

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: P1050022

Luminaire Tested: **GALN-SA6B-940-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1050022
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17803.1 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

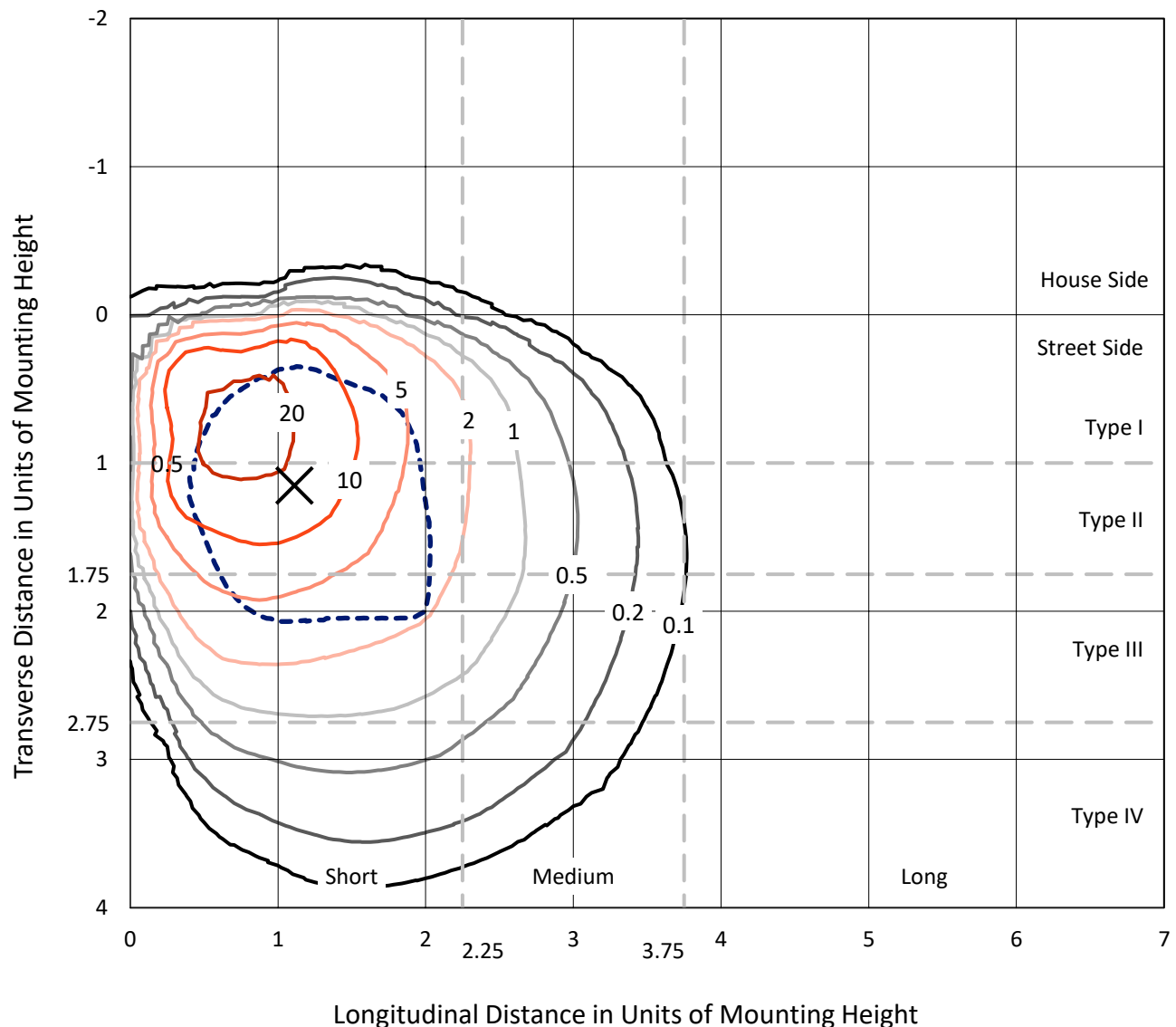
Input Watts (W): 213.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

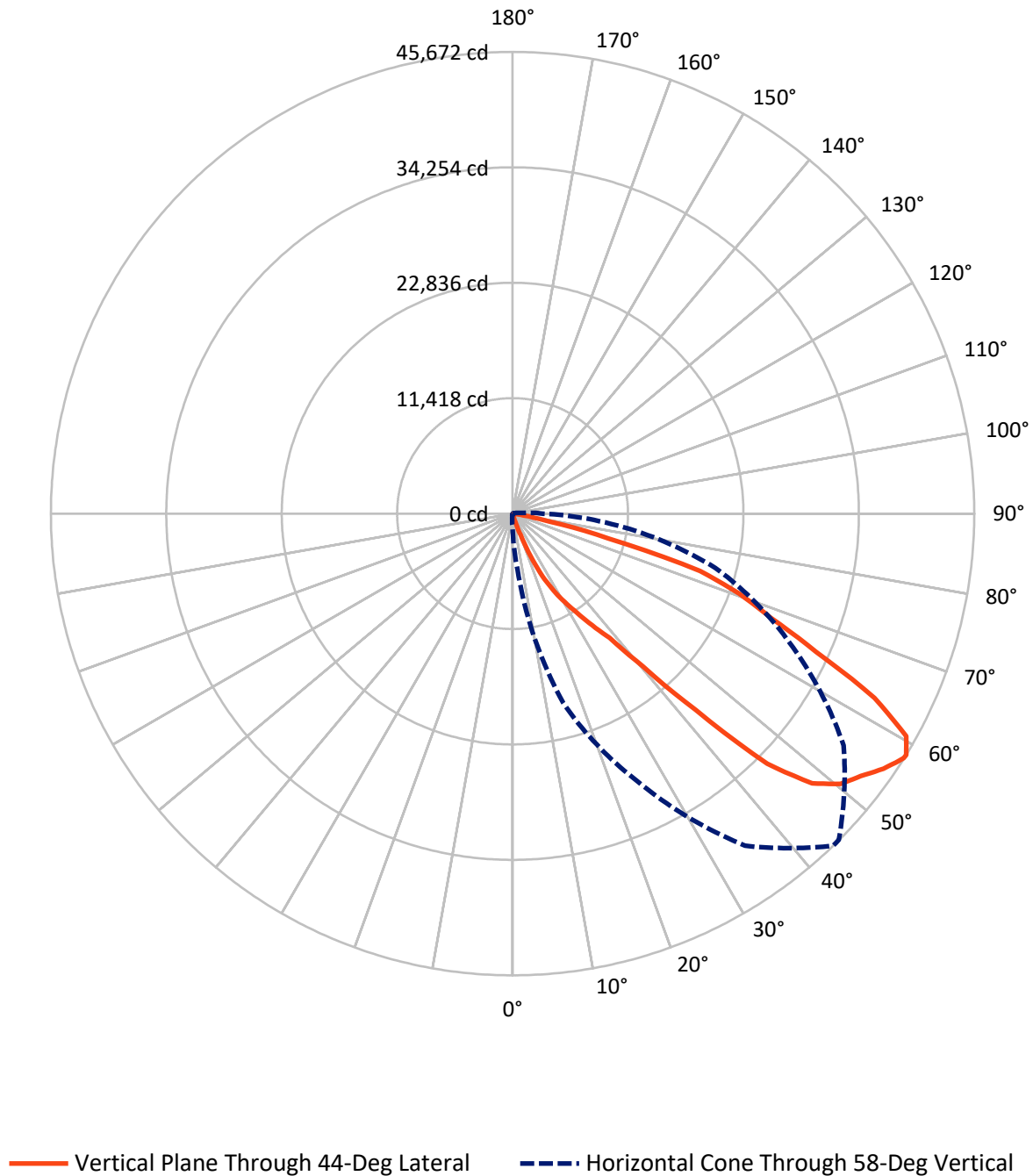
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31 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	121.6	0.0	121.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	17681.5	0.0	17681.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	17803.1	0.0	17803.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.0
10°-20°	39.0	0.2
20°-30°	421.8	2.4
30°-40°	1247.3	7.0
40°-50°	3717.6	20.9
50°-60°	5898.9	33.1
60°-70°	4920.4	27.6
70°-80°	1517.5	8.5
80°-90°	33.7	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°	17803.1	100.0
0°-180°	17803.1	100.0



