

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: P1049607

Luminaire Tested: **GALN-SA1C-735-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049607
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5106.4 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 50.2
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

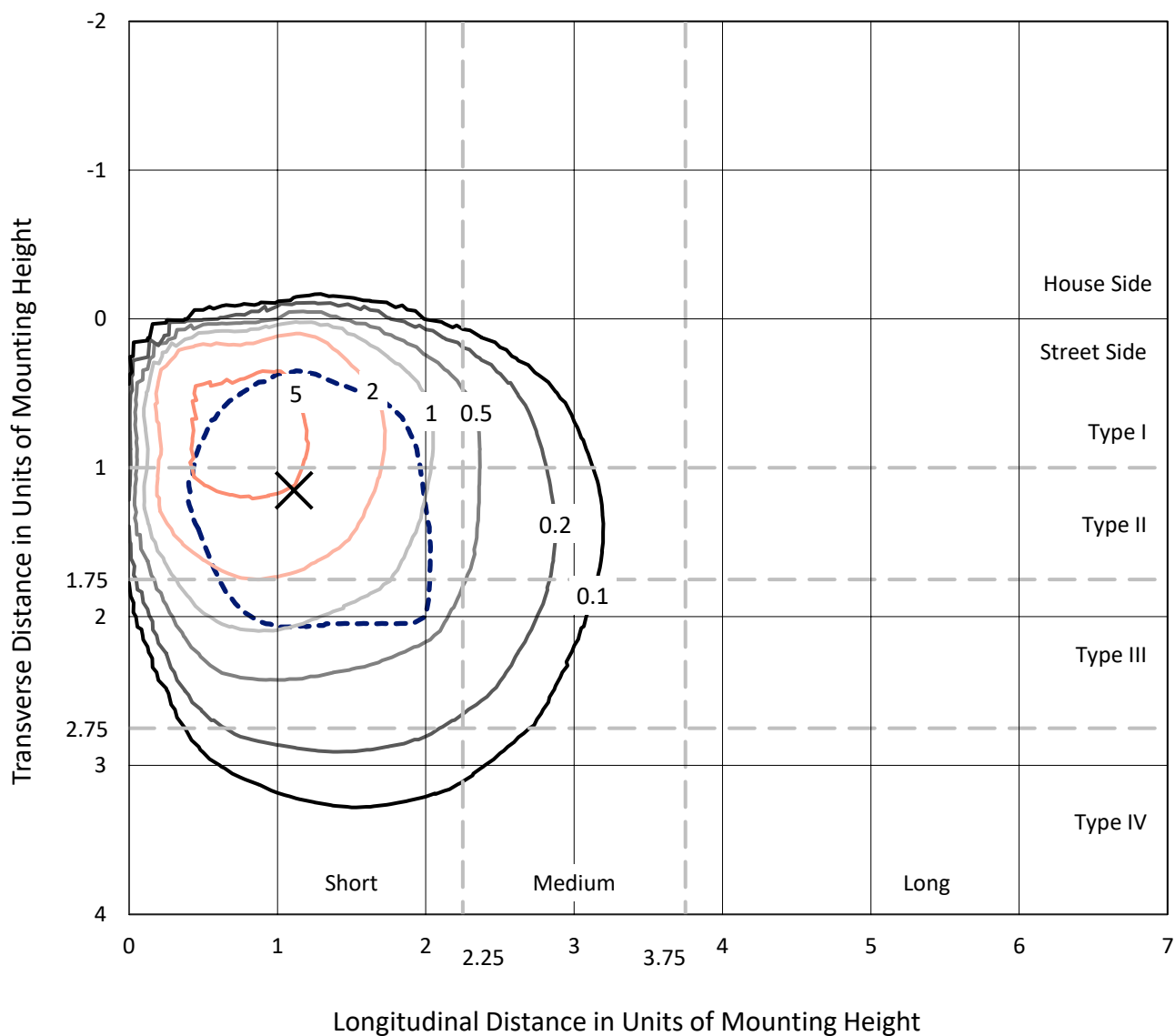
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

