

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: P1049670

Luminaire Tested: **GALN-SA8B-750-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049670
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 8xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32742.8 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 282.8
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

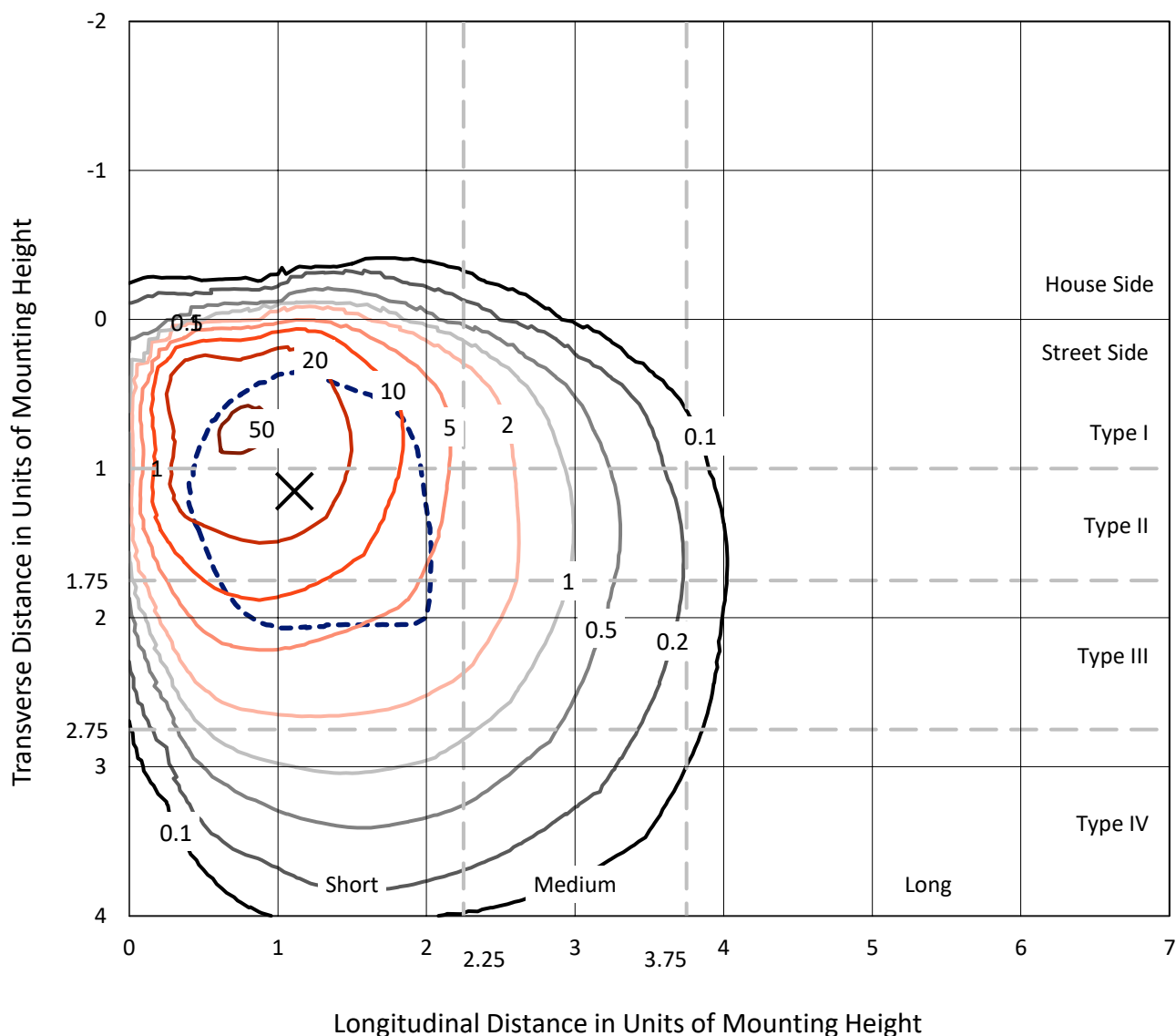
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CATALOG NUMBER: GALN-SA8B-750-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

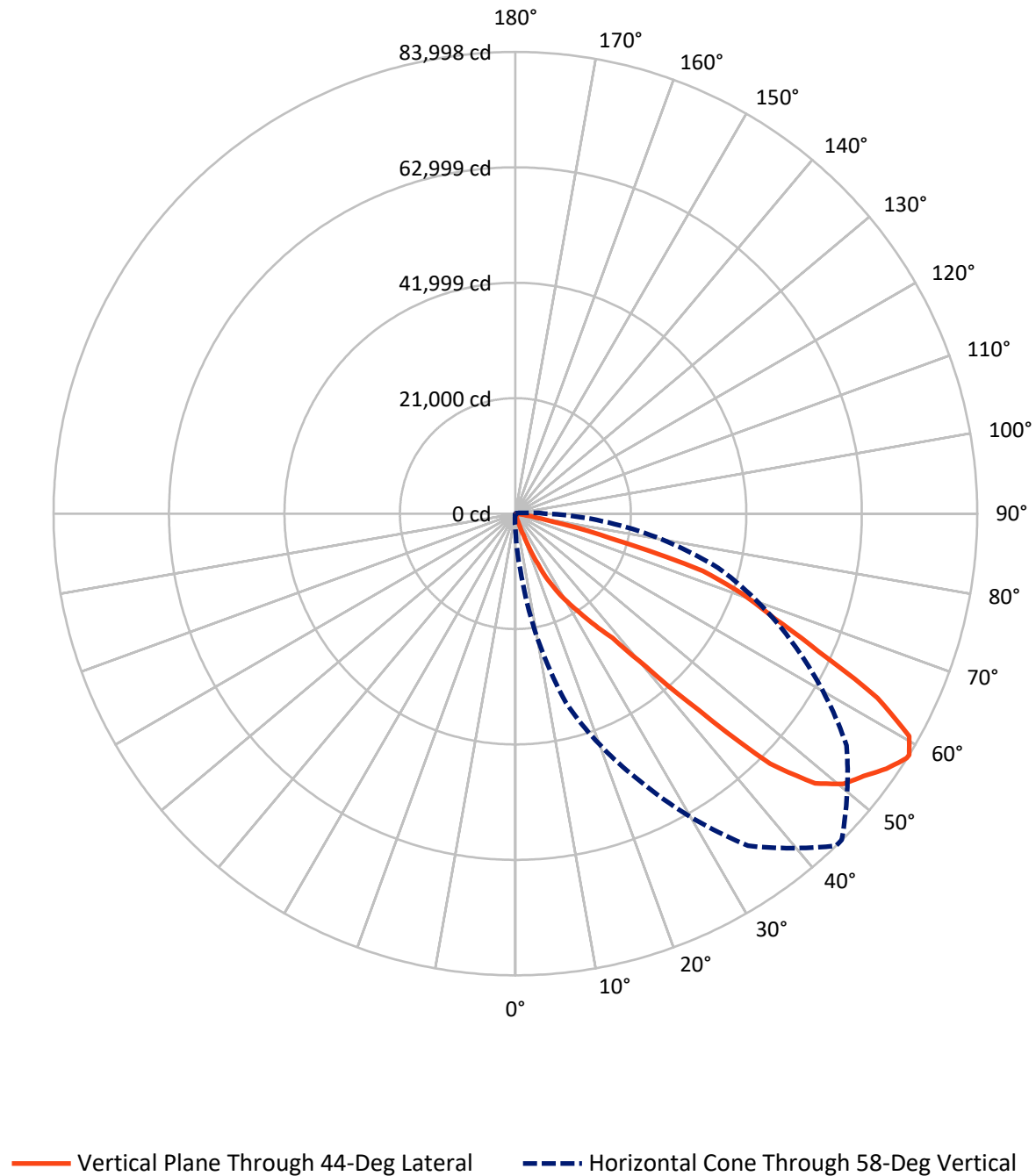
--- 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 57 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	223.6	0.0	223.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	32519.2	0.0	32519.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	32742.8	0.0	32742.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	0.0
10°-20°	71.8	0.2
20°-30°	775.7	2.4
30°-40°	2294.0	7.0
40°-50°	6837.2	20.9
50°-60°	10849.0	33.1
60°-70°	9049.4	27.6
70°-80°	2791.0	8.5
80°-90°	62.0	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°	32742.8	100.0
0°-180°	32742.8	100.0