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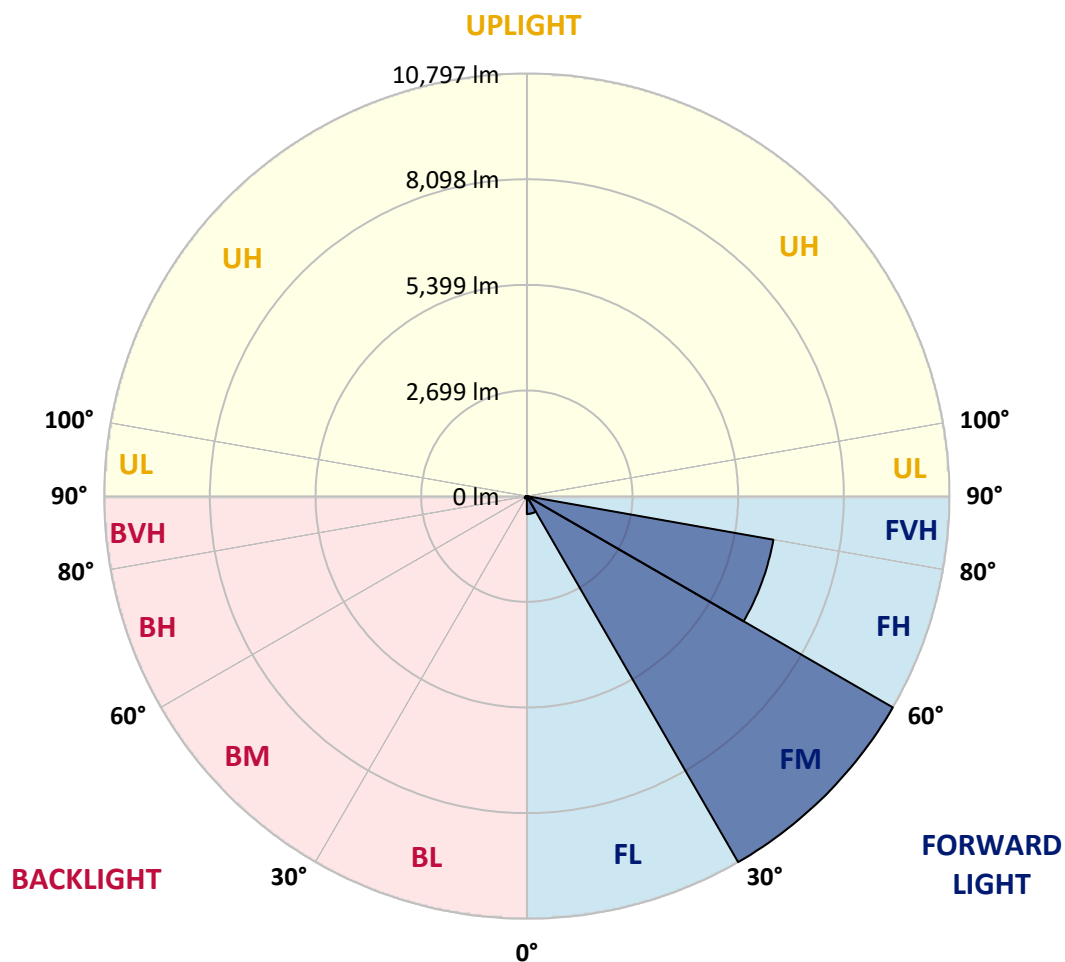
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	455.9	2.6			
FM	(30°-60°)	10797.2	60.6			
FH	(60°-80°)	6396.4	35.9			G3/7500
FVH	(80°-90°)	32.1	0.2			G1/100
BL	(0°-30°)	11.9	0.1	B0/110		
BM	(30°-60°)	66.5	0.4	B0/220		
BH	(60°-80°)	41.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.6	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
2.5°	100.9	100.9	96.8	91.5	86.1	80.7	79.3	76.7	75.3	74.0
5°	104.9	104.9	103.6	99.5	94.1	90.1	90.1	86.1	83.4	80.7
7.5°	107.6	108.9	111.6	110.3	107.6	103.6	103.6	100.9	96.8	90.1
10°	111.6	115.7	121.0	123.7	125.1	125.1	123.7	122.4	115.7	106.2
12.5°	115.7	123.7	137.2	150.6	158.7	169.5	168.1	165.4	147.9	127.8
15°	123.7	135.8	164.1	203.1	263.6	301.3	316.0	302.6	244.8	172.1
17.5°	133.1	153.3	238.0	425.0	696.6	825.8	903.8	840.5	556.8	326.8
20°	142.6	186.9	442.5	1101.5	1807.5	2229.8	2346.8	2163.9	1389.3	622.7
22.5°	158.7	262.3	897.0	2276.9	3894.8	4528.2	4647.9	4062.9	2623.8	1229.2
25°	192.3	380.6	1546.6	3710.5	5812.5	6881.7	6832.0	6065.4	4256.5	1963.5
27.5°	240.7	554.1	2338.7	5271.9	7649.6	8592.4	8705.4	7757.2	5674.0	2887.4
30°	310.7	767.9	3188.7	6522.6	9122.3	10141.7	10160.5	9180.1	6942.2	3698.4
32.5°	377.9	969.7	3932.4	7731.7	10573.4	11691.0	11774.4	10568.0	7889.0	4543.0
35°	429.0	1101.5	4685.5	8794.1	12036.6	13576.5	13571.1	12138.8	9010.6	5297.5
37.5°	433.0	1233.2	5367.4	9880.8	13889.8	15614.0	15784.8	14205.9	10366.3	6230.8
40°	423.6	1381.2	6230.8	11575.3	17229.2	19874.5	20025.2	18034.7	13085.6	7828.5
42.5°	434.4	1638.1	7632.2	14704.8	22774.1	26573.3	26863.8	24771.2	18084.5	11088.5
45°	490.9	2120.9	10568.0	19940.4	30677.9	35309.6	35212.8	32199.0	23901.1	16051.1
47.5°	677.8	3303.0	14920.0	25036.2	35729.2	39854.0	39937.4	36253.7	27295.5	19866.5
50°	1042.3	5054.0	18576.7	27729.9	37901.2	42039.4	41961.4	37704.9	28585.3	21745.3
52.5°	1355.6	6320.9	20411.1	28675.4	38179.6	43119.3	43113.9	38086.8	28785.7	21906.6
55°	1433.6	6416.4	20425.9	28726.5	38803.6	44532.8	44710.3	39026.9	29045.2	21201.9
57.5°	1402.7	5680.7	19573.3	29022.4	39914.5	45626.2	45635.6	39937.4	29704.2	20770.2
58°	1375.8	5565.1	19401.1	29190.5	40105.5	45671.9	45649.0	39979.0	30240.8	20754.1
60°	1225.2	4832.1	18730.0	29619.5	39821.7	44733.2	44519.3	39068.6	30161.5	20588.7
62.5°	962.9	3769.7	18069.7	29123.2	36779.6	40188.8	40277.6	34588.8	27495.9	19624.4
65°	766.6	2809.4	16692.6	25545.9	30286.5	33003.2	33334.0	28126.7	22950.3	16617.3
67.5°	610.6	2030.8	14002.8	20338.5	23965.6	27544.3	27785.1	23614.6	17780.6	12731.9
70°	496.3	1373.1	9665.6	14874.3	19766.9	23790.8	23805.6	19617.7	13271.2	8342.2
72.5°	439.8	950.8	5610.8	10847.7	16028.2	19386.3	18995.0	15919.3	10199.5	4941.1
75°	380.6	630.7	2751.6	6631.6	9718.1	9784.0	9933.2	7384.7	5098.4	2349.5
77.5°	313.4	447.8	1084.0	1811.5	2914.3	3730.7	3869.2	2931.8	1695.9	578.3
80°	215.2	212.5	291.8	555.4	833.8	1045.0	975.0	754.5	443.8	221.9
82.5°	92.8	100.9	131.8	158.7	129.1	125.1	119.7	76.7	59.2	45.7
85°	29.6	26.9	28.2	28.2	22.9	17.5	17.5	8.1	0.0	0.0
87.5°	14.8	12.1	12.1	10.8	6.7	2.7	1.3	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°
78.0	0°	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
72.6	2.5°	71.3	71.3	68.6	65.9	64.6	61.9	60.5	59.2	57.8	56.5
78.0	5°	75.3	74.0	69.9	65.9	61.9	57.8	55.1	52.5	49.8	48.4
86.1	7.5°	82.0	79.3	71.3	64.6	59.2	53.8	51.1	47.1	44.4	40.3
95.5	10°	90.1	84.7	74.0	65.9	57.8	51.1	47.1	43.0	39.0	33.6
108.9	12.5°	100.9	91.5	78.0	64.6	55.1	47.1	43.0	37.7	33.6	29.6
126.4	15°	110.3	98.2	79.3	64.6	52.5	43.0	37.7	32.3	28.2	22.9
158.7	17.5°	123.7	103.6	78.0	60.5	48.4	37.7	32.3	28.2	21.5	13.4
235.4	20°	146.6	107.6	75.3	56.5	41.7	30.9	24.2	18.8	9.4	2.7
353.7	22.5°	182.9	118.3	72.6	51.1	36.3	24.2	16.1	6.7	0.0	0.0
537.9	25°	252.8	137.2	72.6	48.4	32.3	17.5	5.4	0.0	0.0	0.0
763.9	27.5°	336.2	162.7	72.6	41.7	25.6	9.4	0.0	0.0	0.0	0.0
1040.9	30°	420.9	191.0	72.6	36.3	20.2	1.3	0.0	0.0	0.0	0.0
1281.7	32.5°	501.6	215.2	74.0	30.9	13.4	0.0	0.0	0.0	0.0	0.0
1615.2	35°	583.7	219.2	72.6	26.9	8.1	0.0	0.0	0.0	0.0	0.0
2024.0	37.5°	688.6	211.1	68.6	24.2	4.0	0.0	0.0	0.0	0.0	0.0
2662.8	40°	847.3	215.2	64.6	22.9	1.3	0.0	0.0	0.0	0.0	0.0
3802.0	42.5°	1140.5	232.7	59.2	22.9	0.0	0.0	0.0	0.0	0.0	0.0
6056.0	45°	1971.6	312.0	53.8	24.2	0.0	0.0	0.0	0.0	0.0	0.0
9091.3	47.5°	3261.3	560.8	52.5	24.2	0.0	0.0	0.0	0.0	0.0	0.0
