

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: P1049794

Luminaire Tested: **GALN-SA3B-835-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049794
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11525 lumens
Efficiency: N/A
Efficacy: 108.5 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

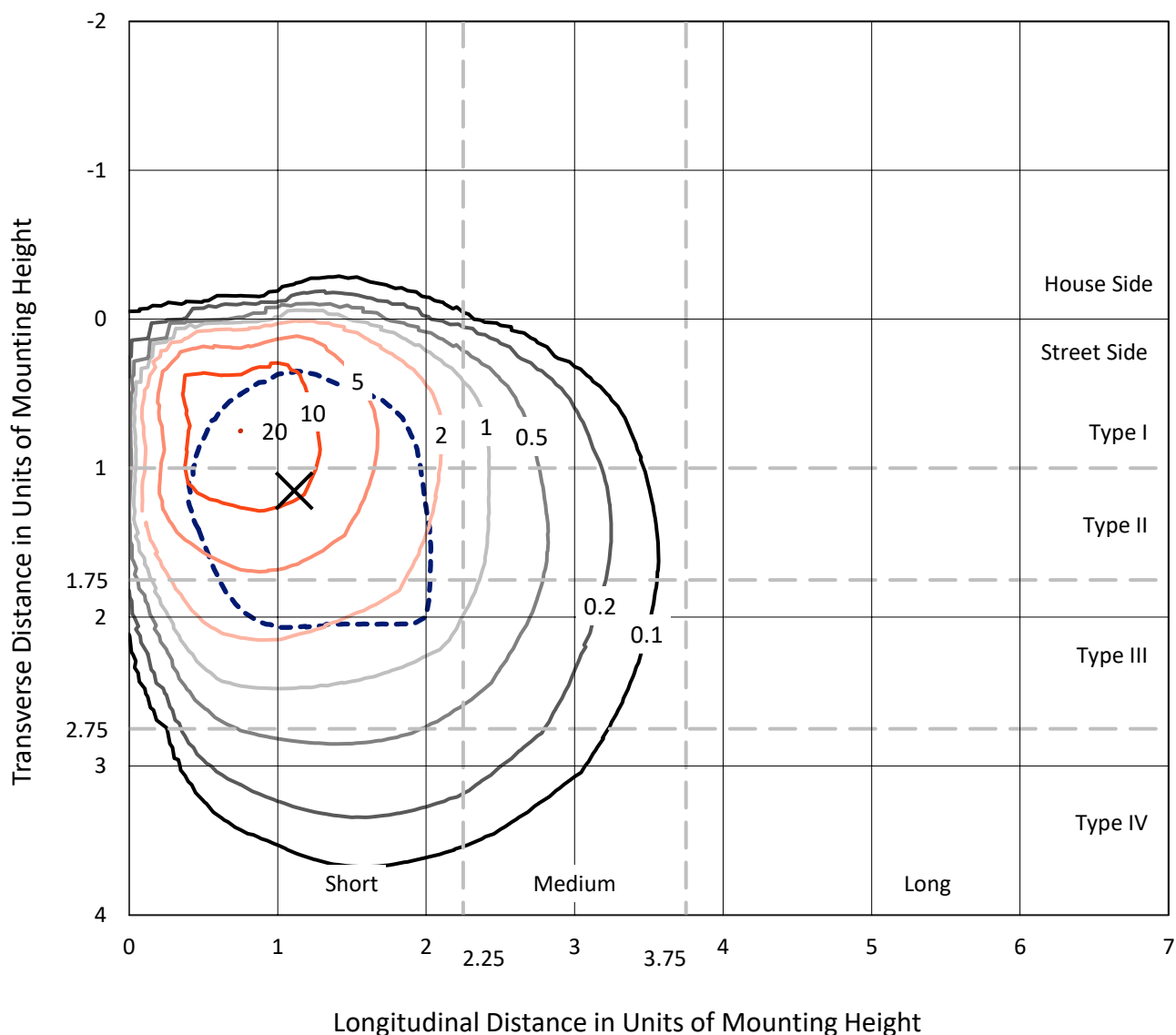
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