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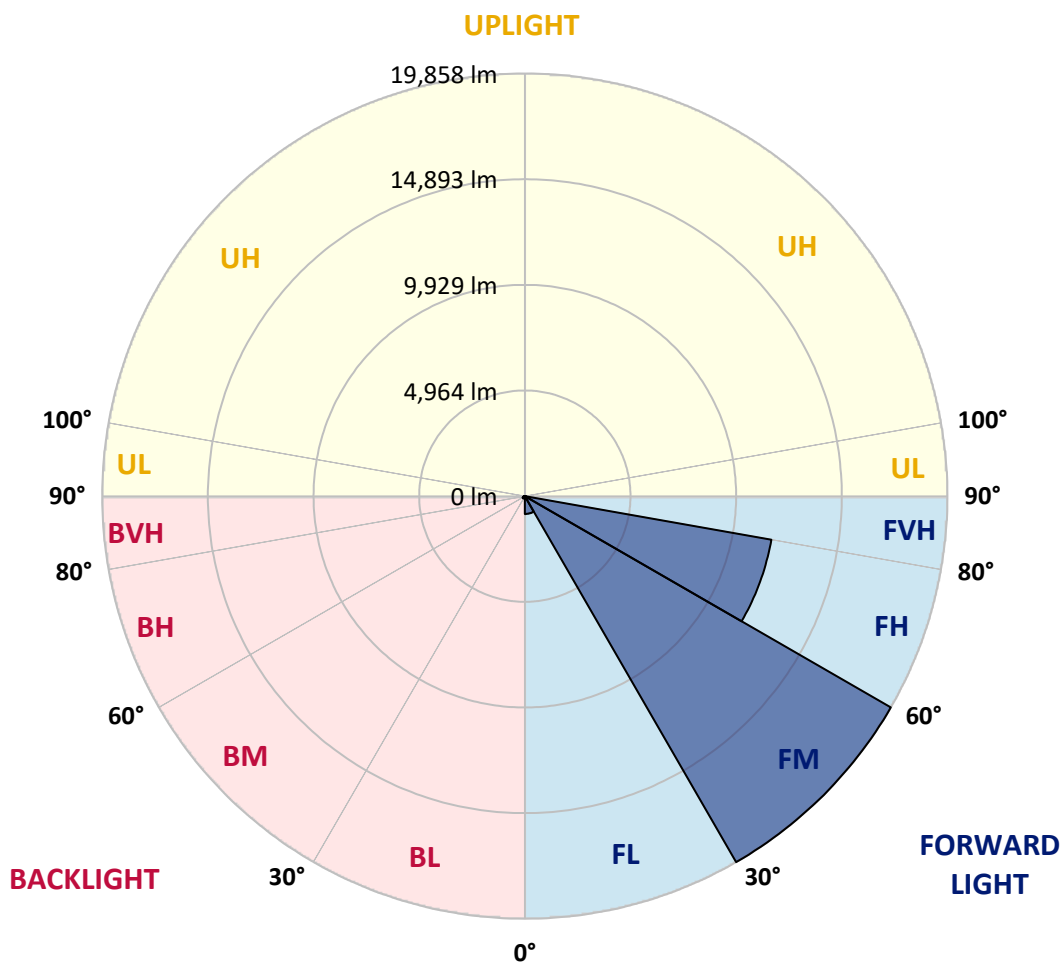
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	838.4	2.6			
FM	(30°-60°)	19857.8	60.6			
FH	(60°-80°)	11764.0	35.9			G4/12000
FVH	(80°-90°)	59.0	0.2			G1/100
BL	(0°-30°)	21.9	0.1	B0/110		
BM	(30°-60°)	122.4	0.4	B0/220		
BH	(60°-80°)	76.3	0.2	B0/110		G0/110
BVH	(80°-90°)	3.0	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	143.5	143.5	143.5	143.5	143.5	143.5	143.5	143.5	143.5	143.5
2.5°	185.5	185.5	178.1	168.2	158.3	148.4	145.9	141.0	138.5	136.0
5°	192.9	192.9	190.5	183.0	173.1	165.7	165.7	158.3	153.4	148.4
7.5°	197.9	200.3	205.3	202.8	197.9	190.5	190.5	185.5	178.1	165.7
10°	205.3	212.7	222.6	227.6	230.0	230.0	227.6	225.1	212.7	195.4
12.5°	212.7	227.6	252.3	277.0	291.9	311.7	309.2	304.2	272.1	235.0
15°	227.6	249.8	301.8	373.5	484.8	554.1	581.3	556.5	450.2	316.6
17.5°	244.9	282.0	437.8	781.6	1281.2	1518.7	1662.2	1545.9	1024.0	601.0
20°	262.2	343.8	813.8	2025.7	3324.3	4101.0	4316.1	3979.8	2555.1	1145.2
22.5°	291.9	482.3	1649.8	4187.5	7163.1	8328.1	8548.2	7472.3	4825.7	2260.7
25°	353.7	700.0	2844.5	6824.2	10690.2	12656.6	12565.1	11155.2	7828.4	3611.2
27.5°	442.7	1019.1	4301.3	9695.9	14068.9	15802.8	16010.6	14266.8	10435.4	5310.5
30°	571.4	1412.3	5864.5	11996.2	16777.3	18652.2	18686.8	16883.7	12767.9	6802.0
32.5°	695.0	1783.3	7232.3	14219.8	19446.2	21501.6	21655.0	19436.3	14509.2	8355.3
35°	789.0	2025.7	8617.5	16173.8	22137.3	24969.4	24959.5	22325.3	16572.0	9742.9
37.5°	796.4	2268.1	9871.5	18172.3	25545.7	28716.6	29030.7	26126.9	19065.3	11459.4
40°	779.1	2540.2	11459.4	21288.9	31687.2	36552.5	36829.5	33168.8	24066.6	14397.9
42.5°	798.9	3012.6	14036.8	27044.6	41885.2	48872.7	49406.9	45558.3	33260.3	20393.5
45°	902.8	3900.6	19436.3	36673.7	56421.6	64940.1	64762.0	59219.1	43957.9	29520.5
47.5°	1246.6	6074.8	27440.3	46045.5	65711.8	73297.9	73451.2	66676.5	50200.9	36537.6
50°	1916.9	9295.2	34165.6	50999.8	69706.4	77317.2	77173.7	69345.3	52572.9	39993.0
52.5°	2493.2	11625.2	37539.4	52738.6	70218.4	79303.4	79293.5	70047.8	52941.5	40289.8
55°	2636.7	11800.8	37566.6	52832.6	71366.1	81903.0	82229.5	71776.7	53418.8	38993.8
57.5°	2579.8	10447.8	35998.4	53376.8	73409.2	83913.9	83931.2	73451.2	54630.8	38199.8
58°	2530.3	10235.1	35681.8	53686.0	73760.4	83998.0	83955.9	73527.9	55617.7	38170.1
60°	2253.3	8887.1	34447.6	54475.0	73238.5	82271.5	81878.2	71853.4	55471.8	37865.9
62.5°	1771.0	6933.0	33233.1	53562.3	67643.6	73913.8	74077.0	63614.4	50569.4	36092.4
65°	1409.9	5167.0	30700.3	46983.0	55701.8	60698.2	61306.6	51729.5	42209.2	30561.8
67.5°	1122.9	3734.9	25753.4	37405.8	44076.7	50658.5	51101.2	43431.1	32701.3	23416.0
70°	912.7	2525.4	17776.6	27356.2	36354.6	43755.1	43782.3	36080.0	24407.9	15342.7
72.5°	808.8	1748.7	10319.2	19950.8	29478.4	35654.6	34934.8	29278.1	18758.6	9087.4
75°	700.0	1160.0	5060.7	12196.5	17873.1	17994.3	18268.8	13581.6	9376.8	4321.1
77.5°	576.3	823.7	1993.6	3331.7	5359.9	6861.3	7116.1	5392.1	3119.0	1063.6
80°	395.8	390.8	536.7	1021.5	1533.5	1921.9	1793.2	1387.6	816.2	408.1
82.5°	170.7	185.5	242.4	291.9	237.5	230.0	220.1	141.0	108.8	84.1
85°	54.4	49.5	51.9	51.9	42.0	32.2	32.2	14.8	0.0	0.0
87.5°	27.2	22.3	22.3	19.8	12.4	4.9	2.5	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°
143.5	0°	143.5	143.5	143.5	143.5	143.5	143.5	143.5	143.5	143.5	143.5
133.6	2.5°	131.1	131.1	126.1	121.2	118.7	113.8	111.3	108.8	106.4	103.9
143.5	5°	138.5	136.0	128.6	121.2	113.8	106.4	101.4	96.5	91.5	89.0
158.3	7.5°	150.9	145.9	131.1	118.7	108.8	98.9	94.0	86.6	81.6	74.2
175.6	10°	165.7	155.8	136.0	121.2	106.4	94.0	86.6	79.2	71.7	61.8
200.3	12.5°	185.5	168.2	143.5	118.7	101.4	86.6	79.2	69.3	61.8	54.4
232.5	15°	202.8	180.6	145.9	118.7	96.5	79.2	69.3	59.4	51.9	42.0
291.9	17.5°	227.6	190.5	143.5	111.3	89.0	69.3	59.4	51.9	39.6	24.7
432.9	20°	269.6	197.9	138.5	103.9	76.7	56.9	44.5	34.6	17.3	4.9
650.5	22.5°	336.4	217.7	133.6	94.0	66.8	44.5	29.7	12.4	0.0	0.0
989.4	25°	465.0	252.3	133.6	89.0	59.4	32.2	9.9	0.0	0.0	0.0
1404.9	27.5°	618.4	299.3	133.6	76.7	47.0	17.3	0.0	0.0	0.0	0.0
1914.4	30°	774.2	351.2	133.6	66.8	37.1	2.5	0.0	0.0	0.0	0.0
2357.2	32.5°	922.6	395.8	136.0	56.9	24.7	0.0	0.0	0.0	0.0	0.0
2970.6	35°	1073.5	403.2	133.6	49.5	14.8	0.0	0.0	0.0	0.0	0.0
3722.5	37.5°	1266.4	388.3	126.1	44.5	7.4	0.0	0.0	0.0	0.0	0.0
4897.4	40°	1558.3	395.8	118.7	42.0	2.5	0.0	0.0	0.0	0.0	0.0
6992.4	42.5°	2097.5	427.9	108.8	42.0	0.0	0.0	0.0	0.0	0.0	0.0
11137.9	45°	3626.1	573.8	98.9	44.5	0.0	0.0	0.0	0.0	0.0	0.0
