

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: P1049462

Luminaire Tested: **GALN-SA1B-740-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049462
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 1xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4158.5 lumens
Efficiency: N/A
Efficacy: 107.5 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 (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

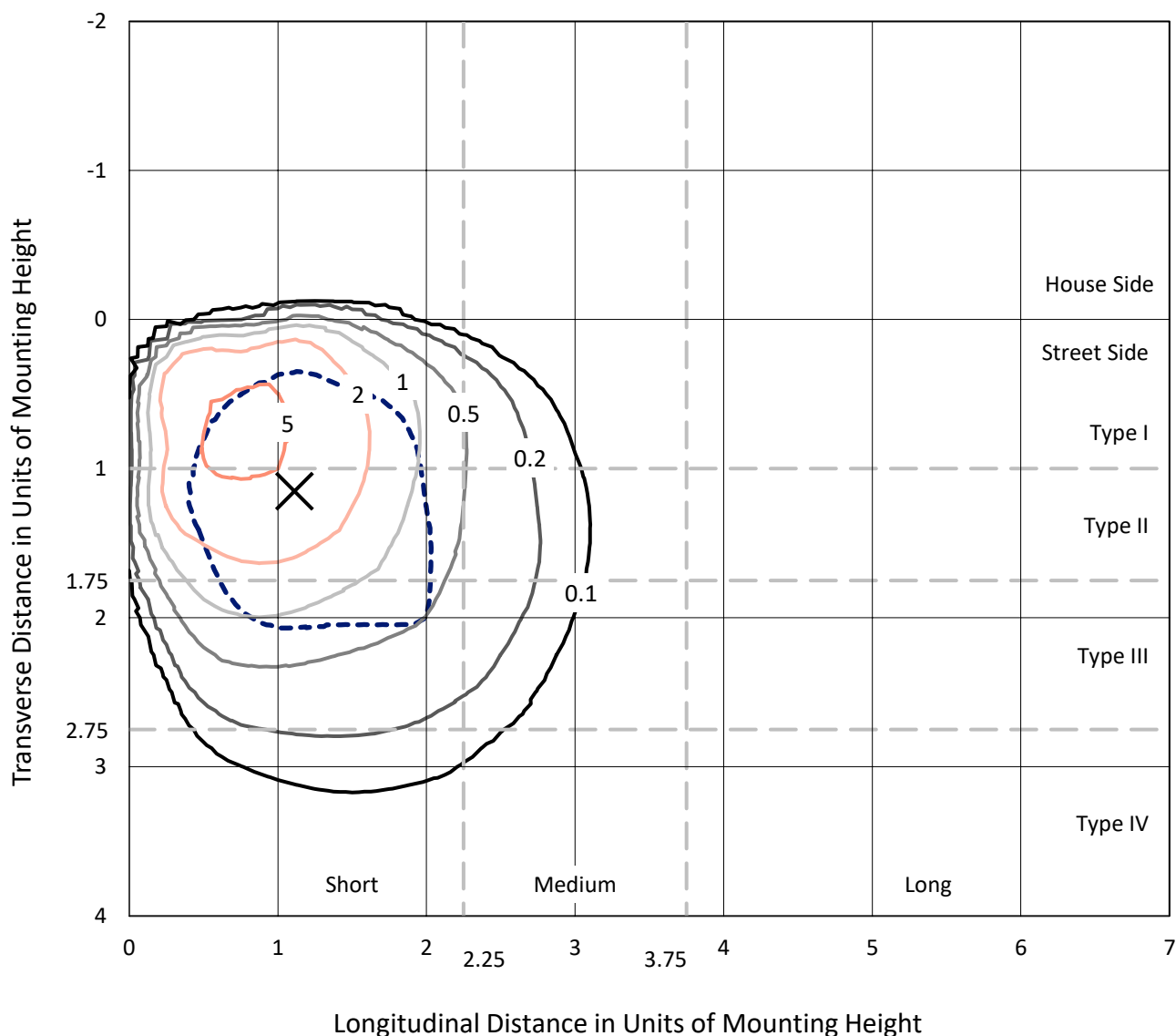
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

