

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: P1049887

Luminaire Tested: **GALN-SA8C-850-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049887
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-850-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 8xLight Square PACKAGE
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36655.1 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G5

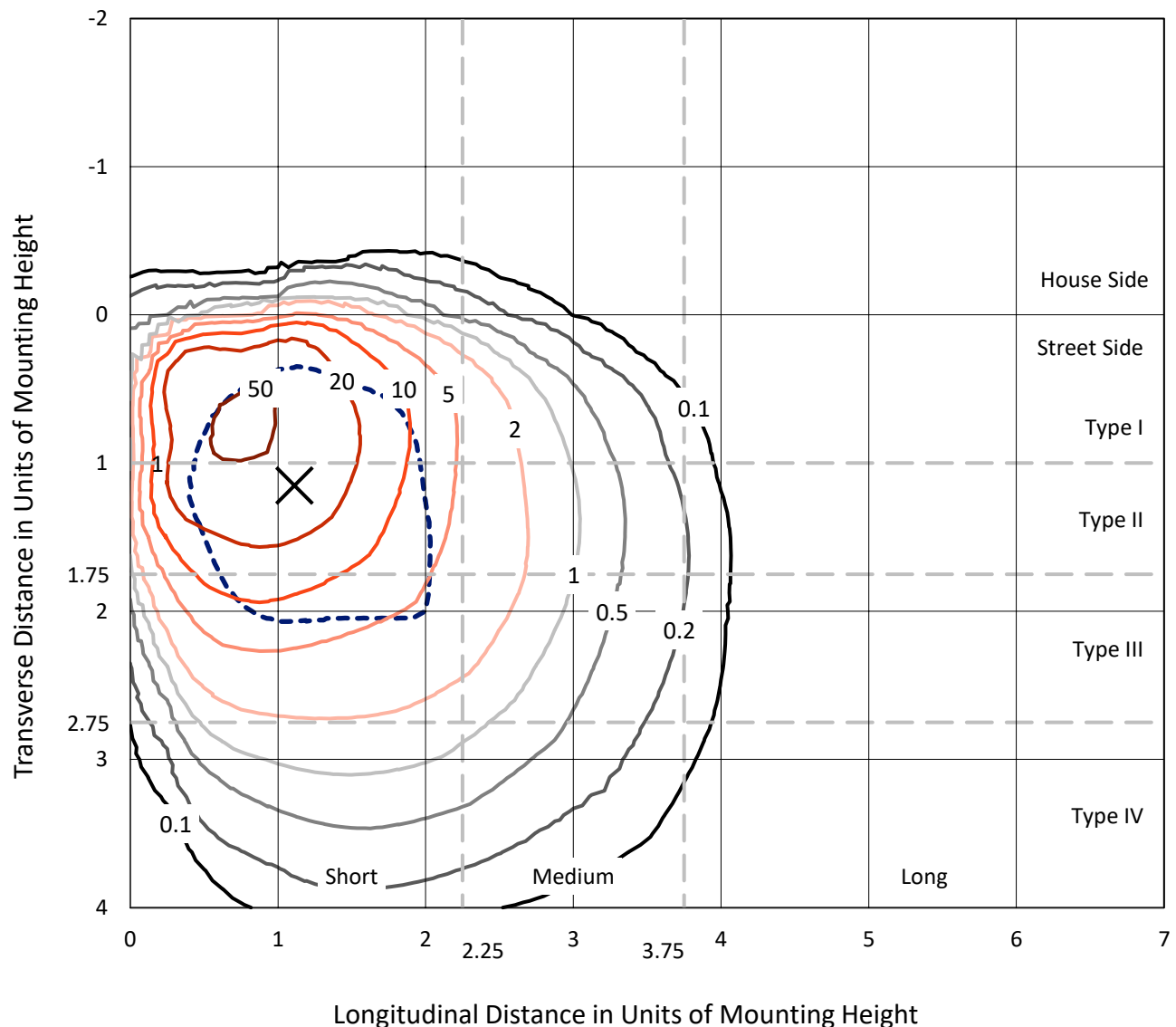
Input Watts (W): 372.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

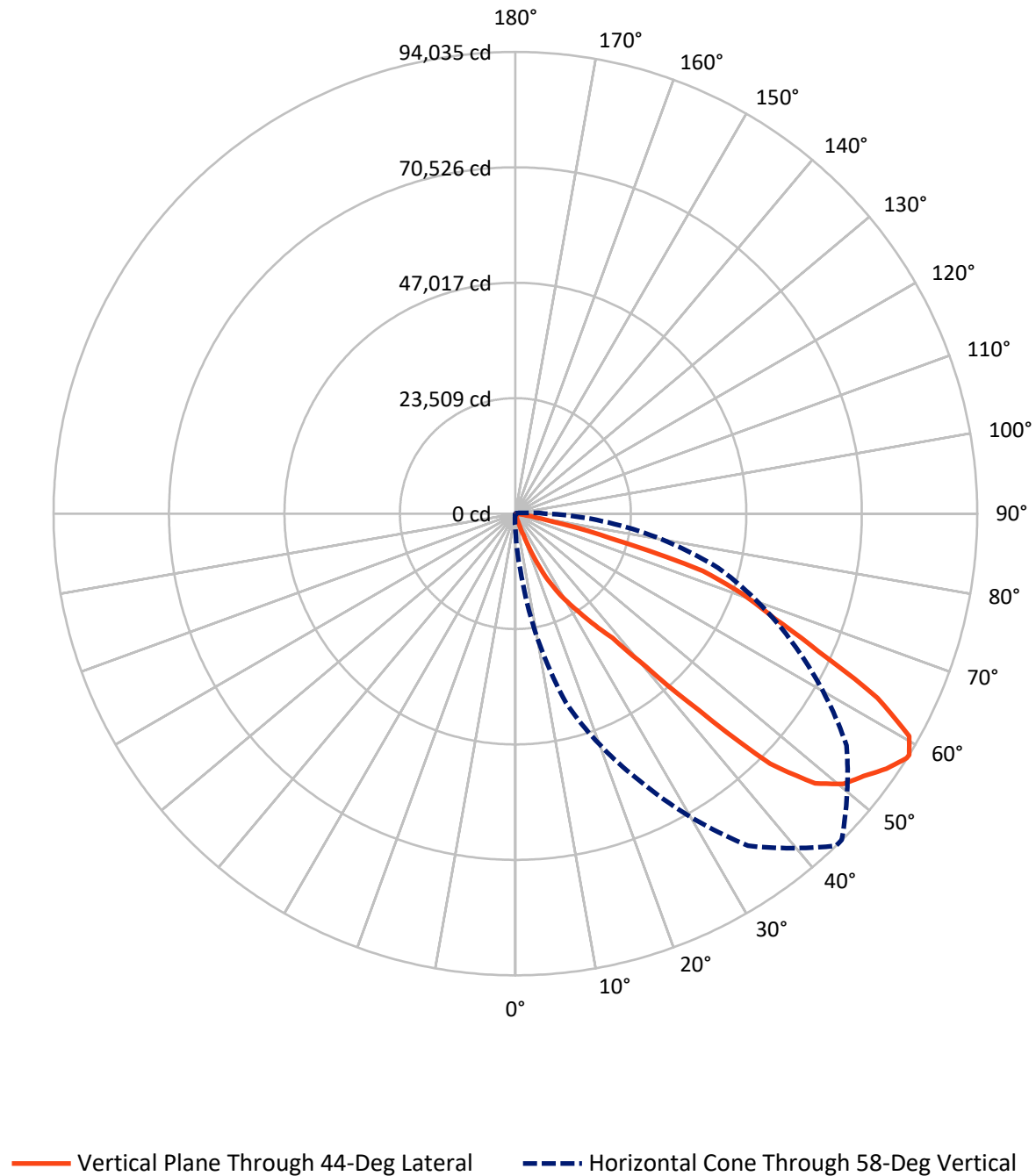
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 63.8 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	250.3	0.0	250.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	36404.9	0.0	36404.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	36655.1	0.0	36655.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.3	0.0
10°-20°	80.4	0.2
20°-30°	868.4	2.4
30°-40°	2568.1	7.0
40°-50°	7654.2	20.9
50°-60°	12145.3	33.1
60°-70°	10130.6	27.6
70°-80°	3124.5	8.5
80°-90°	69.4	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°	36655.1	100.0
0°-180°	36655.1	100.0



