

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: STREETWORKS

Report Number: P1065209

Luminaire Tested: **GLAN-SA2A-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065209
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6481.9 lumens
Efficiency: N/A
Efficacy: 116.2 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

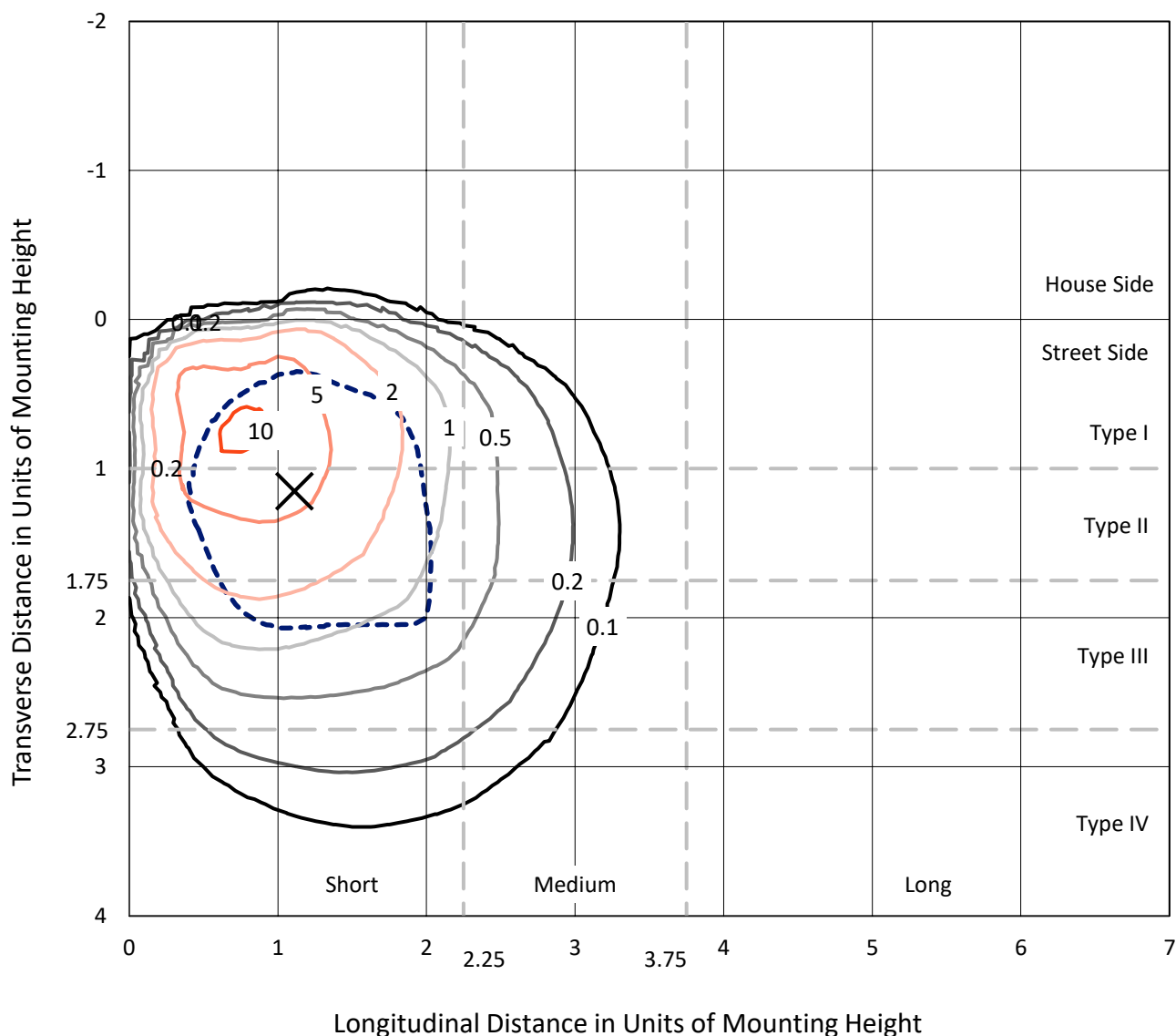
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