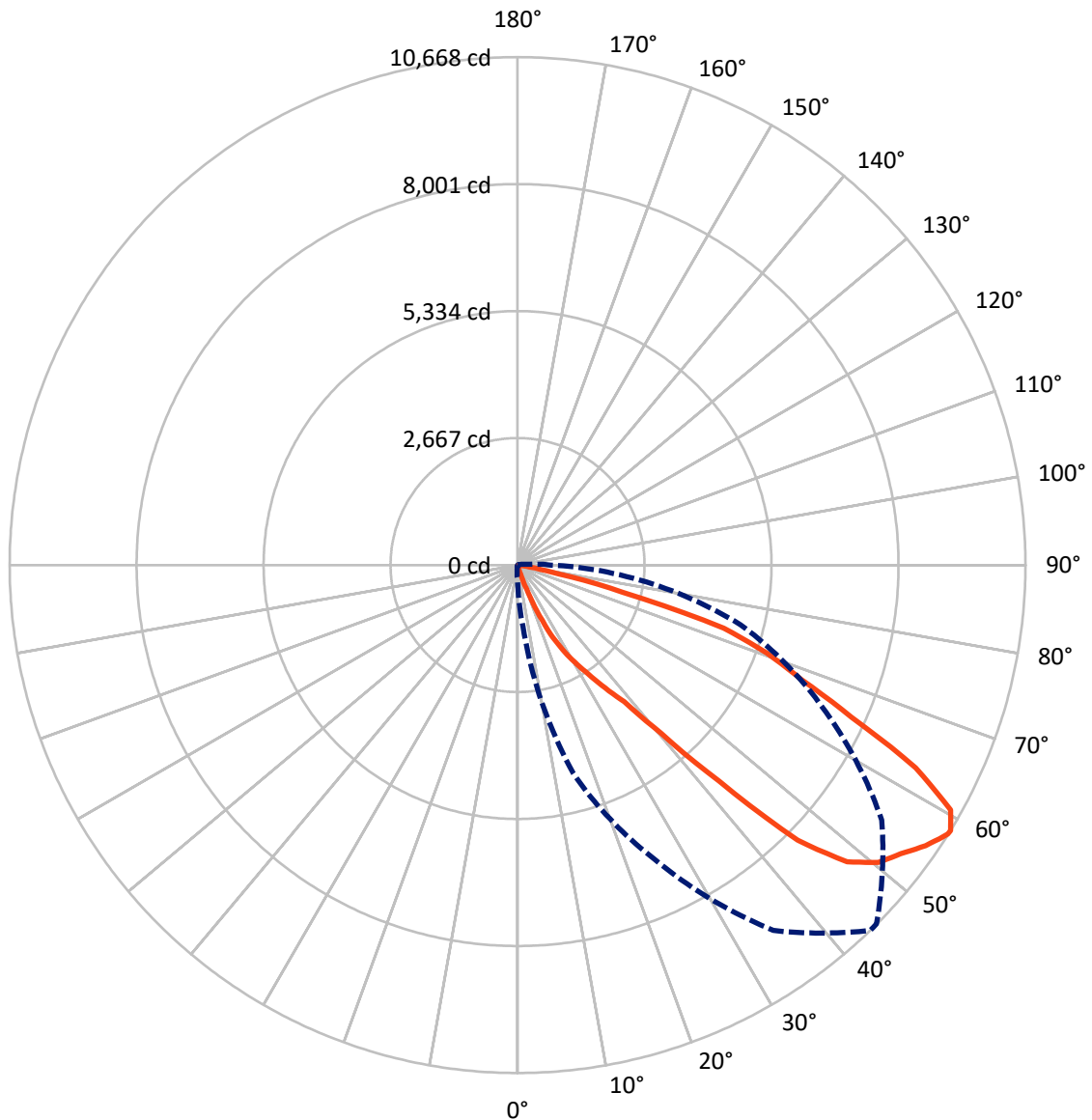


Based on 20 foot mounting height. Maximum calculated value = 7.2 fc

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	28.4	0.0	28.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	4130.1	0.0	4130.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	4158.5	0.0	4158.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.0
10°-20°	9.1	0.2
20°-30°	98.5	2.4
30°-40°	291.3	7.0
40°-50°	868.4	20.9
50°-60°	1377.9	33.1
60°-70°	1149.3	27.6
70°-80°	354.5	8.5
80°-90°	7.9	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°	4158.5	100.0
0°-180°	4158.5	100.0