10951.3	50°	4162.4	706.1	55.1	25.6	0.0	0.0	0.0	0.0	0.0	0.0
11184.0	52.5°	4155.7	786.8	57.8	26.9	5.4	0.0	0.0	0.0	0.0	0.0
10308.5	55°	3694.4	801.5	61.9	29.6	17.5	0.0	0.0	0.0	0.0	0.0
8858.7	57.5°	3087.8	731.6	71.3	36.3	32.3	0.0	0.0	0.0	0.0	0.0
8631.4	58°	2980.2	699.3	74.0	37.7	35.0	0.0	0.0	0.0	0.0	0.0
7486.9	60°	2442.3	570.2	94.1	47.1	47.1	0.0	0.0	0.0	0.0	0.0
6138.0	62.5°	1686.5	497.6	107.6	60.5	48.4	0.0	0.0	0.0	0.0	0.0
4525.5	65°	1192.9	449.2	117.0	64.6	39.0	0.0	0.0	0.0	0.0	0.0
3215.6	67.5°	891.7	414.2	129.1	65.9	20.2	0.0	0.0	0.0	0.0	0.0
2017.3	70°	683.2	388.7	158.7	69.9	5.4	0.0	0.0	0.0	0.0	0.0
1202.3	72.5°	556.8	359.1	192.3	72.6	0.0	0.0	0.0	0.0	0.0	0.0
720.9	75°	461.3	324.1	185.6	79.3	0.0	0.0	0.0	0.0	0.0	0.0
384.6	77.5°	306.6	251.5	169.5	79.3	0.0	0.0	0.0	0.0	0.0	0.0
137.2	80°	107.6	99.5	131.8	69.9	0.0	0.0	0.0	0.0	0.0	0.0
28.2	82.5°	16.1	13.4	18.8	24.2	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°
78.0	0°	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
55.1	2.5°	55.1	55.1	53.8	55.1	55.1	57.8	64.6	74.0	84.7	88.8
47.1	5°	45.7	44.4	43.0	43.0	43.0	47.1	52.5	63.2	75.3	80.7
39.0	7.5°	37.7	36.3	35.0	33.6	33.6	36.3	43.0	55.1	67.2	72.6
32.3	10°	30.9	28.2	26.9	25.6	25.6	28.2	35.0	47.1	60.5	65.9
26.9	12.5°	25.6	21.5	18.8	17.5	16.1	20.2	26.9	37.7	52.5	59.2
20.2	15°	17.5	13.4	9.4	8.1	6.7	10.8	17.5	29.6	44.4	52.5
10.8	17.5°	9.4	4.0	1.3	0.0	0.0	2.7	8.1	21.5	36.3	43.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	26.9	33.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	16.1	22.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	12.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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	4.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
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°
78.0	0°	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
92.8	2.5°	95.5	94.1	91.5	88.8	88.8	88.8	92.8	96.8	100.9	100.9
83.4	5°	88.8	88.8	87.4	84.7	84.7	86.1	91.5	98.2	103.6	104.9
76.7	7.5°	82.0	84.7	82.0	80.7	82.0	83.4	88.8	96.8	104.9	107.6
71.3	10°	78.0	79.3	79.3	78.0	78.0	80.7	86.1	96.8	107.6	111.6
64.6	12.5°	72.6	75.3	74.0	74.0	74.0	76.7	83.4	95.5	110.3	115.7
57.8	15°	67.2	71.3	71.3	69.9	69.9	71.3	80.7	94.1	114.3	123.7
49.8	17.5°	61.9	65.9	67.2	64.6	64.6	67.2	76.7	94.1	117.0	133.1
40.3	20°	51.1	57.8	61.9	57.8	57.8	60.5	69.9	88.8	118.3	142.6
29.6	22.5°	40.3	47.1	52.5	51.1	51.1	52.5	64.6	84.7	119.7	158.7
17.5	25°	29.6	36.3	40.3	43.0	43.0	47.1	59.2	82.0	125.1	192.3
8.1	27.5°	17.5	25.6	30.9	33.6	35.0	40.3	55.1	79.3	134.5	240.7
0.0	30°	8.1	14.8	21.5	26.9	26.9	36.3	51.1	76.7	146.6	310.7
0.0	32.5°	0.0	6.7	10.8	18.8	20.2	29.6	47.1	74.0	164.1	377.9
0.0	35°	0.0	0.0	5.4	14.8	14.8	24.2	43.0	71.3	191.0	429.0
0.0	37.5°	0.0	0.0	0.0	10.8	12.1	21.5	41.7	69.9	196.4	433.0
0.0	40°	0.0	0.0	0.0	8.1	9.4	20.2	41.7	71.3	177.5	423.6
0.0	42.5°	0.0	0.0	0.0	5.4	6.7	20.2	41.7	74.0	160.0	434.4
0.0	45°	0.0	0.0	0.0	4.0	5.4	21.5	40.3	72.6	150.6	490.9
0.0	47.5°	0.0	0.0	0.0	5.4	8.1	21.5	39.0	71.3	152.0	677.8
0.0	50°	0.0	0.0	0.0	6.7	9.4	21.5	40.3	68.6	166.8	1042.3
0.0	52.5°	0.0	0.0	0.0	5.4	8.1	24.2	44.4	67.2	181.6	1355.6
0.0	55°	0.0	0.0	0.0	1.3	4.0	30.9	48.4	67.2	204.4	1433.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	35.0	55.1	71.3	242.1	1402.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	35.0	56.5	71.3	244.8	1375.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	35.0	61.9	79.3	263.6	1225.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	29.6	74.0	99.5	274.4	962.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	24.2	87.4	108.9	282.4	766.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	22.9	90.1	110.3	286.5	610.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	24.2	88.8	118.3	299.9	496.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	26.9	80.7	130.5	299.9	439.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	28.2	75.3	146.6	273.0	380.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	26.9	74.0	170.8	243.4	313.4
0.0	80°	2.7	4.0	4.0	2.7	2.7	22.9	72.6	173.5	207.1	215.2
1.3	82.5°	8.1	10.8	9.4	6.7	6.7	20.2	64.6	145.2	107.6	92.8
8.1	85°	14.8	17.5	17.5	14.8	14.8	18.8	40.3	52.5	36.3	29.6
14.8	87.5°	20.2	22.9	22.9	20.2	20.2	18.8	17.5	16.1	14.8	14.8
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: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

