

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: P1049605

Luminaire Tested: **GALN-SA1A-735-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049605
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 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: 3273.6 lumens
Efficiency: N/A
Efficacy: 112.9 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): 29
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

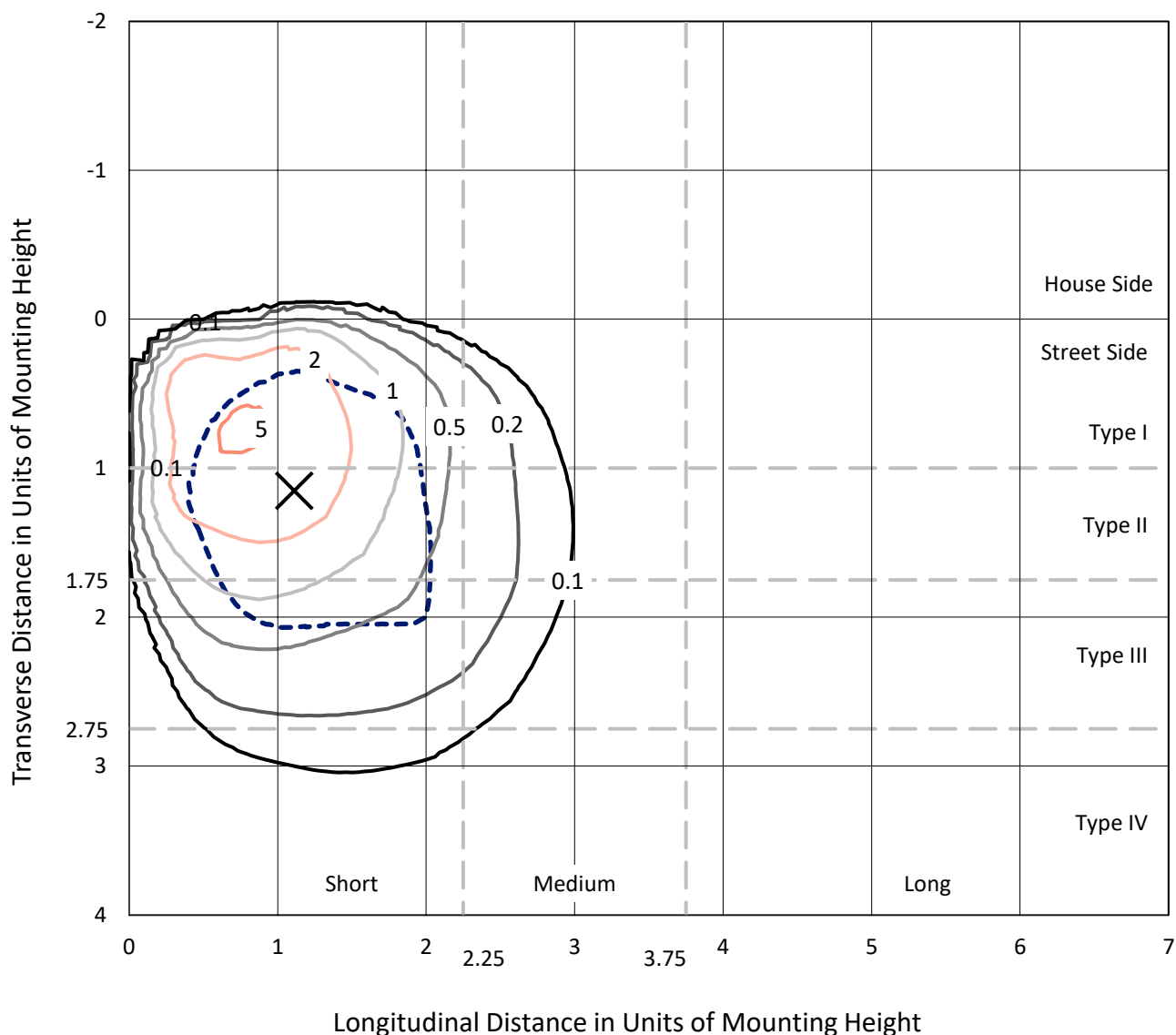
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

