

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: P1049650

Luminaire Tested: **GALN-SA3B-750-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049650
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12883 lumens
Efficiency: N/A
Efficacy: 121.3 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): 106.2
Input Voltage (V): 120
Input Current (A_{in}): 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

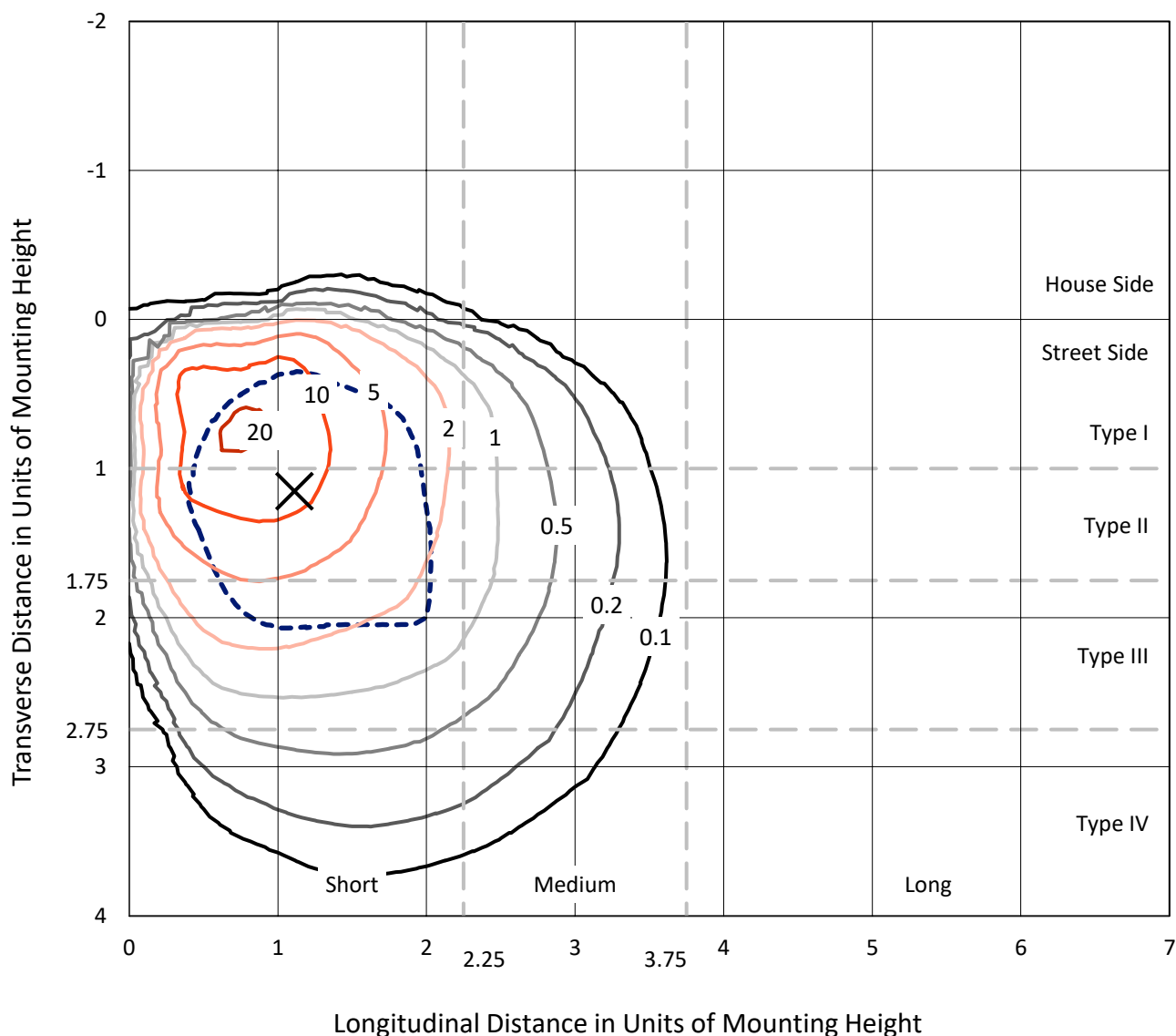
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