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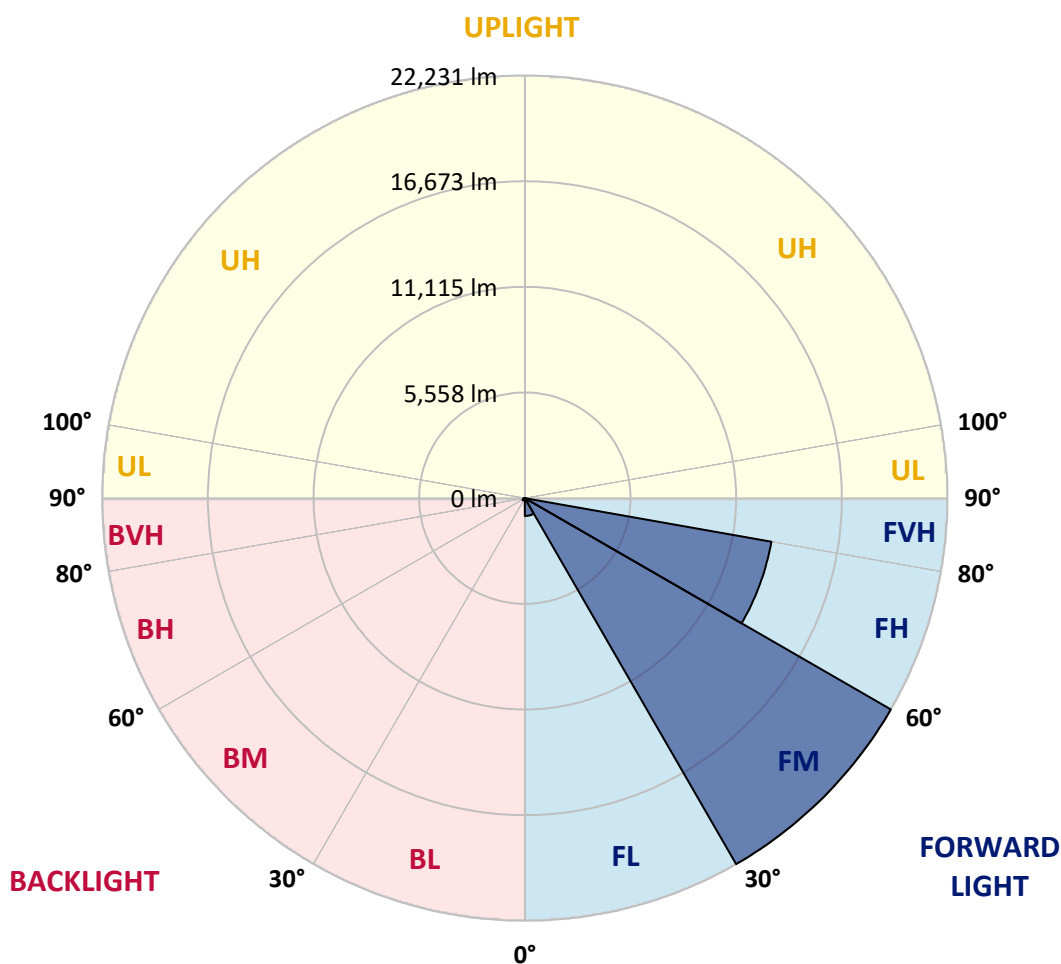
CATALOG NUMBER: GALN-SA8C-850-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	938.6	2.6			
FM	(30°-60°)	22230.6	60.6			
FH	(60°-80°)	13169.7	35.9			G5
FVH	(80°-90°)	66.0	0.2			G1/100
BL	(0°-30°)	24.5	0.1	B0/110		
BM	(30°-60°)	137.0	0.4	B0/220		
BH	(60°-80°)	85.4	0.2	B0/110		G0/110
BVH	(80°-90°)	3.4	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6
2.5°	207.7	207.7	199.4	188.3	177.2	166.1	163.4	157.8	155.1	152.3
5°	216.0	216.0	213.2	204.9	193.8	185.5	185.5	177.2	171.7	166.1
7.5°	221.5	224.3	229.8	227.1	221.5	213.2	213.2	207.7	199.4	185.5
10°	229.8	238.1	249.2	254.7	257.5	257.5	254.7	252.0	238.1	218.7
12.5°	238.1	254.7	282.4	310.1	326.7	348.9	346.1	340.6	304.6	263.1
15°	254.7	279.7	337.8	418.1	542.7	620.3	650.7	623.0	504.0	354.4
17.5°	274.1	315.7	490.1	875.0	1434.3	1700.2	1860.8	1730.6	1146.4	672.9
20°	293.5	384.9	911.0	2267.8	3721.5	4591.0	4831.9	4455.3	2860.4	1282.0
22.5°	326.7	540.0	1846.9	4687.9	8019.0	9323.2	9569.6	8365.1	5402.3	2530.9
25°	396.0	783.6	3184.3	7639.6	11967.5	14168.9	14066.4	12488.1	8763.8	4042.7
27.5°	495.6	1140.8	4815.3	10854.4	15750.0	17691.0	17923.6	15971.5	11682.3	5945.0
30°	639.6	1581.1	6565.3	13429.6	18782.0	20880.9	20919.7	18901.1	14293.5	7614.7
32.5°	778.1	1996.4	8096.5	15918.9	21769.7	24070.8	24242.5	21758.7	16242.9	9353.6
35°	883.3	2267.8	9647.1	18106.4	24782.4	27952.9	27941.8	24992.8	18552.2	10907.0
37.5°	891.6	2539.2	11051.0	20343.7	28598.1	32147.9	32499.6	29248.8	21343.3	12828.7
40°	872.2	2843.7	12828.7	23832.6	35473.5	40920.0	41230.2	37132.1	26942.2	16118.3
42.5°	894.4	3372.6	15714.0	30276.1	46890.0	54712.3	55310.4	51001.9	37234.5	22830.3
45°	1010.7	4366.7	21758.7	41055.7	63163.3	72699.7	72500.3	66295.0	49210.4	33047.8
47.5°	1395.6	6800.6	30719.1	51547.4	73563.6	82056.1	82227.7	74643.5	56199.3	40903.4
50°	2146.0	10405.8	38248.0	57093.7	78035.5	86555.7	86395.1	77631.2	58854.7	44771.7
52.5°	2791.1	13014.2	42024.9	59040.3	78608.7	88779.2	88768.1	78417.6	59267.3	45104.0
55°	2951.7	13210.8	42055.3	59145.5	79893.5	91689.4	92054.9	80353.1	59801.7	43653.0
57.5°	2888.0	11696.2	40299.8	59754.7	82180.7	93940.5	93959.9	82227.7	61158.5	42764.2
58°	2832.7	11458.1	39945.4	60100.8	82573.9	94034.7	93987.6	82313.6	62263.4	42731.0
60°	2522.5	9949.0	38563.6	60984.1	81989.6	92101.9	91661.7	80439.0	62100.0	42390.4
62.5°	1982.6	7761.5	37204.1	59962.3	75726.2	82745.5	82928.3	71215.5	56611.9	40405.0
65°	1578.3	5784.4	34368.6	52596.8	62357.5	67950.9	68632.0	57910.5	47252.7	34213.6
67.5°	1257.1	4181.2	28830.7	41875.3	49343.3	56711.6	57207.2	48620.6	36608.7	26214.0
70°	1021.8	2827.1	19900.7	30625.0	40698.5	48983.3	49013.8	40391.2	27324.3	17176.0
72.5°	905.5	1957.7	11552.2	22334.6	33000.7	39914.9	39109.1	32776.5	21000.0	10173.2
75°	783.6	1298.7	5665.3	13653.9	20008.7	20144.4	20451.7	15204.5	10497.2	4837.4
77.5°	645.2	922.1	2231.8	3729.8	6000.4	7681.2	7966.4	6036.4	3491.7	1190.7
80°	443.0	437.5	600.9	1143.6	1716.8	2151.5	2007.5	1553.4	913.8	456.9
82.5°	191.1	207.7	271.4	326.7	265.8	257.5	246.4	157.8	121.8	94.1
85°	60.9	55.4	58.1	58.1	47.1	36.0	36.0	16.6	0.0	0.0
87.5°	30.5	24.9	24.9	22.2	13.8	5.5	2.8	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°
160.6	0°	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6
149.5	2.5°	146.8	146.8	141.2	135.7	132.9	127.4	124.6	121.8	119.1	116.3
160.6	5°	155.1	152.3	144.0	135.7	127.4	119.1	113.5	108.0	102.5	99.7
177.2	7.5°	168.9	163.4	146.8	132.9	121.8	110.8	105.2	96.9	91.4	83.1
196.6	10°	185.5	174.4	152.3	135.7	119.1	105.2	96.9	88.6	80.3	69.2
224.3	12.5°	207.7	188.3	160.6	132.9	113.5	96.9	88.6	77.5	69.2	60.9
260.3	15°	227.1	202.1	163.4	132.9	108.0	88.6	77.5	66.5	58.1	47.1
326.7	17.5°	254.7	213.2	160.6	124.6	99.7	77.5	66.5	58.1	44.3	27.7
484.6	20°	301.8	221.5	155.1	116.3	85.8	63.7	49.8	38.8	19.4	5.5
728.2	22.5°	376.6	243.7	149.5	105.2	74.8	49.8	33.2	13.8	0.0	0.0
1107.6	25°	520.6	282.4	149.5	99.7	66.5	36.0	11.1	0.0	0.0	0.0
1572.8	27.5°	692.2	335.0	149.5	85.8	52.6	19.4	0.0	0.0	0.0	0.0
2143.2	30°	866.7	393.2	149.5	74.8	41.5	2.8	0.0	0.0	0.0	0.0
2638.8	32.5°	1032.8	443.0	152.3	63.7	27.7	0.0	0.0	0.0	0.0	0.0
3325.5	35°	1201.7	451.3	149.5	55.4	16.6	0.0	0.0	0.0	0.0	0.0
4167.3	37.5°	1417.7	434.7	141.2	49.8	8.3	0.0	0.0	0.0	0.0	0.0
5482.6	40°	1744.5	443.0	132.9	47.1	2.8	0.0	0.0	0.0	0.0	0.0
7827.9	42.5°	2348.1	479.0	121.8	47.1	0.0	0.0	0.0	0.0	0.0	0.0
12468.7	45°	4059.3	642.4	110.8	49.8	0.0	0.0	0.0	0.0	0.0	0.0
18718.3	47.5°	6714.8	1154.7	108.0	49.8	0.0	0.0	0.0	0.0	0.0	0.0
