

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: P1049894

Luminaire Tested: **GALN-SA1B-927-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049894
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 1xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2599.5 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 38.7
Input Voltage (V): 120
Input Current (A_{in}): 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

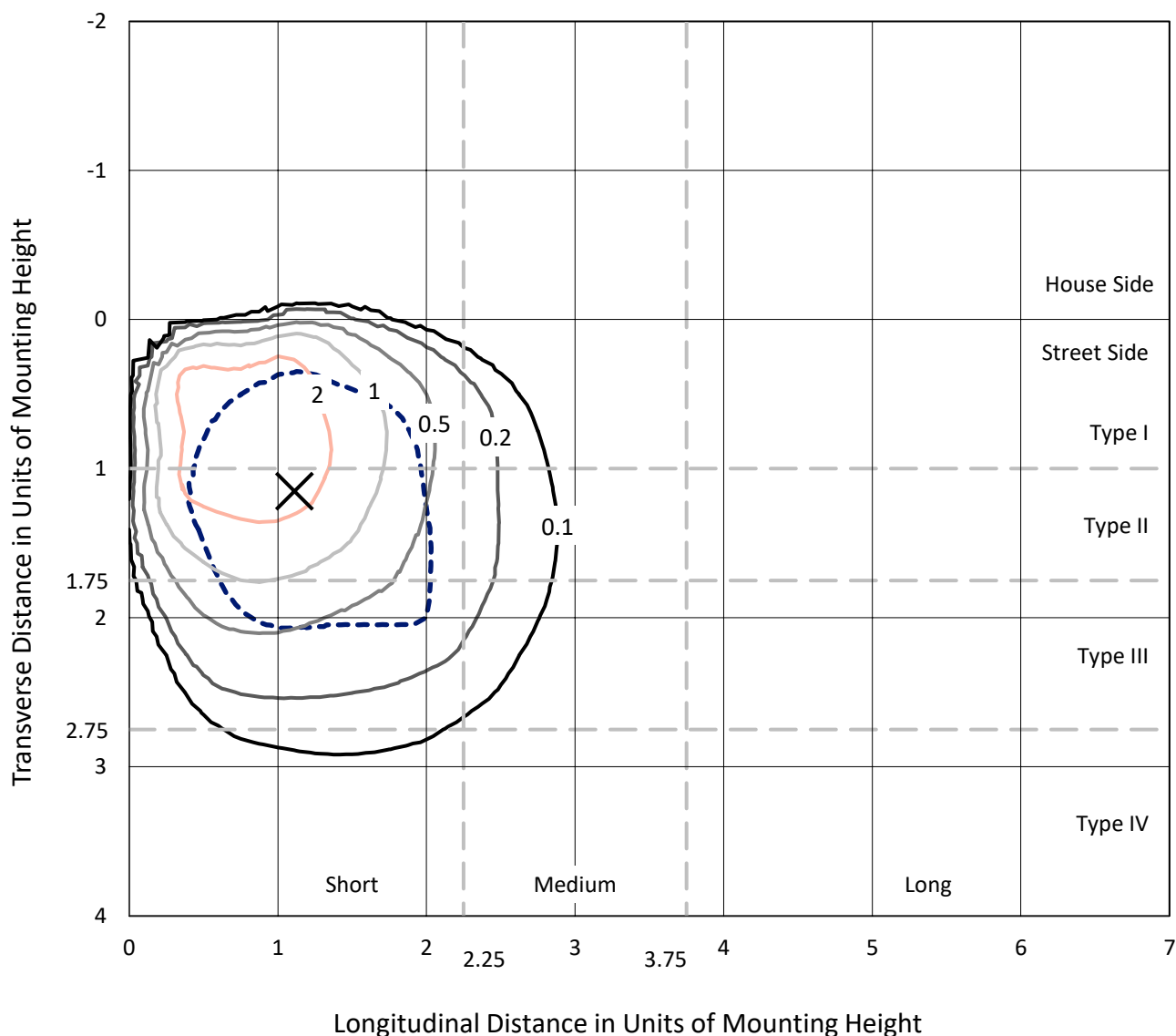
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