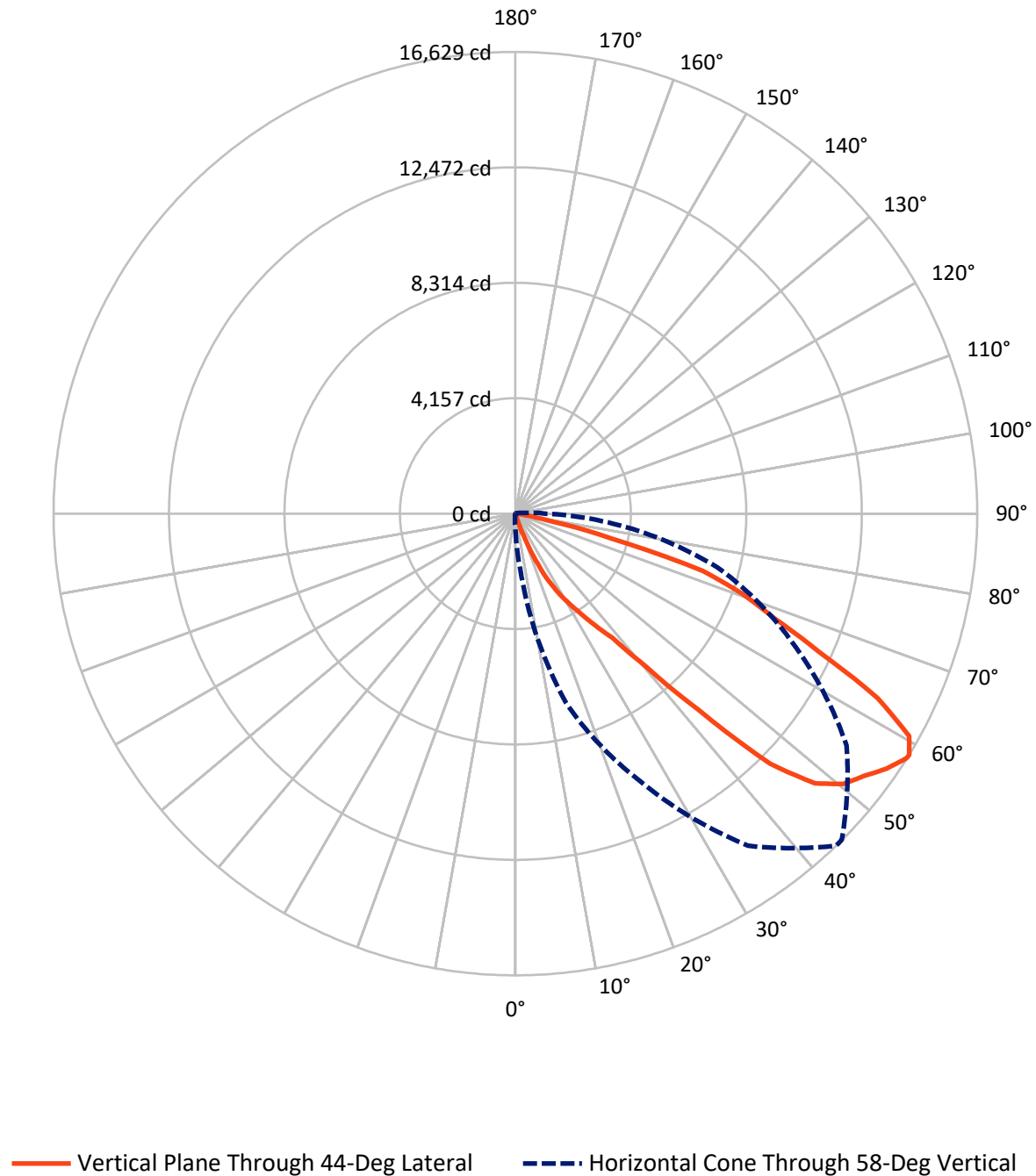


Based on 20 foot mounting height. Maximum calculated value = 11.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	44.3	0.0	44.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	6437.7	0.0	6437.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	6481.9	0.0	6481.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.0
10°-20°	14.2	0.2
20°-30°	153.6	2.4
30°-40°	454.1	7.0
40°-50°	1353.5	20.9
50°-60°	2147.7	33.1
60°-70°	1791.5	27.6
70°-80°	552.5	8.5
80°-90°	12.3	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°	6481.9	100.0
0°-180°	6481.9	100.0