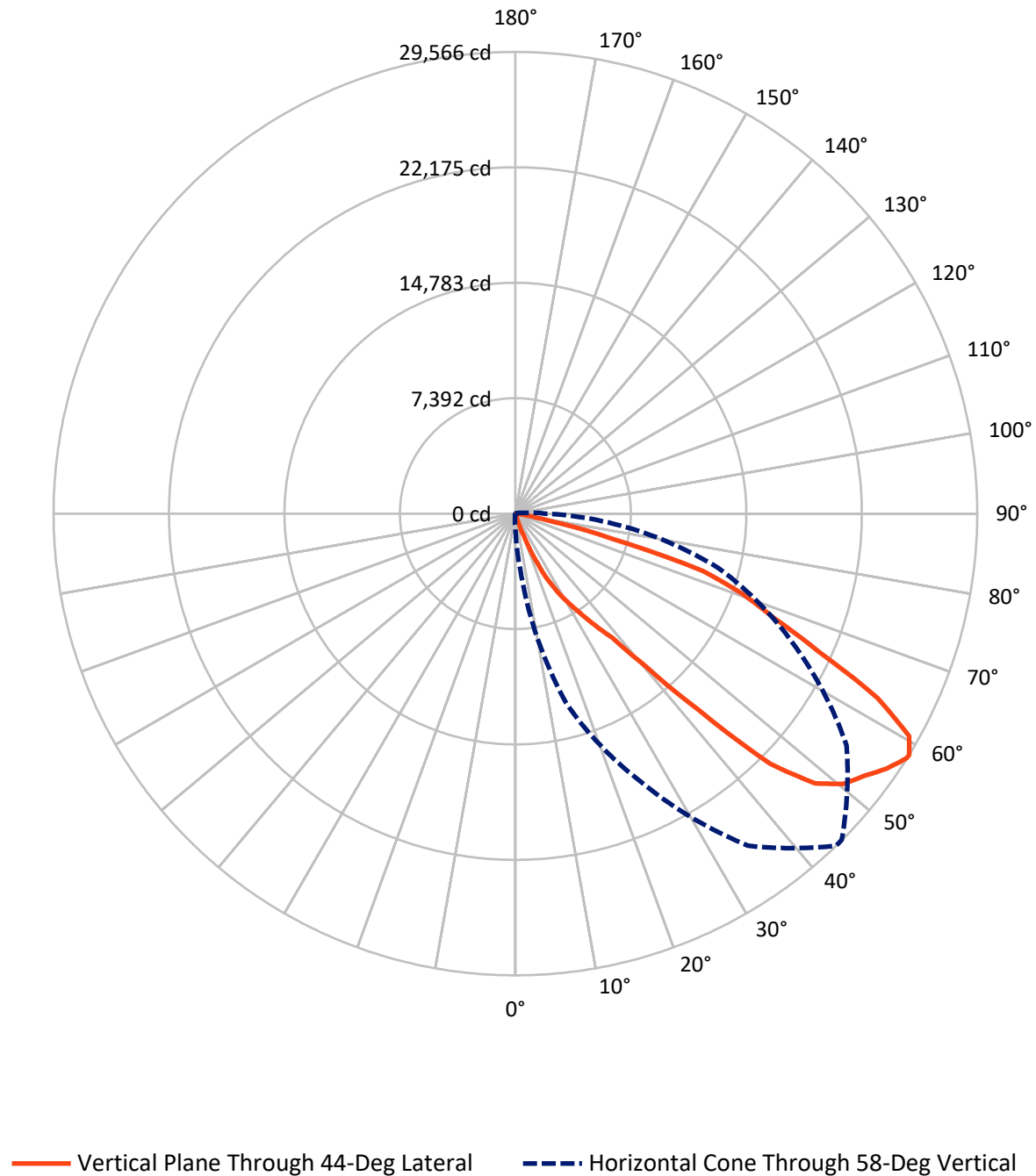
Based on 20 foot mounting height. Maximum calculated value = 20.1 fc

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	78.7	0.0	78.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	11446.3	0.0	11446.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	11525.0	0.0	11525.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.0
10°-20°	25.3	0.2
20°-30°	273.0	2.4
30°-40°	807.4	7.0
40°-50°	2406.6	20.9
50°-60°	3818.7	33.1
60°-70°	3185.3	27.6
70°-80°	982.4	8.5
80°-90°	21.8	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°	11525.0	100.0
0°-180°	11525.0	100.0