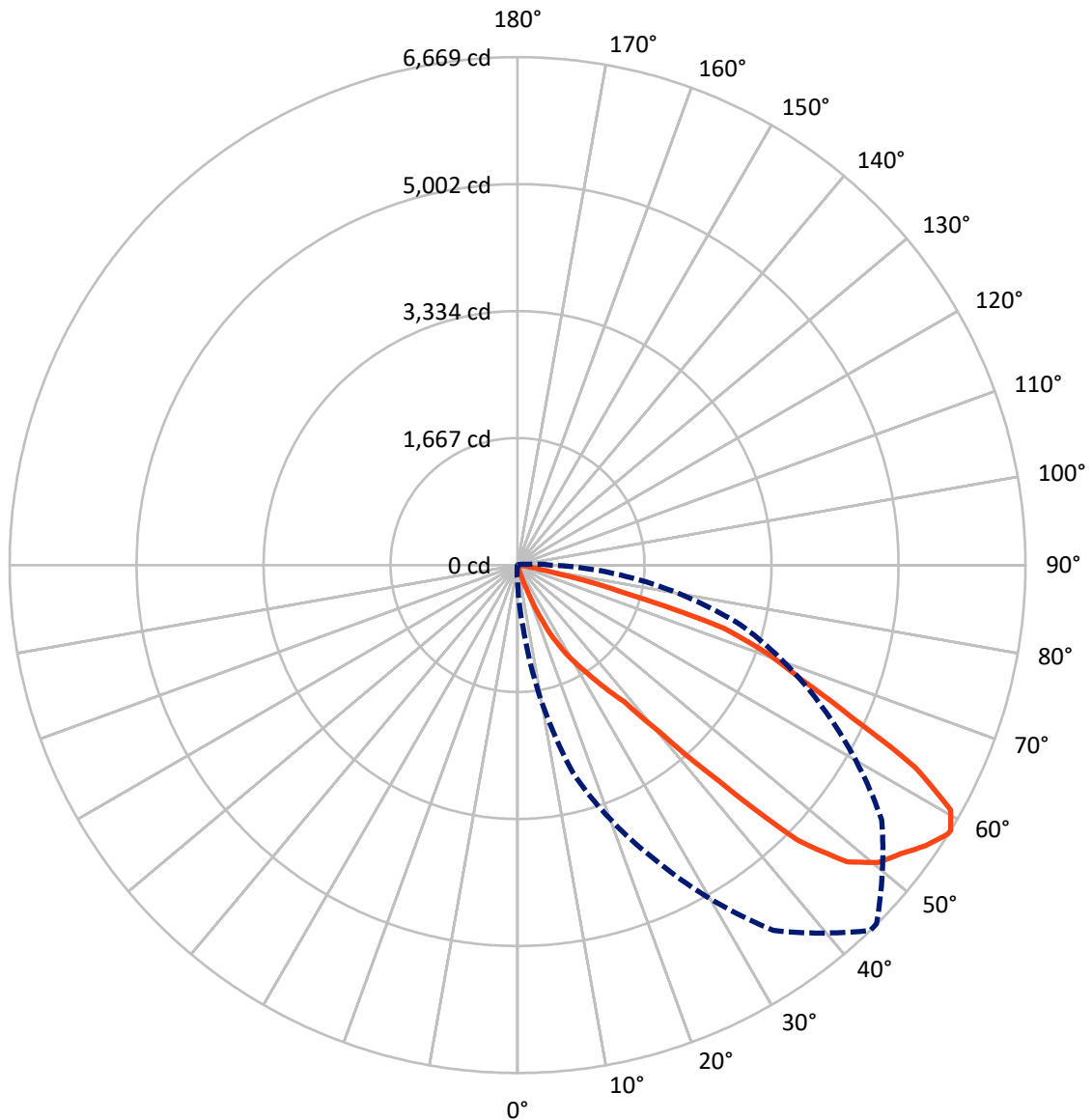


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc

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	17.7	0.0	17.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	2581.7	0.0	2581.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	2599.5	0.0	2599.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.0
10°-20°	5.7	0.2
20°-30°	61.6	2.4
30°-40°	182.1	7.0
40°-50°	542.8	20.9
50°-60°	861.3	33.1
60°-70°	718.4	27.6
70°-80°	221.6	8.5
80°-90°	4.9	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°	2599.5	100.0
0°-180°	2599.5	100.0



