

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: P1050067

Luminaire Tested: **GALN-SA8C-950-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1050067
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 8xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31808.8 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

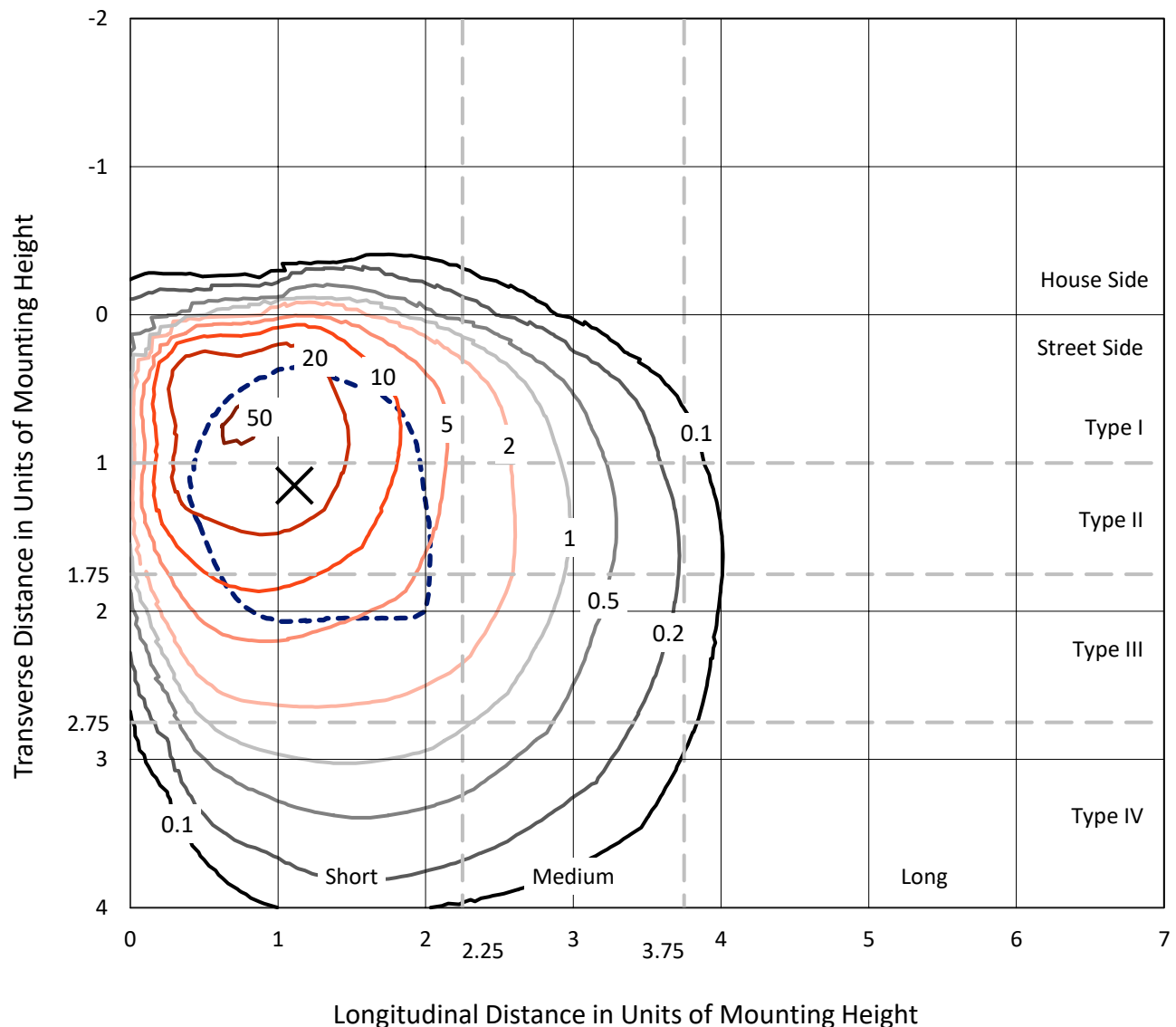
Input Watts (W): 372.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

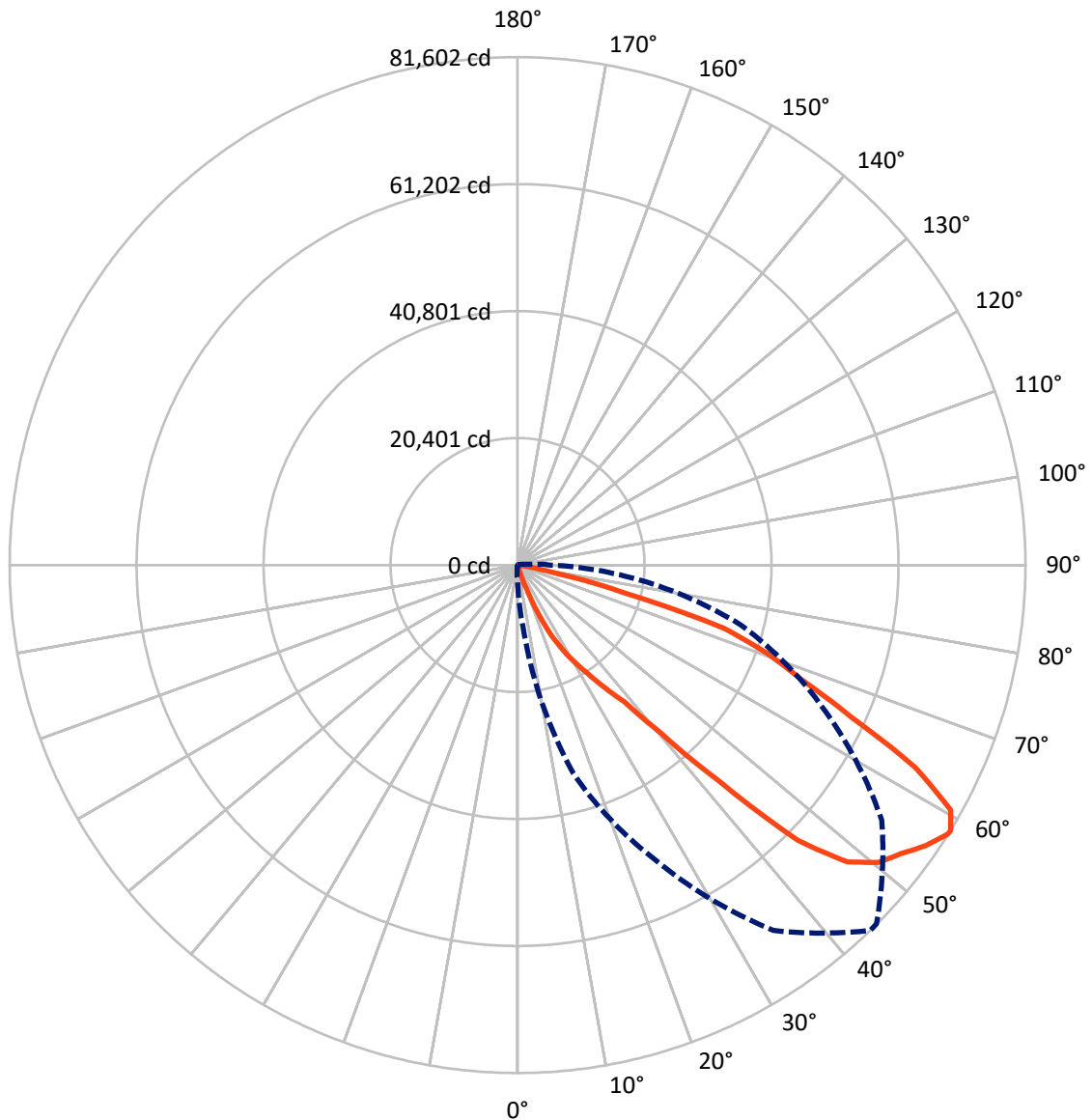
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 55.4 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	217.2	0.0	217.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	31591.6	0.0	31591.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	31808.8	0.0	31808.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.0
10°-20°	69.8	0.2
20°-30°	753.6	2.4
30°-40°	2228.5	7.0
40°-50°	6642.2	20.9
50°-60°	10539.5	33.1
60°-70°	8791.2	27.6
70°-80°	2711.4	8.5
80°-90°	60.2	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°	31808.8	100.0
0°-180°	31808.8	100.0



