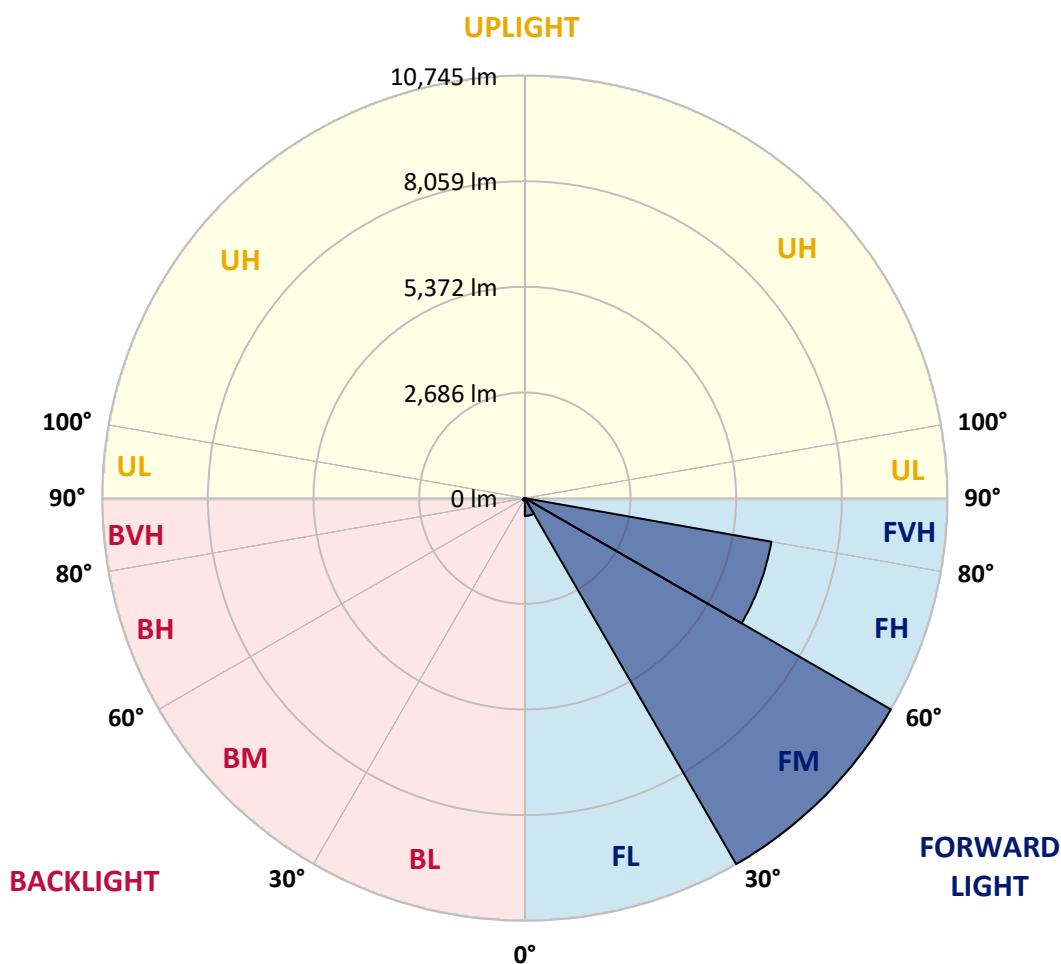
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	453.7	2.6			
FM	(30°-60°)	10744.8	60.6			
FH	(60°-80°)	6365.3	35.9			G3/7500
FVH	(80°-90°)	31.9	0.2			G1/100
BL	(0°-30°)	11.8	0.1	B0/110		
BM	(30°-60°)	66.2	0.4	B0/220		
BH	(60°-80°)	41.3	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°	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
2.5°	100.4	100.4	96.4	91.0	85.7	80.3	79.0	76.3	74.9	73.6
5°	104.4	104.4	103.1	99.0	93.7	89.7	89.7	85.7	83.0	80.3
7.5°	107.1	108.4	111.1	109.7	107.1	103.1	103.1	100.4	96.4	89.7
10°	111.1	115.1	120.5	123.1	124.5	124.5	123.1	121.8	115.1	105.7
12.5°	115.1	123.1	136.5	149.9	157.9	168.6	167.3	164.6	147.2	127.1
15°	123.1	135.2	163.3	202.1	262.3	299.8	314.5	301.1	243.6	171.3
17.5°	132.5	152.6	236.9	422.9	693.3	821.7	899.4	836.5	554.1	325.2
20°	141.9	186.0	440.3	1096.1	1798.7	2219.0	2335.4	2153.4	1382.5	619.7
22.5°	157.9	261.0	892.7	2265.8	3875.8	4506.2	4625.3	4043.1	2611.1	1223.2
25°	191.4	378.8	1539.1	3692.5	5784.3	6848.3	6798.8	6035.9	4235.8	1954.0
27.5°	239.6	551.4	2327.4	5246.3	7612.5	8550.7	8663.1	7719.6	5646.5	2873.4
30°	309.2	764.2	3173.2	6491.0	9078.0	10092.4	10111.2	9135.5	6908.5	3680.4
32.5°	376.1	964.9	3913.3	7694.1	10522.0	11634.2	11717.2	10516.7	7850.7	4520.9
35°	426.9	1096.1	4662.8	8751.4	11978.2	13510.6	13505.2	12079.9	8966.9	5271.7
37.5°	430.9	1227.3	5341.3	9832.8	13822.4	15538.1	15708.1	14136.9	10315.9	6200.5
40°	421.6	1374.5	6200.5	11519.1	17145.5	19778.0	19927.9	17947.2	13022.1	7790.5
42.5°	432.3	1630.1	7595.1	14633.4	22663.5	26444.3	26733.4	24650.9	17996.7	11034.6
45°	488.5	2110.6	10516.7	19843.6	30528.9	35138.1	35041.8	32042.6	23785.0	15973.1
47.5°	674.5	3287.0	14847.6	24914.6	35555.7	39660.4	39743.4	36077.7	27163.0	19770.0
50°	1037.2	5029.5	18486.5	27595.3	37717.1	41835.2	41757.6	37521.7	28446.4	21639.6
52.5°	1349.0	6290.2	20312.0	28536.1	37994.2	42909.9	42904.5	37901.8	28645.9	21800.2
55°	1426.7	6385.2	20326.7	28587.0	38615.2	44316.5	44493.2	38837.3	28904.2	21098.9
57.5°	1395.9	5653.2	19478.2	28881.4	39720.6	45404.6	45413.9	39743.4	29559.9	20669.3
58°	1369.1	5538.1	19306.9	29048.7	39910.7	45450.1	45427.3	39784.9	30093.9	20653.3
60°	1219.2	4808.7	18639.1	29475.6	39628.3	44515.9	44303.1	38878.8	30015.0	20488.7
62.5°	958.3	3751.4	17982.0	28981.8	36601.0	39993.6	40082.0	34420.8	27362.4	19529.1
65°	762.9	2795.8	16611.5	25421.8	30139.4	32842.9	33172.1	27990.1	22838.8	16536.5
67.5°	607.6	2020.9	13934.8	20239.7	23849.2	27410.6	27650.1	23499.9	17694.2	12670.1
70°	493.8	1366.4	9618.7	14802.1	19670.9	23675.3	23690.0	19522.4	13206.8	8301.7
72.5°	437.6	946.2	5583.6	10795.1	15950.3	19292.2	18902.7	15841.9	10150.0	4917.1
75°	378.8	627.7	2738.2	6599.4	9670.9	9736.4	9885.0	7348.8	5073.7	2338.1
77.5°	311.8	445.7	1078.7	1802.7	2900.2	3712.6	3850.4	2917.6	1687.6	575.5