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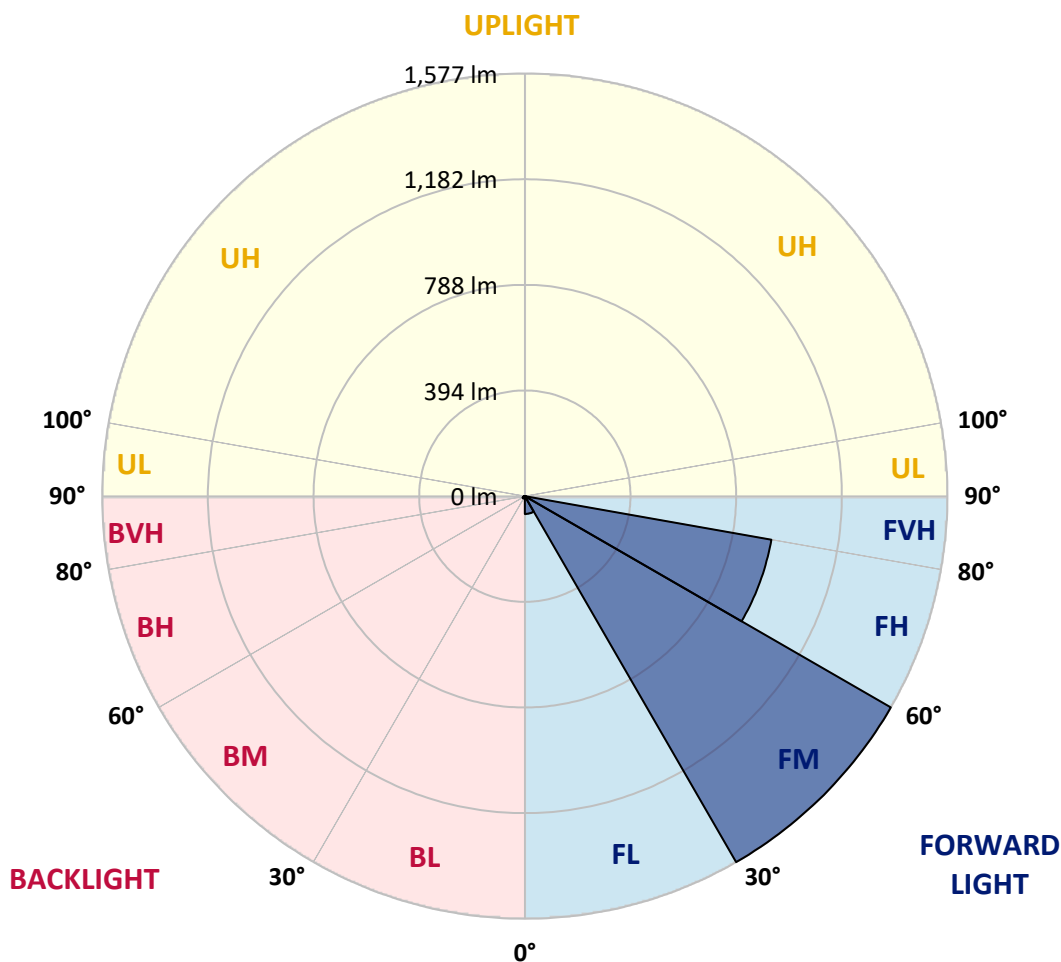
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	66.6	2.6			
FM	(30°-60°)	1576.5	60.6			
FH	(60°-80°)	934.0	35.9			G1/1800
FVH	(80°-90°)	4.7	0.2			G0/10
BL	(0°-30°)	1.7	0.1	B0/110		
BM	(30°-60°)	9.7	0.4	B0/220		
BH	(60°-80°)	6.1	0.2	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
2.5°	14.7	14.7	14.1	13.4	12.6	11.8	11.6	11.2	11.0	10.8
5°	15.3	15.3	15.1	14.5	13.7	13.2	13.2	12.6	12.2	11.8
7.5°	15.7	15.9	16.3	16.1	15.7	15.1	15.1	14.7	14.1	13.2
10°	16.3	16.9	17.7	18.1	18.3	18.3	18.1	17.9	16.9	15.5
12.5°	16.9	18.1	20.0	22.0	23.2	24.7	24.5	24.2	21.6	18.7
15°	18.1	19.8	24.0	29.7	38.5	44.0	46.1	44.2	35.7	25.1
17.5°	19.4	22.4	34.8	62.1	101.7	120.6	132.0	122.7	81.3	47.7
20°	20.8	27.3	64.6	160.8	263.9	325.6	342.7	316.0	202.8	90.9
22.5°	23.2	38.3	131.0	332.5	568.7	661.2	678.7	593.2	383.1	179.5
25°	28.1	55.6	225.8	541.8	848.7	1004.8	997.6	885.6	621.5	286.7
27.5°	35.2	80.9	341.5	769.8	1117.0	1254.6	1271.1	1132.7	828.5	421.6
30°	45.4	112.1	465.6	952.4	1332.0	1480.8	1483.6	1340.4	1013.7	540.0
32.5°	55.2	141.6	574.2	1128.9	1543.9	1707.0	1719.2	1543.1	1151.9	663.3
35°	62.6	160.8	684.2	1284.1	1757.5	1982.4	1981.6	1772.4	1315.7	773.5
37.5°	63.2	180.1	783.7	1442.7	2028.1	2279.9	2304.8	2074.3	1513.6	909.8
40°	61.9	201.7	909.8	1690.2	2515.7	2902.0	2923.9	2633.3	1910.7	1143.1
42.5°	63.4	239.2	1114.4	2147.1	3325.3	3880.1	3922.5	3616.9	2640.6	1619.1
45°	71.7	309.7	1543.1	2911.6	4479.4	5155.7	5141.5	4701.5	3489.9	2343.7
47.5°	99.0	482.3	2178.5	3655.6	5217.0	5819.2	5831.4	5293.5	3985.5	2900.8
50°	152.2	738.0	2712.5	4048.9	5534.1	6138.3	6126.9	5505.4	4173.8	3175.1
52.5°	197.9	922.9	2980.3	4187.0	5574.7	6296.0	6295.2	5561.2	4203.1	3198.7
55°	209.3	936.9	2982.5	4194.5	5665.9	6502.4	6528.3	5698.4	4241.0	3095.8
57.5°	204.8	829.5	2858.0	4237.7	5828.1	6662.0	6663.4	5831.4	4337.2	3032.7
58°	200.9	812.6	2832.8	4262.2	5855.9	6668.7	6665.4	5837.5	4415.6	3030.4
60°	178.9	705.6	2734.8	4324.8	5814.5	6531.6	6500.4	5704.5	4404.0	3006.2
62.5°	140.6	550.4	2638.4	4252.4	5370.3	5868.1	5881.1	5050.4	4014.8	2865.4
65°	111.9	410.2	2437.3	3730.0	4422.2	4818.9	4867.2	4106.9	3351.0	2426.3
67.5°	89.2	296.5	2044.6	2969.7	3499.3	4021.8	4057.0	3448.1	2596.2	1859.0
70°	72.5	200.5	1411.3	2171.8	2886.2	3473.8	3475.9	2864.4	1937.8	1218.1
72.5°	64.2	138.8	819.3	1583.9	2340.3	2830.7	2773.5	2324.4	1489.3	721.5
75°	55.6	92.1	401.8	968.3	1419.0	1428.6	1450.4	1078.3	744.4	343.1
77.5°	45.8	65.4	158.3	264.5	425.5	544.7	565.0	428.1	247.6	84.4
80°	31.4	31.0	42.6	81.1	121.7	152.6	142.4	110.2	64.8	32.4
82.5°	13.5	14.7	19.2	23.2	18.9	18.3	17.5	11.2	8.6	6.7
85°	4.3	3.9	4.1	4.1	3.3	2.6	2.6	1.2	0.0	0.0
87.5°	2.2	1.8	1.8	1.6	1.0	0.4	0.2	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°
11.4	0°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
10.6	2.5°	10.4	10.4	10.0	9.6	9.4	9.0	8.8	8.6	8.4	8.2
11.4	5°	11.0	10.8	10.2	9.6	9.0	8.4	8.1	7.7	7.3	7.1
12.6	7.5°	12.0	11.6	10.4	9.4	8.6	7.9	7.5	6.9	6.5	5.9
13.9	10°	13.2	12.4	10.8	9.6	8.4	7.5	6.9	6.3	5.7	4.9
15.9	12.5°	14.7	13.4	11.4	9.4	8.1	6.9	6.3	5.5	4.9	4.3
18.5	15°	16.1	14.3	11.6	9.4	7.7	6.3	5.5	4.7	4.1	3.3
23.2	17.5°	18.1	15.1	11.4	8.8	7.1	5.5	4.7	4.1	3.1	2.0
34.4	20°	21.4	15.7	11.0	8.2	6.1	4.5	3.5	2.7	1.4	0.4
51.6	22.5°	26.7	17.3	10.6	7.5	5.3	3.5	2.4	1.0	0.0	0.0
78.5	25°	36.9	20.0	10.6	7.1	4.7	2.6	0.8	0.0	0.0	0.0
111.5	27.5°	49.1	23.8	10.6	6.1	3.7	1.4	0.0	0.0	0.0	0.0
152.0	30°	61.5	27.9	10.6	5.3	2.9	0.2	0.0	0.0	0.0	0.0
187.1	32.5°	73.2	31.4	10.8	4.5	2.0	0.0	0.0	0.0	0.0	0.0
235.8	35°	85.2	32.0	10.6	3.9	1.2	0.0	0.0	0.0	0.0	0.0
295.5	37.5°	100.5	30.8	10.0	3.5	0.6	0.0	0.0	0.0	0.0	0.0
388.8	40°	123.7	31.4	9.4	3.3	0.2	0.0	0.0	0.0	0.0	0.0
555.1	42.5°	166.5	34.0	8.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
884.3	45°	287.9	45.6	7.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
1327.5	47.5°	476.2	81.9	7.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0
1599.0	50°	607.8	103.1	8.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0
1633.0	52.5°	606.8	114.9	8.4	3.9	0.8	0.0	0.0	0.0	0.0	0.0
1505.2	55°	539.4	117.0	9.0	4.3	2.6	0.0	0.0	0.0	0.0	0.0
1293.5	57.5°	450.9	106.8	10.4	5.3	4.7	0.0	0.0	0.0	0.0	0.0
1260.3	58°	435.2	102.1	10.8	5.5	5.1	0.0	0.0	0.0	0.0	0.0
1093.2	60°	356.6	83.3	13.7	6.9	6.9	0.0	0.0	0.0	0.0	0.0
896.2	62.5°	246.2	72.7	15.7	8.8	7.1	0.0	0.0	0.0	0.0	0.0
660.8	65°	174.2	65.6	17.1	9.4	5.7	0.0	0.0	0.0	0.0	0.0
469.5	67.5°	130.2	60.5	18.9	9.6	2.9	0.0	0.0	0.0	0.0	0.0
294.6	70°	99.8	56.8	23.2	10.2	0.8	0.0	0.0	0.0	0.0	0.0
175.6	72.5°	81.3	52.4	28.1	10.6	0.0	0.0	0.0	0.0	0.0	0.0
105.3	75°	67.4	47.3	27.1	11.6	0.0	0.0	0.0	0.0	0.0	0.0
56.2	77.5°	44.8	36.7	24.7	11.6	0.0	0.0	0.0	0.0	0.0	0.0
20.0	80°	15.7	14.5	19.2	10.2	0.0	0.0	0.0	0.0	0.0	0.0
4.1	82.5°	2.4	2.0	2.7	3.5	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°
11.4	0°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
8.1	2.5°	8.1	8.1	7.9	8.1	8.1	8.4	9.4	10.8	12.4	13.0
6.9	5°	6.7	6.5	6.3	6.3	6.3	6.9	7.7	9.2	11.0	11.8
5.7	7.5°	5.5	5.3	5.1	4.9	4.9	5.3	6.3	8.1	9.8	10.6
4.7	10°	4.5	4.1	3.9	3.7	3.7	4.1	5.1	6.9	8.8	9.6
3.9	12.5°	3.7	3.1	2.7	2.6	2.4	2.9	3.9	5.5	7.7	8.6
2.9	15°	2.6	2.0	1.4	1.2	1.0	1.6	2.6	4.3	6.5	7.7
1.6	17.5°	1.4	0.6	0.2	0.0	0.0	0.4	1.2	3.1	5.3	6.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.9	4.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.4	3.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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	0.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6
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°
11.4	0°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
13.5	2.5°	13.9	13.7	13.4	13.0	13.0	13.0	13.5	14.1	14.7	14.7
12.2	5°	13.0	13.0	12.8	12.4	12.4	12.6	13.4	14.3	15.1	15.3
11.2	7.5°	12.0	12.4	12.0	11.8	12.0	12.2	13.0	14.1	15.3	15.7
10.4	10°	11.4	11.6	11.6	11.4	11.4	11.8	12.6	14.1	15.7	16.3
9.4	12.5°	10.6	11.0	10.8	10.8	10.8	11.2	12.2	13.9	16.1	16.9
8.4	15°	9.8	10.4	10.4	10.2	10.2	10.4	11.8	13.7	16.7	18.1
7.3	17.5°	9.0	9.6	9.8	9.4	9.4	9.8	11.2	13.7	17.1	19.4
5.9	20°	7.5	8.4	9.0	8.4	8.4	8.8	10.2	13.0	17.3	20.8
4.3	22.5°	5.9	6.9	7.7	7.5	7.5	7.7	9.4	12.4	17.5	23.2
2.6	25°	4.3	5.3	5.9	6.3	6.3	6.9	8.6	12.0	18.3	28.1
1.2	27.5°	2.6	3.7	4.5	4.9	5.1	5.9	8.1	11.6	19.6	35.2
0.0	30°	1.2	2.2	3.1	3.9	3.9	5.3	7.5	11.2	21.4	45.4
0.0	32.5°	0.0	1.0	1.6	2.7	2.9	4.3	6.9	10.8	24.0	55.2
0.0	35°	0.0	0.0	0.8	2.2	2.2	3.5	6.3	10.4	27.9	62.6
0.0	37.5°	0.0	0.0	0.0	1.6	1.8	3.1	6.1	10.2	28.7	63.2
0.0	40°	0.0	0.0	0.0	1.2	1.4	2.9	6.1	10.4	25.9	61.9
0.0	42.5°	0.0	0.0	0.0	0.8	1.0	2.9	6.1	10.8	23.4	63.4
0.0	45°	0.0	0.0	0.0	0.6	0.8	3.1	5.9	10.6	22.0	71.7
0.0	47.5°	0.0	0.0	0.0	0.8	1.2	3.1	5.7	10.4	22.2	99.0
0.0	50°	0.0	0.0	0.0	1.0	1.4	3.1	5.9	10.0	24.3	152.2
0.0	52.5°	0.0	0.0	0.0	0.8	1.2	3.5	6.5	9.8	26.5	197.9
0.0	55°	0.0	0.0	0.0	0.2	0.6	4.5	7.1	9.8	29.8	209.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	5.1	8.1	10.4	35.3	204.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	5.1	8.2	10.4	35.7	200.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	5.1	9.0	11.6	38.5	178.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	4.3	10.8	14.5	40.1	140.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	3.5	12.8	15.9	41.2	111.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	3.3	13.2	16.1	41.8	89.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	3.5	13.0	17.3	43.8	72.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	3.9	11.8	19.0	43.8	64.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	4.1	11.0	21.4	39.9	55.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	3.9	10.8	24.9	35.5	45.8
0.0	80°	0.4	0.6	0.6	0.4	0.4	3.3	10.6	25.3	30.2	31.4
0.2	82.5°	1.2	1.6	1.4	1.0	1.0	2.9	9.4	21.2	15.7	13.5
1.2	85°	2.2	2.6	2.6	2.2	2.2	2.7	5.9	7.7	5.3	4.3
2.2	87.5°	2.9	3.3	3.3	2.9	2.9	2.7	2.6	2.4	2.2	2.2
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: SP1-2407-184-13

