

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: P1049790

Luminaire Tested: **GALN-SA2B-835-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049790
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 2xLight Square PACKAGE
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7505.9 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

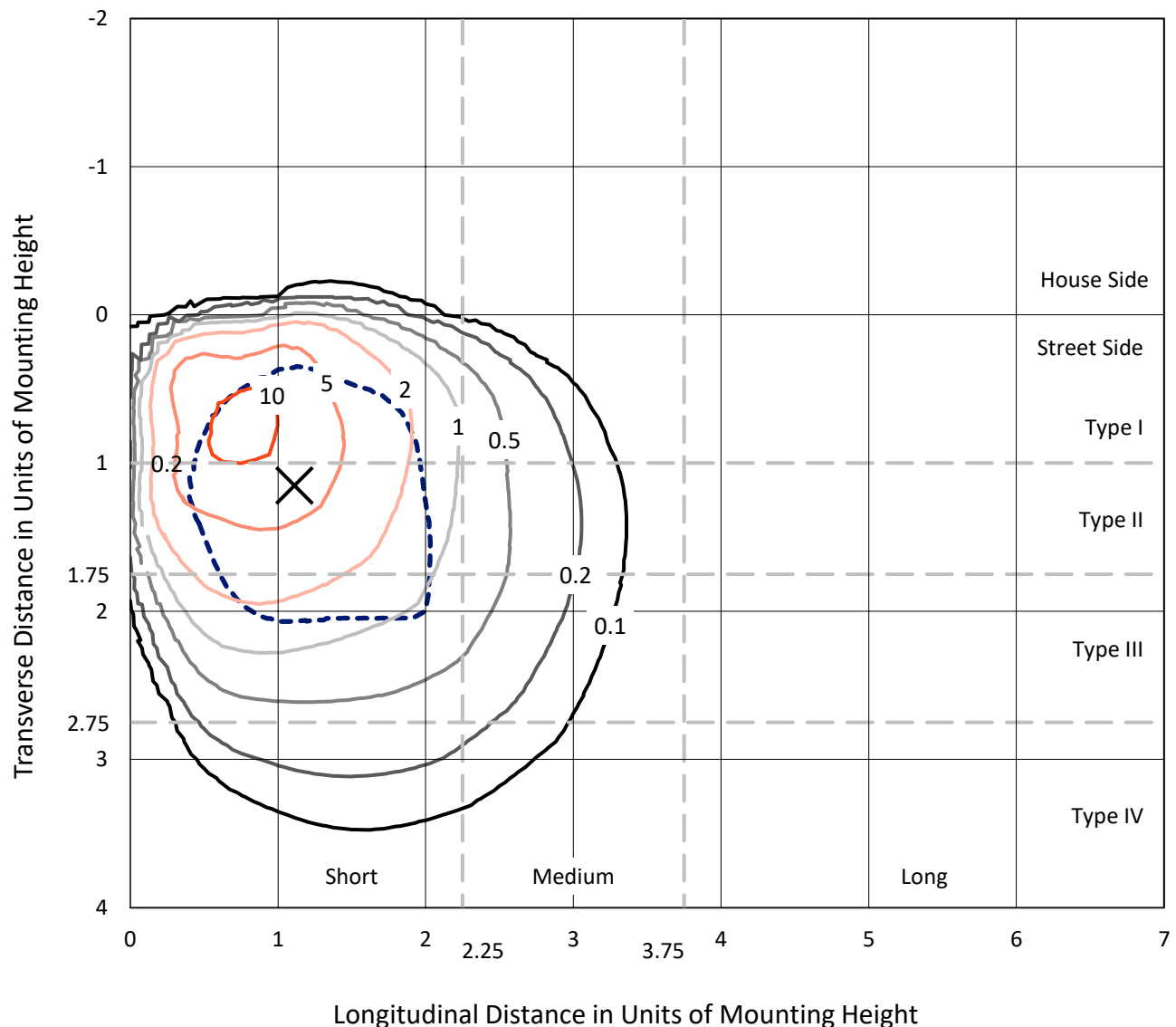
Input Watts (W): 72.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

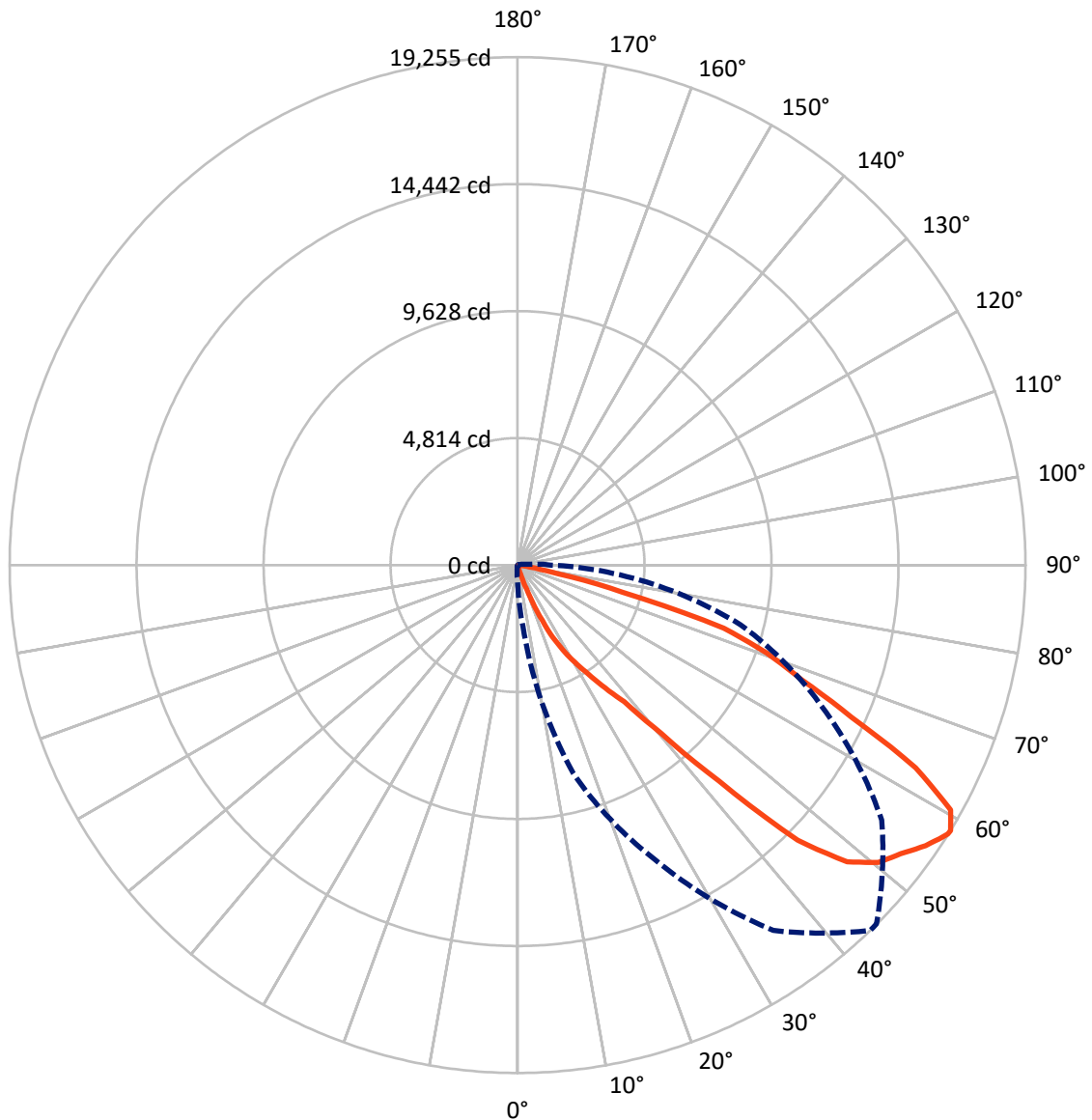
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.1 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	51.2	0.0	51.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	7454.6	0.0	7454.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	7505.9	0.0	7505.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.0
10°-20°	16.5	0.2
20°-30°	177.8	2.4
30°-40°	525.9	7.0
40°-50°	1567.3	20.9
50°-60°	2487.0	33.1
60°-70°	2074.4	27.6
70°-80°	639.8	8.5
80°-90°	14.2	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°	7505.9	100.0
0°-180°	7505.9	100.0



