

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: P1049709

Luminaire Tested: **GALN-SA9A-760-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049709
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-760-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 9xLight Square PACKAGE
70CRI 5700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29490.3 lumens
Efficiency: N/A
Efficacy: 120.6 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): 244.6
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

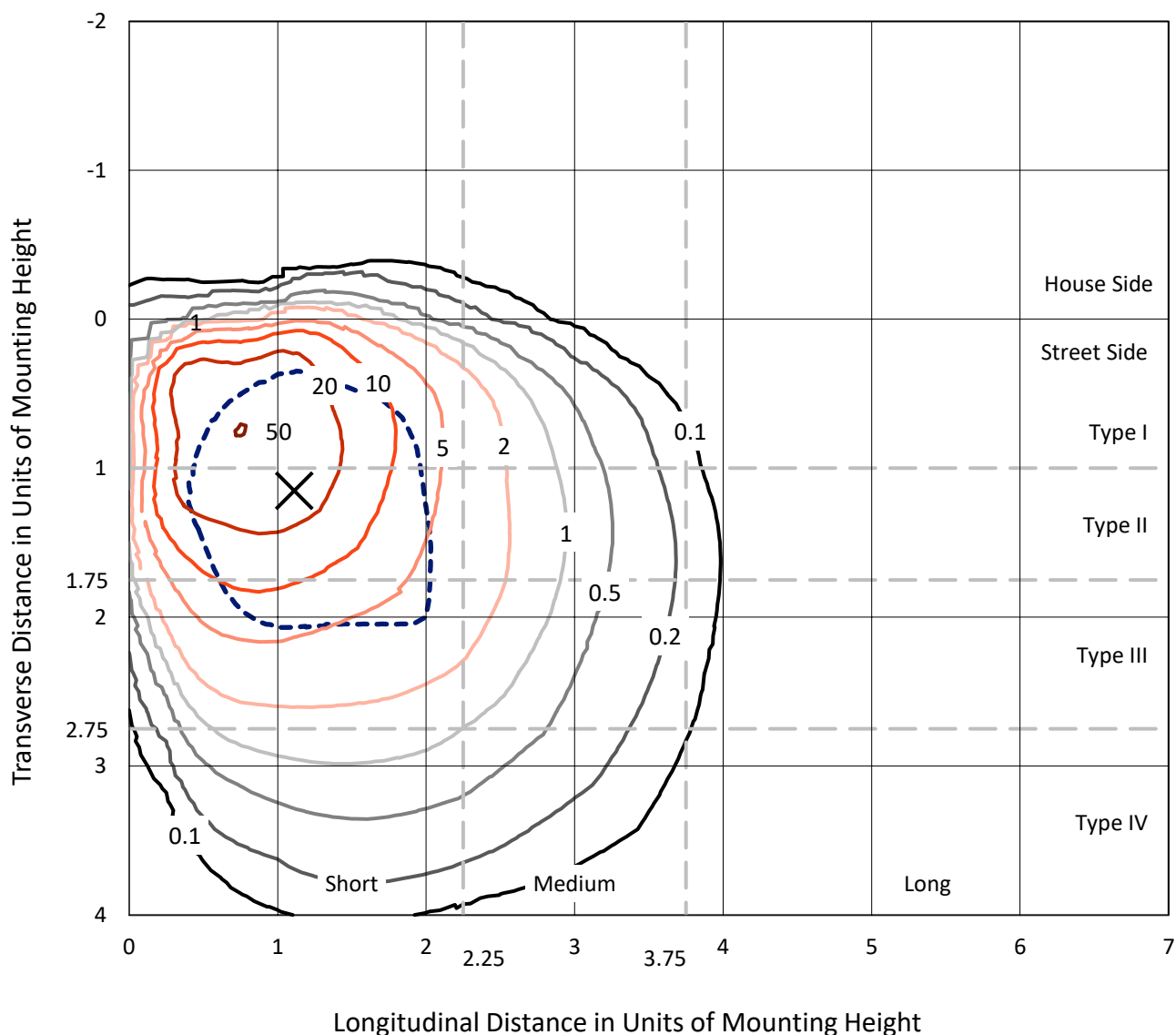
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