Coefficient of Utilization



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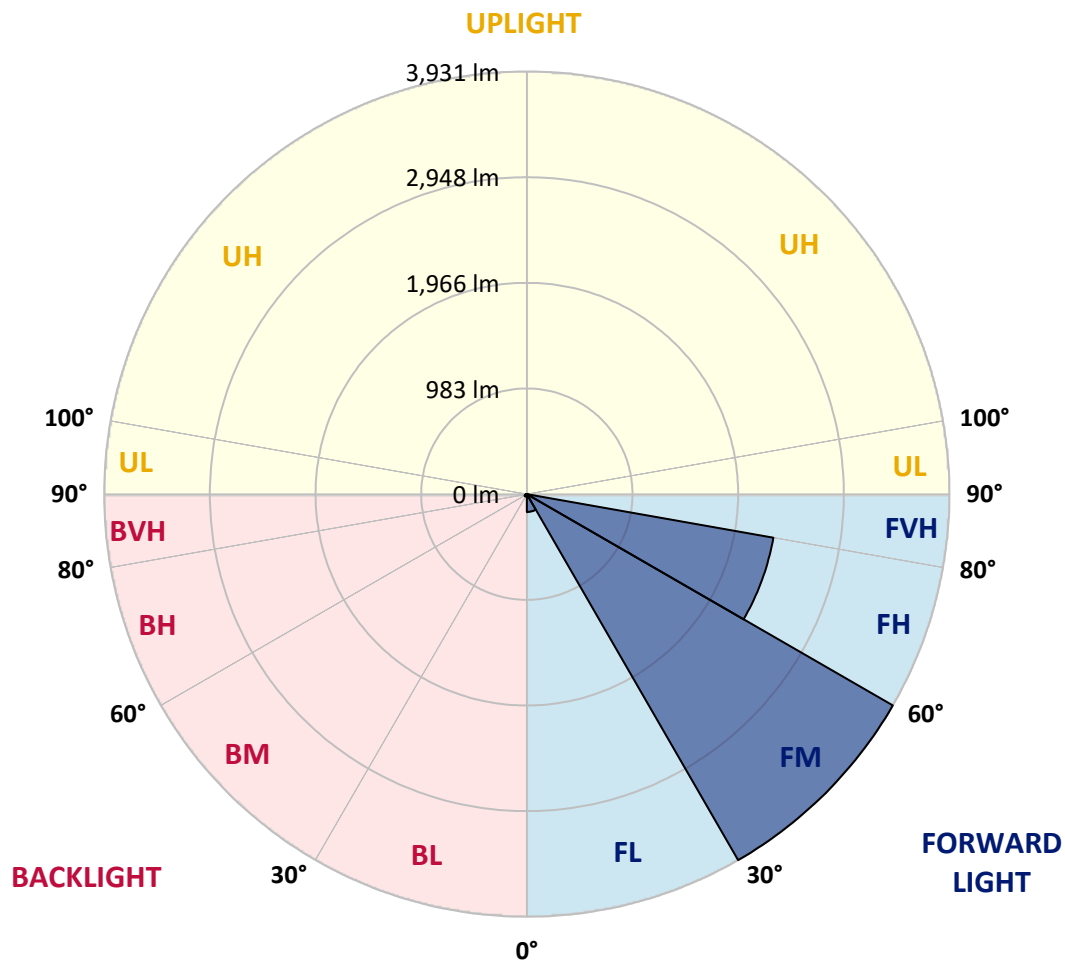
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	166.0	2.6			
FM	(30°-60°)	3931.2	60.6			
FH	(60°-80°)	2328.9	35.9			G2/5000
FVH	(80°-90°)	11.7	0.2			G1/100
BL	(0°-30°)	4.3	0.1	B0/110		
BM	(30°-60°)	24.2	0.4	B0/220		
BH	(60°-80°)	15.1	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°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
2.5°	36.7	36.7	35.3	33.3	31.3	29.4	28.9	27.9	27.4	26.9
5°	38.2	38.2	37.7	36.2	34.3	32.8	32.8	31.3	30.4	29.4
7.5°	39.2	39.7	40.6	40.2	39.2	37.7	37.7	36.7	35.3	32.8
10°	40.6	42.1	44.1	45.0	45.5	45.5	45.0	44.6	42.1	38.7
12.5°	42.1	45.0	49.9	54.8	57.8	61.7	61.2	60.2	53.9	46.5
15°	45.0	49.5	59.7	73.9	96.0	109.7	115.1	110.2	89.1	62.7
17.5°	48.5	55.8	86.7	154.7	253.6	300.6	329.0	306.0	202.7	119.0
20°	51.9	68.1	161.1	401.0	658.1	811.8	854.4	787.9	505.8	226.7
22.5°	57.8	95.5	326.6	829.0	1418.0	1648.7	1692.2	1479.2	955.3	447.5
25°	70.0	138.6	563.1	1351.0	2116.3	2505.6	2487.4	2208.3	1549.8	714.9
27.5°	87.6	201.7	851.5	1919.4	2785.2	3128.4	3169.5	2824.3	2065.9	1051.3
30°	113.1	279.6	1161.0	2374.8	3321.3	3692.5	3699.3	3342.4	2527.6	1346.6
32.5°	137.6	353.0	1431.8	2815.0	3849.7	4256.6	4286.9	3847.7	2872.3	1654.1
35°	156.2	401.0	1706.0	3201.9	4382.4	4943.1	4941.1	4419.6	3280.7	1928.8
37.5°	157.7	449.0	1954.2	3597.5	5057.2	5684.9	5747.1	5172.2	3774.3	2268.6
40°	154.2	502.9	2268.6	4214.5	6273.0	7236.1	7291.0	6566.3	4764.3	2850.3
42.5°	158.2	596.4	2778.8	5353.9	8291.8	9675.1	9780.9	9019.0	6584.4	4037.2
45°	178.7	772.2	3847.7	7260.1	11169.5	12855.9	12820.6	11723.3	8702.2	5844.0
47.5°	246.8	1202.6	5432.2	9115.4	13008.7	14510.4	14540.8	13199.6	9938.0	7233.2
50°	379.5	1840.1	6763.6	10096.2	13799.5	15306.1	15277.7	13728.0	10407.6	7917.2
52.5°	493.6	2301.4	7431.5	10440.4	13900.8	15699.3	15697.4	13867.0	10480.6	7976.0
55°	522.0	2336.1	7436.9	10459.0	14128.0	16214.0	16278.6	14209.3	10575.1	7719.4
57.5°	510.7	2068.3	7126.4	10566.8	14532.5	16612.0	16615.5	14540.8	10815.0	7562.2
58°	500.9	2026.2	7063.8	10628.0	14602.0	16628.7	16620.4	14556.0	11010.4	7556.4
60°	446.1	1759.3	6819.4	10784.2	14498.7	16286.9	16209.1	14224.5	10981.5	7496.1
62.5°	350.6	1372.5	6579.0	10603.5	13391.1	14632.4	14664.7	12593.4	10011.0	7145.0
65°	279.1	1022.9	6077.6	9301.0	11027.0	12016.1	12136.6	10240.6	8356.0	6050.2
67.5°	222.3	739.4	5098.3	7405.1	8725.7	10028.6	10116.3	8597.9	6473.7	4635.6
70°	180.7	499.9	3519.2	5415.6	7197.0	8662.0	8667.4	7142.6	4831.9	3037.3
72.5°	160.1	346.2	2042.8	3949.6	5835.7	7058.4	6915.9	5796.0	3713.5	1799.0
75°	138.6	229.6	1001.8	2414.5	3538.2	3562.2	3616.6	2688.7	1856.3	855.4
77.5°	114.1	163.1	394.7	659.6	1061.1	1358.3	1408.7	1067.4	617.5	210.6
80°	78.3	77.4	106.3	202.2	303.6	380.5	355.0	274.7	161.6	80.8
82.5°	33.8	36.7	48.0	57.8	47.0	45.5	43.6	27.9	21.5	16.6
85°	10.8	9.8	10.3	10.3	8.3	6.4	6.4	2.9	0.0	0.0
87.5°	5.4	4.4	4.4	3.9	2.4	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°
28.4	0°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
26.4	2.5°	26.0	26.0	25.0	24.0	23.5	22.5	22.0	21.5	21.1	20.6
28.4	5°	27.4	26.9	25.5	24.0	22.5	21.1	20.1	19.1	18.1	17.6
31.3	7.5°	29.9	28.9	26.0	23.5	21.5	19.6	18.6	17.1	16.2	14.7
34.8	10°	32.8	30.8	26.9	24.0	21.1	18.6	17.1	15.7	14.2	12.2
39.7	12.5°	36.7	33.3	28.4	23.5	20.1	17.1	15.7	13.7	12.2	10.8
46.0	15°	40.2	35.7	28.9	23.5	19.1	15.7	13.7	11.8	10.3	8.3
57.8	17.5°	45.0	37.7	28.4	22.0	17.6	13.7	11.8	10.3	7.8	4.9
85.7	20°	53.4	39.2	27.4	20.6	15.2	11.3	8.8	6.9	3.4	1.0
128.8	22.5°	66.6	43.1	26.4	18.6	13.2	8.8	5.9	2.4	0.0	0.0
195.9	25°	92.1	49.9	26.4	17.6	11.8	6.4	2.0	0.0	0.0	0.0
278.1	27.5°	122.4	59.2	26.4	15.2	9.3	3.4	0.0	0.0	0.0	0.0
379.0	30°	153.3	69.5	26.4	13.2	7.3	0.5	0.0	0.0	0.0	0.0
466.6	32.5°	182.6	78.3	26.9	11.3	4.9	0.0	0.0	0.0	0.0	0.0
588.1	35°	212.5	79.8	26.4	9.8	2.9	0.0	0.0	0.0	0.0	0.0
736.9	37.5°	250.7	76.9	25.0	8.8	1.5	0.0	0.0	0.0	0.0	0.0
969.5	40°	308.5	78.3	23.5	8.3	0.5	0.0	0.0	0.0	0.0	0.0
1384.3	42.5°	415.2	84.7	21.5	8.3	0.0	0.0	0.0	0.0	0.0	0.0
2204.9	45°	717.8	113.6	19.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0