80°	214.1	211.5	290.4	552.7	829.8	1039.9	970.3	750.8	441.7	220.8
82.5°	92.3	100.4	131.2	157.9	128.5	124.5	119.1	76.3	58.9	45.5
85°	29.4	26.8	28.1	28.1	22.8	17.4	17.4	8.0	0.0	0.0
87.5°	14.7	12.0	12.0	10.7	6.7	2.7	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°
77.6	0°	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
72.3	2.5°	70.9	70.9	68.3	65.6	64.2	61.6	60.2	58.9	57.5	56.2
77.6	5°	74.9	73.6	69.6	65.6	61.6	57.5	54.9	52.2	49.5	48.2
85.7	7.5°	81.6	79.0	70.9	64.2	58.9	53.5	50.9	46.8	44.2	40.2
95.0	10°	89.7	84.3	73.6	65.6	57.5	50.9	46.8	42.8	38.8	33.5
108.4	12.5°	100.4	91.0	77.6	64.2	54.9	46.8	42.8	37.5	33.5	29.4
125.8	15°	109.7	97.7	79.0	64.2	52.2	42.8	37.5	32.1	28.1	22.8
157.9	17.5°	123.1	103.1	77.6	60.2	48.2	37.5	32.1	28.1	21.4	13.4
234.2	20°	145.9	107.1	74.9	56.2	41.5	30.8	24.1	18.7	9.4	2.7
352.0	22.5°	182.0	117.8	72.3	50.9	36.1	24.1	16.1	6.7	0.0	0.0
535.3	25°	251.6	136.5	72.3	48.2	32.1	17.4	5.4	0.0	0.0	0.0
760.2	27.5°	334.6	161.9	72.3	41.5	25.4	9.4	0.0	0.0	0.0	0.0
1035.9	30°	418.9	190.0	72.3	36.1	20.1	1.3	0.0	0.0	0.0	0.0
1275.4	32.5°	499.2	214.1	73.6	30.8	13.4	0.0	0.0	0.0	0.0	0.0
1607.3	35°	580.8	218.1	72.3	26.8	8.0	0.0	0.0	0.0	0.0	0.0
2014.2	37.5°	685.2	210.1	68.3	24.1	4.0	0.0	0.0	0.0	0.0	0.0
2649.9	40°	843.2	214.1	64.2	22.8	1.3	0.0	0.0	0.0	0.0	0.0
3783.5	42.5°	1134.9	231.5	58.9	22.8	0.0	0.0	0.0	0.0	0.0	0.0
6026.6	45°	1962.0	310.5	53.5	24.1	0.0	0.0	0.0	0.0	0.0	0.0
9047.2	47.5°	3245.5	558.1	52.2	24.1	0.0	0.0	0.0	0.0	0.0	0.0
10898.1	50°	4142.2	702.6	54.9	25.4	0.0	0.0	0.0	0.0	0.0	0.0
11129.6	52.5°	4135.5	782.9	57.5	26.8	5.4	0.0	0.0	0.0	0.0	0.0
10258.4	55°	3676.4	797.7	61.6	29.4	17.4	0.0	0.0	0.0	0.0	0.0
8815.7	57.5°	3072.8	728.1	70.9	36.1	32.1	0.0	0.0	0.0	0.0	0.0
8589.5	58°	2965.8	695.9	73.6	37.5	34.8	0.0	0.0	0.0	0.0	0.0
7450.5	60°	2430.4	567.5	93.7	46.8	46.8	0.0	0.0	0.0	0.0	0.0
6108.2	62.5°	1678.3	495.2	107.1	60.2	48.2	0.0	0.0	0.0	0.0	0.0
4503.5	65°	1187.1	447.0	116.4	64.2	38.8	0.0	0.0	0.0	0.0	0.0
3200.0	67.5°	887.3	412.2	128.5	65.6	20.1	0.0	0.0	0.0	0.0	0.0
2007.5	70°	679.9	386.8	157.9	69.6	5.4	0.0	0.0	0.0	0.0	0.0
1196.5	72.5°	554.1	357.3	191.4	72.3	0.0	0.0	0.0	0.0	0.0	0.0
717.4	75°	459.1	322.5	184.7	79.0	0.0	0.0	0.0	0.0	0.0	0.0
382.8	77.5°	305.1	250.3	168.6	79.0	0.0	0.0	0.0	0.0	0.0	0.0
136.5	80°	107.1	99.0	131.2	69.6	0.0	0.0	0.0	0.0	0.0	0.0
28.1	82.5°	16.1	13.4	18.7	24.1	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°
77.6	0°	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
54.9	2.5°	54.9	54.9	53.5	54.9	54.9	57.5	64.2	73.6	84.3	88.3
46.8	5°	45.5	44.2	42.8	42.8	42.8	46.8	52.2	62.9	74.9	80.3
38.8	7.5°	37.5	36.1	34.8	33.5	33.5	36.1	42.8	54.9	66.9	72.3
32.1	10°	30.8	28.1	26.8	25.4	25.4	28.1	34.8	46.8	60.2	65.6
26.8	12.5°	25.4	21.4	18.7	17.4	16.1	20.1	26.8	37.5	52.2	58.9
20.1	15°	17.4	13.4	9.4	8.0	6.7	10.7	17.4	29.4	44.2	52.2