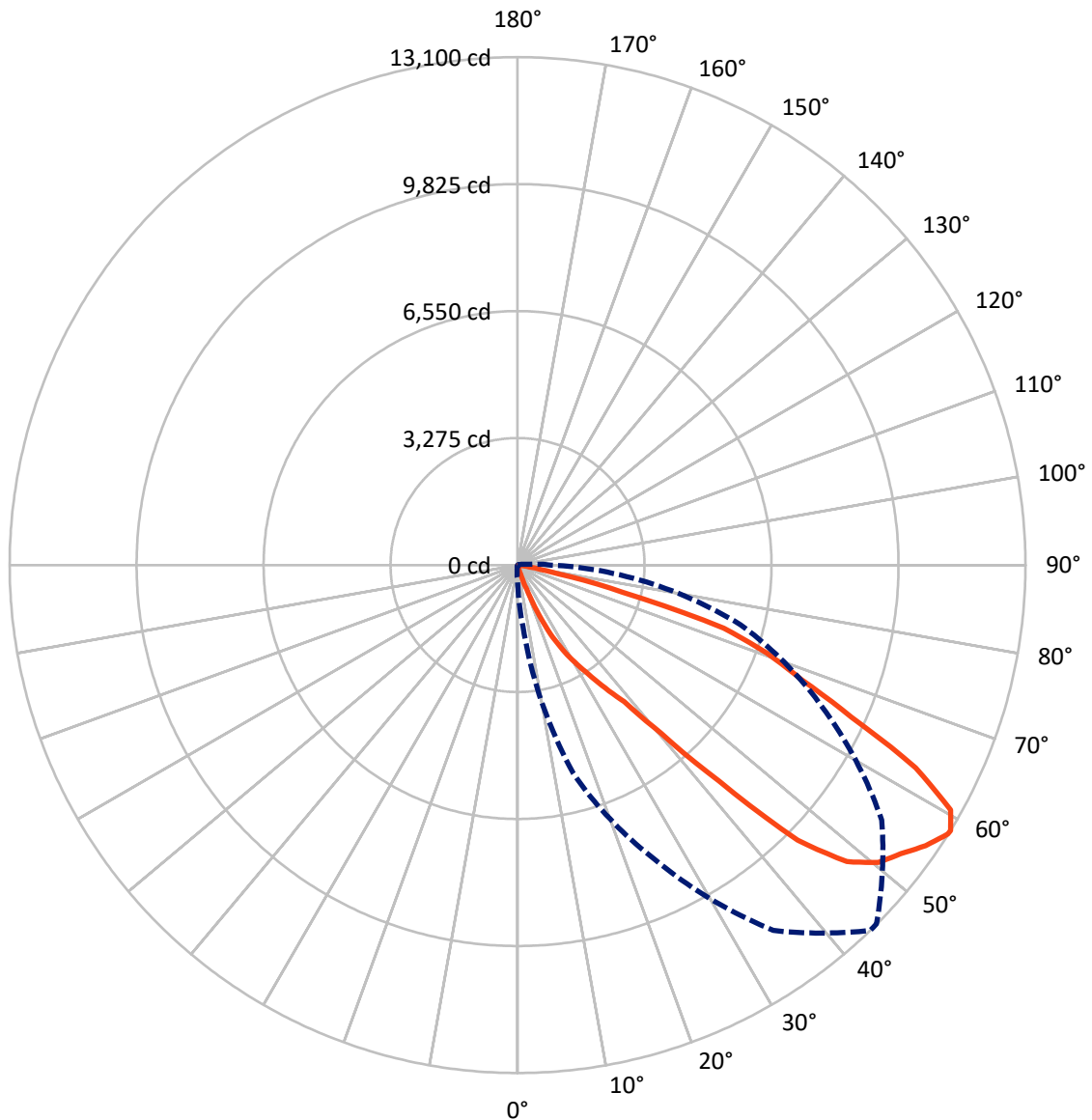


Based on 20 foot mounting height. Maximum calculated value = 8.9 fc

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	34.9	0.0	34.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	5071.6	0.0	5071.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	5106.4	0.0	5106.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.0
10°-20°	11.2	0.2
20°-30°	121.0	2.4
30°-40°	357.8	7.0
40°-50°	1066.3	20.9
50°-60°	1692.0	33.1
60°-70°	1411.3	27.6
70°-80°	435.3	8.5
80°-90°	9.7	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°	5106.4	100.0
0°-180°	5106.4	100.0