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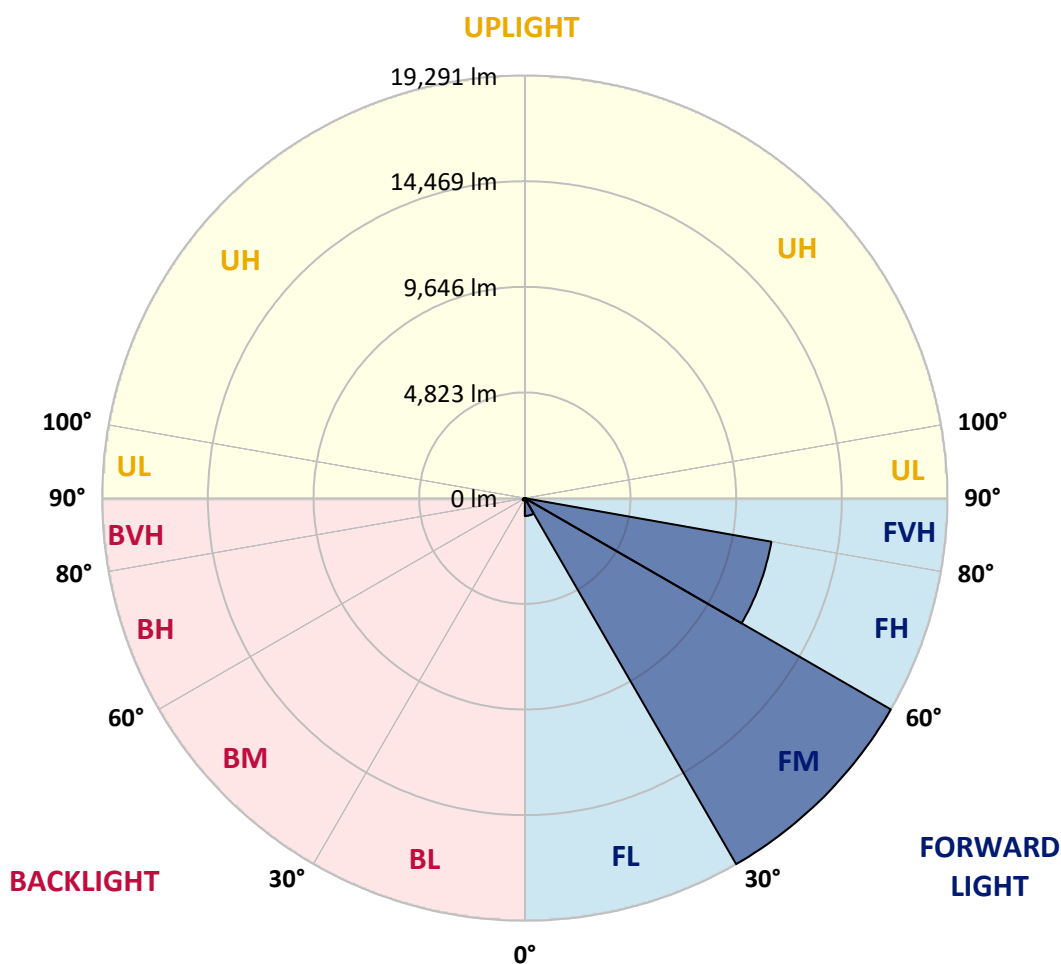
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	814.5	2.6			
FM	(30°-60°)	19291.4	60.6			
FH	(60°-80°)	11428.4	35.9			G4/12000
FVH	(80°-90°)	57.3	0.2			G1/100
BL	(0°-30°)	21.2	0.1	B0/110		
BM	(30°-60°)	118.9	0.4	B0/220		
BH	(60°-80°)	74.2	0.2	B0/110		G0/110
BVH	(80°-90°)	2.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4
2.5°	180.2	180.2	173.0	163.4	153.8	144.2	141.8	137.0	134.6	132.2
5°	187.4	187.4	185.0	177.8	168.2	161.0	161.0	153.8	149.0	144.2
7.5°	192.2	194.6	199.4	197.0	192.2	185.0	185.0	180.2	173.0	161.0
10°	199.4	206.6	216.3	221.1	223.5	223.5	221.1	218.7	206.6	189.8
12.5°	206.6	221.1	245.1	269.1	283.5	302.8	300.4	295.6	264.3	228.3
15°	221.1	242.7	293.2	362.8	471.0	538.2	564.7	540.6	437.3	307.6
17.5°	237.9	273.9	425.3	759.3	1244.7	1475.4	1614.7	1501.8	994.8	583.9
20°	254.7	334.0	790.5	1968.0	3229.5	3984.0	4193.0	3866.2	2482.2	1112.5
22.5°	283.5	468.6	1602.7	4068.1	6958.8	8090.5	8304.4	7259.1	4688.0	2196.2
25°	343.6	680.0	2763.3	6629.6	10385.3	12295.6	12206.7	10837.0	7605.1	3508.2
27.5°	430.1	990.0	4178.6	9419.3	13667.6	15352.0	15553.9	13859.8	10137.8	5159.0
30°	555.1	1372.0	5697.2	11654.0	16298.8	18120.2	18153.8	16402.1	12403.7	6607.9
32.5°	675.2	1732.5	7026.0	13814.2	18891.5	20888.3	21037.3	18881.9	14095.3	8116.9
35°	766.5	1968.0	8371.7	15712.5	21505.8	24257.1	24247.5	21688.4	16099.3	9465.0
37.5°	773.7	2203.4	9589.9	17654.0	24817.0	27897.5	28202.7	25381.7	18521.4	11132.6
40°	756.9	2467.8	11132.6	20681.6	30783.4	35509.8	35779.0	32222.7	23380.1	13987.2
42.5°	776.1	2926.7	13636.4	26273.1	40690.5	47478.6	47997.6	44258.7	32311.6	19811.8
45°	877.1	3789.3	18881.9	35627.6	54812.2	63087.7	62914.7	57529.9	42704.1	28678.4
47.5°	1211.1	5901.5	26657.6	44732.1	63837.4	71207.1	71356.1	64774.6	48768.9	35495.4
50°	1862.2	9030.0	33191.0	49545.1	67718.1	75111.8	74972.4	67367.3	51073.3	38852.2
52.5°	2422.1	11293.6	36468.6	51234.3	68215.5	77041.3	77031.7	68049.7	51431.3	39140.6
55°	2561.5	11464.2	36495.0	51325.6	69330.4	79566.7	79883.9	69729.3	51895.1	37881.5
57.5°	2506.2	10149.8	34971.6	51854.3	71315.2	81520.3	81537.1	71356.1	53072.5	37110.2
58°	2458.2	9943.1	34664.0	52154.6	71656.4	81602.0	81561.1	71430.6	54031.3	37081.3
60°	2189.0	8633.6	33465.0	52921.1	71149.4	79924.8	79542.7	69803.8	53889.5	36785.8
62.5°	1720.5	6735.3	32285.2	52034.5	65714.1	71805.4	71964.0	61799.8	49127.0	35062.9
65°	1369.6	5019.6	29824.6	45642.8	54113.0	58966.8	59557.9	50253.9	41005.2	29690.0
67.5°	1090.9	3628.4	25018.8	36338.8	42819.4	49213.5	49643.6	42192.3	31768.5	22748.1
70°	886.7	2453.3	17269.5	26575.9	35317.6	42507.0	42533.5	35050.9	23711.7	14905.1
72.5°	785.7	1698.8	10024.8	19381.7	28637.6	34637.6	33938.3	28442.9	18223.5	8828.2
75°	680.0	1127.0	4916.3	11848.6	17363.2	17481.0	17747.7	13194.2	9109.3	4197.8
77.5°	559.9	800.2	1936.7	3236.7	5207.1	6665.6	6913.1	5238.3	3030.0	1033.2
80°	384.5	379.7	521.4	992.4	1489.8	1867.0	1742.1	1348.0	793.0	396.5
82.5°	165.8	180.2	235.5	283.5	230.7	223.5	213.9	137.0	105.7	81.7
85°	52.9	48.1	50.5	50.5	40.8	31.2	31.2	14.4	0.0	0.0
87.5°	26.4	21.6	21.6	19.2	12.0	4.8	2.4	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°
139.4	0°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4
129.8	2.5°	127.4	127.4	122.5	117.7	115.3	110.5	108.1	105.7	103.3	100.9
139.4	5°	134.6	132.2	125.0	117.7	110.5	103.3	98.5	93.7	88.9	86.5
153.8	7.5°	146.6	141.8	127.4	115.3	105.7	96.1	91.3	84.1	79.3	72.1
170.6	10°	161.0	151.4	132.2	117.7	103.3	91.3	84.1	76.9	69.7	60.1
194.6	12.5°	180.2	163.4	139.4	115.3	98.5	84.1	76.9	67.3	60.1	52.9
225.9	15°	197.0	175.4	141.8	115.3	93.7	76.9	67.3	57.7	50.5	40.8
283.5	17.5°	221.1	185.0	139.4	108.1	86.5	67.3	57.7	50.5	38.4	24.0
420.5	20°	261.9	192.2	134.6	100.9	74.5	55.3	43.3	33.6	16.8	4.8
632.0	22.5°	326.8	211.5	129.8	91.3	64.9	43.3	28.8	12.0	0.0	0.0
961.2	25°	451.7	245.1	129.8	86.5	57.7	31.2	9.6	0.0	0.0	0.0
1364.8	27.5°	600.7	290.7	129.8	74.5	45.7	16.8	0.0	0.0	0.0	0.0
1859.8	30°	752.1	341.2	129.8	64.9	36.0	2.4	0.0	0.0	0.0	0.0
2289.9	32.5°	896.3	384.5	132.2	55.3	24.0	0.0	0.0	0.0	0.0	0.0
2885.9	35°	1042.9	391.7	129.8	48.1	14.4	0.0	0.0	0.0	0.0	0.0
3616.3	37.5°	1230.3	377.3	122.5	43.3	7.2	0.0	0.0	0.0	0.0	0.0
4757.7	40°	1513.8	384.5	115.3	40.8	2.4	0.0	0.0	0.0	0.0	0.0
6793.0	42.5°	2037.6	415.7	105.7	40.8	0.0	0.0	0.0	0.0	0.0	0.0
10820.2	45°	3522.6	557.5	96.1	43.3	0.0	0.0	0.0	0.0	0.0	0.0
16243.5	47.5°	5827.0	1002.0	93.7	43.3	0.0	0.0	0.0	0.0	0.0	0.0