22547.8	50°	8570.0	1453.7	113.5	52.6	0.0	0.0	0.0	0.0	0.0	0.0
23026.9	52.5°	8556.2	1619.9	119.1	55.4	11.1	0.0	0.0	0.0	0.0	0.0
21224.3	55°	7606.4	1650.3	127.4	60.9	36.0	0.0	0.0	0.0	0.0	0.0
18239.3	57.5°	6357.6	1506.3	146.8	74.8	66.5	0.0	0.0	0.0	0.0	0.0
17771.3	58°	6136.1	1439.9	152.3	77.5	72.0	0.0	0.0	0.0	0.0	0.0
15414.9	60°	5028.5	1174.0	193.8	96.9	96.9	0.0	0.0	0.0	0.0	0.0
12637.6	62.5°	3472.3	1024.5	221.5	124.6	99.7	0.0	0.0	0.0	0.0	0.0
9317.6	65°	2456.1	924.8	240.9	132.9	80.3	0.0	0.0	0.0	0.0	0.0
6620.6	67.5°	1835.8	852.8	265.8	135.7	41.5	0.0	0.0	0.0	0.0	0.0
4153.5	70°	1406.6	800.2	326.7	144.0	11.1	0.0	0.0	0.0	0.0	0.0
2475.5	72.5°	1146.4	739.3	396.0	149.5	0.0	0.0	0.0	0.0	0.0	0.0
1484.2	75°	949.8	667.3	382.1	163.4	0.0	0.0	0.0	0.0	0.0	0.0
791.9	77.5°	631.3	517.8	348.9	163.4	0.0	0.0	0.0	0.0	0.0	0.0
282.4	80°	221.5	204.9	271.4	144.0	0.0	0.0	0.0	0.0	0.0	0.0
58.1	82.5°	33.2	27.7	38.8	49.8	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°
160.6	0°	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6
113.5	2.5°	113.5	113.5	110.8	113.5	113.5	119.1	132.9	152.3	174.4	182.8
96.9	5°	94.1	91.4	88.6	88.6	88.6	96.9	108.0	130.1	155.1	166.1
80.3	7.5°	77.5	74.8	72.0	69.2	69.2	74.8	88.6	113.5	138.4	149.5
66.5	10°	63.7	58.1	55.4	52.6	52.6	58.1	72.0	96.9	124.6	135.7
55.4	12.5°	52.6	44.3	38.8	36.0	33.2	41.5	55.4	77.5	108.0	121.8
41.5	15°	36.0	27.7	19.4	16.6	13.8	22.2	36.0	60.9	91.4	108.0
22.2	17.5°	19.4	8.3	2.8	0.0	0.0	5.5	16.6	44.3	74.8	88.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	55.4	69.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	33.2	47.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	24.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
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	8.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	22.2
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°
160.6	0°	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6
191.1	2.5°	196.6	193.8	188.3	182.8	182.8	182.8	191.1	199.4	207.7	207.7
171.7	5°	182.8	182.8	180.0	174.4	174.4	177.2	188.3	202.1	213.2	216.0
157.8	7.5°	168.9	174.4	168.9	166.1	168.9	171.7	182.8	199.4	216.0	221.5
146.8	10°	160.6	163.4	163.4	160.6	160.6	166.1	177.2	199.4	221.5	229.8
132.9	12.5°	149.5	155.1	152.3	152.3	152.3	157.8	171.7	196.6	227.1	238.1
119.1	15°	138.4	146.8	146.8	144.0	144.0	146.8	166.1	193.8	235.4	254.7
102.5	17.5°	127.4	135.7	138.4	132.9	132.9	138.4	157.8	193.8	240.9	274.1
83.1	20°	105.2	119.1	127.4	119.1	119.1	124.6	144.0	182.8	243.7	293.5
60.9	22.5°	83.1	96.9	108.0	105.2	105.2	108.0	132.9	174.4	246.4	326.7
36.0	25°	60.9	74.8	83.1	88.6	88.6	96.9	121.8	168.9	257.5	396.0
16.6	27.5°	36.0	52.6	63.7	69.2	72.0	83.1	113.5	163.4	276.9	495.6
0.0	30°	16.6	30.5	44.3	55.4	55.4	74.8	105.2	157.8	301.8	639.6
0.0	32.5°	0.0	13.8	22.2	38.8	41.5	60.9	96.9	152.3	337.8	778.1
0.0	35°	0.0	0.0	11.1	30.5	30.5	49.8	88.6	146.8	393.2	883.3
0.0	37.5°	0.0	0.0	0.0	22.2	24.9	44.3	85.8	144.0	404.3	891.6
0.0	40°	0.0	0.0	0.0	16.6	19.4	41.5	85.8	146.8	365.5	872.2
0.0	42.5°	0.0	0.0	0.0	11.1	13.8	41.5	85.8	152.3	329.5	894.4
0.0	45°	0.0	0.0	0.0	8.3	11.1	44.3	83.1	149.5	310.1	1010.7
0.0	47.5°	0.0	0.0	0.0	11.1	16.6	44.3	80.3	146.8	312.9	1395.6
0.0	50°	0.0	0.0	0.0	13.8	19.4	44.3	83.1	141.2	343.4	2146.0
0.0	52.5°	0.0	0.0	0.0	11.1	16.6	49.8	91.4	138.4	373.8	2791.1
0.0	55°	0.0	0.0	0.0	2.8	8.3	63.7	99.7	138.4	420.9	2951.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	72.0	113.5	146.8	498.4	2888.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	72.0	116.3	146.8	504.0	2832.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	72.0	127.4	163.4	542.7	2522.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	60.9	152.3	204.9	564.9	1982.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	49.8	180.0	224.3	581.5	1578.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	47.1	185.5	227.1	589.8	1257.1
0.0	70°	0.0	0.0	0.0	0.0	0.0	49.8	182.8	243.7	617.5	1021.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	55.4	166.1	268.6	617.5	905.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	58.1	155.1	301.8	562.1	783.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	55.4	152.3	351.7	501.2	645.2
0.0	80°	5.5	8.3	8.3	5.5	5.5	47.1	149.5	357.2	426.4	443.0
2.8	82.5°	16.6	22.2	19.4	13.8	13.8	41.5	132.9	299.1	221.5	191.1
16.6	85°	30.5	36.0	36.0	30.5	30.5	38.8	83.1	108.0	74.8	60.9
30.5	87.5°	41.5	47.1	47.1	41.5	41.5	38.8	36.0	33.2	30.5	30.5
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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