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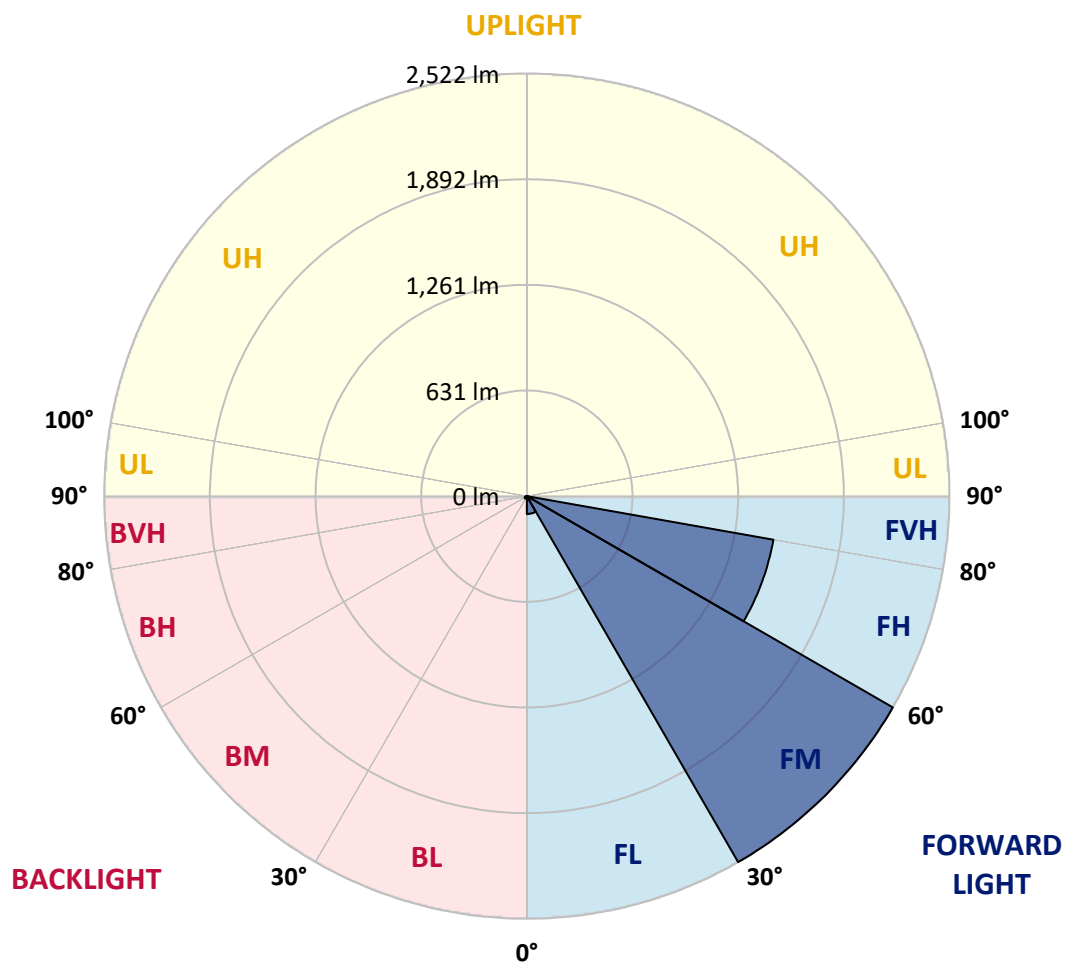
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	106.5	2.6			
FM	(30°-60°)	2522.1	60.6			
FH	(60°-80°)	1494.1	35.9			G1/1800
FVH	(80°-90°)	7.5	0.2			G0/10
BL	(0°-30°)	2.8	0.1	B0/110		
BM	(30°-60°)	15.5	0.4	B0/220		
BH	(60°-80°)	9.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	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°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
2.5°	23.6	23.6	22.6	21.4	20.1	18.8	18.5	17.9	17.6	17.3
5°	24.5	24.5	24.2	23.2	22.0	21.0	21.0	20.1	19.5	18.8
7.5°	25.1	25.4	26.1	25.8	25.1	24.2	24.2	23.6	22.6	21.0
10°	26.1	27.0	28.3	28.9	29.2	29.2	28.9	28.6	27.0	24.8
12.5°	27.0	28.9	32.0	35.2	37.1	39.6	39.3	38.6	34.6	29.8
15°	28.9	31.7	38.3	47.4	61.6	70.4	73.8	70.7	57.2	40.2
17.5°	31.1	35.8	55.6	99.3	162.7	192.9	211.1	196.3	130.1	76.3
20°	33.3	43.7	103.4	257.3	422.2	520.8	548.2	505.5	324.5	145.4
22.5°	37.1	61.3	209.5	531.8	909.8	1057.7	1085.7	949.0	612.9	287.1
25°	44.9	88.9	361.3	866.7	1357.7	1607.5	1595.8	1416.8	994.3	458.6
27.5°	56.2	129.4	546.3	1231.4	1786.8	2007.0	2033.4	1812.0	1325.4	674.5
30°	72.6	179.4	744.8	1523.6	2130.8	2368.9	2373.3	2144.3	1621.6	863.9
32.5°	88.3	226.5	918.5	1806.0	2469.8	2730.8	2750.3	2468.5	1842.8	1061.2
35°	100.2	257.3	1094.5	2054.2	2811.6	3171.3	3170.0	2835.4	2104.7	1237.4
37.5°	101.2	288.1	1253.7	2308.0	3244.4	3647.2	3687.1	3318.3	2421.4	1455.4
40°	99.0	322.6	1455.4	2703.8	4024.5	4642.4	4677.6	4212.6	3056.6	1828.6
42.5°	101.5	382.6	1782.8	3434.8	5319.7	6207.1	6275.0	5786.2	4224.3	2590.1
45°	114.7	495.4	2468.5	4657.8	7165.9	8247.8	8225.2	7521.2	5582.9	3749.3
47.5°	158.3	771.5	3485.1	5848.1	8345.8	9309.3	9328.7	8468.3	6375.8	4640.5
50°	243.5	1180.5	4339.2	6477.3	8853.1	9819.7	9801.5	8807.3	6677.1	5079.3
52.5°	316.7	1476.5	4767.7	6698.1	8918.2	10072.0	10070.7	8896.5	6723.9	5117.0
55°	334.9	1498.8	4771.2	6710.1	9063.9	10402.2	10443.6	9116.1	6784.5	4952.4
57.5°	327.6	1326.9	4572.0	6779.2	9323.4	10657.6	10659.8	9328.7	6938.4	4851.6
58°	321.4	1299.9	4531.8	6818.4	9368.0	10668.2	10662.9	9338.5	7063.8	4847.8
60°	286.2	1128.7	4375.0	6918.6	9301.7	10449.0	10399.0	9125.8	7045.2	4809.2
62.5°	224.9	880.5	4220.8	6802.7	8591.1	9387.5	9408.2	8079.4	6422.6	4583.9
65°	179.1	656.2	3899.1	5967.1	7074.5	7709.0	7786.3	6569.9	5360.8	3881.5
67.5°	142.6	474.4	3270.8	4750.8	5598.0	6433.9	6490.2	5516.0	4153.3	2974.0
70°	115.9	320.7	2257.7	3474.4	4617.2	5557.2	5560.6	4582.4	3099.9	1948.6
72.5°	102.7	222.1	1310.6	2533.9	3743.9	4528.3	4436.9	3718.5	2382.4	1154.2
75°	88.9	147.3	642.7	1549.0	2270.0	2285.4	2320.2	1724.9	1190.9	548.8
77.5°	73.2	104.6	253.2	423.1	680.7	871.4	903.8	684.8	396.1	135.1
80°	50.3	49.6	68.2	129.7	194.8	244.1	227.8	176.2	103.7	51.8
82.5°	21.7	23.6	30.8	37.1	30.2	29.2	28.0	17.9	13.8	10.7
85°	6.9	6.3	6.6	6.6	5.3	4.1	4.1	1.9	0.0	0.0
87.5°	3.5	2.8	2.8	2.5	1.6	0.6	0.3	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°
18.2	0°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
17.0	2.5°	16.6	16.6	16.0	15.4	15.1	14.5	14.1	13.8	13.5	13.2
18.2	5°	17.6	17.3	16.3	15.4	14.5	13.5	12.9	12.3	11.6	11.3
20.1	7.5°	19.2	18.5	16.6	15.1	13.8	12.6	11.9	11.0	10.4	9.4
22.3	10°	21.0	19.8	17.3	15.4	13.5	11.9	11.0	10.1	9.1	7.9
25.4	12.5°	23.6	21.4	18.2	15.1	12.9	11.0	10.1	8.8	7.9	6.9
29.5	15°	25.8	22.9	18.5	15.1	12.3	10.1	8.8	7.5	6.6	5.3
37.1	17.5°	28.9	24.2	18.2	14.1	11.3	8.8	7.5	6.6	5.0	3.1
55.0	20°	34.2	25.1	17.6	13.2	9.7	7.2	5.7	4.4	2.2	0.6
82.6	22.5°	42.7	27.6	17.0	11.9	8.5	5.7	3.8	1.6	0.0	0.0
125.7	25°	59.1	32.0	17.0	11.3	7.5	4.1	1.3	0.0	0.0	0.0
178.4	27.5°	78.5	38.0	17.0	9.7	6.0	2.2	0.0	0.0	0.0	0.0
243.1	30°	98.3	44.6	17.0	8.5	4.7	0.3	0.0	0.0	0.0	0.0
299.4	32.5°	117.2	50.3	17.3	7.2	3.1	0.0	0.0	0.0	0.0	0.0
377.3	35°	136.3	51.2	17.0	6.3	1.9	0.0	0.0	0.0	0.0	0.0
472.8	37.5°	160.8	49.3	16.0	5.7	0.9	0.0	0.0	0.0	0.0	0.0
622.0	40°	197.9	50.3	15.1	5.3	0.3	0.0	0.0	0.0	0.0	0.0
888.1	42.5°	266.4	54.3	13.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0
1414.6	45°	460.5	72.9	12.6	5.7	0.0	0.0	0.0	0.0	0.0	0.0
