

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: P1050063

Luminaire Tested: **GALN-SA7C-950-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050063
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 7xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27883.4 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

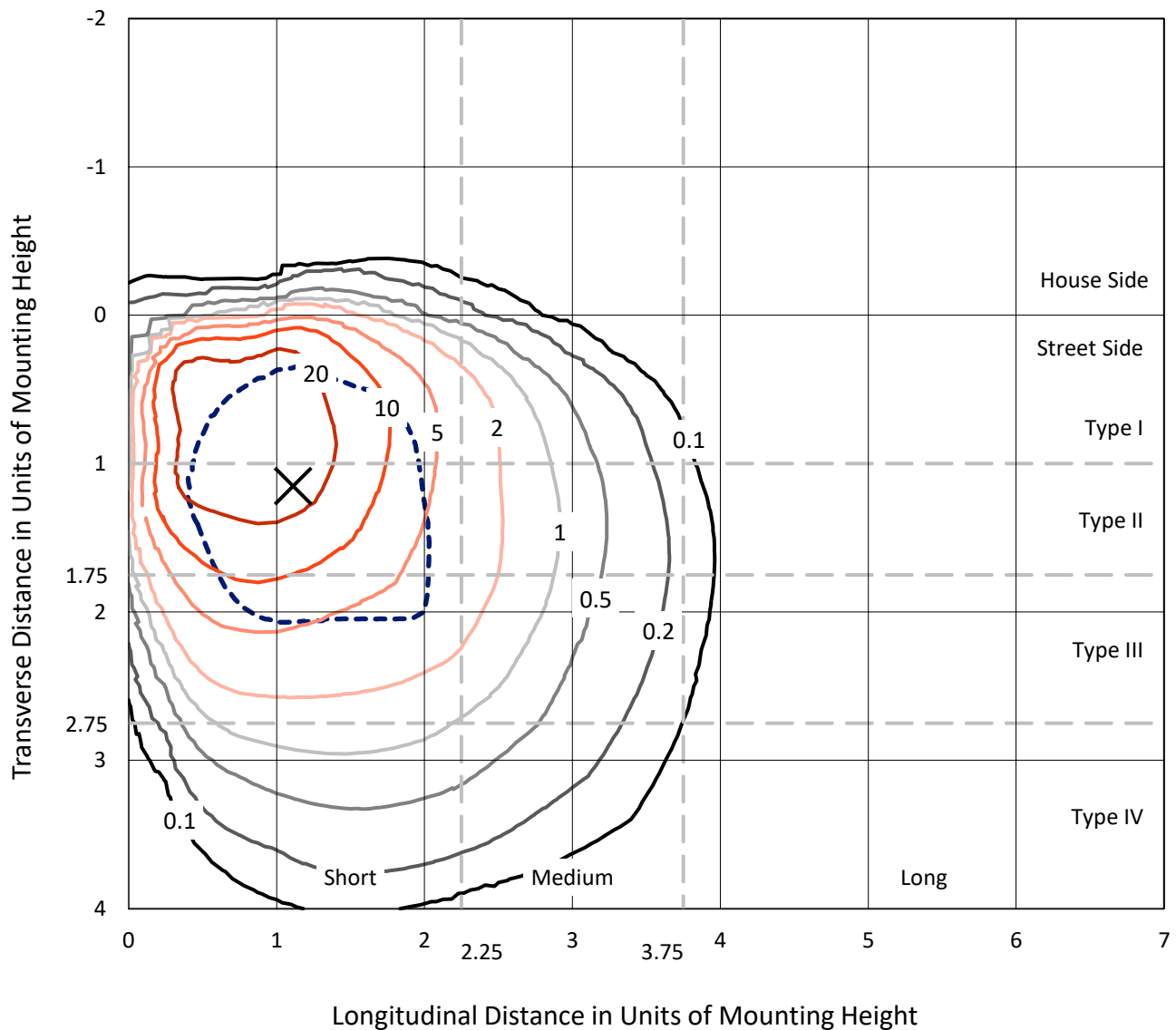
Input Watts (W): 330
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

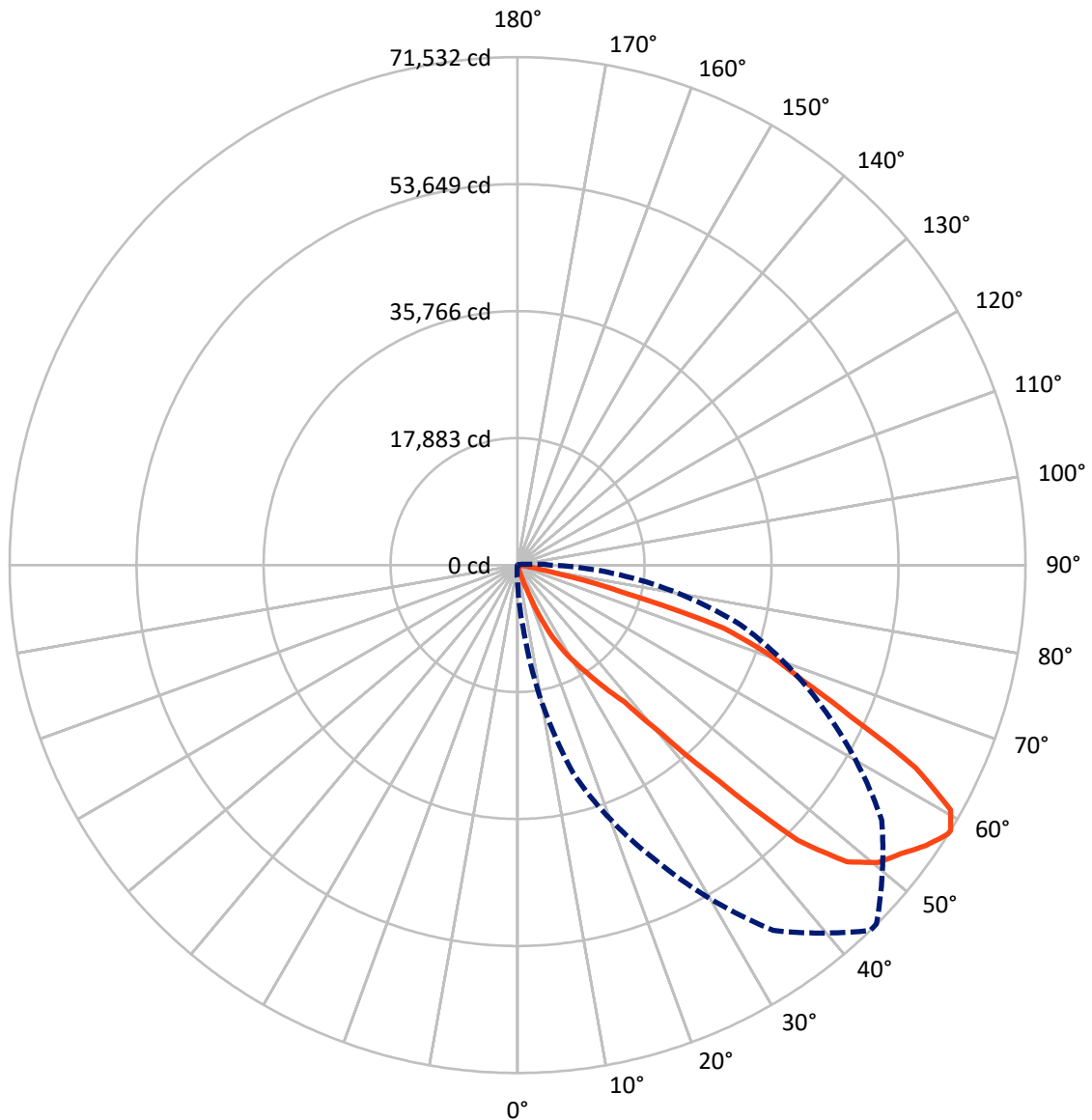
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 48.5 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	190.4	0.0	190.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	27693.0	0.0	27693.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	27883.4	0.0	27883.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	0.0
10°-20°	61.1	0.2
20°-30°	660.6	2.4
30°-40°	1953.5	7.0
40°-50°	5822.5	20.9
50°-60°	9238.9	33.1
60°-70°	7706.3	27.6
70°-80°	2376.8	8.5
80°-90°	52.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	27883.4	100.0
0°-180°	27883.4	100.0