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-927-U-5WQ

Data in this report applies to families of products including GSS-SB1A-927-U-5WQ

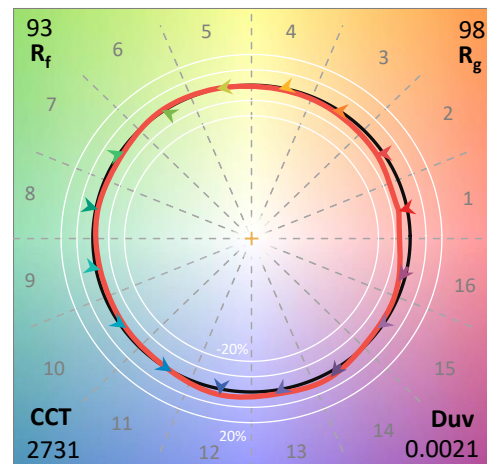
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-13
 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-927-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2731
 CIE u' : 0.2605
 CIE v' : 0.5298
 Duv: 0.0021
 CIE x: 0.4610
 CIE y: 0.4166
 CIE z: 0.1224
 Peak Wavelength (nm): 622
 Dominant Wavelength (nm): 583
 Purity: 63.43685
 R_f: 92.6
 R_g: 98

CRI (Ra): 91.8
 R1: 91.4
 R2: 95.1
 R3: 97.6
 R4: 92.3
 R5: 91.1
 R6: 94.7
 R7: 92.3
 R8: 80.0
 R9: 54.7
 R10: 87.7
 R11: 92.9
 R12: 84.0
 R13: 92.2
 R14: 97.8
 R15: 86.8



