

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: P1049873

Luminaire Tested: **GALN-SA5A-850-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049873
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-850-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14783.7 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

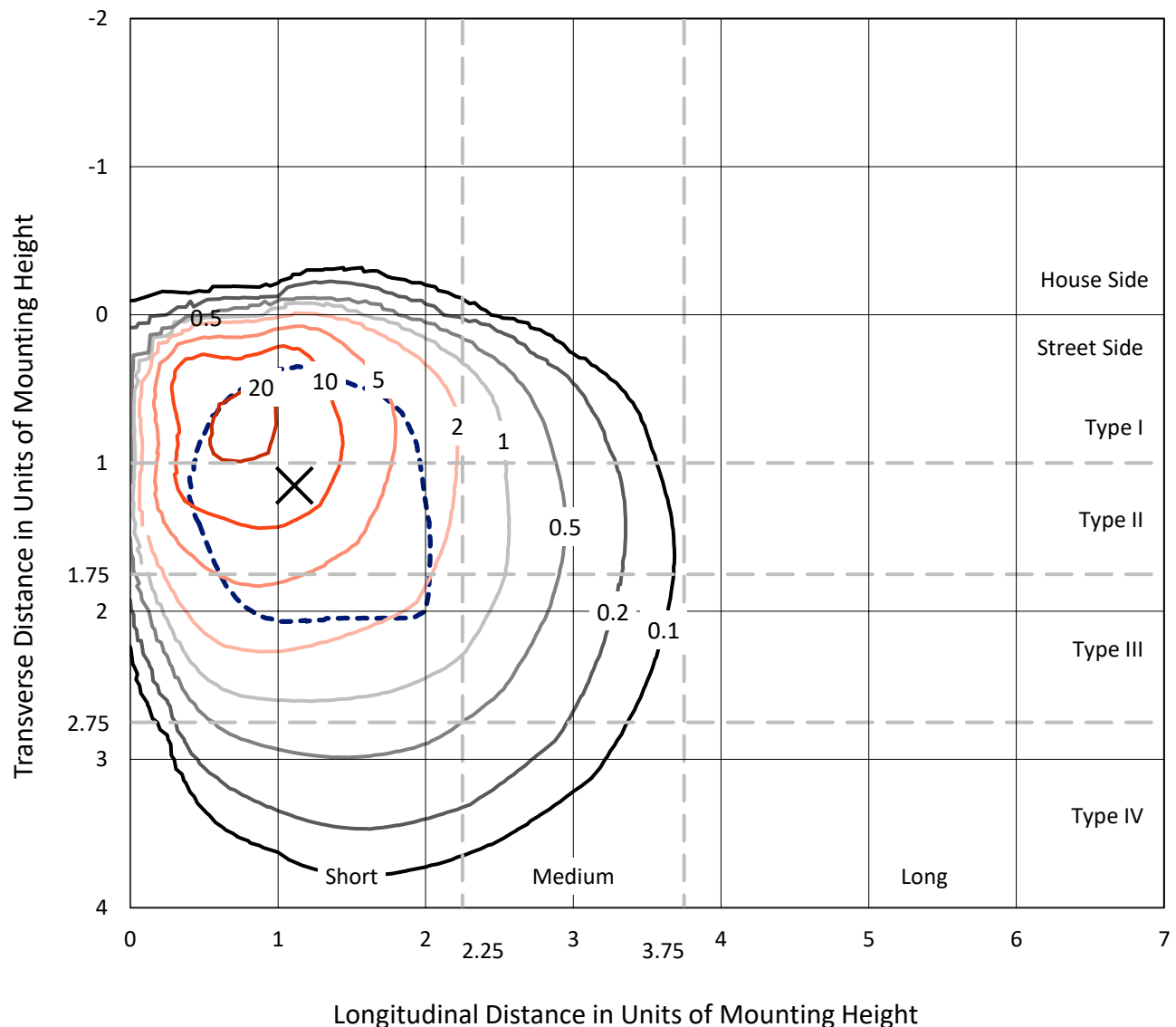
Input Watts (W): 136.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1049873

CATALOG NUMBER: GALN-SA5A-850-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