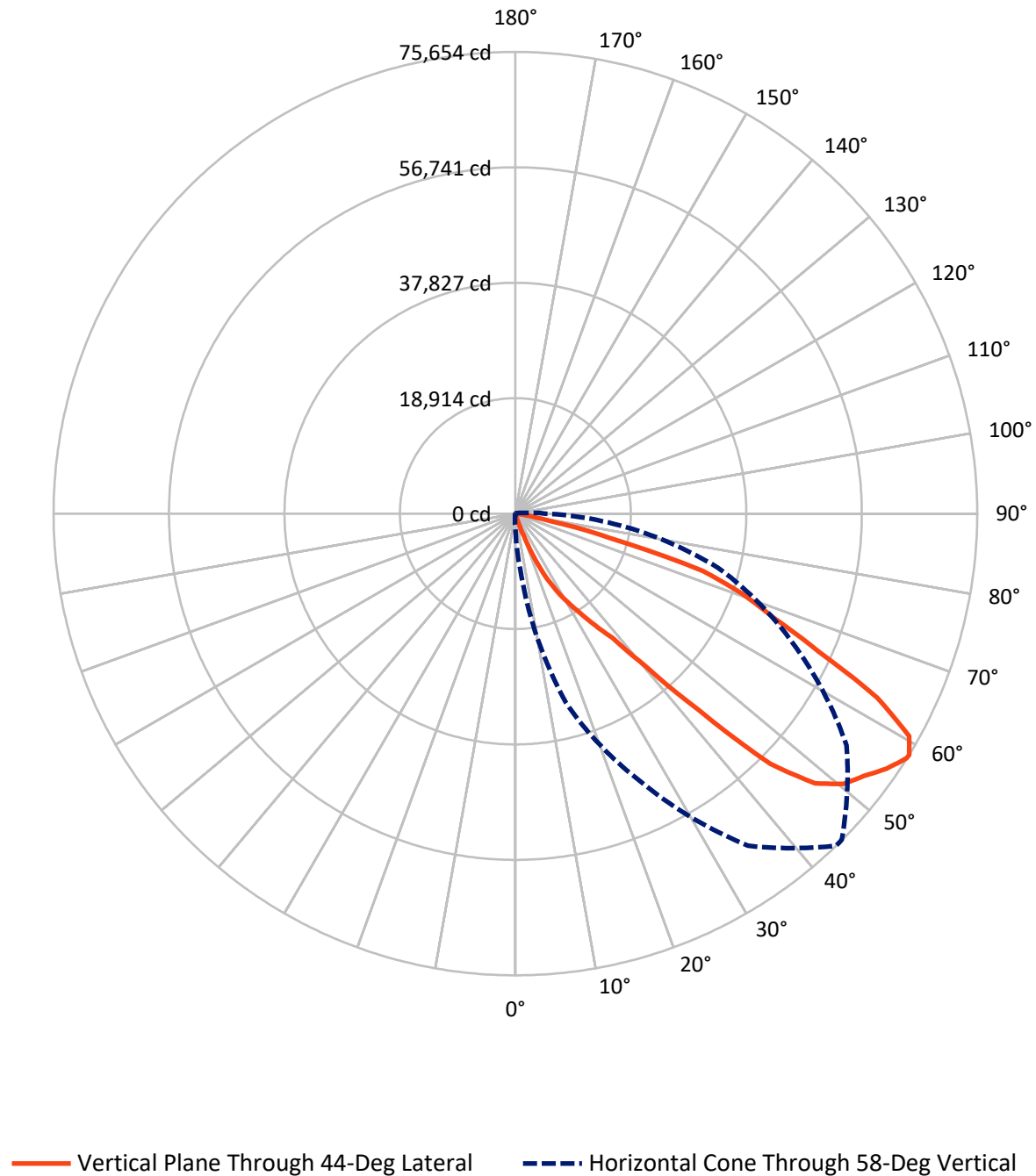


Based on 20 foot mounting height. Maximum calculated value = 51.3 fc

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	201.4	0.0	201.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	29289.0	0.0	29289.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	29490.3	0.0	29490.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.5	0.0
10°-20°	64.7	0.2
20°-30°	698.6	2.4
30°-40°	2066.1	7.0
40°-50°	6158.1	20.9
50°-60°	9771.3	33.1
60°-70°	8150.5	27.6
70°-80°	2513.7	8.5
80°-90°	55.8	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°	29490.3	100.0
0°-180°	29490.3	100.0