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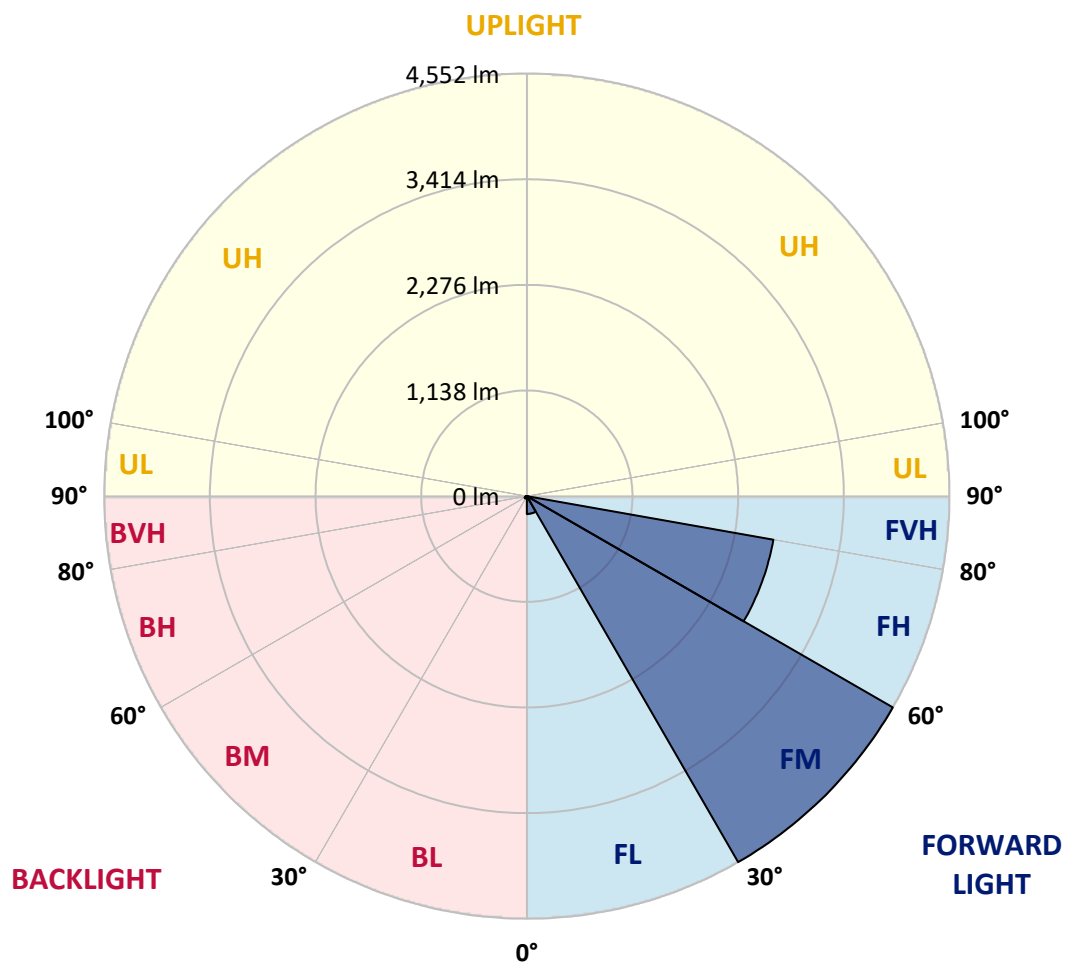
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	192.2	2.6			
FM	(30°-60°)	4552.1	60.6			
FH	(60°-80°)	2696.7	35.9			G2/5000
FVH	(80°-90°)	13.5	0.2			G1/100
BL	(0°-30°)	5.0	0.1	B0/110		
BM	(30°-60°)	28.0	0.4	B0/220		
BH	(60°-80°)	17.5	0.2	B0/110		G0/110
BVH	(80°-90°)	0.7	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
2.5°	42.5	42.5	40.8	38.6	36.3	34.0	33.5	32.3	31.8	31.2
5°	44.2	44.2	43.7	42.0	39.7	38.0	38.0	36.3	35.2	34.0
7.5°	45.4	45.9	47.1	46.5	45.4	43.7	43.7	42.5	40.8	38.0
10°	47.1	48.8	51.0	52.2	52.7	52.7	52.2	51.6	48.8	44.8
12.5°	48.8	52.2	57.8	63.5	66.9	71.4	70.9	69.7	62.4	53.9
15°	52.2	57.3	69.2	85.6	111.1	127.0	133.2	127.6	103.2	72.6
17.5°	56.1	64.6	100.4	179.2	293.7	348.1	381.0	354.4	234.7	137.8
20°	60.1	78.8	186.5	464.4	762.1	940.1	989.4	912.3	585.7	262.5
22.5°	66.9	110.6	378.2	959.9	1642.0	1909.1	1959.6	1712.9	1106.2	518.2
25°	81.1	160.5	652.1	1564.4	2450.6	2901.4	2880.4	2557.2	1794.6	827.8
27.5°	101.5	233.6	986.0	2222.7	3225.1	3622.6	3670.2	3270.5	2392.2	1217.4
30°	131.0	323.8	1344.4	2750.0	3846.0	4275.8	4283.7	3870.4	2926.9	1559.3
32.5°	159.3	408.8	1657.9	3259.7	4457.8	4929.0	4964.1	4455.5	3326.0	1915.3
35°	180.9	464.4	1975.4	3707.6	5074.7	5723.9	5721.6	5117.8	3798.9	2233.4
37.5°	182.6	519.9	2262.9	4165.8	5856.0	6582.9	6654.9	5989.3	4370.5	2626.9
40°	178.6	582.3	2626.9	4880.2	7263.9	8379.2	8442.7	7603.5	5516.9	3300.5
42.5°	183.1	690.6	3217.7	6199.6	9601.6	11203.4	11325.9	10443.6	7624.5	4674.9
45°	207.0	894.2	4455.5	8407.0	12933.9	14886.7	14845.9	13575.2	10076.8	6767.2
47.5°	285.8	1392.6	6290.3	10555.3	15063.6	16802.6	16837.7	15284.7	11507.9	8375.8
50°	439.4	2130.8	7832.0	11691.1	15979.3	17724.0	17691.1	15896.5	12051.7	9167.9
52.5°	571.5	2664.9	8605.4	12089.7	16096.7	18179.3	18177.0	16057.5	12136.1	9235.9
55°	604.4	2705.2	8611.7	12111.2	16359.8	18775.2	18850.0	16453.9	12245.6	8938.8
57.5°	591.4	2395.0	8252.2	12235.9	16828.1	19236.2	19240.1	16837.7	12523.4	8756.8
58°	580.0	2346.3	8179.6	12306.8	16908.6	19255.4	19245.8	16855.3	12749.6	8750.0
60°	516.5	2037.2	7896.7	12487.7	16789.0	18859.7	18769.5	16471.5	12716.2	8680.3
62.5°	406.0	1589.3	7618.3	12278.5	15506.4	16943.8	16981.2	14582.8	11592.4	8273.7
65°	323.2	1184.5	7037.7	10770.2	12768.9	13914.3	14053.8	11858.3	9675.9	7005.9
67.5°	257.4	856.2	5903.6	8574.8	10104.0	11612.8	11714.3	9956.0	7496.4	5367.8
70°	209.2	578.9	4075.1	6271.1	8333.8	10030.3	10036.5	8270.9	5595.2	3517.1
72.5°	185.4	400.9	2365.5	4573.5	6757.6	8173.4	8008.4	6711.6	4300.2	2083.2
75°	160.5	265.9	1160.1	2795.9	4097.2	4125.0	4187.9	3113.4	2149.5	990.6
77.5°	132.1	188.8	457.0	763.8	1228.7	1572.9	1631.3	1236.1	715.0	243.8
80°	90.7	89.6	123.0	234.2	351.5	440.6	411.1	318.1	187.1	93.6
82.5°	39.1	42.5	55.6	66.9	54.4	52.7	50.5	32.3	24.9	19.3
85°	12.5	11.3	11.9	11.9	9.6	7.4	7.4	3.4	0.0	0.0
87.5°	6.2	5.1	5.1	4.5	2.8	1.1	0.6	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°
32.9	0°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
30.6	2.5°	30.1	30.1	28.9	27.8	27.2	26.1	25.5	24.9	24.4	23.8
32.9	5°	31.8	31.2	29.5	27.8	26.1	24.4	23.2	22.1	21.0	20.4
36.3	7.5°	34.6	33.5	30.1	27.2	24.9	22.7	21.5	19.8	18.7	17.0
40.3	10°	38.0	35.7	31.2	27.8	24.4	21.5	19.8	18.1	16.4	14.2
45.9	12.5°	42.5	38.6	32.9	27.2	23.2	19.8	18.1	15.9	14.2	12.5
53.3	15°	46.5	41.4	33.5	27.2	22.1	18.1	15.9	13.6	11.9	9.6
66.9	17.5°	52.2	43.7	32.9	25.5	20.4	15.9	13.6	11.9	9.1	5.7
99.2	20°	61.8	45.4	31.8	23.8	17.6	13.0	10.2	7.9	4.0	1.1
149.1	22.5°	77.1	49.9	30.6	21.5	15.3	10.2	6.8	2.8	0.0	0.0
226.8	25°	106.6	57.8	30.6	20.4	13.6	7.4	2.3	0.0	0.0	0.0
322.1	27.5°	141.8	68.6	30.6	17.6	10.8	4.0	0.0	0.0	0.0	0.0
438.9	30°	177.5	80.5	30.6	15.3	8.5	0.6	0.0	0.0	0.0	0.0
540.4	32.5°	211.5	90.7	31.2	13.0	5.7	0.0	0.0	0.0	0.0	0.0
681.0	35°	246.1	92.4	30.6	11.3	3.4	0.0	0.0	0.0	0.0	0.0
853.3	37.5°	290.3	89.0	28.9	10.2	1.7	0.0	0.0	0.0	0.0	0.0
1122.7	40°	357.2	90.7	27.2	9.6	0.6	0.0	0.0	0.0	0.0	0.0
1602.9	42.5°	480.8	98.1	24.9	9.6	0.0	0.0	0.0	0.0	0.0	0.0
2553.2	45°	831.2	131.5	22.7	10.2	0.0	0.0	0.0	0.0	0.0	0.0
3832.9	47.5°	1375.0	236.4	22.1	10.2	0.0	0.0	0.0	0.0	0.0	0.0