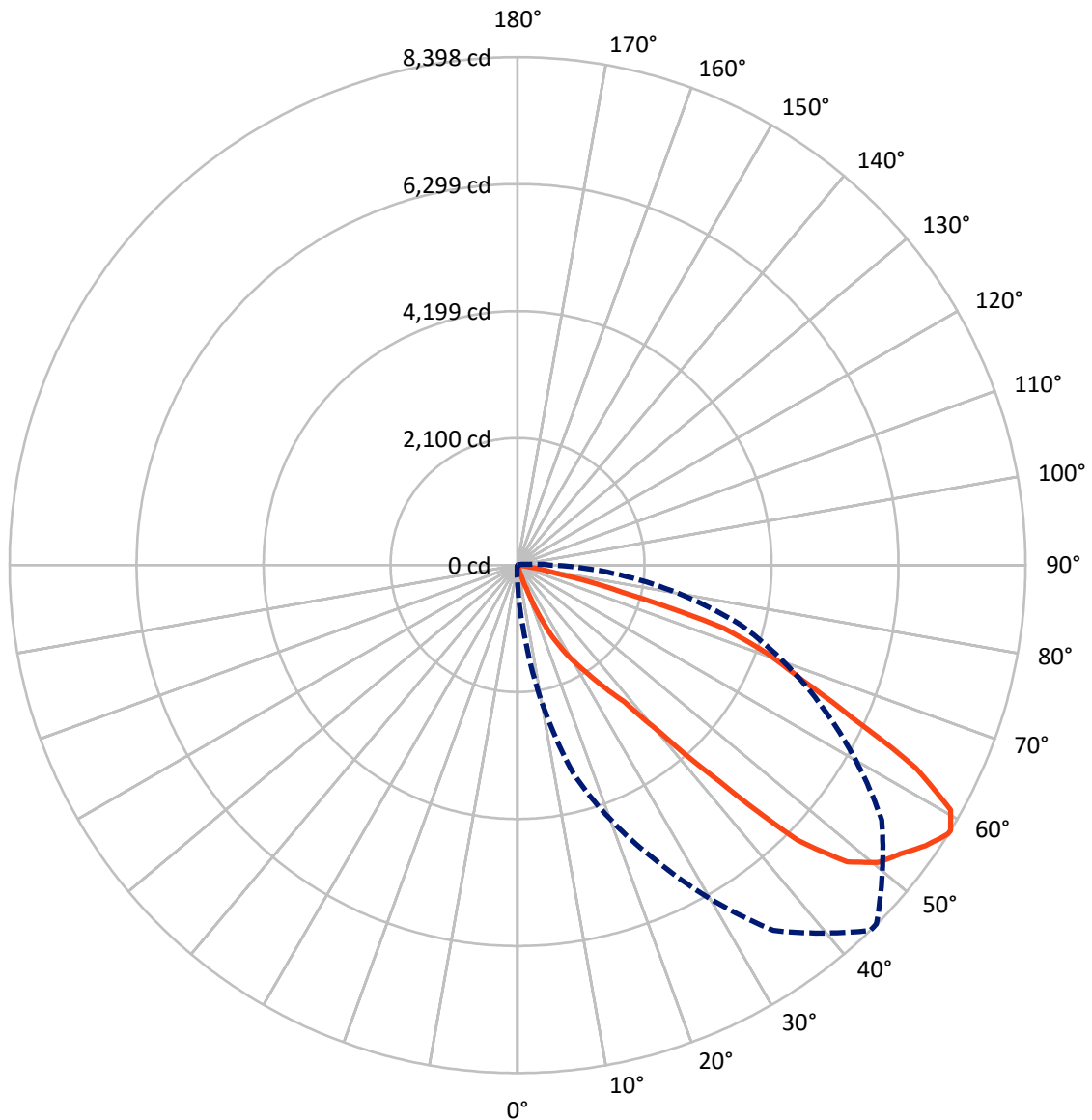


Based on 20 foot mounting height. Maximum calculated value = 5.7 fc

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	22.4	0.0	22.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	3251.2	0.0	3251.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	3273.6	0.0	3273.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.0
10°-20°	7.2	0.2
20°-30°	77.6	2.4
30°-40°	229.3	7.0
40°-50°	683.6	20.9
50°-60°	1084.7	33.1
60°-70°	904.7	27.6
70°-80°	279.0	8.5
80°-90°	6.2	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°	3273.6	100.0
0°-180°	3273.6	100.0