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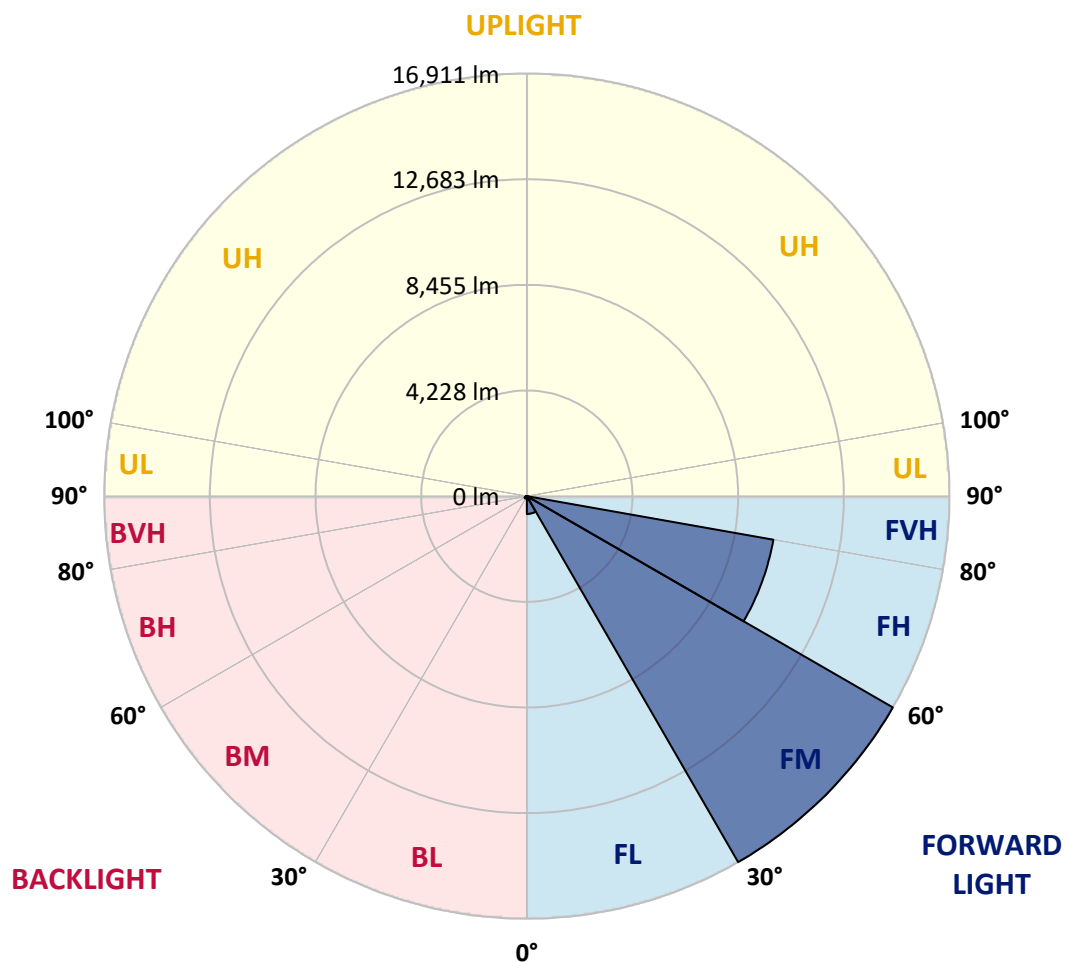
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	714.0	2.6			
FM	(30°-60°)	16910.7	60.6			
FH	(60°-80°)	10018.1	35.9			G4/12000
FVH	(80°-90°)	50.2	0.2			G1/100
BL	(0°-30°)	18.6	0.1	B0/110		
BM	(30°-60°)	104.2	0.4	B0/220		
BH	(60°-80°)	65.0	0.2	B0/110		G0/110
BVH	(80°-90°)	2.6	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	122.2	122.2	122.2	122.2	122.2	122.2	122.2	122.2	122.2	122.2
2.5°	158.0	158.0	151.7	143.2	134.8	126.4	124.3	120.1	118.0	115.8
5°	164.3	164.3	162.2	155.9	147.4	141.1	141.1	134.8	130.6	126.4
7.5°	168.5	170.6	174.8	172.7	168.5	162.2	162.2	158.0	151.7	141.1
10°	174.8	181.1	189.6	193.8	195.9	195.9	193.8	191.7	181.1	166.4
12.5°	181.1	193.8	214.8	235.9	248.5	265.4	263.3	259.1	231.7	200.1
15°	193.8	212.7	257.0	318.1	412.8	471.8	495.0	473.9	383.4	269.6
17.5°	208.5	240.1	372.8	665.6	1091.1	1293.3	1415.5	1316.5	872.0	511.8
20°	223.3	292.8	693.0	1725.1	2830.9	3492.3	3675.6	3389.1	2175.9	975.2
22.5°	248.5	410.7	1404.9	3566.1	6100.0	7092.1	7279.5	6363.3	4109.5	1925.2
25°	301.2	596.1	2422.3	5811.4	9103.6	10778.2	10700.3	9499.6	6666.6	3075.3
27.5°	377.0	867.8	3662.9	8256.9	11980.9	13457.5	13634.4	12149.4	8886.7	4522.3
30°	486.6	1202.7	4994.2	10215.8	14287.4	15884.0	15913.5	14378.0	10873.0	5792.5
32.5°	591.9	1518.7	6159.0	12109.4	16560.1	18310.5	18441.1	16551.7	12355.9	7115.3
35°	671.9	1725.1	7338.5	13773.4	18851.8	21263.6	21255.2	19011.9	14112.6	8296.9
37.5°	678.2	1931.5	8406.4	15475.4	21754.4	24454.7	24722.2	22249.4	16235.8	9758.7
40°	663.5	2163.2	9758.7	18129.4	26984.5	31127.7	31363.6	28246.2	20494.8	12261.1
42.5°	680.4	2565.5	11953.5	23030.8	35668.9	41619.4	42074.4	38796.9	28324.1	17366.9
45°	768.8	3321.7	16551.7	31230.9	48048.0	55302.2	55150.6	50430.3	37434.1	25139.3
47.5°	1061.6	5173.2	23367.9	39211.8	55959.4	62419.6	62550.2	56780.9	42750.5	31115.0
50°	1632.4	7915.7	29095.0	43430.9	59361.2	65842.4	65720.3	59053.7	44770.5	34057.6
52.5°	2123.2	9899.9	31968.1	44911.6	59797.2	67533.8	67525.4	59651.9	45084.3	34310.4
55°	2245.4	10049.4	31991.3	44991.7	60774.5	69747.6	70025.6	61124.2	45490.9	33206.6
57.5°	2196.9	8897.2	30655.8	45455.1	62514.4	71460.1	71474.8	62550.2	46523.0	32530.5
58°	2154.8	8716.1	30386.2	45718.4	62813.5	71531.7	71495.9	62615.5	47363.4	32505.2
60°	1918.9	7568.1	29335.2	46390.3	62369.1	70061.4	69726.5	61189.5	47239.1	32246.1
62.5°	1508.1	5904.1	28300.9	45613.0	57604.5	62944.1	63083.1	54173.2	43064.3	30735.9
65°	1200.6	4400.2	26144.0	40010.1	47435.0	51689.9	52208.0	44052.2	35944.9	26026.1
67.5°	956.3	3180.6	21931.3	31854.3	37535.2	43140.2	43517.2	36985.4	27848.1	19940.8
70°	777.2	2150.6	15138.3	23296.2	30959.1	37261.4	37284.5	30725.3	20785.5	13065.7
72.5°	688.8	1489.2	8787.7	16989.8	25103.5	30363.1	29750.1	24932.9	15974.6	7738.7
75°	596.1	987.9	4309.6	10386.4	15220.5	15323.7	15557.5	11566.0	7985.2	3679.8
77.5°	490.8	701.4	1697.7	2837.3	4564.5	5843.0	6060.0	4591.8	2656.1	905.7
80°	337.0	332.8	457.1	869.9	1305.9	1636.6	1527.1	1181.7	695.1	347.5
82.5°	145.3	158.0	206.4	248.5	202.2	195.9	187.5	120.1	92.7	71.6
85°	46.3	42.1	44.2	44.2	35.8	27.4	27.4	12.6	0.0	0.0
87.5°	23.2	19.0	19.0	16.9	10.5	4.2	2.1	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°
122.2	0°	122.2	122.2	122.2	122.2	122.2	122.2	122.2	122.2	122.2	122.2
113.7	2.5°	111.6	111.6	107.4	103.2	101.1	96.9	94.8	92.7	90.6	88.5
122.2	5°	118.0	115.8	109.5	103.2	96.9	90.6	86.4	82.1	77.9	75.8
134.8	7.5°	128.5	124.3	111.6	101.1	92.7	84.3	80.0	73.7	69.5	63.2
149.6	10°	141.1	132.7	115.8	103.2	90.6	80.0	73.7	67.4	61.1	52.7
170.6	12.5°	158.0	143.2	122.2	101.1	86.4	73.7	67.4	59.0	52.7	46.3
198.0	15°	172.7	153.8	124.3	101.1	82.1	67.4	59.0	50.6	44.2	35.8
248.5	17.5°	193.8	162.2	122.2	94.8	75.8	59.0	50.6	44.2	33.7	21.1
368.6	20°	229.6	168.5	118.0	88.5	65.3	48.4	37.9	29.5	14.7	4.2
554.0	22.5°	286.5	185.4	113.7	80.0	56.9	37.9	25.3	10.5	0.0	0.0
842.5	25°	396.0	214.8	113.7	75.8	50.6	27.4	8.4	0.0	0.0	0.0
1196.4	27.5°	526.6	254.9	113.7	65.3	40.0	14.7	0.0	0.0	0.0	0.0
1630.3	30°	659.3	299.1	113.7	56.9	31.6	2.1	0.0	0.0	0.0	0.0
2007.4	32.5°	785.7	337.0	115.8	48.4	21.1	0.0	0.0	0.0	0.0	0.0
2529.7	35°	914.2	343.3	113.7	42.1	12.6	0.0	0.0	0.0	0.0	0.0
3170.1	37.5°	1078.5	330.7	107.4	37.9	6.3	0.0	0.0	0.0	0.0	0.0
4170.6	40°	1327.0	337.0	101.1	35.8	2.1	0.0	0.0	0.0	0.0	0.0
5954.7	42.5°	1786.2	364.4	92.7	35.8	0.0	0.0	0.0	0.0	0.0	0.0
9484.9	45°	3087.9	488.7	84.3	37.9	0.0	0.0	0.0	0.0	0.0	0.0