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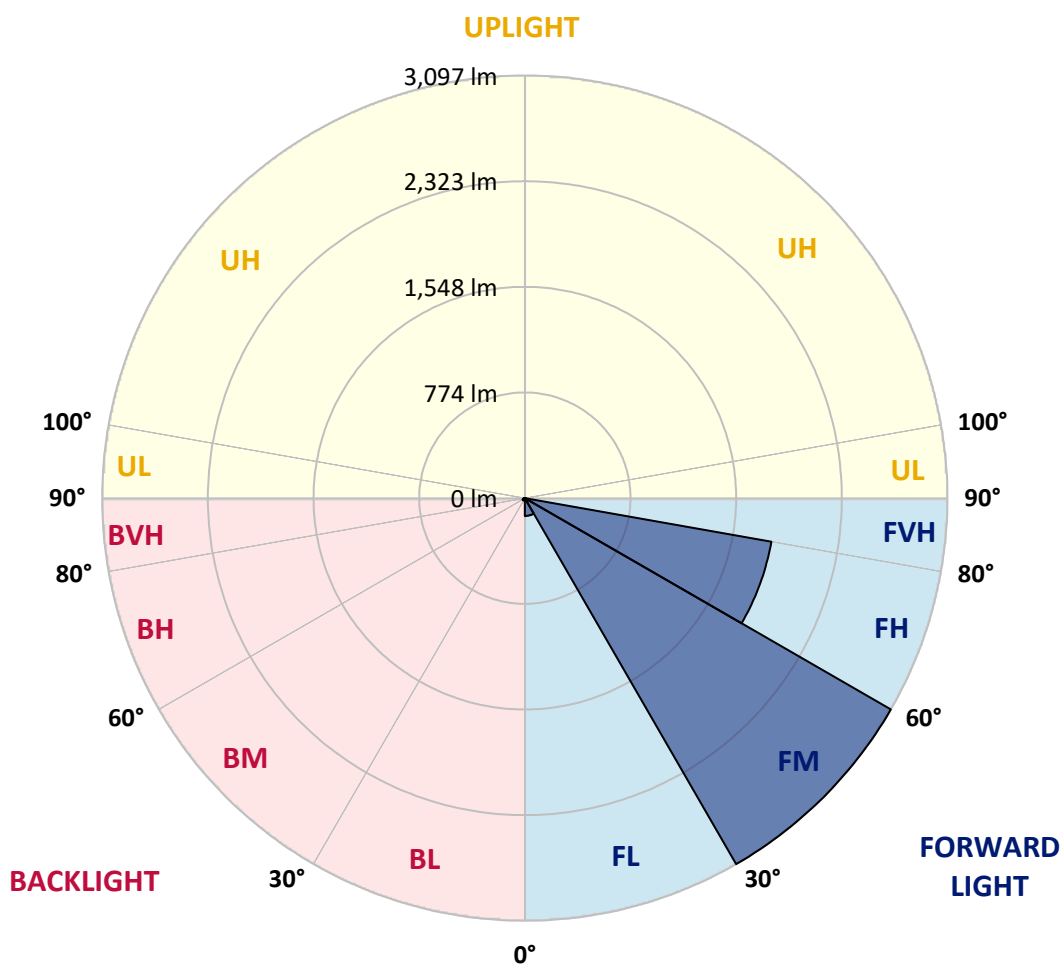
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	130.8	2.6			
FM	(30°-60°)	3096.9	60.6			
FH	(60°-80°)	1834.7	35.9			G2/5000
FVH	(80°-90°)	9.2	0.2			G0/10
BL	(0°-30°)	3.4	0.1	B0/110		
BM	(30°-60°)	19.1	0.4	B0/220		
BH	(60°-80°)	11.9	0.2	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
2.5°	28.9	28.9	27.8	26.2	24.7	23.1	22.8	22.0	21.6	21.2
5°	30.1	30.1	29.7	28.5	27.0	25.8	25.8	24.7	23.9	23.1
7.5°	30.9	31.2	32.0	31.6	30.9	29.7	29.7	28.9	27.8	25.8
10°	32.0	33.2	34.7	35.5	35.9	35.9	35.5	35.1	33.2	30.5
12.5°	33.2	35.5	39.3	43.2	45.5	48.6	48.2	47.4	42.4	36.6
15°	35.5	39.0	47.1	58.2	75.6	86.4	90.7	86.8	70.2	49.4
17.5°	38.2	44.0	68.3	121.9	199.8	236.8	259.2	241.1	159.7	93.7
20°	40.9	53.6	126.9	315.9	518.4	639.6	673.1	620.7	398.5	178.6
22.5°	45.5	75.2	257.3	653.1	1117.1	1298.8	1333.1	1165.3	752.6	352.6
25°	55.2	109.2	443.6	1064.3	1667.2	1973.9	1959.6	1739.7	1220.9	563.2
27.5°	69.0	158.9	670.8	1512.1	2194.1	2464.5	2496.9	2225.0	1627.5	828.2
30°	89.1	220.3	914.6	1870.9	2616.5	2908.9	2914.3	2633.1	1991.2	1060.8
32.5°	108.4	278.1	1127.9	2217.7	3032.7	3353.3	3377.2	3031.2	2262.8	1303.1
35°	123.1	315.9	1343.9	2522.4	3452.4	3894.1	3892.6	3481.8	2584.5	1519.5
37.5°	124.2	353.7	1539.5	2834.1	3984.0	4478.5	4527.5	4074.6	2973.3	1787.2
40°	121.5	396.2	1787.2	3320.1	4941.8	5700.6	5743.8	5172.9	3753.3	2245.4
42.5°	124.6	469.8	2189.1	4217.8	6532.2	7622.0	7705.3	7105.1	5187.1	3180.5
45°	140.8	608.3	3031.2	5719.5	8799.3	10127.8	10100.0	9235.6	6855.5	4603.9
47.5°	194.4	947.4	4279.5	7181.1	10248.1	11431.2	11455.1	10398.6	7829.1	5698.3
50°	299.0	1449.6	5328.3	7953.7	10871.1	12058.1	12035.7	10814.8	8199.0	6237.1
52.5°	388.8	1813.0	5854.5	8224.9	10951.0	12367.8	12366.3	10924.4	8256.5	6283.4
55°	411.2	1840.4	5858.7	8239.6	11130.0	12773.2	12824.2	11194.0	8331.0	6081.3
57.5°	402.3	1629.4	5614.2	8324.4	11448.6	13086.8	13089.5	11455.1	8520.0	5957.5
58°	394.6	1596.2	5564.8	8372.6	11503.4	13100.0	13093.4	11467.1	8673.9	5952.8
60°	351.4	1386.0	5372.3	8495.7	11422.0	12830.7	12769.4	11205.9	8651.1	5905.4
62.5°	276.2	1081.2	5182.9	8353.3	10549.4	11527.3	11552.7	9921.0	7886.6	5628.8
65°	219.9	805.8	4787.9	7327.3	8687.0	9466.2	9561.1	8067.5	6582.8	4766.3
67.5°	175.1	582.5	4016.4	5833.7	6874.0	7900.5	7969.5	6773.3	5100.0	3651.9
70°	142.3	393.8	2772.4	4266.4	5669.7	6823.9	6828.1	5626.9	3806.6	2392.8
72.5°	126.1	272.7	1609.3	3111.4	4597.3	5560.5	5448.3	4566.1	2925.5	1417.2
75°	109.2	180.9	789.2	1902.1	2787.4	2806.3	2849.1	2118.1	1462.4	673.9
77.5°	89.9	128.5	310.9	519.6	835.9	1070.1	1109.8	840.9	486.4	165.9
80°	61.7	60.9	83.7	159.3	239.2	299.7	279.7	216.4	127.3	63.6
82.5°	26.6	28.9	37.8	45.5	37.0	35.9	34.3	22.0	17.0	13.1
85°	8.5	7.7	8.1	8.1	6.6	5.0	5.0	2.3	0.0	0.0
87.5°	4.2	3.5	3.5	3.1	1.9	0.8	0.4	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°
22.4	0°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
20.8	2.5°	20.4	20.4	19.7	18.9	18.5	17.7	17.4	17.0	16.6	16.2
22.4	5°	21.6	21.2	20.1	18.9	17.7	16.6	15.8	15.0	14.3	13.9
24.7	7.5°	23.5	22.8	20.4	18.5	17.0	15.4	14.7	13.5	12.7	11.6
27.4	10°	25.8	24.3	21.2	18.9	16.6	14.7	13.5	12.3	11.2	9.6
31.2	12.5°	28.9	26.2	22.4	18.5	15.8	13.5	12.3	10.8	9.6	8.5
36.3	15°	31.6	28.2	22.8	18.5	15.0	12.3	10.8	9.3	8.1	6.6
45.5	17.5°	35.5	29.7	22.4	17.4	13.9	10.8	9.3	8.1	6.2	3.9
67.5	20°	42.0	30.9	21.6	16.2	12.0	8.9	6.9	5.4	2.7	0.8
101.5	22.5°	52.5	33.9	20.8	14.7	10.4	6.9	4.6	1.9	0.0	0.0
154.3	25°	72.5	39.3	20.8	13.9	9.3	5.0	1.5	0.0	0.0	0.0
219.1	27.5°	96.4	46.7	20.8	12.0	7.3	2.7	0.0	0.0	0.0	0.0
298.6	30°	120.7	54.8	20.8	10.4	5.8	0.4	0.0	0.0	0.0	0.0
367.6	32.5°	143.9	61.7	21.2	8.9	3.9	0.0	0.0	0.0	0.0	0.0
463.3	35°	167.4	62.9	20.8	7.7	2.3	0.0	0.0	0.0	0.0	0.0
580.5	37.5°	197.5	60.6	19.7	6.9	1.2	0.0	0.0	0.0	0.0	0.0
763.8	40°	243.0	61.7	18.5	6.6	0.4	0.0	0.0	0.0	0.0	0.0
1090.5	42.5°	327.1	66.7	17.0	6.6	0.0	0.0	0.0	0.0	0.0	0.0
1737.0	45°	565.5	89.5	15.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0
2607.6	47.5°	935.4	160.9	15.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0