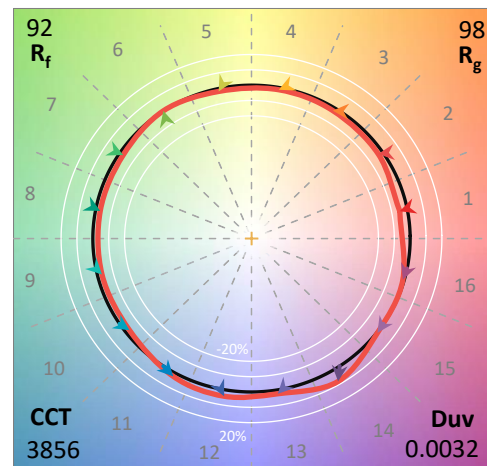
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-16
 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-940-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3856
 CIE u' : 0.2261
 CIE v' : 0.5084
 Duv: 0.0032
 CIE x: 0.3896
 CIE y: 0.3894
 CIE z: 0.2211
 Peak Wavelength (nm): 614
 Dominant Wavelength (nm): 578
 Purity: 33.77304
 R_f: 91.8
 R_g: 98.4

CRI (Ra): 92.1
 R1: 91.8
 R2: 94.1
 R3: 95.3
 R4: 92.8
 R5: 91.0
 R6: 91.6
 R7: 95.0
 R8: 85.2
 R9: 60.7
 R10: 85.2
 R11: 92.4
 R12: 74.5
 R13: 92.3
 R14: 97.0
 R15: 88.5