19566.7	50°	7436.9	1261.5	98.5	45.7	0.0	0.0	0.0	0.0	0.0	0.0
19982.4	52.5°	7424.9	1405.7	103.3	48.1	9.6	0.0	0.0	0.0	0.0	0.0
18418.1	55°	6600.7	1432.1	110.5	52.9	31.2	0.0	0.0	0.0	0.0	0.0
15827.8	57.5°	5517.0	1307.2	127.4	64.9	57.7	0.0	0.0	0.0	0.0	0.0
15421.7	58°	5324.8	1249.5	132.2	67.3	62.5	0.0	0.0	0.0	0.0	0.0
13376.9	60°	4363.6	1018.8	168.2	84.1	84.1	0.0	0.0	0.0	0.0	0.0
10966.8	62.5°	3013.2	889.1	192.2	108.1	86.5	0.0	0.0	0.0	0.0	0.0
8085.7	65°	2131.4	802.6	209.1	115.3	69.7	0.0	0.0	0.0	0.0	0.0
5745.3	67.5°	1593.1	740.1	230.7	117.7	36.0	0.0	0.0	0.0	0.0	0.0
3604.3	70°	1220.7	694.4	283.5	125.0	9.6	0.0	0.0	0.0	0.0	0.0
2148.2	72.5°	994.8	641.6	343.6	129.8	0.0	0.0	0.0	0.0	0.0	0.0
1287.9	75°	824.2	579.1	331.6	141.8	0.0	0.0	0.0	0.0	0.0	0.0
687.2	77.5°	547.9	449.3	302.8	141.8	0.0	0.0	0.0	0.0	0.0	0.0
245.1	80°	192.2	177.8	235.5	125.0	0.0	0.0	0.0	0.0	0.0	0.0
50.5	82.5°	28.8	24.0	33.6	43.3	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°
139.4	0°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4
98.5	2.5°	98.5	98.5	96.1	98.5	98.5	103.3	115.3	132.2	151.4	158.6
84.1	5°	81.7	79.3	76.9	76.9	76.9	84.1	93.7	112.9	134.6	144.2
69.7	7.5°	67.3	64.9	62.5	60.1	60.1	64.9	76.9	98.5	120.1	129.8
57.7	10°	55.3	50.5	48.1	45.7	45.7	50.5	62.5	84.1	108.1	117.7
48.1	12.5°	45.7	38.4	33.6	31.2	28.8	36.0	48.1	67.3	93.7	105.7
36.0	15°	31.2	24.0	16.8	14.4	12.0	19.2	31.2	52.9	79.3	93.7
19.2	17.5°	16.8	7.2	2.4	0.0	0.0	4.8	14.4	38.4	64.9	76.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2	48.1	60.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	28.8	40.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	21.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
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	7.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	19.2
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°
139.4	0°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4
165.8	2.5°	170.6	168.2	163.4	158.6	158.6	158.6	165.8	173.0	180.2	180.2
149.0	5°	158.6	158.6	156.2	151.4	151.4	153.8	163.4	175.4	185.0	187.4
137.0	7.5°	146.6	151.4	146.6	144.2	146.6	149.0	158.6	173.0	187.4	192.2
127.4	10°	139.4	141.8	141.8	139.4	139.4	144.2	153.8	173.0	192.2	199.4
115.3	12.5°	129.8	134.6	132.2	132.2	132.2	137.0	149.0	170.6	197.0	206.6
103.3	15°	120.1	127.4	127.4	125.0	125.0	127.4	144.2	168.2	204.2	221.1
88.9	17.5°	110.5	117.7	120.1	115.3	115.3	120.1	137.0	168.2	209.1	237.9
72.1	20°	91.3	103.3	110.5	103.3	103.3	108.1	125.0	158.6	211.5	254.7
52.9	22.5°	72.1	84.1	93.7	91.3	91.3	93.7	115.3	151.4	213.9	283.5
31.2	25°	52.9	64.9	72.1	76.9	76.9	84.1	105.7	146.6	223.5	343.6
14.4	27.5°	31.2	45.7	55.3	60.1	62.5	72.1	98.5	141.8	240.3	430.1
0.0	30°	14.4	26.4	38.4	48.1	48.1	64.9	91.3	137.0	261.9	555.1
0.0	32.5°	0.0	12.0	19.2	33.6	36.0	52.9	84.1	132.2	293.2	675.2
0.0	35°	0.0	0.0	9.6	26.4	26.4	43.3	76.9	127.4	341.2	766.5
0.0	37.5°	0.0	0.0	0.0	19.2	21.6	38.4	74.5	125.0	350.8	773.7
0.0	40°	0.0	0.0	0.0	14.4	16.8	36.0	74.5	127.4	317.2	756.9
0.0	42.5°	0.0	0.0	0.0	9.6	12.0	36.0	74.5	132.2	285.9	776.1
0.0	45°	0.0	0.0	0.0	7.2	9.6	38.4	72.1	129.8	269.1	877.1
0.0	47.5°	0.0	0.0	0.0	9.6	14.4	38.4	69.7	127.4	271.5	1211.1
0.0	50°	0.0	0.0	0.0	12.0	16.8	38.4	72.1	122.5	298.0	1862.2
0.0	52.5°	0.0	0.0	0.0	9.6	14.4	43.3	79.3	120.1	324.4	2422.1
0.0	55°	0.0	0.0	0.0	2.4	7.2	55.3	86.5	120.1	365.2	2561.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	62.5	98.5	127.4	432.5	2506.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	62.5	100.9	127.4	437.3	2458.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	62.5	110.5	141.8	471.0	2189.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	52.9	132.2	177.8	490.2	1720.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	43.3	156.2	194.6	504.6	1369.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	40.8	161.0	197.0	511.8	1090.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	43.3	158.6	211.5	535.8	886.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	48.1	144.2	233.1	535.8	785.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	50.5	134.6	261.9	487.8	680.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	48.1	132.2	305.2	434.9	559.9
0.0	80°	4.8	7.2	7.2	4.8	4.8	40.8	129.8	310.0	370.0	384.5
2.4	82.5°	14.4	19.2	16.8	12.0	12.0	36.0	115.3	259.5	192.2	165.8
14.4	85°	26.4	31.2	31.2	26.4	26.4	33.6	72.1	93.7	64.9	52.9
26.4	87.5°	36.0	40.8	40.8	36.0	36.0	33.6	31.2	28.8	26.4	26.4
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