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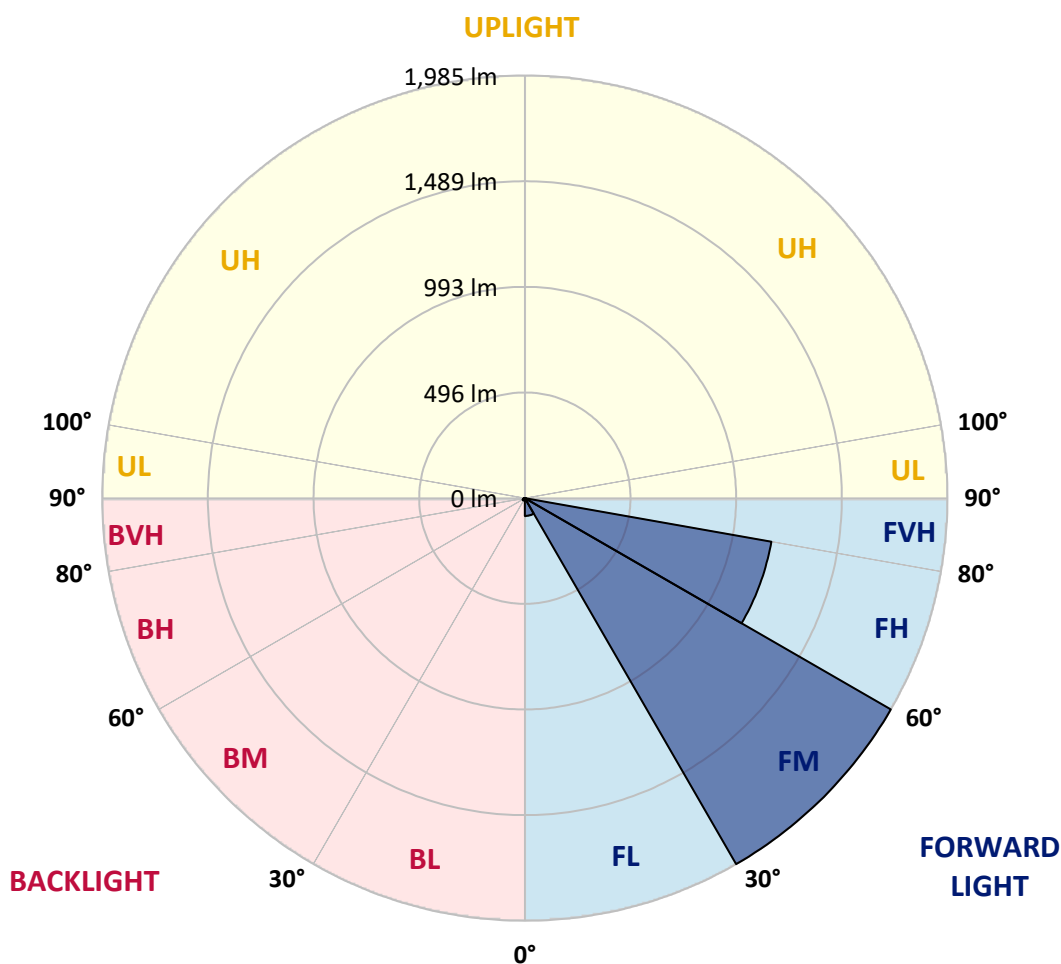
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	83.8	2.6			
FM	(30°-60°)	1985.4	60.6			
FH	(60°-80°)	1176.2	35.9			G1/1800
FVH	(80°-90°)	5.9	0.2			G0/10
BL	(0°-30°)	2.2	0.1	B0/110		
BM	(30°-60°)	12.2	0.4	B0/220		
BH	(60°-80°)	7.6	0.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
2.5°	18.5	18.5	17.8	16.8	15.8	14.8	14.6	14.1	13.8	13.6
5°	19.3	19.3	19.0	18.3	17.3	16.6	16.6	15.8	15.3	14.8
7.5°	19.8	20.0	20.5	20.3	19.8	19.0	19.0	18.5	17.8	16.6
10°	20.5	21.3	22.3	22.8	23.0	23.0	22.8	22.5	21.3	19.5
12.5°	21.3	22.8	25.2	27.7	29.2	31.2	30.9	30.4	27.2	23.5
15°	22.8	25.0	30.2	37.3	48.5	55.4	58.1	55.6	45.0	31.7
17.5°	24.5	28.2	43.8	78.1	128.1	151.8	166.2	154.6	102.4	60.1
20°	26.2	34.4	81.4	202.5	332.4	410.0	431.5	397.9	255.5	114.5
22.5°	29.2	48.2	164.9	418.7	716.2	832.6	854.6	747.1	482.5	226.0
25°	35.4	70.0	284.4	682.3	1068.8	1265.4	1256.2	1115.3	782.7	361.0
27.5°	44.3	101.9	430.0	969.4	1406.6	1579.9	1600.7	1426.4	1043.3	530.9
30°	57.1	141.2	586.3	1199.4	1677.4	1864.8	1868.3	1688.0	1276.5	680.1
32.5°	69.5	178.3	723.1	1421.7	1944.2	2149.7	2165.0	1943.2	1450.6	835.4
35°	78.9	202.5	861.6	1617.0	2213.3	2496.4	2495.4	2232.1	1656.9	974.1
37.5°	79.6	226.8	986.9	1816.9	2554.0	2871.1	2902.5	2612.1	1906.1	1145.7
40°	77.9	254.0	1145.7	2128.4	3168.1	3654.5	3682.2	3316.2	2406.2	1439.5
42.5°	79.9	301.2	1403.4	2703.9	4187.6	4886.2	4939.7	4554.9	3325.3	2038.9
45°	90.3	390.0	1943.2	3666.6	5641.0	6492.6	6474.8	5920.7	4394.9	2951.4
47.5°	124.6	607.3	2743.5	4603.6	6569.8	7328.2	7343.6	6666.2	5019.0	3653.0
50°	191.7	929.3	3415.8	5098.9	6969.2	7730.1	7715.8	6933.1	5256.2	3998.5
52.5°	249.3	1162.3	3753.1	5272.8	7020.4	7928.7	7927.7	7003.3	5293.0	4028.1
55°	263.6	1179.8	3755.9	5282.2	7135.1	8188.6	8221.2	7176.2	5340.8	3898.6
57.5°	257.9	1044.6	3599.1	5336.6	7339.4	8389.6	8391.4	7343.6	5461.9	3819.2
58°	253.0	1023.3	3567.4	5367.5	7374.5	8398.0	8393.8	7351.2	5560.6	3816.2
60°	225.3	888.5	3444.0	5446.4	7322.3	8225.4	8186.1	7183.8	5546.0	3785.8
62.5°	177.1	693.2	3322.6	5355.1	6762.9	7389.8	7406.1	6360.1	5055.9	3608.5
65°	141.0	516.6	3069.4	4697.3	5569.0	6068.5	6129.4	5171.9	4220.0	3055.5
67.5°	112.3	373.4	2574.8	3739.8	4406.7	5064.8	5109.1	4342.2	3269.4	2341.1
70°	91.3	252.5	1777.3	2735.0	3634.7	4374.6	4377.3	3607.2	2440.3	1534.0
72.5°	80.9	174.8	1031.7	1994.7	2947.2	3564.7	3492.8	2927.2	1875.5	908.6
75°	70.0	116.0	506.0	1219.4	1786.9	1799.0	1826.5	1357.9	937.5	432.0
77.5°	57.6	82.3	199.3	333.1	535.9	686.0	711.5	539.1	311.8	106.3
80°	39.6	39.1	53.7	102.1	153.3	192.1	179.3	138.7	81.6	40.8
82.5°	17.1	18.5	24.2	29.2	23.7	23.0	22.0	14.1	10.9	8.4
85°	5.4	4.9	5.2	5.2	4.2	3.2	3.2	1.5	0.0	0.0
87.5°	2.7	2.2	2.2	2.0	1.2	0.5	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°
14.3	0°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
13.4	2.5°	13.1	13.1	12.6	12.1	11.9	11.4	11.1	10.9	10.6	10.4
14.3	5°	13.8	13.6	12.9	12.1	11.4	10.6	10.1	9.6	9.1	8.9
15.8	7.5°	15.1	14.6	13.1	11.9	10.9	9.9	9.4	8.7	8.2	7.4
17.6	10°	16.6	15.6	13.6	12.1	10.6	9.4	8.7	7.9	7.2	6.2
20.0	12.5°	18.5	16.8	14.3	11.9	10.1	8.7	7.9	6.9	6.2	5.4
23.2	15°	20.3	18.1	14.6	11.9	9.6	7.9	6.9	5.9	5.2	4.2
29.2	17.5°	22.8	19.0	14.3	11.1	8.9	6.9	5.9	5.2	4.0	2.5
43.3	20°	27.0	19.8	13.8	10.4	7.7	5.7	4.5	3.5	1.7	0.5
65.0	22.5°	33.6	21.8	13.4	9.4	6.7	4.5	3.0	1.2	0.0	0.0
98.9	25°	46.5	25.2	13.4	8.9	5.9	3.2	1.0	0.0	0.0	0.0
140.5	27.5°	61.8	29.9	13.4	7.7	4.7	1.7	0.0	0.0	0.0	0.0
191.4	30°	77.4	35.1	13.4	6.7	3.7	0.2	0.0	0.0	0.0	0.0
235.7	32.5°	92.2	39.6	13.6	5.7	2.5	0.0	0.0	0.0	0.0	0.0
297.0	35°	107.3	40.3	13.4	4.9	1.5	0.0	0.0	0.0	0.0	0.0
372.2	37.5°	126.6	38.8	12.6	4.5	0.7	0.0	0.0	0.0	0.0	0.0
489.6	40°	155.8	39.6	11.9	4.2	0.2	0.0	0.0	0.0	0.0	0.0
699.1	42.5°	209.7	42.8	10.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0
1113.6	45°	362.5	57.4	9.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
1671.7	47.5°	599.7	103.1	9.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0
2013.7	50°	765.4	129.8	10.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0
2056.5	52.5°	764.1	144.7	10.6	4.9	1.0	0.0	0.0	0.0	0.0	0.0
1895.5	55°	679.3	147.4	11.4	5.4	3.2	0.0	0.0	0.0	0.0	0.0
1628.9	57.5°	567.8	134.5	13.1	6.7	5.9	0.0	0.0	0.0	0.0	0.0
1587.1	58°	548.0	128.6	13.6	6.9	6.4	0.0	0.0	0.0	0.0	0.0
1376.7	60°	449.1	104.9	17.3	8.7	8.7	0.0	0.0	0.0	0.0	0.0
1128.6	62.5°	310.1	91.5	19.8	11.1	8.9	0.0	0.0	0.0	0.0	0.0
832.1	65°	219.3	82.6	21.5	11.9	7.2	0.0	0.0	0.0	0.0	0.0
591.3	67.5°	164.0	76.2	23.7	12.1	3.7	0.0	0.0	0.0	0.0	0.0
370.9	70°	125.6	71.5	29.2	12.9	1.0	0.0	0.0	0.0	0.0	0.0
221.1	72.5°	102.4	66.0	35.4	13.4	0.0	0.0	0.0	0.0	0.0	0.0
132.5	75°	84.8	59.6	34.1	14.6	0.0	0.0	0.0	0.0	0.0	0.0
70.7	77.5°	56.4	46.2	31.2	14.6	0.0	0.0	0.0	0.0	0.0	0.0
25.2	80°	19.8	18.3	24.2	12.9	0.0	0.0	0.0	0.0	0.0	0.0
5.2	82.5°	3.0	2.5	3.5	4.5	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°
14.3	0°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
10.1	2.5°	10.1	10.1	9.9	10.1	10.1	10.6	11.9	13.6	15.6	16.3
8.7	5°	8.4	8.2	7.9	7.9	7.9	8.7	9.6	11.6	13.8	14.8
7.2	7.5°	6.9	6.7	6.4	6.2	6.2	6.7	7.9	10.1	12.4	13.4
5.9	10°	5.7	5.2	4.9	4.7	4.7	5.2	6.4	8.7	11.1	12.1
4.9	12.5°	4.7	4.0	3.5	3.2	3.0	3.7	4.9	6.9	9.6	10.9
3.7	15°	3.2	2.5	1.7	1.5	1.2	2.0	3.2	5.4	8.2	9.6
2.0	17.5°	1.7	0.7	0.2	0.0	0.0	0.5	1.5	4.0	6.7	7.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.9	6.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.0	4.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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	0.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
14.3	0°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
17.1	2.5°	17.6	17.3	16.8	16.3	16.3	16.3	17.1	17.8	18.5	18.5
15.3	5°	16.3	16.3	16.1	15.6	15.6	15.8	16.8	18.1	19.0	19.3
14.1	7.5°	15.1	15.6	15.1	14.8	15.1	15.3	16.3	17.8	19.3	19.8
13.1	10°	14.3	14.6	14.6	14.3	14.3	14.8	15.8	17.8	19.8	20.5
11.9	12.5°	13.4	13.8	13.6	13.6	13.6	14.1	15.3	17.6	20.3	21.3
10.6	15°	12.4	13.1	13.1	12.9	12.9	13.1	14.8	17.3	21.0	22.8
9.1	17.5°	11.4	12.1	12.4	11.9	11.9	12.4	14.1	17.3	21.5	24.5
7.4	20°	9.4	10.6	11.4	10.6	10.6	11.1	12.9	16.3	21.8	26.2
5.4	22.5°	7.4	8.7	9.6	9.4	9.4	9.6	11.9	15.6	22.0	29.2
3.2	25°	5.4	6.7	7.4	7.9	7.9	8.7	10.9	15.1	23.0	35.4
1.5	27.5°	3.2	4.7	5.7	6.2	6.4	7.4	10.1	14.6	24.7	44.3
0.0	30°	1.5	2.7	4.0	4.9	4.9	6.7	9.4	14.1	27.0	57.1
0.0	32.5°	0.0	1.2	2.0	3.5	3.7	5.4	8.7	13.6	30.2	69.5
0.0	35°	0.0	0.0	1.0	2.7	2.7	4.5	7.9	13.1	35.1	78.9
0.0	37.5°	0.0	0.0	0.0	2.0	2.2	4.0	7.7	12.9	36.1	79.6
0.0	40°	0.0	0.0	0.0	1.5	1.7	3.7	7.7	13.1	32.6	77.9
0.0	42.5°	0.0	0.0	0.0	1.0	1.2	3.7	7.7	13.6	29.4	79.9
0.0	45°	0.0	0.0	0.0	0.7	1.0	4.0	7.4	13.4	27.7	90.3
0.0	47.5°	0.0	0.0	0.0	1.0	1.5	4.0	7.2	13.1	27.9	124.6
0.0	50°	0.0	0.0	0.0	1.2	1.7	4.0	7.4	12.6	30.7	191.7
0.0	52.5°	0.0	0.0	0.0	1.0	1.5	4.5	8.2	12.4	33.4	249.3
0.0	55°	0.0	0.0	0.0	0.2	0.7	5.7	8.9	12.4	37.6	263.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	6.4	10.1	13.1	44.5	257.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	6.4	10.4	13.1	45.0	253.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	6.4	11.4	14.6	48.5	225.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	5.4	13.6	18.3	50.4	177.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	4.5	16.1	20.0	51.9	141.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	4.2	16.6	20.3	52.7	112.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	4.5	16.3	21.8	55.1	91.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	4.9	14.8	24.0	55.1	80.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	5.2	13.8	27.0	50.2	70.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	4.9	13.6	31.4	44.8	57.6
0.0	80°	0.5	0.7	0.7	0.5	0.5	4.2	13.4	31.9	38.1	39.6
0.2	82.5°	1.5	2.0	1.7	1.2	1.2	3.7	11.9	26.7	19.8	17.1
1.5	85°	2.7	3.2	3.2	2.7	2.7	3.5	7.4	9.6	6.7	5.4
2.7	87.5°	3.7	4.2	4.2	3.7	3.7	3.5	3.2	3.0	2.7	2.7
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: SP1-2407-184-5