3141.1	50°	1193.9	202.5	15.8	7.3	0.0	0.0	0.0	0.0	0.0	0.0
3207.9	52.5°	1192.0	225.7	16.6	7.7	1.5	0.0	0.0	0.0	0.0	0.0
2956.7	55°	1059.6	229.9	17.7	8.5	5.0	0.0	0.0	0.0	0.0	0.0
2540.9	57.5°	885.7	209.8	20.4	10.4	9.3	0.0	0.0	0.0	0.0	0.0
2475.7	58°	854.8	200.6	21.2	10.8	10.0	0.0	0.0	0.0	0.0	0.0
2147.5	60°	700.5	163.6	27.0	13.5	13.5	0.0	0.0	0.0	0.0	0.0
1760.5	62.5°	483.7	142.7	30.9	17.4	13.9	0.0	0.0	0.0	0.0	0.0
1298.0	65°	342.2	128.8	33.6	18.5	11.2	0.0	0.0	0.0	0.0	0.0
922.3	67.5°	255.8	118.8	37.0	18.9	5.8	0.0	0.0	0.0	0.0	0.0
578.6	70°	196.0	111.5	45.5	20.1	1.5	0.0	0.0	0.0	0.0	0.0
344.9	72.5°	159.7	103.0	55.2	20.8	0.0	0.0	0.0	0.0	0.0	0.0
206.8	75°	132.3	93.0	53.2	22.8	0.0	0.0	0.0	0.0	0.0	0.0
110.3	77.5°	88.0	72.1	48.6	22.8	0.0	0.0	0.0	0.0	0.0	0.0
39.3	80°	30.9	28.5	37.8	20.1	0.0	0.0	0.0	0.0	0.0	0.0
8.1	82.5°	4.6	3.9	5.4	6.9	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°
22.4	0°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
15.8	2.5°	15.8	15.8	15.4	15.8	15.8	16.6	18.5	21.2	24.3	25.5
13.5	5°	13.1	12.7	12.3	12.3	12.3	13.5	15.0	18.1	21.6	23.1
11.2	7.5°	10.8	10.4	10.0	9.6	9.6	10.4	12.3	15.8	19.3	20.8
9.3	10°	8.9	8.1	7.7	7.3	7.3	8.1	10.0	13.5	17.4	18.9
7.7	12.5°	7.3	6.2	5.4	5.0	4.6	5.8	7.7	10.8	15.0	17.0
5.8	15°	5.0	3.9	2.7	2.3	1.9	3.1	5.0	8.5	12.7	15.0
3.1	17.5°	2.7	1.2	0.4	0.0	0.0	0.8	2.3	6.2	10.4	12.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	7.7	9.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.6	6.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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	1.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1
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°
22.4	0°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
26.6	2.5°	27.4	27.0	26.2	25.5	25.5	25.5	26.6	27.8	28.9	28.9
23.9	5°	25.5	25.5	25.1	24.3	24.3	24.7	26.2	28.2	29.7	30.1
22.0	7.5°	23.5	24.3	23.5	23.1	23.5	23.9	25.5	27.8	30.1	30.9
20.4	10°	22.4	22.8	22.8	22.4	22.4	23.1	24.7	27.8	30.9	32.0
18.5	12.5°	20.8	21.6	21.2	21.2	21.2	22.0	23.9	27.4	31.6	33.2
16.6	15°	19.3	20.4	20.4	20.1	20.1	20.4	23.1	27.0	32.8	35.5
14.3	17.5°	17.7	18.9	19.3	18.5	18.5	19.3	22.0	27.0	33.6	38.2
11.6	20°	14.7	16.6	17.7	16.6	16.6	17.4	20.1	25.5	33.9	40.9
8.5	22.5°	11.6	13.5	15.0	14.7	14.7	15.0	18.5	24.3	34.3	45.5
5.0	25°	8.5	10.4	11.6	12.3	12.3	13.5	17.0	23.5	35.9	55.2
2.3	27.5°	5.0	7.3	8.9	9.6	10.0	11.6	15.8	22.8	38.6	69.0
0.0	30°	2.3	4.2	6.2	7.7	7.7	10.4	14.7	22.0	42.0	89.1
0.0	32.5°	0.0	1.9	3.1	5.4	5.8	8.5	13.5	21.2	47.1	108.4
0.0	35°	0.0	0.0	1.5	4.2	4.2	6.9	12.3	20.4	54.8	123.1
0.0	37.5°	0.0	0.0	0.0	3.1	3.5	6.2	12.0	20.1	56.3	124.2
0.0	40°	0.0	0.0	0.0	2.3	2.7	5.8	12.0	20.4	50.9	121.5
0.0	42.5°	0.0	0.0	0.0	1.5	1.9	5.8	12.0	21.2	45.9	124.6
0.0	45°	0.0	0.0	0.0	1.2	1.5	6.2	11.6	20.8	43.2	140.8
0.0	47.5°	0.0	0.0	0.0	1.5	2.3	6.2	11.2	20.4	43.6	194.4
0.0	50°	0.0	0.0	0.0	1.9	2.7	6.2	11.6	19.7	47.8	299.0
0.0	52.5°	0.0	0.0	0.0	1.5	2.3	6.9	12.7	19.3	52.1	388.8
0.0	55°	0.0	0.0	0.0	0.4	1.2	8.9	13.9	19.3	58.6	411.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	10.0	15.8	20.4	69.4	402.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	10.0	16.2	20.4	70.2	394.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	10.0	17.7	22.8	75.6	351.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	8.5	21.2	28.5	78.7	276.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	6.9	25.1	31.2	81.0	219.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	6.6	25.8	31.6	82.2	175.1
0.0	70°	0.0	0.0	0.0	0.0	0.0	6.9	25.5	33.9	86.0	142.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	7.7	23.1	37.4	86.0	126.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	8.1	21.6	42.0	78.3	109.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	7.7	21.2	49.0	69.8	89.9
0.0	80°	0.8	1.2	1.2	0.8	0.8	6.6	20.8	49.8	59.4	61.7
0.4	82.5°	2.3	3.1	2.7	1.9	1.9	5.8	18.5	41.7	30.9	26.6
2.3	85°	4.2	5.0	5.0	4.2	4.2	5.4	11.6	15.0	10.4	8.5
4.2	87.5°	5.8	6.6	6.6	5.8	5.8	5.4	5.0	4.6	4.2	4.2
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



