

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: P1049681

Luminaire Tested: **GALN-SA2A-760-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049681
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-760-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE
70CRI 5700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6704.1 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 55.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

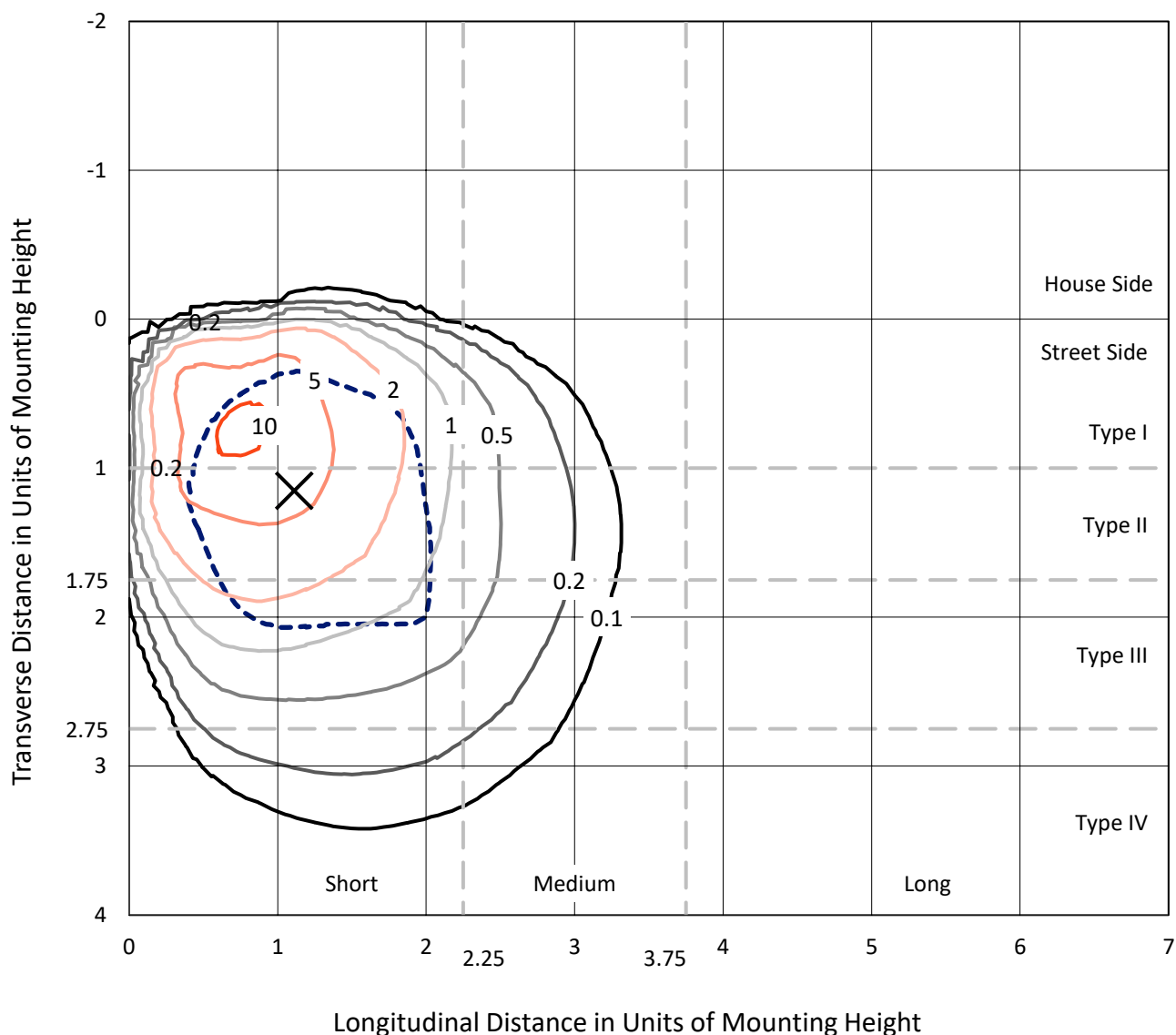
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