16720.4	47.5°	5998.1	1031.4	96.5	44.5	0.0	0.0	0.0	0.0	0.0	0.0
20141.2	50°	7655.3	1298.6	101.4	47.0	0.0	0.0	0.0	0.0	0.0	0.0
20569.1	52.5°	7642.9	1447.0	106.4	49.5	9.9	0.0	0.0	0.0	0.0	0.0
18958.9	55°	6794.5	1474.2	113.8	54.4	32.2	0.0	0.0	0.0	0.0	0.0
16292.5	57.5°	5679.0	1345.6	131.1	66.8	59.4	0.0	0.0	0.0	0.0	0.0
15874.5	58°	5481.1	1286.2	136.0	69.3	64.3	0.0	0.0	0.0	0.0	0.0
13769.6	60°	4491.8	1048.7	173.1	86.6	86.6	0.0	0.0	0.0	0.0	0.0
11288.8	62.5°	3101.7	915.2	197.9	111.3	89.0	0.0	0.0	0.0	0.0	0.0
8323.1	65°	2193.9	826.1	215.2	118.7	71.7	0.0	0.0	0.0	0.0	0.0
5914.0	67.5°	1639.9	761.8	237.5	121.2	37.1	0.0	0.0	0.0	0.0	0.0
3710.2	70°	1256.5	714.8	291.9	128.6	9.9	0.0	0.0	0.0	0.0	0.0
2211.3	72.5°	1024.0	660.4	353.7	133.6	0.0	0.0	0.0	0.0	0.0	0.0
1325.8	75°	848.4	596.1	341.3	145.9	0.0	0.0	0.0	0.0	0.0	0.0
707.4	77.5°	563.9	462.5	311.7	145.9	0.0	0.0	0.0	0.0	0.0	0.0
252.3	80°	197.9	183.0	242.4	128.6	0.0	0.0	0.0	0.0	0.0	0.0
51.9	82.5°	29.7	24.7	34.6	44.5	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°
143.5	0°	143.5	143.5	143.5	143.5	143.5	143.5	143.5	143.5	143.5	143.5
101.4	2.5°	101.4	101.4	98.9	101.4	101.4	106.4	118.7	136.0	155.8	163.2
86.6	5°	84.1	81.6	79.2	79.2	79.2	86.6	96.5	116.3	138.5	148.4
71.7	7.5°	69.3	66.8	64.3	61.8	61.8	66.8	79.2	101.4	123.7	133.6
59.4	10°	56.9	51.9	49.5	47.0	47.0	51.9	64.3	86.6	111.3	121.2
49.5	12.5°	47.0	39.6	34.6	32.2	29.7	37.1	49.5	69.3	96.5	108.8
37.1	15°	32.2	24.7	17.3	14.8	12.4	19.8	32.2	54.4	81.6	96.5
19.8	17.5°	17.3	7.4	2.5	0.0	0.0	4.9	14.8	39.6	66.8	79.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	49.5	61.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	29.7	42.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	22.3
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
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	7.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.8
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°
143.5	0°	143.5	143.5	143.5	143.5	143.5	143.5	143.5	143.5	143.5	143.5
170.7	2.5°	175.6	173.1	168.2	163.2	163.2	163.2	170.7	178.1	185.5	185.5
153.4	5°	163.2	163.2	160.8	155.8	155.8	158.3	168.2	180.6	190.5	192.9
141.0	7.5°	150.9	155.8	150.9	148.4	150.9	153.4	163.2	178.1	192.9	197.9
131.1	10°	143.5	145.9	145.9	143.5	143.5	148.4	158.3	178.1	197.9	205.3
118.7	12.5°	133.6	138.5	136.0	136.0	136.0	141.0	153.4	175.6	202.8	212.7
106.4	15°	123.7	131.1	131.1	128.6	128.6	131.1	148.4	173.1	210.2	227.6
91.5	17.5°	113.8	121.2	123.7	118.7	118.7	123.7	141.0	173.1	215.2	244.9
74.2	20°	94.0	106.4	113.8	106.4	106.4	111.3	128.6	163.2	217.7	262.2
54.4	22.5°	74.2	86.6	96.5	94.0	94.0	96.5	118.7	155.8	220.1	291.9
32.2	25°	54.4	66.8	74.2	79.2	79.2	86.6	108.8	150.9	230.0	353.7
14.8	27.5°	32.2	47.0	56.9	61.8	64.3	74.2	101.4	145.9	247.3	442.7
0.0	30°	14.8	27.2	39.6	49.5	49.5	66.8	94.0	141.0	269.6	571.4
0.0	32.5°	0.0	12.4	19.8	34.6	37.1	54.4	86.6	136.0	301.8	695.0
0.0	35°	0.0	0.0	9.9	27.2	27.2	44.5	79.2	131.1	351.2	789.0
0.0	37.5°	0.0	0.0	0.0	19.8	22.3	39.6	76.7	128.6	361.1	796.4
0.0	40°	0.0	0.0	0.0	14.8	17.3	37.1	76.7	131.1	326.5	779.1
0.0	42.5°	0.0	0.0	0.0	9.9	12.4	37.1	76.7	136.0	294.3	798.9
0.0	45°	0.0	0.0	0.0	7.4	9.9	39.6	74.2	133.6	277.0	902.8
0.0	47.5°	0.0	0.0	0.0	9.9	14.8	39.6	71.7	131.1	279.5	1246.6
0.0	50°	0.0	0.0	0.0	12.4	17.3	39.6	74.2	126.1	306.7	1916.9
0.0	52.5°	0.0	0.0	0.0	9.9	14.8	44.5	81.6	123.7	333.9	2493.2
0.0	55°	0.0	0.0	0.0	2.5	7.4	56.9	89.0	123.7	376.0	2636.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	64.3	101.4	131.1	445.2	2579.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	64.3	103.9	131.1	450.2	2530.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	64.3	113.8	145.9	484.8	2253.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	54.4	136.0	183.0	504.6	1771.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	44.5	160.8	200.3	519.4	1409.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	42.0	165.7	202.8	526.8	1122.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	44.5	163.2	217.7	551.6	912.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	49.5	148.4	239.9	551.6	808.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	51.9	138.5	269.6	502.1	700.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	49.5	136.0	314.1	447.7	576.3
0.0	80°	4.9	7.4	7.4	4.9	4.9	42.0	133.6	319.1	380.9	395.8
2.5	82.5°	14.8	19.8	17.3	12.4	12.4	37.1	118.7	267.1	197.9	170.7
14.8	85°	27.2	32.2	32.2	27.2	27.2	34.6	74.2	96.5	66.8	54.4
27.2	87.5°	37.1	42.0	42.0	37.1	37.1	34.6	32.2	29.7	27.2	27.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