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

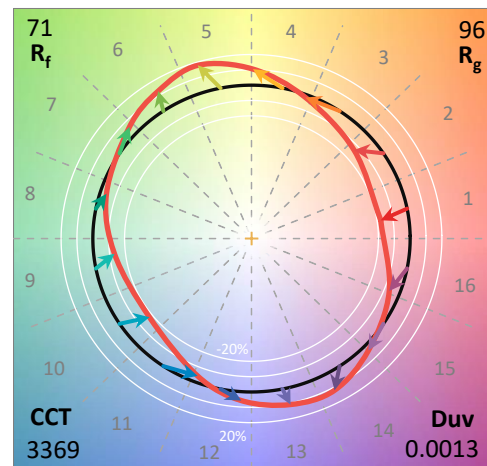
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3369	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

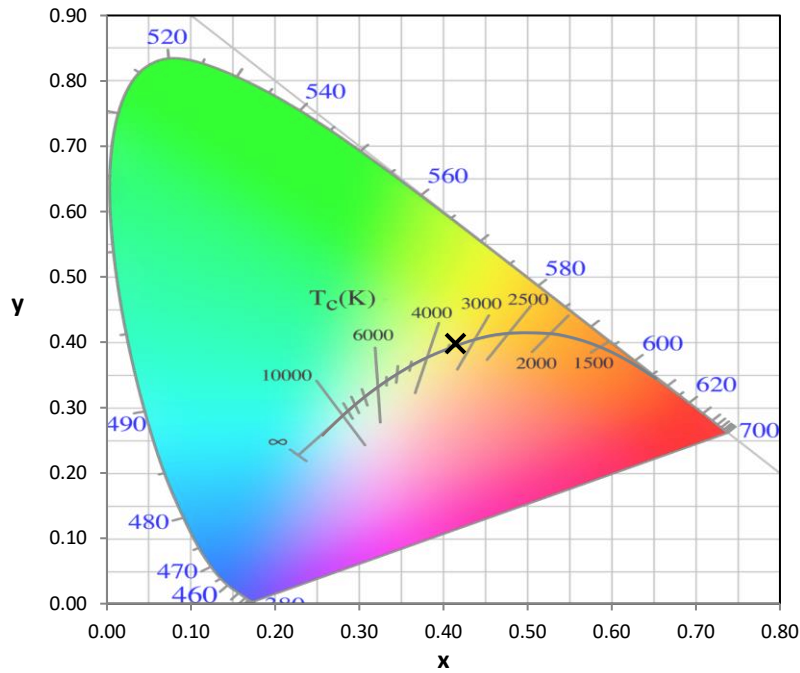
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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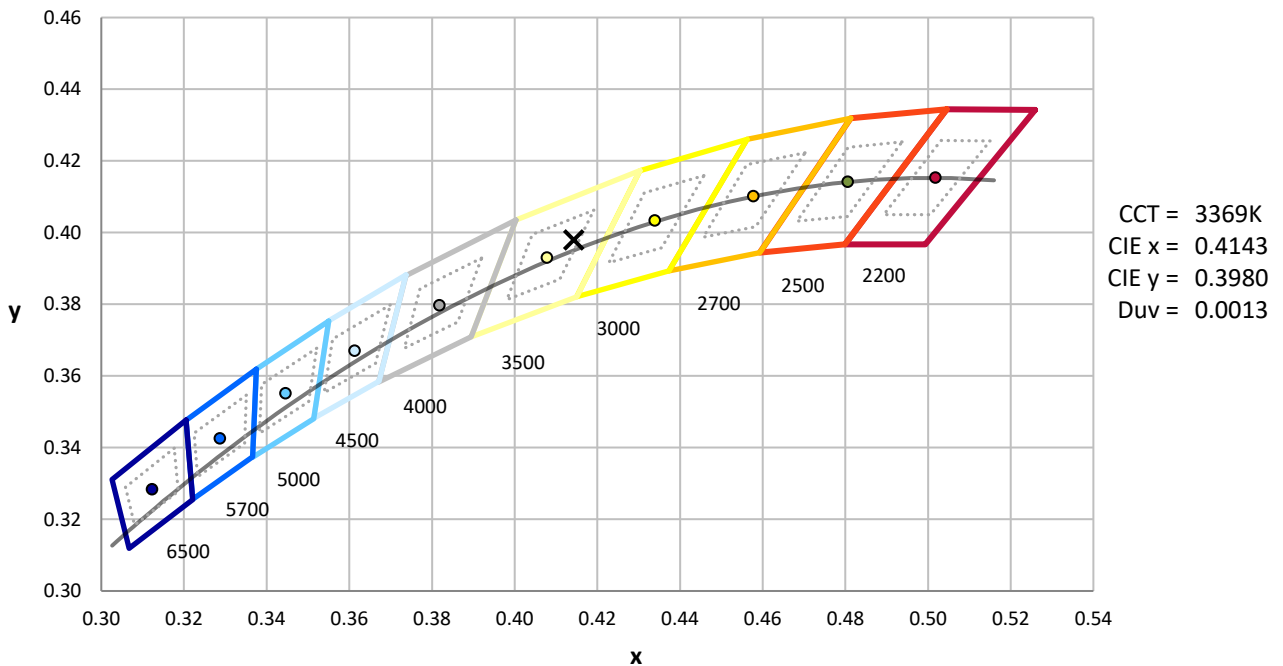
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram

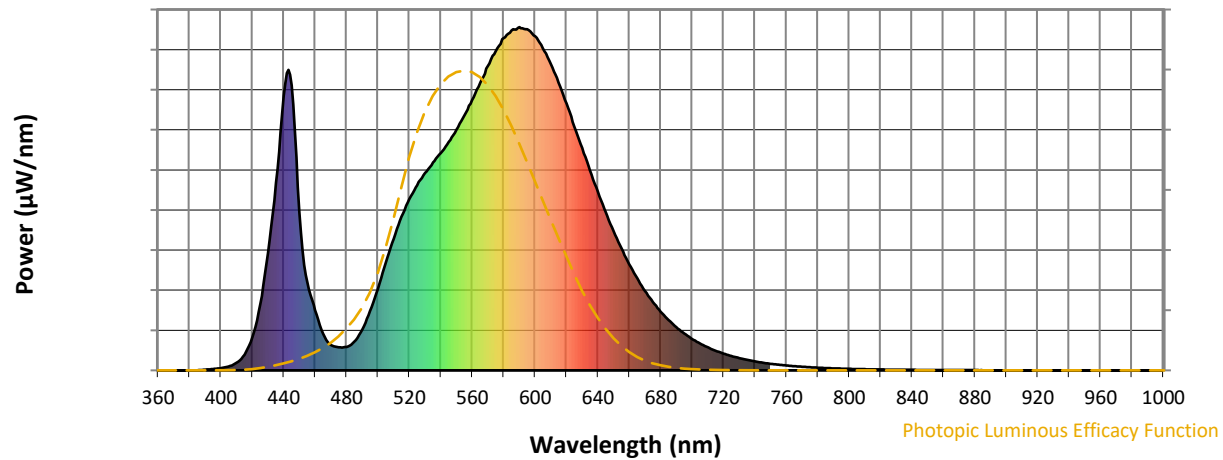


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

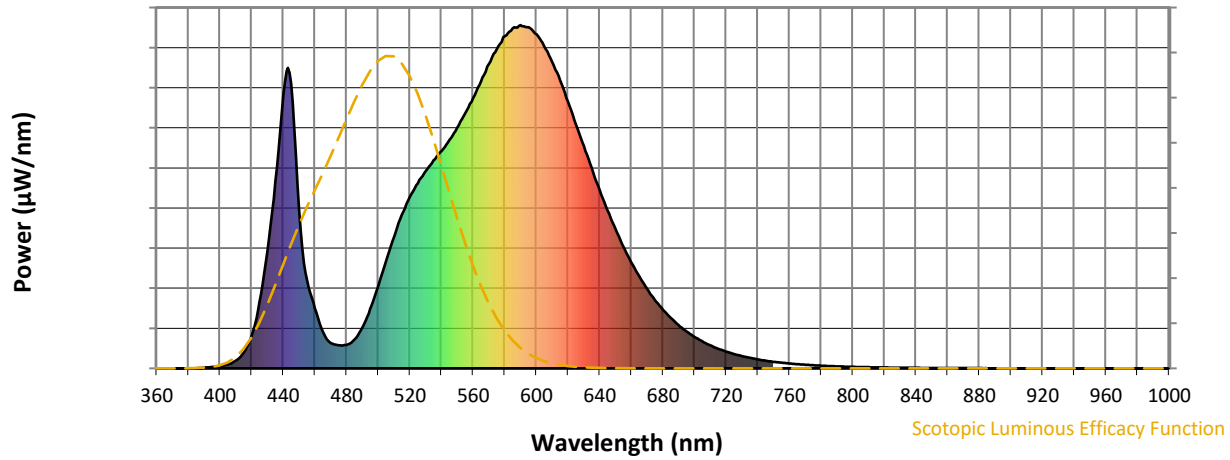


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



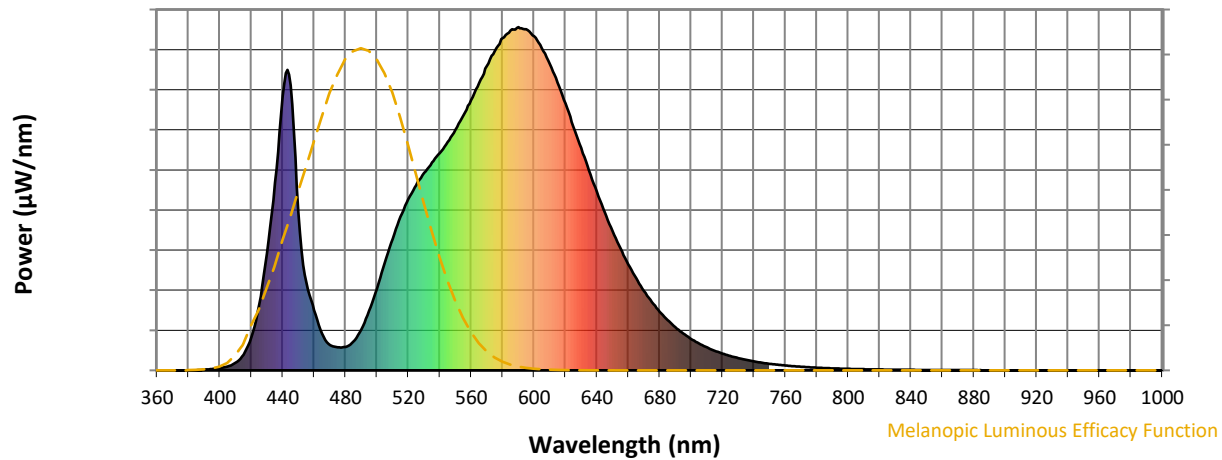
Scotopic Lumens: NR

S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

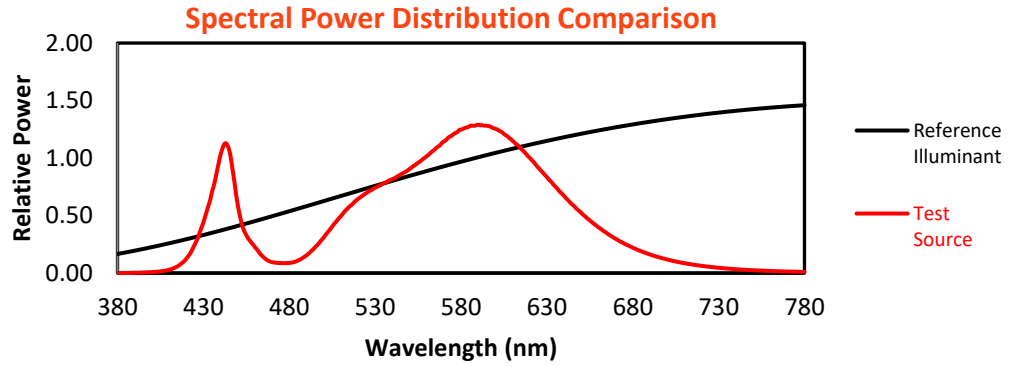
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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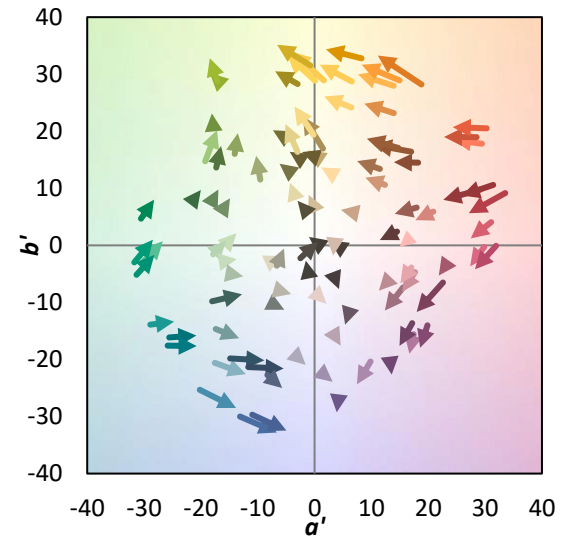
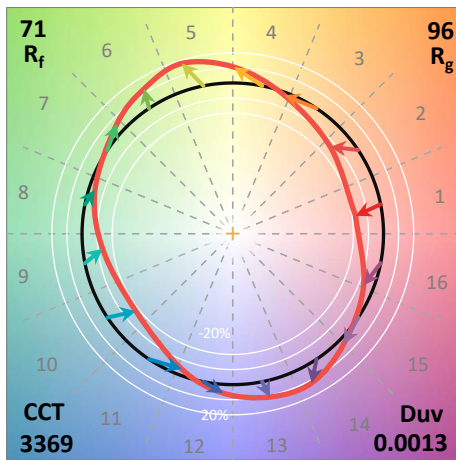
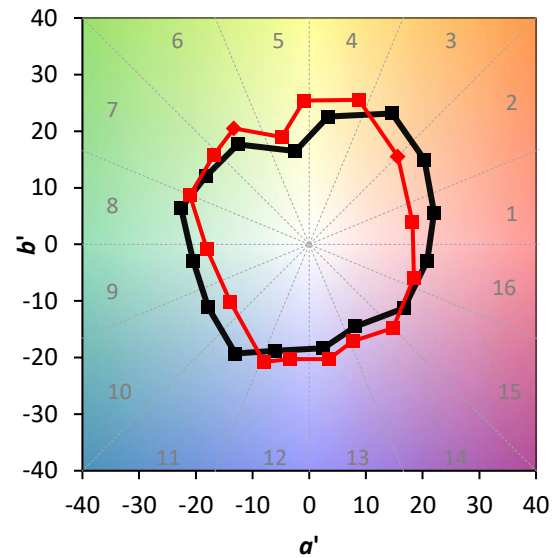
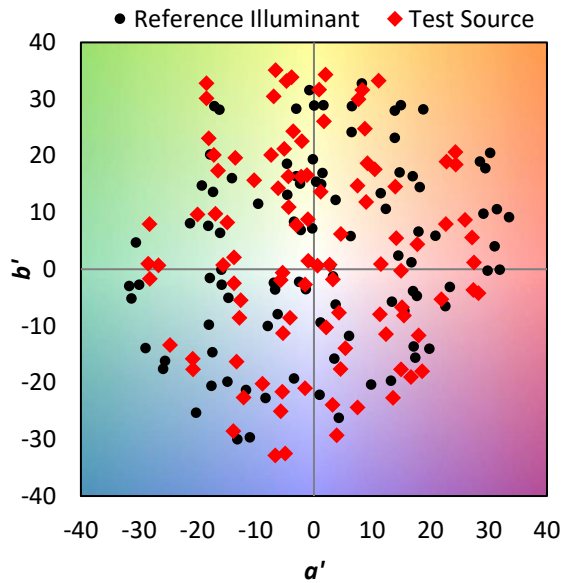
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 $CIE R_a = 70.1$
 $R_g = -40.2$