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

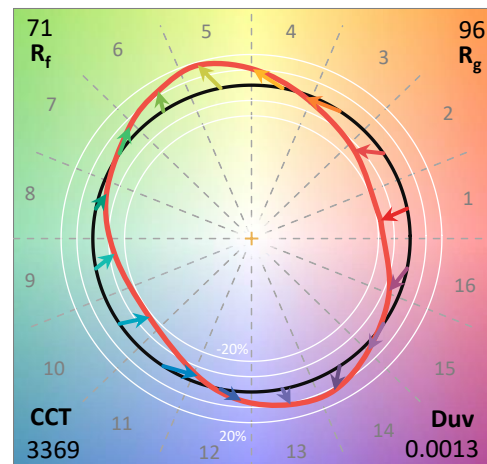
Test Information

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
 CIE u' : 0.2386
 CIE v' : 0.5156
 Duv: 0.0013
 CIE x: 0.4143
 CIE y: 0.3980
 CIE z: 0.1877
 Peak Wavelength (nm): 590
 Dominant Wavelength (nm): 580
 Purity: 43.80166
 R_f: 71.4
 R_g: 96

CRI (Ra): 70.1
 R1: 66.6
 R2: 77.6
 R3: 88.5
 R4: 69.5
 R5: 66.4
 R6: 69.6
 R7: 77.5
 R8: 44.9
 R9: -40.2
 R10: 49.1
 R11: 66.3
 R12: 45.7
 R13: 68.0
 R14: 93.4
 R15: 57.6