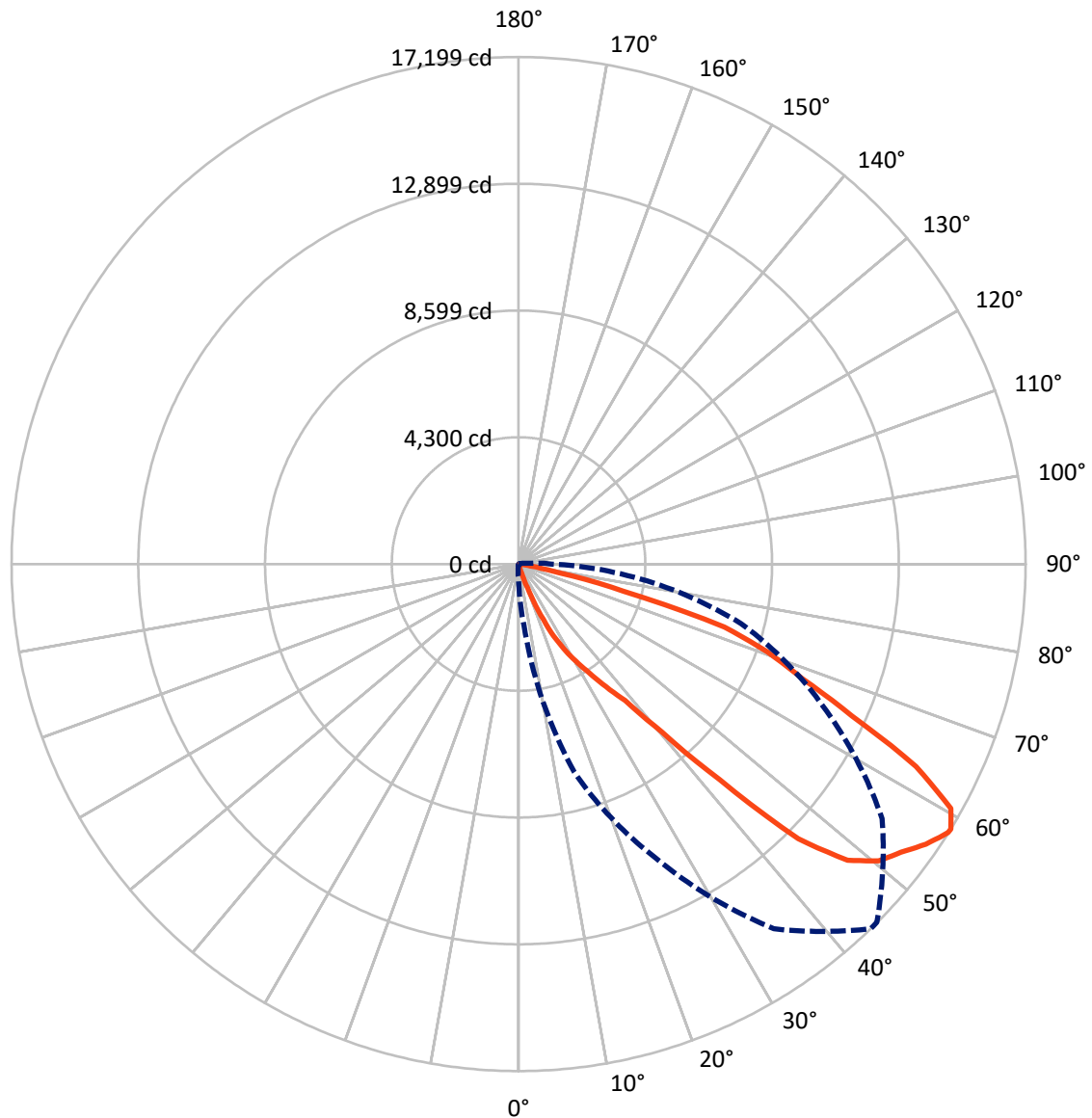


Based on 20 foot mounting height. Maximum calculated value = 11.7 fc

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	45.8	0.0	45.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	6658.4	0.0	6658.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	6704.1	0.0	6704.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.0
10°-20°	14.7	0.2
20°-30°	158.8	2.4
30°-40°	469.7	7.0
40°-50°	1399.9	20.9
50°-60°	2221.4	33.1
60°-70°	1852.9	27.6
70°-80°	571.5	8.5
80°-90°	12.7	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°	6704.1	100.0
0°-180°	6704.1	100.0