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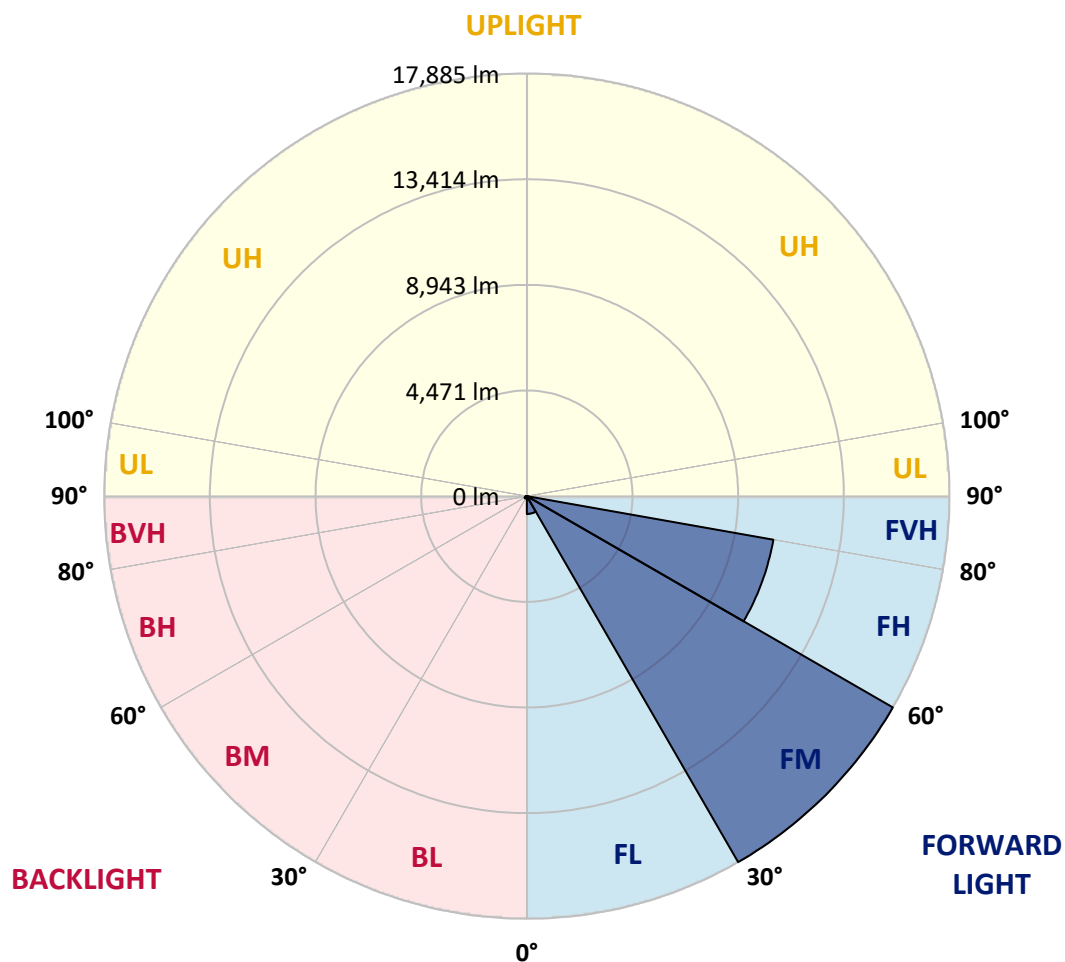
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	755.1	2.6			
FM	(30°-60°)	17885.3	60.6			
FH	(60°-80°)	10595.5	35.9			G4/12000
FVH	(80°-90°)	53.1	0.2			G1/100
BL	(0°-30°)	19.7	0.1	B0/110		
BM	(30°-60°)	110.2	0.4	B0/220		
BH	(60°-80°)	68.7	0.2	B0/110		G0/110
BVH	(80°-90°)	2.7	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°	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2
2.5°	167.1	167.1	160.4	151.5	142.6	133.7	131.4	127.0	124.8	122.5
5°	173.8	173.8	171.5	164.9	155.9	149.3	149.3	142.6	138.1	133.7
7.5°	178.2	180.4	184.9	182.7	178.2	171.5	171.5	167.1	160.4	149.3
10°	184.9	191.6	200.5	205.0	207.2	207.2	205.0	202.7	191.6	176.0
12.5°	191.6	205.0	227.2	249.5	262.9	280.7	278.5	274.0	245.1	211.6
15°	205.0	225.0	271.8	336.4	436.6	499.0	523.5	501.2	405.4	285.2
17.5°	220.5	254.0	394.3	704.0	1154.0	1367.8	1497.0	1392.3	922.3	541.3
20°	236.1	309.7	732.9	1824.5	2994.1	3693.6	3887.4	3584.4	2301.3	1031.4
22.5°	262.9	434.4	1485.9	3771.6	6451.5	7500.8	7699.1	6730.0	4346.3	2036.2
25°	318.6	630.5	2561.9	6146.3	9628.3	11399.4	11316.9	10047.1	7050.8	3252.5
27.5°	398.8	917.8	3874.0	8732.8	12671.4	14233.1	14420.2	12849.6	9398.9	4783.0
30°	514.6	1272.0	5282.0	10804.6	15110.8	16799.4	16830.6	15206.6	11499.6	6126.3
32.5°	626.0	1606.2	6513.9	12807.3	17514.5	19365.8	19503.9	17505.6	13068.0	7525.3
35°	710.7	1824.5	7761.5	14567.2	19938.3	22489.1	22480.2	20107.6	14925.9	8775.1
37.5°	717.3	2042.8	8890.9	16367.2	23008.2	25864.1	26147.0	23531.7	17171.5	10321.1
40°	701.7	2287.9	10321.1	19174.2	28539.6	32921.6	33171.1	29874.1	21676.0	12967.7
42.5°	719.6	2713.4	12642.5	24358.2	37724.6	44018.0	44499.2	41032.8	29956.5	18367.8
45°	813.1	3513.2	17505.6	33030.8	50817.1	58489.4	58329.0	53336.7	39591.5	26588.1
47.5°	1122.8	5471.3	24714.6	41471.7	59184.5	66017.0	66155.1	60053.3	45214.3	32908.2
50°	1726.5	8371.9	30771.8	45933.9	62782.3	69637.1	69507.9	62457.1	47350.7	36020.4
52.5°	2245.6	10470.4	33810.5	47500.0	63243.5	71426.0	71417.1	63089.7	47682.7	36287.7
55°	2374.8	10628.6	33835.0	47584.6	64277.1	73767.3	74061.4	64646.9	48112.6	35120.4
57.5°	2323.5	9410.0	32422.6	48074.7	66117.2	75578.5	75594.1	66155.1	49204.2	34405.3
58°	2279.0	9218.4	32137.4	48353.2	66433.6	75654.2	75616.3	66224.2	50093.1	34378.6
60°	2029.5	8004.3	31025.8	49063.9	65963.5	74099.3	73745.0	64716.0	49961.6	34104.5
62.5°	1595.1	6244.4	29932.0	48241.8	60924.4	66571.7	66718.7	57295.4	45546.2	32507.3
65°	1269.8	4653.8	27650.8	42316.0	50168.8	54668.9	55216.9	46591.1	38016.5	27526.0
67.5°	1011.4	3363.9	23195.3	33690.2	39698.4	45626.4	46025.2	39117.0	29453.0	21090.1
70°	822.0	2274.5	16010.8	24638.9	32743.4	39408.8	39433.3	32496.1	21983.4	13818.7
72.5°	728.5	1575.0	9294.2	17969.0	26550.3	32112.9	31464.7	26369.8	16895.2	8184.7
75°	630.5	1044.8	4558.0	10985.0	16097.7	16206.8	16454.1	12232.5	8445.4	3891.9
77.5°	519.1	741.8	1795.6	3000.8	4827.5	6179.8	6409.2	4856.5	2809.2	957.9
80°	356.4	352.0	483.4	920.1	1381.2	1731.0	1615.1	1249.8	735.2	367.6
82.5°	153.7	167.1	218.3	262.9	213.9	207.2	198.3	127.0	98.0	75.7
85°	49.0	44.6	46.8	46.8	37.9	29.0	29.0	13.4	0.0	0.0
87.5°	24.5	20.0	20.0	17.8	11.1	4.5	2.2	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°
129.2	0°	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2
120.3	2.5°	118.1	118.1	113.6	109.2	106.9	102.5	100.2	98.0	95.8	93.6
129.2	5°	124.8	122.5	115.8	109.2	102.5	95.8	91.3	86.9	82.4	80.2
142.6	7.5°	135.9	131.4	118.1	106.9	98.0	89.1	84.7	78.0	73.5	66.8
158.2	10°	149.3	140.3	122.5	109.2	95.8	84.7	78.0	71.3	64.6	55.7
180.4	12.5°	167.1	151.5	129.2	106.9	91.3	78.0	71.3	62.4	55.7	49.0
209.4	15°	182.7	162.6	131.4	106.9	86.9	71.3	62.4	53.5	46.8	37.9
262.9	17.5°	205.0	171.5	129.2	100.2	80.2	62.4	53.5	46.8	35.6	22.3
389.9	20°	242.8	178.2	124.8	93.6	69.1	51.2	40.1	31.2	15.6	4.5
585.9	22.5°	303.0	196.0	120.3	84.7	60.1	40.1	26.7	11.1	0.0	0.0
891.1	25°	418.8	227.2	120.3	80.2	53.5	29.0	8.9	0.0	0.0	0.0
1265.4	27.5°	556.9	269.6	120.3	69.1	42.3	15.6	0.0	0.0	0.0	0.0
1724.3	30°	697.3	316.3	120.3	60.1	33.4	2.2	0.0	0.0	0.0	0.0
2123.0	32.5°	830.9	356.4	122.5	51.2	22.3	0.0	0.0	0.0	0.0	0.0
2675.5	35°	966.8	363.1	120.3	44.6	13.4	0.0	0.0	0.0	0.0	0.0
3352.8	37.5°	1140.6	349.8	113.6	40.1	6.7	0.0	0.0	0.0	0.0	0.0
4410.9	40°	1403.5	356.4	106.9	37.9	2.2	0.0	0.0	0.0	0.0	0.0
6297.8	42.5°	1889.1	385.4	98.0	37.9	0.0	0.0	0.0	0.0	0.0	0.0
10031.5	45°	3265.9	516.8	89.1	40.1	0.0	0.0	0.0	0.0	0.0	0.0
15059.6	47.5°	5402.3	929.0	86.9	40.1	0.0	0.0	0.0	0.0	0.0	0.0
18140.5	50°	6894.9	1169.6	91.3	42.3	0.0	0.0	0.0	0.0	0.0	0.0
18525.9	52.5°	6883.7	1303.2	95.8	44.6	8.9	0.0	0.0	0.0	0.0	0.0
17075.7	55°	6119.6	1327.7	102.5	49.0	29.0	0.0	0.0	0.0	0.0	0.0
14674.2	57.5°	5114.9	1211.9	118.1	60.1	53.5	0.0	0.0	0.0	0.0	0.0
14297.7	58°	4936.7	1158.4	122.5	62.4	57.9	0.0	0.0	0.0	0.0	0.0
12401.9	60°	4045.6	944.6	155.9	78.0	78.0	0.0	0.0	0.0	0.0	0.0
10167.4	62.5°	2793.6	824.3	178.2	100.2	80.2	0.0	0.0	0.0	0.0	0.0
7496.4	65°	1976.0	744.1	193.8	106.9	64.6	0.0	0.0	0.0	0.0	0.0
5326.5	67.5°	1477.0	686.1	213.9	109.2	33.4	0.0	0.0	0.0	0.0	0.0
3341.6	70°	1131.7	643.8	262.9	115.8	8.9	0.0	0.0	0.0	0.0	0.0
1991.6	72.5°	922.3	594.8	318.6	120.3	0.0	0.0	0.0	0.0	0.0	0.0
1194.1	75°	764.1	536.9	307.4	131.4	0.0	0.0	0.0	0.0	0.0	0.0
637.1	77.5°	507.9	416.6	280.7	131.4	0.0	0.0	0.0	0.0	0.0	0.0
227.2	80°	178.2	164.9	218.3	115.8	0.0	0.0	0.0	0.0	0.0	0.0
46.8	82.5°	26.7	22.3	31.2	40.1	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°
129.2	0°	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2
91.3	2.5°	91.3	91.3	89.1	91.3	91.3	95.8	106.9	122.5	140.3	147.0
78.0	5°	75.7	73.5	71.3	71.3	71.3	78.0	86.9	104.7	124.8	133.7
64.6	7.5°	62.4	60.1	57.9	55.7	55.7	60.1	71.3	91.3	111.4	120.3
53.5	10°	51.2	46.8	44.6	42.3	42.3	46.8	57.9	78.0	100.2	109.2
44.6	12.5°	42.3	35.6	31.2	29.0	26.7	33.4	44.6	62.4	86.9	98.0
33.4	15°	29.0	22.3	15.6	13.4	11.1	17.8	29.0	49.0	73.5	86.9
17.8	17.5°	15.6	6.7	2.2	0.0	0.0	4.5	13.4	35.6	60.1	71.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	44.6	55.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	26.7	37.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	20.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
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	6.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	17.8
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°
129.2	0°	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2
153.7	2.5°	158.2	155.9	151.5	147.0	147.0	147.0	153.7	160.4	167.1	167.1
138.1	5°	147.0	147.0	144.8	140.3	140.3	142.6	151.5	162.6	171.5	173.8
127.0	7.5°	135.9	140.3	135.9	133.7	135.9	138.1	147.0	160.4	173.8	178.2
118.1	10°	129.2	131.4	131.4	129.2	129.2	133.7	142.6	160.4	178.2	184.9
106.9	12.5°	120.3	124.8	122.5	122.5	122.5	127.0	138.1	158.2	182.7	191.6
95.8	15°	111.4	118.1	118.1	115.8	115.8	118.1	133.7	155.9	189.4	205.0
82.4	17.5°	102.5	109.2	111.4	106.9	106.9	111.4	127.0	155.9	193.8	220.5
66.8	20°	84.7	95.8	102.5	95.8	95.8	100.2	115.8	147.0	196.0	236.1
49.0	22.5°	66.8	78.0	86.9	84.7	84.7	86.9	106.9	140.3	198.3	262.9
29.0	25°	49.0	60.1	66.8	71.3	71.3	78.0	98.0	135.9	207.2	318.6
13.4	27.5°	29.0	42.3	51.2	55.7	57.9	66.8	91.3	131.4	222.8	398.8
0.0	30°	13.4	24.5	35.6	44.6	44.6	60.1	84.7	127.0	242.8	514.6
0.0	32.5°	0.0	11.1	17.8	31.2	33.4	49.0	78.0	122.5	271.8	626.0
0.0	35°	0.0	0.0	8.9	24.5	24.5	40.1	71.3	118.1	316.3	710.7
0.0	37.5°	0.0	0.0	0.0	17.8	20.0	35.6	69.1	115.8	325.3	717.3
0.0	40°	0.0	0.0	0.0	13.4	15.6	33.4	69.1	118.1	294.1	701.7
0.0	42.5°	0.0	0.0	0.0	8.9	11.1	33.4	69.1	122.5	265.1	719.6
0.0	45°	0.0	0.0	0.0	6.7	8.9	35.6	66.8	120.3	249.5	813.1
0.0	47.5°	0.0	0.0	0.0	8.9	13.4	35.6	64.6	118.1	251.7	1122.8
0.0	50°	0.0	0.0	0.0	11.1	15.6	35.6	66.8	113.6	276.2	1726.5
0.0	52.5°	0.0	0.0	0.0	8.9	13.4	40.1	73.5	111.4	300.7	2245.6
0.0	55°	0.0	0.0	0.0	2.2	6.7	51.2	80.2	111.4	338.6	2374.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	57.9	91.3	118.1	401.0	2323.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	57.9	93.6	118.1	405.4	2279.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	57.9	102.5	131.4	436.6	2029.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	49.0	122.5	164.9	454.5	1595.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	40.1	144.8	180.4	467.8	1269.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	37.9	149.3	182.7	474.5	1011.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	40.1	147.0	196.0	496.8	822.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	44.6	133.7	216.1	496.8	728.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	46.8	124.8	242.8	452.2	630.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	44.6	122.5	282.9	403.2	519.1
0.0	80°	4.5	6.7	6.7	4.5	4.5	37.9	120.3	287.4	343.1	356.4
2.2	82.5°	13.4	17.8	15.6	11.1	11.1	33.4	106.9	240.6	178.2	153.7
13.4	85°	24.5	29.0	29.0	24.5	24.5	31.2	66.8	86.9	60.1	49.0
24.5	87.5°	33.4	37.9	37.9	33.4	33.4	31.2	29.0	26.7	24.5	24.5
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: SP1-2407-184-7