3310.1	47.5°	1187.4	204.2	19.1	8.8	0.0	0.0	0.0	0.0	0.0	0.0
3987.3	50°	1515.5	257.1	20.1	9.3	0.0	0.0	0.0	0.0	0.0	0.0
4072.0	52.5°	1513.0	286.4	21.1	9.8	2.0	0.0	0.0	0.0	0.0	0.0
3753.2	55°	1345.1	291.8	22.5	10.8	6.4	0.0	0.0	0.0	0.0	0.0
3225.4	57.5°	1124.2	266.4	26.0	13.2	11.8	0.0	0.0	0.0	0.0	0.0
3142.6	58°	1085.1	254.6	26.9	13.7	12.7	0.0	0.0	0.0	0.0	0.0
2725.9	60°	889.2	207.6	34.3	17.1	17.1	0.0	0.0	0.0	0.0	0.0
2234.8	62.5°	614.0	181.2	39.2	22.0	17.6	0.0	0.0	0.0	0.0	0.0
1647.7	65°	434.3	163.5	42.6	23.5	14.2	0.0	0.0	0.0	0.0	0.0
1170.8	67.5°	324.6	150.8	47.0	24.0	7.3	0.0	0.0	0.0	0.0	0.0
734.5	70°	248.7	141.5	57.8	25.5	2.0	0.0	0.0	0.0	0.0	0.0
437.8	72.5°	202.7	130.7	70.0	26.4	0.0	0.0	0.0	0.0	0.0	0.0
262.5	75°	168.0	118.0	67.6	28.9	0.0	0.0	0.0	0.0	0.0	0.0
140.0	77.5°	111.6	91.6	61.7	28.9	0.0	0.0	0.0	0.0	0.0	0.0
49.9	80°	39.2	36.2	48.0	25.5	0.0	0.0	0.0	0.0	0.0	0.0
10.3	82.5°	5.9	4.9	6.9	8.8	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°
28.4	0°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
20.1	2.5°	20.1	20.1	19.6	20.1	20.1	21.1	23.5	26.9	30.8	32.3
17.1	5°	16.6	16.2	15.7	15.7	15.7	17.1	19.1	23.0	27.4	29.4
14.2	7.5°	13.7	13.2	12.7	12.2	12.2	13.2	15.7	20.1	24.5	26.4
11.8	10°	11.3	10.3	9.8	9.3	9.3	10.3	12.7	17.1	22.0	24.0
9.8	12.5°	9.3	7.8	6.9	6.4	5.9	7.3	9.8	13.7	19.1	21.5
7.3	15°	6.4	4.9	3.4	2.9	2.4	3.9	6.4	10.8	16.2	19.1
3.9	17.5°	3.4	1.5	0.5	0.0	0.0	1.0	2.9	7.8	13.2	15.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	9.8	12.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.9	8.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.4
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	3.9
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°
28.4	0°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
33.8	2.5°	34.8	34.3	33.3	32.3	32.3	32.3	33.8	35.3	36.7	36.7
30.4	5°	32.3	32.3	31.8	30.8	30.8	31.3	33.3	35.7	37.7	38.2
27.9	7.5°	29.9	30.8	29.9	29.4	29.9	30.4	32.3	35.3	38.2	39.2
26.0	10°	28.4	28.9	28.9	28.4	28.4	29.4	31.3	35.3	39.2	40.6
23.5	12.5°	26.4	27.4	26.9	26.9	26.9	27.9	30.4	34.8	40.2	42.1
21.1	15°	24.5	26.0	26.0	25.5	25.5	26.0	29.4	34.3	41.6	45.0
18.1	17.5°	22.5	24.0	24.5	23.5	23.5	24.5	27.9	34.3	42.6	48.5
14.7	20°	18.6	21.1	22.5	21.1	21.1	22.0	25.5	32.3	43.1	51.9
10.8	22.5°	14.7	17.1	19.1	18.6	18.6	19.1	23.5	30.8	43.6	57.8
6.4	25°	10.8	13.2	14.7	15.7	15.7	17.1	21.5	29.9	45.5	70.0
2.9	27.5°	6.4	9.3	11.3	12.2	12.7	14.7	20.1	28.9	49.0	87.6
0.0	30°	2.9	5.4	7.8	9.8	9.8	13.2	18.6	27.9	53.4	113.1
0.0	32.5°	0.0	2.4	3.9	6.9	7.3	10.8	17.1	26.9	59.7	137.6
0.0	35°	0.0	0.0	2.0	5.4	5.4	8.8	15.7	26.0	69.5	156.2
0.0	37.5°	0.0	0.0	0.0	3.9	4.4	7.8	15.2	25.5	71.5	157.7
0.0	40°	0.0	0.0	0.0	2.9	3.4	7.3	15.2	26.0	64.6	154.2
0.0	42.5°	0.0	0.0	0.0	2.0	2.4	7.3	15.2	26.9	58.3	158.2
0.0	45°	0.0	0.0	0.0	1.5	2.0	7.8	14.7	26.4	54.8	178.7
0.0	47.5°	0.0	0.0	0.0	2.0	2.9	7.8	14.2	26.0	55.3	246.8
0.0	50°	0.0	0.0	0.0	2.4	3.4	7.8	14.7	25.0	60.7	379.5
0.0	52.5°	0.0	0.0	0.0	2.0	2.9	8.8	16.2	24.5	66.1	493.6
0.0	55°	0.0	0.0	0.0	0.5	1.5	11.3	17.6	24.5	74.4	522.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	12.7	20.1	26.0	88.1	510.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	12.7	20.6	26.0	89.1	500.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	12.7	22.5	28.9	96.0	446.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	10.8	26.9	36.2	99.9	350.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	8.8	31.8	39.7	102.8	279.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	8.3	32.8	40.2	104.3	222.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	8.8	32.3	43.1	109.2	180.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	9.8	29.4	47.5	109.2	160.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	10.3	27.4	53.4	99.4	138.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	9.8	26.9	62.2	88.6	114.1
0.0	80°	1.0	1.5	1.5	1.0	1.0	8.3	26.4	63.2	75.4	78.3
0.5	82.5°	2.9	3.9	3.4	2.4	2.4	7.3	23.5	52.9	39.2	33.8
2.9	85°	5.4	6.4	6.4	5.4	5.4	6.9	14.7	19.1	13.2	10.8
5.4	87.5°	7.3	8.3	8.3	7.3	7.3	6.9	6.4	5.9	5.4	5.4
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