Test Conditions

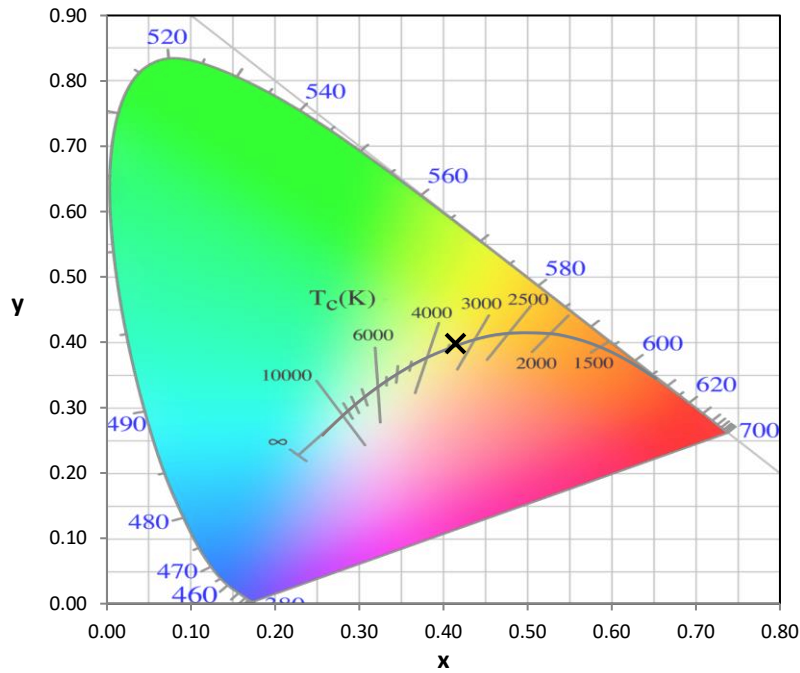
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

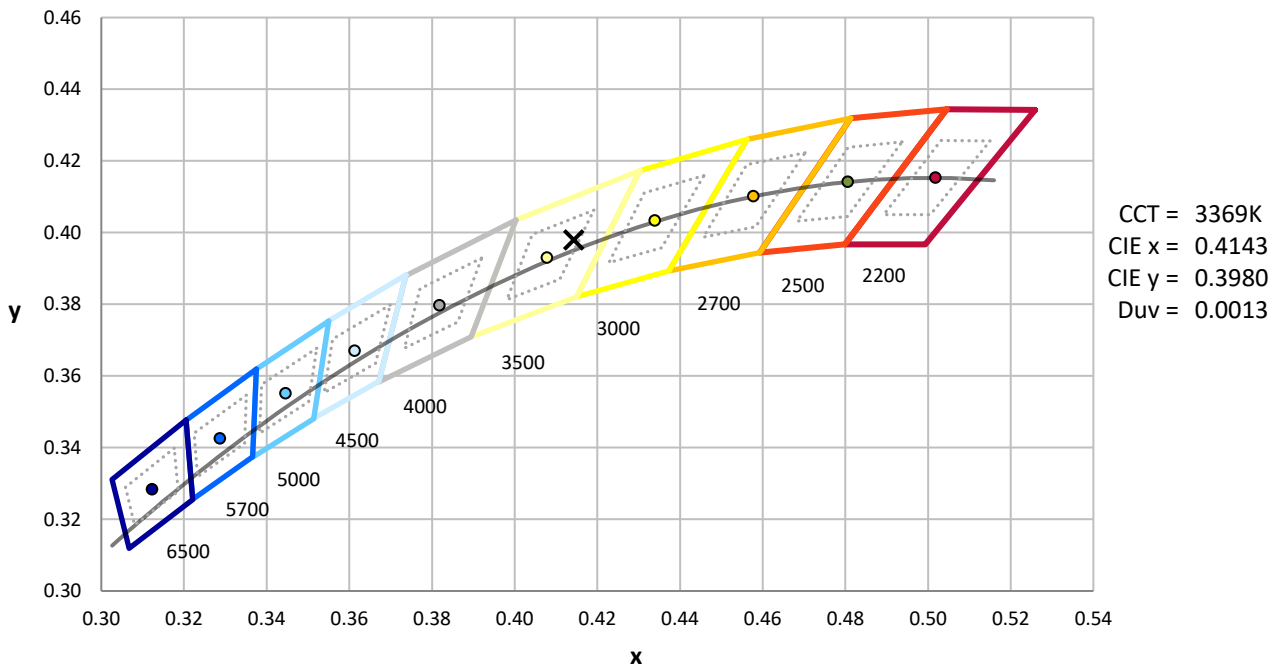
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-5

CIE 1931 Chromaticity Diagram



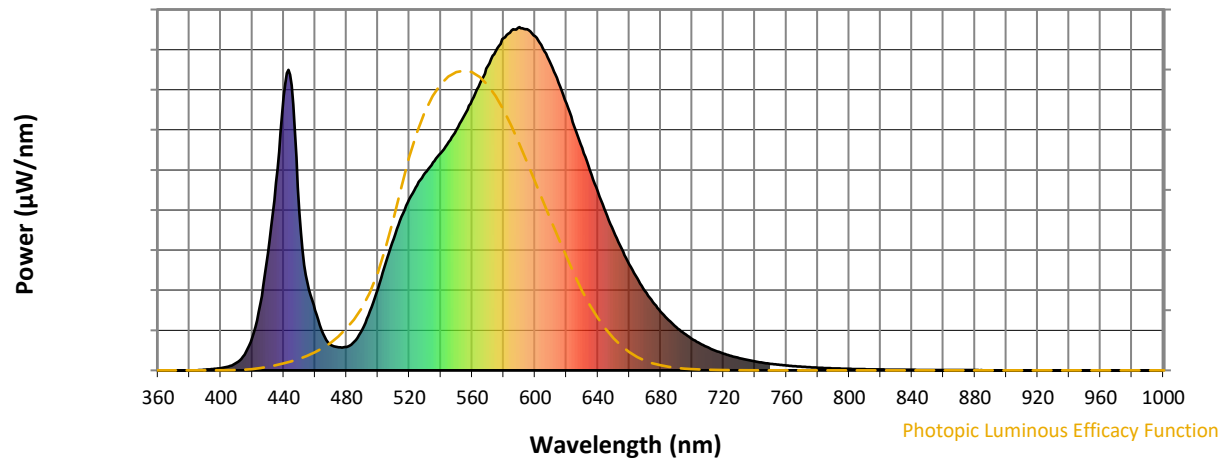
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