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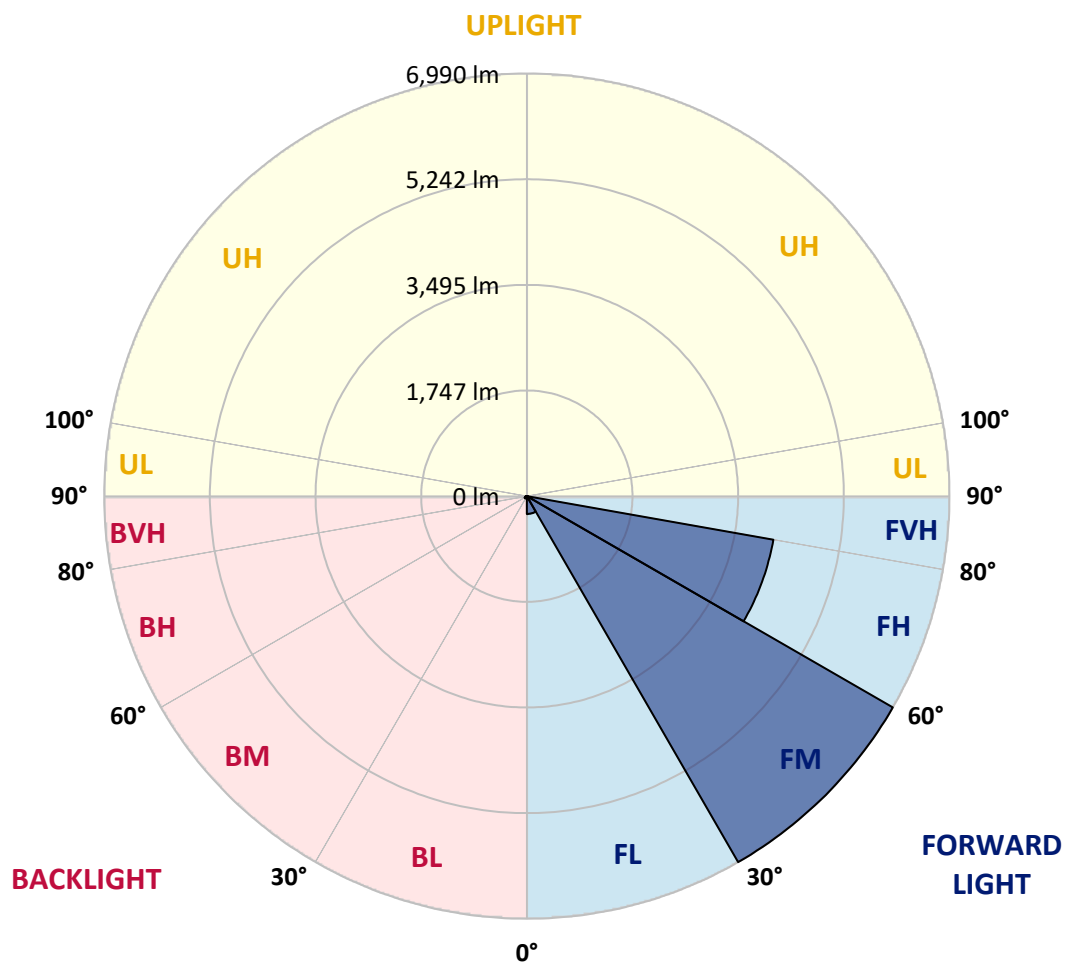
CATALOG NUMBER: GALN-SA3B-835-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	295.1	2.6			
FM	(30°-60°)	6989.7	60.6			
FH	(60°-80°)	4140.8	35.9			G2/5000
FVH	(80°-90°)	20.8	0.2			G1/100
BL	(0°-30°)	7.7	0.1	B0/110		
BM	(30°-60°)	43.1	0.4	B0/220		
BH	(60°-80°)	26.9	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
2.5°	65.3	65.3	62.7	59.2	55.7	52.2	51.4	49.6	48.8	47.9
5°	67.9	67.9	67.0	64.4	60.9	58.3	58.3	55.7	54.0	52.2
7.5°	69.6	70.5	72.3	71.4	69.6	67.0	67.0	65.3	62.7	58.3
10°	72.3	74.9	78.4	80.1	81.0	81.0	80.1	79.2	74.9	68.8
12.5°	74.9	80.1	88.8	97.5	102.7	109.7	108.8	107.1	95.8	82.7
15°	80.1	87.9	106.2	131.5	170.6	195.0	204.6	195.9	158.5	111.4
17.5°	86.2	99.3	154.1	275.1	451.0	534.6	585.1	544.1	360.4	211.6
20°	92.3	121.0	286.4	713.0	1170.1	1443.5	1519.2	1400.8	899.3	403.1
22.5°	102.7	169.8	580.7	1474.0	2521.3	2931.4	3008.9	2630.1	1698.6	795.7
25°	124.5	246.4	1001.2	2402.0	3762.8	4455.0	4422.7	3926.5	2755.5	1271.1
27.5°	155.8	358.7	1514.0	3412.8	4952.1	5562.4	5635.5	5021.7	3673.1	1869.2
30°	201.1	497.1	2064.2	4222.5	5905.4	6565.3	6577.5	5942.8	4494.1	2394.2
32.5°	244.6	627.7	2545.7	5005.2	6844.8	7568.3	7622.3	6841.3	5107.0	2940.9
35°	277.7	713.0	3033.2	5693.0	7792.0	8788.9	8785.4	7858.2	5833.1	3429.4
37.5°	280.3	798.4	3474.6	6396.4	8991.7	10107.9	10218.5	9196.3	6710.7	4033.6
40°	274.2	894.1	4033.6	7493.4	11153.5	12866.0	12963.5	11675.0	8471.1	5067.9
42.5°	281.2	1060.4	4940.8	9519.3	14743.1	17202.6	17390.6	16035.9	11707.2	7178.3
45°	317.8	1373.0	6841.3	12908.7	19859.7	22858.1	22795.4	20844.4	15472.6	10390.8
47.5°	438.8	2138.2	9658.6	16207.4	23129.7	25799.9	25853.9	23469.3	17670.1	12860.8
50°	674.7	3271.8	12025.9	17951.3	24535.8	27214.7	27164.2	24408.7	18505.0	14077.0
52.5°	877.6	4091.9	13213.4	18563.3	24716.0	27913.8	27910.3	24655.9	18634.7	14181.5
55°	928.1	4153.7	13223.0	18596.4	25120.0	28828.8	28943.7	25264.5	18802.8	13725.3
57.5°	908.1	3677.5	12671.0	18788.0	25839.1	29536.6	29542.7	25853.9	19229.4	13445.8
58°	890.6	3602.6	12559.5	18896.8	25962.7	29566.2	29551.4	25880.9	19576.7	13435.4
60°	793.1	3128.1	12125.1	19174.5	25779.0	28958.5	28820.1	25291.5	19525.4	13328.3
62.5°	623.4	2440.3	11697.6	18853.2	23809.7	26016.7	26074.2	22391.4	17799.8	12704.1
65°	496.3	1818.7	10806.1	16537.4	19606.3	21365.0	21579.2	18208.1	14857.1	10757.4
67.5°	395.3	1314.6	9064.9	13166.4	15514.4	17831.1	17987.0	15287.2	11510.4	8242.1
70°	321.3	888.9	6257.1	9629.0	12796.4	15401.2	15410.8	12699.7	8591.3	5400.4
72.5°	284.7	615.5	3632.2	7022.4	10376.0	12550.0	12296.6	10305.5	6602.8	3198.7
75°	246.4	408.3	1781.3	4293.0	6291.1	6333.8	6430.4	4780.6	3300.5	1521.0
77.5°	202.9	289.9	701.7	1172.7	1886.6	2415.1	2504.8	1897.9	1097.9	374.4
80°	139.3	137.6	188.9	359.6	539.8	676.5	631.2	488.4	287.3	143.7