Test Conditions

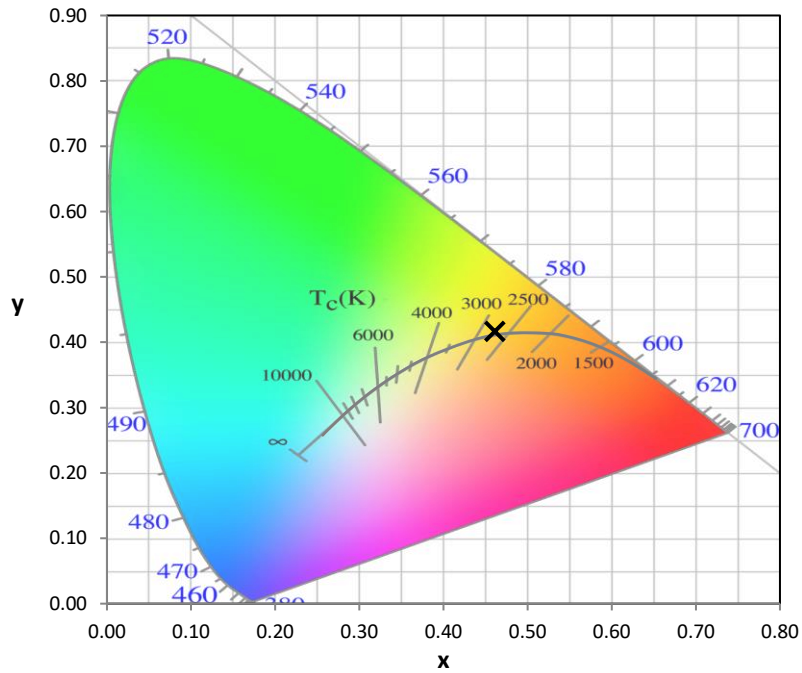
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

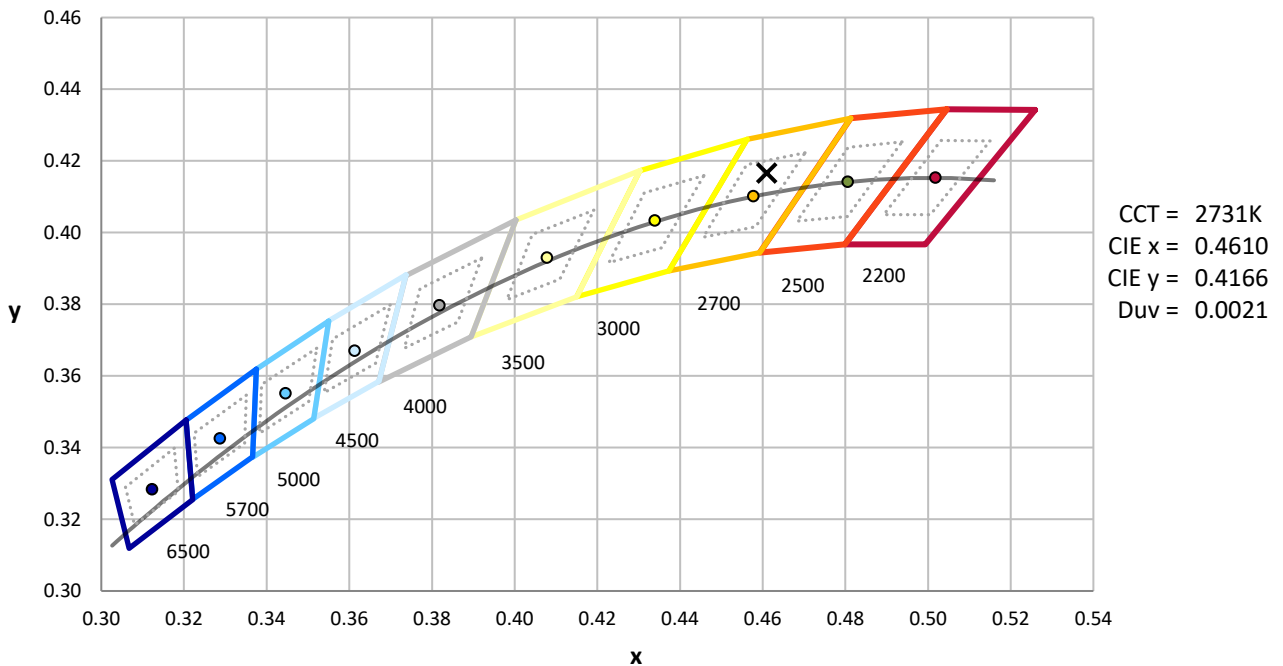
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



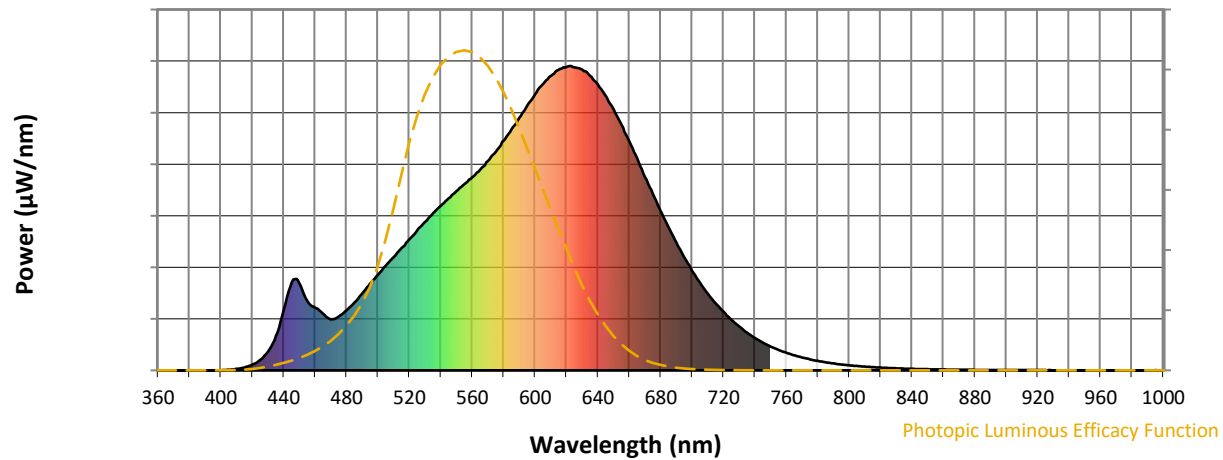
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