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-757-U-5WQ

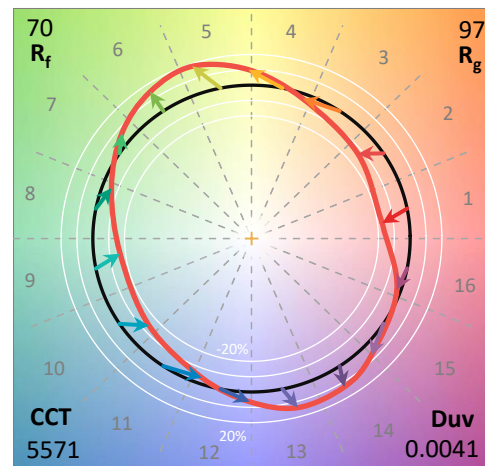
Data in this report applies to families of products including GSS-SB1A-757-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-7
 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-757-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5700K CCT 26 LEDS

Spectral Parameters

CCT (K):	5571	CRI (Ra):	69.9		
CIE u':	0.2033	R1:	68.8	R9:	-35.4
CIE v':	0.4806	R2:	72.5	R10:	36.7
Duv:	0.0041	R3:	76.8	R11:	73.9
CIE x:	0.3308	R4:	72.0	R12:	47.8
CIE y:	0.3476	R5:	70.9	R13:	68.0
CIE z:	0.3216	R6:	65.6	R14:	87.0
Peak Wavelength (nm):	442	R7:	75.5	R15:	59.8
Dominant Wavelength (nm):	544	R8:	56.8		
Purity:	3.635698				
Rf:	70.4				
Rg:	97.1				