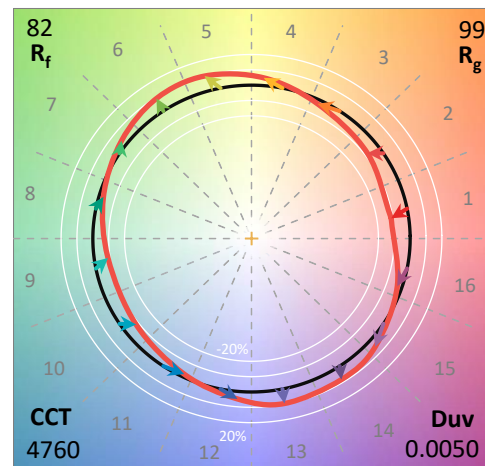
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-12
 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-850-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4760
 CIE u' : 0.2107
 CIE v' : 0.4939
 Duv: 0.0050
 CIE x: 0.3537
 CIE y: 0.3685
 CIE z: 0.2779
 Peak Wavelength (nm): 443
 Dominant Wavelength (nm): 571
 Purity: 16.69598
 R_f: 82
 R_g: 99.4

CRI (Ra): 81.1
 R1: 79.8
 R2: 83.5
 R3: 87.9
 R4: 83.1
 R5: 80.5
 R6: 79.1
 R7: 86.1
 R8: 69.0
 R9: 8.7
 R10: 62.4
 R11: 83.8
 R12: 63.0
 R13: 79.9
 R14: 93.3
 R15: 72.7