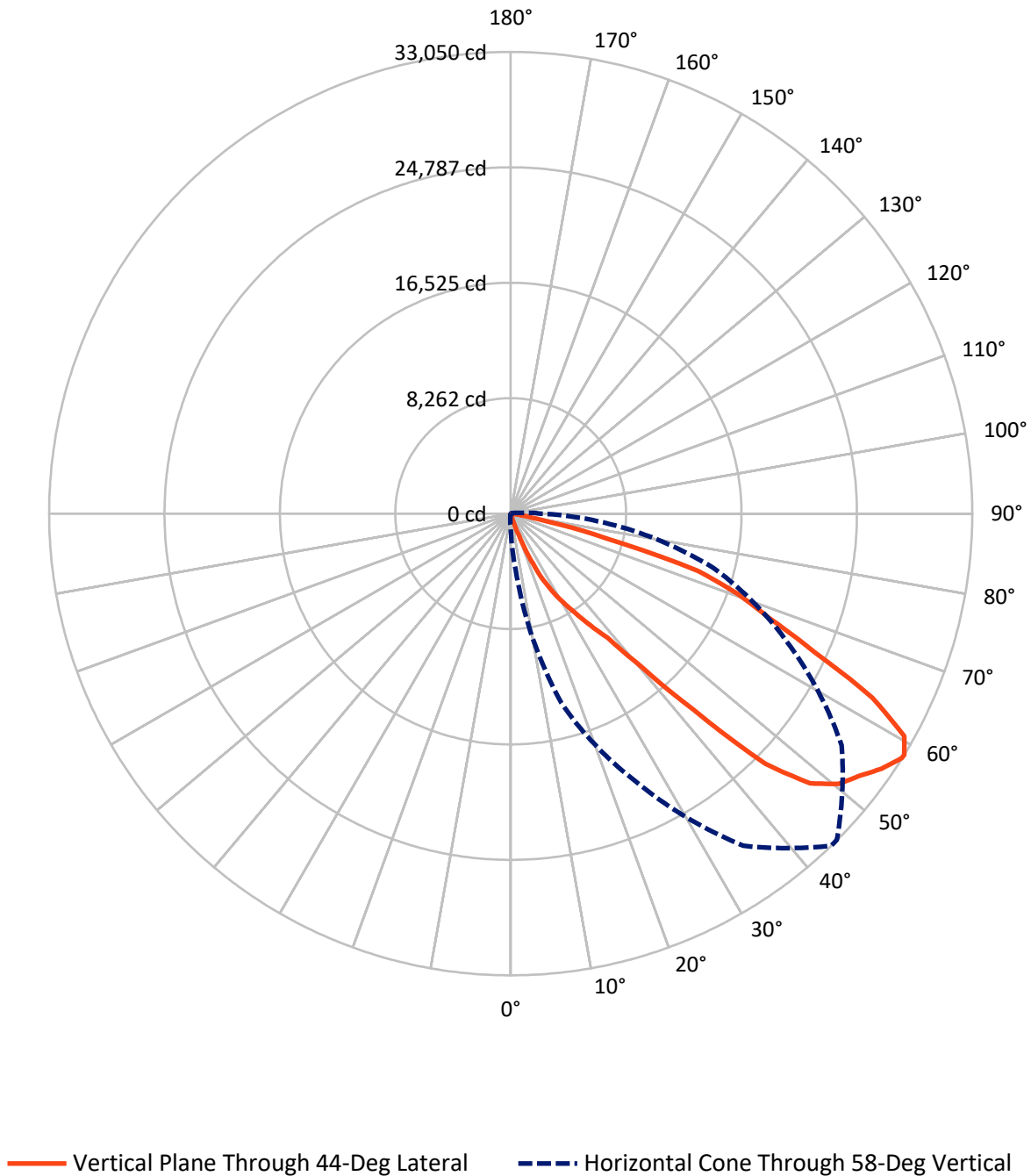


Based on 20 foot mounting height. Maximum calculated value = 22.4 fc

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	88.0	0.0	88.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	12795.0	0.0	12795.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	12883.0	0.0	12883.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.0
10°-20°	28.3	0.2
20°-30°	305.2	2.4
30°-40°	902.6	7.0
40°-50°	2690.2	20.9
50°-60°	4268.6	33.1
60°-70°	3560.6	27.6
70°-80°	1098.1	8.5
80°-90°	24.4	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°	12883.0	100.0
0°-180°	12883.0	100.0