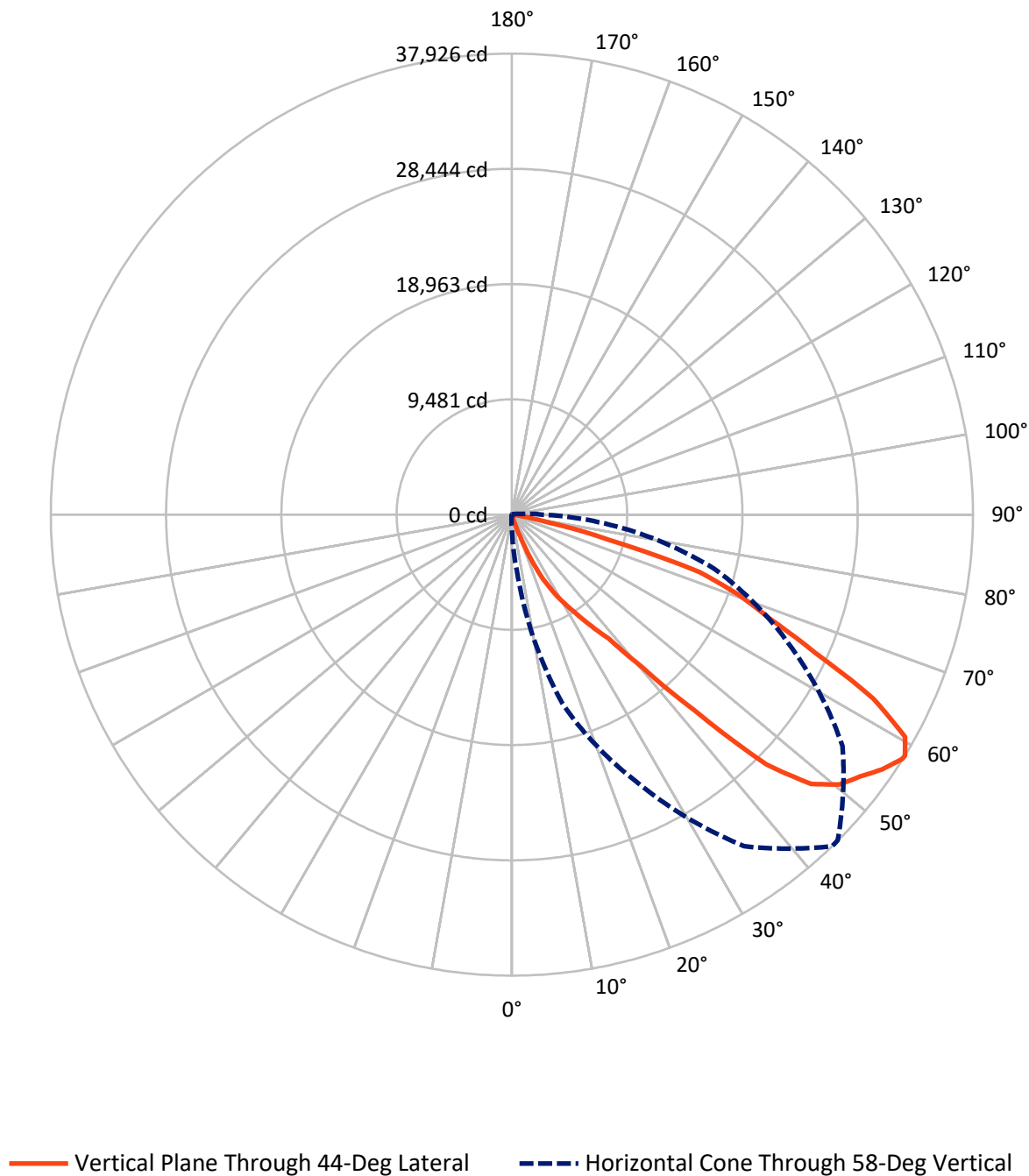


Based on 20 foot mounting height. Maximum calculated value = 25.7 fc
 Type III - Short - N/A

REPORT NUMBER: P1049873

CATALOG NUMBER: GALN-SA5A-850-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049873

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	100.9	0.0	100.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14682.7	0.0	14682.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	14783.7	0.0	14783.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.0
10°-20°	32.4	0.2
20°-30°	350.2	2.4
30°-40°	1035.7	7.0
40°-50°	3087.1	20.9
50°-60°	4898.4	33.1
60°-70°	4085.9	27.6
70°-80°	1260.1	8.5
80°-90°	28.0	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°	14783.7	100.0
0°-180°	14783.7	100.0

Coefficient of Utilization



REPORT NUMBER: P1049873

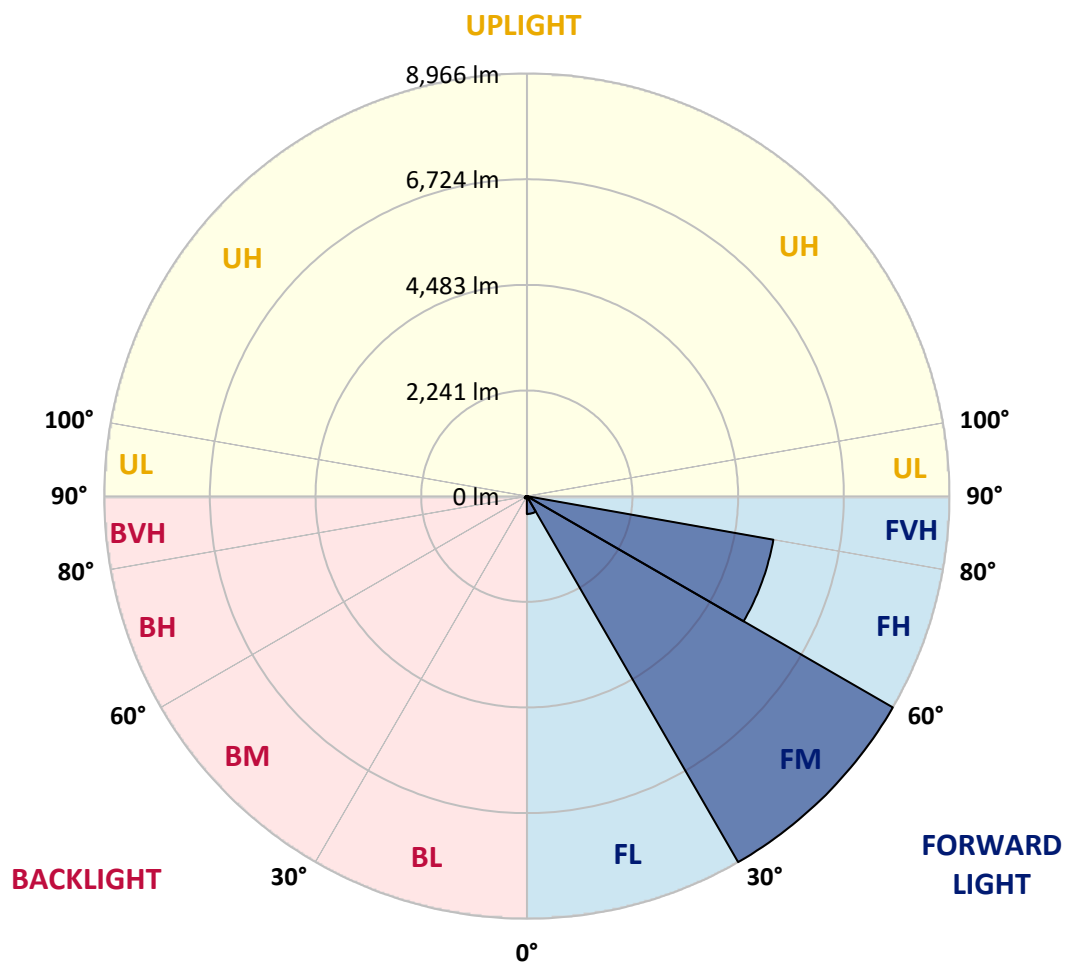
CATALOG NUMBER: GALN-SA5A-850-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	378.5	2.6			
FM	(30°-60°)	8966.0	60.6			
FH	(60°-80°)	5311.6	35.9			G3/7500
FVH	(80°-90°)	26.6	0.2			G1/100
BL	(0°-30°)	9.9	0.1	B0/110		
BM	(30°-60°)	55.2	0.4	B0/220		
BH	(60°-80°)	34.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	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