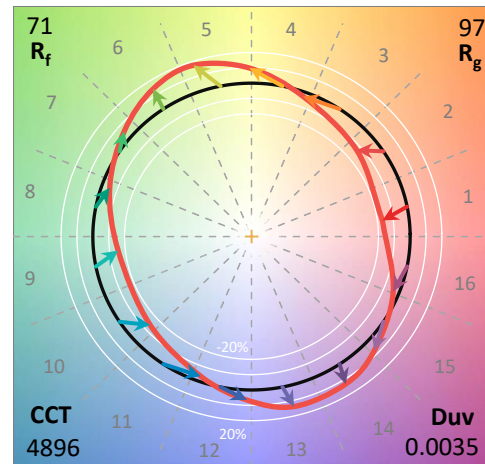
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 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-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896	CRI (Ra):	70.2		
CIE u':	0.2101	R1:	68.1	R9:	-35.1
CIE v':	0.4901	R2:	73.9	R10:	39.3
Duv:	0.0035	R3:	79.4	R11:	71.1
CIE x:	0.3489	R4:	72.1	R12:	43.8
CIE y:	0.3618	R5:	69.2	R13:	68.1
CIE z:	0.2893	R6:	65.7	R14:	88.4
Peak Wavelength (nm):	443	R7:	78.1	R15:	59.7
Dominant Wavelength (nm):	570	R8:	55.3		
Purity:	13.25435				
Rf:	70.7				
Rg:	96.8				