14238.9	47.5°	5107.9	878.3	82.1	37.9	0.0	0.0	0.0	0.0	0.0	0.0
17152.0	50°	6519.2	1105.8	86.4	40.0	0.0	0.0	0.0	0.0	0.0	0.0
17516.4	52.5°	6508.6	1232.2	90.6	42.1	8.4	0.0	0.0	0.0	0.0	0.0
16145.2	55°	5786.1	1255.4	96.9	46.3	27.4	0.0	0.0	0.0	0.0	0.0
13874.5	57.5°	4836.2	1145.9	111.6	56.9	50.6	0.0	0.0	0.0	0.0	0.0
13518.6	58°	4667.7	1095.3	115.8	59.0	54.8	0.0	0.0	0.0	0.0	0.0
11726.1	60°	3825.1	893.1	147.4	73.7	73.7	0.0	0.0	0.0	0.0	0.0
9613.4	62.5°	2641.4	779.3	168.5	94.8	75.8	0.0	0.0	0.0	0.0	0.0
7087.9	65°	1868.3	703.5	183.3	101.1	61.1	0.0	0.0	0.0	0.0	0.0
5036.3	67.5°	1396.5	648.8	202.2	103.2	31.6	0.0	0.0	0.0	0.0	0.0
3159.5	70°	1070.0	608.7	248.5	109.5	8.4	0.0	0.0	0.0	0.0	0.0
1883.1	72.5°	872.0	562.4	301.2	113.7	0.0	0.0	0.0	0.0	0.0	0.0
1129.0	75°	722.5	507.6	290.7	124.3	0.0	0.0	0.0	0.0	0.0	0.0
602.4	77.5°	480.2	393.9	265.4	124.3	0.0	0.0	0.0	0.0	0.0	0.0
214.8	80°	168.5	155.9	206.4	109.5	0.0	0.0	0.0	0.0	0.0	0.0
44.2	82.5°	25.3	21.1	29.5	37.9	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°
122.2	0°	122.2	122.2	122.2	122.2	122.2	122.2	122.2	122.2	122.2	122.2
86.4	2.5°	86.4	86.4	84.3	86.4	86.4	90.6	101.1	115.8	132.7	139.0
73.7	5°	71.6	69.5	67.4	67.4	67.4	73.7	82.1	99.0	118.0	126.4
61.1	7.5°	59.0	56.9	54.8	52.7	52.7	56.9	67.4	86.4	105.3	113.7
50.6	10°	48.4	44.2	42.1	40.0	40.0	44.2	54.8	73.7	94.8	103.2
42.1	12.5°	40.0	33.7	29.5	27.4	25.3	31.6	42.1	59.0	82.1	92.7
31.6	15°	27.4	21.1	14.7	12.6	10.5	16.9	27.4	46.3	69.5	82.1
16.9	17.5°	14.7	6.3	2.1	0.0	0.0	4.2	12.6	33.7	56.9	67.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.9	42.1	52.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	25.3	35.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	19.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
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	6.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	16.9
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°
122.2	0°	122.2	122.2	122.2	122.2	122.2	122.2	122.2	122.2	122.2	122.2
145.3	2.5°	149.6	147.4	143.2	139.0	139.0	139.0	145.3	151.7	158.0	158.0
130.6	5°	139.0	139.0	136.9	132.7	132.7	134.8	143.2	153.8	162.2	164.3
120.1	7.5°	128.5	132.7	128.5	126.4	128.5	130.6	139.0	151.7	164.3	168.5
111.6	10°	122.2	124.3	124.3	122.2	122.2	126.4	134.8	151.7	168.5	174.8
101.1	12.5°	113.7	118.0	115.8	115.8	115.8	120.1	130.6	149.6	172.7	181.1
90.6	15°	105.3	111.6	111.6	109.5	109.5	111.6	126.4	147.4	179.0	193.8
77.9	17.5°	96.9	103.2	105.3	101.1	101.1	105.3	120.1	147.4	183.3	208.5
63.2	20°	80.0	90.6	96.9	90.6	90.6	94.8	109.5	139.0	185.4	223.3
46.3	22.5°	63.2	73.7	82.1	80.0	80.0	82.1	101.1	132.7	187.5	248.5
27.4	25°	46.3	56.9	63.2	67.4	67.4	73.7	92.7	128.5	195.9	301.2
12.6	27.5°	27.4	40.0	48.4	52.7	54.8	63.2	86.4	124.3	210.6	377.0
0.0	30°	12.6	23.2	33.7	42.1	42.1	56.9	80.0	120.1	229.6	486.6
0.0	32.5°	0.0	10.5	16.9	29.5	31.6	46.3	73.7	115.8	257.0	591.9
0.0	35°	0.0	0.0	8.4	23.2	23.2	37.9	67.4	111.6	299.1	671.9
0.0	37.5°	0.0	0.0	0.0	16.9	19.0	33.7	65.3	109.5	307.5	678.2
0.0	40°	0.0	0.0	0.0	12.6	14.7	31.6	65.3	111.6	278.0	663.5
0.0	42.5°	0.0	0.0	0.0	8.4	10.5	31.6	65.3	115.8	250.7	680.4
0.0	45°	0.0	0.0	0.0	6.3	8.4	33.7	63.2	113.7	235.9	768.8
0.0	47.5°	0.0	0.0	0.0	8.4	12.6	33.7	61.1	111.6	238.0	1061.6
0.0	50°	0.0	0.0	0.0	10.5	14.7	33.7	63.2	107.4	261.2	1632.4
0.0	52.5°	0.0	0.0	0.0	8.4	12.6	37.9	69.5	105.3	284.4	2123.2
0.0	55°	0.0	0.0	0.0	2.1	6.3	48.4	75.8	105.3	320.2	2245.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	54.8	86.4	111.6	379.1	2196.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	54.8	88.5	111.6	383.4	2154.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	54.8	96.9	124.3	412.8	1918.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	46.3	115.8	155.9	429.7	1508.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	37.9	136.9	170.6	442.3	1200.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	35.8	141.1	172.7	448.7	956.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	37.9	139.0	185.4	469.7	777.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	42.1	126.4	204.3	469.7	688.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	44.2	118.0	229.6	427.6	596.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	42.1	115.8	267.5	381.2	490.8
0.0	80°	4.2	6.3	6.3	4.2	4.2	35.8	113.7	271.7	324.4	337.0
2.1	82.5°	12.6	16.9	14.7	10.5	10.5	31.6	101.1	227.5	168.5	145.3
12.6	85°	23.2	27.4	27.4	23.2	23.2	29.5	63.2	82.1	56.9	46.3
23.2	87.5°	31.6	35.8	35.8	31.6	31.6	29.5	27.4	25.3	23.2	23.2
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