4617.1	50°	1754.9	297.7	23.2	10.8	0.0	0.0	0.0	0.0	0.0	0.0
4715.2	52.5°	1752.0	331.7	24.4	11.3	2.3	0.0	0.0	0.0	0.0	0.0
4346.1	55°	1557.6	337.9	26.1	12.5	7.4	0.0	0.0	0.0	0.0	0.0
3734.9	57.5°	1301.8	308.5	30.1	15.3	13.6	0.0	0.0	0.0	0.0	0.0
3639.0	58°	1256.5	294.8	31.2	15.9	14.7	0.0	0.0	0.0	0.0	0.0
3156.5	60°	1029.7	240.4	39.7	19.8	19.8	0.0	0.0	0.0	0.0	0.0
2587.8	62.5°	711.0	209.8	45.4	25.5	20.4	0.0	0.0	0.0	0.0	0.0
1908.0	65°	502.9	189.4	49.3	27.2	16.4	0.0	0.0	0.0	0.0	0.0
1355.7	67.5°	375.9	174.6	54.4	27.8	8.5	0.0	0.0	0.0	0.0	0.0
850.5	70°	288.0	163.9	66.9	29.5	2.3	0.0	0.0	0.0	0.0	0.0
506.9	72.5°	234.7	151.4	81.1	30.6	0.0	0.0	0.0	0.0	0.0	0.0
303.9	75°	194.5	136.6	78.2	33.5	0.0	0.0	0.0	0.0	0.0	0.0
162.2	77.5°	129.3	106.0	71.4	33.5	0.0	0.0	0.0	0.0	0.0	0.0
57.8	80°	45.4	42.0	55.6	29.5	0.0	0.0	0.0	0.0	0.0	0.0
11.9	82.5°	6.8	5.7	7.9	10.2	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°
32.9	0°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
23.2	2.5°	23.2	23.2	22.7	23.2	23.2	24.4	27.2	31.2	35.7	37.4
19.8	5°	19.3	18.7	18.1	18.1	18.1	19.8	22.1	26.6	31.8	34.0
16.4	7.5°	15.9	15.3	14.7	14.2	14.2	15.3	18.1	23.2	28.4	30.6
13.6	10°	13.0	11.9	11.3	10.8	10.8	11.9	14.7	19.8	25.5	27.8
11.3	12.5°	10.8	9.1	7.9	7.4	6.8	8.5	11.3	15.9	22.1	24.9
8.5	15°	7.4	5.7	4.0	3.4	2.8	4.5	7.4	12.5	18.7	22.1
4.5	17.5°	4.0	1.7	0.6	0.0	0.0	1.1	3.4	9.1	15.3	18.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	11.3	14.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	6.8	9.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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	1.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.5
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°
32.9	0°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
39.1	2.5°	40.3	39.7	38.6	37.4	37.4	37.4	39.1	40.8	42.5	42.5
35.2	5°	37.4	37.4	36.9	35.7	35.7	36.3	38.6	41.4	43.7	44.2
32.3	7.5°	34.6	35.7	34.6	34.0	34.6	35.2	37.4	40.8	44.2	45.4
30.1	10°	32.9	33.5	33.5	32.9	32.9	34.0	36.3	40.8	45.4	47.1
27.2	12.5°	30.6	31.8	31.2	31.2	31.2	32.3	35.2	40.3	46.5	48.8
24.4	15°	28.4	30.1	30.1	29.5	29.5	30.1	34.0	39.7	48.2	52.2
21.0	17.5°	26.1	27.8	28.4	27.2	27.2	28.4	32.3	39.7	49.3	56.1
17.0	20°	21.5	24.4	26.1	24.4	24.4	25.5	29.5	37.4	49.9	60.1
12.5	22.5°	17.0	19.8	22.1	21.5	21.5	22.1	27.2	35.7	50.5	66.9
7.4	25°	12.5	15.3	17.0	18.1	18.1	19.8	24.9	34.6	52.7	81.1
3.4	27.5°	7.4	10.8	13.0	14.2	14.7	17.0	23.2	33.5	56.7	101.5
0.0	30°	3.4	6.2	9.1	11.3	11.3	15.3	21.5	32.3	61.8	131.0
0.0	32.5°	0.0	2.8	4.5	7.9	8.5	12.5	19.8	31.2	69.2	159.3
0.0	35°	0.0	0.0	2.3	6.2	6.2	10.2	18.1	30.1	80.5	180.9
0.0	37.5°	0.0	0.0	0.0	4.5	5.1	9.1	17.6	29.5	82.8	182.6
0.0	40°	0.0	0.0	0.0	3.4	4.0	8.5	17.6	30.1	74.8	178.6
0.0	42.5°	0.0	0.0	0.0	2.3	2.8	8.5	17.6	31.2	67.5	183.1
0.0	45°	0.0	0.0	0.0	1.7	2.3	9.1	17.0	30.6	63.5	207.0
0.0	47.5°	0.0	0.0	0.0	2.3	3.4	9.1	16.4	30.1	64.1	285.8
0.0	50°	0.0	0.0	0.0	2.8	4.0	9.1	17.0	28.9	70.3	439.4
0.0	52.5°	0.0	0.0	0.0	2.3	3.4	10.2	18.7	28.4	76.5	571.5
0.0	55°	0.0	0.0	0.0	0.6	1.7	13.0	20.4	28.4	86.2	604.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	14.7	23.2	30.1	102.1	591.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	14.7	23.8	30.1	103.2	580.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	14.7	26.1	33.5	111.1	516.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	12.5	31.2	42.0	115.7	406.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	10.2	36.9	45.9	119.1	323.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	9.6	38.0	46.5	120.8	257.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	10.2	37.4	49.9	126.4	209.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	11.3	34.0	55.0	126.4	185.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	11.9	31.8	61.8	115.1	160.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	11.3	31.2	72.0	102.6	132.1
0.0	80°	1.1	1.7	1.7	1.1	1.1	9.6	30.6	73.1	87.3	90.7
0.6	82.5°	3.4	4.5	4.0	2.8	2.8	8.5	27.2	61.2	45.4	39.1
3.4	85°	6.2	7.4	7.4	6.2	6.2	7.9	17.0	22.1	15.3	12.5
6.2	87.5°	8.5	9.6	9.6	8.5	8.5	7.9	7.4	6.8	6.2	6.2
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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