Test Conditions

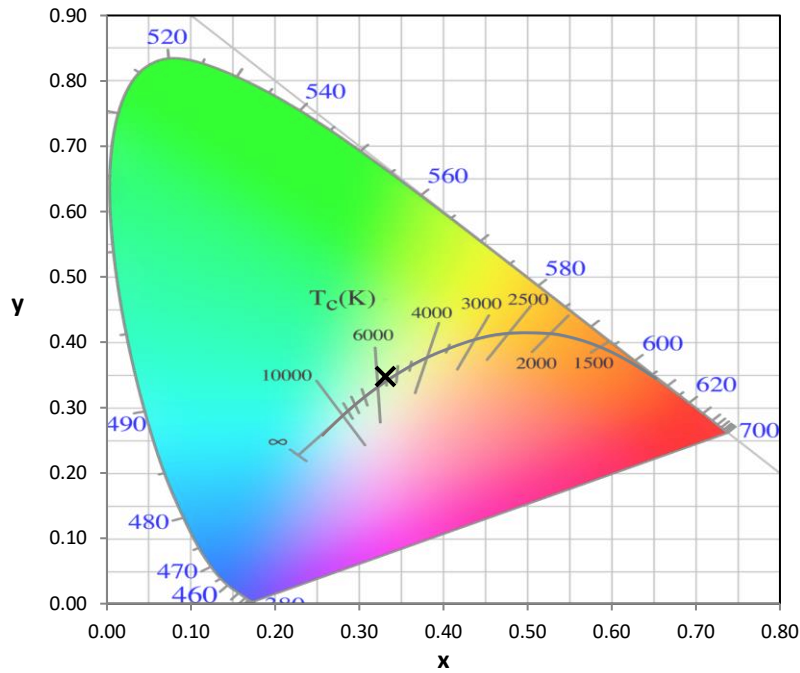
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-7

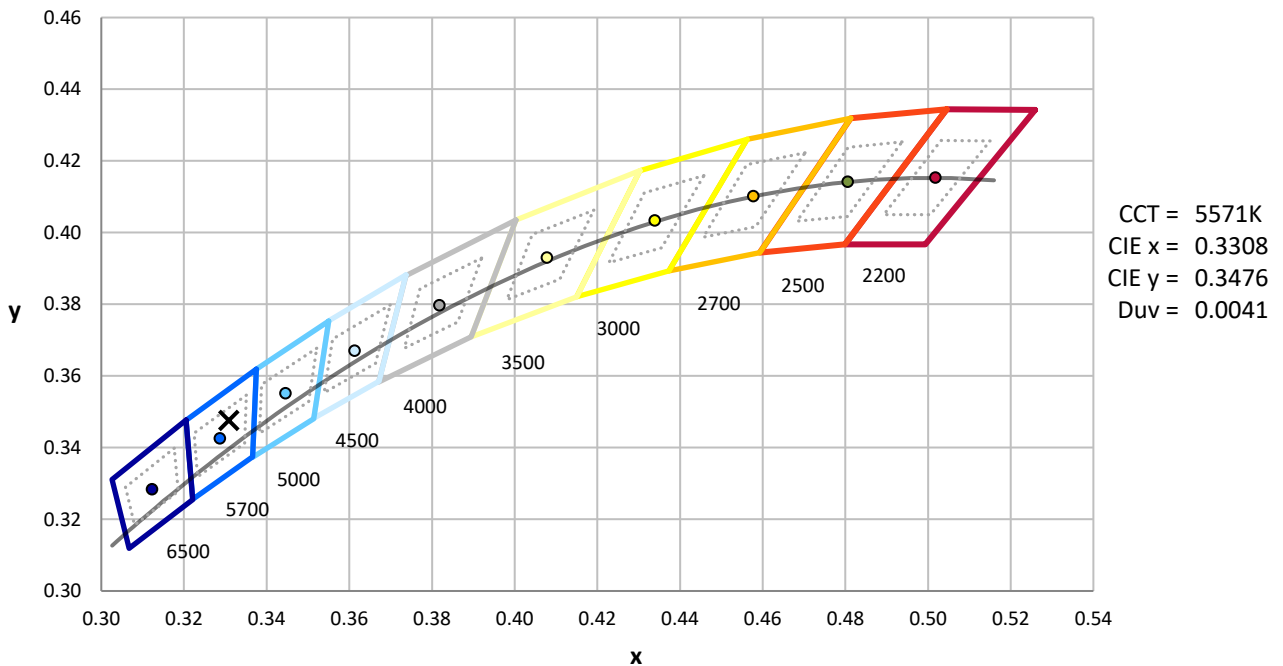
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



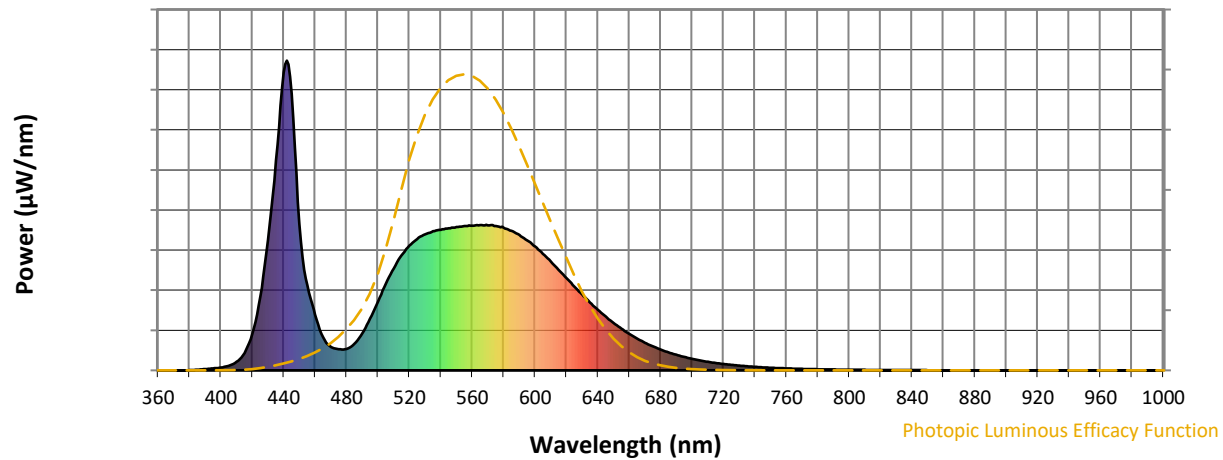
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-7

Photopic Flux vs. Wavelength

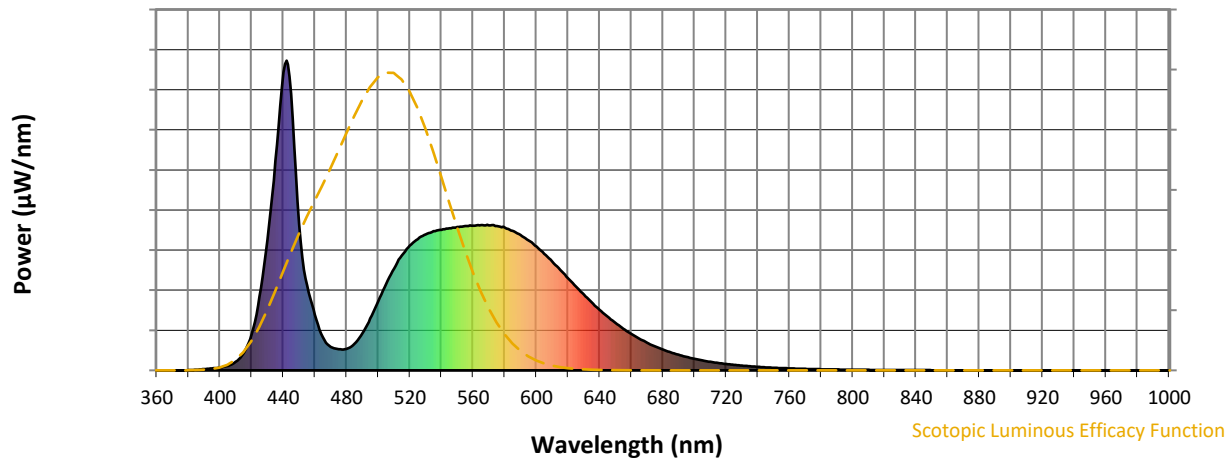


Photopic Lumens: NR

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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-7