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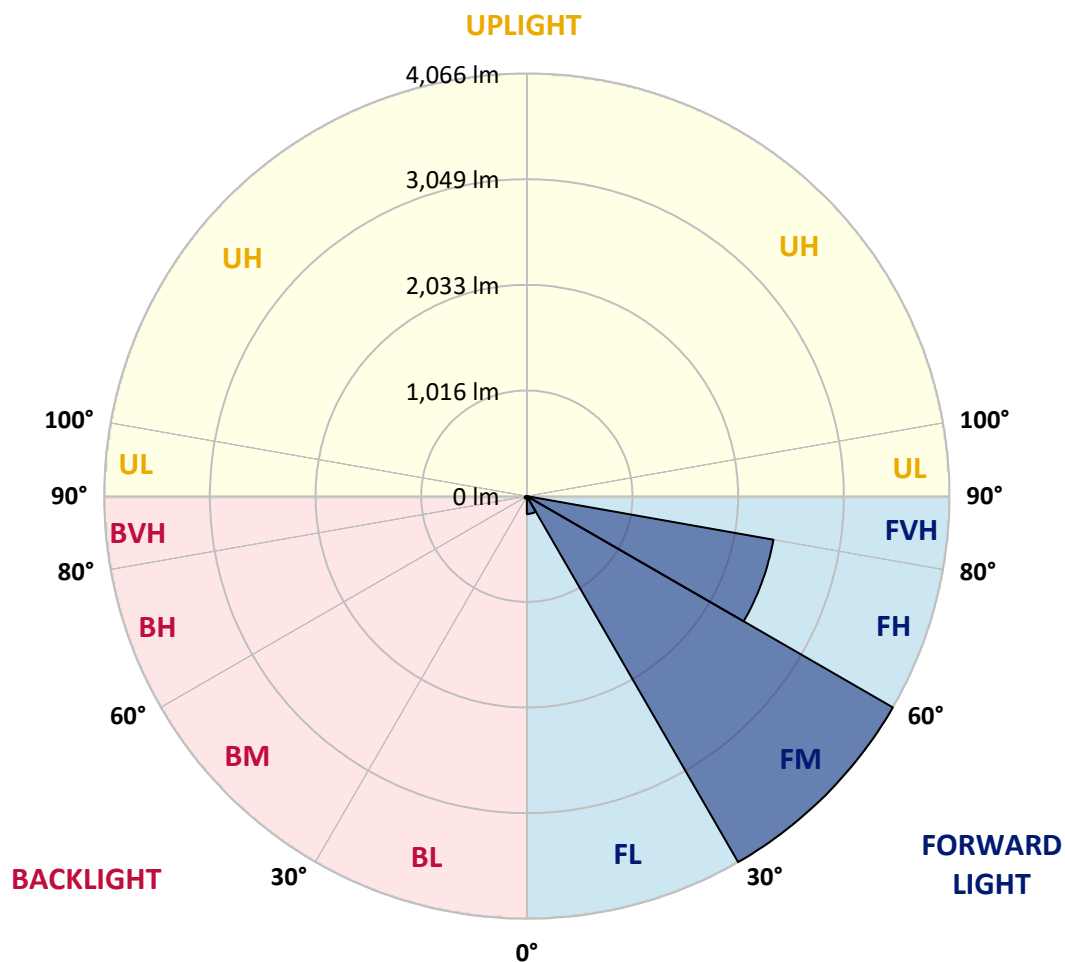
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	171.7	2.6			
FM	(30°-60°)	4065.9	60.6			
FH	(60°-80°)	2408.7	35.9			G2/5000
FVH	(80°-90°)	12.1	0.2			G1/100
BL	(0°-30°)	4.5	0.1	B0/110		
BM	(30°-60°)	25.1	0.4	B0/220		
BH	(60°-80°)	15.6	0.2	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
2.5°	38.0	38.0	36.5	34.4	32.4	30.4	29.9	28.9	28.4	27.9
5°	39.5	39.5	39.0	37.5	35.5	33.9	33.9	32.4	31.4	30.4
7.5°	40.5	41.0	42.0	41.5	40.5	39.0	39.0	38.0	36.5	33.9
10°	42.0	43.6	45.6	46.6	47.1	47.1	46.6	46.1	43.6	40.0
12.5°	43.6	46.6	51.7	56.7	59.8	63.8	63.3	62.3	55.7	48.1
15°	46.6	51.2	61.8	76.5	99.3	113.4	119.0	113.9	92.2	64.8
17.5°	50.1	57.7	89.6	160.0	262.3	311.0	340.3	316.5	209.7	123.1
20°	53.7	70.4	166.6	414.8	680.7	839.7	883.7	814.9	523.2	234.5
22.5°	59.8	98.8	337.8	857.4	1466.7	1705.2	1750.3	1530.0	988.1	462.9
25°	72.4	143.3	582.4	1397.3	2188.8	2591.5	2572.7	2284.0	1602.9	739.4
27.5°	90.7	208.7	880.7	1985.2	2880.6	3235.6	3278.2	2921.2	2136.7	1087.3
30°	117.0	289.2	1200.8	2456.2	3435.2	3819.1	3826.2	3457.0	2614.2	1392.7
32.5°	142.3	365.1	1480.8	2911.5	3981.6	4402.5	4433.9	3979.6	2970.8	1710.8
35°	161.6	414.8	1764.4	3311.6	4532.6	5112.5	5110.5	4571.1	3393.2	1994.9
37.5°	163.1	464.4	2021.2	3720.8	5230.5	5879.8	5944.1	5349.5	3903.6	2346.3
40°	159.5	520.1	2346.3	4358.9	6488.0	7484.2	7540.9	6791.4	4927.7	2948.0
42.5°	163.6	616.8	2874.1	5537.4	8576.1	10006.8	10116.2	9328.1	6810.1	4175.6
45°	184.9	798.7	3979.6	7509.0	11552.4	13296.6	13260.1	12125.2	9000.5	6044.4
47.5°	255.2	1243.8	5618.5	9427.9	13454.6	15007.9	15039.3	13652.1	10278.7	7481.1
50°	392.5	1903.2	6995.5	10442.3	14272.5	15830.8	15801.5	14198.6	10764.4	8188.6
52.5°	510.5	2380.3	7686.3	10798.3	14377.3	16237.5	16235.5	14342.4	10839.9	8249.4
55°	539.9	2416.2	7691.8	10817.6	14612.3	16769.8	16836.6	14696.4	10937.6	7984.0
57.5°	528.2	2139.2	7370.7	10929.0	15030.7	17181.5	17185.1	15039.3	11185.8	7821.5
58°	518.1	2095.7	7305.9	10992.3	15102.6	17198.7	17190.1	15055.0	11387.8	7815.4
60°	461.4	1819.6	7053.2	11153.9	14995.7	16845.2	16764.7	14712.1	11357.9	7753.1
62.5°	362.6	1419.6	6804.5	10967.0	13850.1	15134.0	15167.4	13025.1	10354.2	7390.0
65°	288.7	1058.0	6285.9	9619.8	11405.0	12428.1	12552.6	10591.7	8642.4	6257.6
67.5°	229.9	764.7	5273.1	7658.9	9024.8	10372.4	10463.1	8892.6	6695.7	4794.5
70°	186.9	517.1	3639.8	5601.2	7443.7	8958.9	8964.5	7387.5	4997.6	3141.5
72.5°	165.6	358.1	2112.9	4085.0	6035.8	7300.3	7153.0	5994.7	3840.8	1860.7
75°	143.3	237.5	1036.2	2497.3	3659.5	3684.4	3740.6	2780.9	1919.9	884.8
77.5°	118.0	168.6	408.2	682.2	1097.5	1404.9	1457.0	1104.0	638.6	217.8
80°	81.0	80.0	109.9	209.2	314.0	393.5	367.2	284.1	167.1	83.6
82.5°	34.9	38.0	49.6	59.8	48.6	47.1	45.1	28.9	22.3	17.2
85°	11.1	10.1	10.6	10.6	8.6	6.6	6.6	3.0	0.0	0.0
87.5°	5.6	4.6	4.6	4.1	2.5	1.0	0.5	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°
29.4	0°	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
27.3	2.5°	26.8	26.8	25.8	24.8	24.3	23.3	22.8	22.3	21.8	21.3
29.4	5°	28.4	27.9	26.3	24.8	23.3	21.8	20.8	19.8	18.7	18.2
32.4	7.5°	30.9	29.9	26.8	24.3	22.3	20.3	19.2	17.7	16.7	15.2
36.0	10°	33.9	31.9	27.9	24.8	21.8	19.2	17.7	16.2	14.7	12.7
41.0	12.5°	38.0	34.4	29.4	24.3	20.8	17.7	16.2	14.2	12.7	11.1
47.6	15°	41.5	37.0	29.9	24.3	19.8	16.2	14.2	12.2	10.6	8.6
59.8	17.5°	46.6	39.0	29.4	22.8	18.2	14.2	12.2	10.6	8.1	5.1
88.6	20°	55.2	40.5	28.4	21.3	15.7	11.6	9.1	7.1	3.5	1.0
133.2	22.5°	68.9	44.6	27.3	19.2	13.7	9.1	6.1	2.5	0.0	0.0
202.6	25°	95.2	51.7	27.3	18.2	12.2	6.6	2.0	0.0	0.0	0.0
287.7	27.5°	126.6	61.3	27.3	15.7	9.6	3.5	0.0	0.0	0.0	0.0
392.0	30°	158.5	71.9	27.3	13.7	7.6	0.5	0.0	0.0	0.0	0.0
482.6	32.5°	188.9	81.0	27.9	11.6	5.1	0.0	0.0	0.0	0.0	0.0
608.2	35°	219.8	82.5	27.3	10.1	3.0	0.0	0.0	0.0	0.0	0.0
762.2	37.5°	259.3	79.5	25.8	9.1	1.5	0.0	0.0	0.0	0.0	0.0
1002.8	40°	319.1	81.0	24.3	8.6	0.5	0.0	0.0	0.0	0.0	0.0
1431.7	42.5°	429.5	87.6	22.3	8.6	0.0	0.0	0.0	0.0	0.0	0.0
2280.5	45°	742.4	117.5	20.3	9.1	0.0	0.0	0.0	0.0	0.0	0.0
3423.5	47.5°	1228.1	211.2	19.8	9.1	0.0	0.0	0.0	0.0	0.0	0.0
4123.9	50°	1567.4	265.9	20.8	9.6	0.0	0.0	0.0	0.0	0.0	0.0
4211.6	52.5°	1564.9	296.3	21.8	10.1	2.0	0.0	0.0	0.0	0.0	0.0
3881.9	55°	1391.2	301.8	23.3	11.1	6.6	0.0	0.0	0.0	0.0	0.0
3335.9	57.5°	1162.8	275.5	26.8	13.7	12.2	0.0	0.0	0.0	0.0	0.0
3250.3	58°	1122.3	263.3	27.9	14.2	13.2	0.0	0.0	0.0	0.0	0.0
2819.4	60°	919.7	214.7	35.5	17.7	17.7	0.0	0.0	0.0	0.0	0.0
2311.4	62.5°	635.1	187.4	40.5	22.8	18.2	0.0	0.0	0.0	0.0	0.0
1704.2	65°	449.2	169.2	44.1	24.3	14.7	0.0	0.0	0.0	0.0	0.0
1210.9	67.5°	335.8	156.0	48.6	24.8	7.6	0.0	0.0	0.0	0.0	0.0
759.7	70°	257.3	146.4	59.8	26.3	2.0	0.0	0.0	0.0	0.0	0.0
452.8	72.5°	209.7	135.2	72.4	27.3	0.0	0.0	0.0	0.0	0.0	0.0
271.5	75°	173.7	122.1	69.9	29.9	0.0	0.0	0.0	0.0	0.0	0.0
144.8	77.5°	115.5	94.7	63.8	29.9	0.0	0.0	0.0	0.0	0.0	0.0
51.7	80°	40.5	37.5	49.6	26.3	0.0	0.0	0.0	0.0	0.0	0.0
10.6	82.5°	6.1	5.1	7.1	9.1	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°
29.4	0°	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
20.8	2.5°	20.8	20.8	20.3	20.8	20.8	21.8	24.3	27.9	31.9	33.4
17.7	5°	17.2	16.7	16.2	16.2	16.2	17.7	19.8	23.8	28.4	30.4
14.7	7.5°	14.2	13.7	13.2	12.7	12.7	13.7	16.2	20.8	25.3	27.3
12.2	10°	11.6	10.6	10.1	9.6	9.6	10.6	13.2	17.7	22.8	24.8
10.1	12.5°	9.6	8.1	7.1	6.6	6.1	7.6	10.1	14.2	19.8	22.3
7.6	15°	6.6	5.1	3.5	3.0	2.5	4.1	6.6	11.1	16.7	19.8
4.1	17.5°	3.5	1.5	0.5	0.0	0.0	1.0	3.0	8.1	13.7	16.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	10.1	12.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	6.1	8.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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	1.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.1
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°
29.4	0°	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
34.9	2.5°	36.0	35.5	34.4	33.4	33.4	33.4	34.9	36.5	38.0	38.0
31.4	5°	33.4	33.4	32.9	31.9	31.9	32.4	34.4	37.0	39.0	39.5
28.9	7.5°	30.9	31.9	30.9	30.4	30.9	31.4	33.4	36.5	39.5	40.5
26.8	10°	29.4	29.9	29.9	29.4	29.4	30.4	32.4	36.5	40.5	42.0
24.3	12.5°	27.3	28.4	27.9	27.9	27.9	28.9	31.4	36.0	41.5	43.6
21.8	15°	25.3	26.8	26.8	26.3	26.3	26.8	30.4	35.5	43.0	46.6
18.7	17.5°	23.3	24.8	25.3	24.3	24.3	25.3	28.9	35.5	44.1	50.1
15.2	20°	19.2	21.8	23.3	21.8	21.8	22.8	26.3	33.4	44.6	53.7
11.1	22.5°	15.2	17.7	19.8	19.2	19.2	19.8	24.3	31.9	45.1	59.8
6.6	25°	11.1	13.7	15.2	16.2	16.2	17.7	22.3	30.9	47.1	72.4
3.0	27.5°	6.6	9.6	11.6	12.7	13.2	15.2	20.8	29.9	50.6	90.7
0.0	30°	3.0	5.6	8.1	10.1	10.1	13.7	19.2	28.9	55.2	117.0
0.0	32.5°	0.0	2.5	4.1	7.1	7.6	11.1	17.7	27.9	61.8	142.3
0.0	35°	0.0	0.0	2.0	5.6	5.6	9.1	16.2	26.8	71.9	161.6
0.0	37.5°	0.0	0.0	0.0	4.1	4.6	8.1	15.7	26.3	73.9	163.1
0.0	40°	0.0	0.0	0.0	3.0	3.5	7.6	15.7	26.8	66.9	159.5
0.0	42.5°	0.0	0.0	0.0	2.0	2.5	7.6	15.7	27.9	60.3	163.6
0.0	45°	0.0	0.0	0.0	1.5	2.0	8.1	15.2	27.3	56.7	184.9
0.0	47.5°	0.0	0.0	0.0	2.0	3.0	8.1	14.7	26.8	57.2	255.2
0.0	50°	0.0	0.0	0.0	2.5	3.5	8.1	15.2	25.8	62.8	392.5
0.0	52.5°	0.0	0.0	0.0	2.0	3.0	9.1	16.7	25.3	68.4	510.5
0.0	55°	0.0	0.0	0.0	0.5	1.5	11.6	18.2	25.3	77.0	539.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	13.2	20.8	26.8	91.2	528.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	13.2	21.3	26.8	92.2	518.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	13.2	23.3	29.9	99.3	461.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	11.1	27.9	37.5	103.3	362.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	9.1	32.9	41.0	106.4	288.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	8.6	33.9	41.5	107.9	229.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	9.1	33.4	44.6	112.9	186.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	10.1	30.4	49.1	112.9	165.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	10.6	28.4	55.2	102.8	143.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	10.1	27.9	64.3	91.7	118.0
0.0	80°	1.0	1.5	1.5	1.0	1.0	8.6	27.3	65.3	78.0	81.0
0.5	82.5°	3.0	4.1	3.5	2.5	2.5	7.6	24.3	54.7	40.5	34.9
3.0	85°	5.6	6.6	6.6	5.6	5.6	7.1	15.2	19.8	13.7	11.1
5.6	87.5°	7.6	8.6	8.6	7.6	7.6	7.1	6.6	6.1	5.6	5.6
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: SP1-2407-184-7