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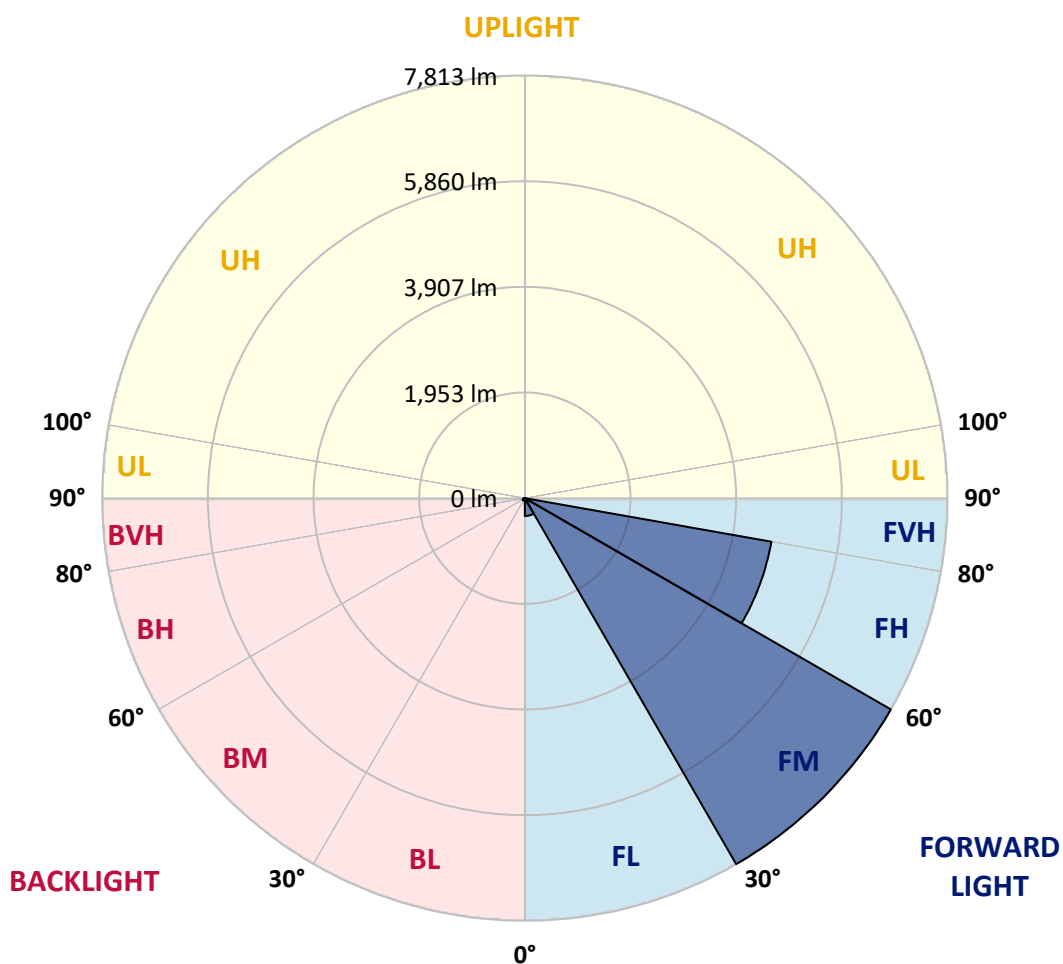
CATALOG NUMBER: GALN-SA3B-750-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	329.9	2.6			
FM	(30°-60°)	7813.2	60.6			
FH	(60°-80°)	4628.7	35.9			G2/5000
FVH	(80°-90°)	23.2	0.2			G1/100
BL	(0°-30°)	8.6	0.1	B0/110		
BM	(30°-60°)	48.1	0.4	B0/220		
BH	(60°-80°)	30.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.2	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°	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
2.5°	73.0	73.0	70.1	66.2	62.3	58.4	57.4	55.5	54.5	53.5
5°	75.9	75.9	74.9	72.0	68.1	65.2	65.2	62.3	60.3	58.4
7.5°	77.9	78.8	80.8	79.8	77.9	74.9	74.9	73.0	70.1	65.2
10°	80.8	83.7	87.6	89.5	90.5	90.5	89.5	88.6	83.7	76.9
12.5°	83.7	89.5	99.3	109.0	114.8	122.6	121.6	119.7	107.1	92.5
15°	89.5	98.3	118.7	147.0	190.7	218.0	228.7	219.0	177.1	124.6
17.5°	96.3	110.9	172.3	307.5	504.1	597.5	654.0	608.2	402.9	236.5
20°	103.2	135.3	320.2	797.0	1308.0	1613.6	1698.2	1565.9	1005.3	450.6
22.5°	114.8	189.8	649.1	1647.6	2818.4	3276.8	3363.4	2940.0	1898.7	889.5
25°	139.2	275.4	1119.2	2685.1	4206.2	4979.9	4943.8	4389.1	3080.2	1420.9
27.5°	174.2	401.0	1692.4	3814.9	5535.6	6217.8	6299.5	5613.4	4105.9	2089.5
30°	224.8	555.7	2307.5	4720.0	6601.2	7338.9	7352.5	6643.1	5023.6	2676.3
32.5°	273.5	701.7	2845.6	5594.9	7651.3	8460.0	8520.4	7647.4	5708.8	3287.5
35°	310.5	797.0	3390.6	6363.7	8710.1	9824.4	9820.5	8784.1	6520.4	3833.4
37.5°	313.4	892.4	3884.0	7150.1	10051.2	11298.8	11422.4	10279.9	7501.4	4508.8
40°	306.6	999.5	4508.8	8376.3	12467.6	14381.9	14490.9	13050.6	9469.2	5665.0
42.5°	314.3	1185.4	5522.9	10640.9	16480.1	19229.4	19439.6	17925.3	13086.6	8024.0
45°	355.2	1534.7	7647.4	14429.6	22199.6	25551.3	25481.2	23300.3	17295.7	11615.1
47.5°	490.5	2390.2	10796.7	18117.1	25855.0	28839.8	28900.1	26234.5	19752.0	14376.1
50°	754.2	3657.3	13442.8	20066.4	27426.7	30421.2	30364.8	27284.6	20685.3	15735.6
52.5°	981.0	4574.0	14770.2	20750.5	27628.1	31202.7	31198.8	27561.0	20830.3	15852.4
55°	1037.4	4643.1	14780.9	20787.5	28079.7	32225.5	32354.0	28241.2	21018.2	15342.5
57.5°	1015.0	4110.8	14163.9	21001.6	28883.5	33016.7	33023.5	28900.1	21495.0	15030.1
58°	995.6	4027.1	14039.4	21123.3	29021.7	33049.8	33033.3	28930.3	21883.3	15018.4
60°	886.6	3496.7	13553.7	21433.7	28816.4	32370.5	32215.8	28271.4	21825.9	14898.7
62.5°	696.8	2727.9	13075.9	21074.6	26615.0	29082.1	29146.3	25029.7	19897.0	14200.9
65°	554.7	2033.0	12079.3	18485.9	21916.4	23882.3	24121.7	20353.5	16607.6	12024.8
67.5°	441.8	1469.5	10132.9	14717.7	17342.4	19932.1	20106.3	17088.4	12866.7	9213.3
70°	359.1	993.6	6994.4	10763.6	14304.1	17215.9	17226.6	14196.0	9603.5	6036.7
72.5°	318.2	688.1	4060.2	7849.8	11598.6	14028.7	13745.5	11519.7	7380.7	3575.5
75°	275.4	456.4	1991.2	4798.8	7032.3	7080.0	7188.0	5343.8	3689.4	1700.2
77.5°	226.8	324.1	784.4	1310.9	2108.9	2699.7	2799.9	2121.6	1227.2	418.5
80°	155.7	153.8	211.2	401.9	603.4	756.2	705.6	546.0	321.2	160.6
82.5°	67.2	73.0	95.4	114.8	93.4	90.5	86.6	55.5	42.8	33.1
85°	21.4	19.5	20.4	20.4	16.5	12.7	12.7	5.8	0.0	0.0
87.5°	10.7	8.8	8.8	7.8	4.9	1.9	1.0	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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CATALOG NUMBER: GALN-SA3B-750-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
56.4	0°	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
52.6	2.5°	51.6	51.6	49.6	47.7	46.7	44.8	43.8	42.8	41.8	40.9
56.4	5°	54.5	53.5	50.6	47.7	44.8	41.8	39.9	38.0	36.0	35.0
62.3	7.5°	59.4	57.4	51.6	46.7	42.8	38.9	37.0	34.1	32.1	29.2
69.1	10°	65.2	61.3	53.5	47.7	41.8	37.0	34.1	31.1	28.2	24.3
78.8	12.5°	73.0	66.2	56.4	46.7	39.9	34.1	31.1	27.2	24.3	21.4
91.5	15°	79.8	71.0	57.4	46.7	38.0	31.1	27.2	23.4	20.4	16.5
114.8	17.5°	89.5	74.9	56.4	43.8	35.0	27.2	23.4	20.4	15.6	9.7
170.3	20°	106.1	77.9	54.5	40.9	30.2	22.4	17.5	13.6	6.8	1.9
256.0	22.5°	132.4	85.6	52.6	37.0	26.3	17.5	11.7	4.9	0.0	0.0
389.3	25°	183.0	99.3	52.6	35.0	23.4	12.7	3.9	0.0	0.0	0.0
552.8	27.5°	243.3	117.8	52.6	30.2	18.5	6.8	0.0	0.0	0.0	0.0
753.3	30°	304.6	138.2	52.6	26.3	14.6	1.0	0.0	0.0	0.0	0.0
927.5	32.5°	363.0	155.7	53.5	22.4	9.7	0.0	0.0	0.0	0.0	0.0
1168.8	35°	422.4	158.6	52.6	19.5	5.8	0.0	0.0	0.0	0.0	0.0
1464.7	37.5°	498.3	152.8	49.6	17.5	2.9	0.0	0.0	0.0	0.0	0.0
1926.9	40°	613.1	155.7	46.7	16.5	1.0	0.0	0.0	0.0	0.0	0.0
2751.2	42.5°	825.3	168.4	42.8	16.5	0.0	0.0	0.0	0.0	0.0	0.0