Test Conditions

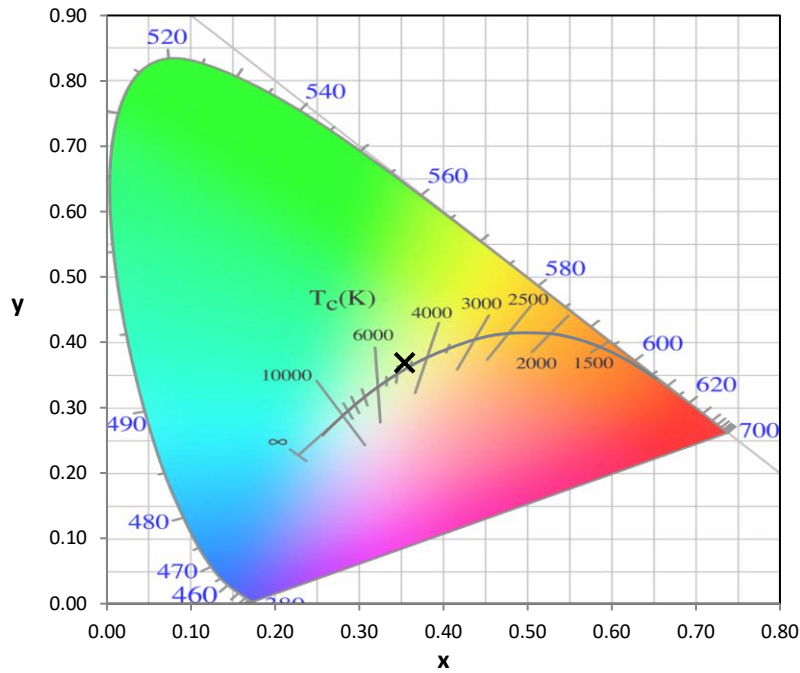
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

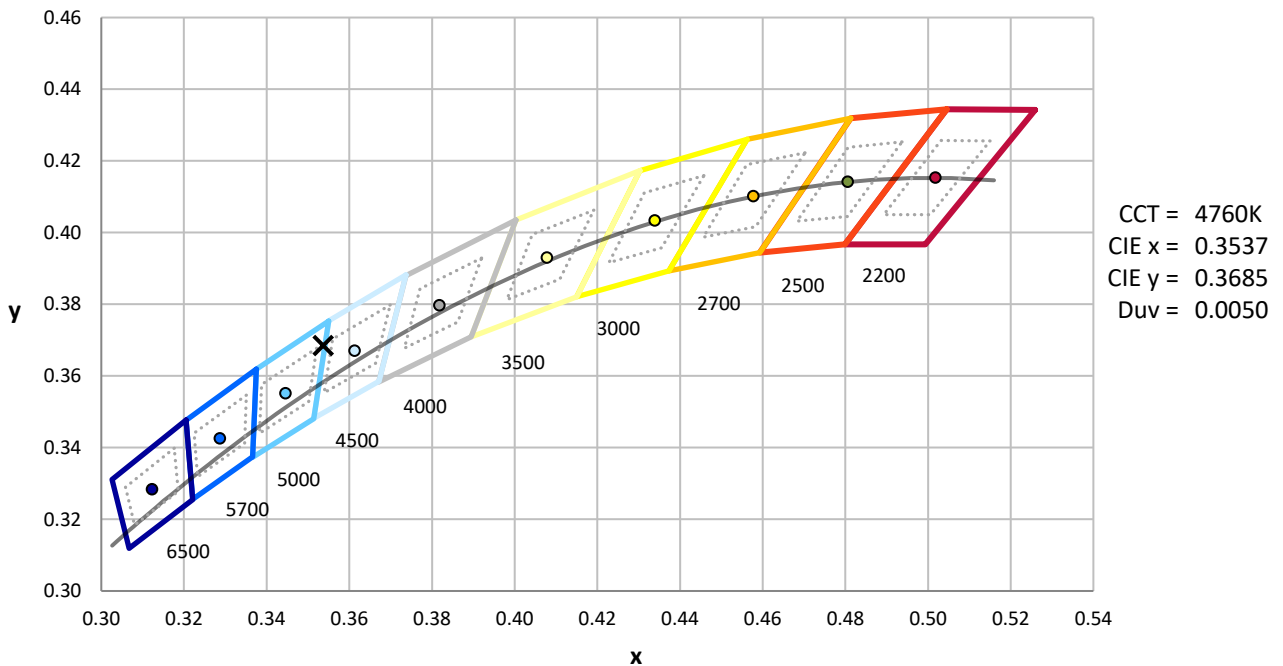
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-12

CIE 1931 Chromaticity Diagram



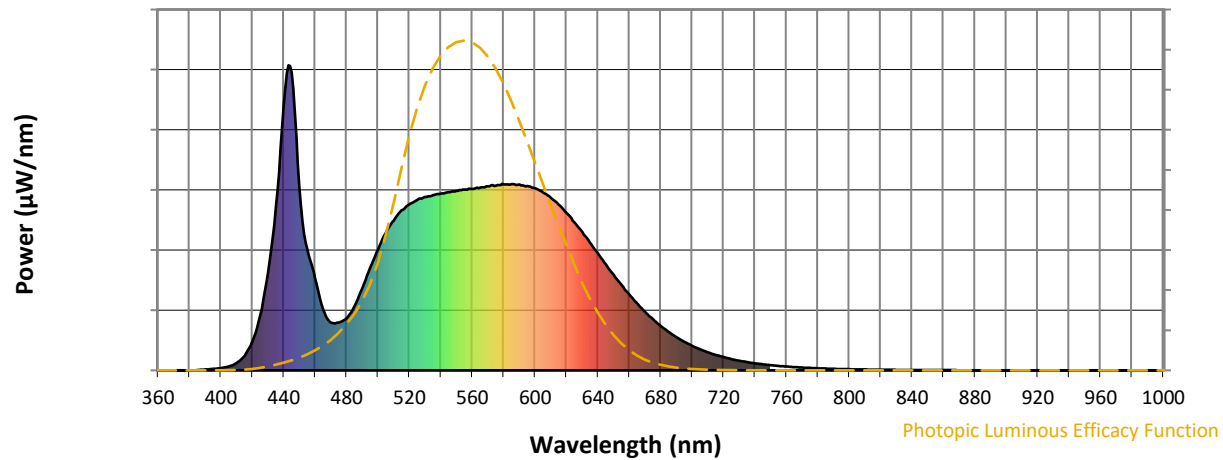
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