Test Conditions

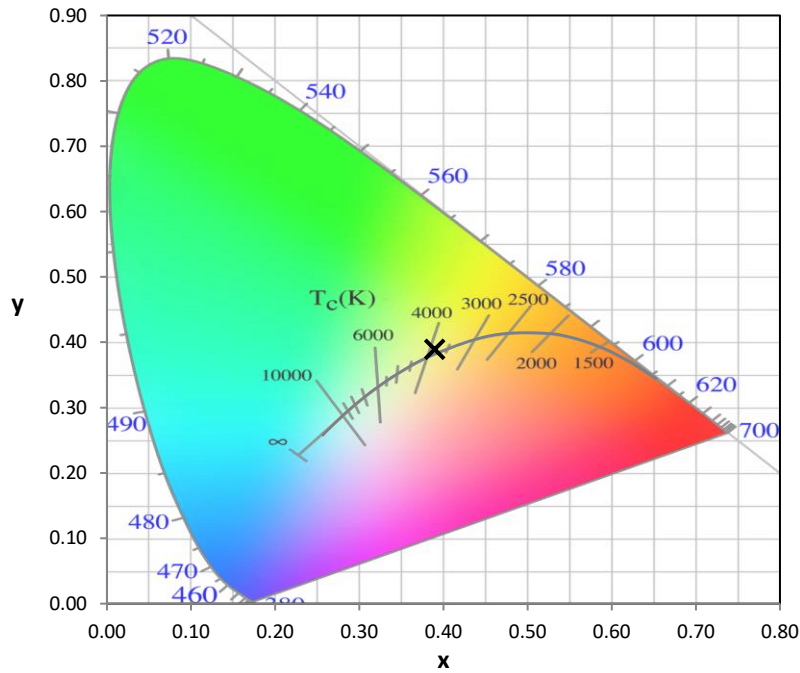
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

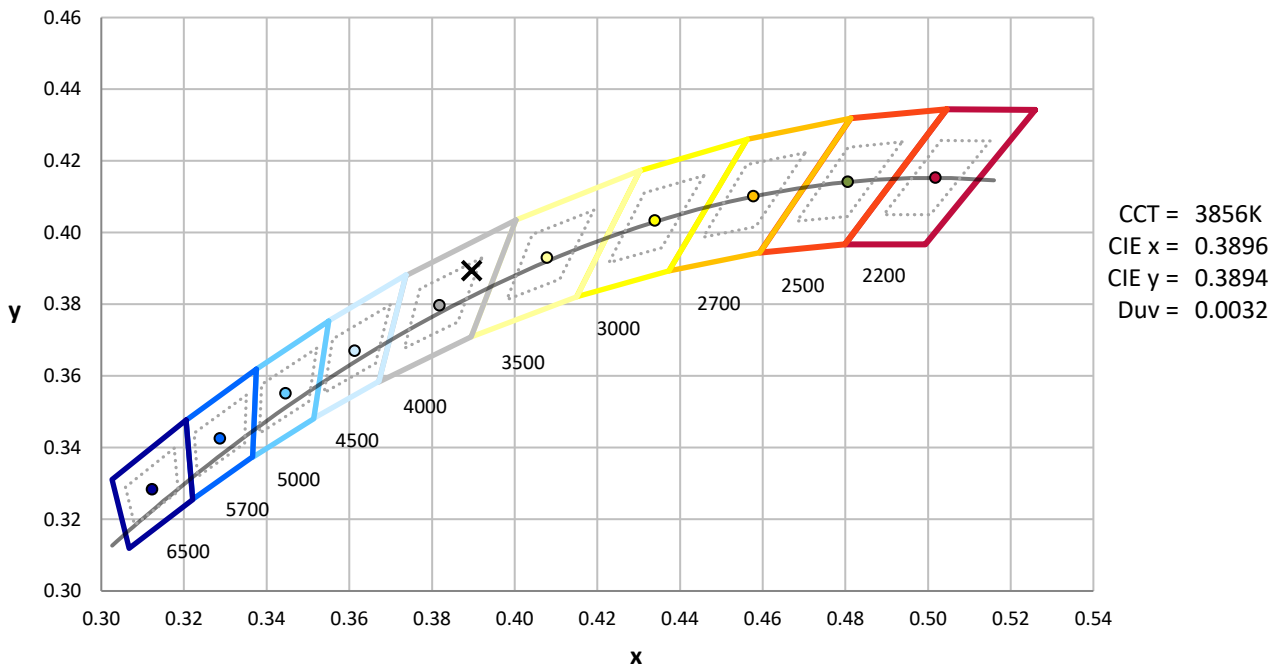
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-16

CIE 1931 Chromaticity Diagram



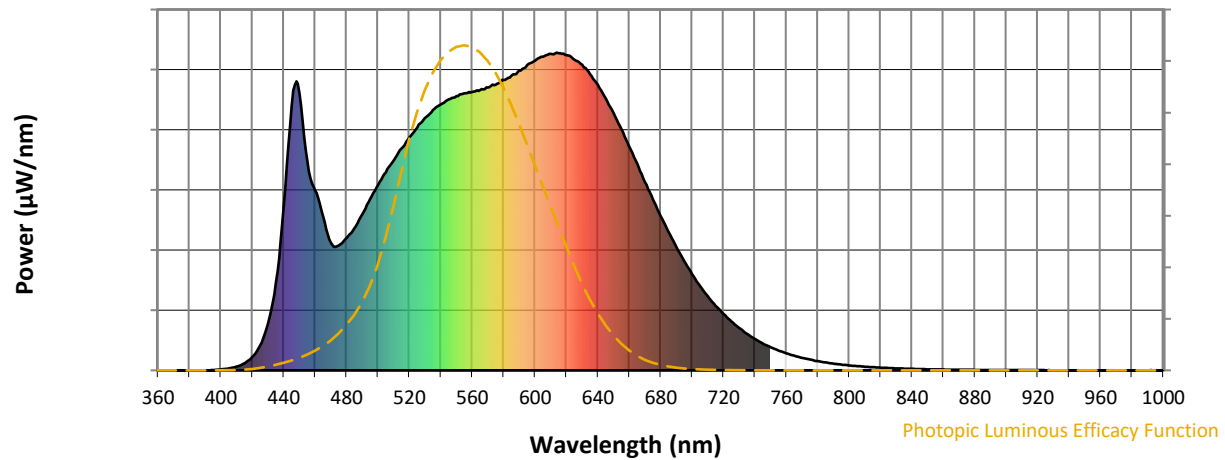
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