4382.3	45°	1426.7	225.8	38.9	17.5	0.0	0.0	0.0	0.0	0.0	0.0
6578.8	47.5°	2360.0	405.8	38.0	17.5	0.0	0.0	0.0	0.0	0.0	0.0
7924.8	50°	3012.0	510.9	39.9	18.5	0.0	0.0	0.0	0.0	0.0	0.0
8093.1	52.5°	3007.2	569.3	41.8	19.5	3.9	0.0	0.0	0.0	0.0	0.0
7459.6	55°	2673.4	580.0	44.8	21.4	12.7	0.0	0.0	0.0	0.0	0.0
6410.5	57.5°	2234.5	529.4	51.6	26.3	23.4	0.0	0.0	0.0	0.0	0.0
6246.0	58°	2156.6	506.1	53.5	27.2	25.3	0.0	0.0	0.0	0.0	0.0
5417.8	60°	1767.3	412.6	68.1	34.1	34.1	0.0	0.0	0.0	0.0	0.0
4441.7	62.5°	1220.4	360.1	77.9	43.8	35.0	0.0	0.0	0.0	0.0	0.0
3274.8	65°	863.2	325.0	84.7	46.7	28.2	0.0	0.0	0.0	0.0	0.0
2326.9	67.5°	645.2	299.7	93.4	47.7	14.6	0.0	0.0	0.0	0.0	0.0
1459.8	70°	494.4	281.3	114.8	50.6	3.9	0.0	0.0	0.0	0.0	0.0
870.0	72.5°	402.9	259.8	139.2	52.6	0.0	0.0	0.0	0.0	0.0	0.0
521.6	75°	333.8	234.5	134.3	57.4	0.0	0.0	0.0	0.0	0.0	0.0
278.3	77.5°	221.9	182.0	122.6	57.4	0.0	0.0	0.0	0.0	0.0	0.0
99.3	80°	77.9	72.0	95.4	50.6	0.0	0.0	0.0	0.0	0.0	0.0
20.4	82.5°	11.7	9.7	13.6	17.5	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°
56.4	0°	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
39.9	2.5°	39.9	39.9	38.9	39.9	39.9	41.8	46.7	53.5	61.3	64.2
34.1	5°	33.1	32.1	31.1	31.1	31.1	34.1	38.0	45.7	54.5	58.4
28.2	7.5°	27.2	26.3	25.3	24.3	24.3	26.3	31.1	39.9	48.7	52.6
23.4	10°	22.4	20.4	19.5	18.5	18.5	20.4	25.3	34.1	43.8	47.7
19.5	12.5°	18.5	15.6	13.6	12.7	11.7	14.6	19.5	27.2	38.0	42.8
14.6	15°	12.7	9.7	6.8	5.8	4.9	7.8	12.7	21.4	32.1	38.0
7.8	17.5°	6.8	2.9	1.0	0.0	0.0	1.9	5.8	15.6	26.3	31.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	19.5	24.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	11.7	16.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	8.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
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	2.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	7.8
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°
56.4	0°	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
67.2	2.5°	69.1	68.1	66.2	64.2	64.2	64.2	67.2	70.1	73.0	73.0
60.3	5°	64.2	64.2	63.3	61.3	61.3	62.3	66.2	71.0	74.9	75.9
55.5	7.5°	59.4	61.3	59.4	58.4	59.4	60.3	64.2	70.1	75.9	77.9
51.6	10°	56.4	57.4	57.4	56.4	56.4	58.4	62.3	70.1	77.9	80.8
46.7	12.5°	52.6	54.5	53.5	53.5	53.5	55.5	60.3	69.1	79.8	83.7
41.8	15°	48.7	51.6	51.6	50.6	50.6	51.6	58.4	68.1	82.7	89.5
36.0	17.5°	44.8	47.7	48.7	46.7	46.7	48.7	55.5	68.1	84.7	96.3
29.2	20°	37.0	41.8	44.8	41.8	41.8	43.8	50.6	64.2	85.6	103.2
21.4	22.5°	29.2	34.1	38.0	37.0	37.0	38.0	46.7	61.3	86.6	114.8
12.7	25°	21.4	26.3	29.2	31.1	31.1	34.1	42.8	59.4	90.5	139.2
5.8	27.5°	12.7	18.5	22.4	24.3	25.3	29.2	39.9	57.4	97.3	174.2
0.0	30°	5.8	10.7	15.6	19.5	19.5	26.3	37.0	55.5	106.1	224.8
0.0	32.5°	0.0	4.9	7.8	13.6	14.6	21.4	34.1	53.5	118.7	273.5
0.0	35°	0.0	0.0	3.9	10.7	10.7	17.5	31.1	51.6	138.2	310.5
0.0	37.5°	0.0	0.0	0.0	7.8	8.8	15.6	30.2	50.6	142.1	313.4
0.0	40°	0.0	0.0	0.0	5.8	6.8	14.6	30.2	51.6	128.5	306.6
0.0	42.5°	0.0	0.0	0.0	3.9	4.9	14.6	30.2	53.5	115.8	314.3
0.0	45°	0.0	0.0	0.0	2.9	3.9	15.6	29.2	52.6	109.0	355.2
0.0	47.5°	0.0	0.0	0.0	3.9	5.8	15.6	28.2	51.6	110.0	490.5
0.0	50°	0.0	0.0	0.0	4.9	6.8	15.6	29.2	49.6	120.7	754.2
0.0	52.5°	0.0	0.0	0.0	3.9	5.8	17.5	32.1	48.7	131.4	981.0
0.0	55°	0.0	0.0	0.0	1.0	2.9	22.4	35.0	48.7	147.9	1037.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	25.3	39.9	51.6	175.2	1015.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	25.3	40.9	51.6	177.1	995.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	25.3	44.8	57.4	190.7	886.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	21.4	53.5	72.0	198.5	696.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	17.5	63.3	78.8	204.4	554.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	16.5	65.2	79.8	207.3	441.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	17.5	64.2	85.6	217.0	359.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	19.5	58.4	94.4	217.0	318.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	20.4	54.5	106.1	197.6	275.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	19.5	53.5	123.6	176.1	226.8
0.0	80°	1.9	2.9	2.9	1.9	1.9	16.5	52.6	125.5	149.9	155.7
1.0	82.5°	5.8	7.8	6.8	4.9	4.9	14.6	46.7	105.1	77.9	67.2
5.8	85°	10.7	12.7	12.7	10.7	10.7	13.6	29.2	38.0	26.3	21.4
10.7	87.5°	14.6	16.5	16.5	14.6	14.6	13.6	12.7	11.7	10.7	10.7
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: SP1-2407-184-6