10.7	17.5°	9.4	4.0	1.3	0.0	0.0	2.7	8.0	21.4	36.1	42.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	26.8	33.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	16.1	22.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	12.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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	5.4	10.7
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°
77.6	0°	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
92.3	2.5°	95.0	93.7	91.0	88.3	88.3	88.3	92.3	96.4	100.4	100.4
83.0	5°	88.3	88.3	87.0	84.3	84.3	85.7	91.0	97.7	103.1	104.4
76.3	7.5°	81.6	84.3	81.6	80.3	81.6	83.0	88.3	96.4	104.4	107.1
70.9	10°	77.6	79.0	79.0	77.6	77.6	80.3	85.7	96.4	107.1	111.1
64.2	12.5°	72.3	74.9	73.6	73.6	73.6	76.3	83.0	95.0	109.7	115.1
57.5	15°	66.9	70.9	70.9	69.6	69.6	70.9	80.3	93.7	113.8	123.1
49.5	17.5°	61.6	65.6	66.9	64.2	64.2	66.9	76.3	93.7	116.4	132.5
40.2	20°	50.9	57.5	61.6	57.5	57.5	60.2	69.6	88.3	117.8	141.9
29.4	22.5°	40.2	46.8	52.2	50.9	50.9	52.2	64.2	84.3	119.1	157.9
17.4	25°	29.4	36.1	40.2	42.8	42.8	46.8	58.9	81.6	124.5	191.4
8.0	27.5°	17.4	25.4	30.8	33.5	34.8	40.2	54.9	79.0	133.8	239.6
0.0	30°	8.0	14.7	21.4	26.8	26.8	36.1	50.9	76.3	145.9	309.2
0.0	32.5°	0.0	6.7	10.7	18.7	20.1	29.4	46.8	73.6	163.3	376.1
0.0	35°	0.0	0.0	5.4	14.7	14.7	24.1	42.8	70.9	190.0	426.9
0.0	37.5°	0.0	0.0	0.0	10.7	12.0	21.4	41.5	69.6	195.4	430.9
0.0	40°	0.0	0.0	0.0	8.0	9.4	20.1	41.5	70.9	176.7	421.6
0.0	42.5°	0.0	0.0	0.0	5.4	6.7	20.1	41.5	73.6	159.3	432.3
0.0	45°	0.0	0.0	0.0	4.0	5.4	21.4	40.2	72.3	149.9	488.5
0.0	47.5°	0.0	0.0	0.0	5.4	8.0	21.4	38.8	70.9	151.2	674.5
0.0	50°	0.0	0.0	0.0	6.7	9.4	21.4	40.2	68.3	166.0	1037.2
0.0	52.5°	0.0	0.0	0.0	5.4	8.0	24.1	44.2	66.9	180.7	1349.0
0.0	55°	0.0	0.0	0.0	1.3	4.0	30.8	48.2	66.9	203.4	1426.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	34.8	54.9	70.9	240.9	1395.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	34.8	56.2	70.9	243.6	1369.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	34.8	61.6	79.0	262.3	1219.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	29.4	73.6	99.0	273.0	958.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	24.1	87.0	108.4	281.1	762.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	22.8	89.7	109.7	285.1	607.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	24.1	88.3	117.8	298.5	493.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	26.8	80.3	129.8	298.5	437.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	28.1	74.9	145.9	271.7	378.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	26.8	73.6	170.0	242.2	311.8
0.0	80°	2.7	4.0	4.0	2.7	2.7	22.8	72.3	172.6	206.1	214.1
1.3	82.5°	8.0	10.7	9.4	6.7	6.7	20.1	64.2	144.5	107.1	92.3
8.0	85°	14.7	17.4	17.4	14.7	14.7	18.7	40.2	52.2	36.1	29.4
14.7	87.5°	20.1	22.8	22.8	20.1	20.1	18.7	17.4	16.1	14.7	14.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-11