2123.6	47.5°	761.8	131.0	12.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0
2558.1	50°	972.3	164.9	12.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0
2612.4	52.5°	970.7	183.8	13.5	6.3	1.3	0.0	0.0	0.0	0.0	0.0
2407.9	55°	862.9	187.2	14.5	6.9	4.1	0.0	0.0	0.0	0.0	0.0
2069.2	57.5°	721.3	170.9	16.6	8.5	7.5	0.0	0.0	0.0	0.0	0.0
2016.2	58°	696.1	163.4	17.3	8.8	8.2	0.0	0.0	0.0	0.0	0.0
1748.8	60°	570.5	133.2	22.0	11.0	11.0	0.0	0.0	0.0	0.0	0.0
1433.7	62.5°	393.9	116.2	25.1	14.1	11.3	0.0	0.0	0.0	0.0	0.0
1057.1	65°	278.6	104.9	27.3	15.1	9.1	0.0	0.0	0.0	0.0	0.0
751.1	67.5°	208.3	96.8	30.2	15.4	4.7	0.0	0.0	0.0	0.0	0.0
471.2	70°	159.6	90.8	37.1	16.3	1.3	0.0	0.0	0.0	0.0	0.0
280.8	72.5°	130.1	83.9	44.9	17.0	0.0	0.0	0.0	0.0	0.0	0.0
168.4	75°	107.8	75.7	43.4	18.5	0.0	0.0	0.0	0.0	0.0	0.0
89.8	77.5°	71.6	58.7	39.6	18.5	0.0	0.0	0.0	0.0	0.0	0.0
32.0	80°	25.1	23.2	30.8	16.3	0.0	0.0	0.0	0.0	0.0	0.0
6.6	82.5°	3.8	3.1	4.4	5.7	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°
18.2	0°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
12.9	2.5°	12.9	12.9	12.6	12.9	12.9	13.5	15.1	17.3	19.8	20.7
11.0	5°	10.7	10.4	10.1	10.1	10.1	11.0	12.3	14.8	17.6	18.8
9.1	7.5°	8.8	8.5	8.2	7.9	7.9	8.5	10.1	12.9	15.7	17.0
7.5	10°	7.2	6.6	6.3	6.0	6.0	6.6	8.2	11.0	14.1	15.4
6.3	12.5°	6.0	5.0	4.4	4.1	3.8	4.7	6.3	8.8	12.3	13.8
4.7	15°	4.1	3.1	2.2	1.9	1.6	2.5	4.1	6.9	10.4	12.3
2.5	17.5°	2.2	0.9	0.3	0.0	0.0	0.6	1.9	5.0	8.5	10.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	6.3	7.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.8	5.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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	0.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5
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°
18.2	0°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
21.7	2.5°	22.3	22.0	21.4	20.7	20.7	20.7	21.7	22.6	23.6	23.6
19.5	5°	20.7	20.7	20.4	19.8	19.8	20.1	21.4	22.9	24.2	24.5
17.9	7.5°	19.2	19.8	19.2	18.8	19.2	19.5	20.7	22.6	24.5	25.1
16.6	10°	18.2	18.5	18.5	18.2	18.2	18.8	20.1	22.6	25.1	26.1
15.1	12.5°	17.0	17.6	17.3	17.3	17.3	17.9	19.5	22.3	25.8	27.0
13.5	15°	15.7	16.6	16.6	16.3	16.3	16.6	18.8	22.0	26.7	28.9
11.6	17.5°	14.5	15.4	15.7	15.1	15.1	15.7	17.9	22.0	27.3	31.1
9.4	20°	11.9	13.5	14.5	13.5	13.5	14.1	16.3	20.7	27.6	33.3
6.9	22.5°	9.4	11.0	12.3	11.9	11.9	12.3	15.1	19.8	28.0	37.1
4.1	25°	6.9	8.5	9.4	10.1	10.1	11.0	13.8	19.2	29.2	44.9
1.9	27.5°	4.1	6.0	7.2	7.9	8.2	9.4	12.9	18.5	31.4	56.2
0.0	30°	1.9	3.5	5.0	6.3	6.3	8.5	11.9	17.9	34.2	72.6
0.0	32.5°	0.0	1.6	2.5	4.4	4.7	6.9	11.0	17.3	38.3	88.3
0.0	35°	0.0	0.0	1.3	3.5	3.5	5.7	10.1	16.6	44.6	100.2
0.0	37.5°	0.0	0.0	0.0	2.5	2.8	5.0	9.7	16.3	45.9	101.2
0.0	40°	0.0	0.0	0.0	1.9	2.2	4.7	9.7	16.6	41.5	99.0
0.0	42.5°	0.0	0.0	0.0	1.3	1.6	4.7	9.7	17.3	37.4	101.5
0.0	45°	0.0	0.0	0.0	0.9	1.3	5.0	9.4	17.0	35.2	114.7
0.0	47.5°	0.0	0.0	0.0	1.3	1.9	5.0	9.1	16.6	35.5	158.3
0.0	50°	0.0	0.0	0.0	1.6	2.2	5.0	9.4	16.0	39.0	243.5
0.0	52.5°	0.0	0.0	0.0	1.3	1.9	5.7	10.4	15.7	42.4	316.7
0.0	55°	0.0	0.0	0.0	0.3	0.9	7.2	11.3	15.7	47.7	334.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	8.2	12.9	16.6	56.5	327.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	8.2	13.2	16.6	57.2	321.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	8.2	14.5	18.5	61.6	286.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	6.9	17.3	23.2	64.1	224.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	5.7	20.4	25.4	66.0	179.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	5.3	21.0	25.8	66.9	142.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	5.7	20.7	27.6	70.1	115.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	6.3	18.8	30.5	70.1	102.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	6.6	17.6	34.2	63.8	88.9
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	6.3	17.3	39.9	56.9	73.2
0.0	80°	0.6	0.9	0.9	0.6	0.6	5.3	17.0	40.5	48.4	50.3
0.3	82.5°	1.9	2.5	2.2	1.6	1.6	4.7	15.1	33.9	25.1	21.7
1.9	85°	3.5	4.1	4.1	3.5	3.5	4.4	9.4	12.3	8.5	6.9
3.5	87.5°	4.7	5.3	5.3	4.7	4.7	4.4	4.1	3.8	3.5	3.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