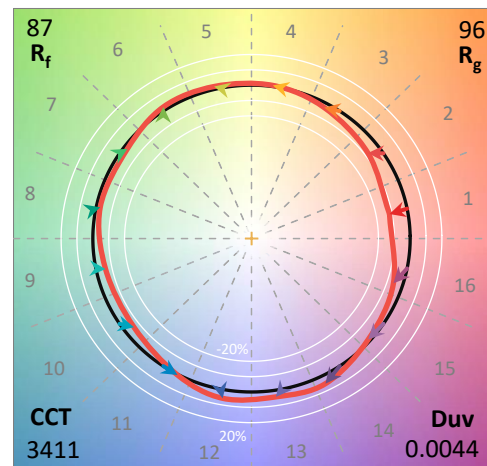
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u' : 0.2360
 CIE v' : 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 R_f: 86.6
 R_g: 95.9

CRI (Ra): 83.5
 R1: 81.1
 R2: 88.9
 R3: 97.2
 R4: 83.8
 R5: 81.7
 R6: 86.9
 R7: 86.1
 R8: 62.2
 R9: 6.3
 R10: 75.4
 R11: 84.1
 R12: 69.7
 R13: 82.8
 R14: 98.5
 R15: 72.6



Test Conditions

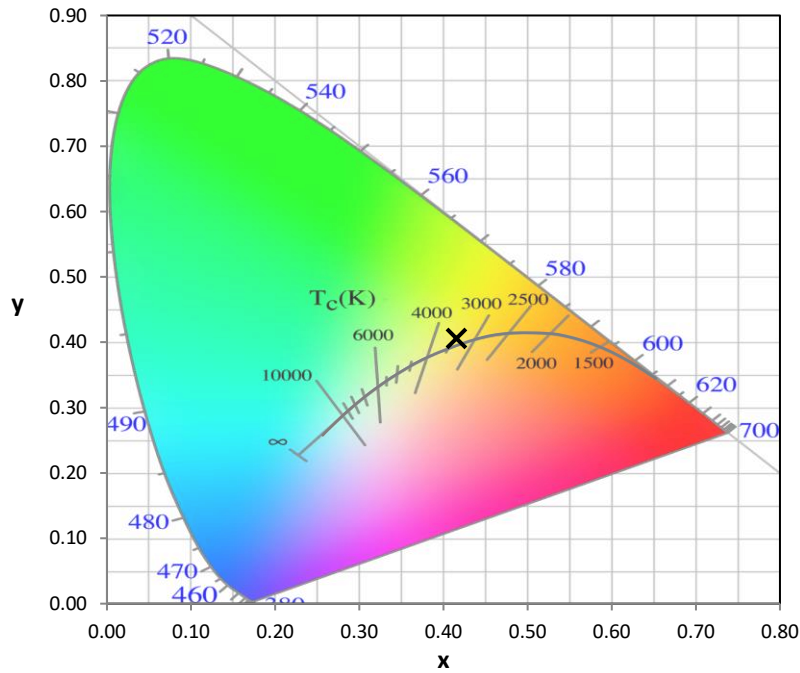
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

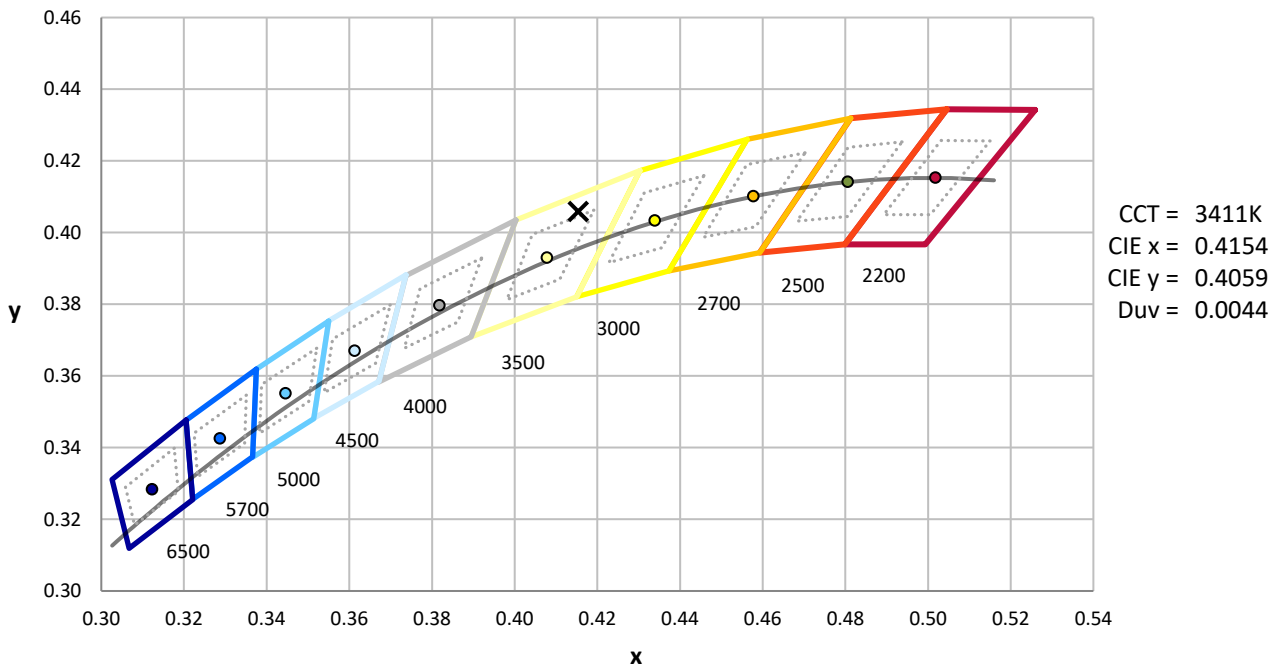
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



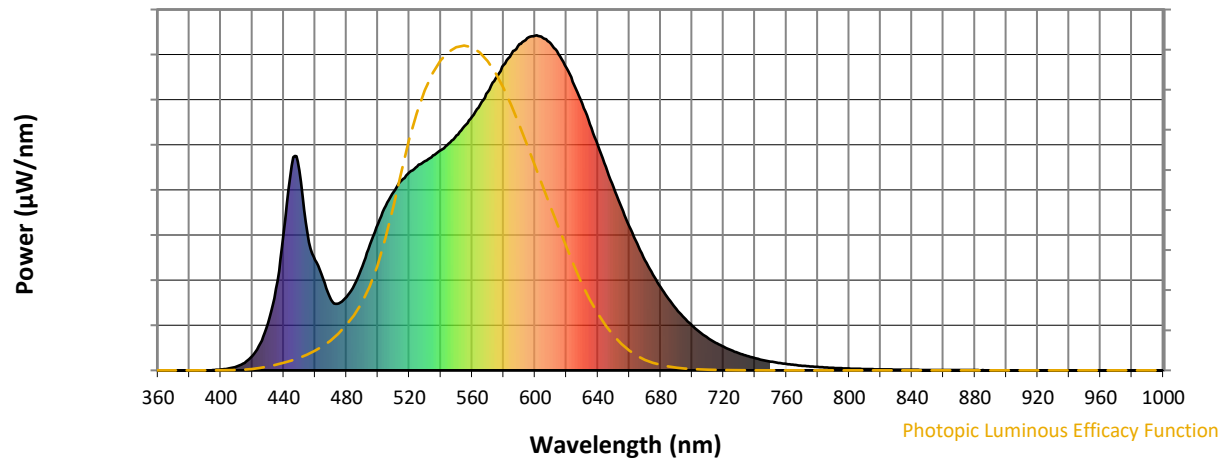
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