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-17

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-950-U-5WQ

Data in this report applies to families of products including GSS-SB1A-950-U-5WQ

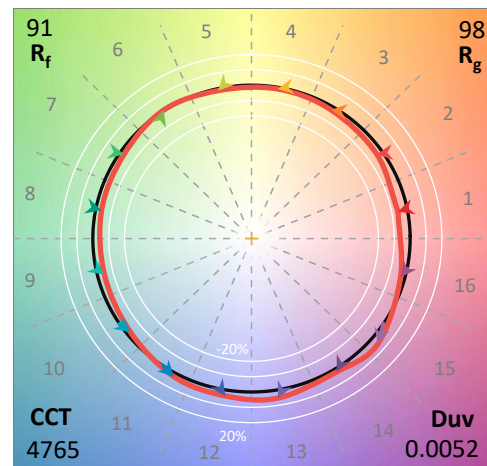
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-17
 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-950-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4765
 CIE u' : 0.2105
 CIE v' : 0.4941
 Duv: 0.0052
 CIE x: 0.3536
 CIE y: 0.3689
 CIE z: 0.2775
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 571
 Purity: 16.80041
 R_f: 90.7
 R_g: 98

CRI (Ra): 90.8
 R1: 89.8
 R2: 93.1
 R3: 95.3
 R4: 90.3
 R5: 89.0
 R6: 89.7
 R7: 94.9
 R8: 84.0
 R9: 54.9
 R10: 83.0
 R11: 89.6
 R12: 68.0
 R13: 90.6
 R14: 97.3
 R15: 86.2