Photopic Flux vs. Wavelength

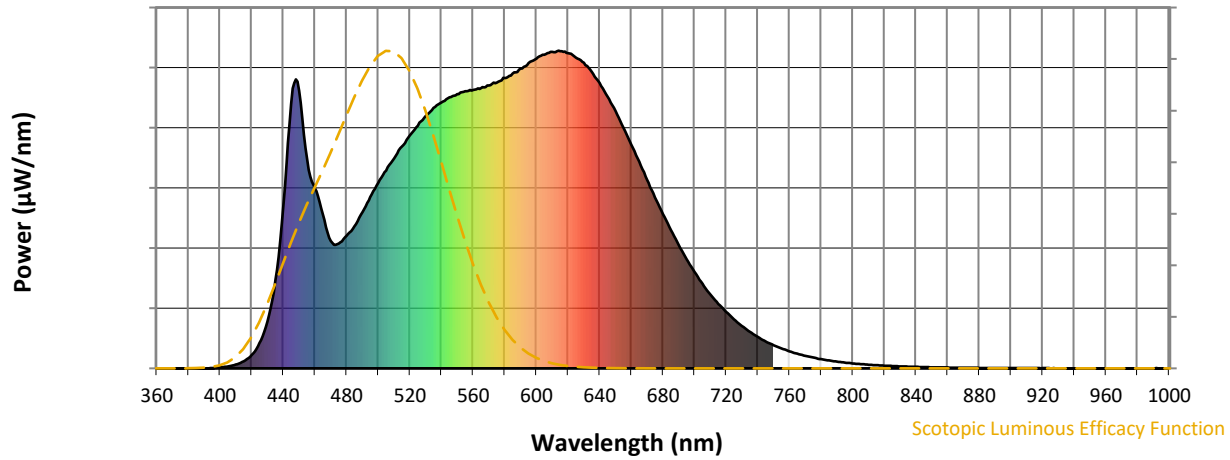


Photopic Lumens: NR

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Scotopic Flux vs. Wavelength



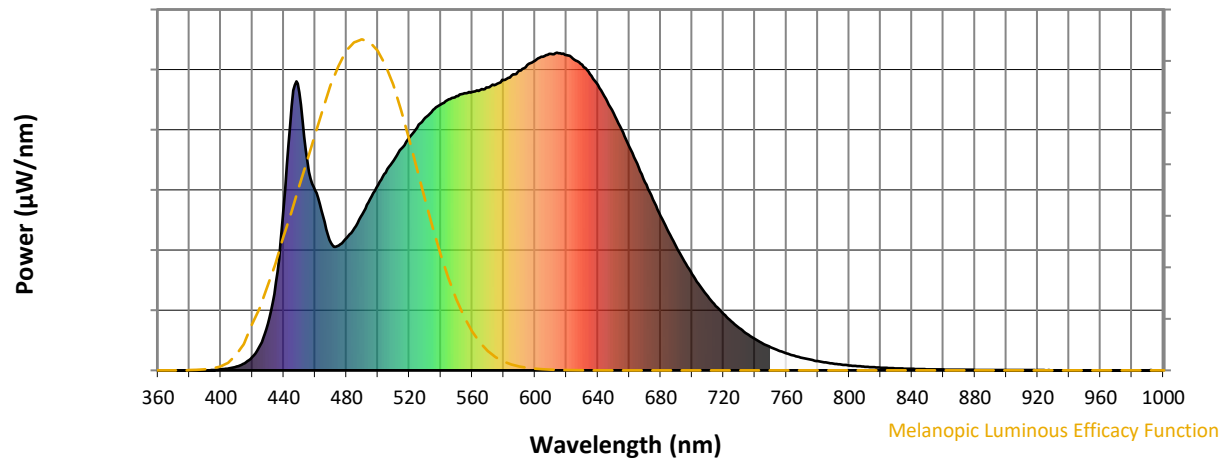
Scotopic Lumens: NR

S/P: 1.72

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.52

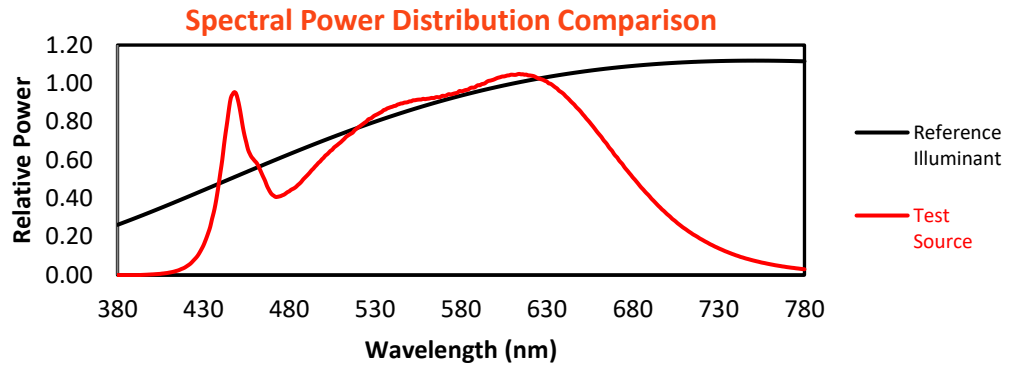
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