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-757-U-5WQ

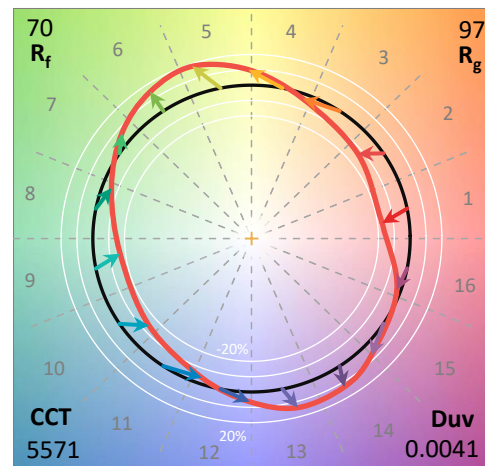
Data in this report applies to families of products including GSS-SB1A-757-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-7
 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-757-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5700K CCT 26 LEDS

Spectral Parameters

CCT (K):	5571	CRI (Ra):	69.9		
CIE u':	0.2033	R1:	68.8	R9:	-35.4
CIE v':	0.4806	R2:	72.5	R10:	36.7
Duv:	0.0041	R3:	76.8	R11:	73.9
CIE x:	0.3308	R4:	72.0	R12:	47.8
CIE y:	0.3476	R5:	70.9	R13:	68.0
CIE z:	0.3216	R6:	65.6	R14:	87.0
Peak Wavelength (nm):	442	R7:	75.5	R15:	59.8
Dominant Wavelength (nm):	544	R8:	56.8		
Purity:	3.635698				
Rf:	70.4				
Rg:	97.1				