Scotopic Flux vs. Wavelength



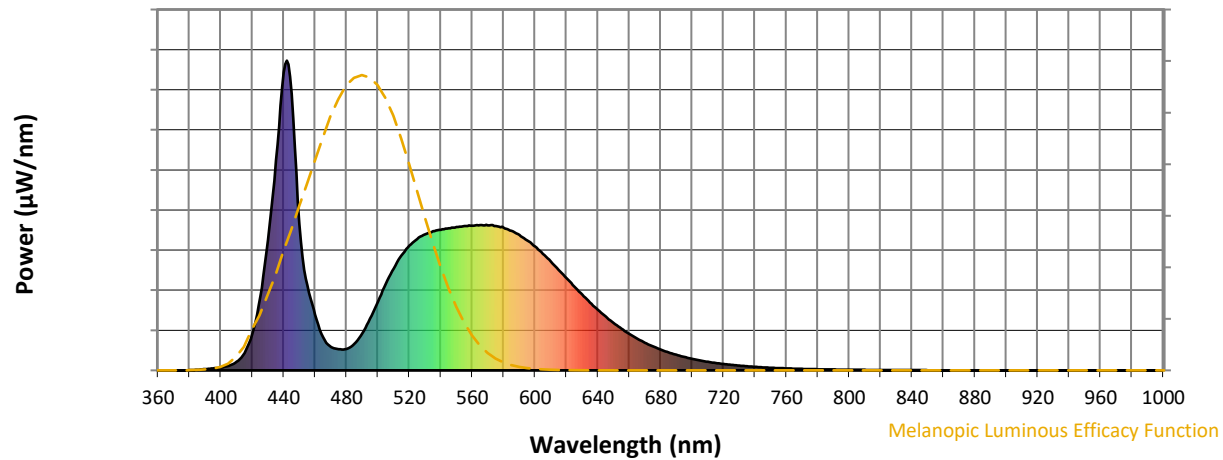
Scotopic Lumens: NR

S/P: 1.84

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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.71

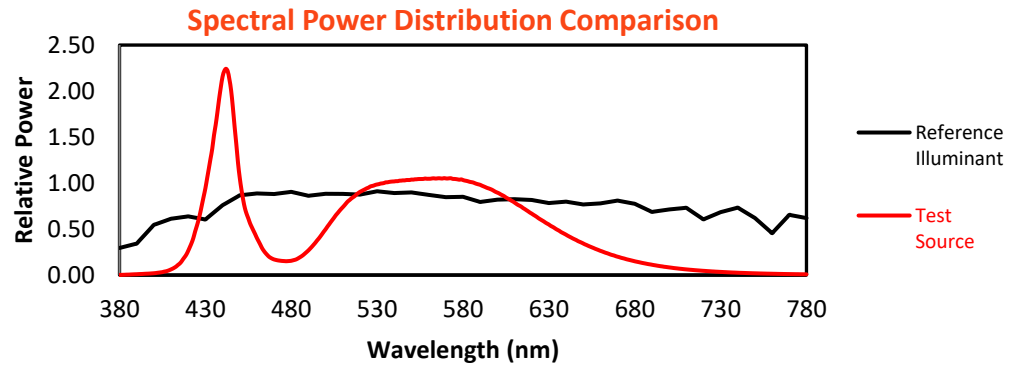
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

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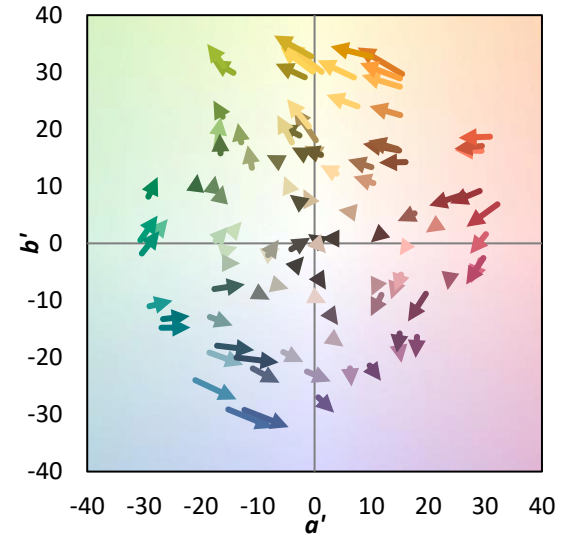
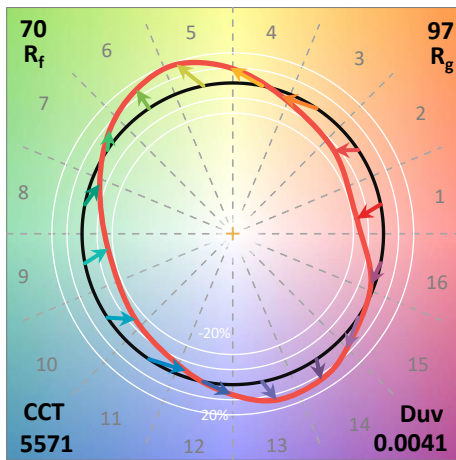
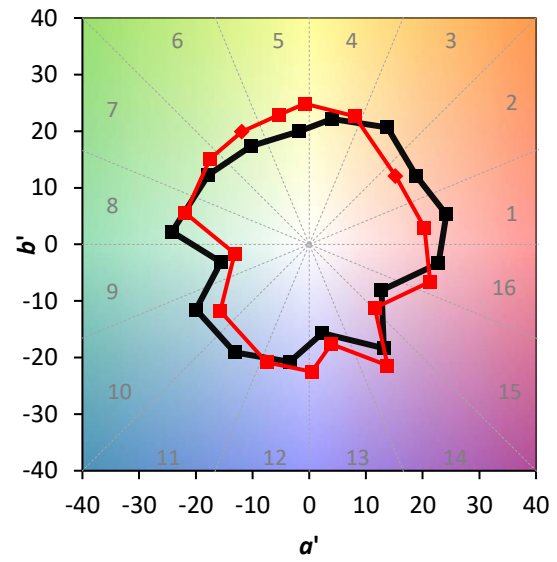
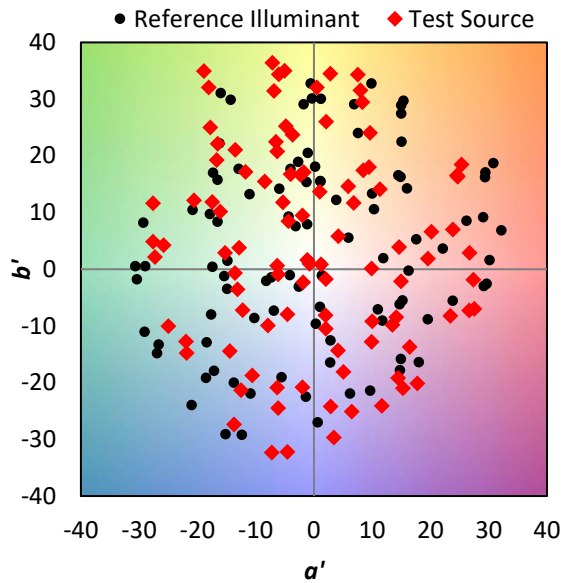
TM-30-18