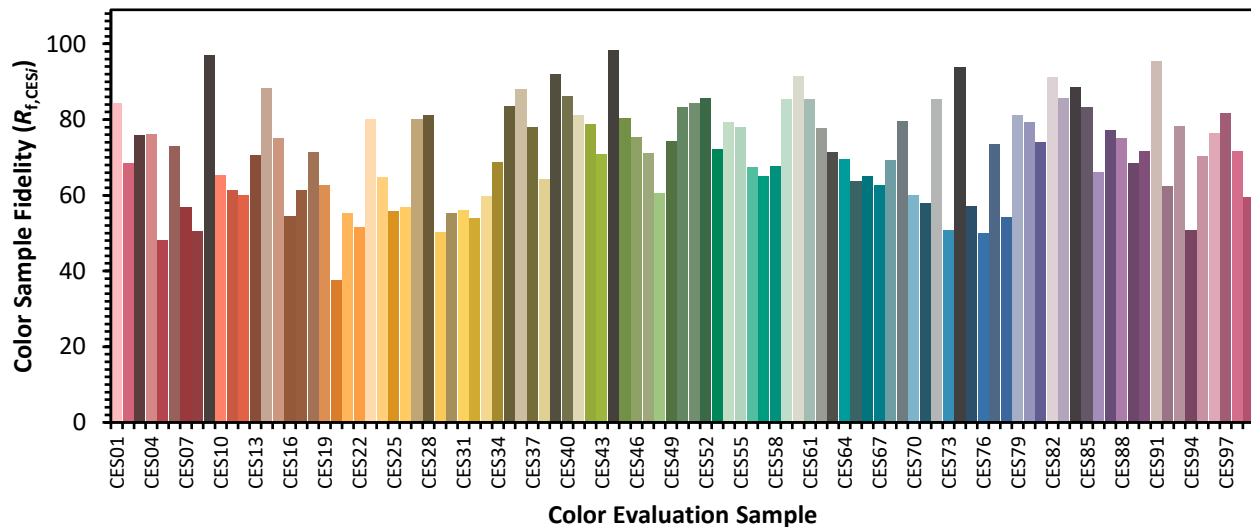


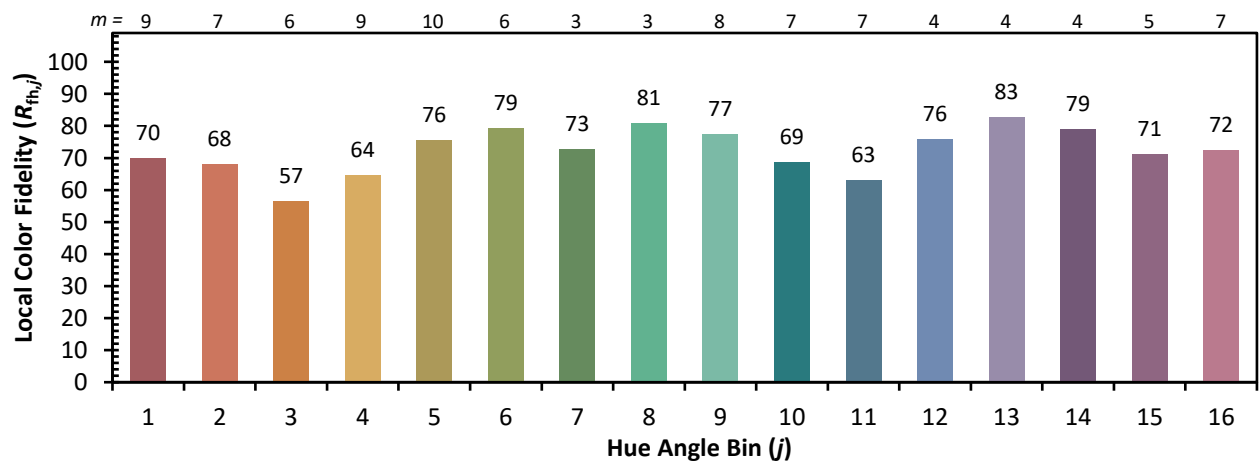
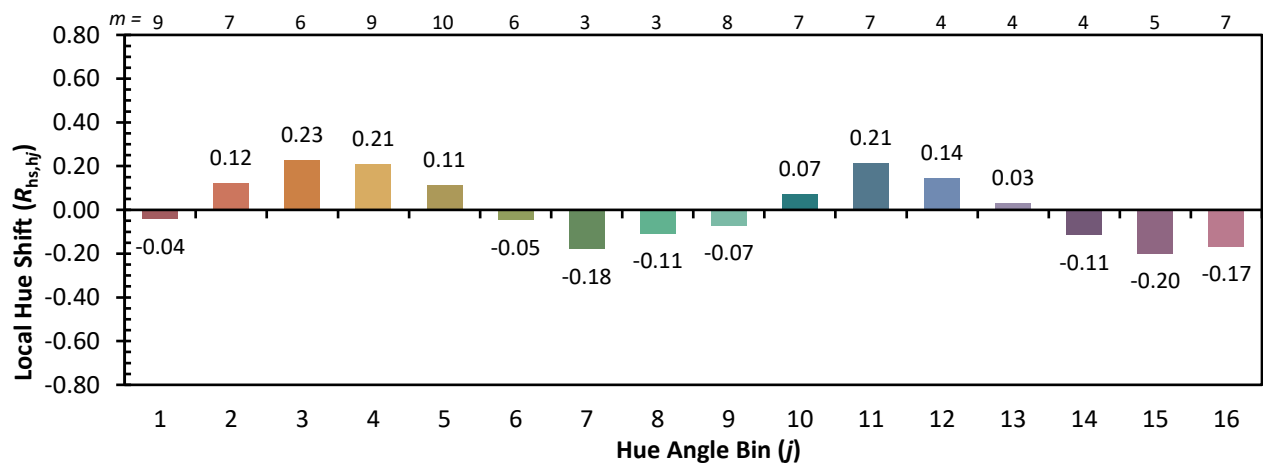