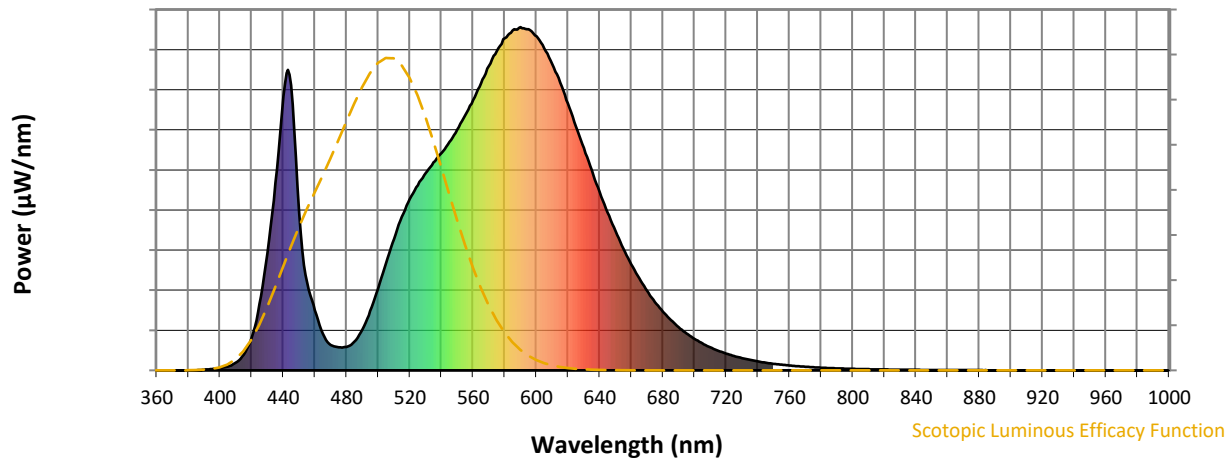


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



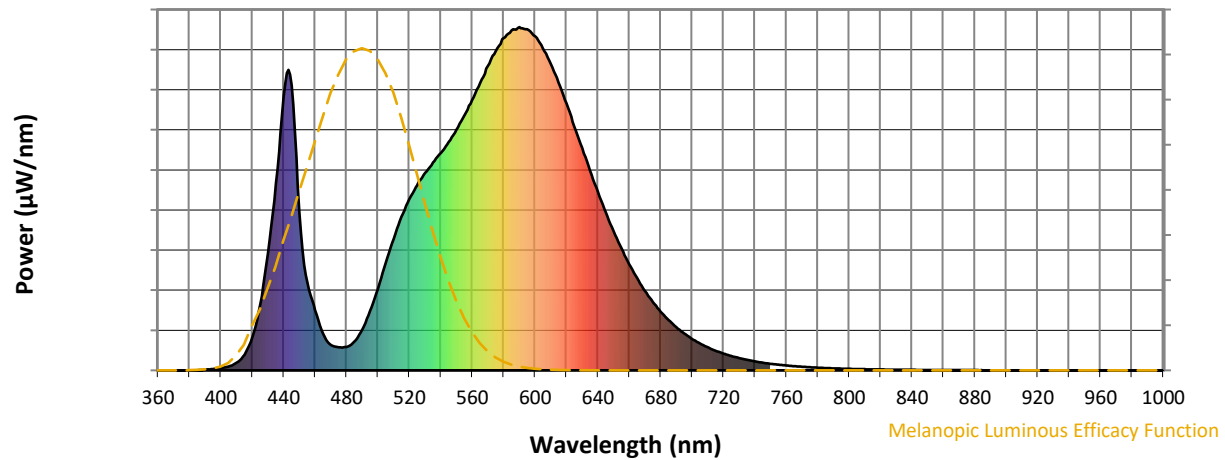
Scotopic Lumens: NR

S/P: 1.29

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	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

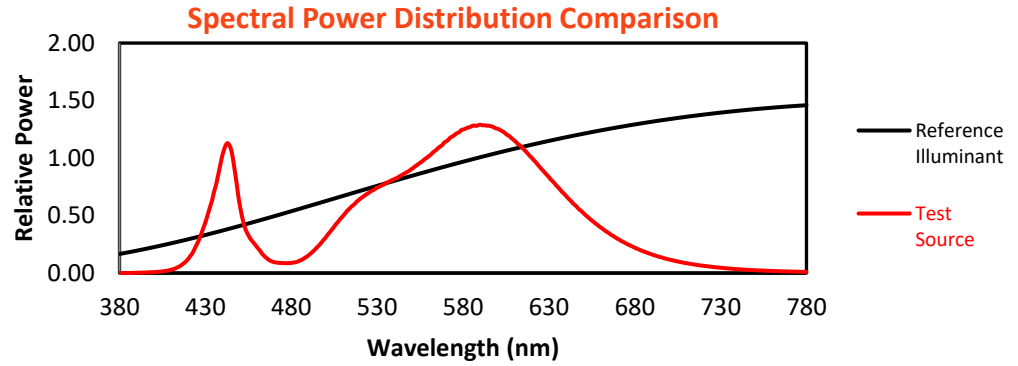
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	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			