Test Conditions

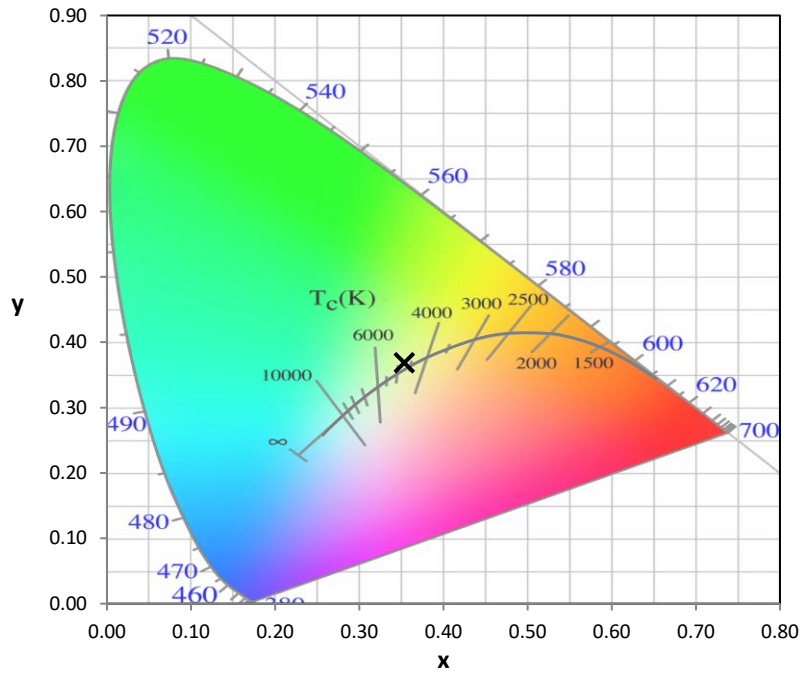
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

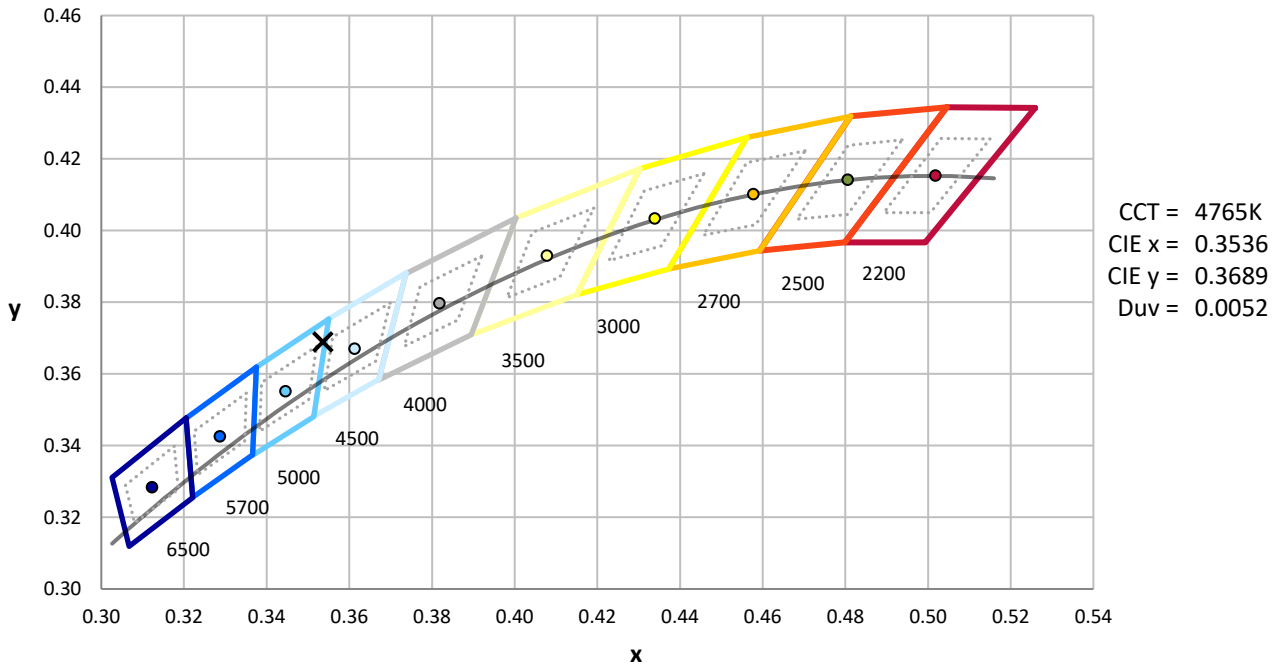
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



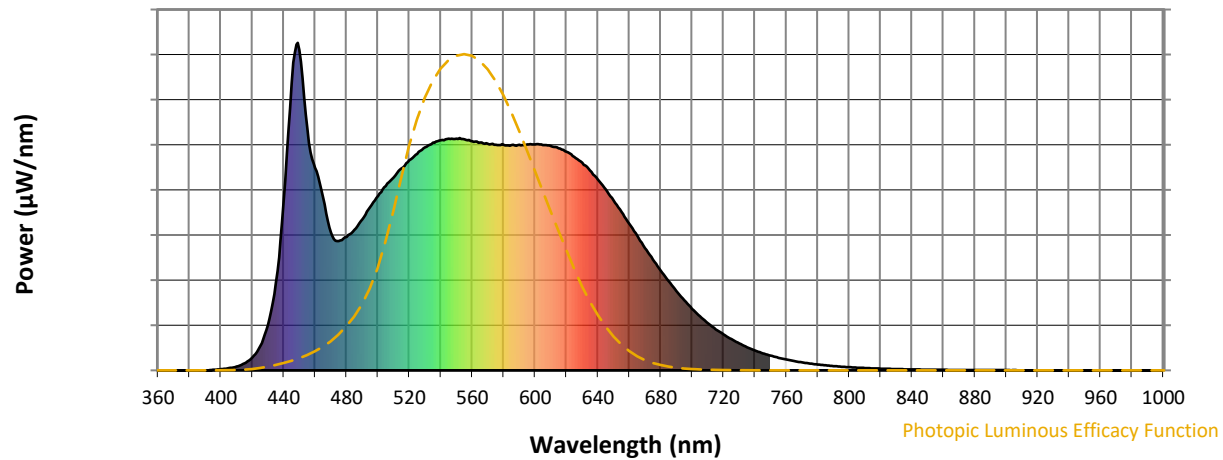
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