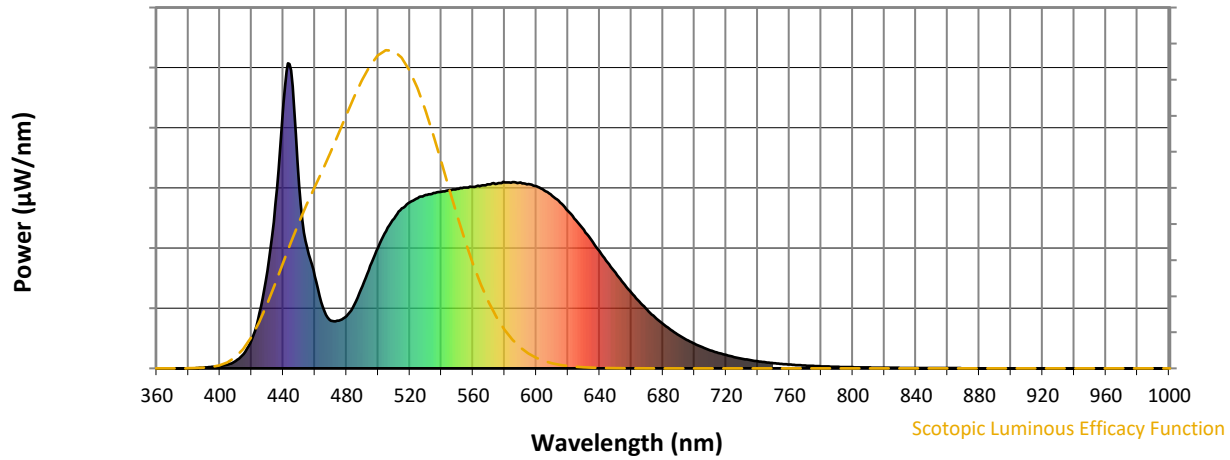


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength



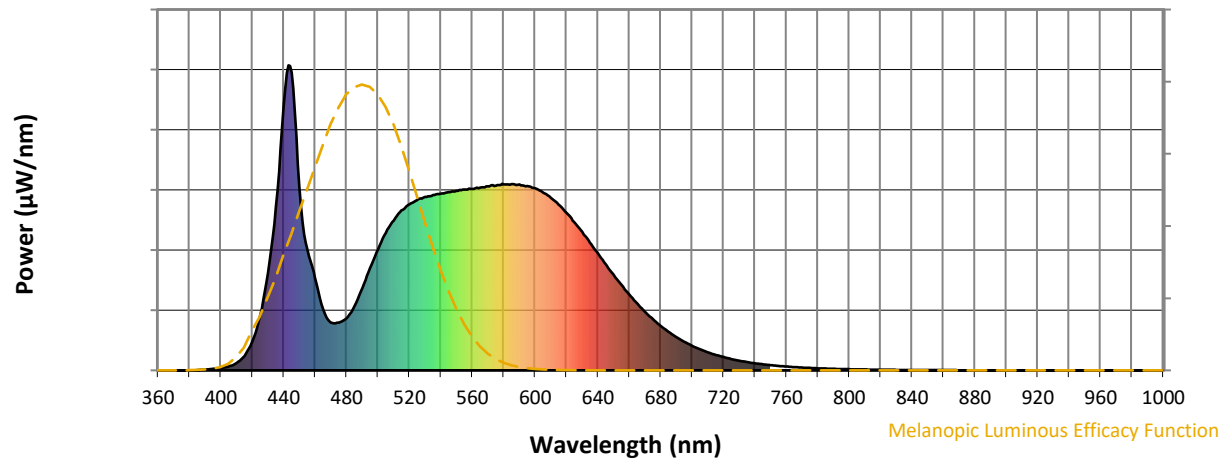
Scotopic Lumens: NR

S/P: 1.83

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

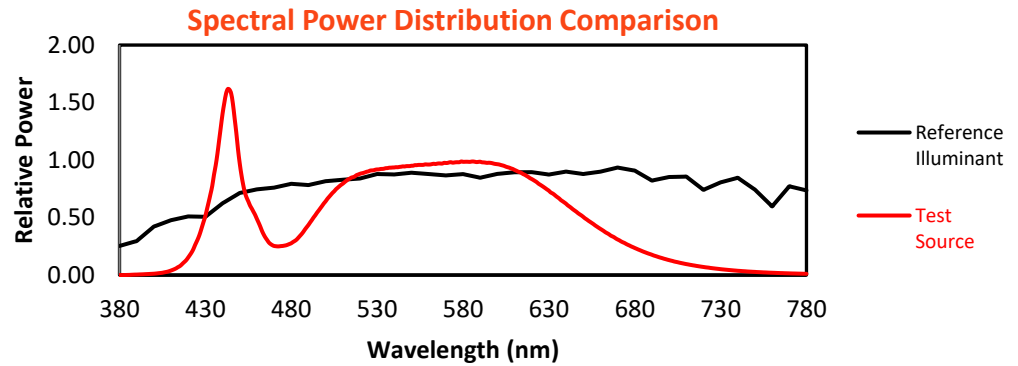
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