Test Date: 10/10/2024

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

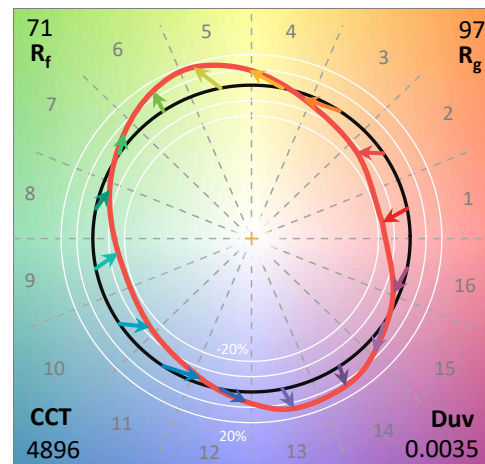
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

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

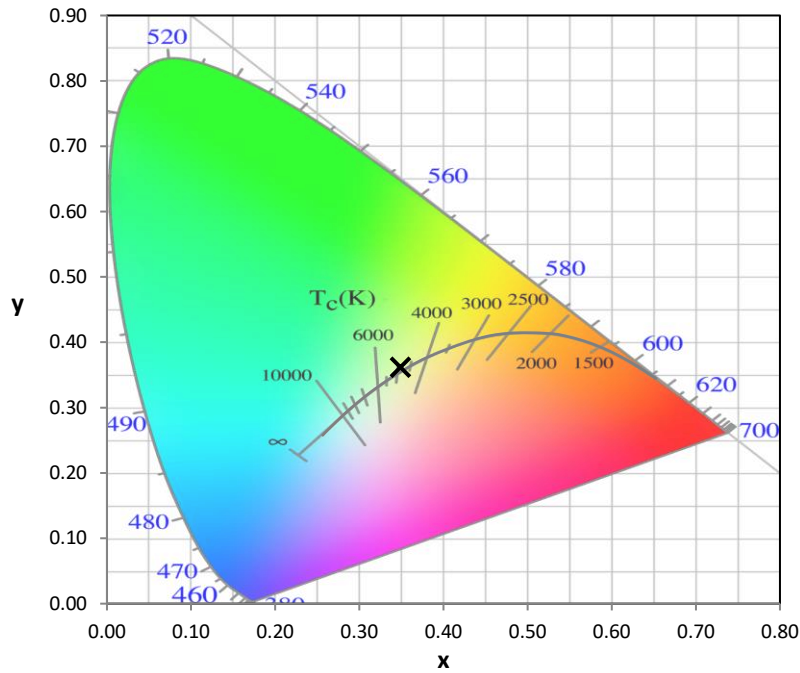
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

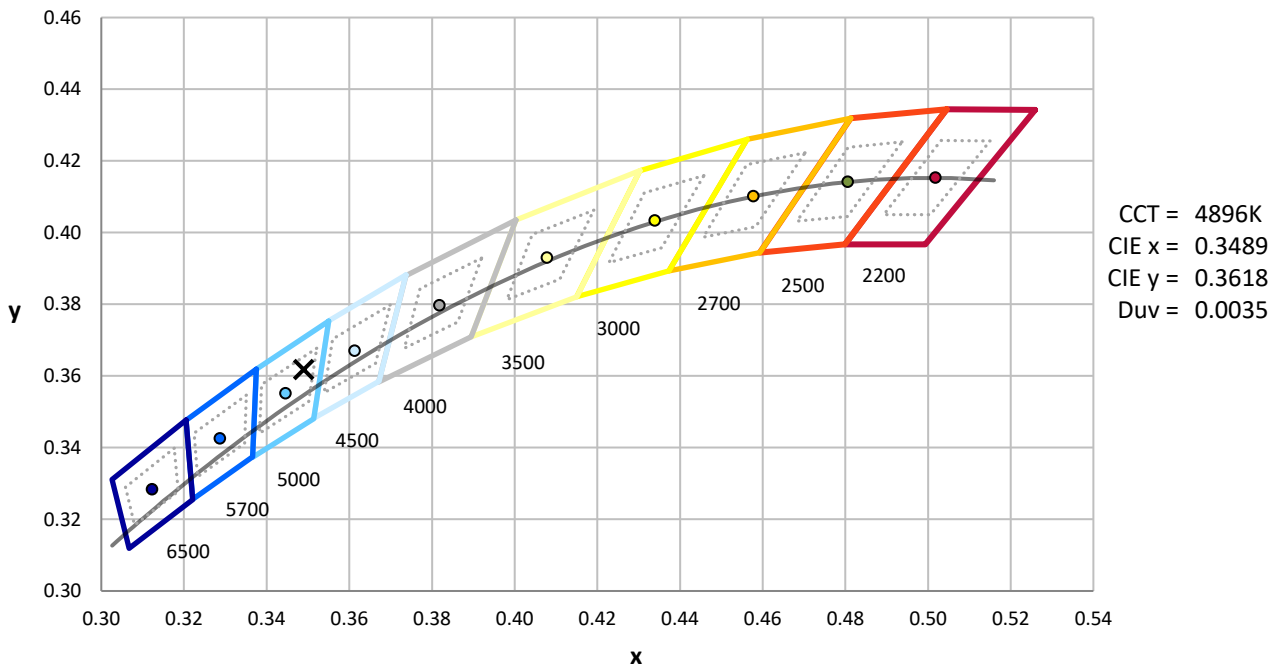
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



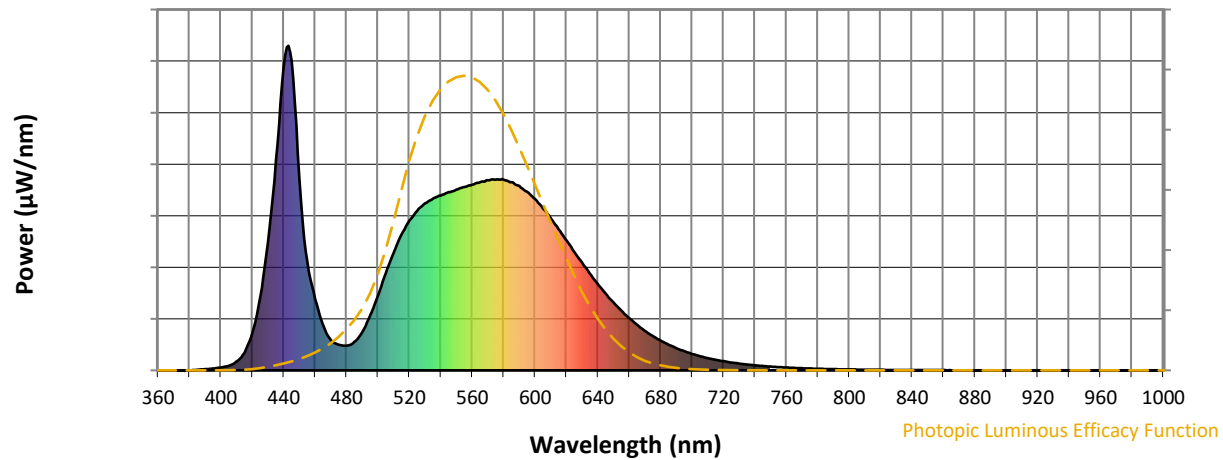
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