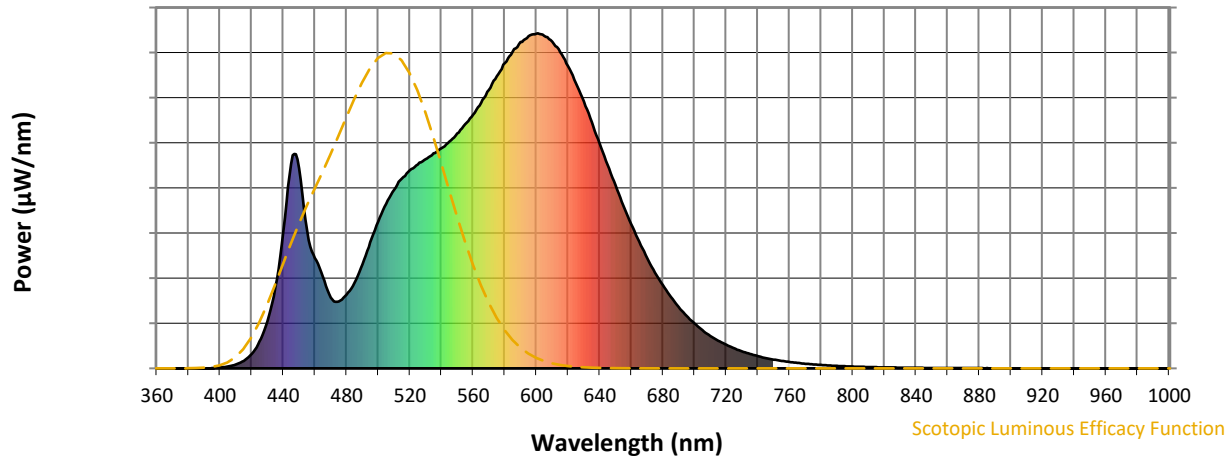


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength



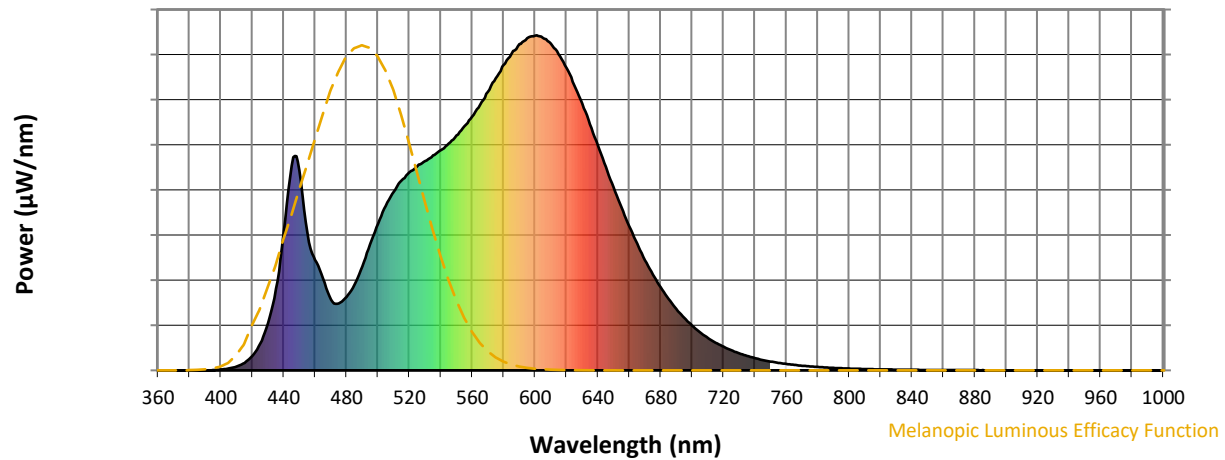
Scotopic Lumens: NR

S/P: 1.48

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.88

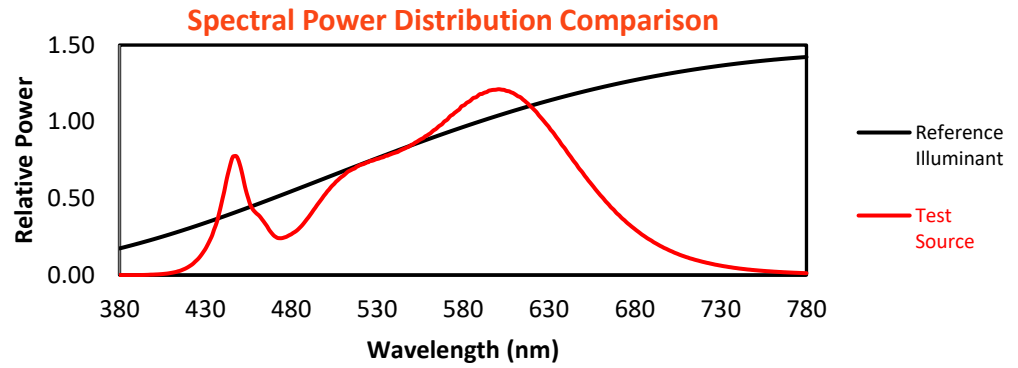
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