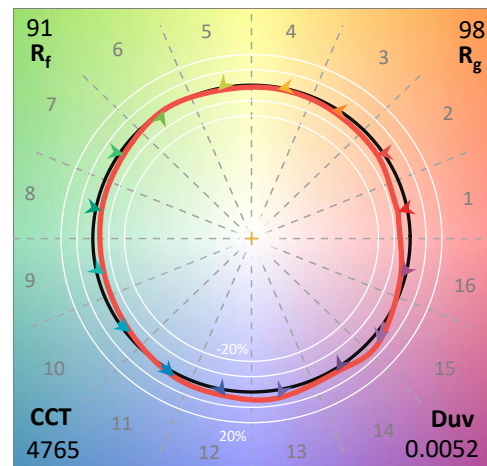
Test Information

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

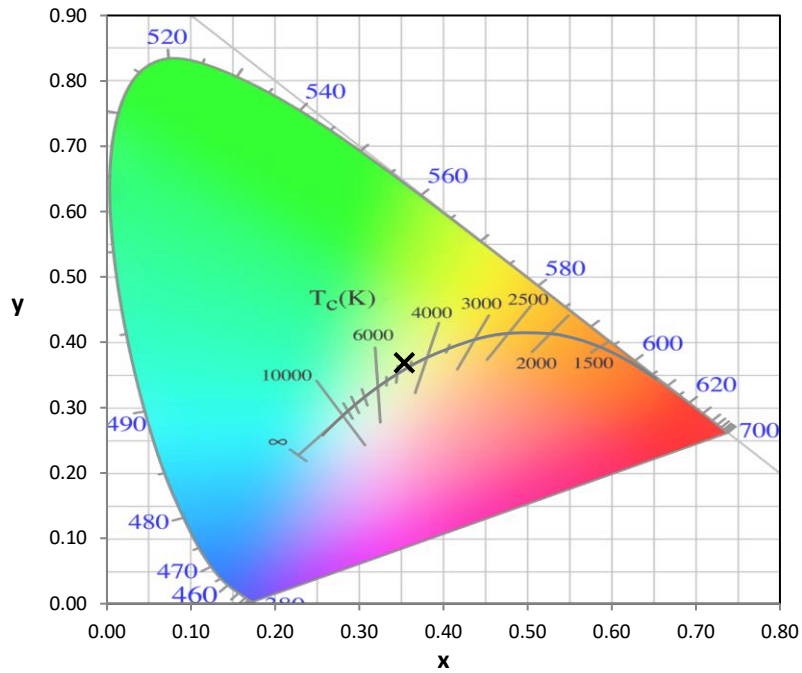
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

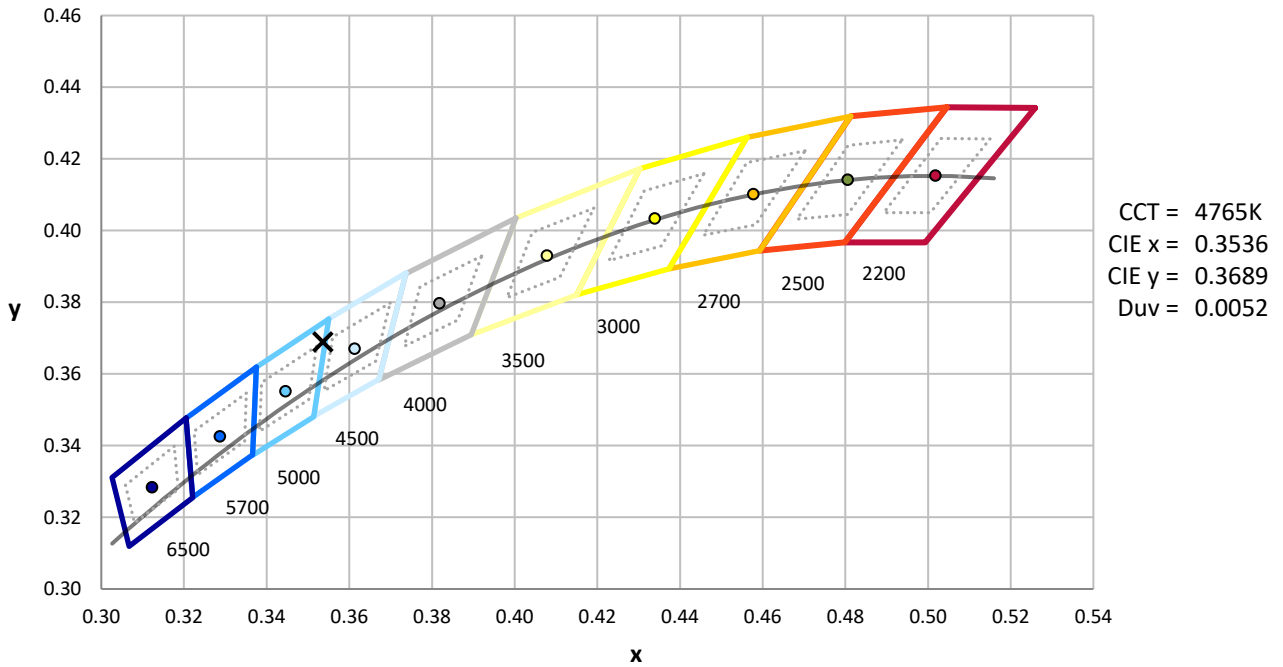
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



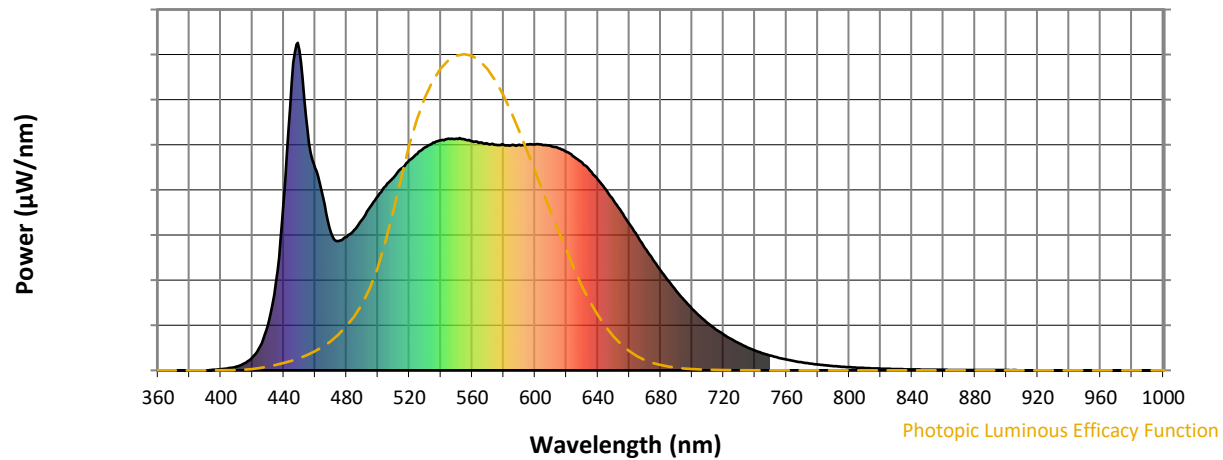
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