REPORT NUMBER: P1049873

CATALOG NUMBER: GALN-SA5A-850-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
2.5°	83.8	83.8	80.4	75.9	71.5	67.0	65.9	63.7	62.5	61.4
5°	87.1	87.1	86.0	82.6	78.2	74.8	74.8	71.5	69.2	67.0
7.5°	89.3	90.5	92.7	91.6	89.3	86.0	86.0	83.8	80.4	74.8
10°	92.7	96.0	100.5	102.7	103.9	103.9	102.7	101.6	96.0	88.2
12.5°	96.0	102.7	113.9	125.1	131.8	140.7	139.6	137.4	122.8	106.1
15°	102.7	112.8	136.2	168.6	218.9	250.2	262.4	251.3	203.3	142.9
17.5°	110.6	127.3	197.7	352.9	578.5	685.7	750.5	698.0	462.3	271.4
20°	118.4	155.2	367.4	914.6	1501.0	1851.6	1948.8	1796.9	1153.6	517.1
22.5°	131.8	217.8	744.9	1890.7	3234.2	3760.2	3859.6	3373.8	2178.8	1020.7
25°	159.7	316.0	1284.3	3081.2	4826.7	5714.6	5673.3	5036.7	3534.6	1630.5
27.5°	199.9	460.1	1942.1	4377.8	6352.3	7135.1	7228.9	6441.6	4711.7	2397.7
30°	258.0	637.7	2647.9	5416.4	7575.1	8421.7	8437.3	7623.2	5764.8	3071.1
32.5°	313.8	805.2	3265.5	6420.4	8780.1	9708.2	9777.4	8775.7	6551.0	3772.5
35°	356.3	914.6	3890.9	7302.6	9995.2	11273.9	11269.4	10080.1	7482.4	4399.0
37.5°	359.6	1024.1	4457.1	8205.0	11534.1	12965.8	13107.7	11796.6	8608.2	5174.0
40°	351.8	1146.9	5174.0	9612.1	14307.1	16503.8	16628.9	14976.0	10866.3	6500.8
42.5°	360.7	1360.2	6337.7	12210.9	18911.6	22066.5	22307.7	20570.0	15017.4	9207.9
45°	407.6	1761.2	8775.7	16558.5	25474.9	29321.1	29240.7	26738.0	19847.4	13328.8
47.5°	562.9	2742.8	12389.6	20790.0	29669.5	33094.7	33163.9	30105.1	22666.2	16497.1
50°	865.5	4196.9	15426.1	23026.9	31473.1	34909.5	34844.7	31310.1	23737.2	18057.2
52.5°	1125.7	5248.9	16949.4	23812.0	31704.3	35806.3	35801.8	31627.3	23903.6	18191.3
55°	1190.5	5328.2	16961.7	23854.5	32222.5	36980.0	37127.4	32407.9	24119.1	17606.1
57.5°	1164.8	4717.3	16253.6	24100.1	33145.0	37887.9	37895.8	33163.9	24666.4	17247.6
58°	1142.5	4621.2	16110.7	24239.7	33303.5	37925.9	37906.9	33198.6	25112.0	17234.2
60°	1017.4	4012.6	15553.4	24596.0	33067.9	37146.4	36968.8	32442.5	25046.1	17096.8
62.5°	799.6	3130.3	15005.1	24183.9	30541.7	33372.8	33446.5	28722.5	22832.6	16296.1
65°	636.6	2333.0	13861.5	21213.3	25149.9	27405.8	27680.6	23356.4	19057.9	13799.0
67.5°	507.0	1686.3	11627.9	16889.1	19901.0	22872.8	23072.7	19609.6	14765.0	10572.6
70°	412.1	1140.2	8026.3	12351.6	16414.5	19755.9	19768.2	16290.5	11020.4	6927.4
72.5°	365.2	789.6	4659.2	9008.0	13309.8	16098.4	15773.4	13219.3	8469.7	4103.1
75°	316.0	523.8	2284.9	5506.9	8069.9	8124.6	8248.5	6132.2	4233.7	1951.0
77.5°	260.2	371.9	900.1	1504.3	2420.1	3098.0	3213.0	2434.6	1408.3	480.2
80°	178.7	176.5	242.3	461.2	692.4	867.7	809.7	626.5	368.5	184.3
82.5°	77.1	83.8	109.4	131.8	107.2	103.9	99.4	63.7	49.1	38.0
85°	24.6	22.3	23.5	23.5	19.0	14.5	14.5	6.7	0.0	0.0
87.5°	12.3	10.1	10.1	8.9	5.6	2.2	1.1	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



REPORT NUMBER: P1049873

CATALOG NUMBER: GALN-SA5A-850-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
64.8	0°	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
60.3	2.5°	59.2	59.2	57.0	54.7	53.6	51.4	50.3	49.1	48.0	46.9
64.8	5°	62.5	61.4	58.1	54.7	51.4	48.0	45.8	43.6	41.3	40.2
71.5	7.5°	68.1	65.9	59.2	53.6	49.1	44.7	42.4	39.1	36.9	33.5
79.3	10°	74.8	70.4	61.4	54.7	48.0	42.4	39.1	35.7	32.4	27.9
90.5	12.5°	83.8	75.9	64.8	53.6	45.8	39.1	35.7	31.3	27.9	24.6
105.0	15°	91.6	81.5	65.9	53.6	43.6	35.7	31.3	26.8	23.5	19.0
131.8	17.5°	102.7	86.0	64.8	50.3	40.2	31.3	26.8	23.5	17.9	11.2
195.4	20°	121.7	89.3	62.5	46.9	34.6	25.7	20.1	15.6	7.8	2.2
293.7	22.5°	151.9	98.3	60.3	42.4	30.2	20.1	13.4	5.6	0.0	0.0
446.7	25°	210.0	113.9	60.3	40.2	26.8	14.5	4.5	0.0	0.0	0.0
634.3	27.5°	279.2	135.1	60.3	34.6	21.2	7.8	0.0	0.0	0.0	0.0
864.4	30°	349.6	158.6	60.3	30.2	16.8	1.1	0.0	0.0	0.0	0.0
1064.3	32.5°	416.6	178.7	61.4	25.7	11.2	0.0	0.0	0.0	0.0	0.0
1341.3	35°	484.7	182.0	60.3	22.3	6.7	0.0	0.0	0.0	0.0	0.0
1680.8	37.5°	571.8	175.3	57.0	20.1	3.4	0.0	0.0	0.0	0.0	0.0
2211.2	40°	703.6	178.7	53.6	19.0	1.1	0.0	0.0	0.0	0.0	0.0
3157.1	42.5°	947.0	193.2	49.1	19.0	0.0	0.0	0.0	0.0	0.0	0.0
5028.9	45°	1637.2	259.1	44.7	20.1	0.0	0.0	0.0	0.0	0.0	0.0
7549.4	47.5°	2708.2	465.7	43.6	20.1	0.0	0.0	0.0	0.0	0.0	0.0
9094.0	50°	3456.4	586.3	45.8	21.2	0.0	0.0	0.0	0.0	0.0	0.0
9287.2	52.5°	3450.9	653.3	48.0	22.3	4.5	0.0	0.0	0.0	0.0	0.0
8560.1	55°	3067.8	665.6	51.4	24.6	14.5	0.0	0.0	0.0	0.0	0.0
7356.2	57.5°	2564.1	607.5	59.2	30.2	26.8	0.0	0.0	0.0	0.0	0.0
7167.5	58°	2474.8	580.7	61.4	31.3	29.0	0.0	0.0	0.0	0.0	0.0
6217.1	60°	2028.1	473.5	78.2	39.1	39.1	0.0	0.0	0.0	0.0	0.0
5097.0	62.5°	1400.4	413.2	89.3	50.3	40.2	0.0	0.0	0.0	0.0	0.0
3758.0	65°	990.6	373.0	97.2	53.6	32.4	0.0	0.0	0.0	0.0	0.0
2670.2	67.5°	740.4	344.0	107.2	54.7	16.8	0.0	0.0	0.0	0.0	0.0
1675.2	70°	567.3	322.7	131.8	58.1	4.5	0.0	0.0	0.0	0.0	0.0
998.4	72.5°	462.3	298.2	159.7	60.3	0.0	0.0	0.0	0.0	0.0	0.0
598.6	75°	383.1	269.1	154.1	65.9	0.0	0.0	0.0	0.0	0.0	0.0
319.4	77.5°	254.6	208.8	140.7	65.9	0.0	0.0	0.0	0.0	0.0	0.0
113.9	80°	89.3	82.6	109.4	58.1	0.0	0.0	0.0	0.0	0.0	0.0
23.5	82.5°	13.4	11.2	15.6	20.1	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1049873