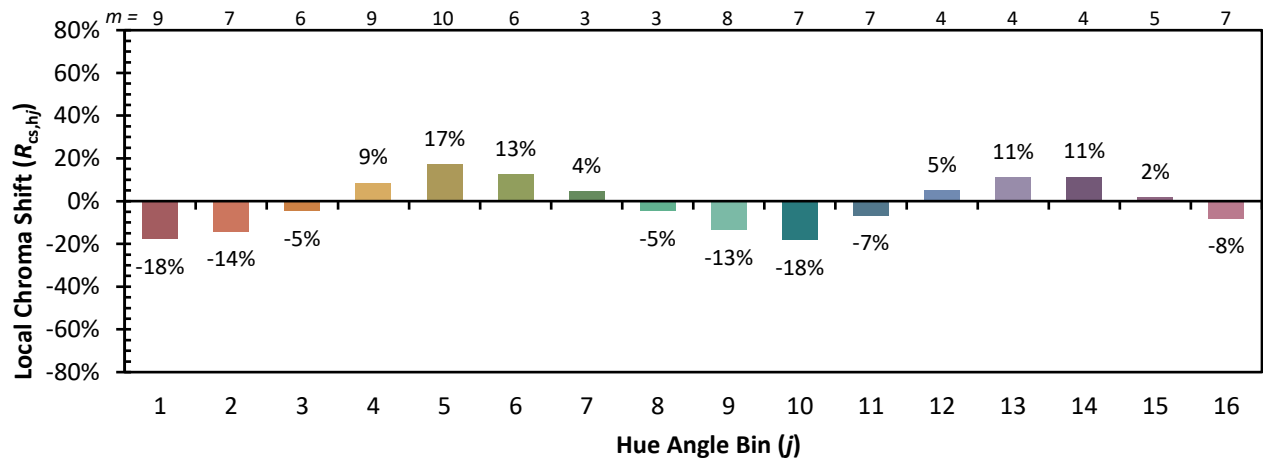
Color Vector Graphics



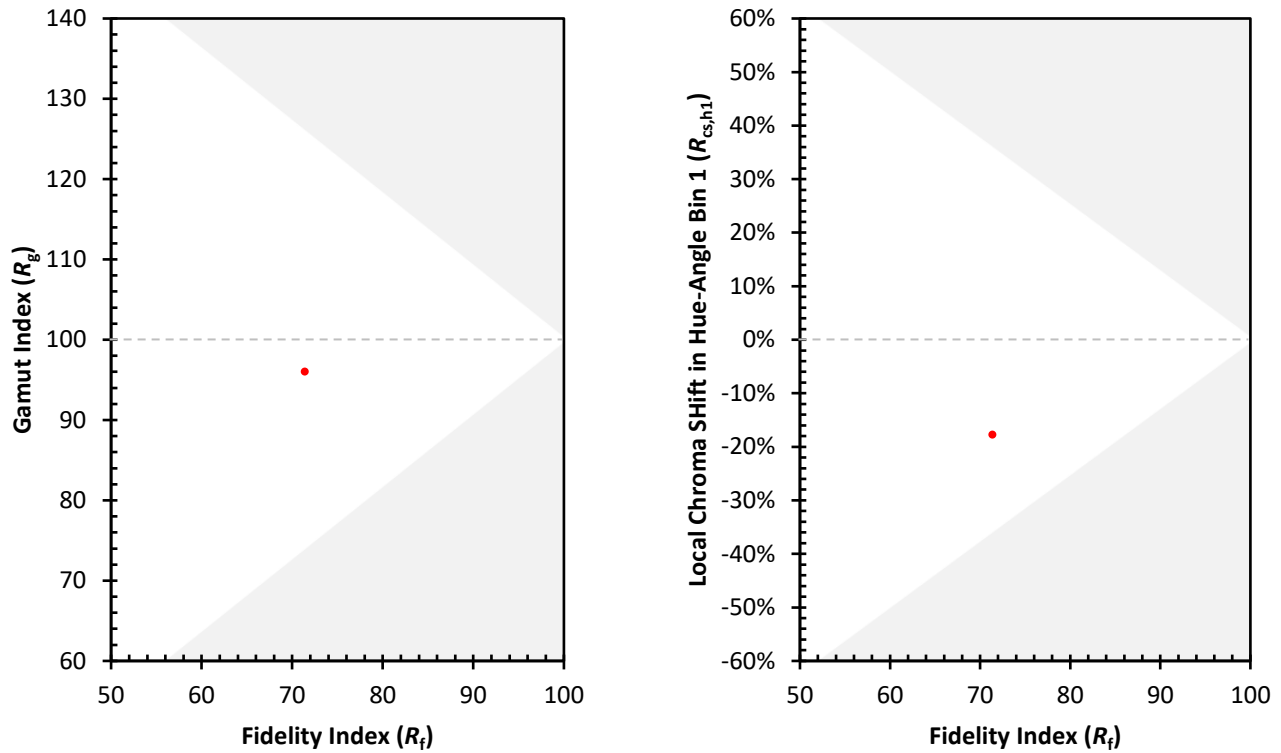
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)