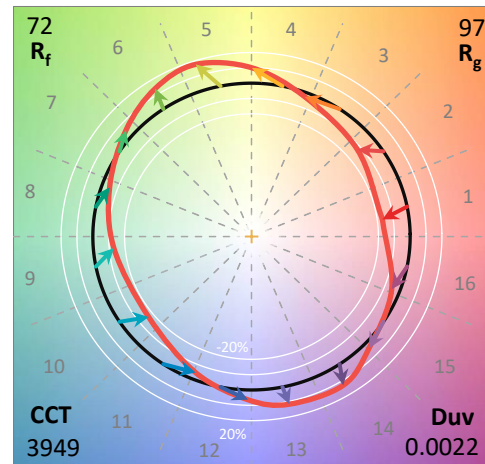
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

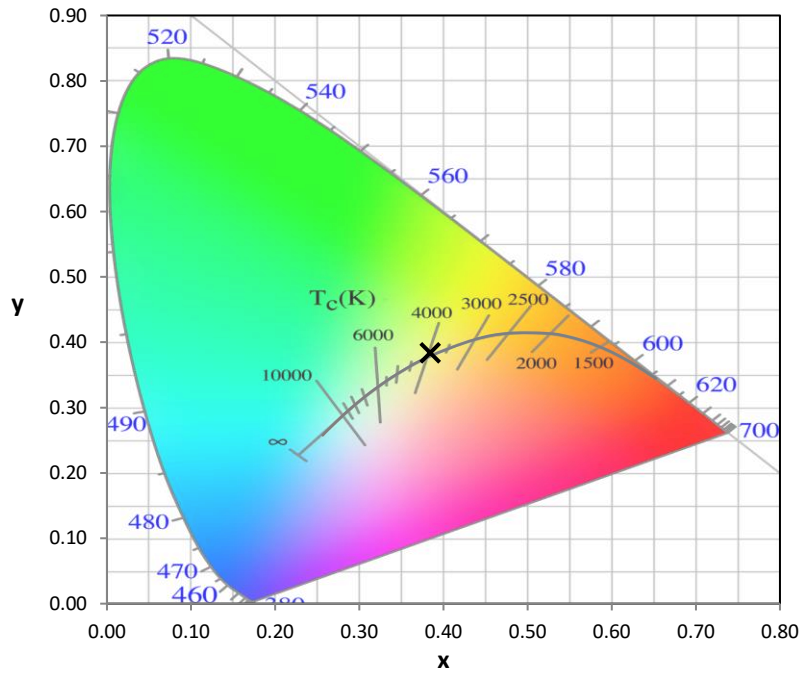
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

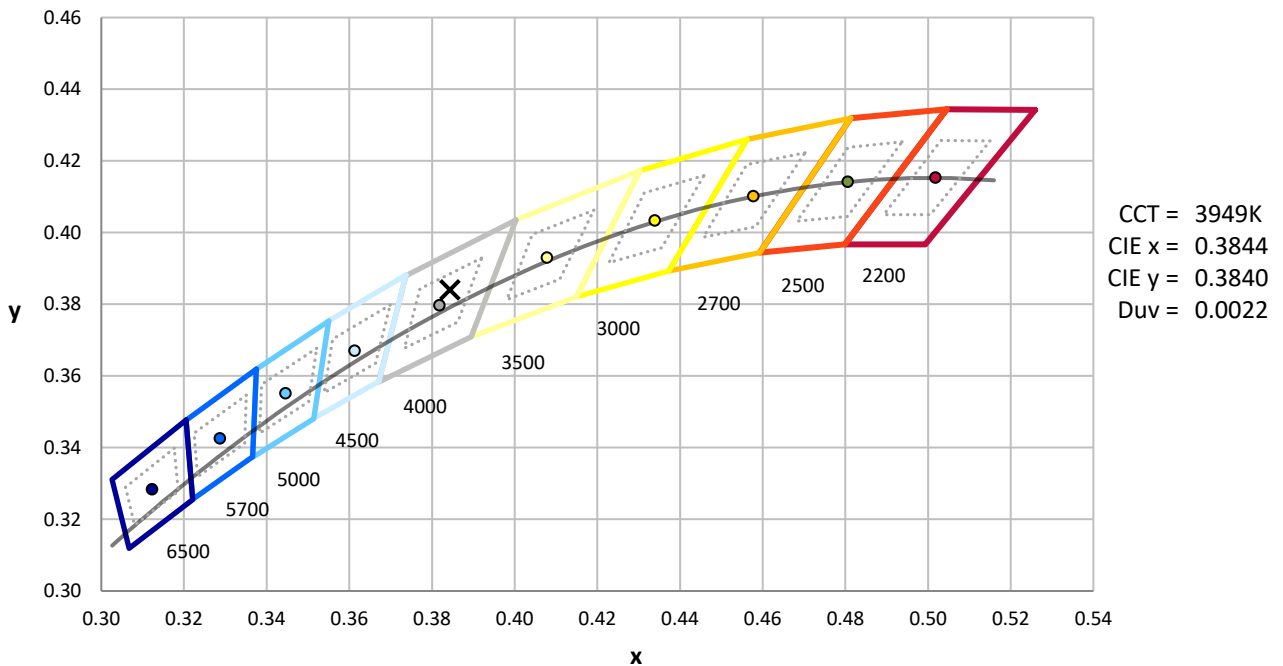
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



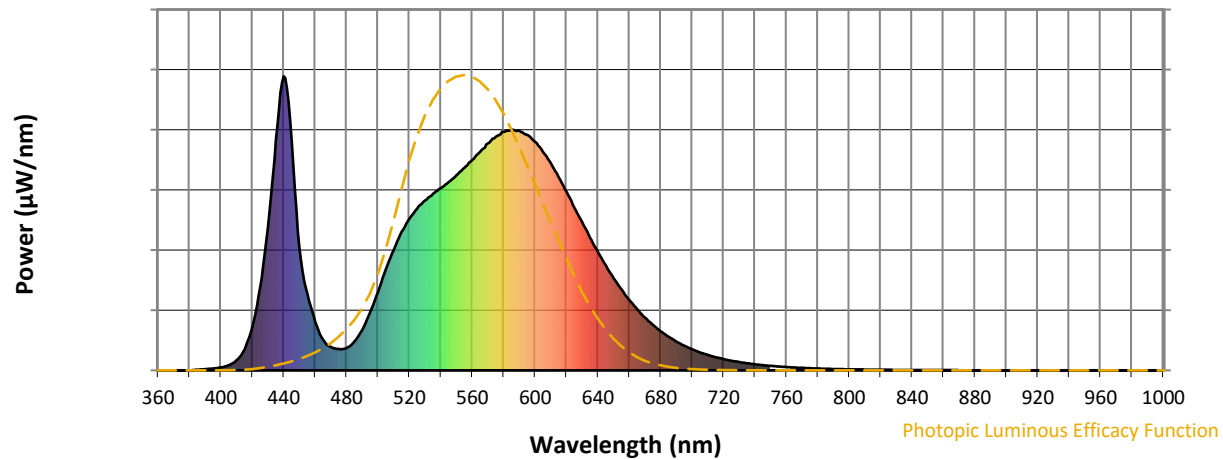
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