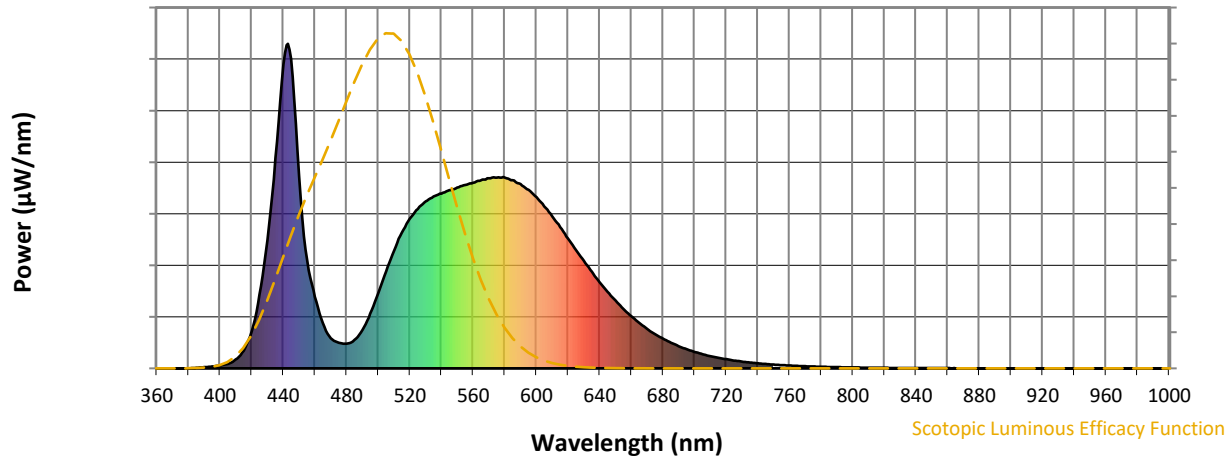


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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			

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength



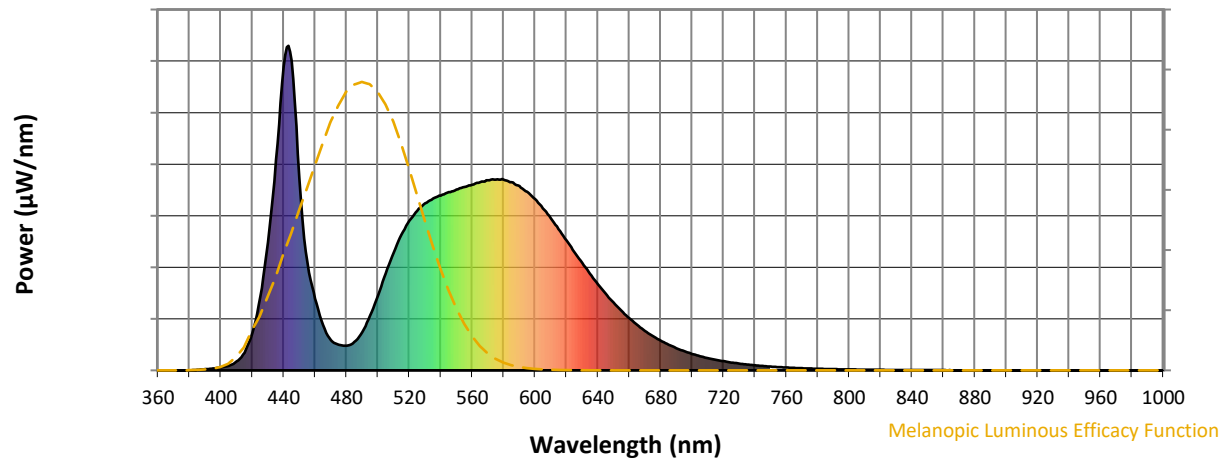
Scotopic Lumens: NR

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

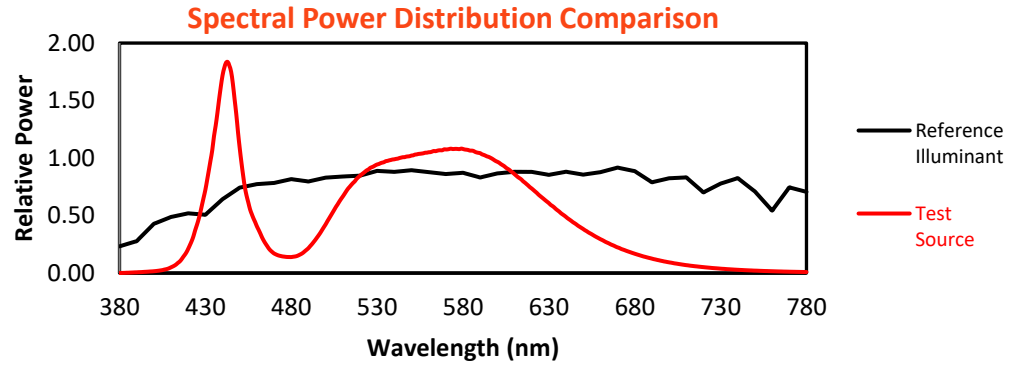
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	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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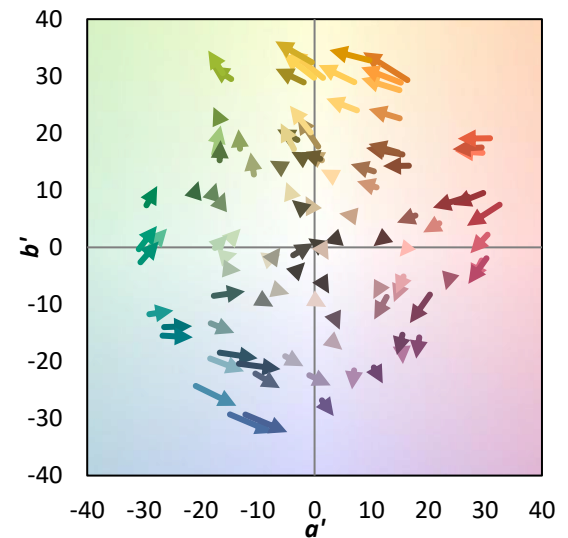
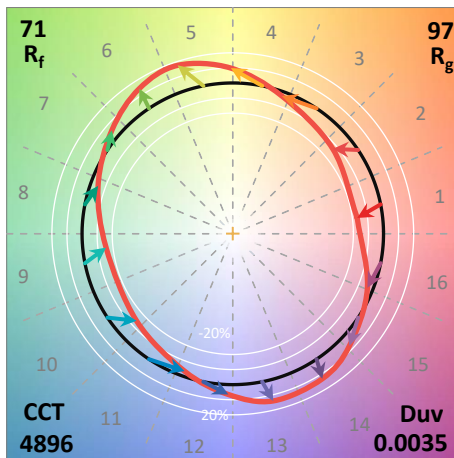
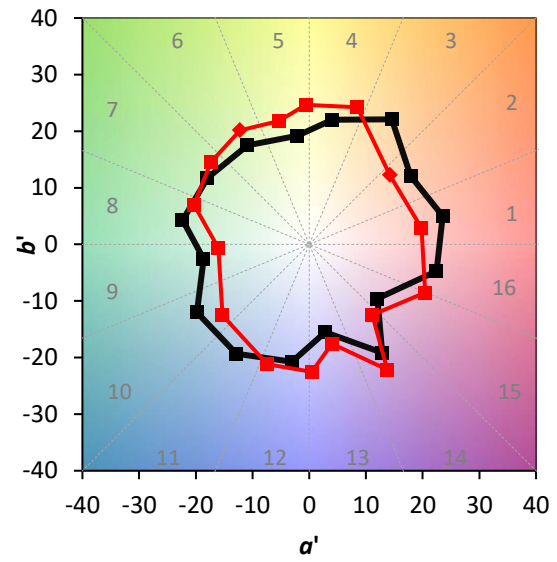
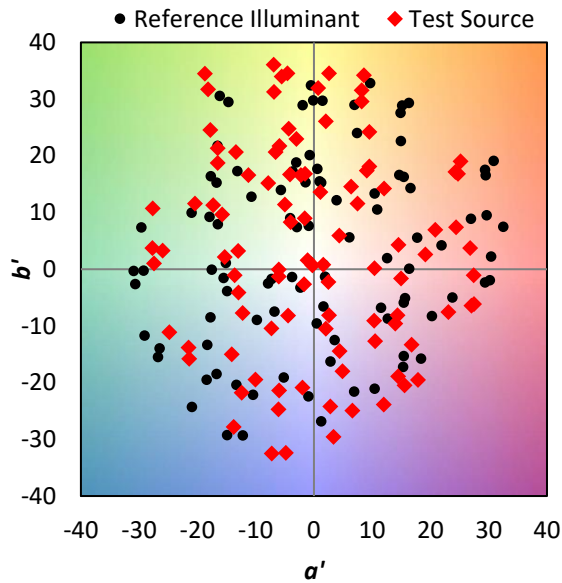
TM-30-18