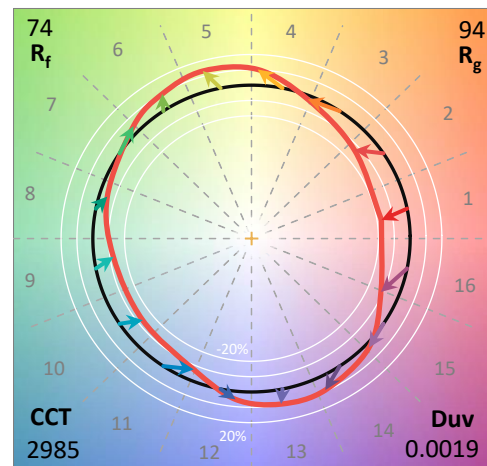
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2985
 CIE u' : 0.2504
 CIE v' : 0.5243
 Duv: 0.0019
 CIE x: 0.4408
 CIE y: 0.4101
 CIE z: 0.1491
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 55.41818
 R_f: 73.8
 R_g: 94.4

CRI (Ra): 70.8
 R1: 66.3
 R2: 80.6
 R3: 94.5
 R4: 68.2
 R5: 66.5
 R6: 74.7
 R7: 76.2
 R8: 39.6
 R9: -43.2
 R10: 57.6
 R11: 64.8
 R12: 53.5
 R13: 68.7
 R14: 97.0
 R15: 56.4