Test Conditions

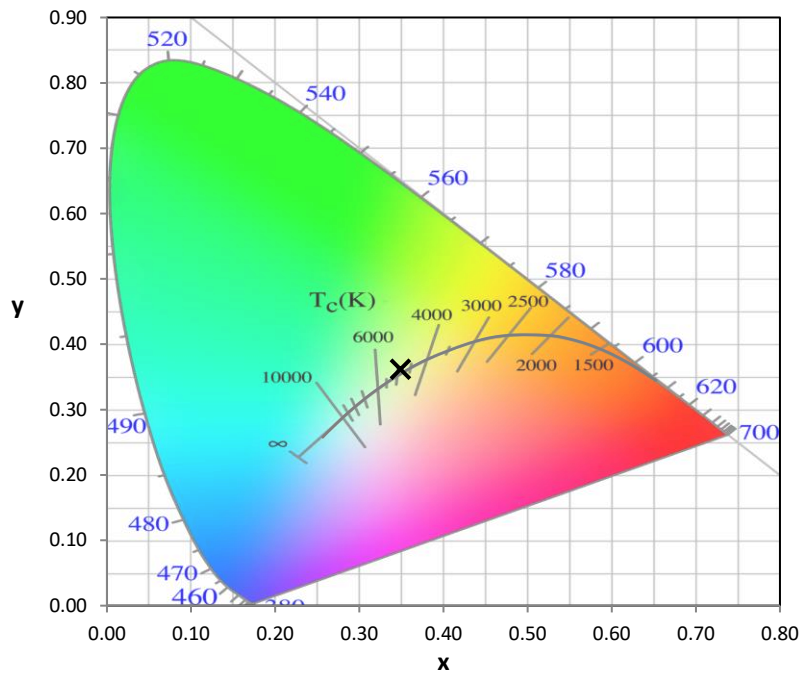
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

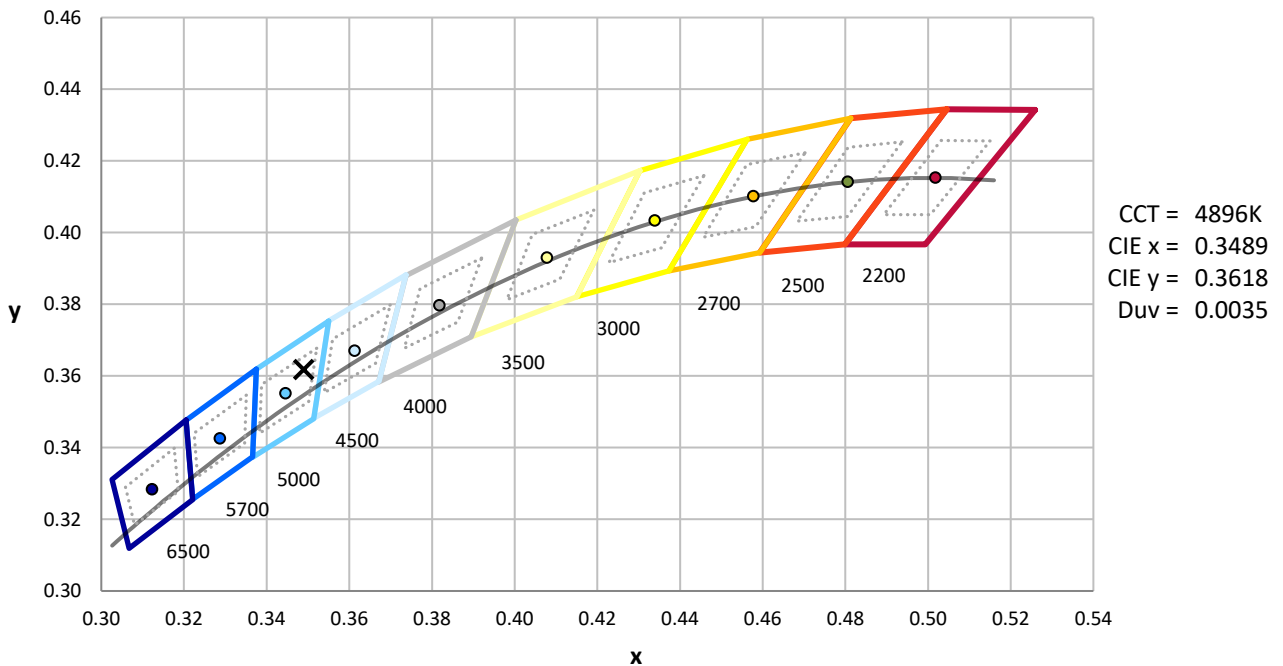
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



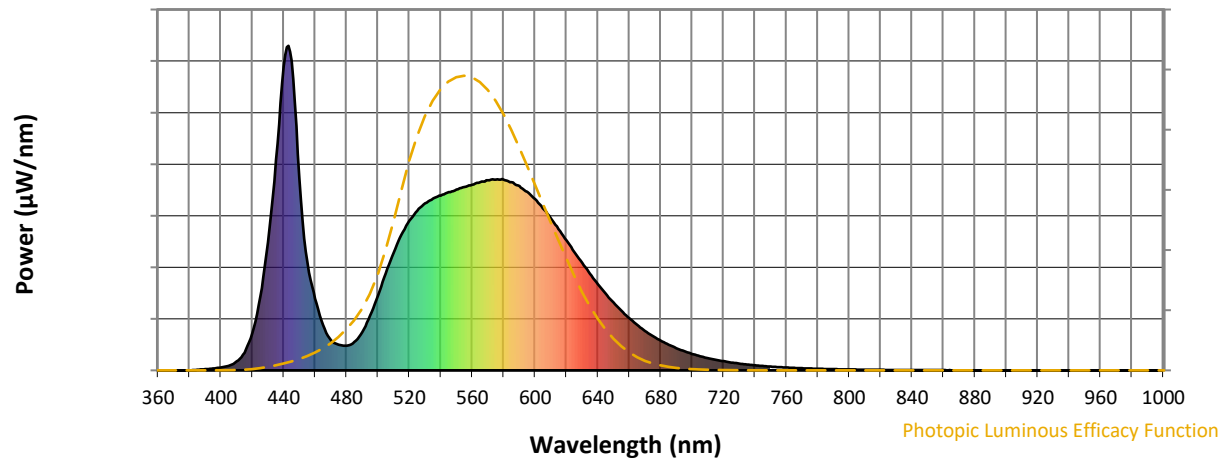
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