CATALOG NUMBER: GALN-SA5A-850-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
64.8	0°	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
45.8	2.5°	45.8	45.8	44.7	45.8	45.8	48.0	53.6	61.4	70.4	73.7
39.1	5°	38.0	36.9	35.7	35.7	35.7	39.1	43.6	52.5	62.5	67.0
32.4	7.5°	31.3	30.2	29.0	27.9	27.9	30.2	35.7	45.8	55.8	60.3
26.8	10°	25.7	23.5	22.3	21.2	21.2	23.5	29.0	39.1	50.3	54.7
22.3	12.5°	21.2	17.9	15.6	14.5	13.4	16.8	22.3	31.3	43.6	49.1
16.8	15°	14.5	11.2	7.8	6.7	5.6	8.9	14.5	24.6	36.9	43.6
8.9	17.5°	7.8	3.4	1.1	0.0	0.0	2.2	6.7	17.9	30.2	35.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	22.3	27.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	13.4	19.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	10.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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	3.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1049873

CATALOG NUMBER: GALN-SA5A-850-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
64.8	0°	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
77.1	2.5°	79.3	78.2	75.9	73.7	73.7	73.7	77.1	80.4	83.8	83.8
69.2	5°	73.7	73.7	72.6	70.4	70.4	71.5	75.9	81.5	86.0	87.1
63.7	7.5°	68.1	70.4	68.1	67.0	68.1	69.2	73.7	80.4	87.1	89.3
59.2	10°	64.8	65.9	65.9	64.8	64.8	67.0	71.5	80.4	89.3	92.7
53.6	12.5°	60.3	62.5	61.4	61.4	61.4	63.7	69.2	79.3	91.6	96.0
48.0	15°	55.8	59.2	59.2	58.1	58.1	59.2	67.0	78.2	94.9	102.7
41.3	17.5°	51.4	54.7	55.8	53.6	53.6	55.8	63.7	78.2	97.2	110.6
33.5	20°	42.4	48.0	51.4	48.0	48.0	50.3	58.1	73.7	98.3	118.4
24.6	22.5°	33.5	39.1	43.6	42.4	42.4	43.6	53.6	70.4	99.4	131.8
14.5	25°	24.6	30.2	33.5	35.7	35.7	39.1	49.1	68.1	103.9	159.7
6.7	27.5°	14.5	21.2	25.7	27.9	29.0	33.5	45.8	65.9	111.7	199.9
0.0	30°	6.7	12.3	17.9	22.3	22.3	30.2	42.4	63.7	121.7	258.0
0.0	32.5°	0.0	5.6	8.9	15.6	16.8	24.6	39.1	61.4	136.2	313.8
0.0	35°	0.0	0.0	4.5	12.3	12.3	20.1	35.7	59.2	158.6	356.3
0.0	37.5°	0.0	0.0	0.0	8.9	10.1	17.9	34.6	58.1	163.1	359.6
0.0	40°	0.0	0.0	0.0	6.7	7.8	16.8	34.6	59.2	147.4	351.8
0.0	42.5°	0.0	0.0	0.0	4.5	5.6	16.8	34.6	61.4	132.9	360.7
0.0	45°	0.0	0.0	0.0	3.4	4.5	17.9	33.5	60.3	125.1	407.6
0.0	47.5°	0.0	0.0	0.0	4.5	6.7	17.9	32.4	59.2	126.2	562.9
0.0	50°	0.0	0.0	0.0	5.6	7.8	17.9	33.5	57.0	138.5	865.5
0.0	52.5°	0.0	0.0	0.0	4.5	6.7	20.1	36.9	55.8	150.8	1125.7
0.0	55°	0.0	0.0	0.0	1.1	3.4	25.7	40.2	55.8	169.8	1190.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	29.0	45.8	59.2	201.0	1164.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	29.0	46.9	59.2	203.3	1142.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	29.0	51.4	65.9	218.9	1017.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	24.6	61.4	82.6	227.8	799.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	20.1	72.6	90.5	234.5	636.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	19.0	74.8	91.6	237.9	507.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	20.1	73.7	98.3	249.0	412.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	22.3	67.0	108.3	249.0	365.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	23.5	62.5	121.7	226.7	316.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	22.3	61.4	141.8	202.1	260.2
0.0	80°	2.2	3.4	3.4	2.2	2.2	19.0	60.3	144.1	172.0	178.7
1.1	82.5°	6.7	8.9	7.8	5.6	5.6	16.8	53.6	120.6	89.3	77.1
6.7	85°	12.3	14.5	14.5	12.3	12.3	15.6	33.5	43.6	30.2	24.6
12.3	87.5°	16.8	19.0	19.0	16.8	16.8	15.6	14.5	13.4	12.3	12.3
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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

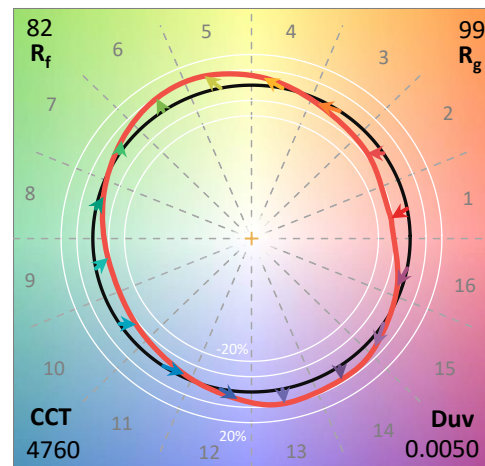
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-12
 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-850-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4760
 CIE u' : 0.2107
 CIE v' : 0.4939
 Duv: 0.0050
 CIE x: 0.3537
 CIE y: 0.3685
 CIE z: 0.2779
 Peak Wavelength (nm): 443
 Dominant Wavelength (nm): 571
 Purity: 16.69598
 R_f: 82
 R_g: 99.4