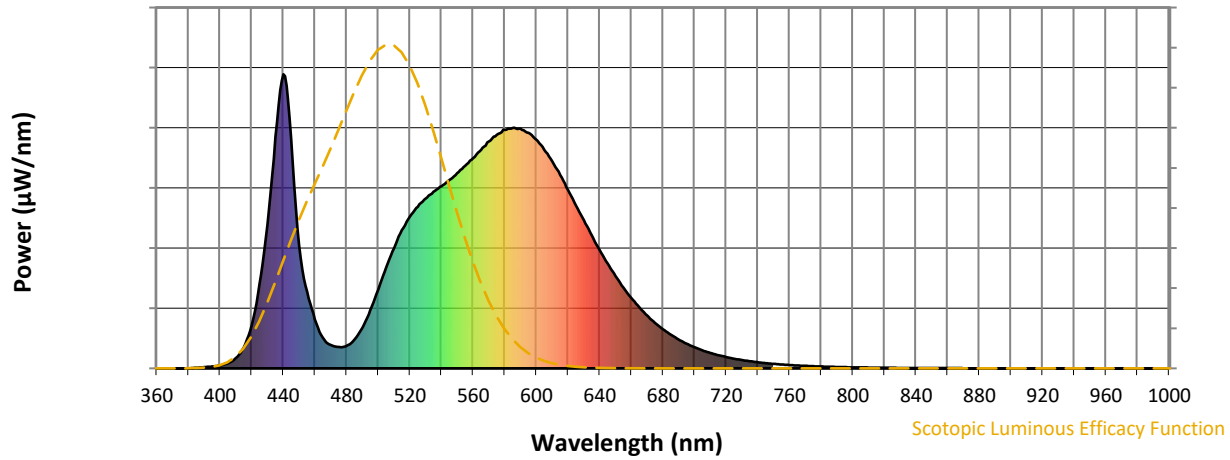


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



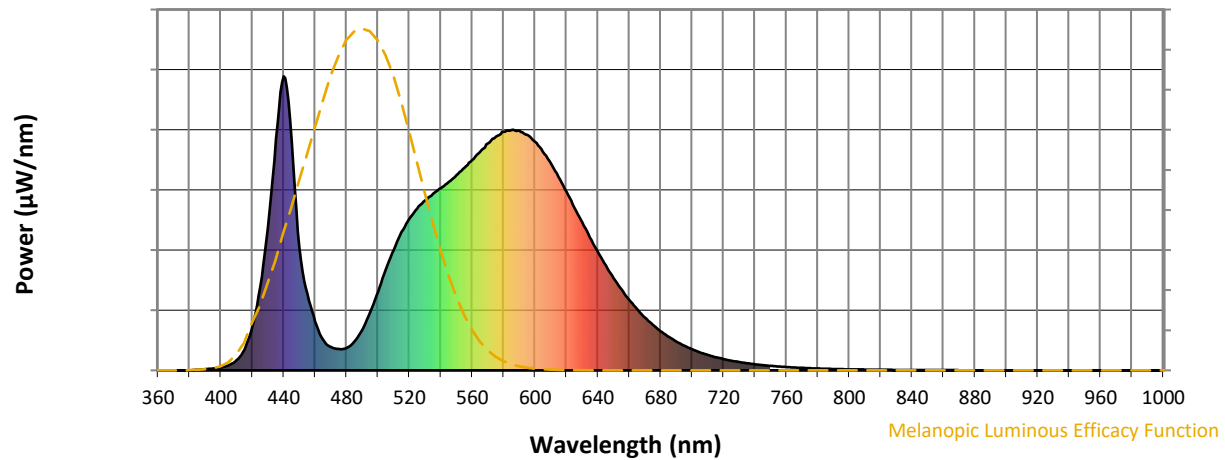
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

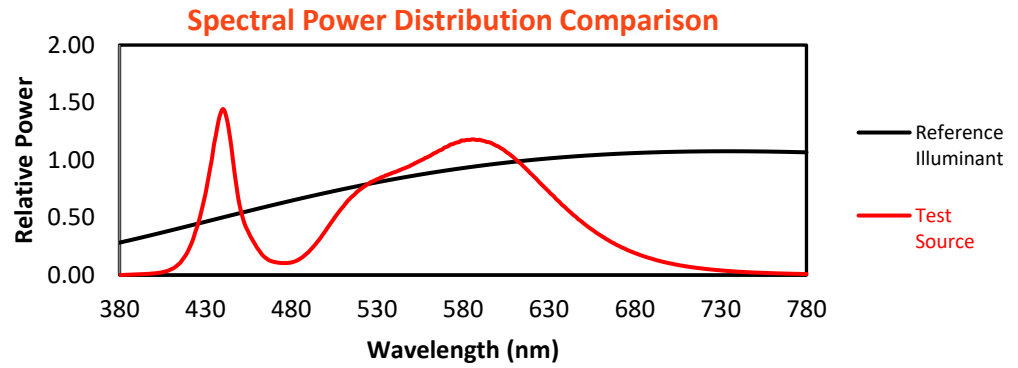
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

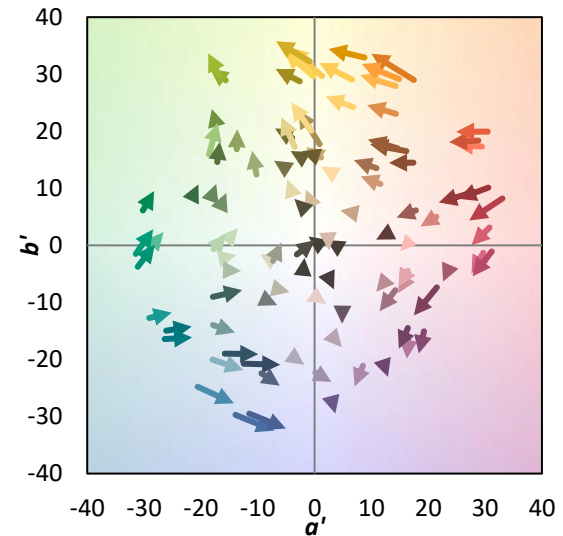
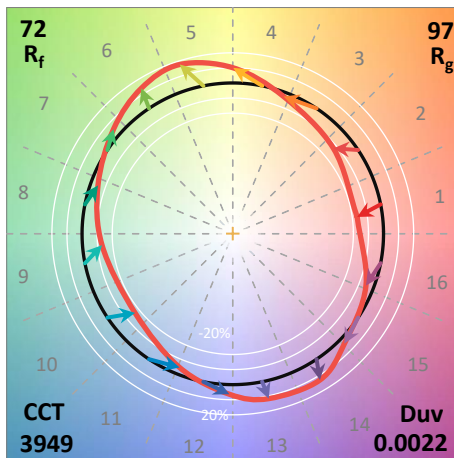
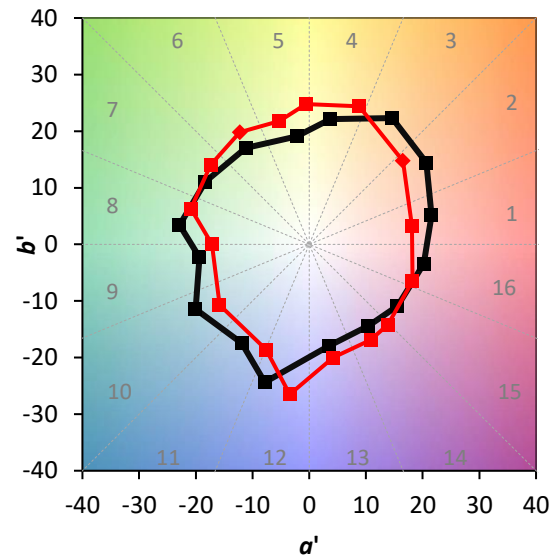
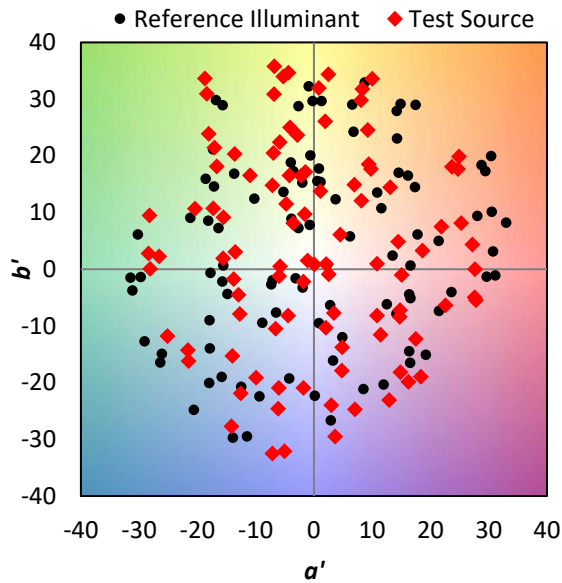
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 $CIE R_a = 70.7$
 $R_g = -36.7$