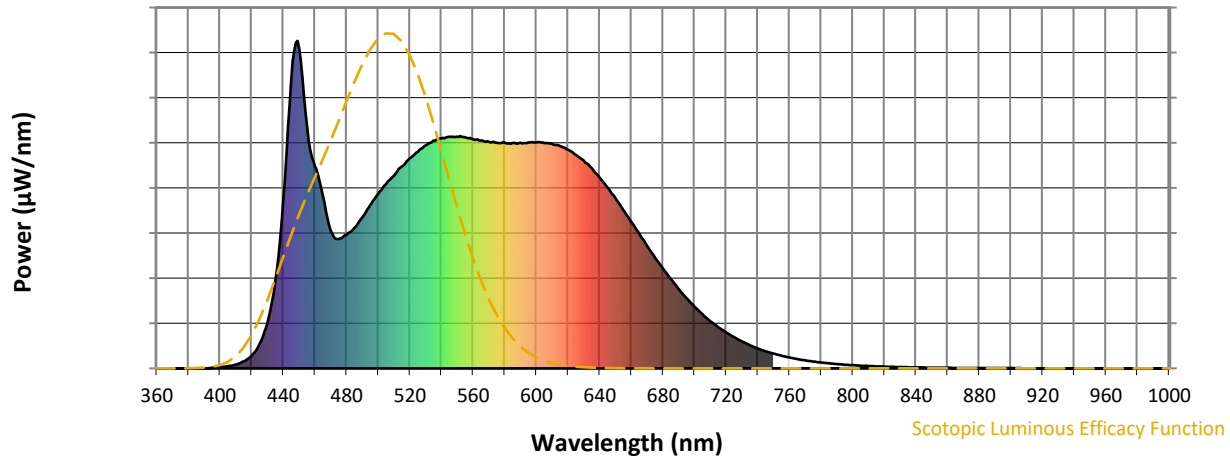


Photopic Lumens: NR

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

Scotopic Flux vs. Wavelength



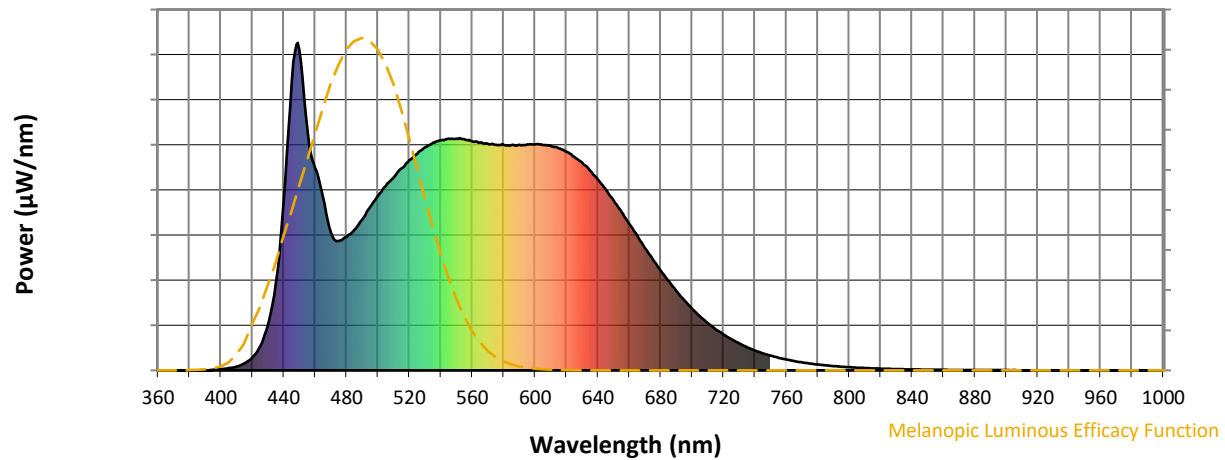
Scotopic Lumens: NR

S/P: 1.99

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.22

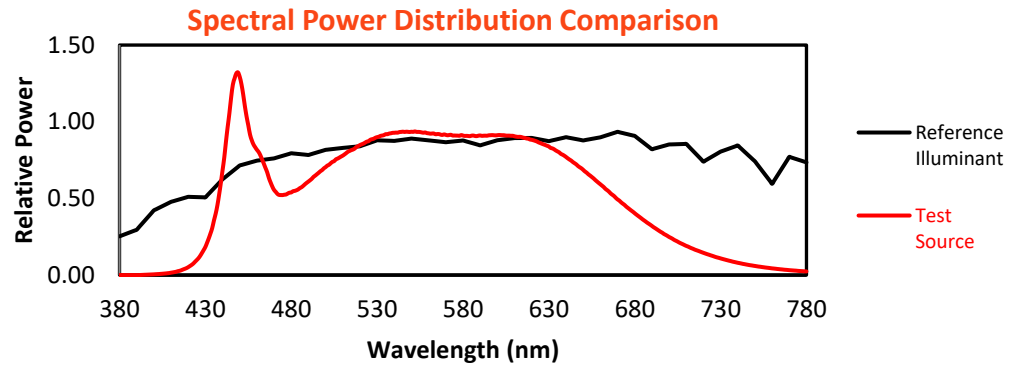
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

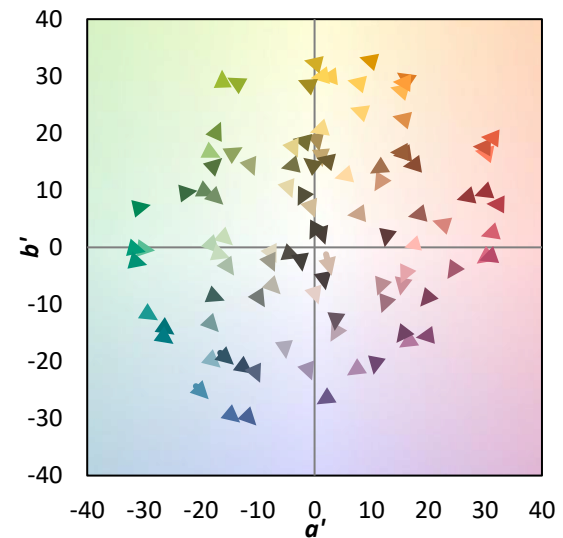
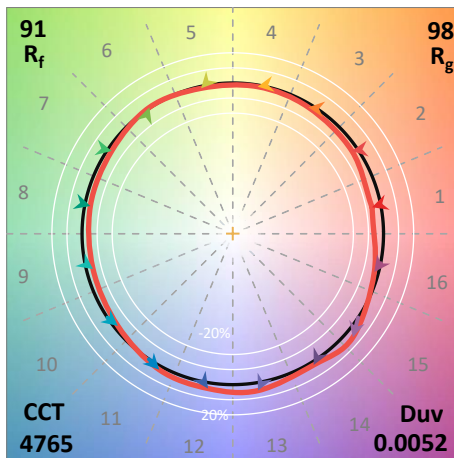
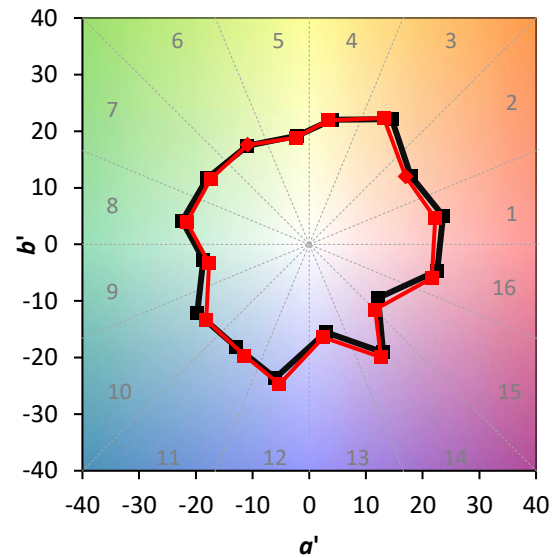
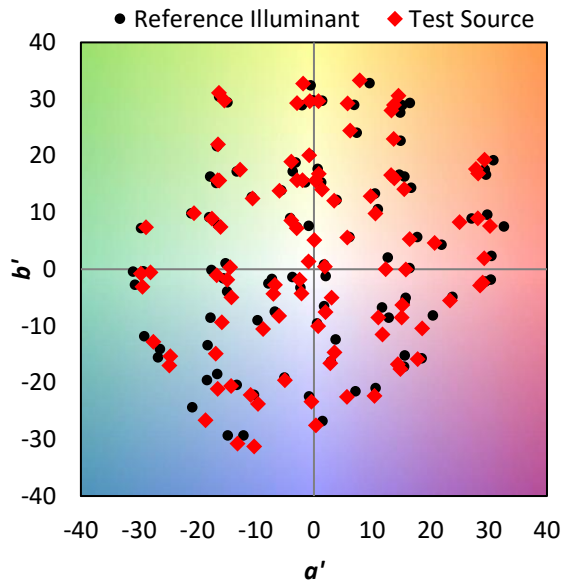
TM-30-18