CRI (Ra): 81.1
 R1: 79.8
 R2: 83.5
 R3: 87.9
 R4: 83.1
 R5: 80.5
 R6: 79.1
 R7: 86.1
 R8: 69.0
 R9: 8.7
 R10: 62.4
 R11: 83.8
 R12: 63.0
 R13: 79.9
 R14: 93.3
 R15: 72.7



Test Conditions

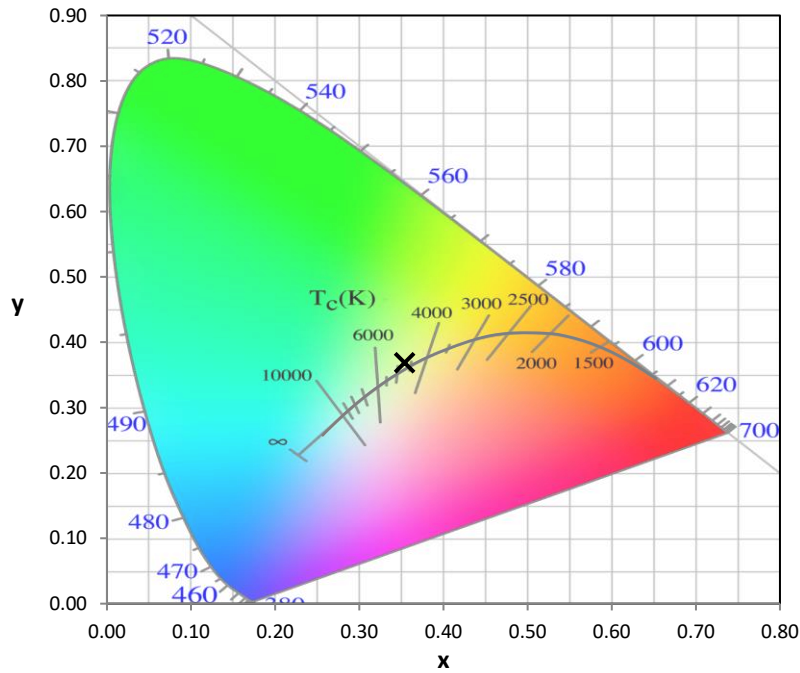
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

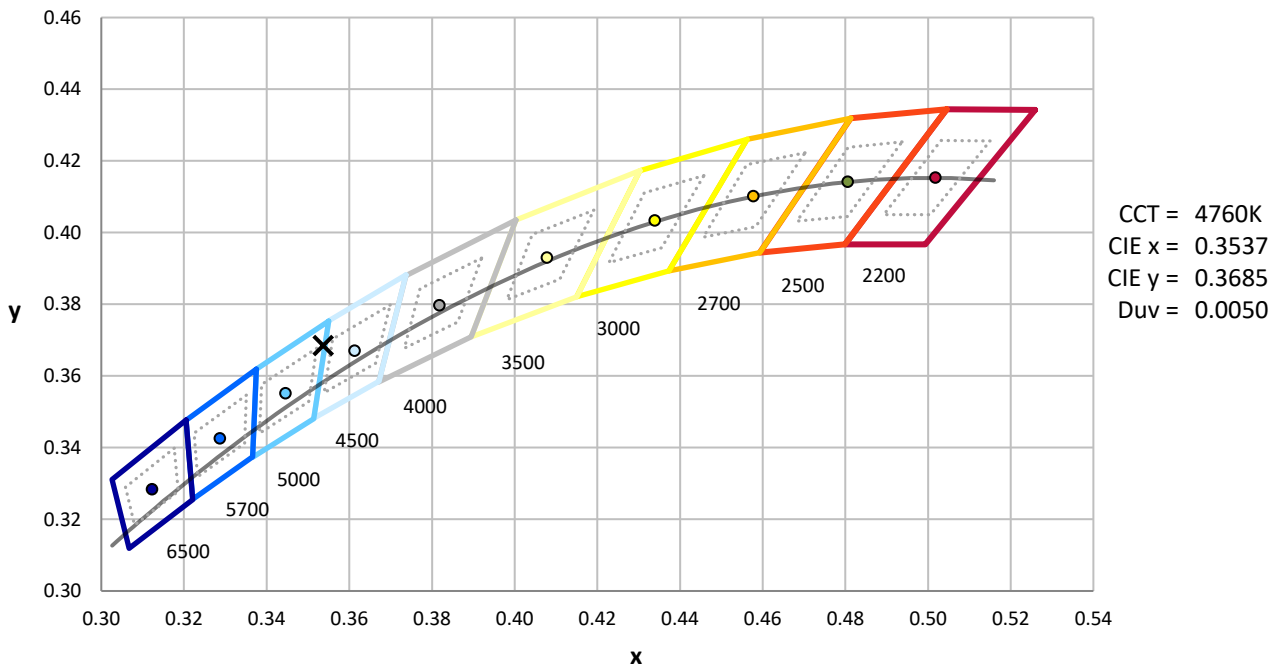
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-12

CIE 1931 Chromaticity Diagram



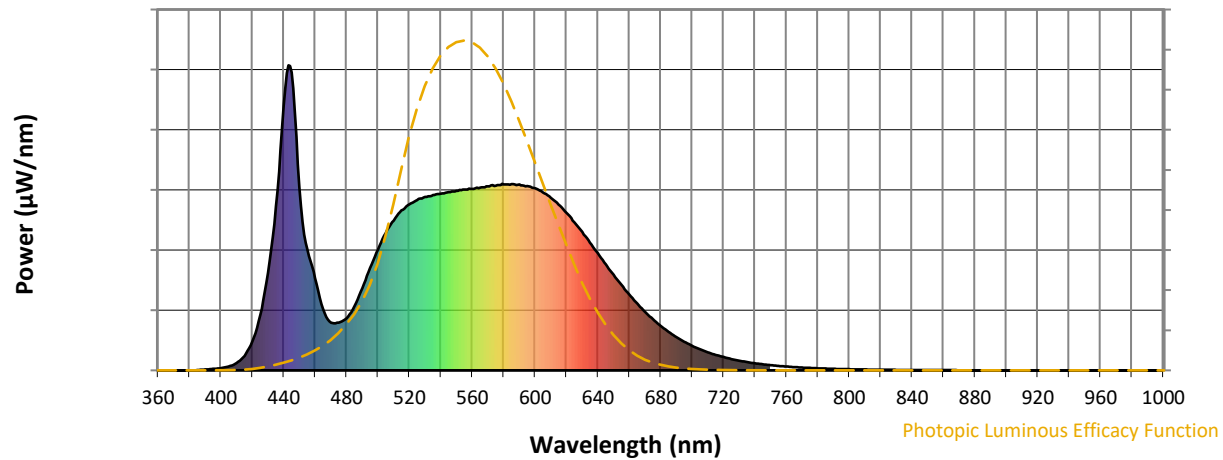
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