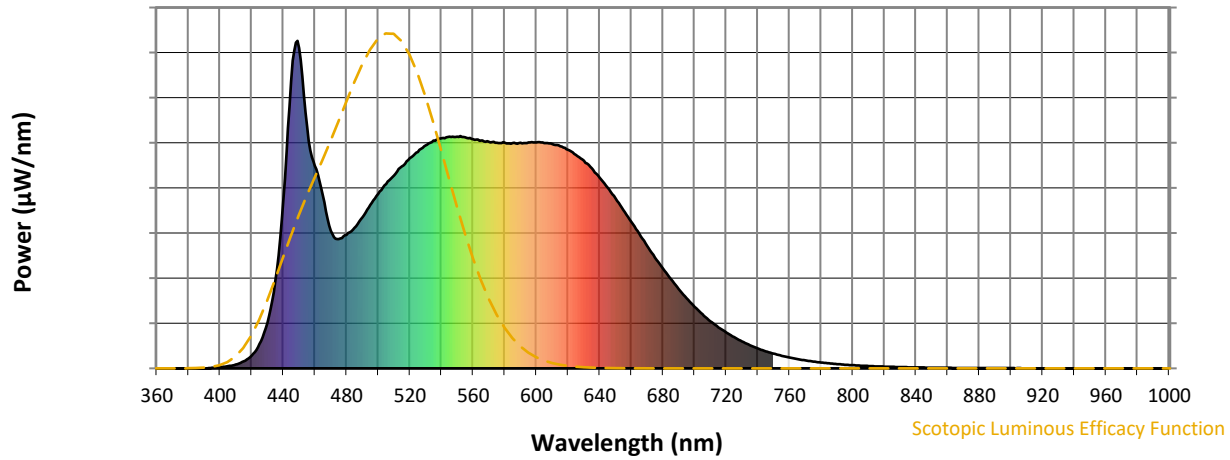


Photopic Lumens: NR

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



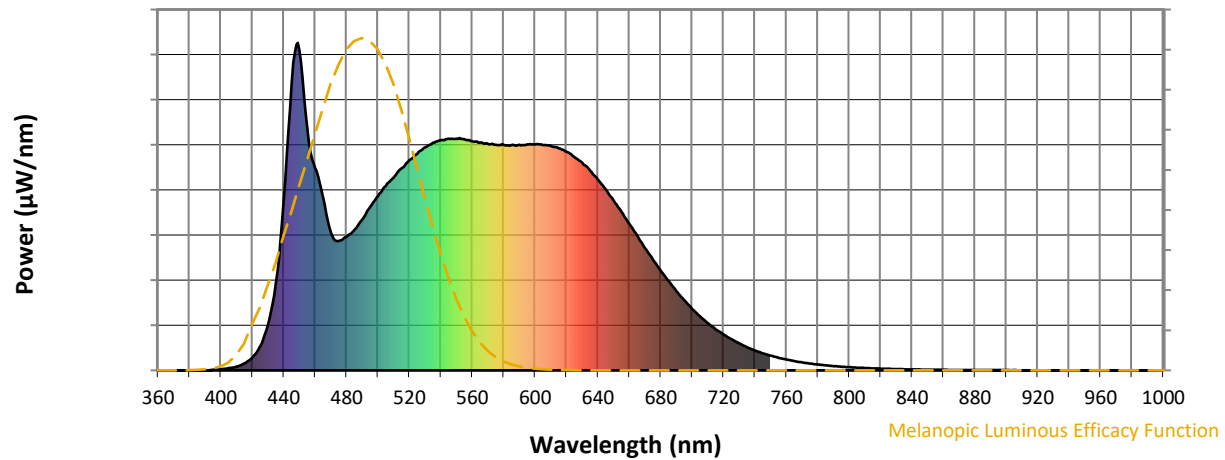
Scotopic Lumens: NR

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

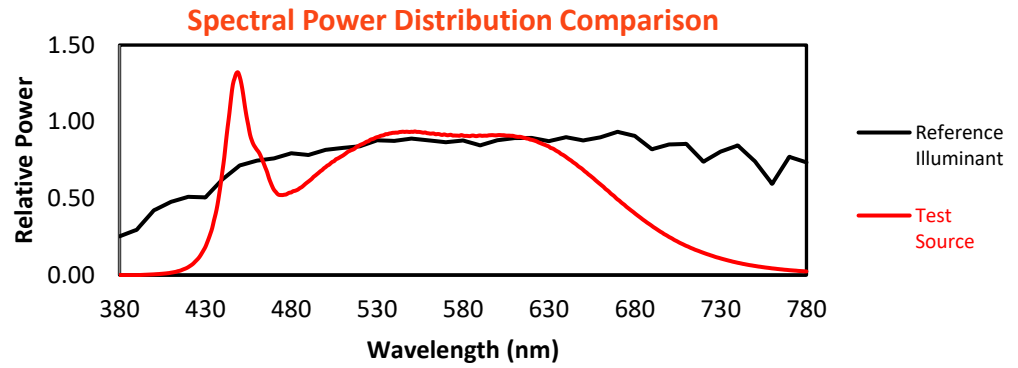
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	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			