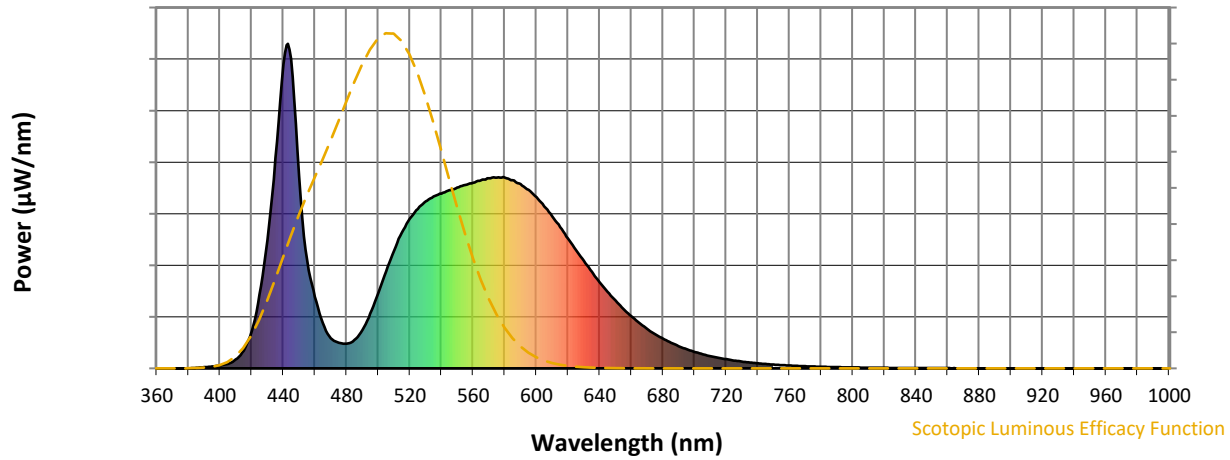


Photopic Lumens: NR

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



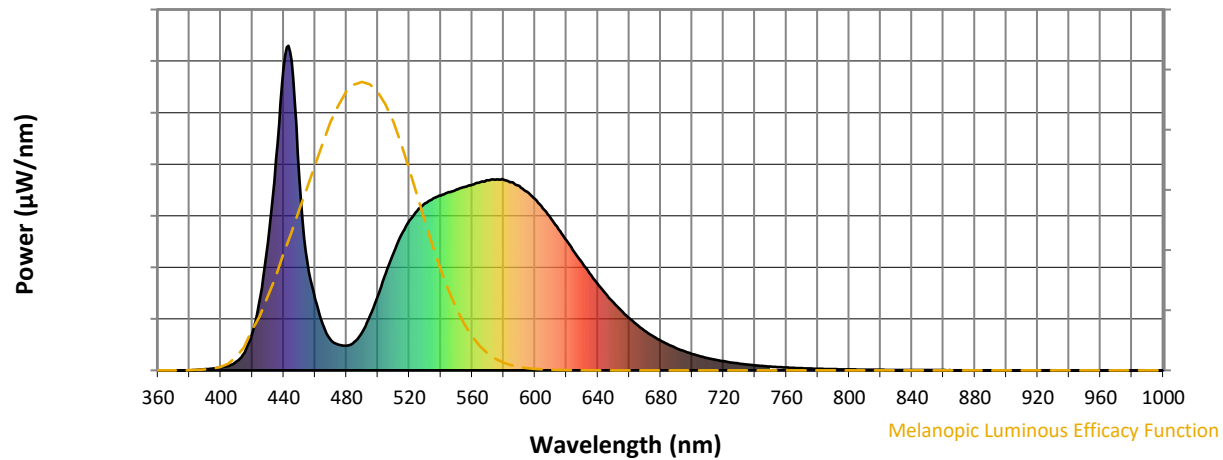
Scotopic Lumens: NR

S/P: 1.7

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.37

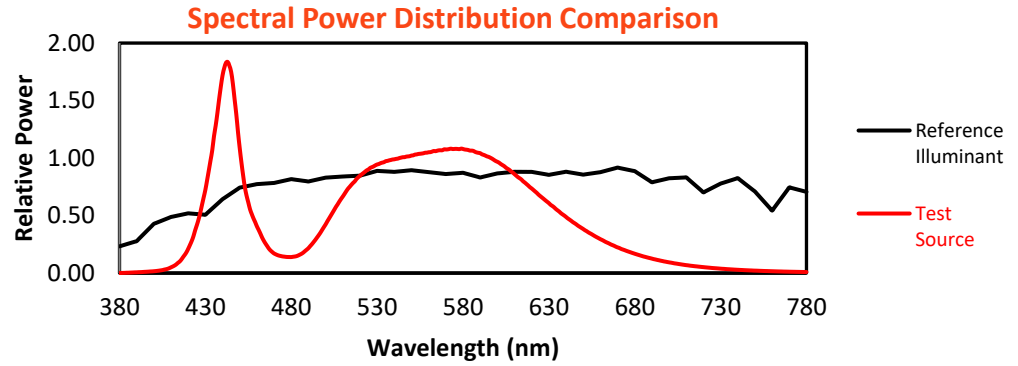
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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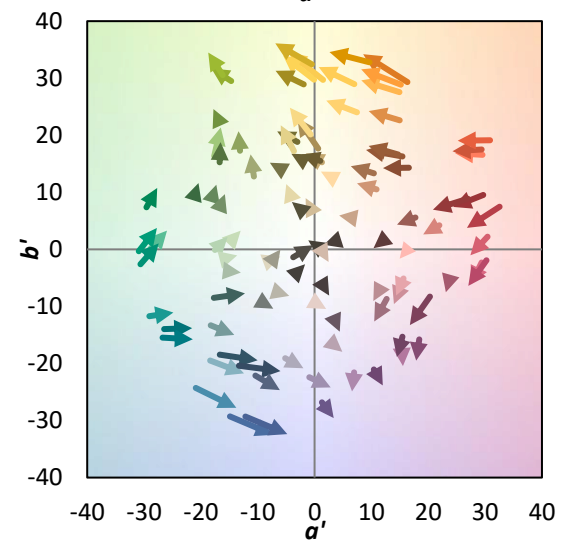
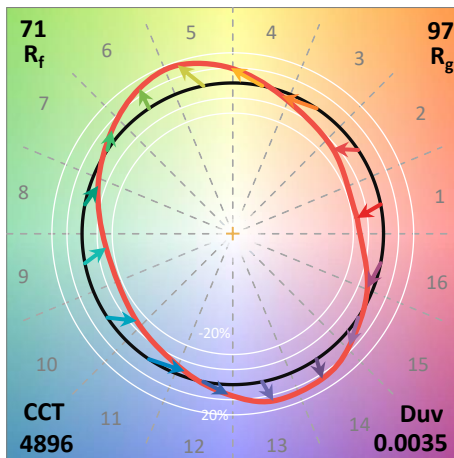
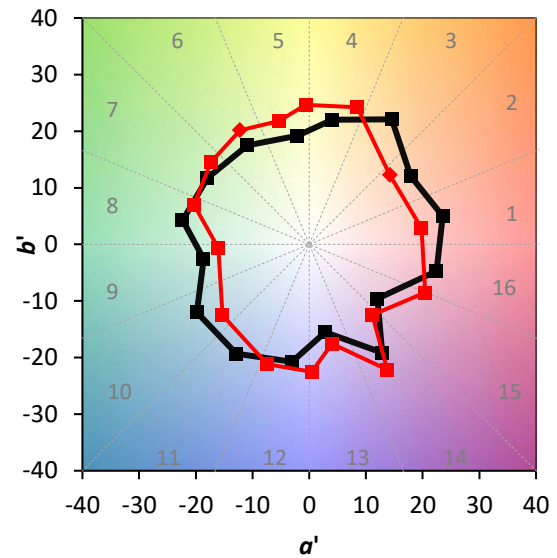
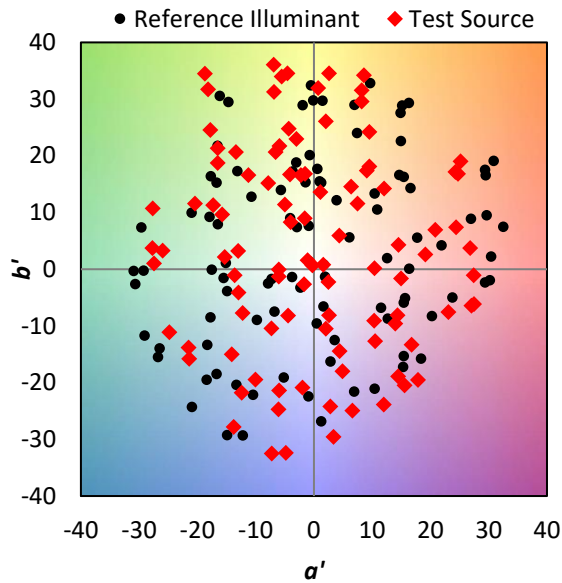
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 $CIE R_a = 70.2$
 $R_g = -35.1$