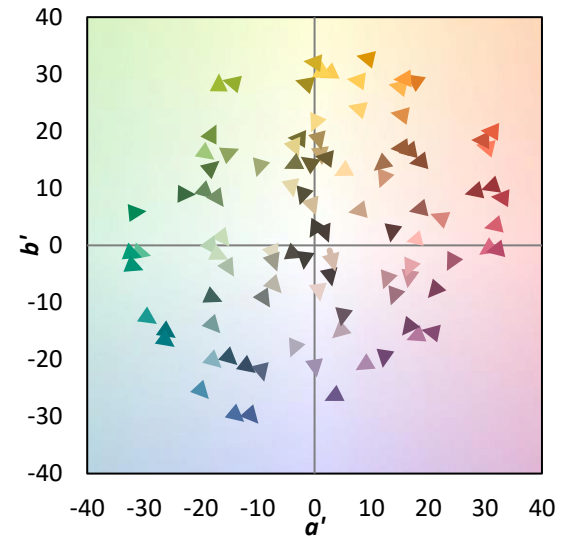
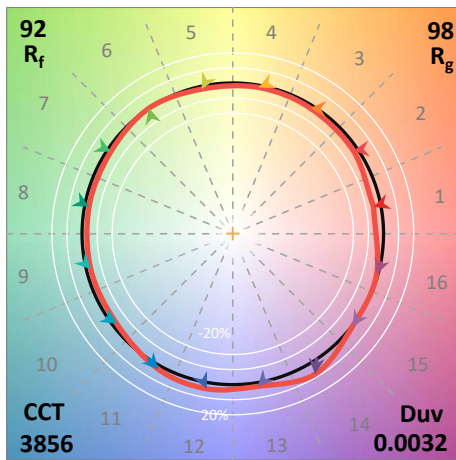
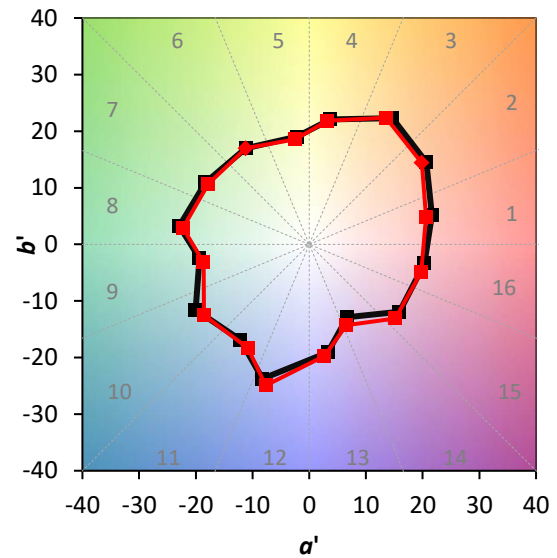
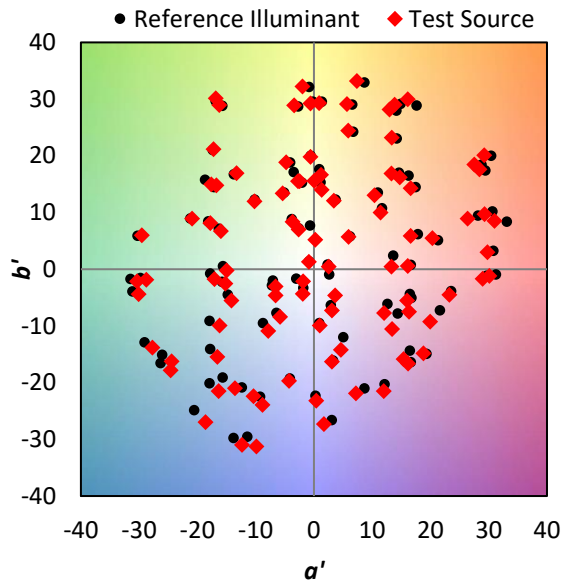
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 98.4$
 $CIE R_a = 92.1$
 $R_9 = 60.7$