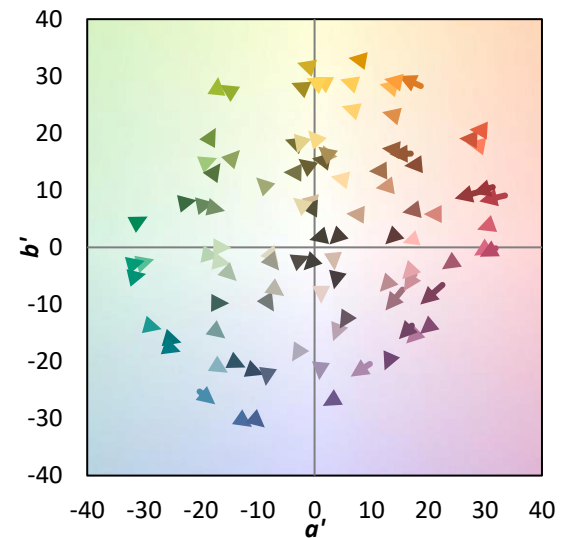
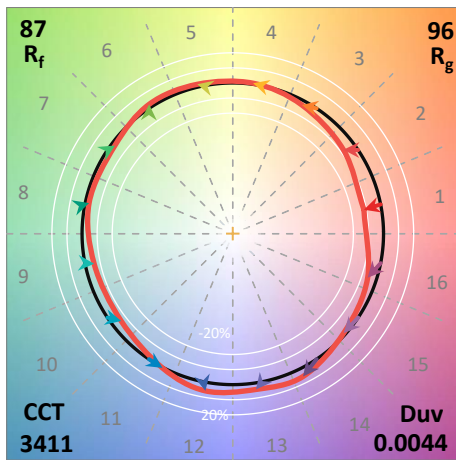
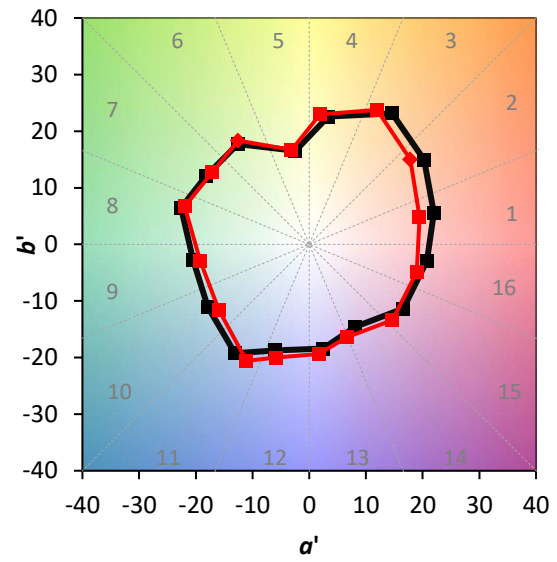
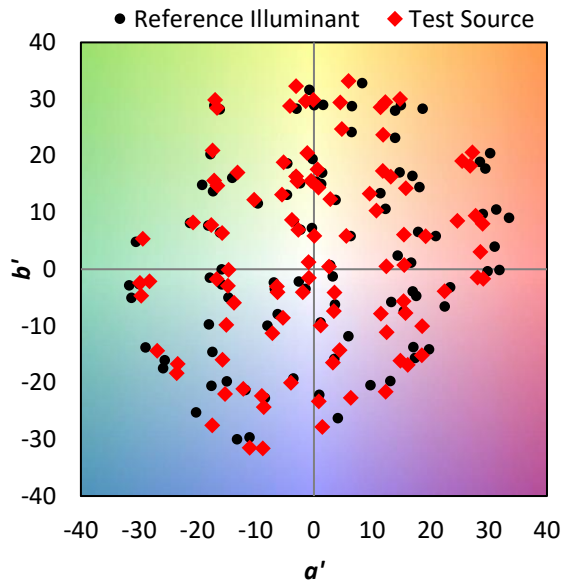
TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $CIE R_a = 83.5$
 $R_9 = 6.3$