Test Conditions

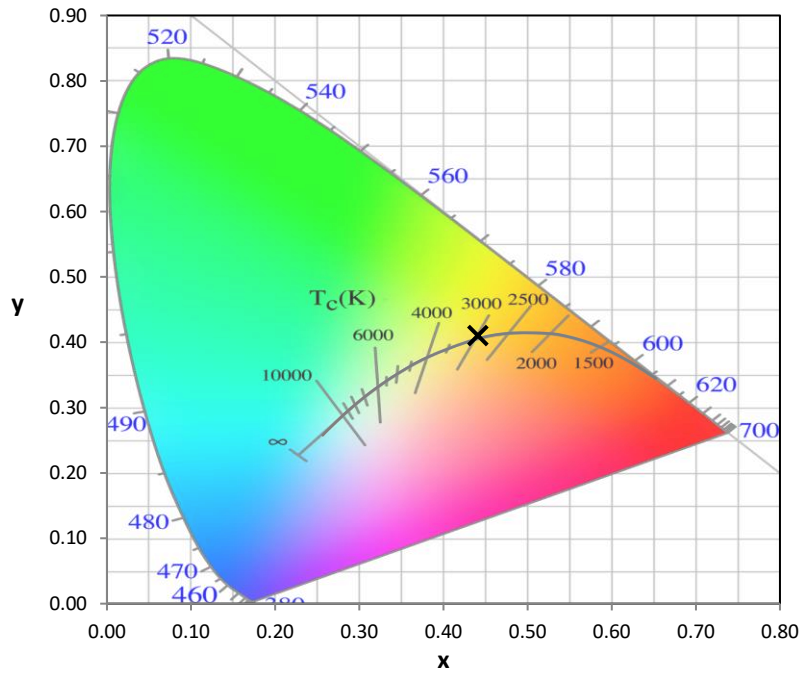
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

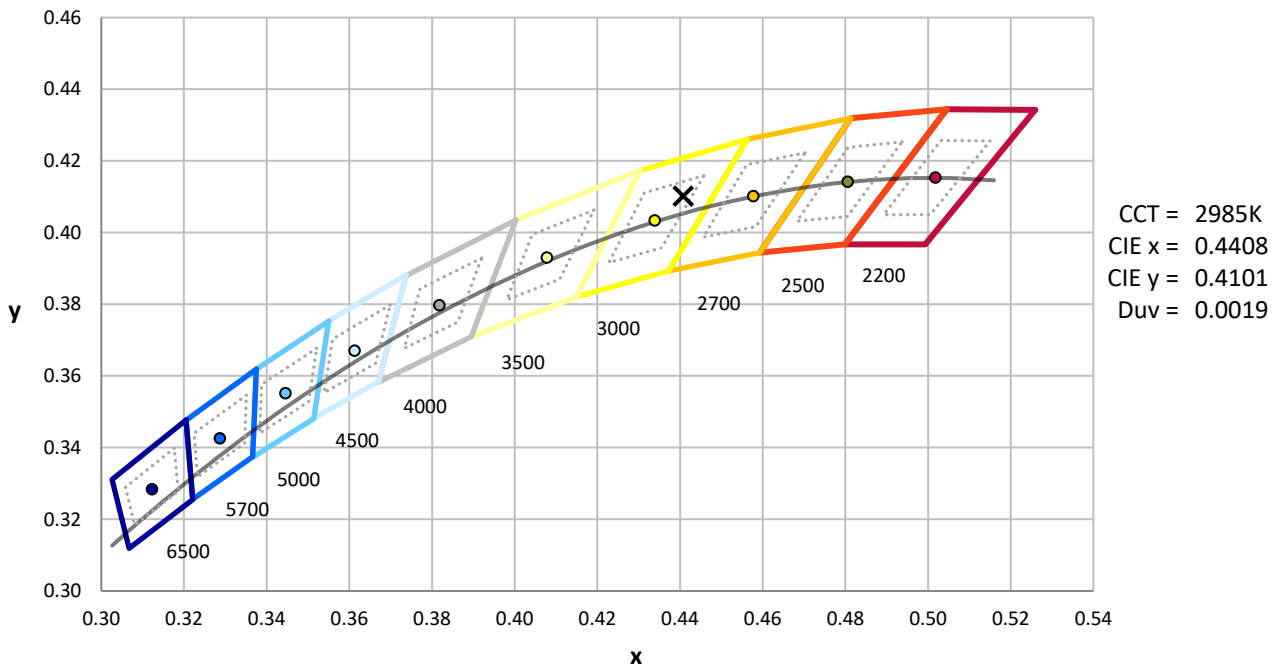
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



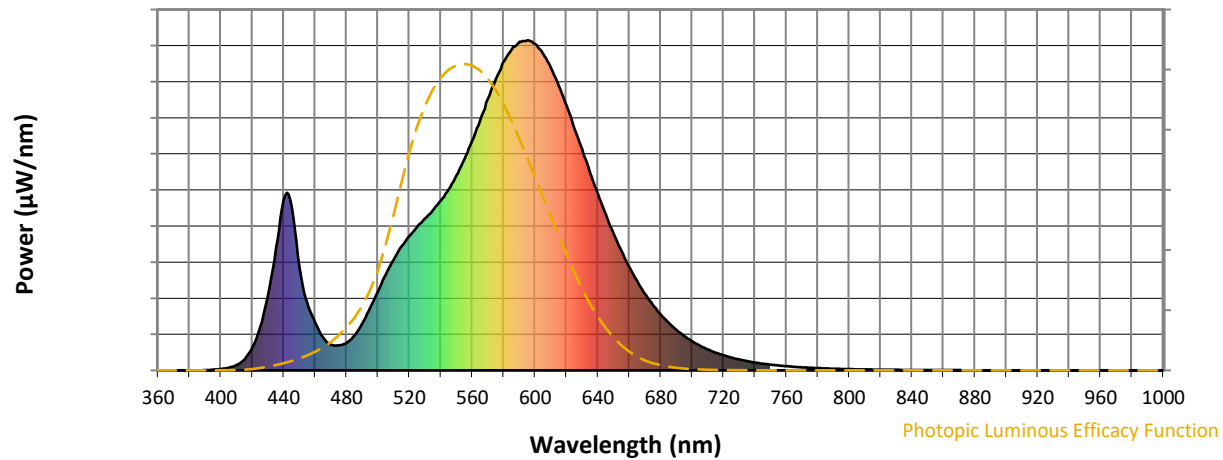
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