Summary

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

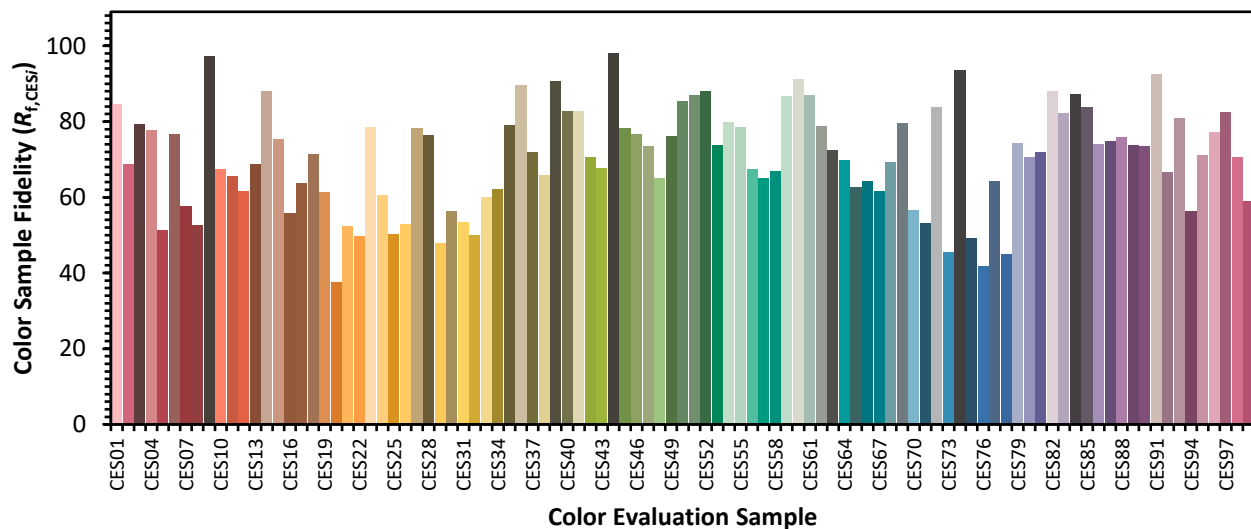


Color Vector Graphics

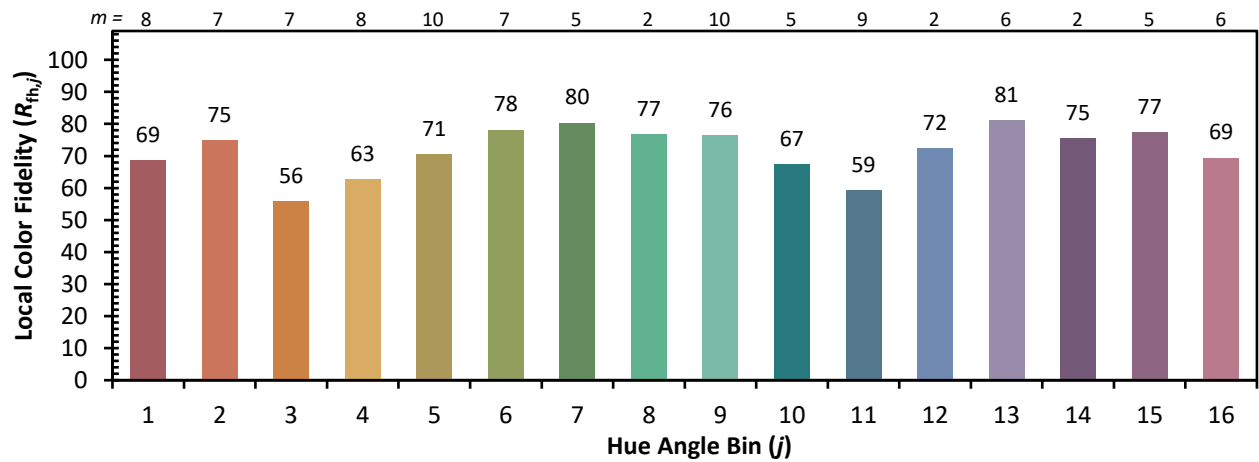
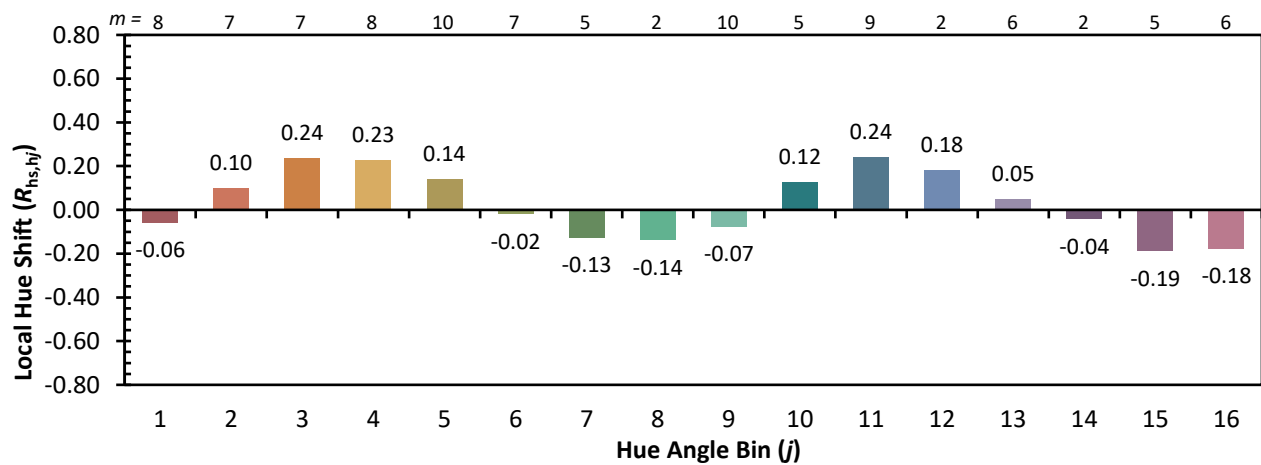
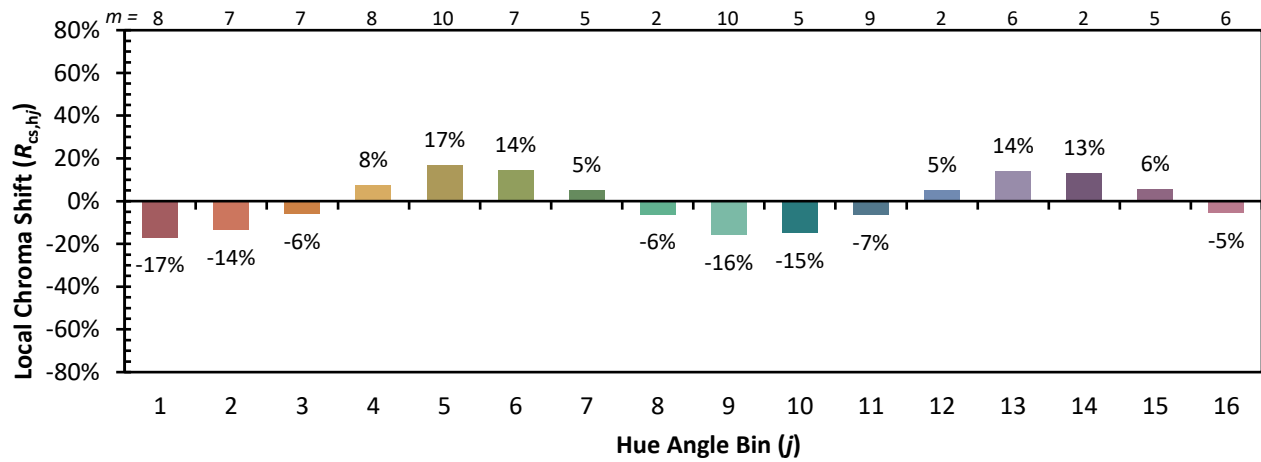