Test Date: 10/11/2024

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

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

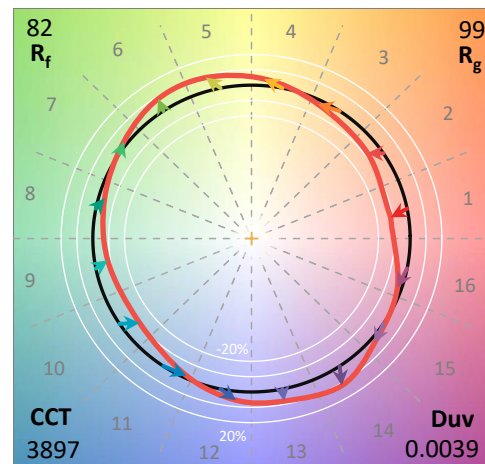
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-11
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-840-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 4000K CCT 26 LEDS

Spectral Parameters

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

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



Test Conditions

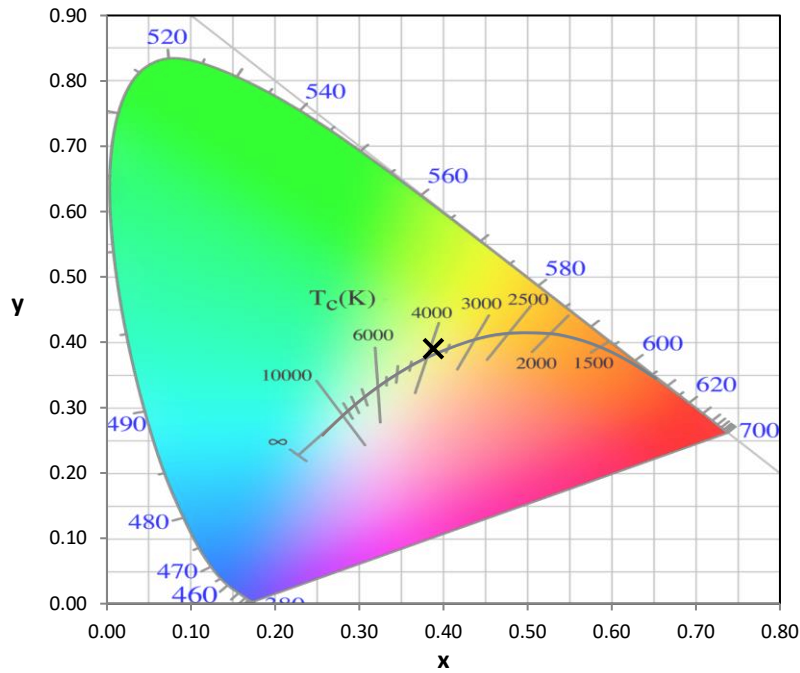
Stabilization Time: 24M
 Operation Time: 1H 24M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-11

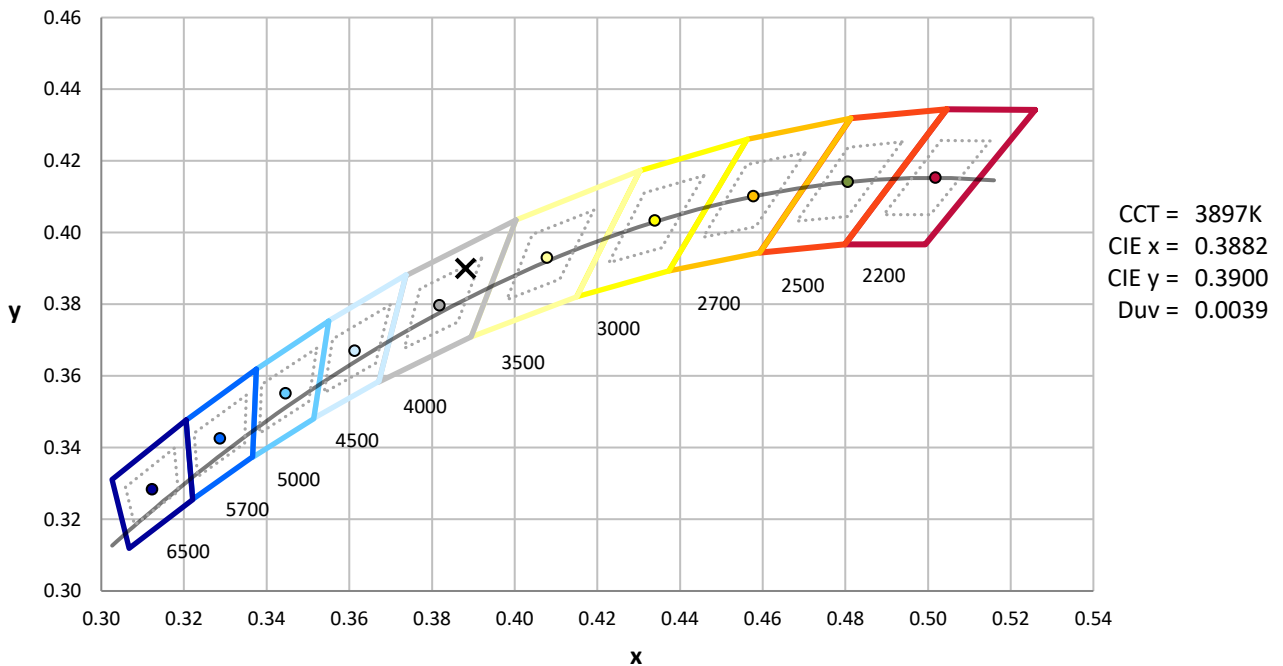
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