REPORT NUMBER: SP1-2407-184-17

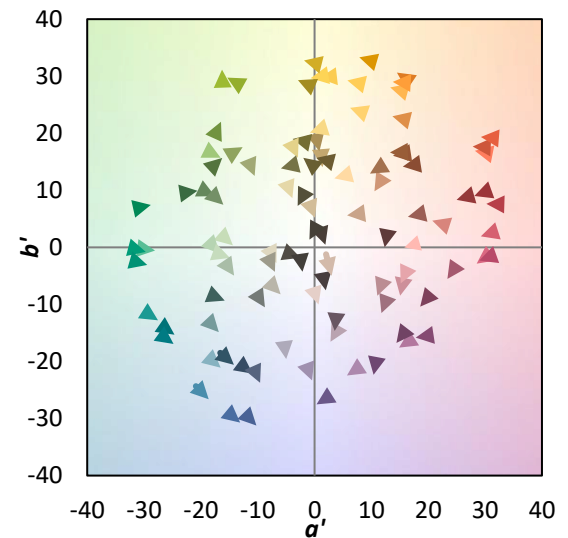
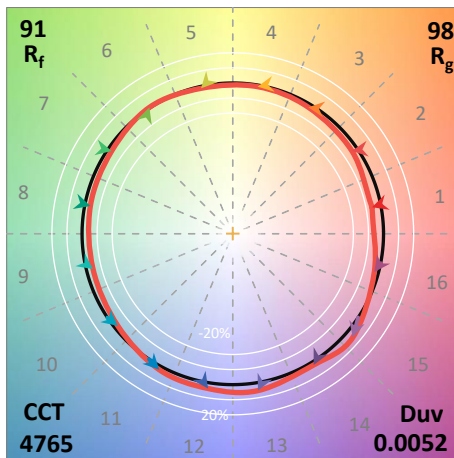
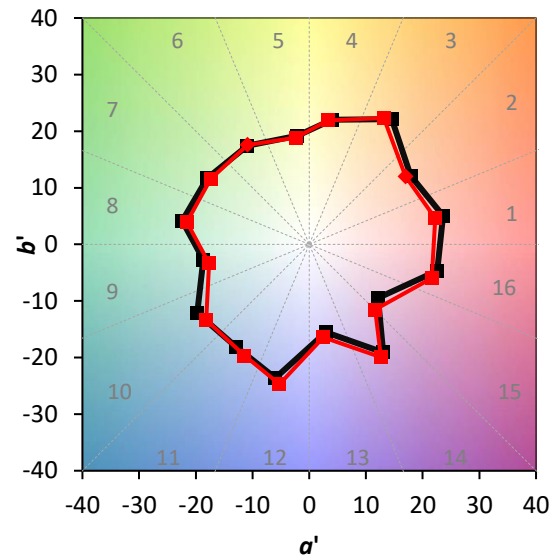
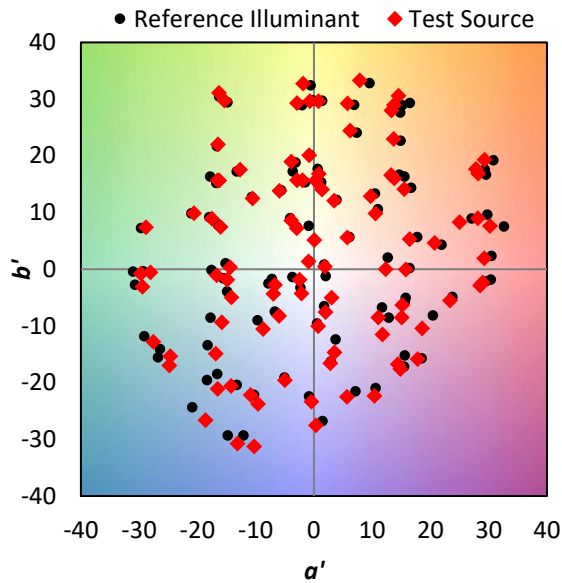
TM-30-18