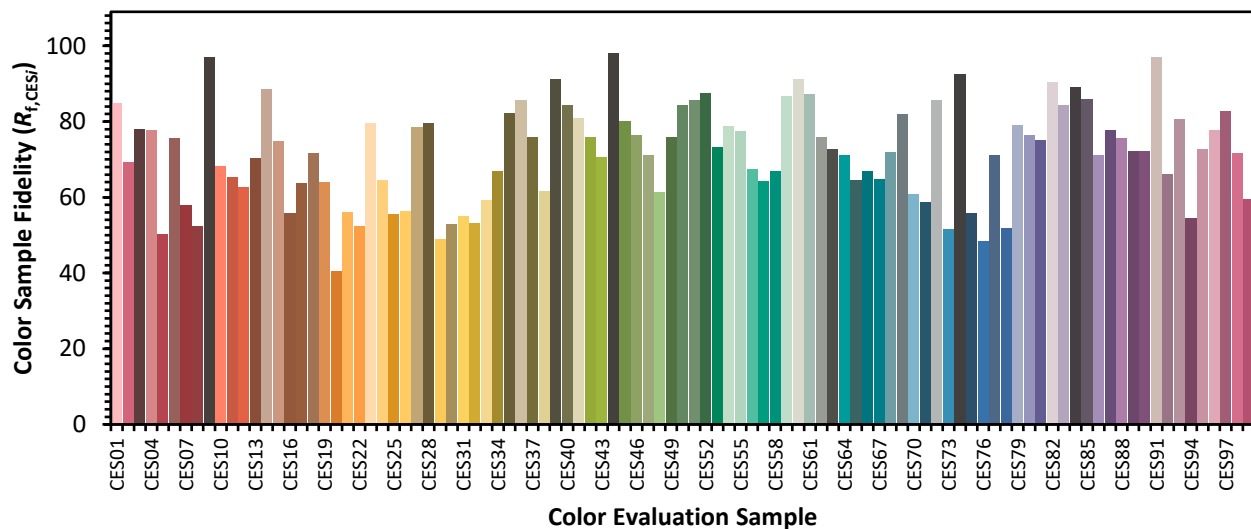


Color Vector Graphics

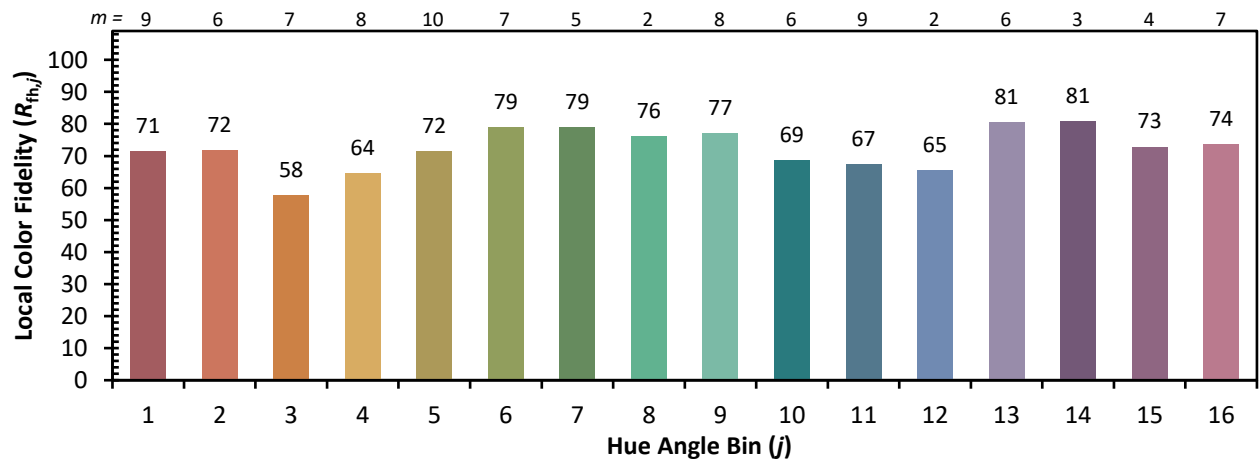
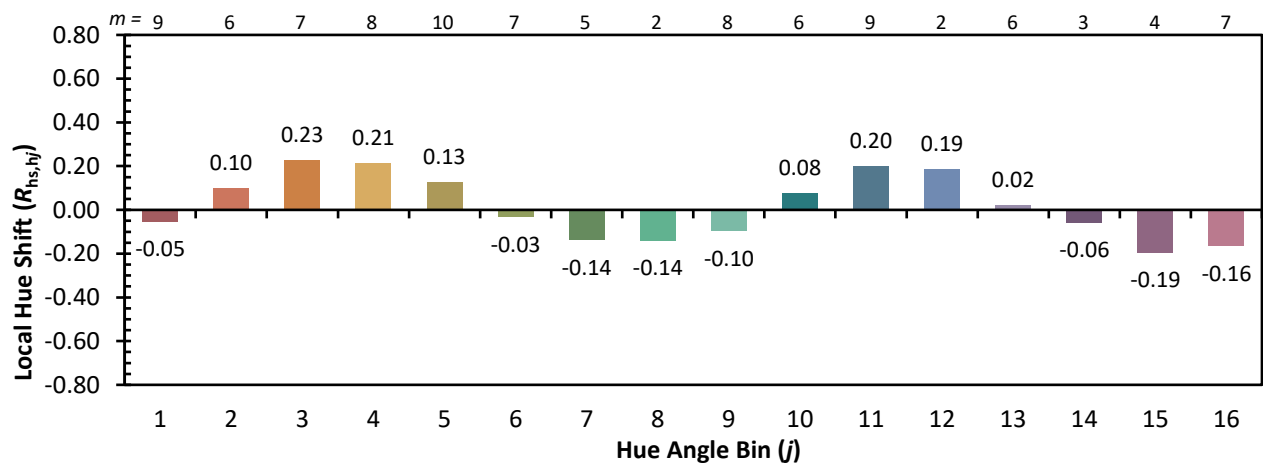