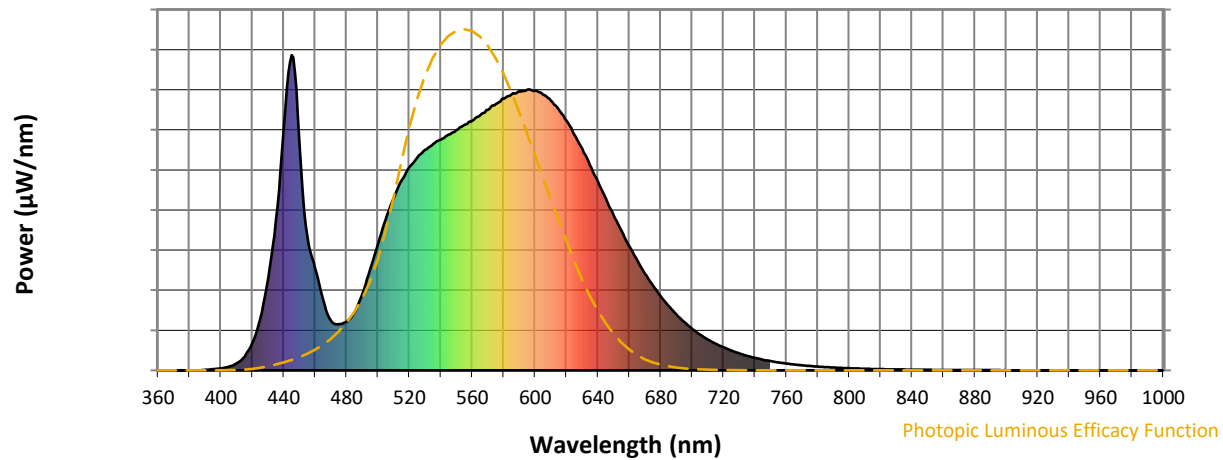
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