Test Conditions

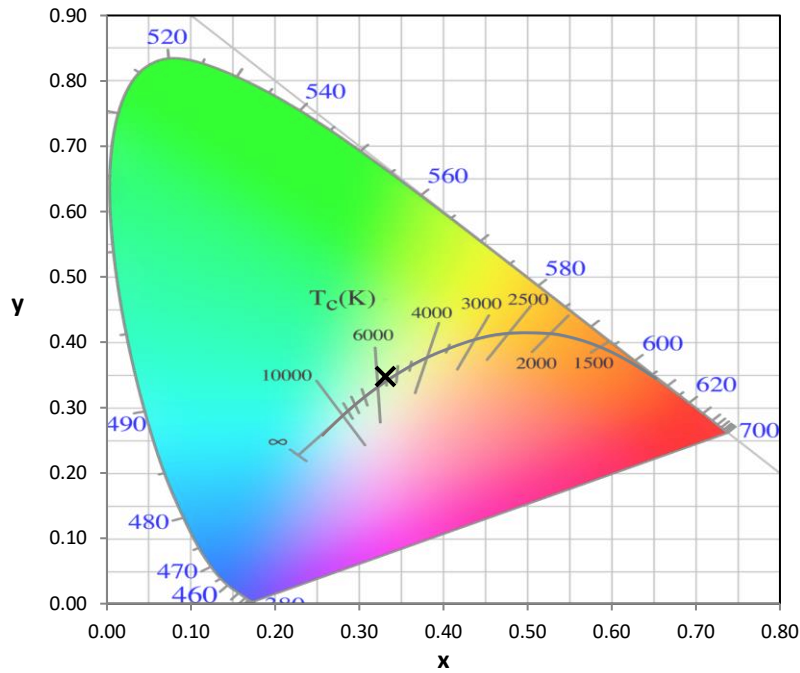
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-7

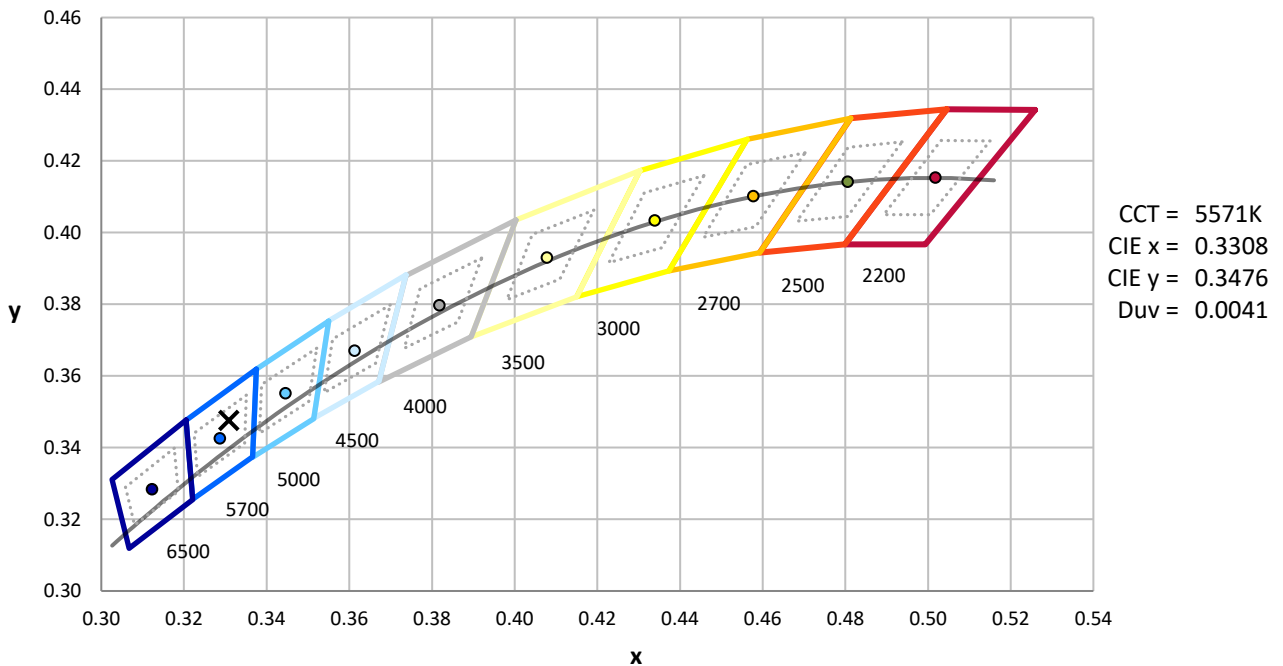
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



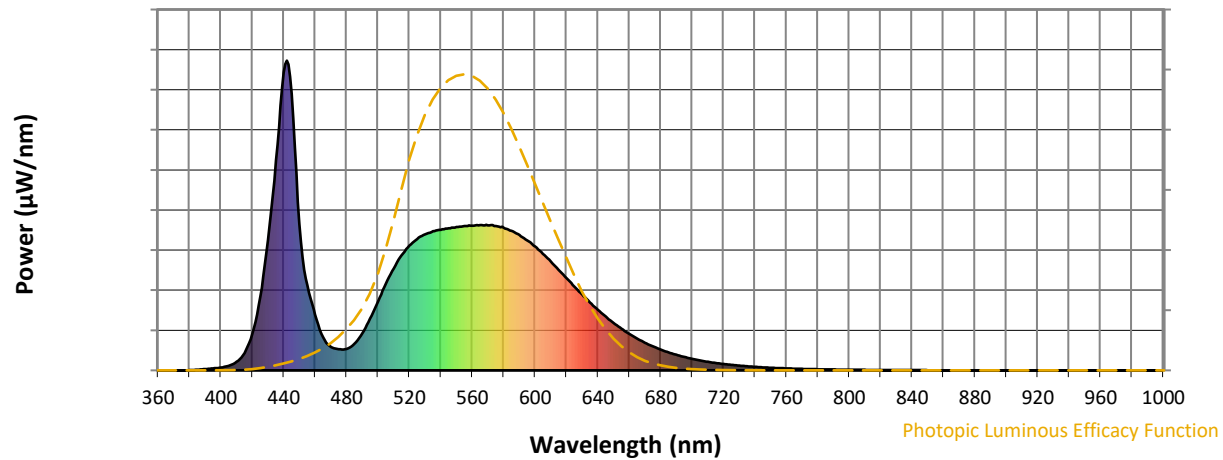
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-7

Photopic Flux vs. Wavelength

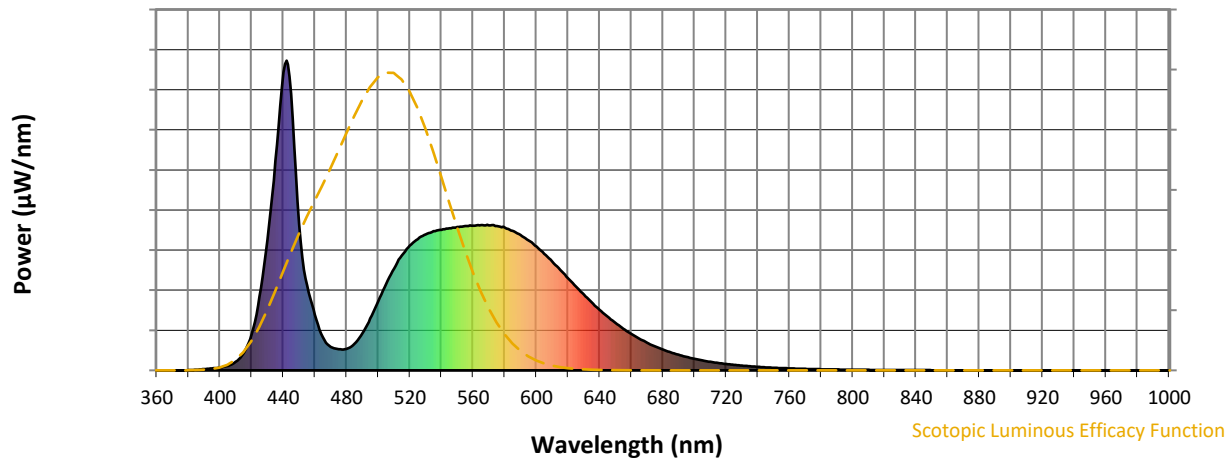


Photopic Lumens: NR

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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-7