82.5°	60.1	65.3	85.3	102.7	83.6	81.0	77.5	49.6	38.3	29.6
85°	19.2	17.4	18.3	18.3	14.8	11.3	11.3	5.2	0.0	0.0
87.5°	9.6	7.8	7.8	7.0	4.4	1.7	0.9	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°
50.5	0°	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
47.0	2.5°	46.1	46.1	44.4	42.7	41.8	40.0	39.2	38.3	37.4	36.6
50.5	5°	48.8	47.9	45.3	42.7	40.0	37.4	35.7	34.0	32.2	31.3
55.7	7.5°	53.1	51.4	46.1	41.8	38.3	34.8	33.1	30.5	28.7	26.1
61.8	10°	58.3	54.8	47.9	42.7	37.4	33.1	30.5	27.9	25.2	21.8
70.5	12.5°	65.3	59.2	50.5	41.8	35.7	30.5	27.9	24.4	21.8	19.2
81.8	15°	71.4	63.6	51.4	41.8	34.0	27.9	24.4	20.9	18.3	14.8
102.7	17.5°	80.1	67.0	50.5	39.2	31.3	24.4	20.9	18.3	13.9	8.7
152.4	20°	94.9	69.6	48.8	36.6	27.0	20.0	15.7	12.2	6.1	1.7
229.0	22.5°	118.4	76.6	47.0	33.1	23.5	15.7	10.4	4.4	0.0	0.0
348.2	25°	163.7	88.8	47.0	31.3	20.9	11.3	3.5	0.0	0.0	0.0
494.5	27.5°	217.7	105.3	47.0	27.0	16.5	6.1	0.0	0.0	0.0	0.0
673.9	30°	272.5	123.6	47.0	23.5	13.1	0.9	0.0	0.0	0.0	0.0
829.7	32.5°	324.7	139.3	47.9	20.0	8.7	0.0	0.0	0.0	0.0	0.0
1045.6	35°	377.8	141.9	47.0	17.4	5.2	0.0	0.0	0.0	0.0	0.0
1310.3	37.5°	445.8	136.7	44.4	15.7	2.6	0.0	0.0	0.0	0.0	0.0
1723.8	40°	548.5	139.3	41.8	14.8	0.9	0.0	0.0	0.0	0.0	0.0
2461.2	42.5°	738.3	150.6	38.3	14.8	0.0	0.0	0.0	0.0	0.0	0.0
3920.4	45°	1276.3	202.0	34.8	15.7	0.0	0.0	0.0	0.0	0.0	0.0
5885.4	47.5°	2111.3	363.0	34.0	15.7	0.0	0.0	0.0	0.0	0.0	0.0
7089.4	50°	2694.6	457.1	35.7	16.5	0.0	0.0	0.0	0.0	0.0	0.0
7240.1	52.5°	2690.2	509.3	37.4	17.4	3.5	0.0	0.0	0.0	0.0	0.0
6673.3	55°	2391.6	518.9	40.0	19.2	11.3	0.0	0.0	0.0	0.0	0.0
5734.8	57.5°	1998.9	473.6	46.1	23.5	20.9	0.0	0.0	0.0	0.0	0.0
5587.6	58°	1929.3	452.7	47.9	24.4	22.6	0.0	0.0	0.0	0.0	0.0
4846.7	60°	1581.0	369.1	60.9	30.5	30.5	0.0	0.0	0.0	0.0	0.0
3973.5	62.5°	1091.8	322.1	69.6	39.2	31.3	0.0	0.0	0.0	0.0	0.0
2929.6	65°	772.2	290.8	75.7	41.8	25.2	0.0	0.0	0.0	0.0	0.0
2081.6	67.5°	577.2	268.2	83.6	42.7	13.1	0.0	0.0	0.0	0.0	0.0
1305.9	70°	442.3	251.6	102.7	45.3	3.5	0.0	0.0	0.0	0.0	0.0
778.3	72.5°	360.4	232.5	124.5	47.0	0.0	0.0	0.0	0.0	0.0	0.0
466.7	75°	298.6	209.8	120.1	51.4	0.0	0.0	0.0	0.0	0.0	0.0
249.0	77.5°	198.5	162.8	109.7	51.4	0.0	0.0	0.0	0.0	0.0	0.0
88.8	80°	69.6	64.4	85.3	45.3	0.0	0.0	0.0	0.0	0.0	0.0
18.3	82.5°	10.4	8.7	12.2	15.7	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°
50.5	0°	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
35.7	2.5°	35.7	35.7	34.8	35.7	35.7	37.4	41.8	47.9	54.8	57.5
30.5	5°	29.6	28.7	27.9	27.9	27.9	30.5	34.0	40.9	48.8	52.2
25.2	7.5°	24.4	23.5	22.6	21.8	21.8	23.5	27.9	35.7	43.5	47.0
20.9	10°	20.0	18.3	17.4	16.5	16.5	18.3	22.6	30.5	39.2	42.7
17.4	12.5°	16.5	13.9	12.2	11.3	10.4	13.1	17.4	24.4	34.0	38.3
13.1	15°	11.3	8.7	6.1	5.2	4.4	7.0	11.3	19.2	28.7	34.0