REPORT NUMBER: SP1-2407-184-5

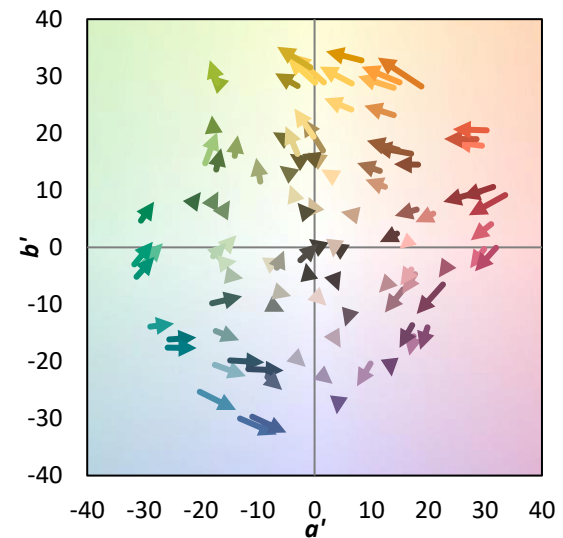
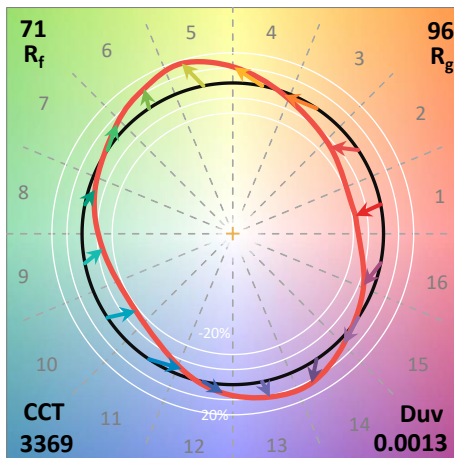
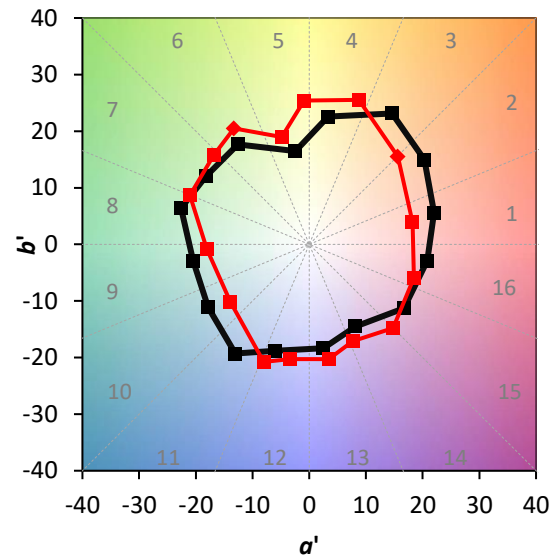
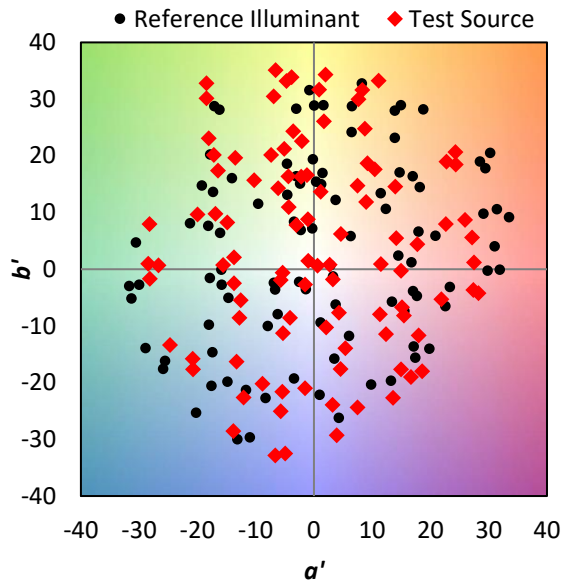
TM-30-18