Summary

$R_f = 70.4$
 $R_g = 97.1$
 $CIE\ R_a = 69.9$
 $R_g = -35.4$

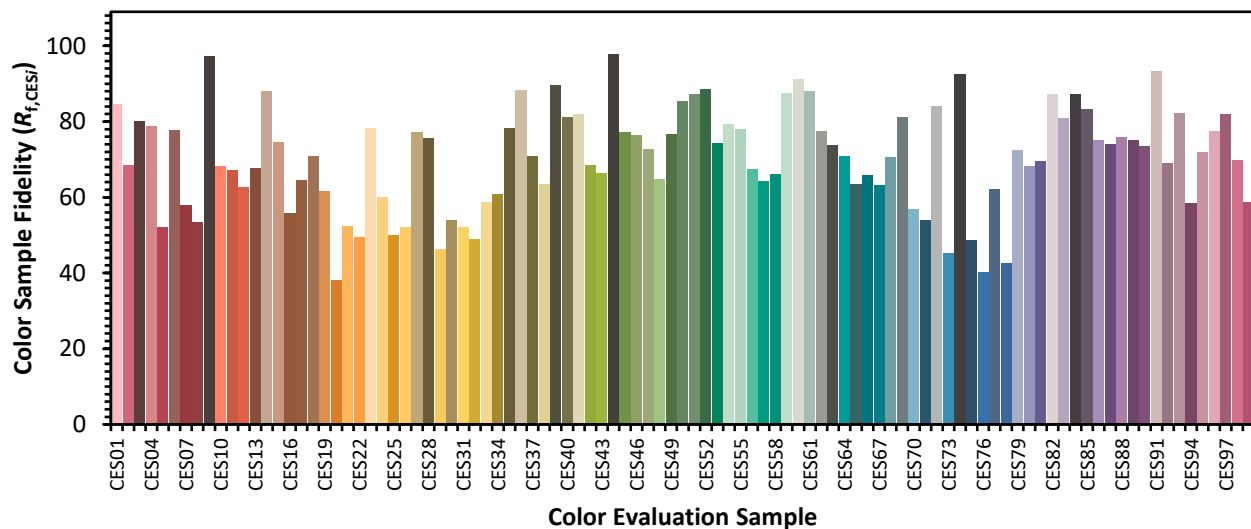


Color Vector Graphics

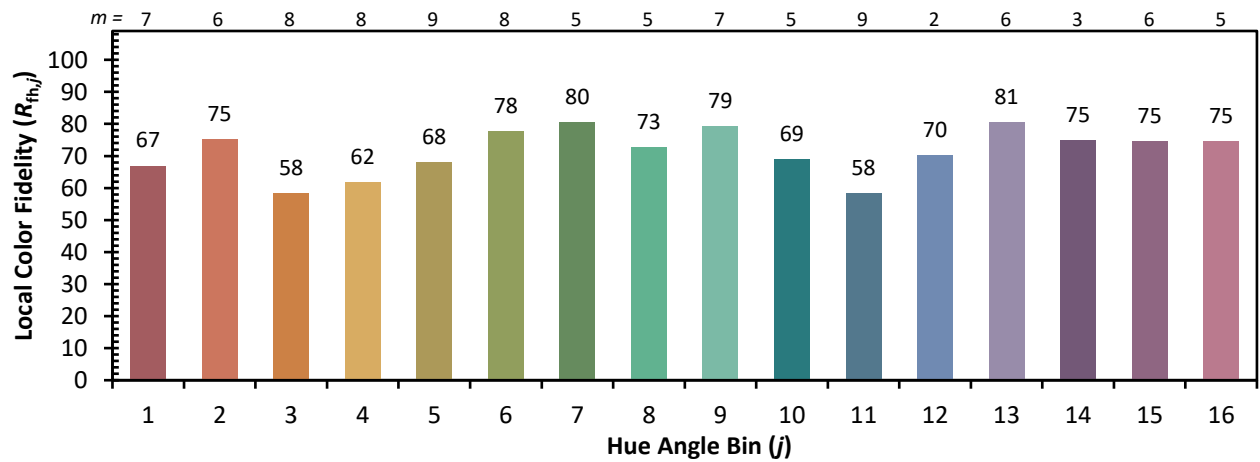
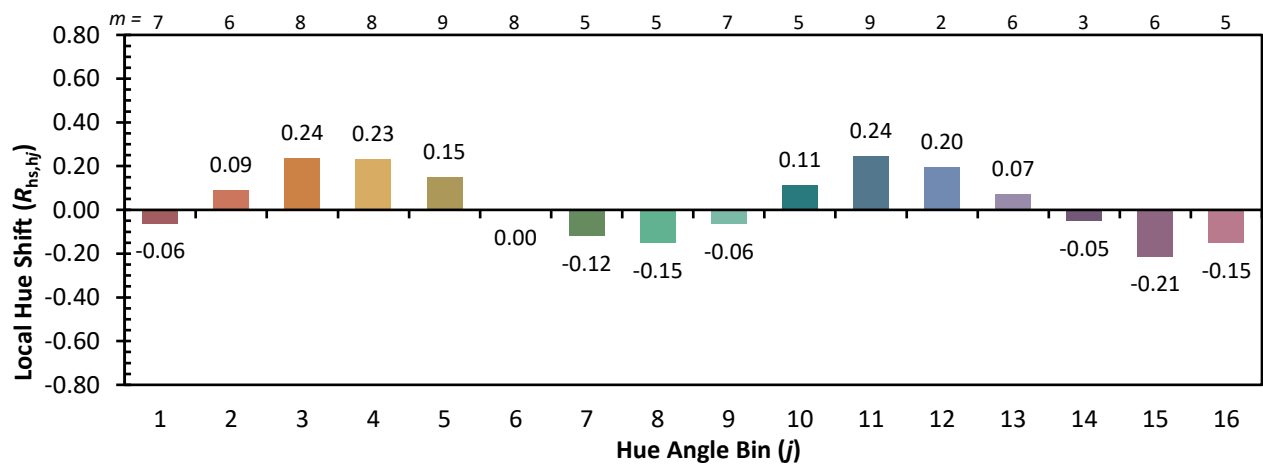
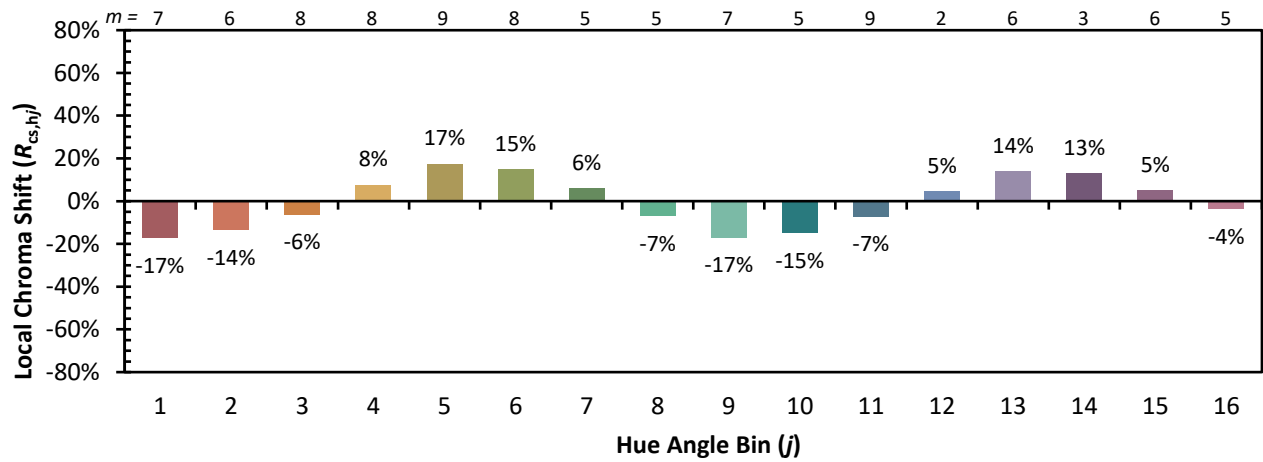