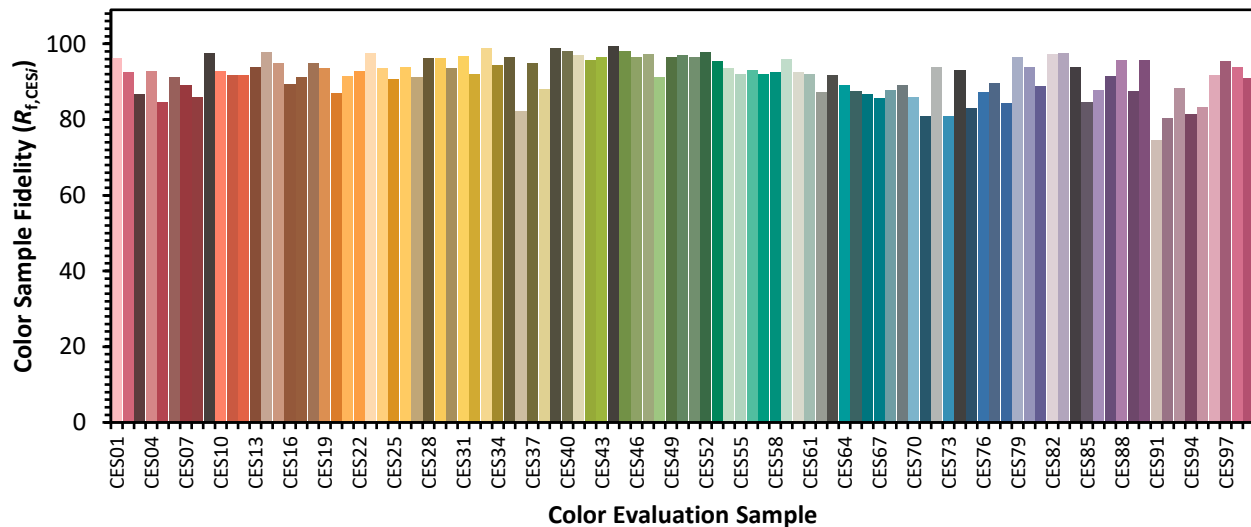


Color Vector Graphics

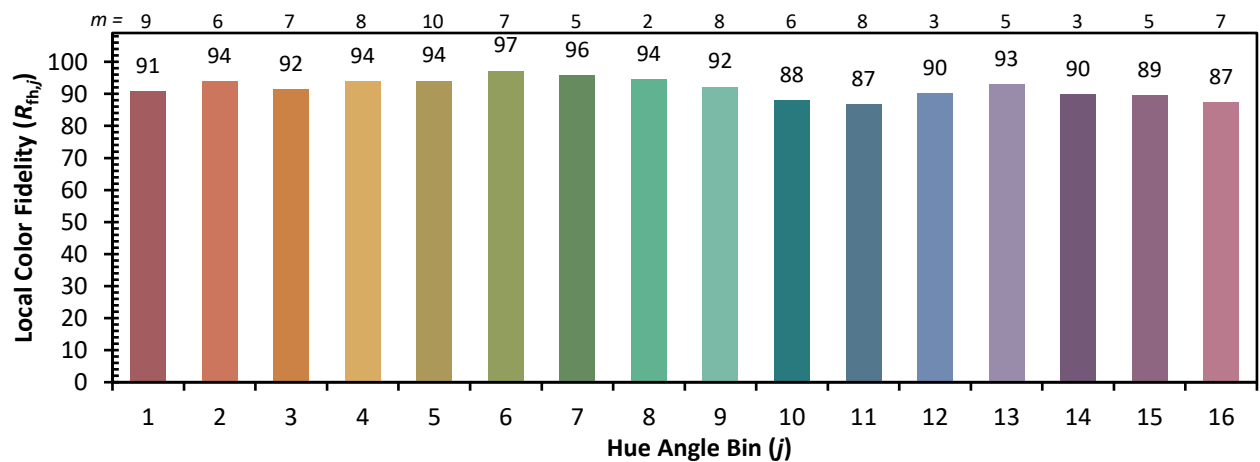
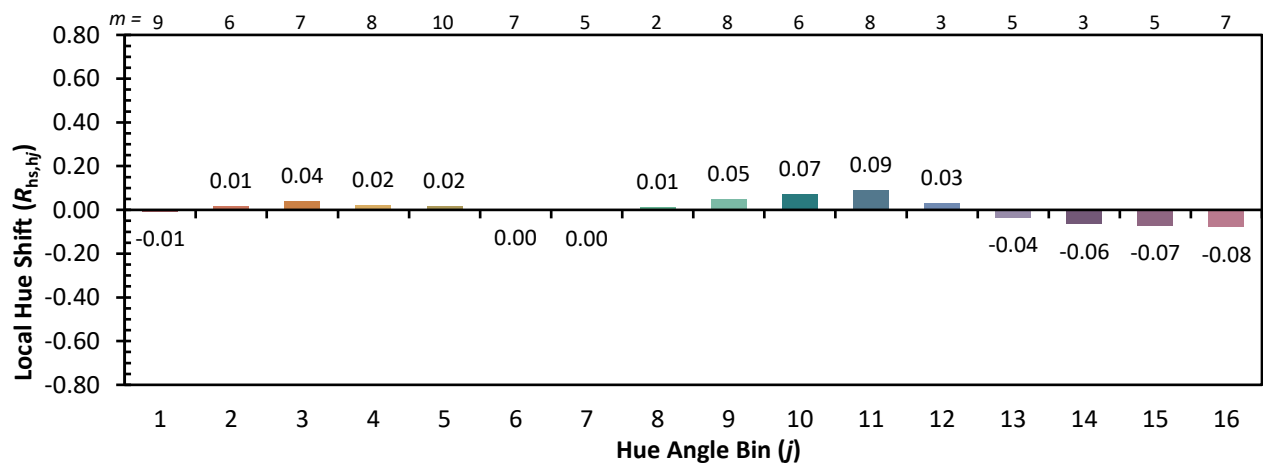
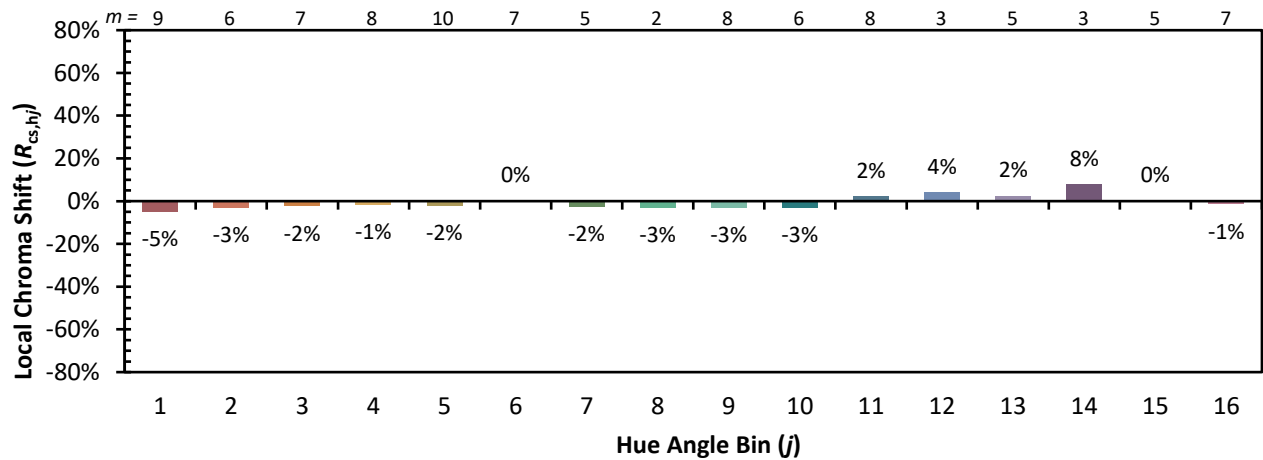


Individual Sample Fidelity Index ($R_{f,i}$)

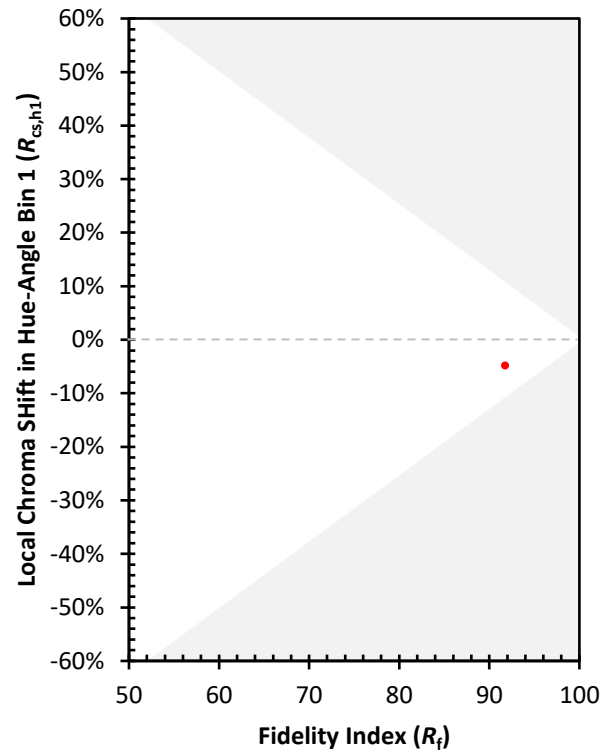
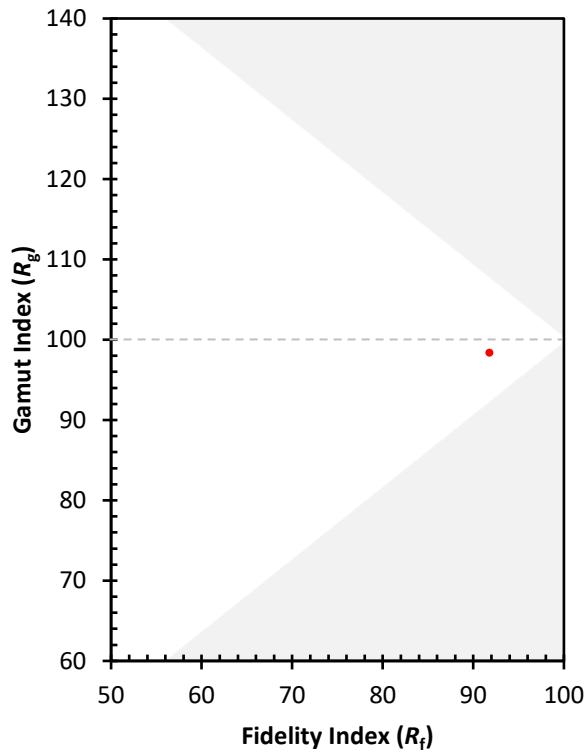
CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82 = 97
CES08 = 41	CES33 = 99	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 74	CES35 = 96	CES60 = 93	CES85 = 85
CES11 = 57	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 63	CES37 = 95	CES62 = 87	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 87	CES91 = 74
CES17 = 49	CES42 = 96	CES67 = 86	CES92 = 80
CES18 = 56	CES43 = 96	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 82
CES20 = 66	CES45 = 98	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 81	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 91	CES73 = 81	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 93	CES99 = 91
CES25 = 71	CES50 = 97	CES75 = 83	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)