Individual Sample Fidelity Index ($R_{f,i}$)

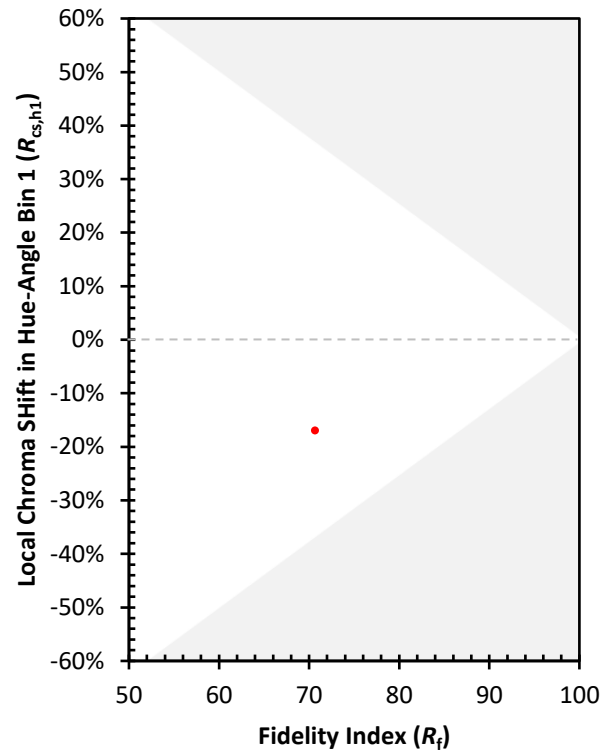
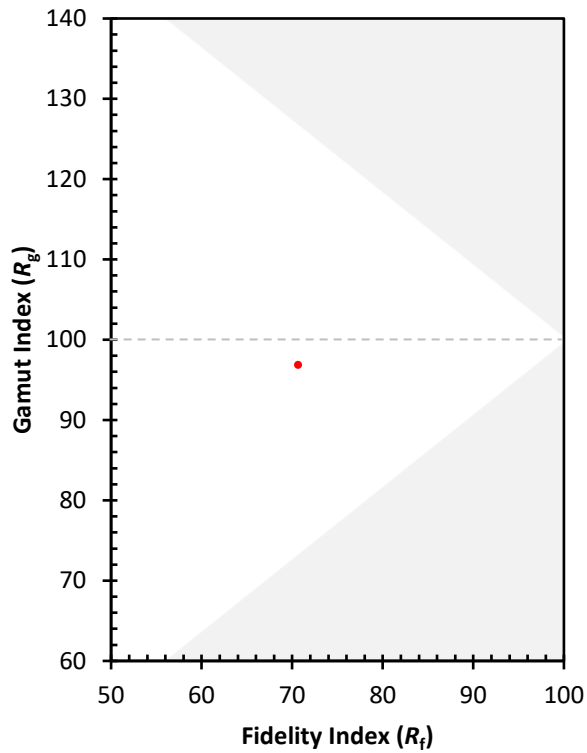
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 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)