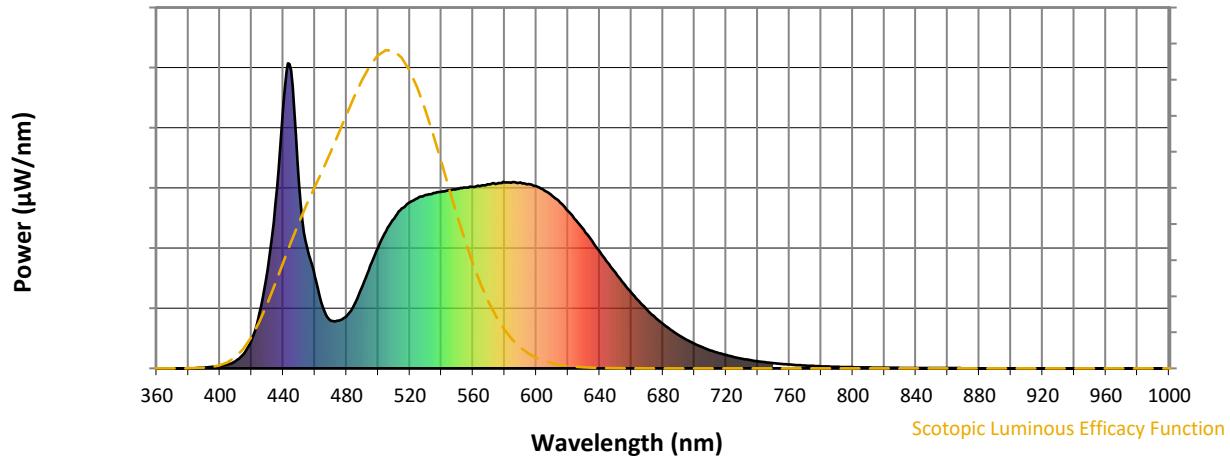


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength



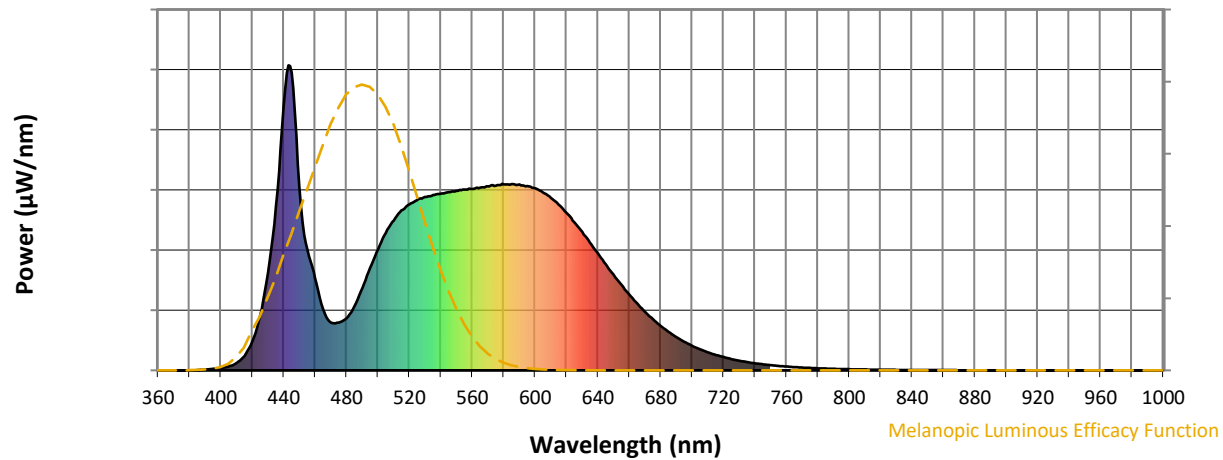
Scotopic Lumens: NR

S/P: 1.83

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

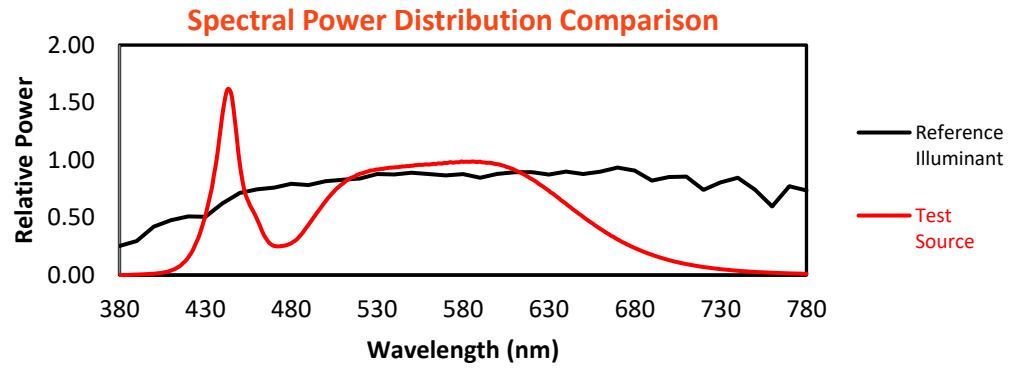
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