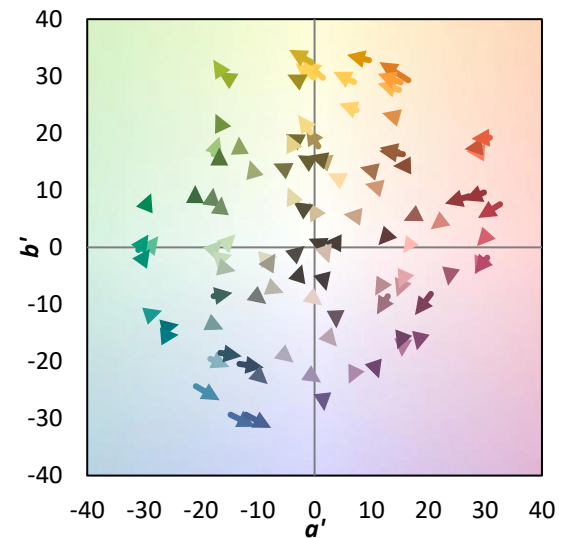
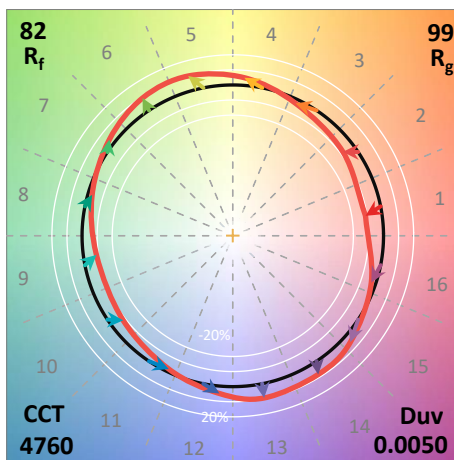
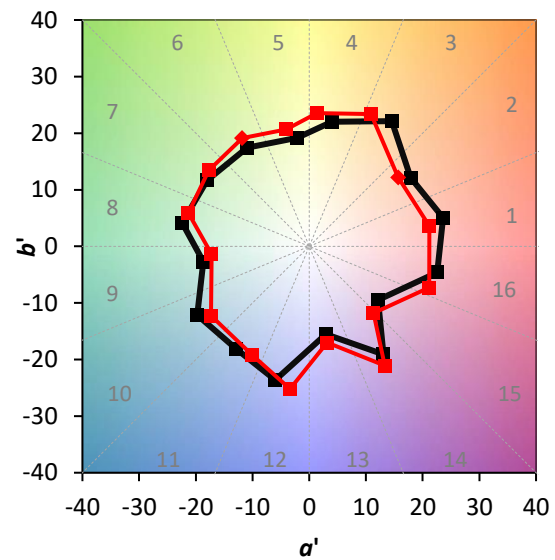
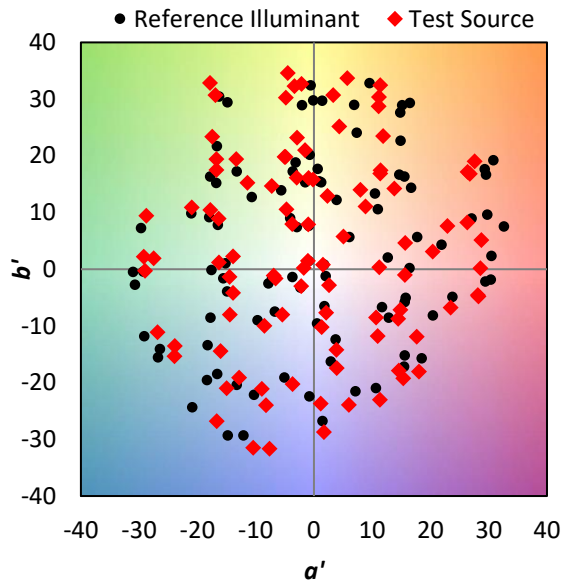
TM-30-18