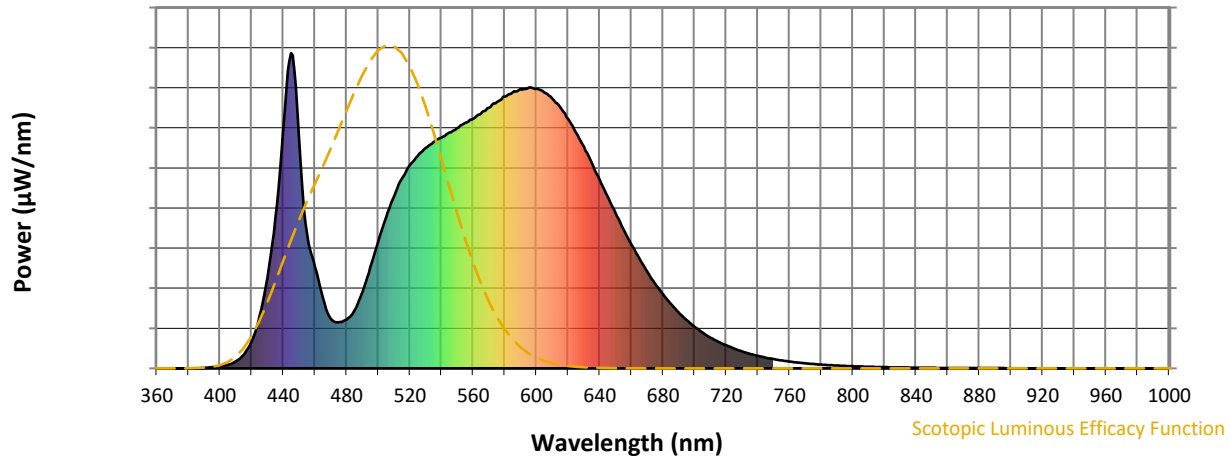


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength



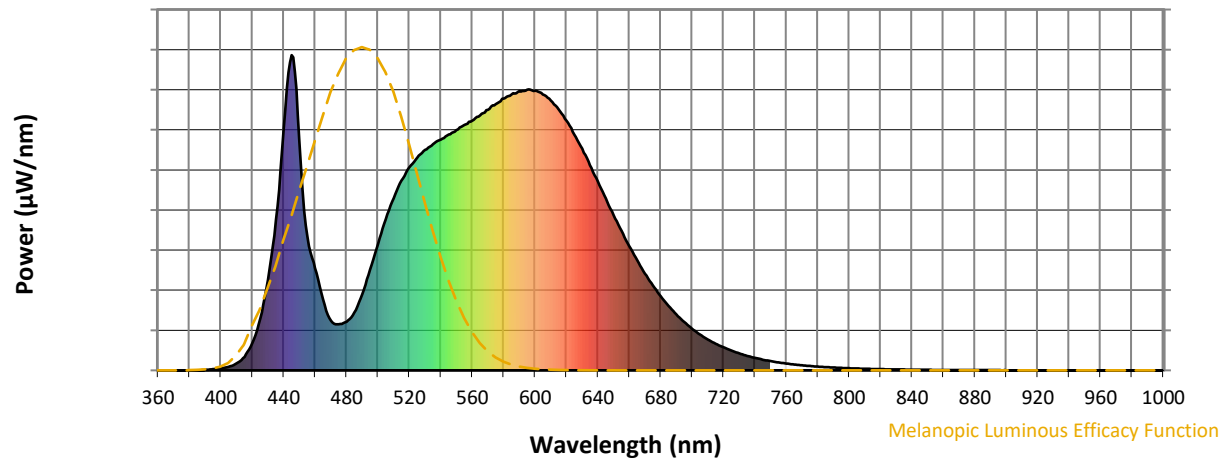
Scotopic Lumens: NR

S/P: 1.57

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

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.06

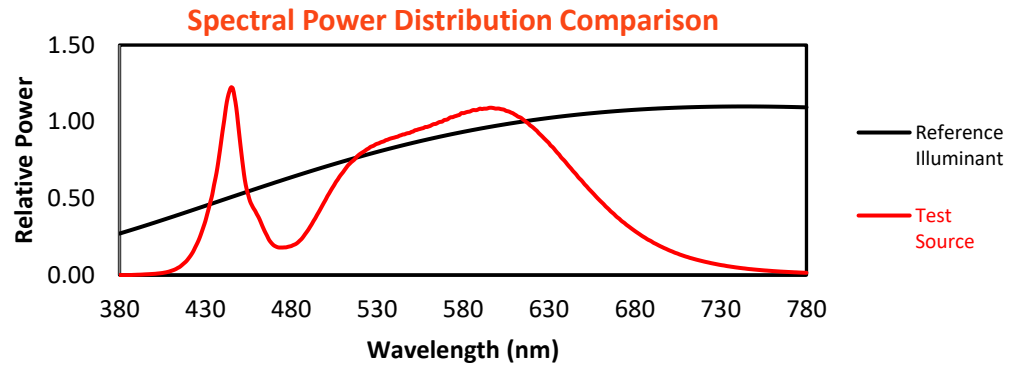
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792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

REPORT NUMBER: SP1-2407-184-11

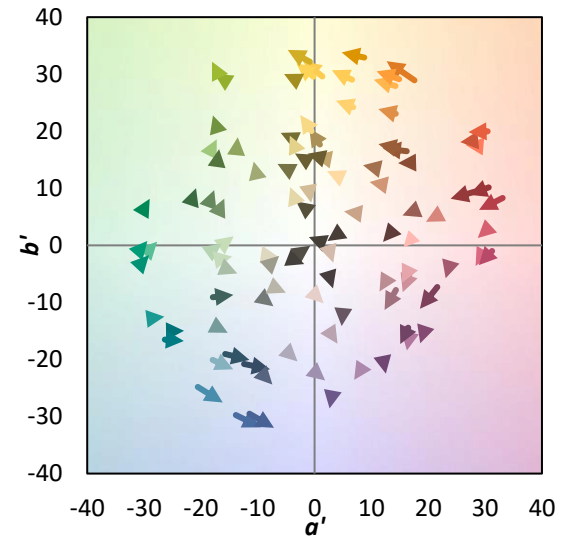
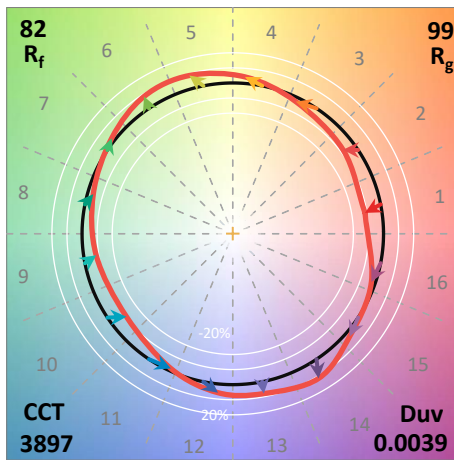
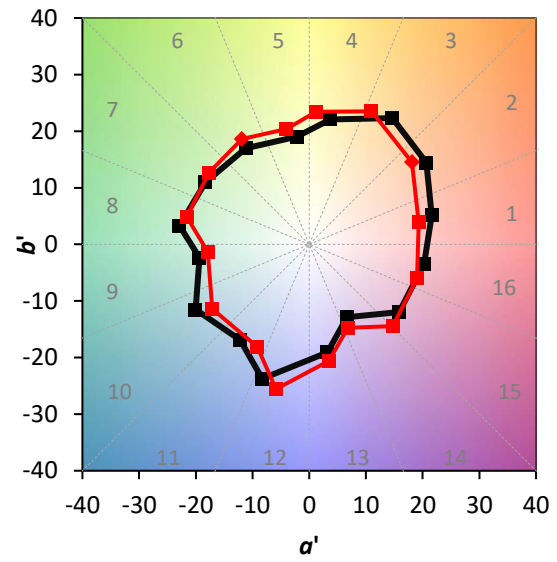
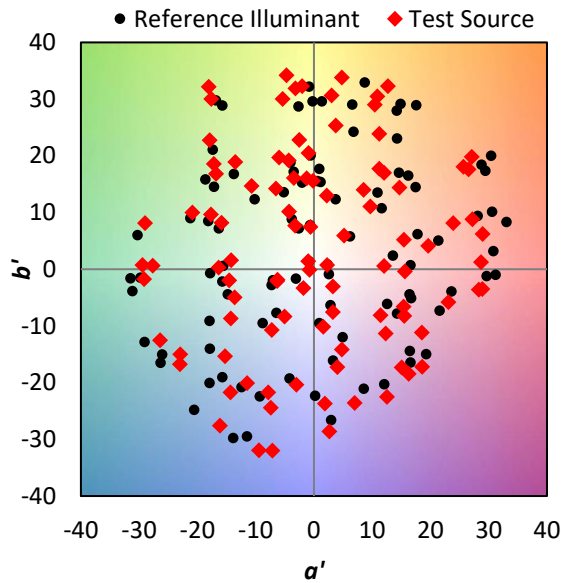
TM-30-18