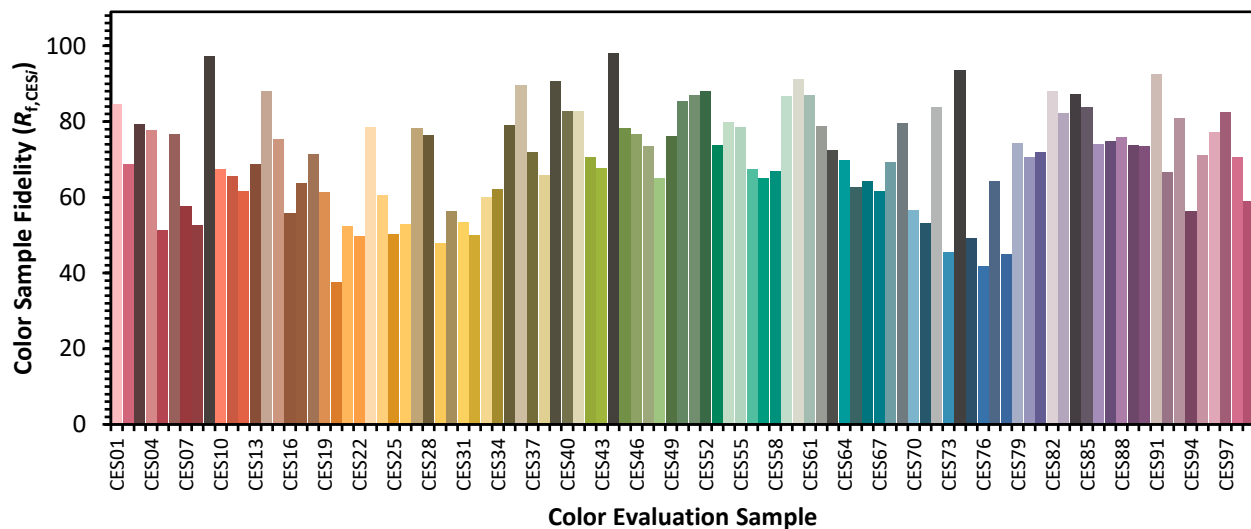


Color Vector Graphics

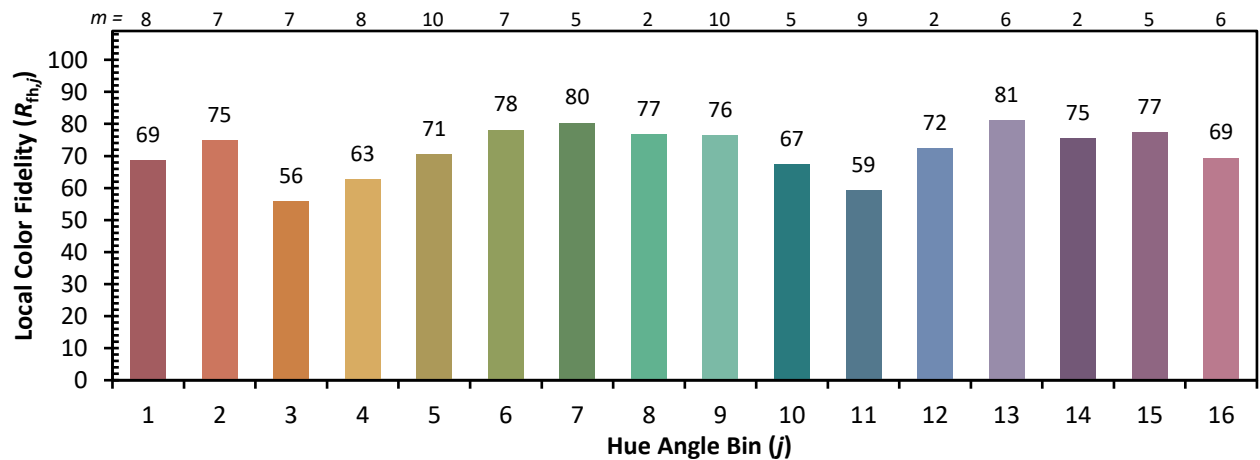
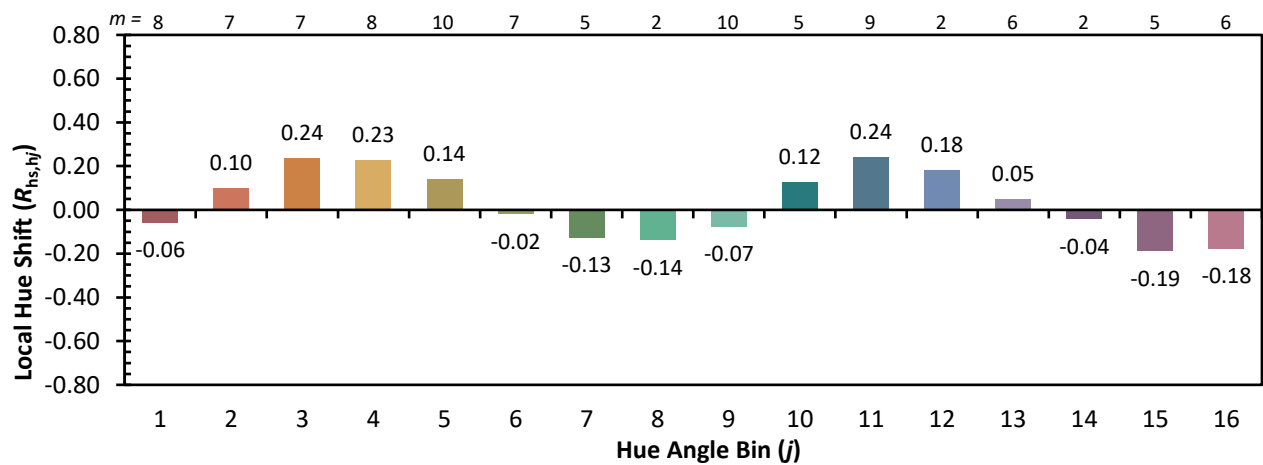
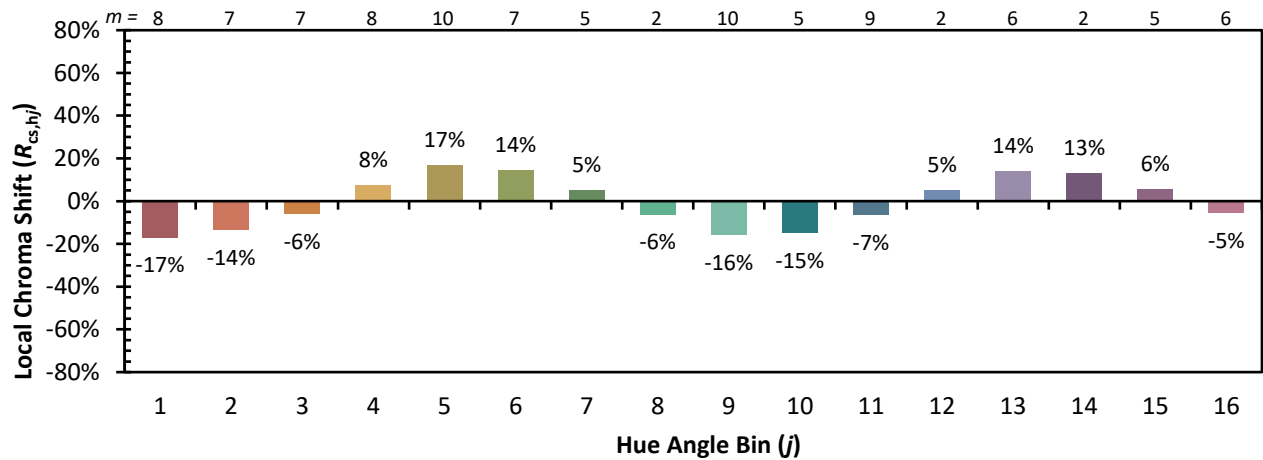