Summary

$R_f = 82$
 $R_g = 99.4$
 $CIE R_a = 81.1$
 $R_9 = 8.7$

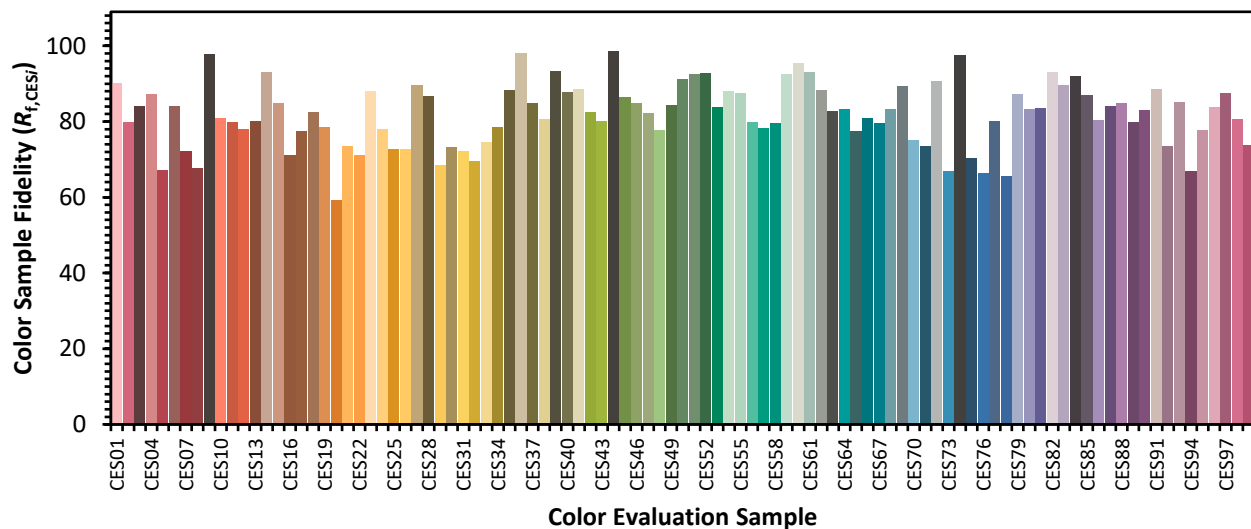


Color Vector Graphics

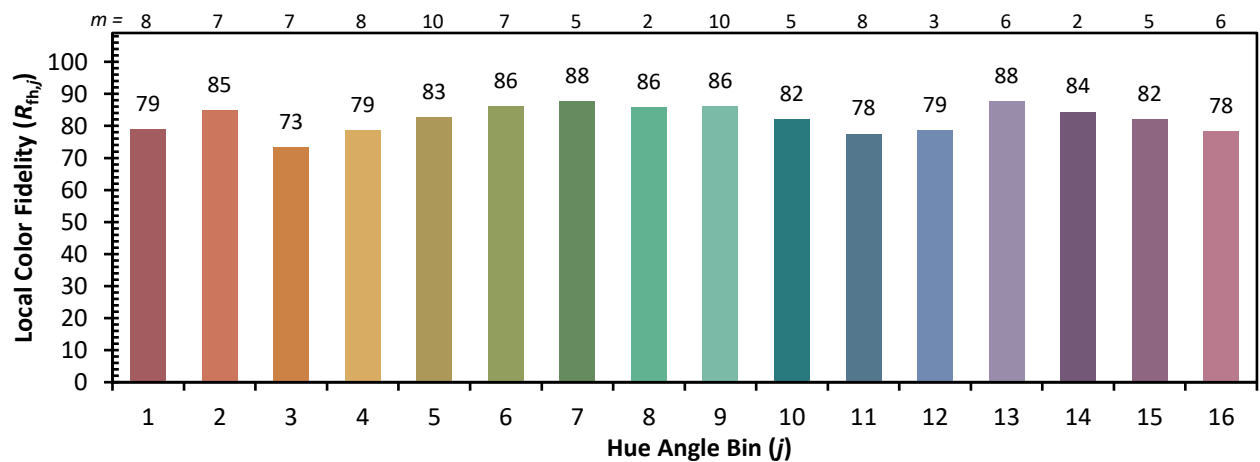
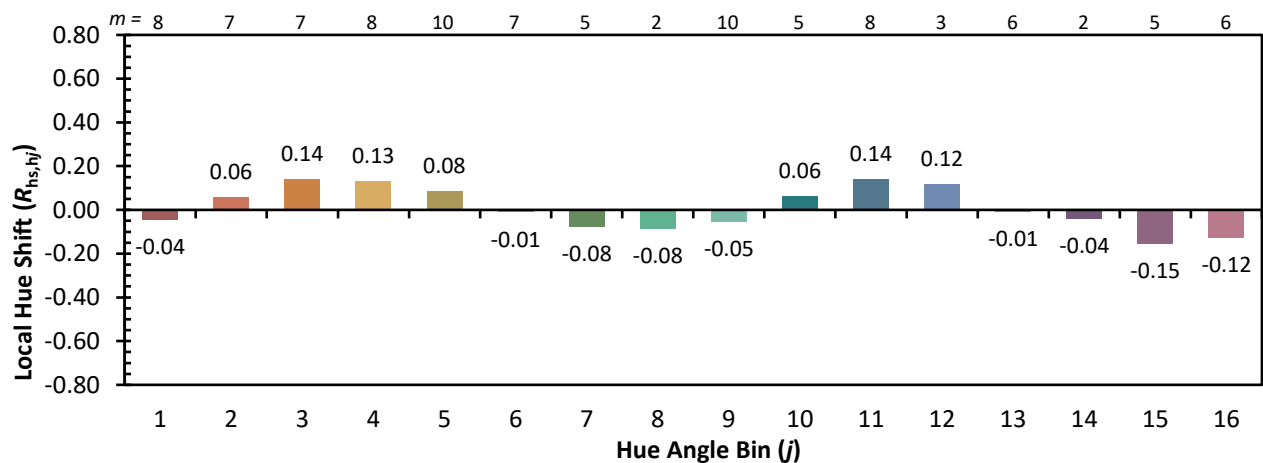
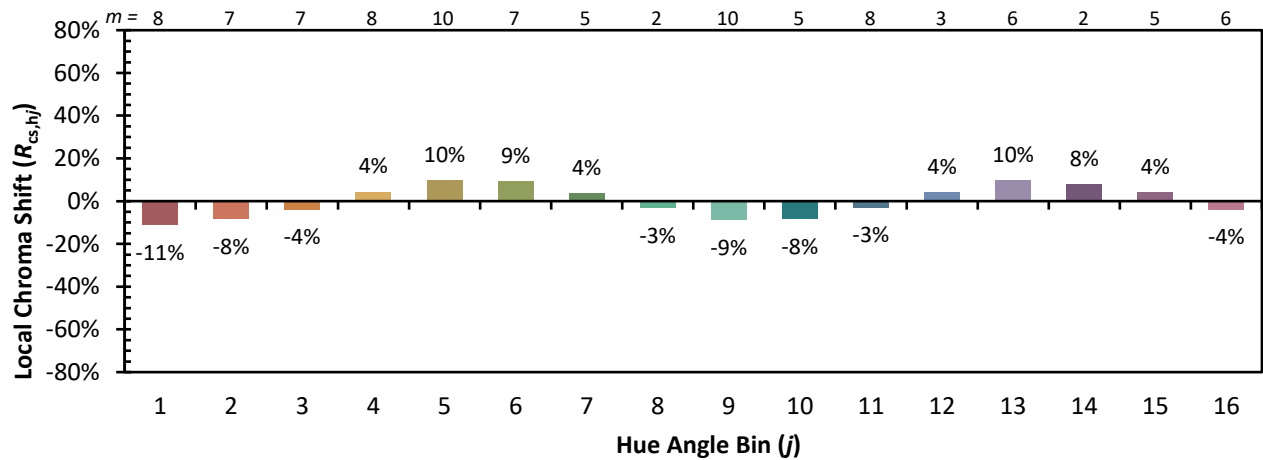


Individual Sample Fidelity Index ($R_{f,i}$)

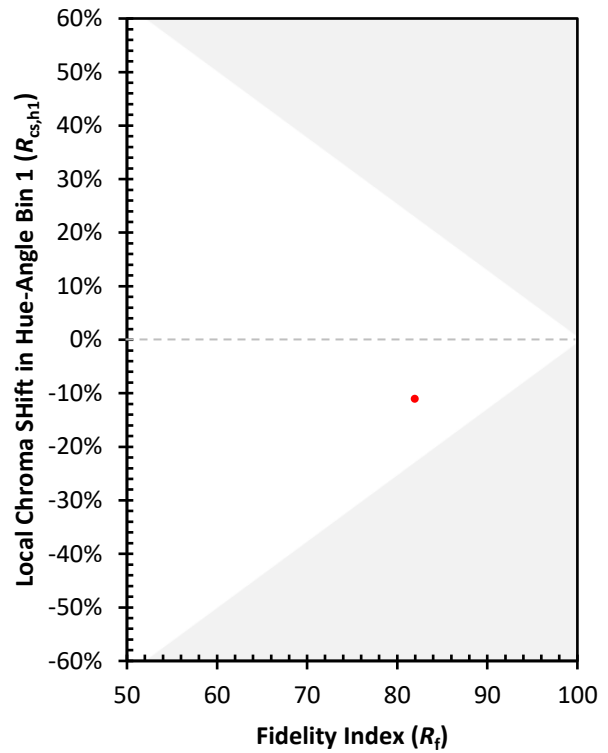
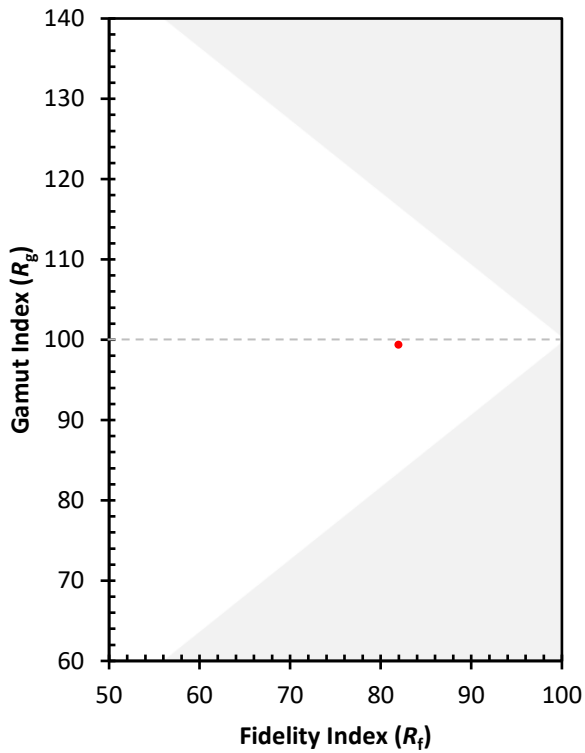
CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
CES23 = 91	CES48 = 78	CES73 = 67	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
CES25 = 71	CES50 = 91	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)