Summary

$R_f = 90.7$
 $R_g = 98$
 CIE $R_a = 90.8$
 $R_9 = 54.9$

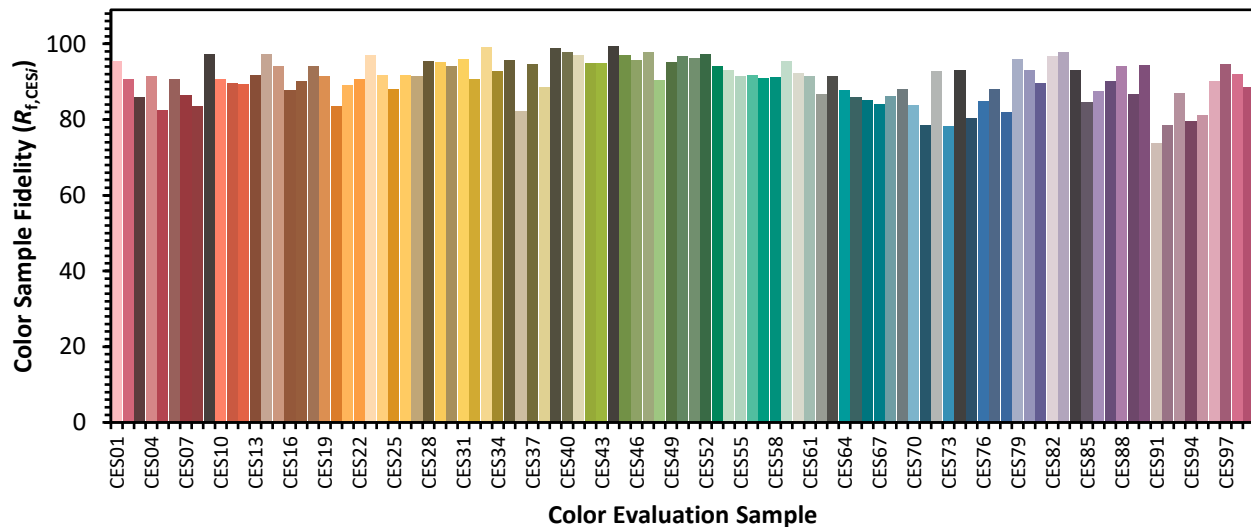


Color Vector Graphics

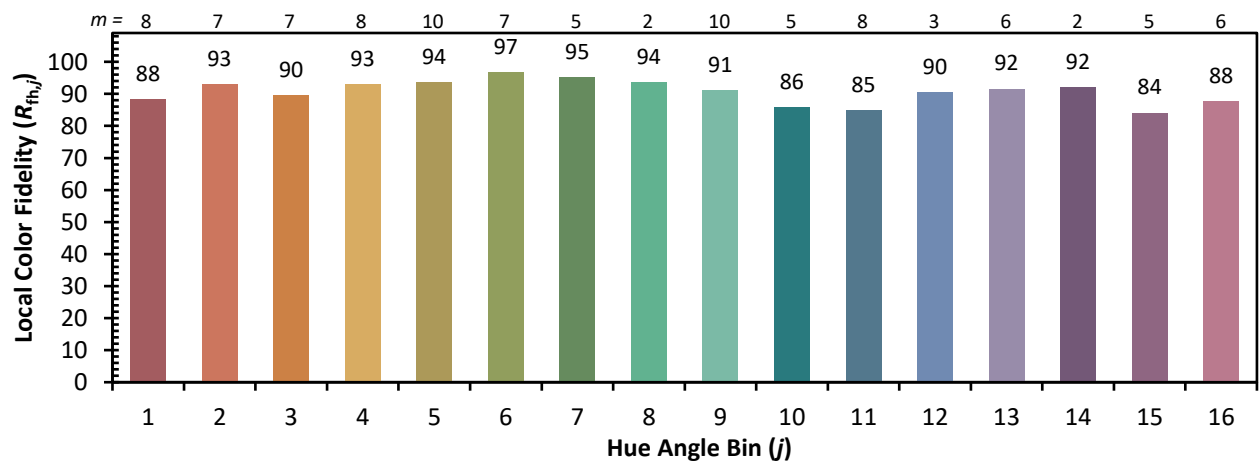
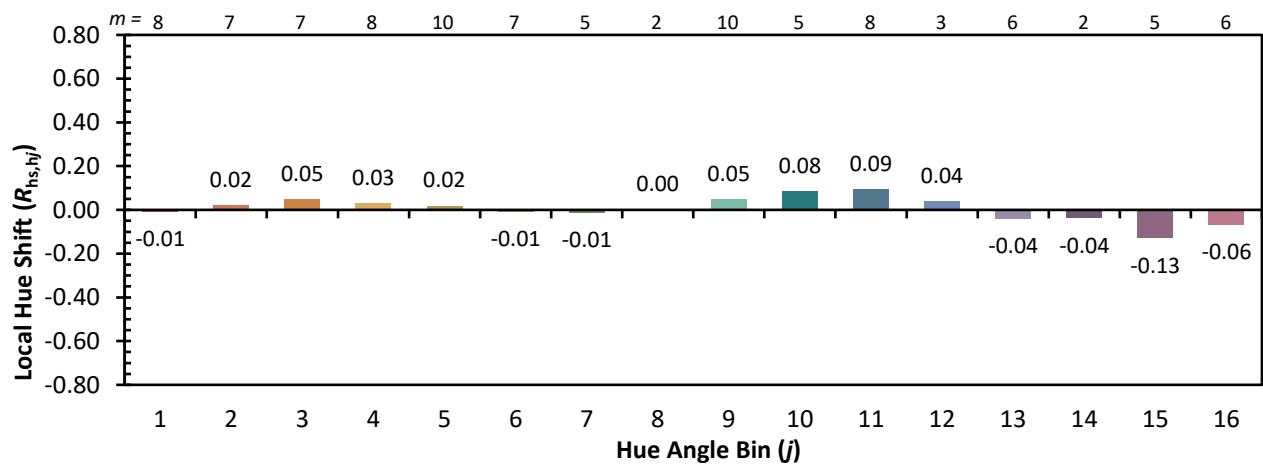
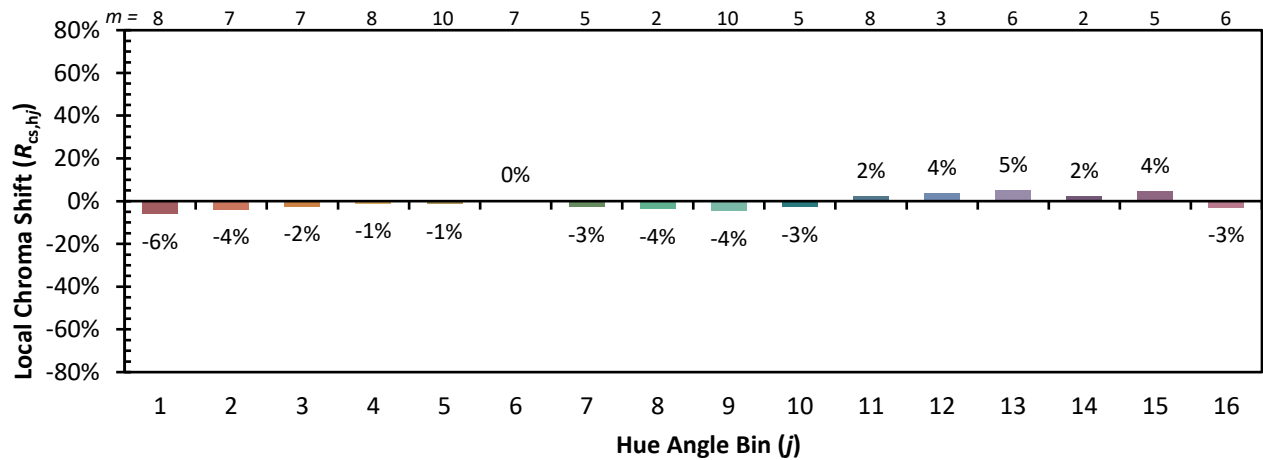