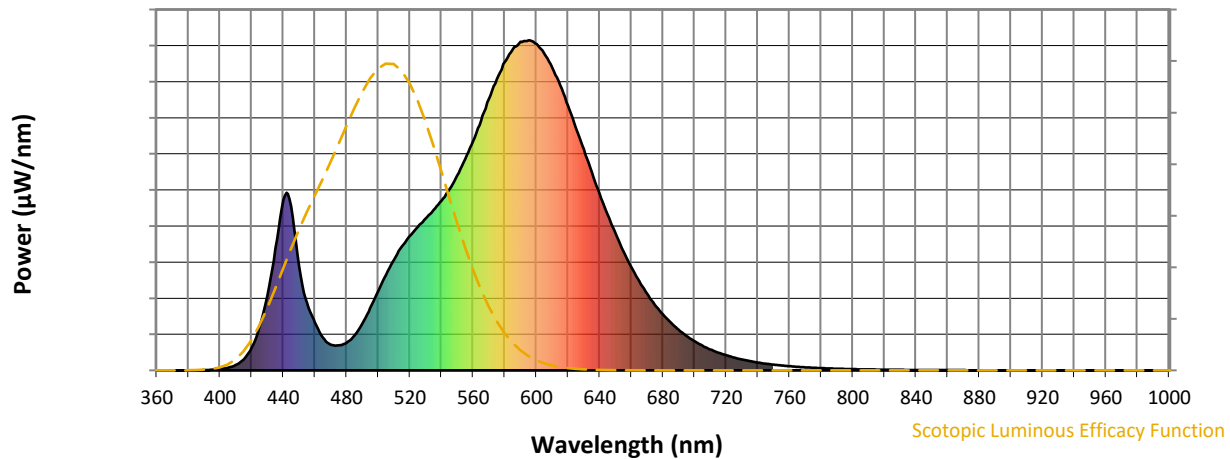


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



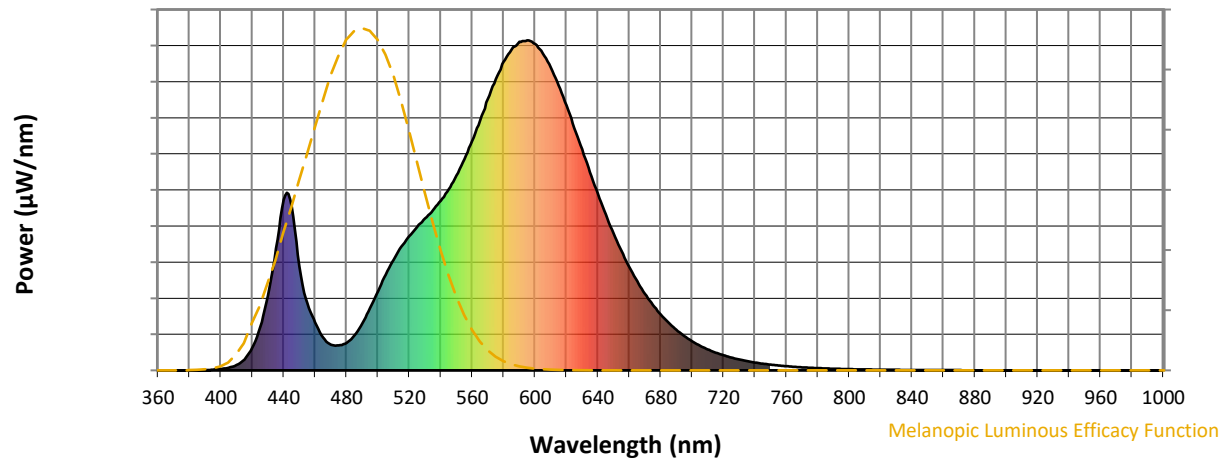
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.13

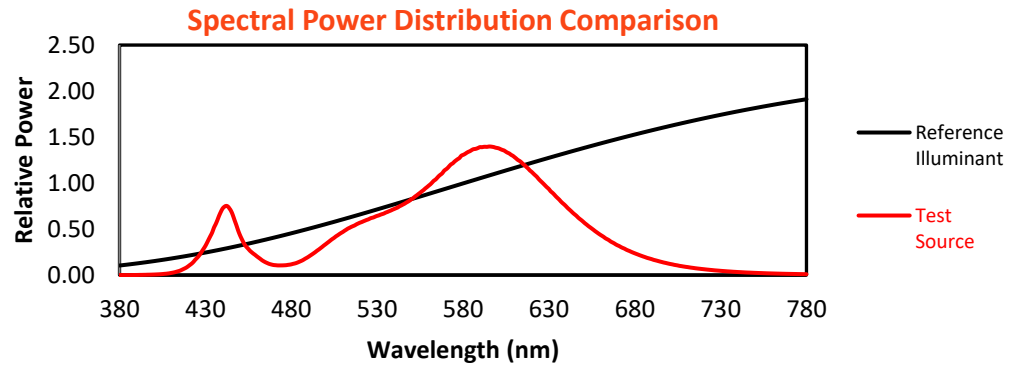
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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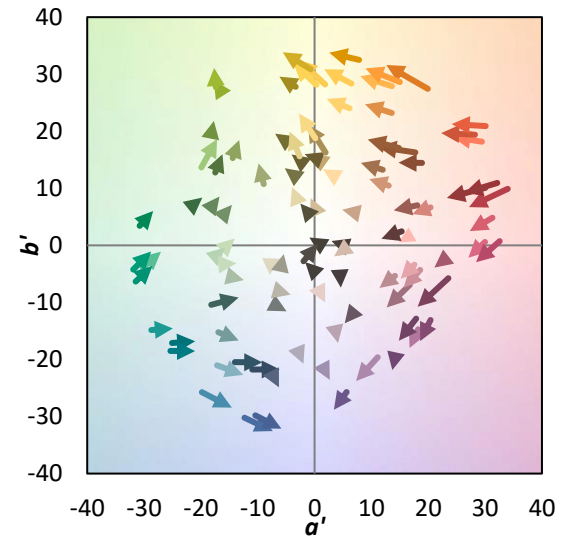
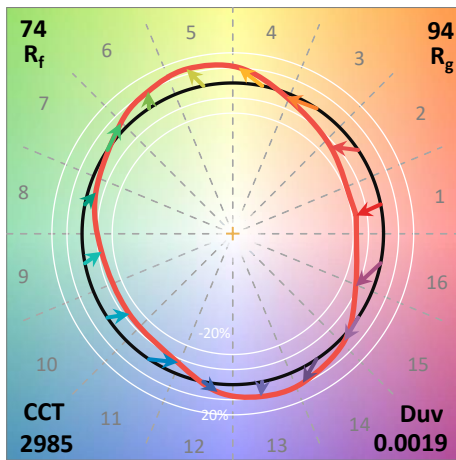
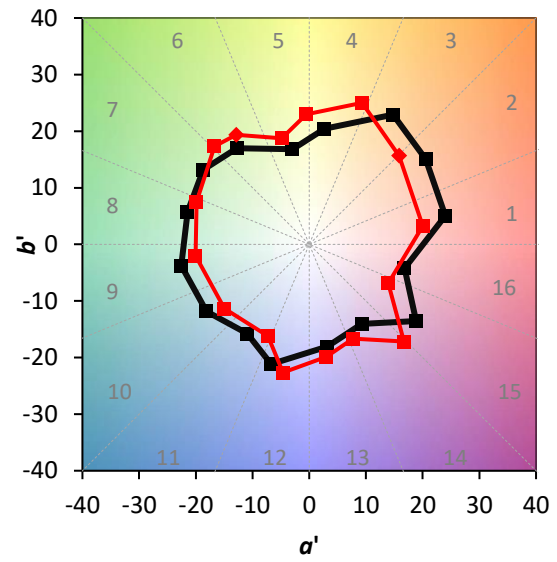
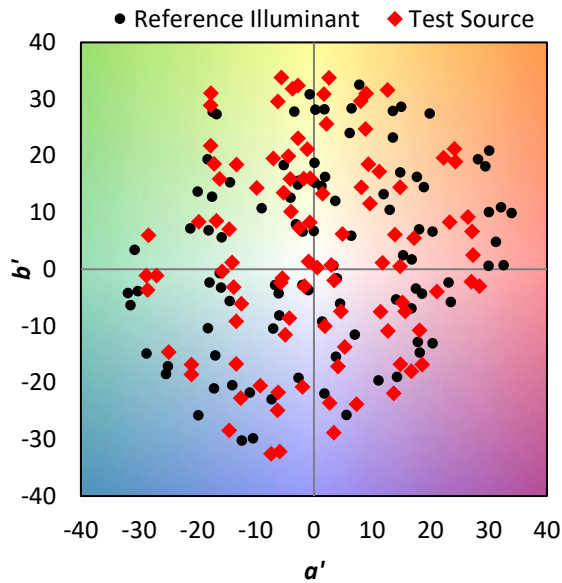
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE R_a = 70.8$
 $R_g = -43.2$