Summary

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

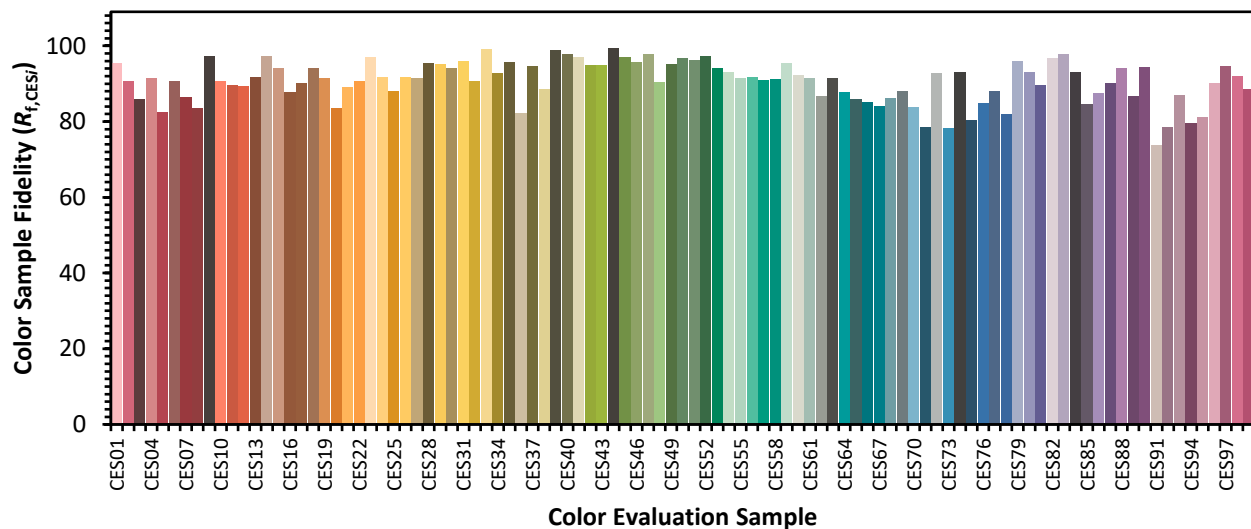


Color Vector Graphics

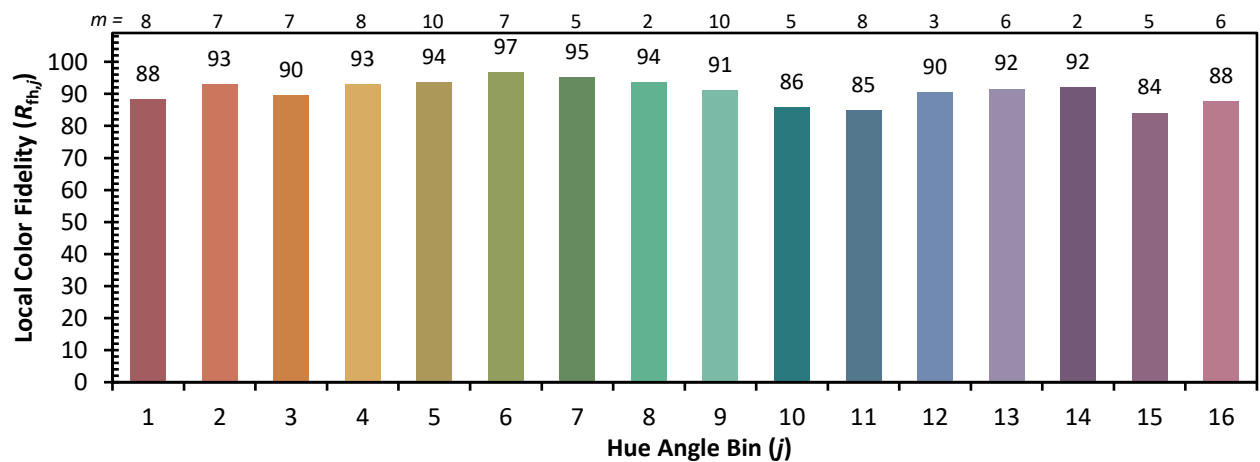
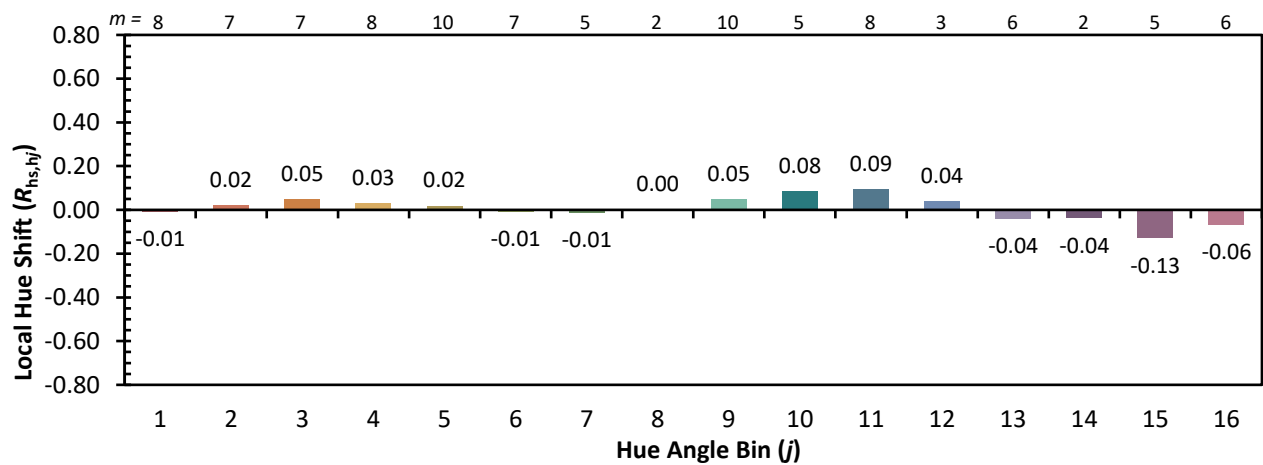
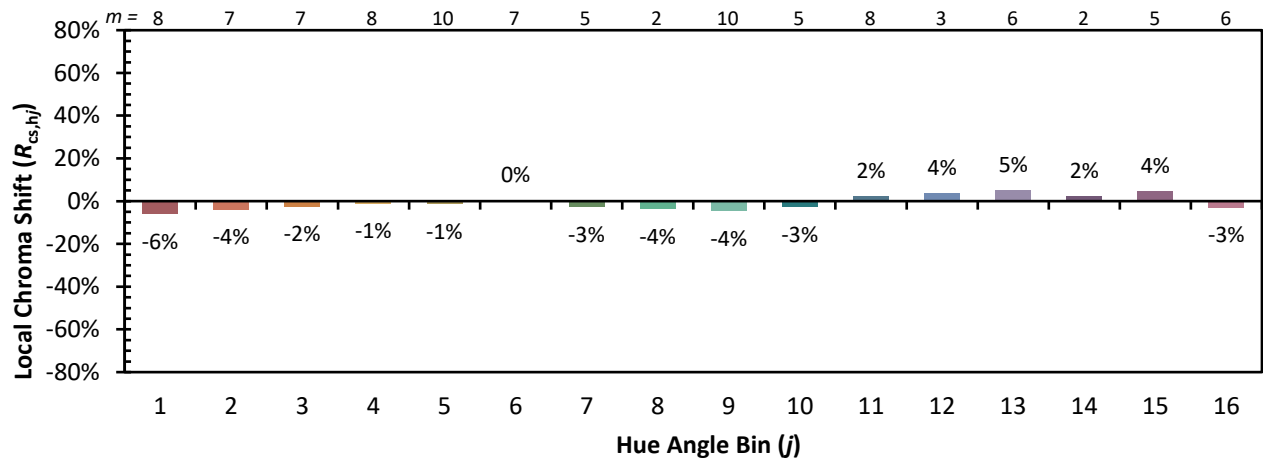