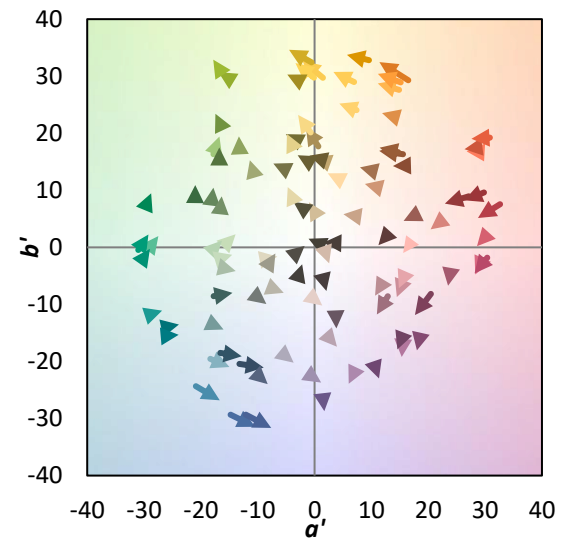
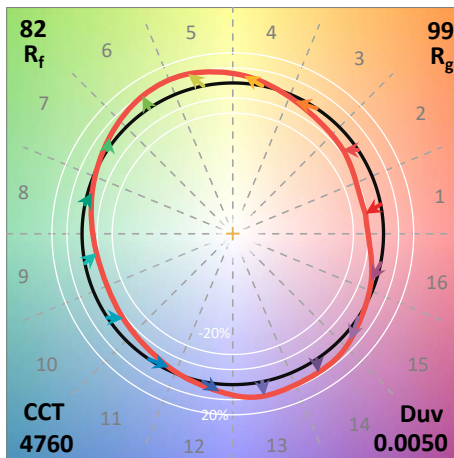
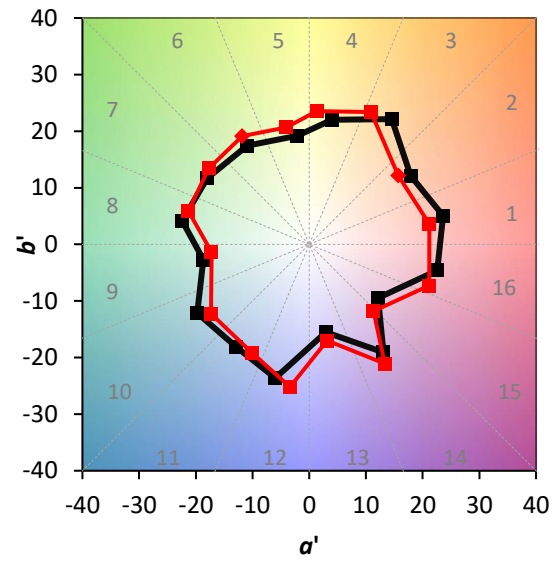
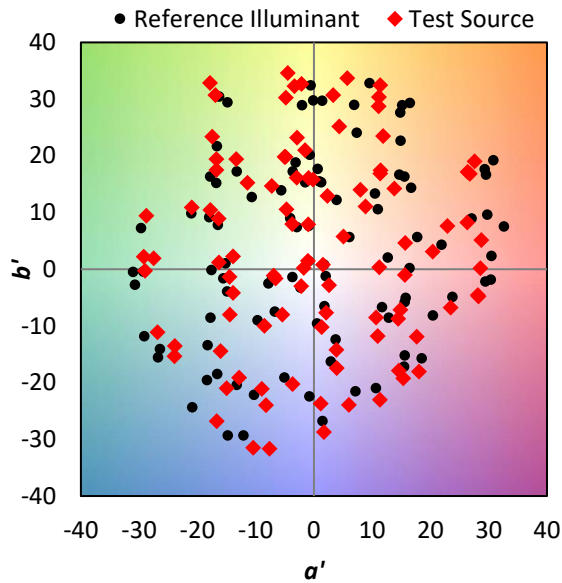
TM-30-18