Scotopic Flux vs. Wavelength



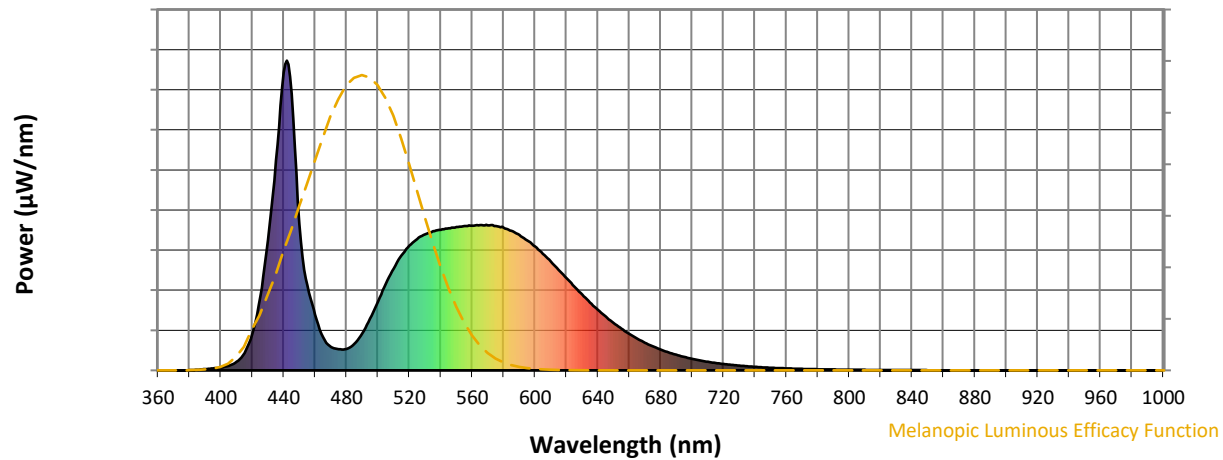
Scotopic Lumens: NR

S/P: 1.84

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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.71

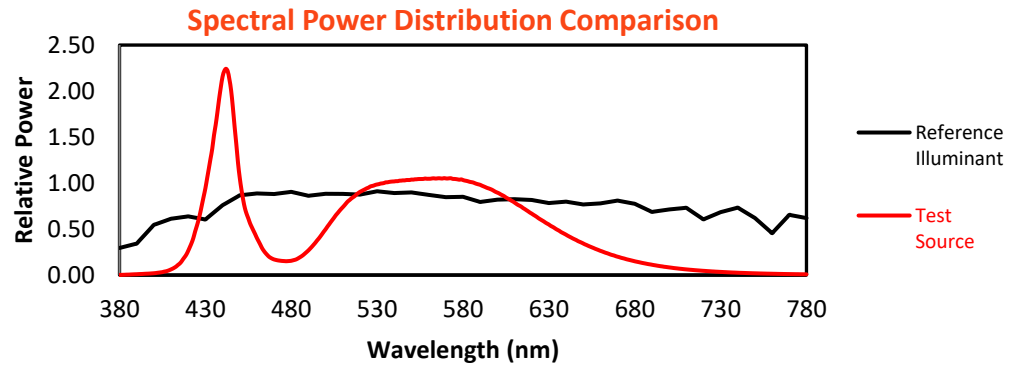
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

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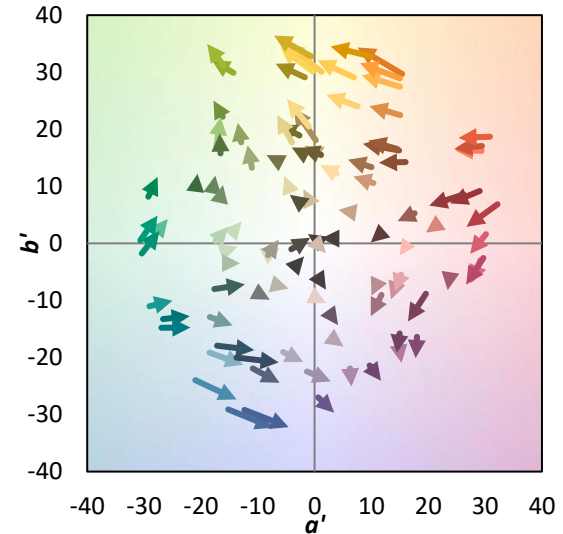
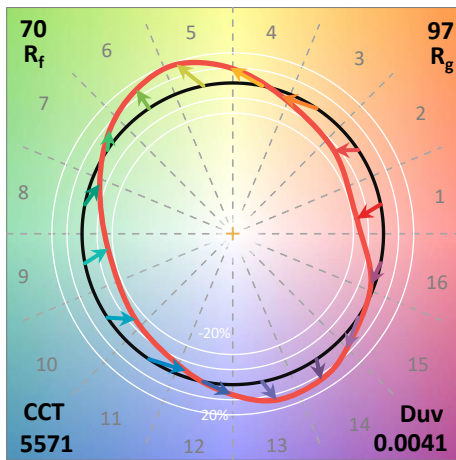
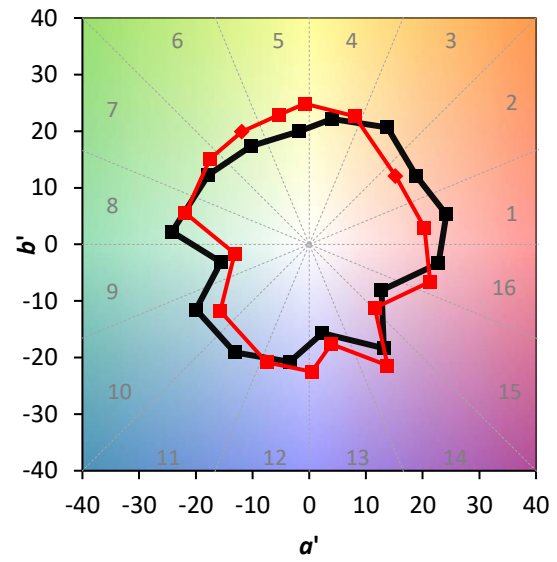
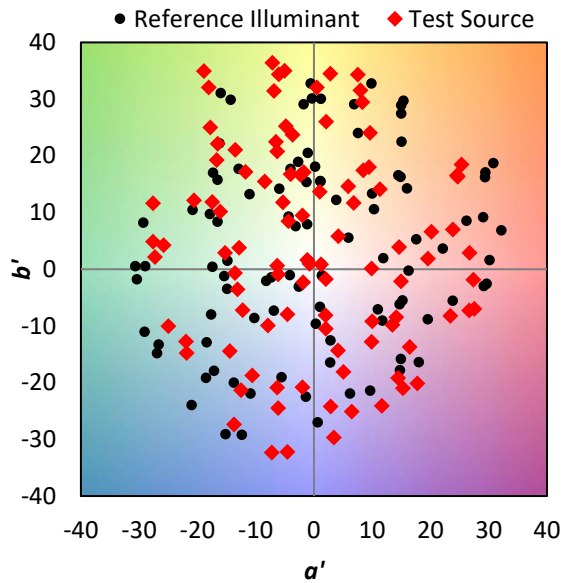
TM-30-18