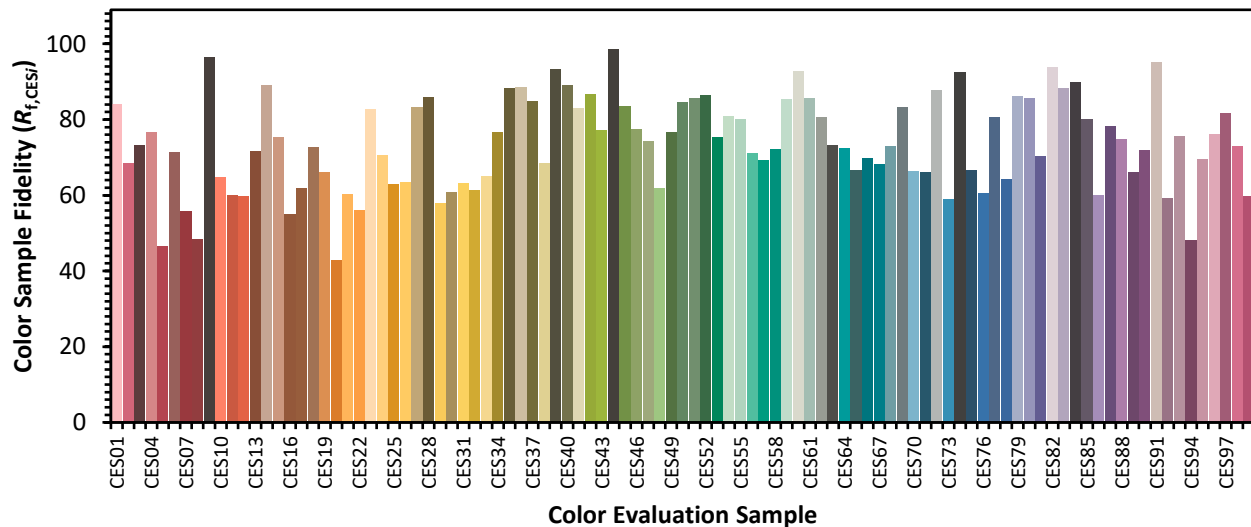


Color Vector Graphics

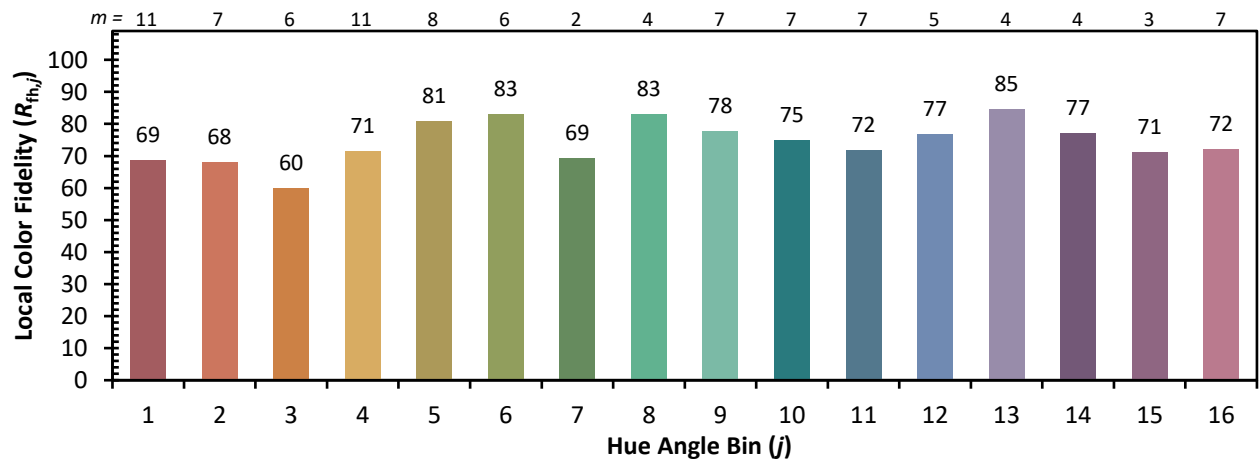
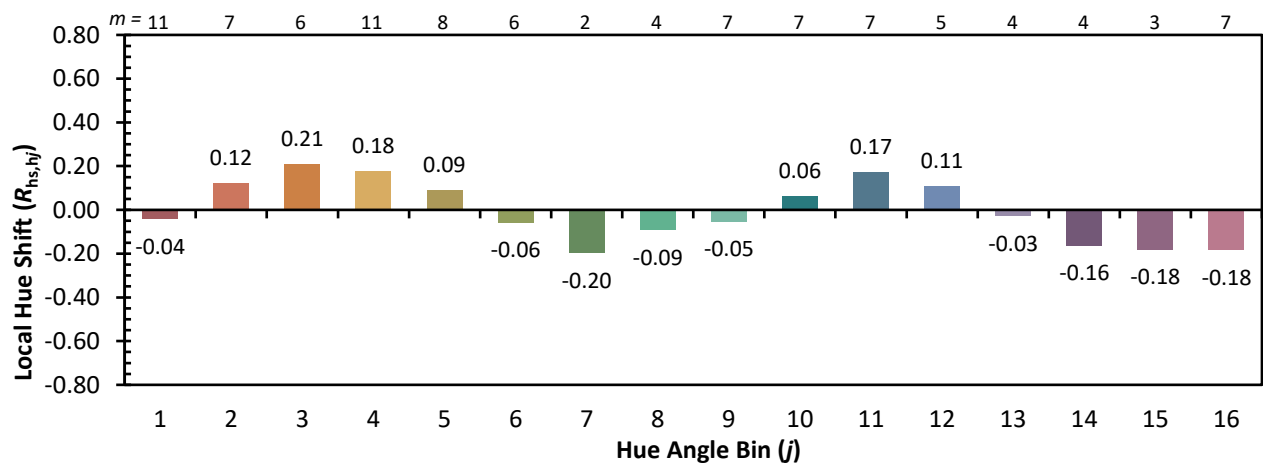
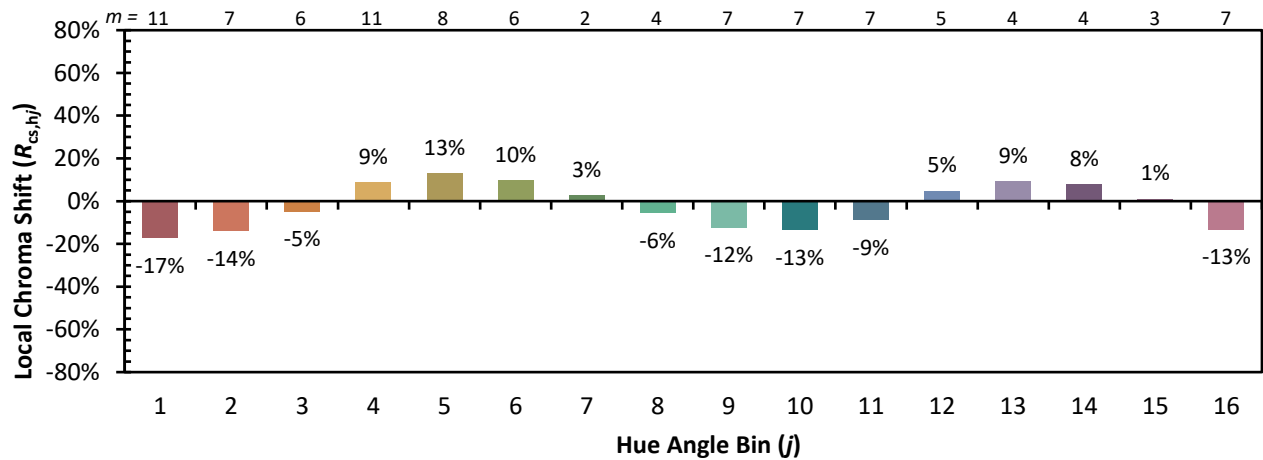


Individual Sample Fidelity Index ($R_{f,i}$)

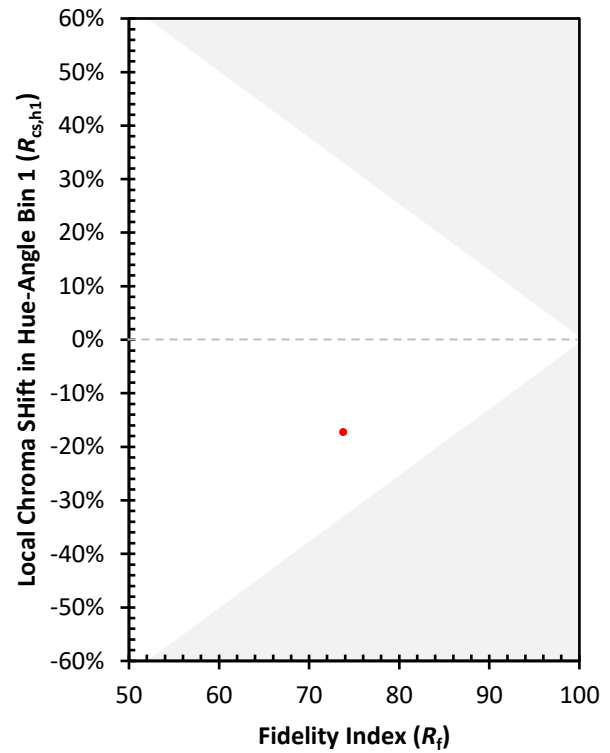
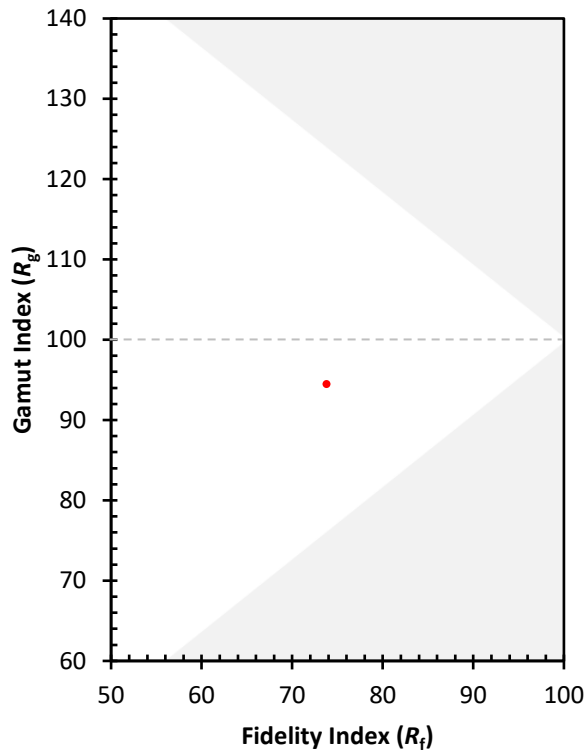
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)