7.0	17.5°	6.1	2.6	0.9	0.0	0.0	1.7	5.2	13.9	23.5	27.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	17.4	21.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	10.4	14.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	7.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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	2.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0
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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
50.5	0°	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
60.1	2.5°	61.8	60.9	59.2	57.5	57.5	57.5	60.1	62.7	65.3	65.3
54.0	5°	57.5	57.5	56.6	54.8	54.8	55.7	59.2	63.6	67.0	67.9
49.6	7.5°	53.1	54.8	53.1	52.2	53.1	54.0	57.5	62.7	67.9	69.6
46.1	10°	50.5	51.4	51.4	50.5	50.5	52.2	55.7	62.7	69.6	72.3
41.8	12.5°	47.0	48.8	47.9	47.9	47.9	49.6	54.0	61.8	71.4	74.9
37.4	15°	43.5	46.1	46.1	45.3	45.3	46.1	52.2	60.9	74.0	80.1
32.2	17.5°	40.0	42.7	43.5	41.8	41.8	43.5	49.6	60.9	75.7	86.2
26.1	20°	33.1	37.4	40.0	37.4	37.4	39.2	45.3	57.5	76.6	92.3
19.2	22.5°	26.1	30.5	34.0	33.1	33.1	34.0	41.8	54.8	77.5	102.7
11.3	25°	19.2	23.5	26.1	27.9	27.9	30.5	38.3	53.1	81.0	124.5
5.2	27.5°	11.3	16.5	20.0	21.8	22.6	26.1	35.7	51.4	87.1	155.8
0.0	30°	5.2	9.6	13.9	17.4	17.4	23.5	33.1	49.6	94.9	201.1
0.0	32.5°	0.0	4.4	7.0	12.2	13.1	19.2	30.5	47.9	106.2	244.6
0.0	35°	0.0	0.0	3.5	9.6	9.6	15.7	27.9	46.1	123.6	277.7
0.0	37.5°	0.0	0.0	0.0	7.0	7.8	13.9	27.0	45.3	127.1	280.3
0.0	40°	0.0	0.0	0.0	5.2	6.1	13.1	27.0	46.1	114.9	274.2
0.0	42.5°	0.0	0.0	0.0	3.5	4.4	13.1	27.0	47.9	103.6	281.2
0.0	45°	0.0	0.0	0.0	2.6	3.5	13.9	26.1	47.0	97.5	317.8
0.0	47.5°	0.0	0.0	0.0	3.5	5.2	13.9	25.2	46.1	98.4	438.8
0.0	50°	0.0	0.0	0.0	4.4	6.1	13.9	26.1	44.4	108.0	674.7
0.0	52.5°	0.0	0.0	0.0	3.5	5.2	15.7	28.7	43.5	117.5	877.6
0.0	55°	0.0	0.0	0.0	0.9	2.6	20.0	31.3	43.5	132.3	928.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	22.6	35.7	46.1	156.7	908.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	22.6	36.6	46.1	158.5	890.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	22.6	40.0	51.4	170.6	793.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	19.2	47.9	64.4	177.6	623.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	15.7	56.6	70.5	182.8	496.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	14.8	58.3	71.4	185.4	395.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	15.7	57.5	76.6	194.1	321.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	17.4	52.2	84.5	194.1	284.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	18.3	48.8	94.9	176.7	246.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	17.4	47.9	110.6	157.6	202.9
0.0	80°	1.7	2.6	2.6	1.7	1.7	14.8	47.0	112.3	134.1	139.3
0.9	82.5°	5.2	7.0	6.1	4.4	4.4	13.1	41.8	94.0	69.6	60.1
5.2	85°	9.6	11.3	11.3	9.6	9.6	12.2	26.1	34.0	23.5	19.2
9.6	87.5°	13.1	14.8	14.8	13.1	13.1	12.2	11.3	10.4	9.6	9.6
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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