Summary

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

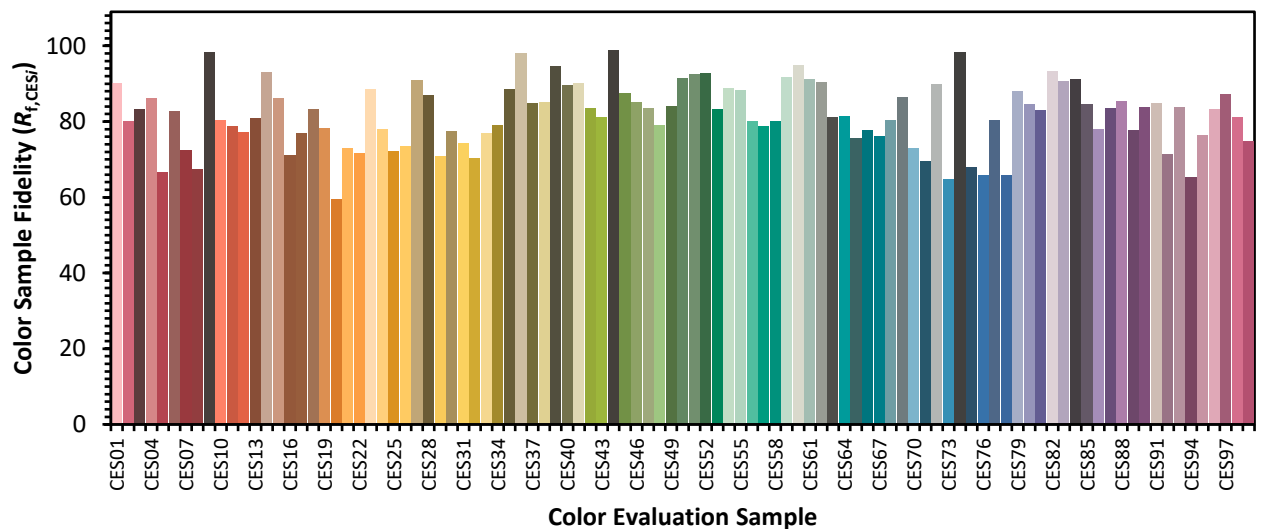


Color Vector Graphics

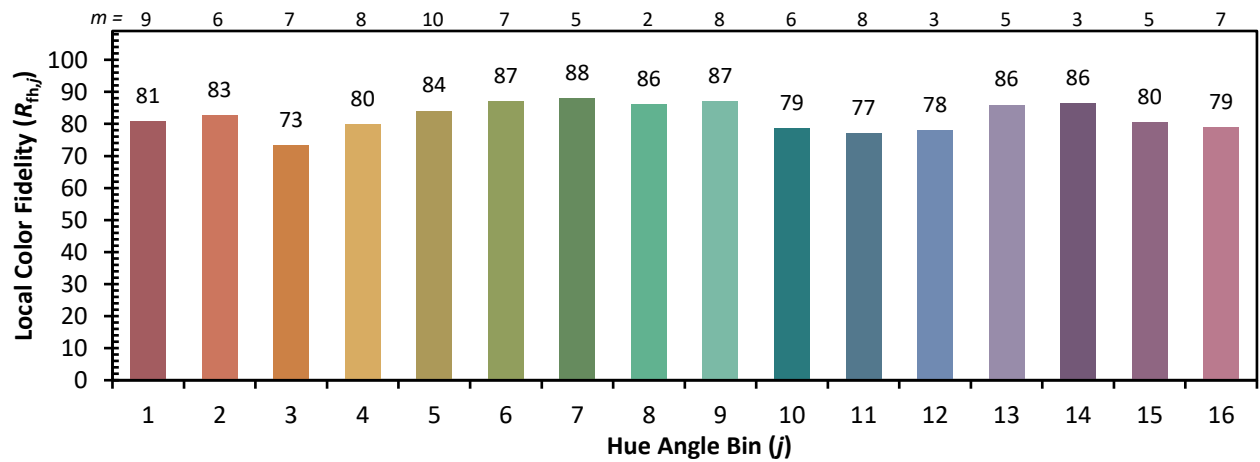
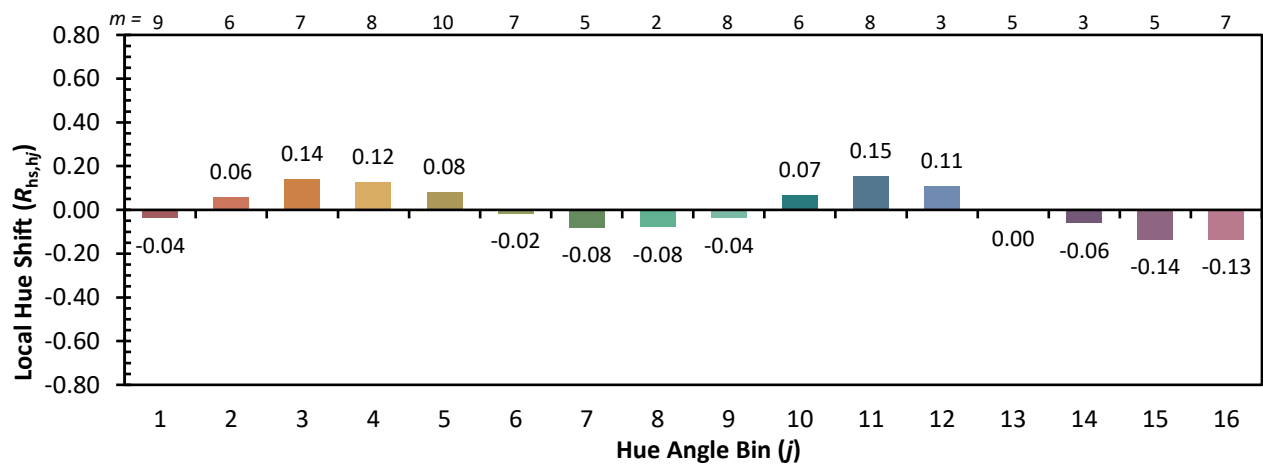
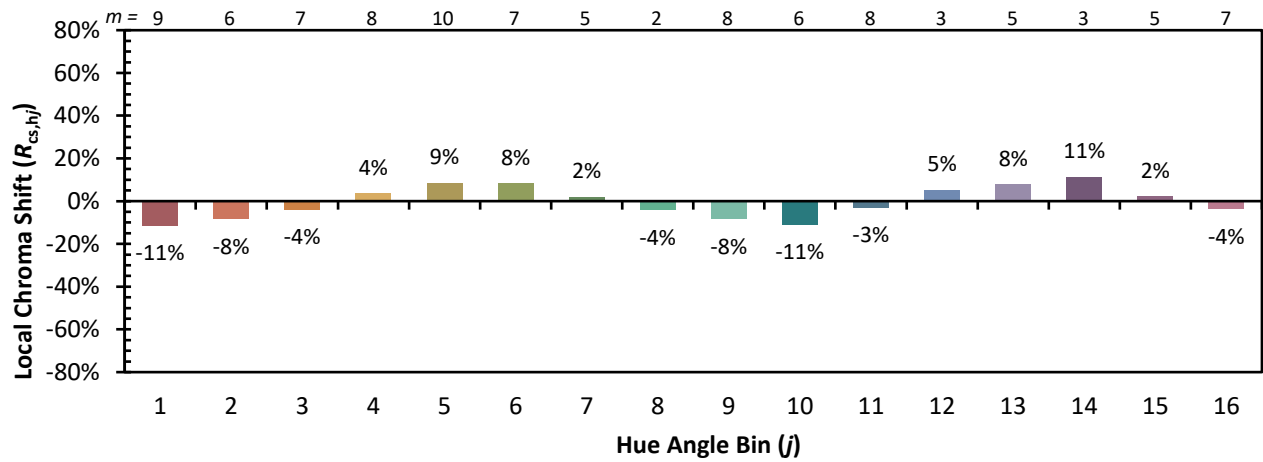