Individual Sample Fidelity Index ($R_{f,i}$)

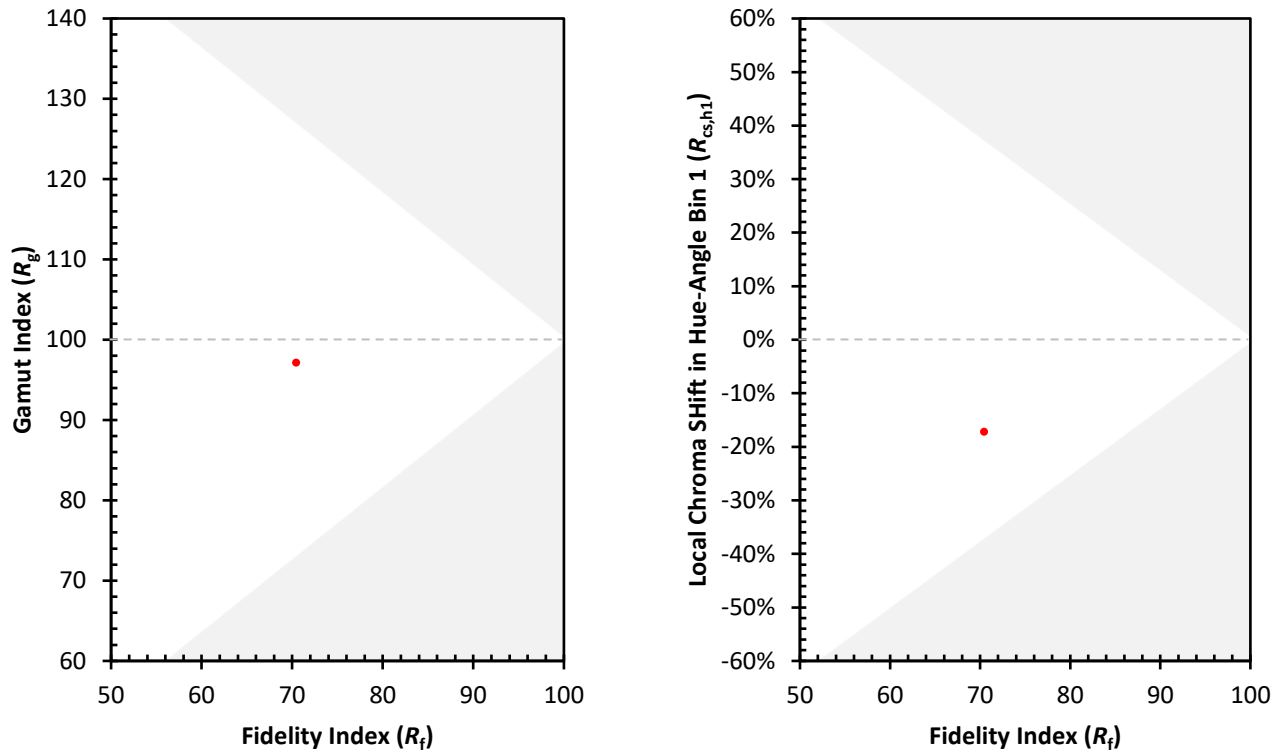
CES01 = 85	CES26 = 52	CES51 = 87	CES76 = 40
CES02 = 59	CES27 = 77	CES52 = 88	CES77 = 62
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 43
CES04 = 68	CES29 = 46	CES54 = 79	CES79 = 72
CES05 = 45	CES30 = 54	CES55 = 78	CES80 = 68
CES06 = 49	CES31 = 52	CES56 = 67	CES81 = 70
CES07 = 38	CES32 = 49	CES57 = 64	CES82 = 87
CES08 = 37	CES33 = 59	CES58 = 66	CES83 = 81
CES09 = 29	CES34 = 61	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 78	CES60 = 91	CES85 = 83
CES11 = 55	CES36 = 88	CES61 = 88	CES86 = 75
CES12 = 61	CES37 = 71	CES62 = 77	CES87 = 74
CES13 = 41	CES38 = 64	CES63 = 74	CES88 = 76
CES14 = 74	CES39 = 90	CES64 = 71	CES89 = 75
CES15 = 70	CES40 = 81	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 82	CES66 = 66	CES91 = 93
CES17 = 48	CES42 = 69	CES67 = 63	CES92 = 69
CES18 = 55	CES43 = 67	CES68 = 71	CES93 = 82
CES19 = 70	CES44 = 98	CES69 = 81	CES94 = 58
CES20 = 63	CES45 = 77	CES70 = 57	CES95 = 72
CES21 = 85	CES46 = 76	CES71 = 54	CES96 = 78
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 45	CES98 = 70
CES24 = 90	CES49 = 77	CES74 = 92	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)