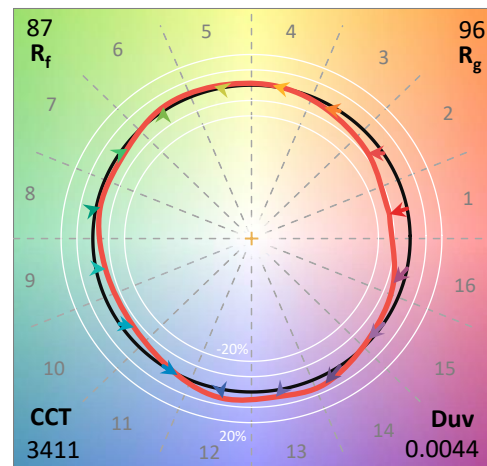
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u' : 0.2360
 CIE v' : 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 R_f: 86.6
 R_g: 95.9

CRI (Ra): 83.5
 R1: 81.1
 R2: 88.9
 R3: 97.2
 R4: 83.8
 R5: 81.7
 R6: 86.9
 R7: 86.1
 R8: 62.2
 R9: 6.3
 R10: 75.4
 R11: 84.1
 R12: 69.7
 R13: 82.8
 R14: 98.5
 R15: 72.6



Test Conditions

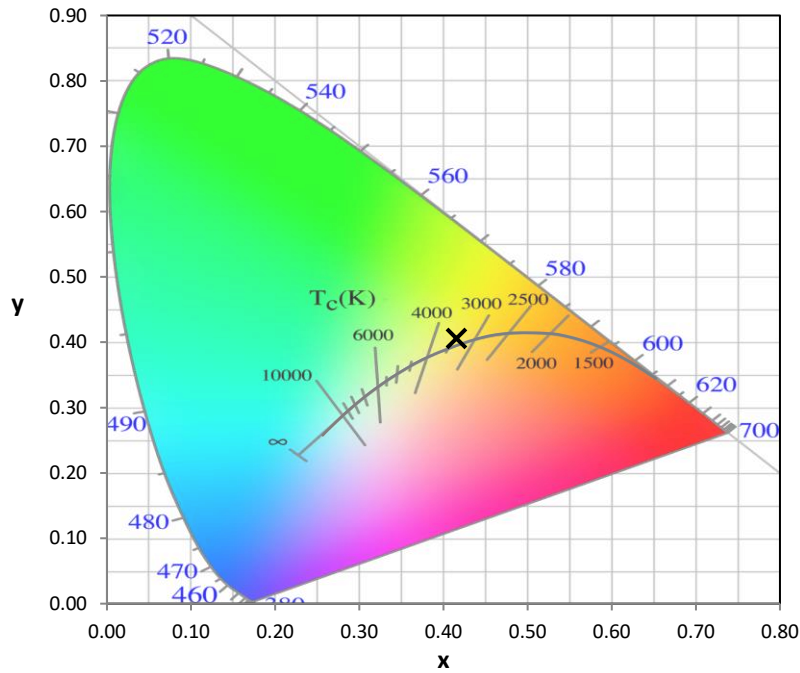
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

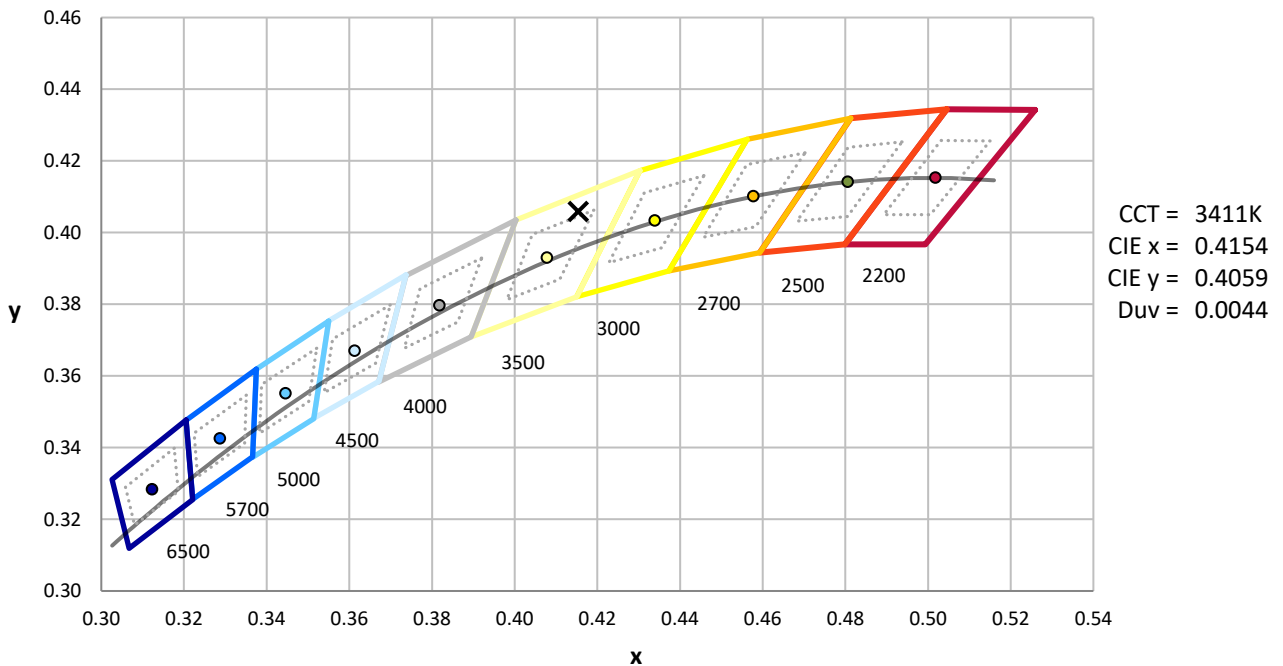
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram

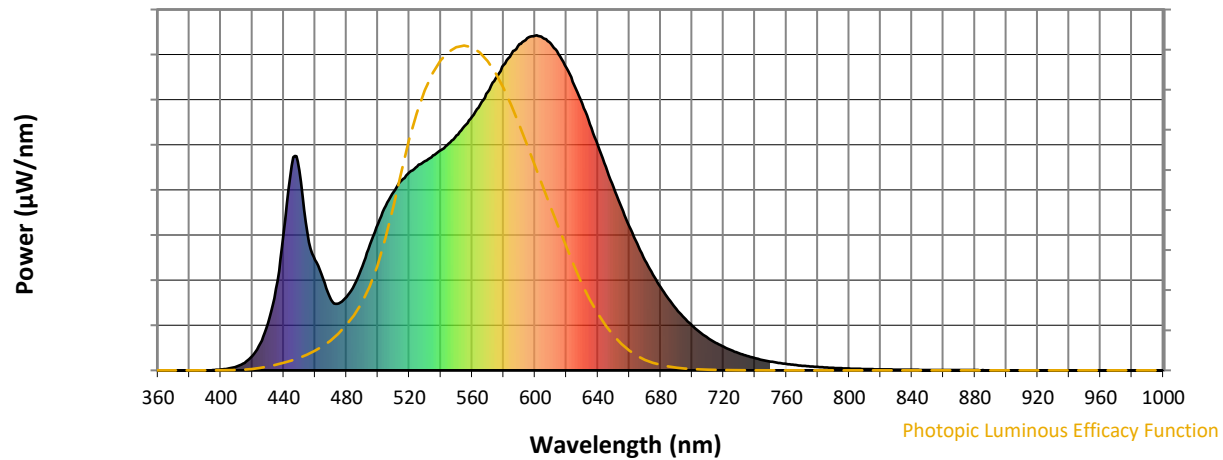


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 7-step quadrangle

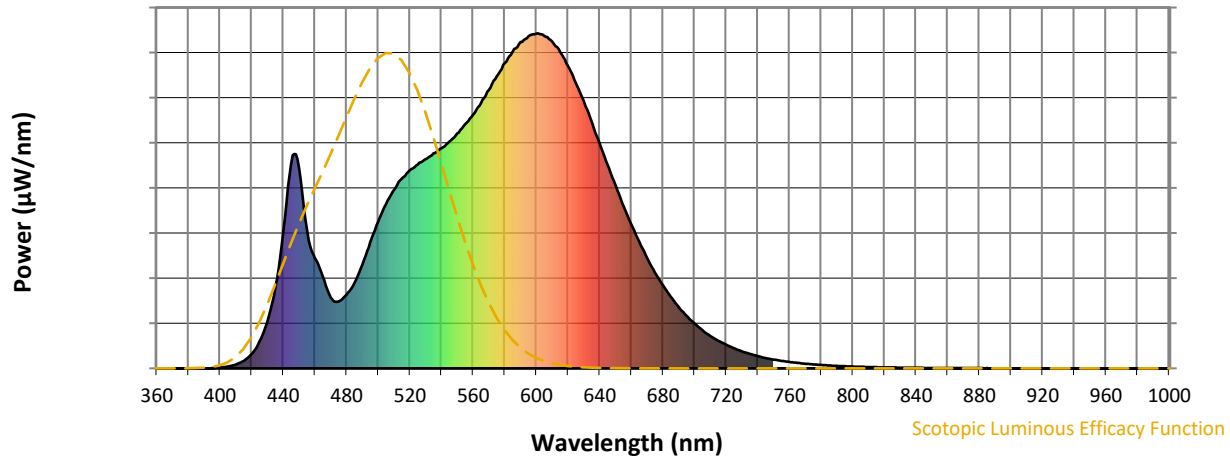
REPORT NUMBER: SP1-2407-184-10

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength



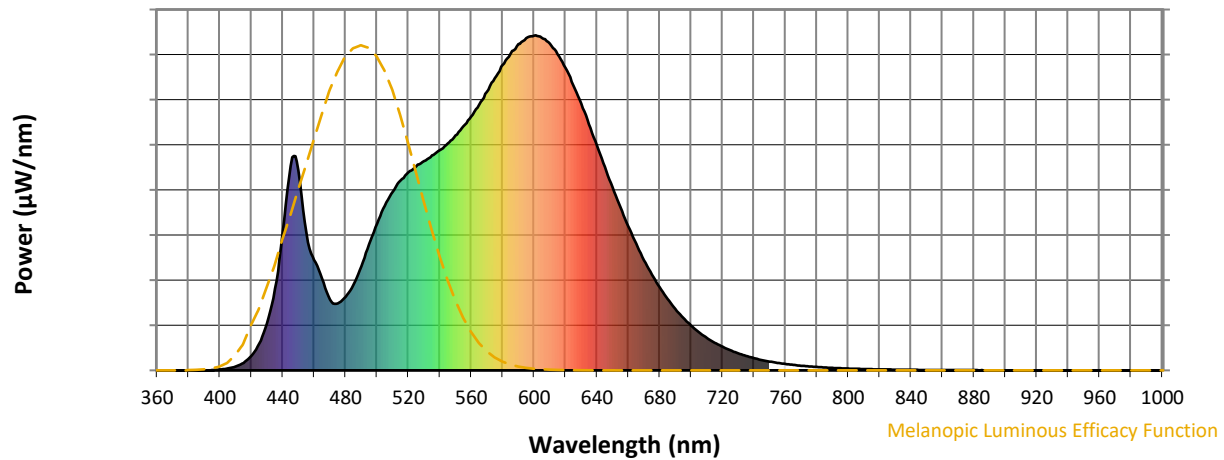