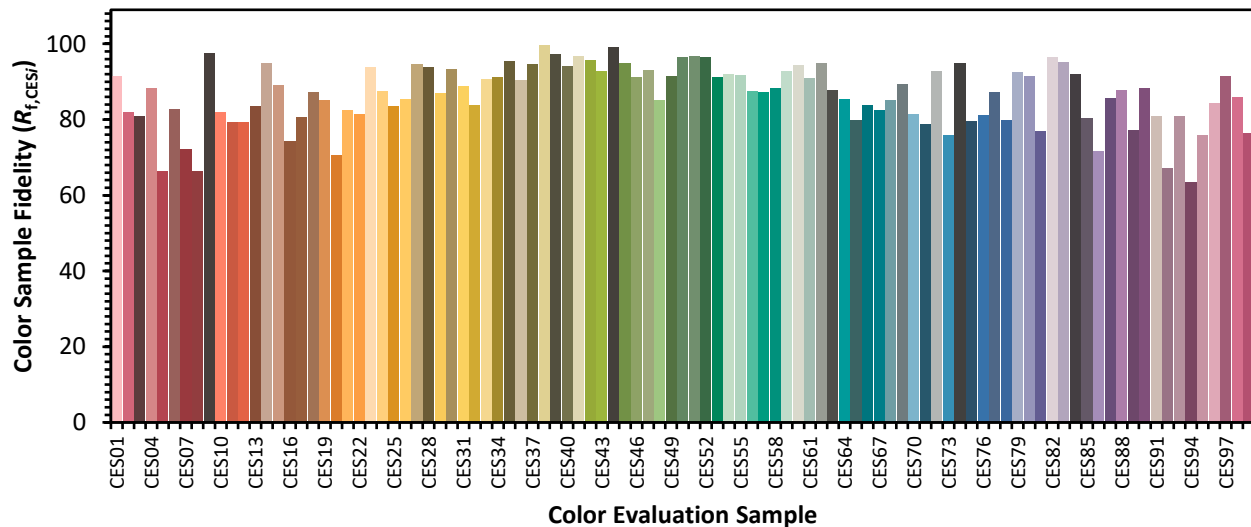


Color Vector Graphics

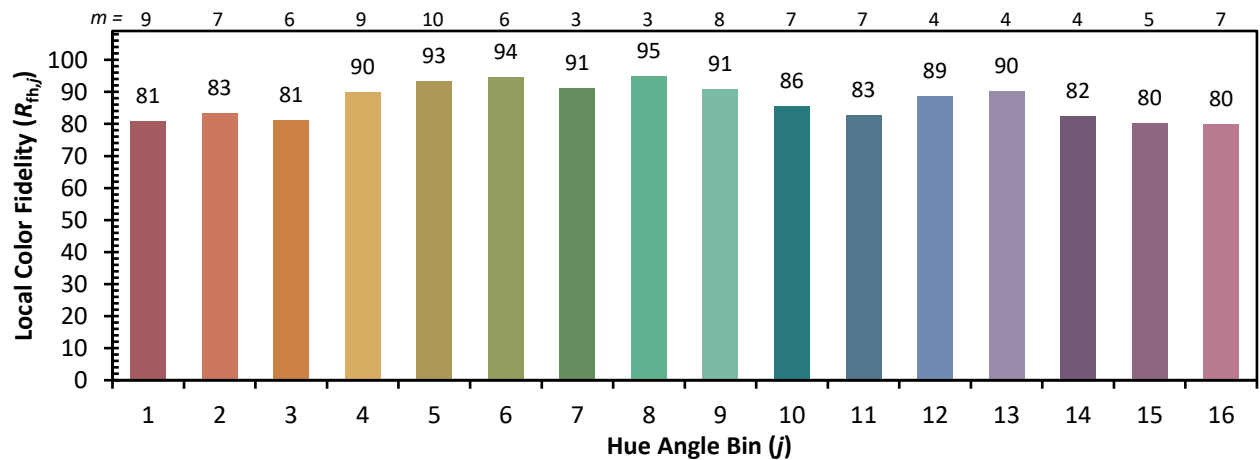
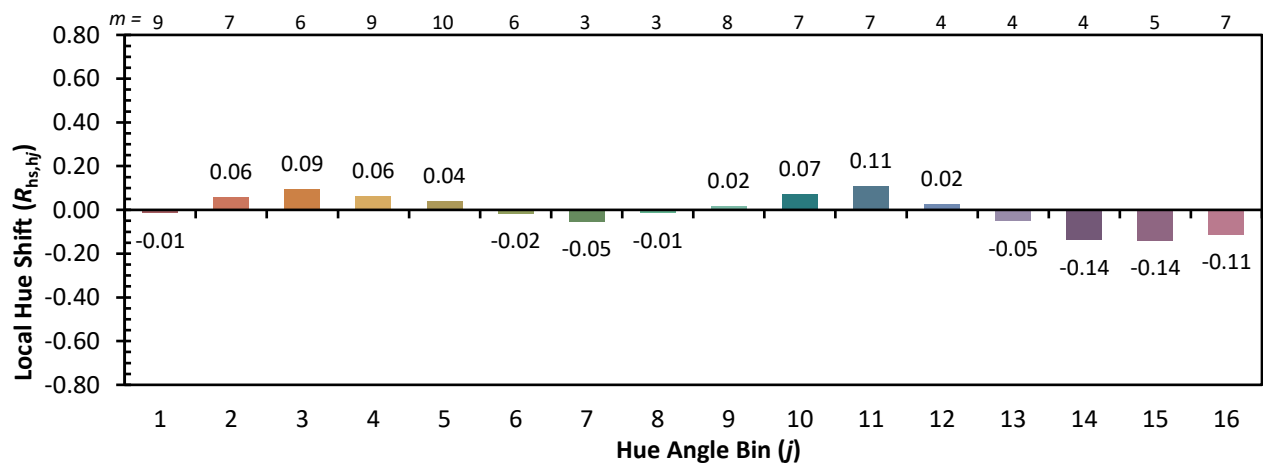
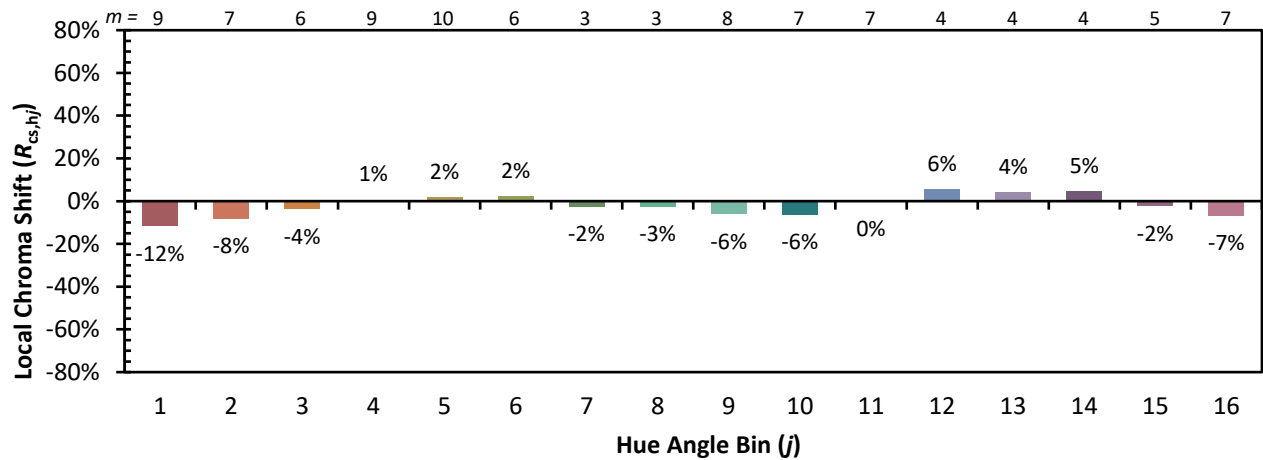