Summary

$R_f = 82$
 $R_g = 99.4$
 $\text{CIE } R_a = 81.1$
 $R_9 = 8.7$

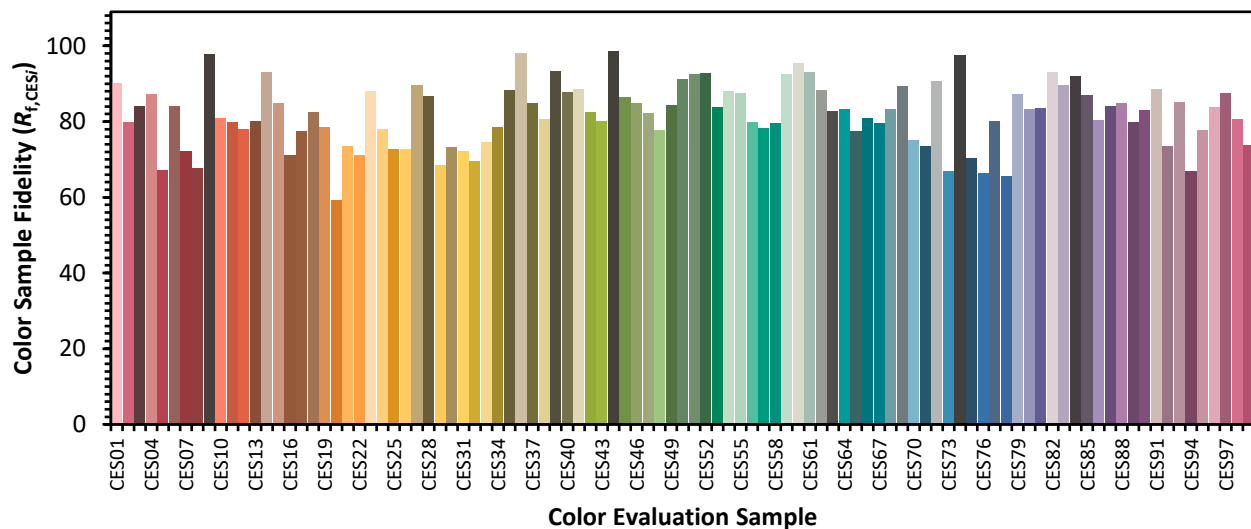


Color Vector Graphics

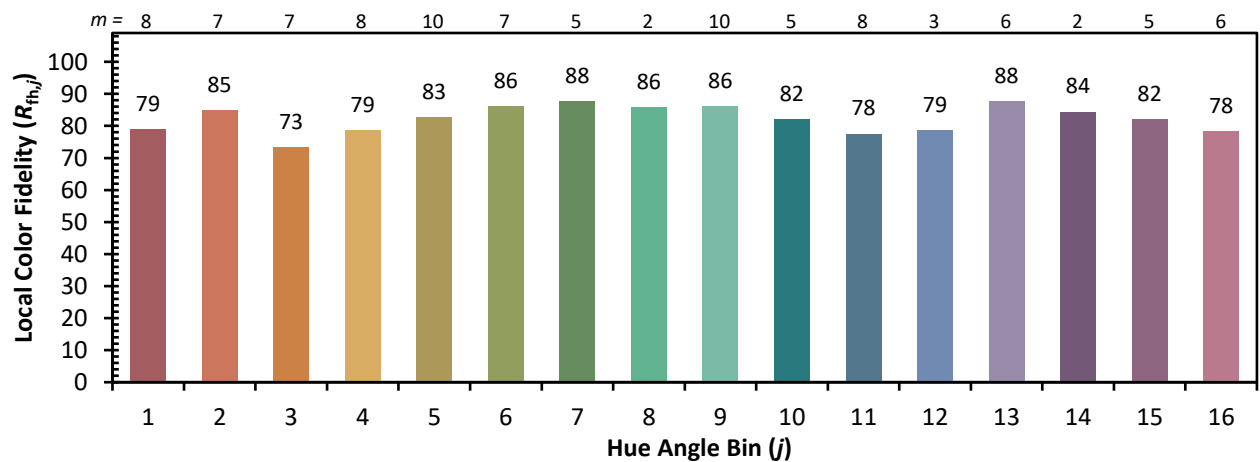
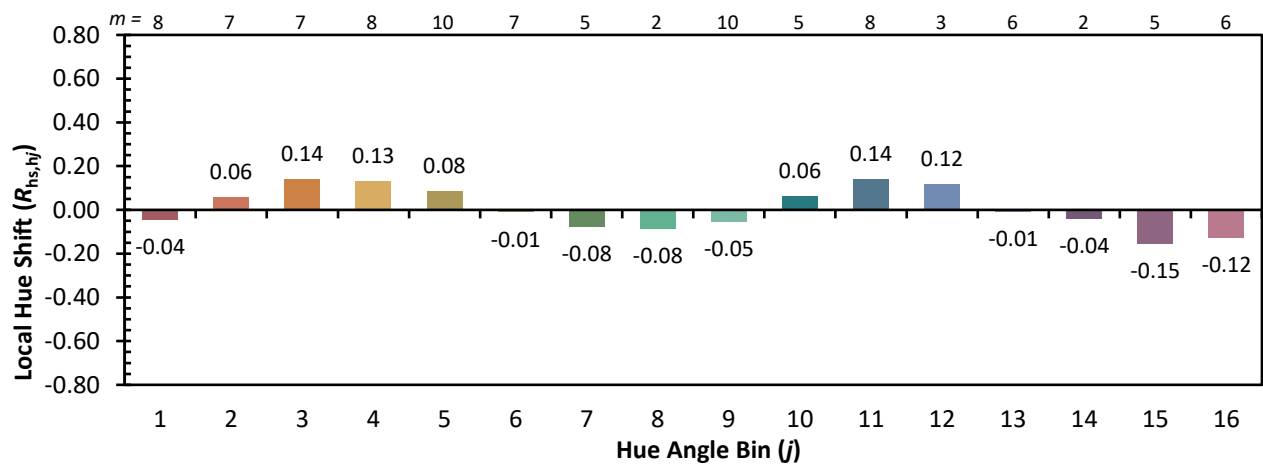
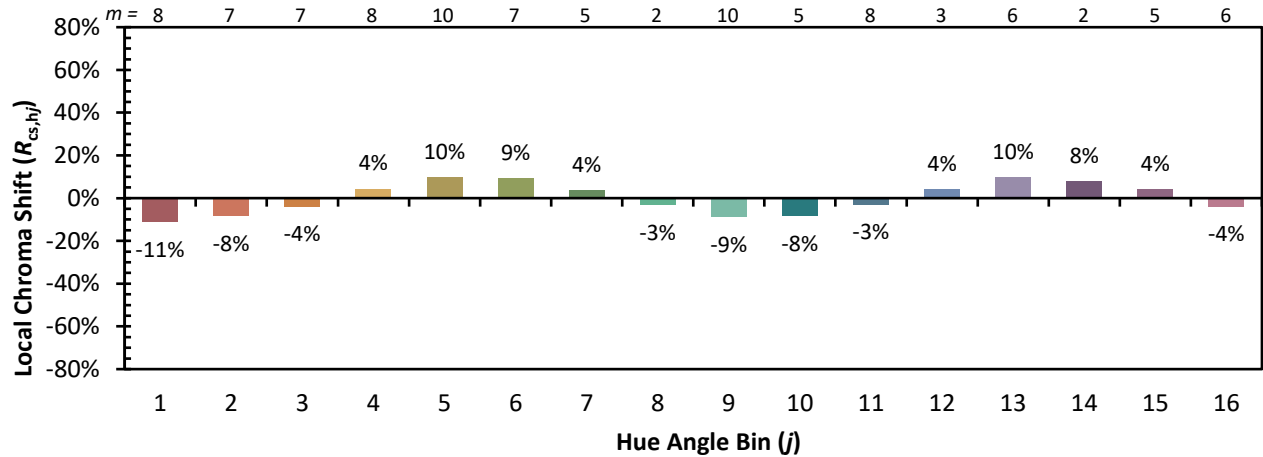


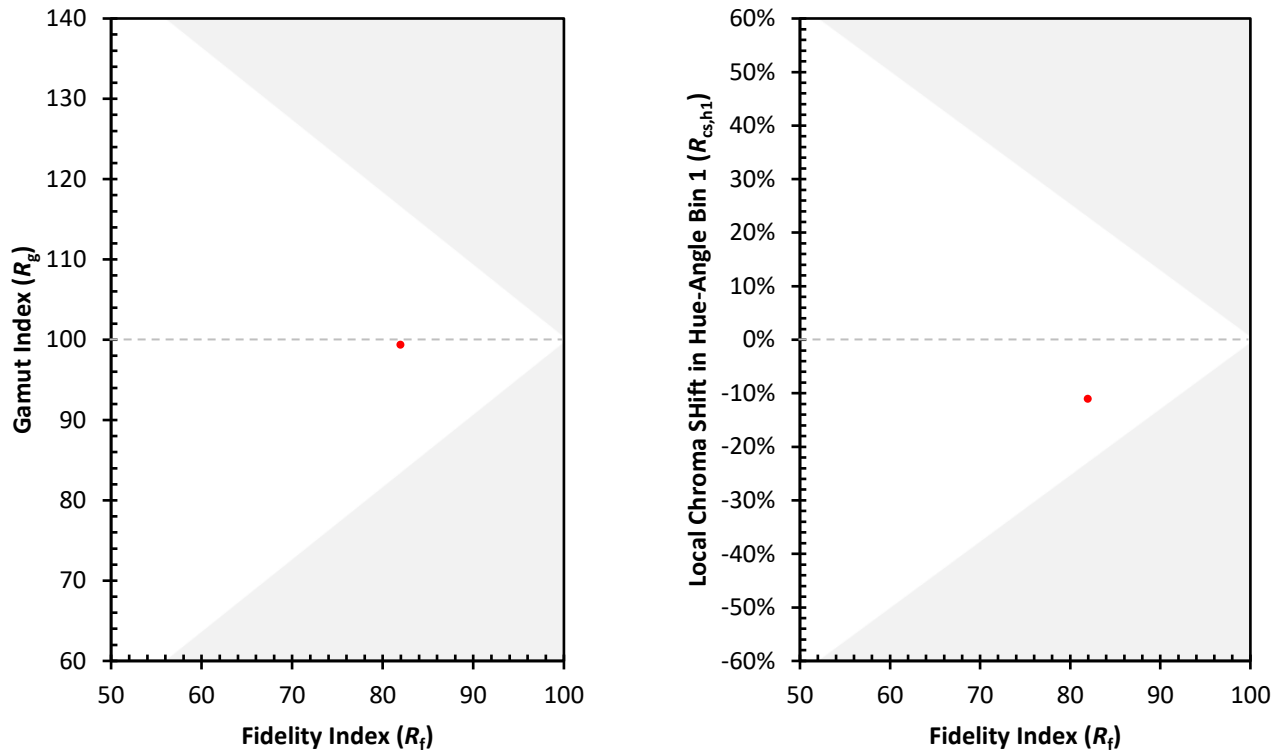
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
CES23 = 91	CES48 = 78	CES73 = 67	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
CES25 = 71	CES50 = 91	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)