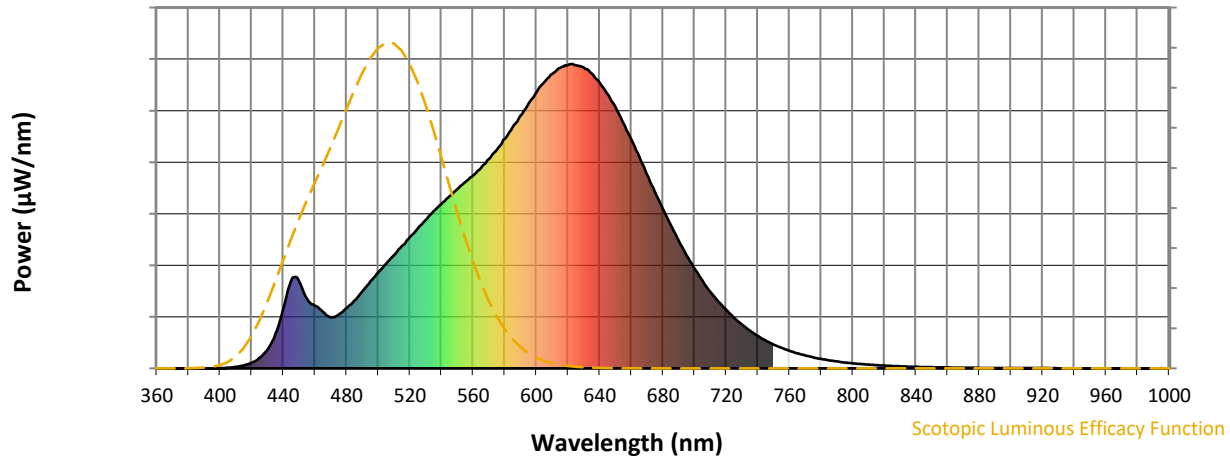


Photopic Lumens: NR

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

Scotopic Flux vs. Wavelength



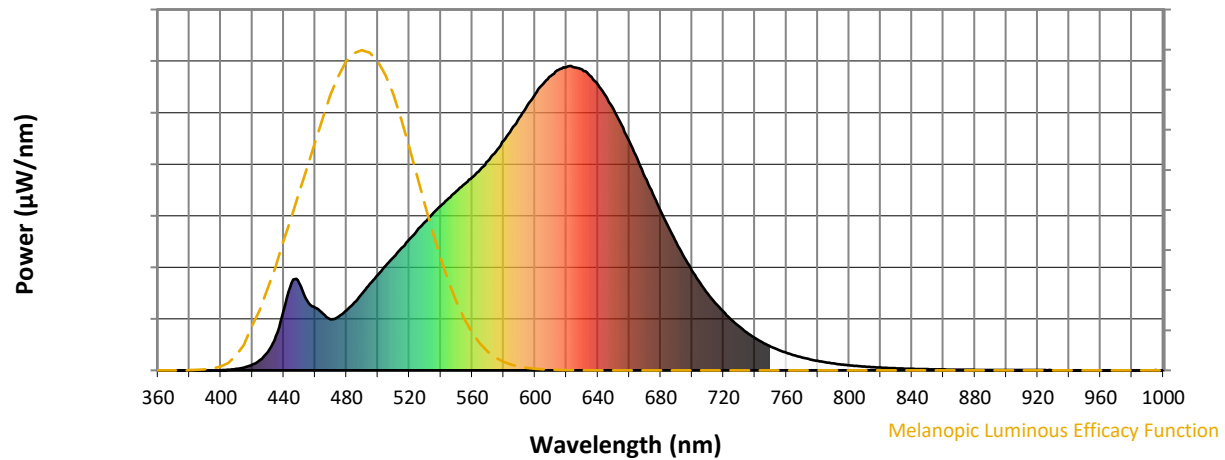
Scotopic Lumens: NR

S/P: 1.27

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.38

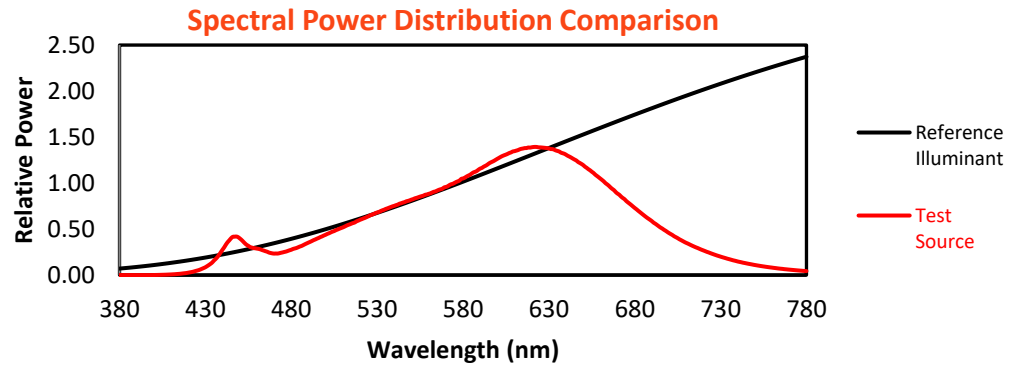
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

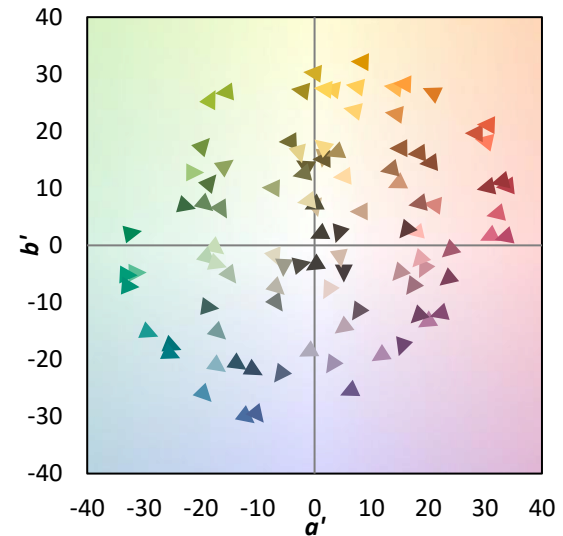
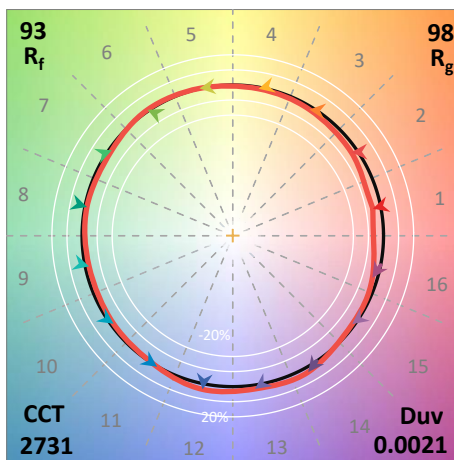
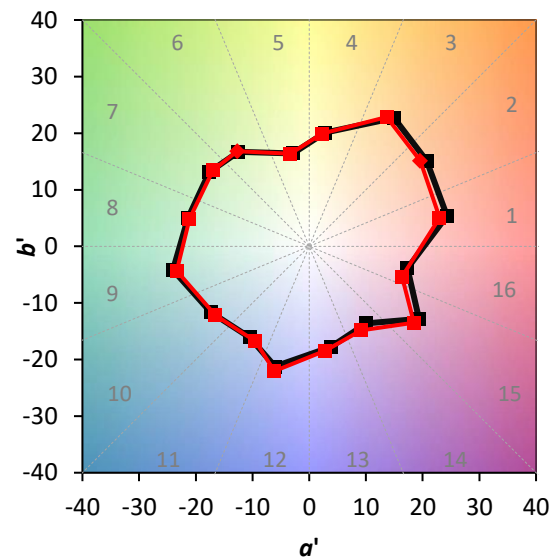
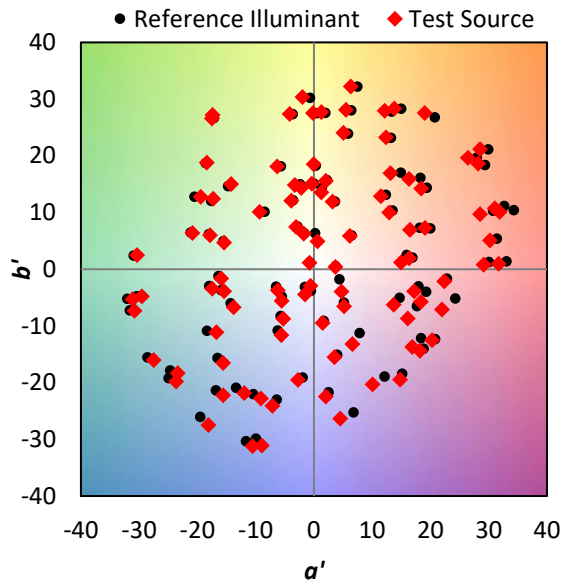
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98$
 $CIE R_a = 91.8$
 $R_9 = 54.7$