Individual Sample Fidelity Index ($R_{f,i}$)

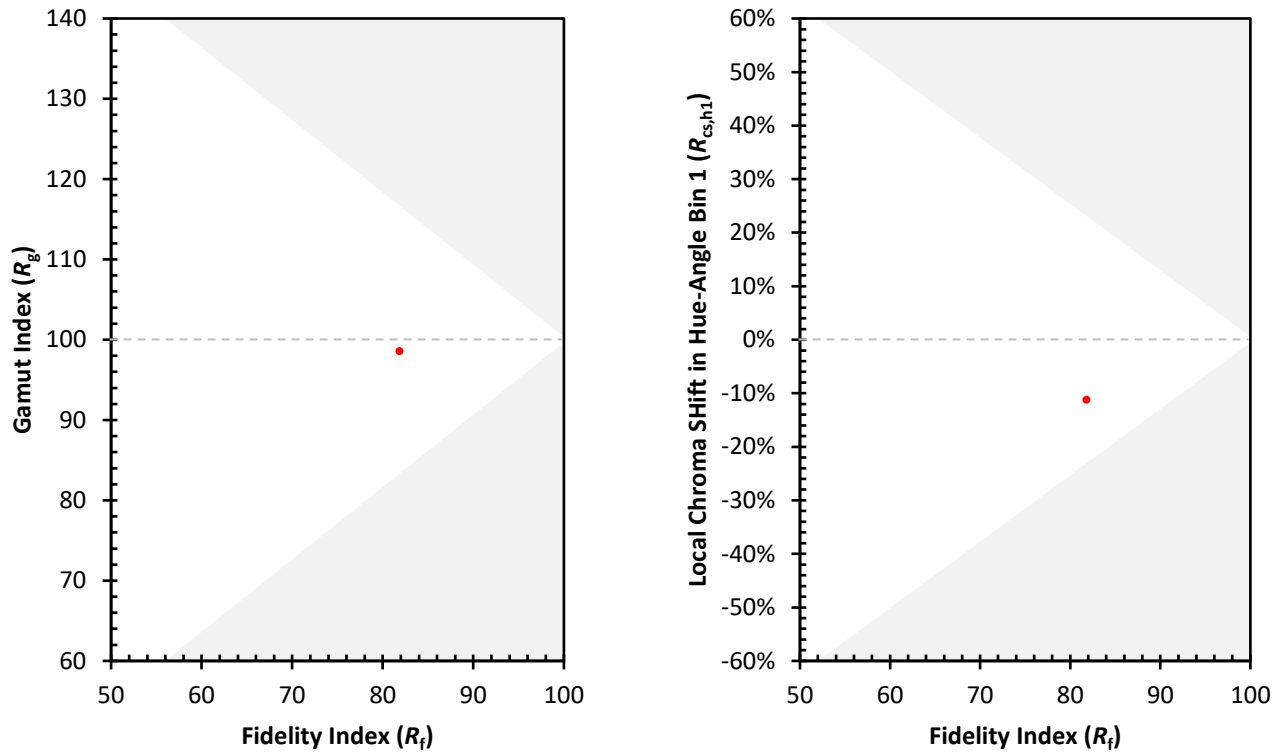
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)