Individual Sample Fidelity Index ($R_{f,i}$)

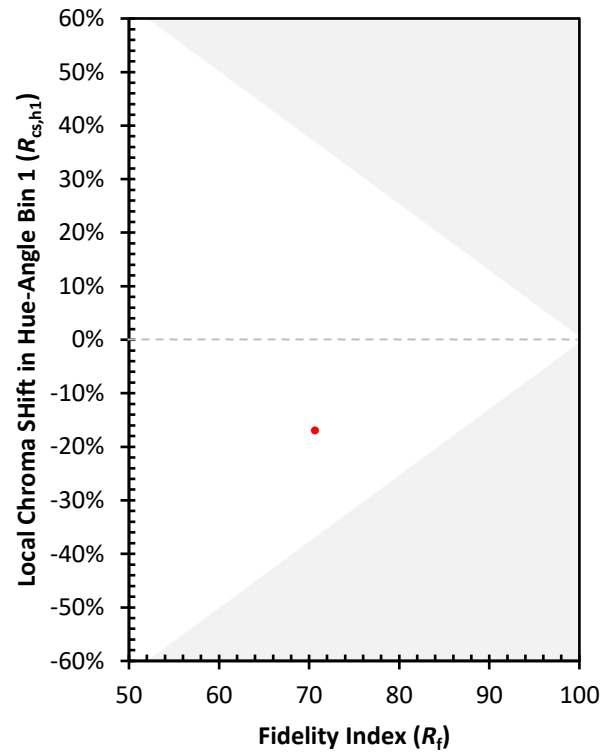
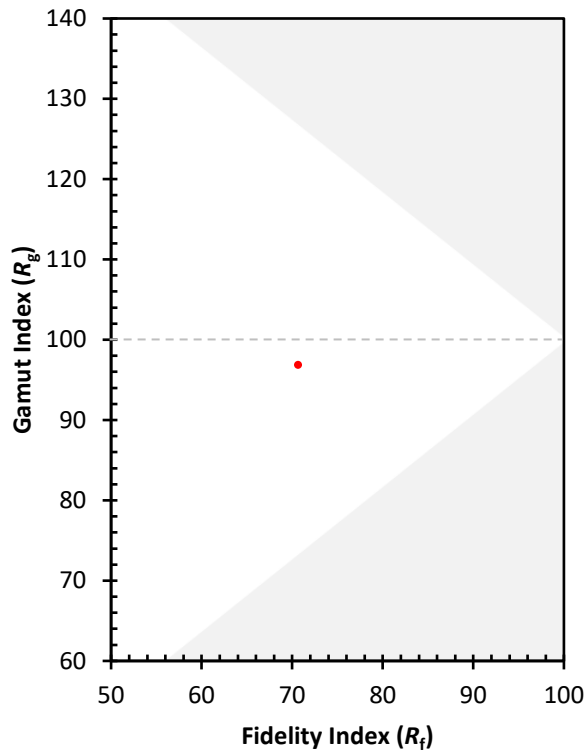
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)