Individual Sample Fidelity Index ($R_{f,i}$)

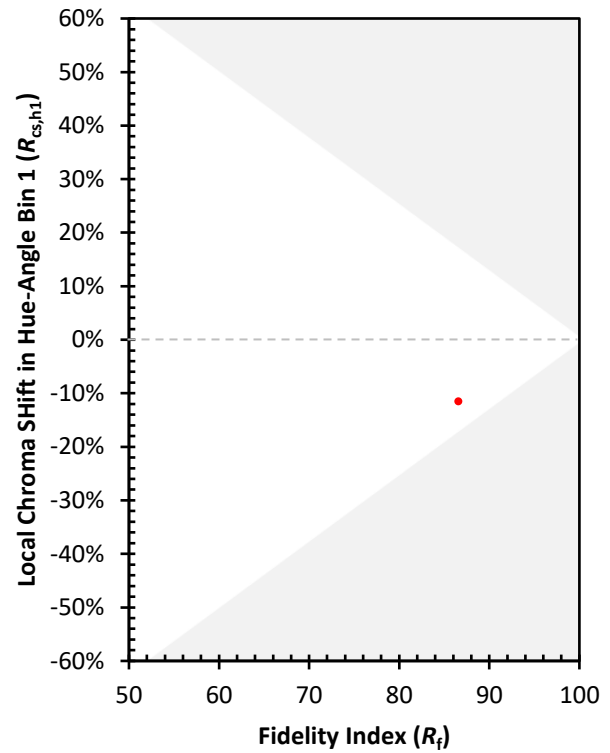
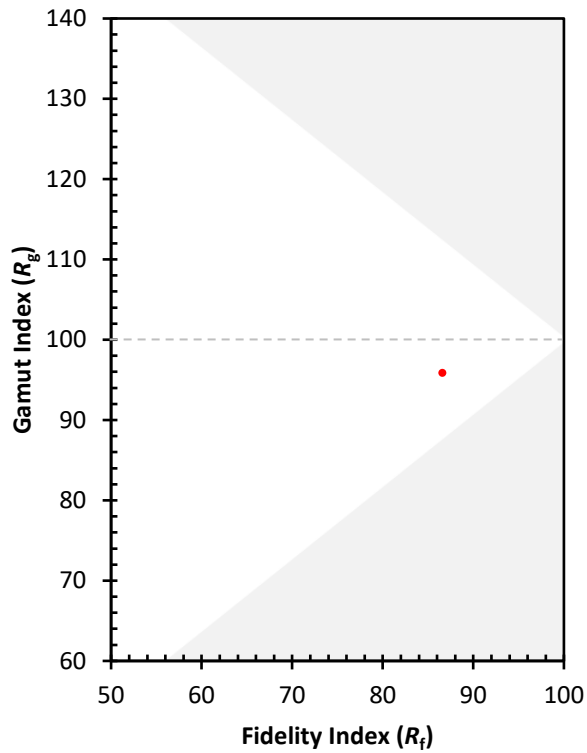
CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)