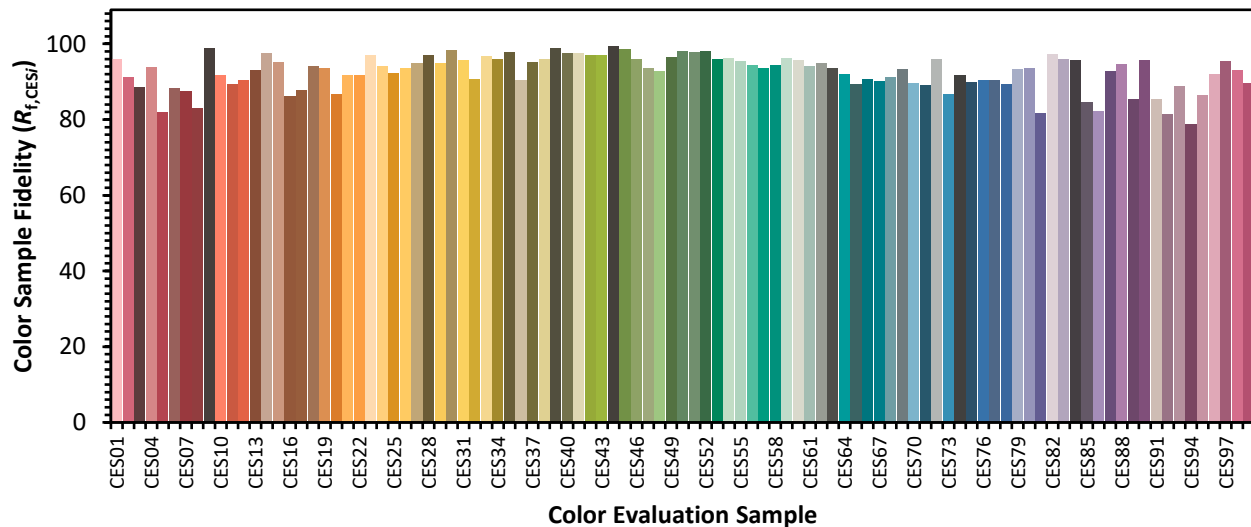


Color Vector Graphics

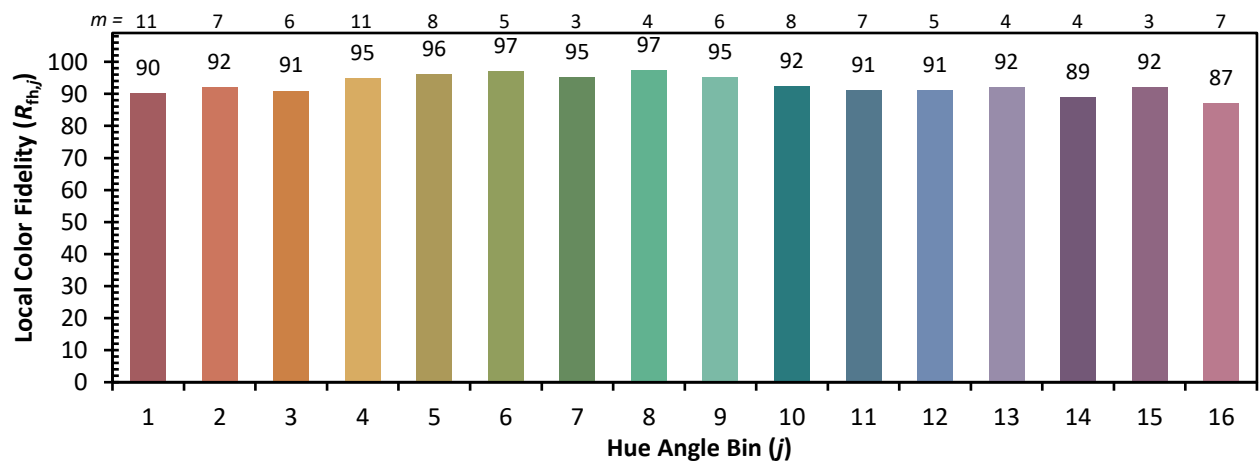
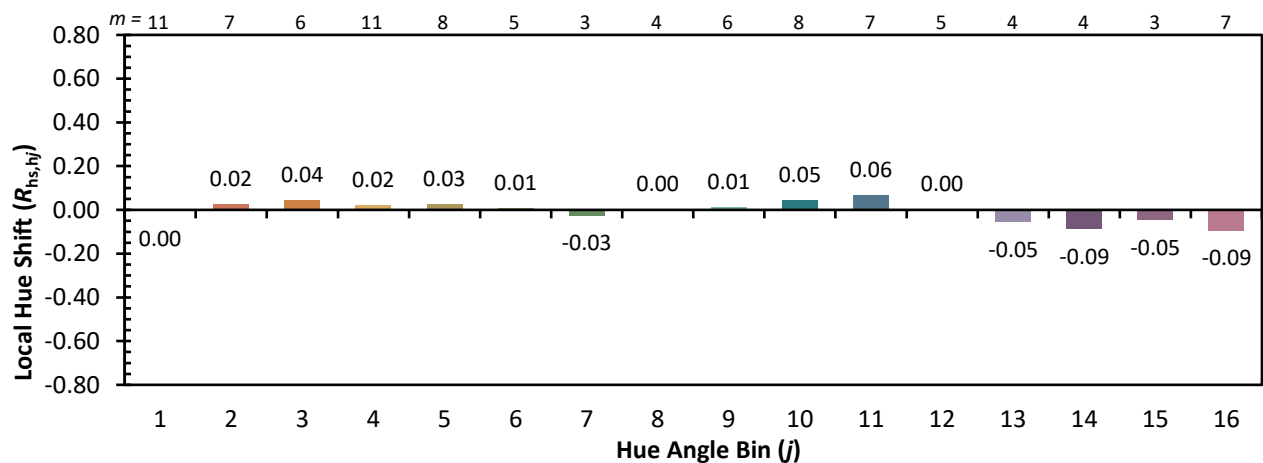
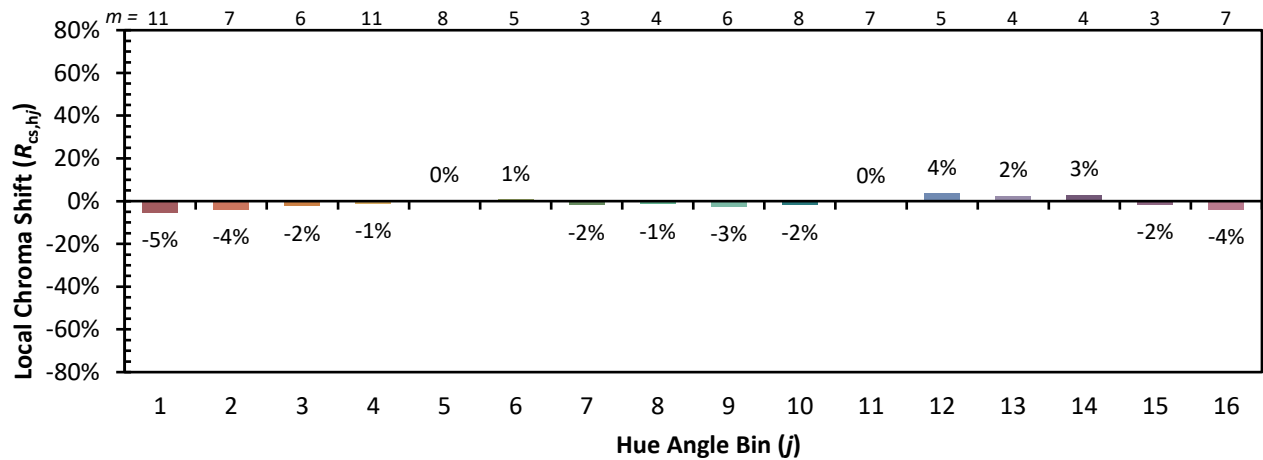