Individual Sample Fidelity Index ($R_{f,i}$)

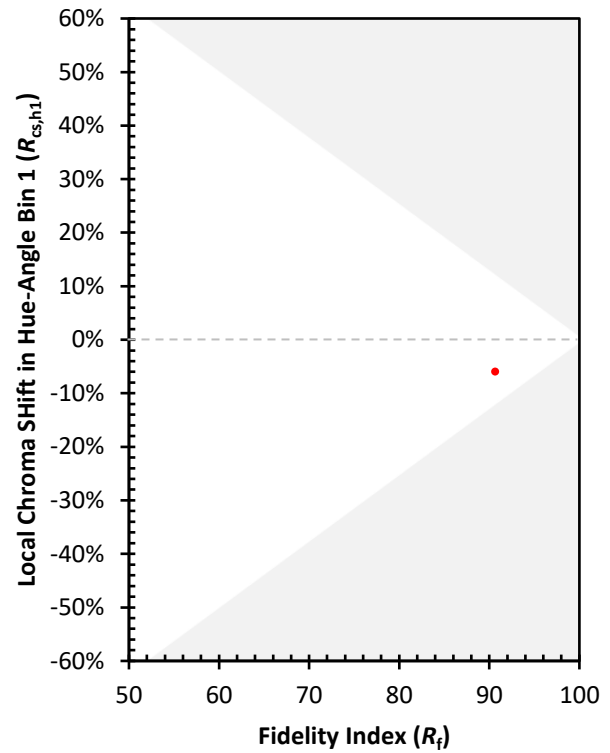
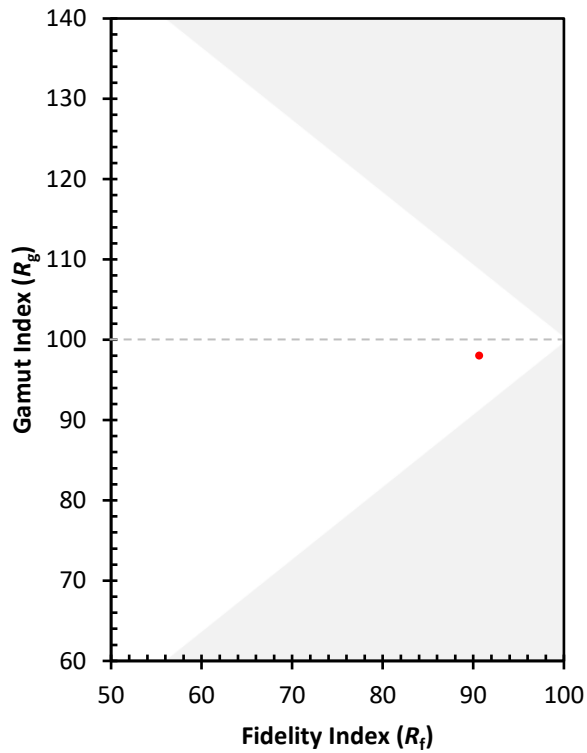
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 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)