Individual Sample Fidelity Index ($R_{f,i}$)

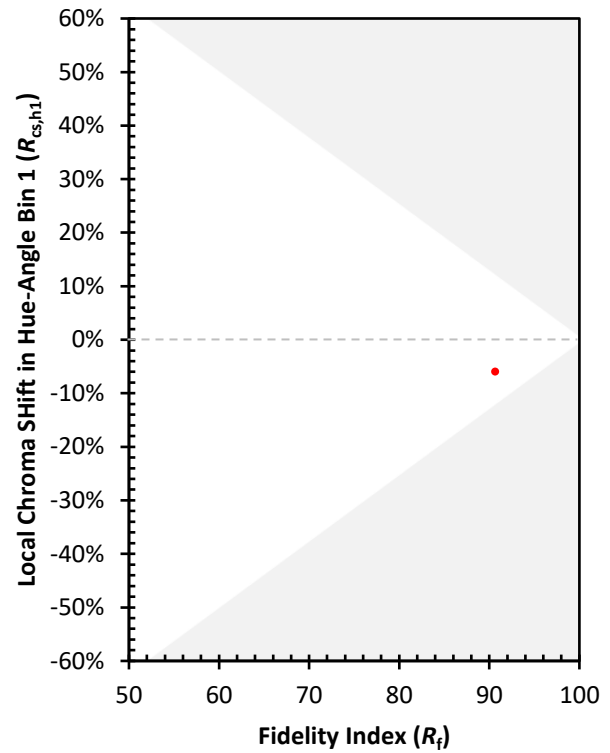
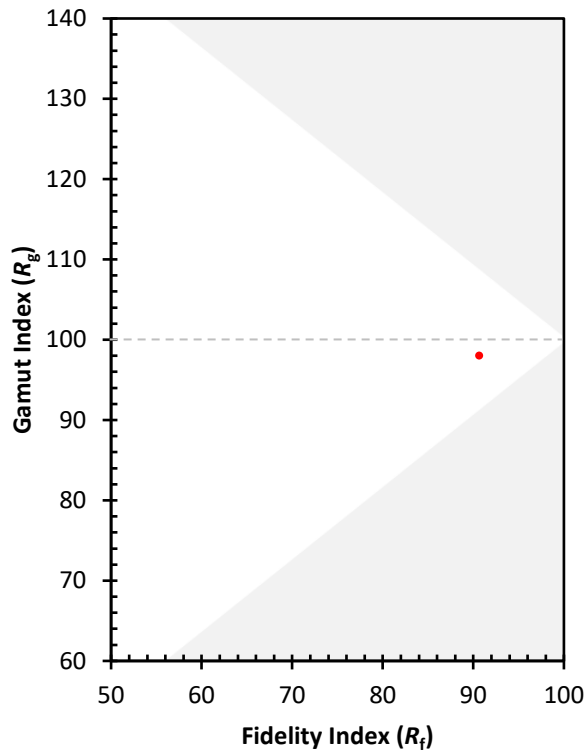
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 97
CES08 = 40	CES33 = 99	CES58 = 91	CES83 = 98
CES09 = 29	CES34 = 93	CES59 = 95	CES84 = 93
CES10 = 73	CES35 = 96	CES60 = 92	CES85 = 85
CES11 = 56	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 62	CES37 = 95	CES62 = 87	CES87 = 90
CES13 = 42	CES38 = 89	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 99	CES64 = 88	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 86	CES90 = 94
CES16 = 46	CES41 = 97	CES66 = 85	CES91 = 74
CES17 = 48	CES42 = 95	CES67 = 84	CES92 = 78
CES18 = 56	CES43 = 95	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 100	CES69 = 88	CES94 = 80
CES20 = 65	CES45 = 97	CES70 = 84	CES95 = 81
CES21 = 85	CES46 = 96	CES71 = 79	CES96 = 90
CES22 = 77	CES47 = 98	CES72 = 93	CES97 = 95
CES23 = 91	CES48 = 90	CES73 = 78	CES98 = 92
CES24 = 90	CES49 = 95	CES74 = 93	CES99 = 88
CES25 = 70	CES50 = 97	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)