Summary

$R_f = 70.4$
 $R_g = 97.1$
 $CIE R_a = 69.9$
 $R_g = -35.4$

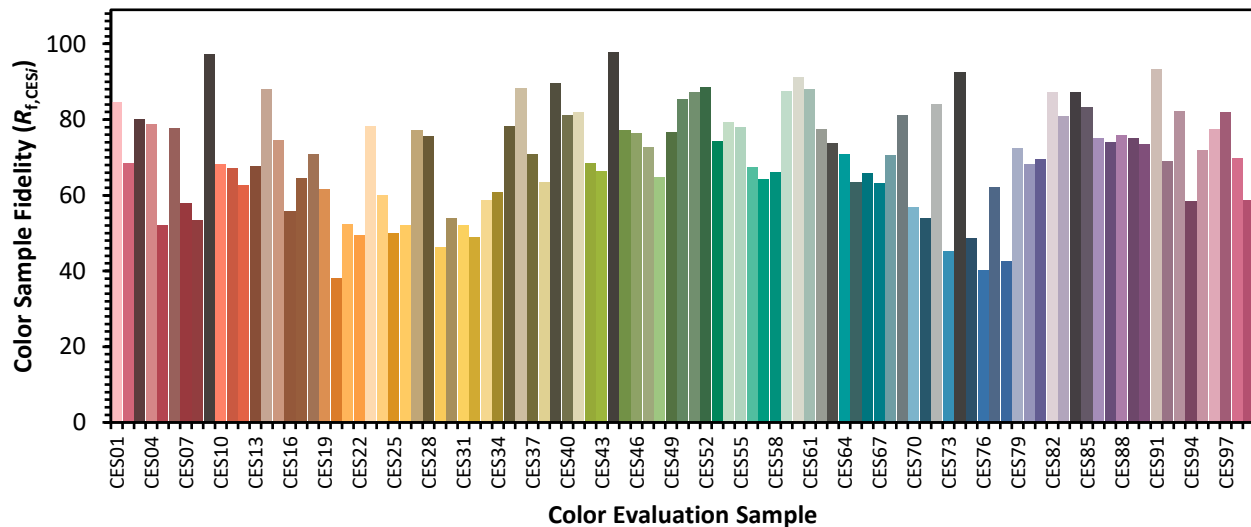


Color Vector Graphics

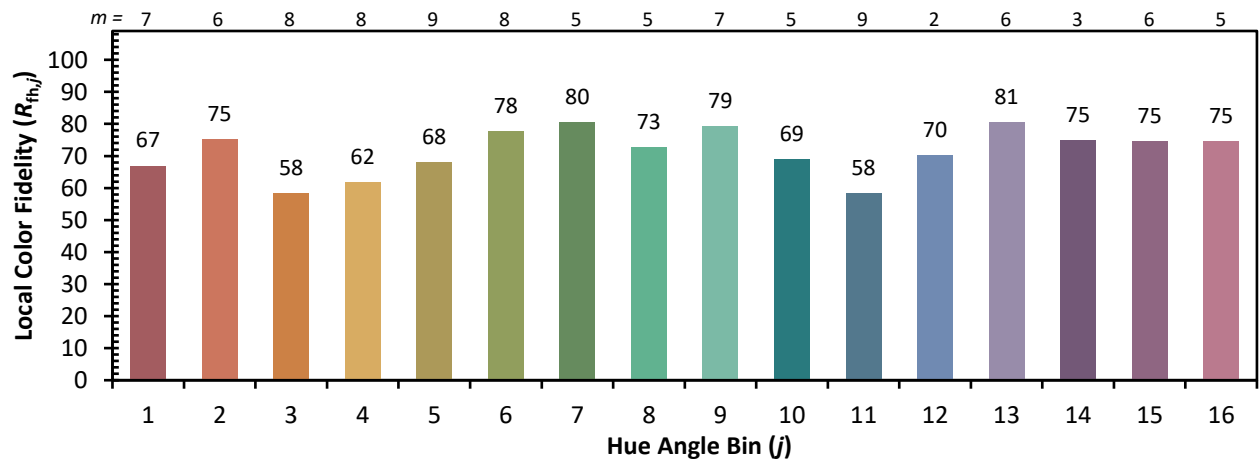
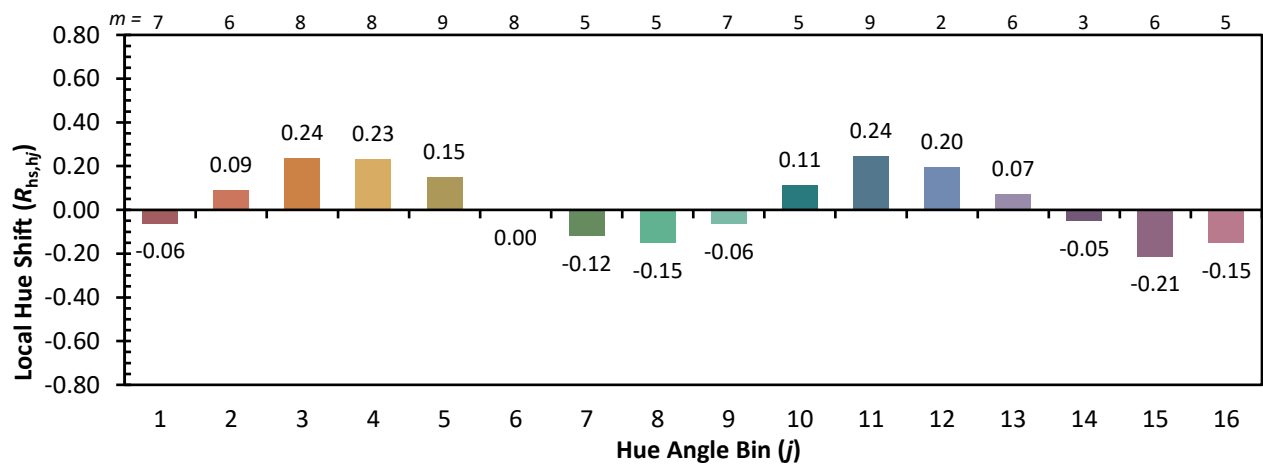
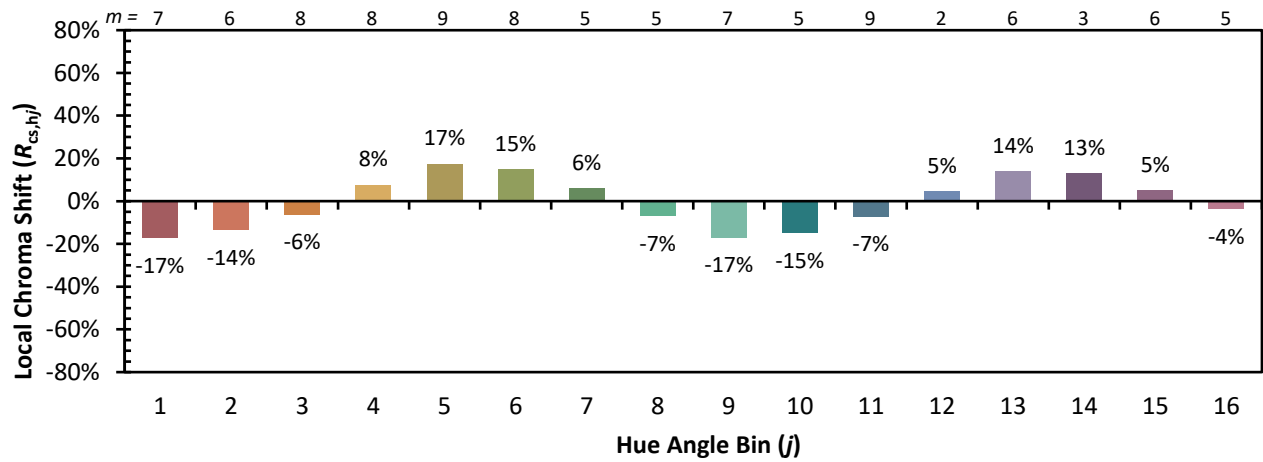