Individual Sample Fidelity Index ($R_{f,i}$)

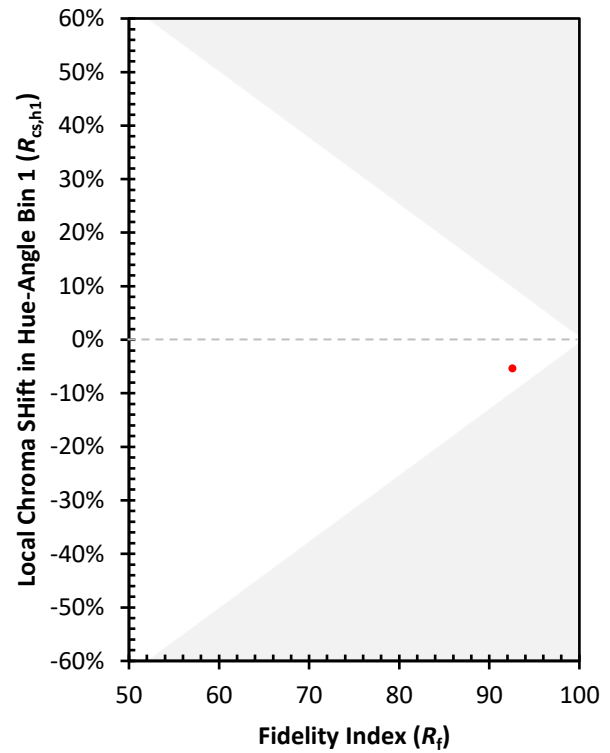
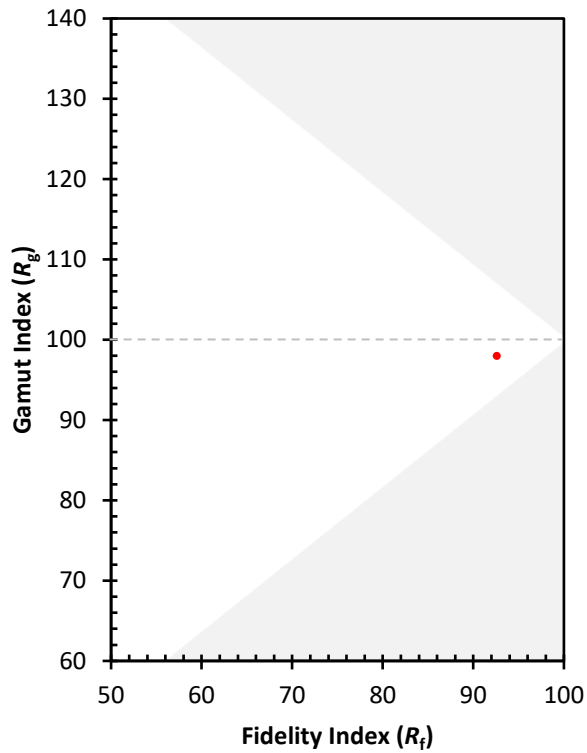
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 64	CES27 = 95	CES52 = 98	CES77 = 90
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 89
CES04 = 71	CES29 = 95	CES54 = 96	CES79 = 93
CES05 = 51	CES30 = 98	CES55 = 95	CES80 = 94
CES06 = 52	CES31 = 96	CES56 = 94	CES81 = 82
CES07 = 44	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 43	CES33 = 97	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 96	CES59 = 96	CES84 = 96
CES10 = 77	CES35 = 98	CES60 = 96	CES85 = 85
CES11 = 59	CES36 = 90	CES61 = 94	CES86 = 82
CES12 = 66	CES37 = 95	CES62 = 95	CES87 = 93
CES13 = 44	CES38 = 96	CES63 = 94	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 85
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 91	CES91 = 85
CES17 = 50	CES42 = 97	CES67 = 90	CES92 = 82
CES18 = 57	CES43 = 97	CES68 = 91	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 93	CES94 = 79
CES20 = 68	CES45 = 99	CES70 = 90	CES95 = 87
CES21 = 87	CES46 = 96	CES71 = 89	CES96 = 92
CES22 = 79	CES47 = 94	CES72 = 96	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 87	CES98 = 93
CES24 = 91	CES49 = 96	CES74 = 92	CES99 = 90
CES25 = 72	CES50 = 98	CES75 = 90	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)