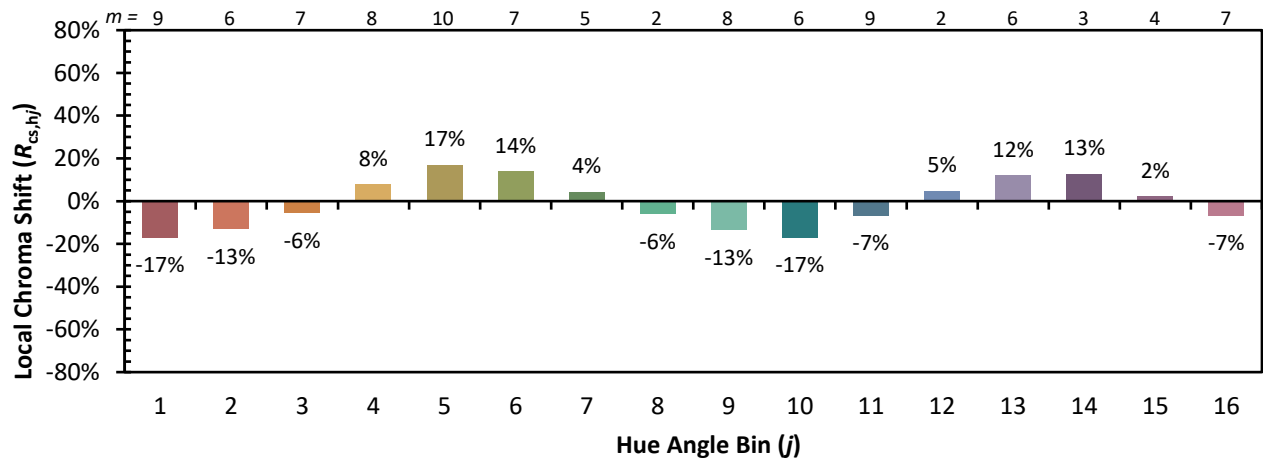


Individual Sample Fidelity Index ($R_{f,i}$)

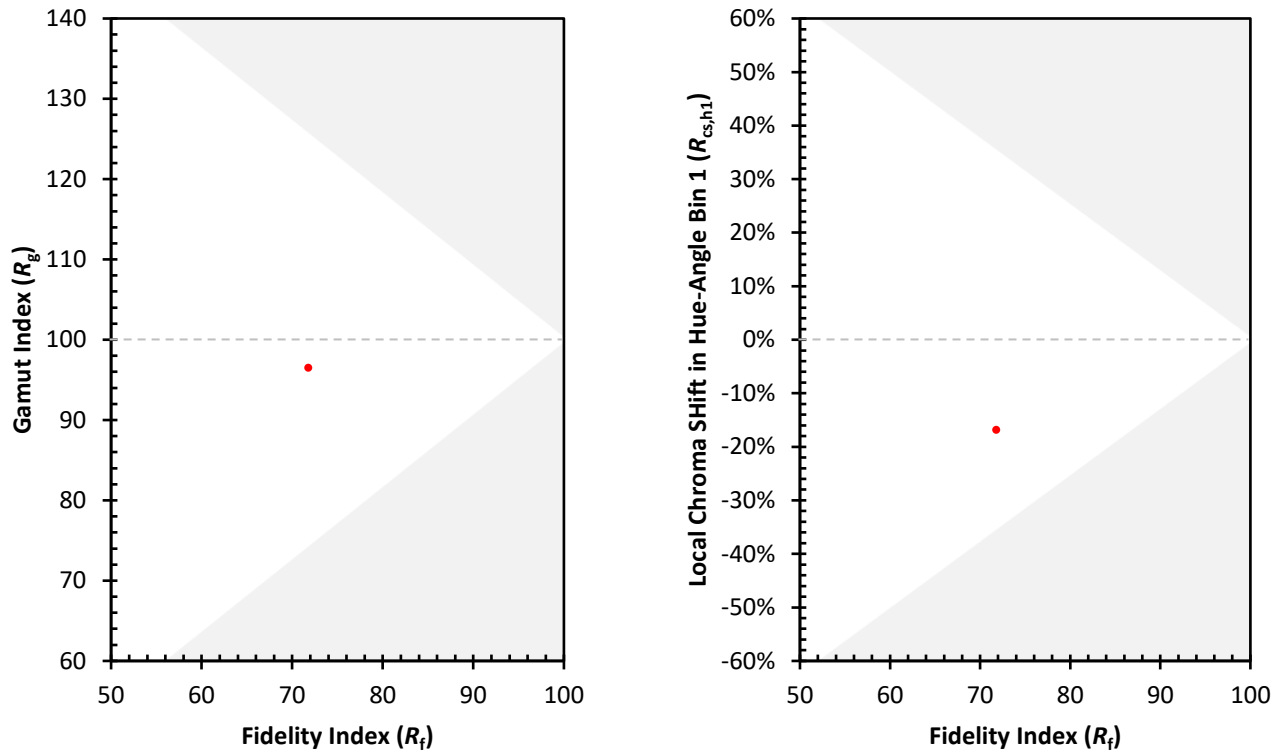
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)