Summary

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

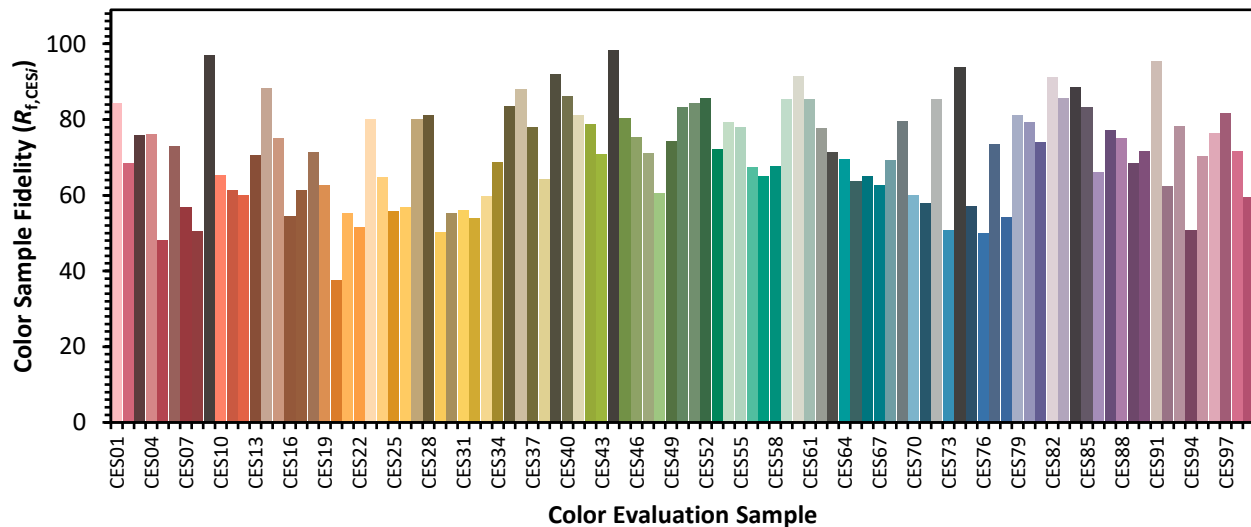


Color Vector Graphics

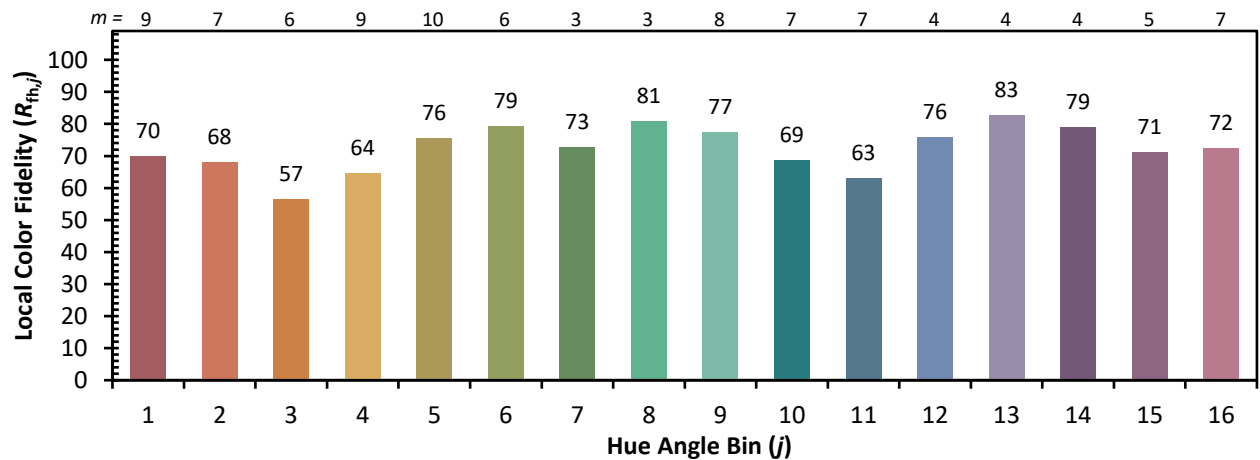
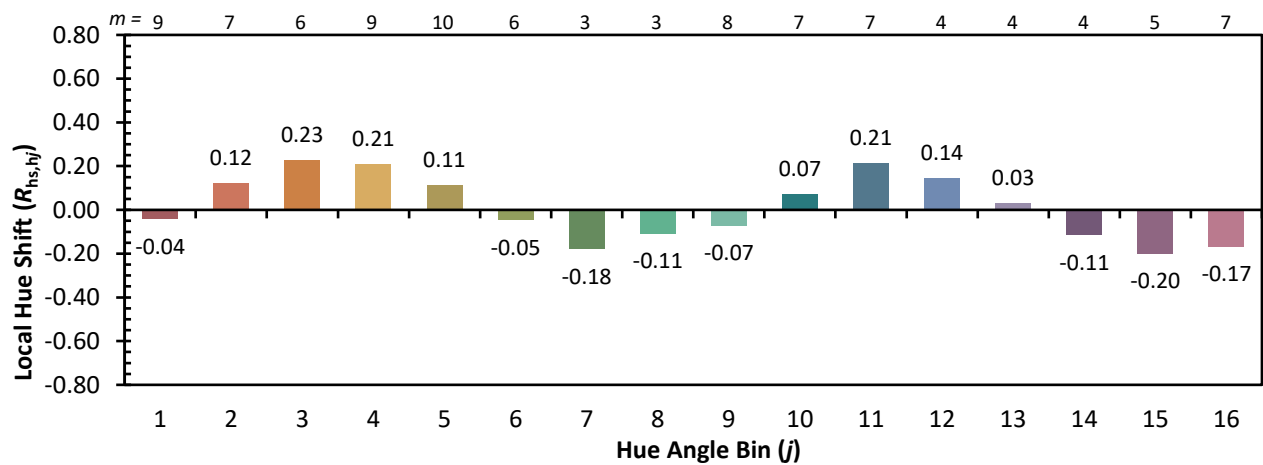
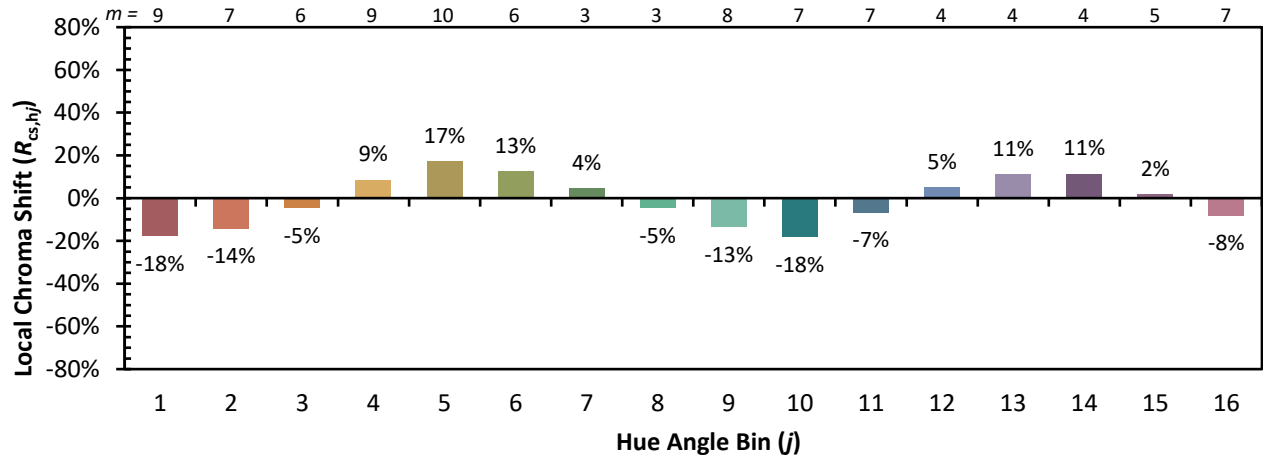


Individual Sample Fidelity Index ($R_{f,i}$)

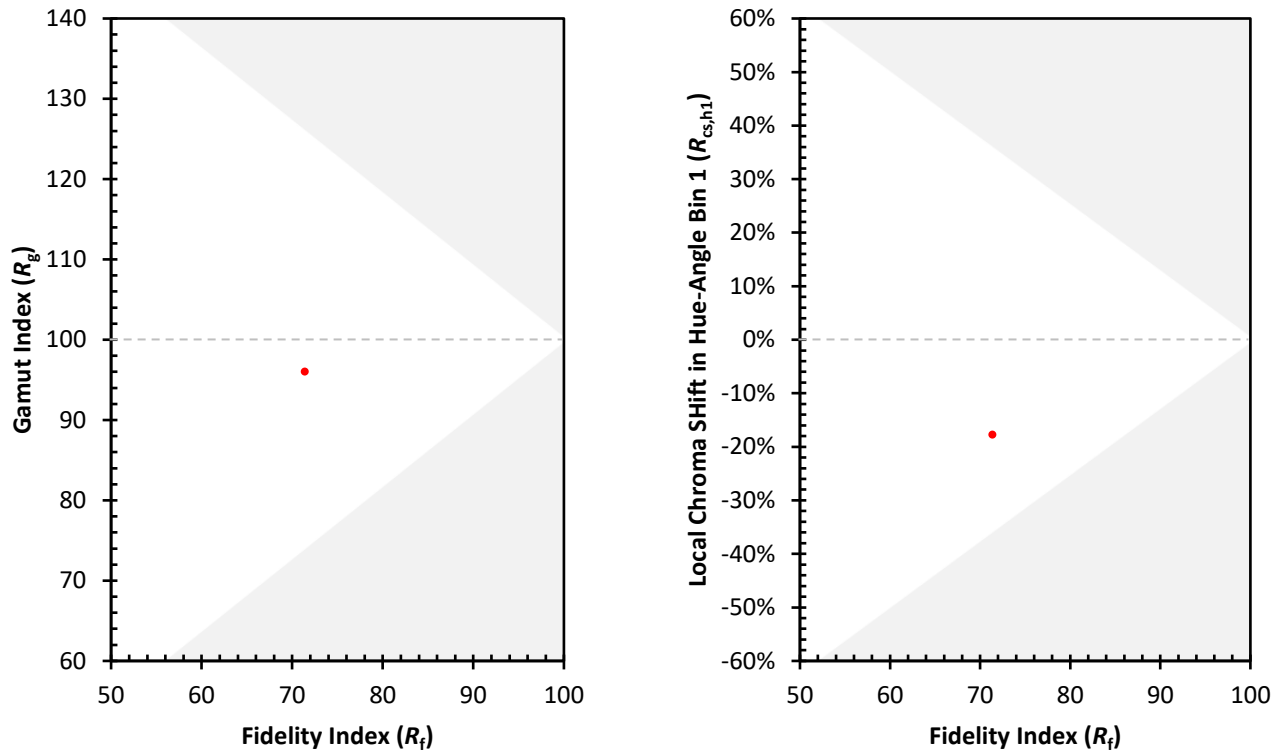
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 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)