Individual Sample Fidelity Index ($R_{f,i}$)

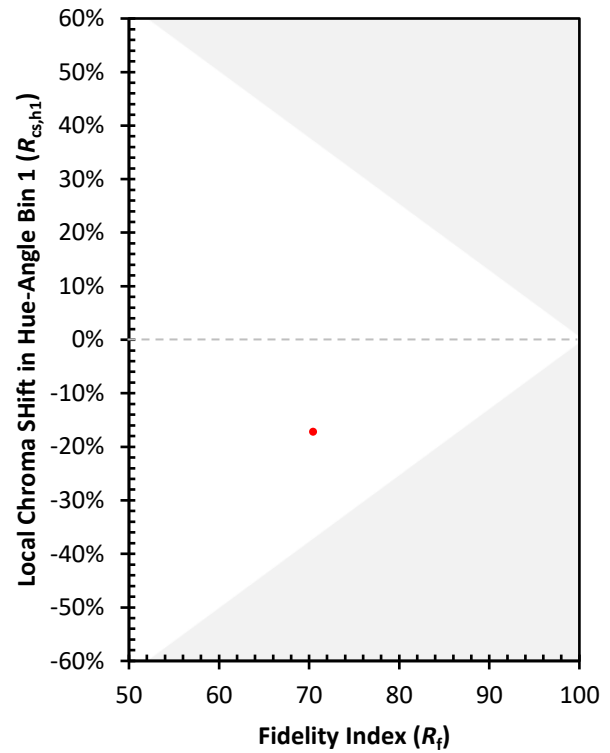
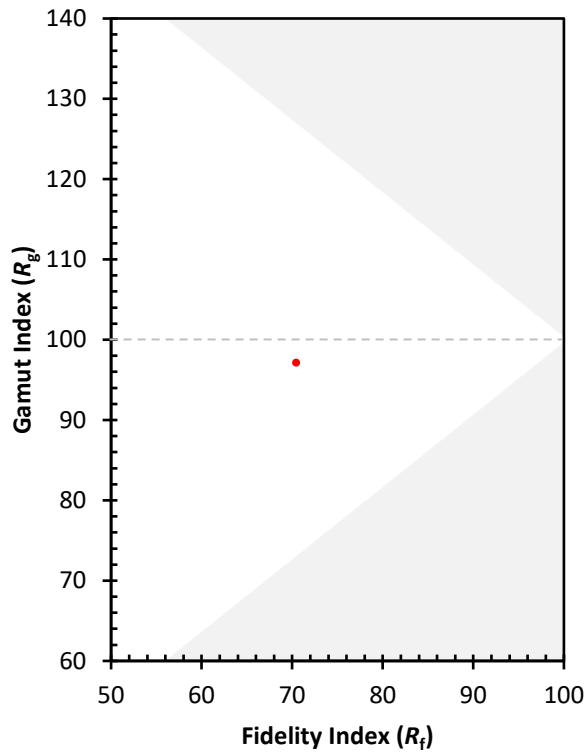
CES01 = 85	CES26 = 52	CES51 = 87	CES76 = 40
CES02 = 59	CES27 = 77	CES52 = 88	CES77 = 62
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 43
CES04 = 68	CES29 = 46	CES54 = 79	CES79 = 72
CES05 = 45	CES30 = 54	CES55 = 78	CES80 = 68
CES06 = 49	CES31 = 52	CES56 = 67	CES81 = 70
CES07 = 38	CES32 = 49	CES57 = 64	CES82 = 87
CES08 = 37	CES33 = 59	CES58 = 66	CES83 = 81
CES09 = 29	CES34 = 61	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 78	CES60 = 91	CES85 = 83
CES11 = 55	CES36 = 88	CES61 = 88	CES86 = 75
CES12 = 61	CES37 = 71	CES62 = 77	CES87 = 74
CES13 = 41	CES38 = 64	CES63 = 74	CES88 = 76
CES14 = 74	CES39 = 90	CES64 = 71	CES89 = 75
CES15 = 70	CES40 = 81	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 82	CES66 = 66	CES91 = 93
CES17 = 48	CES42 = 69	CES67 = 63	CES92 = 69
CES18 = 55	CES43 = 67	CES68 = 71	CES93 = 82
CES19 = 70	CES44 = 98	CES69 = 81	CES94 = 58
CES20 = 63	CES45 = 77	CES70 = 57	CES95 = 72
CES21 = 85	CES46 = 76	CES71 = 54	CES96 = 78
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 45	CES98 = 70
CES24 = 90	CES49 = 77	CES74 = 92	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)