Scotopic Lumens: NR

S/P: 1.48

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.88

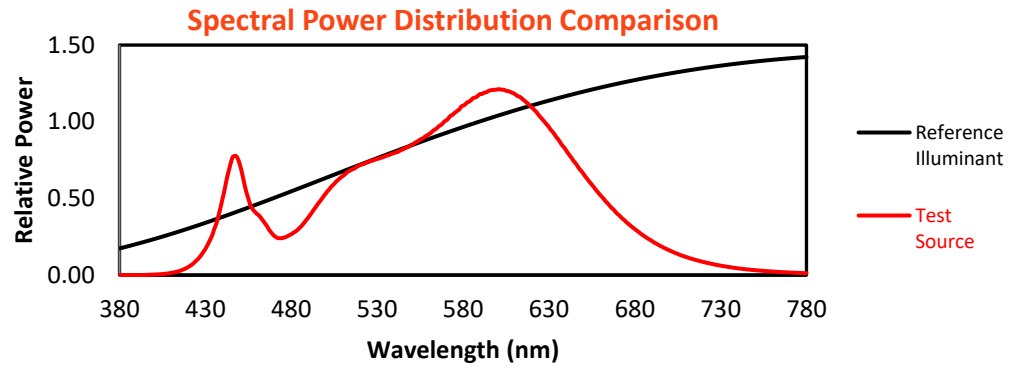
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

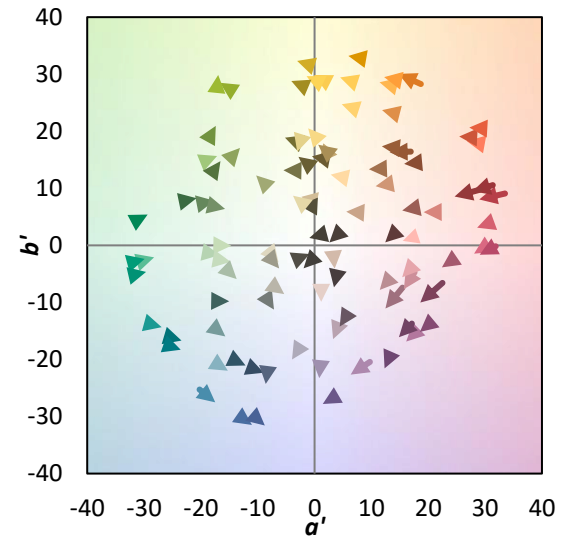
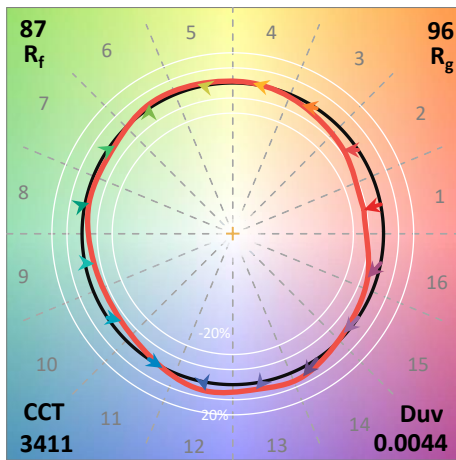
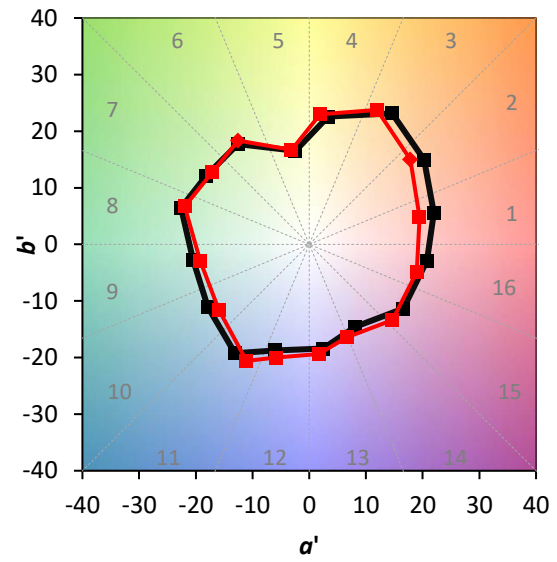
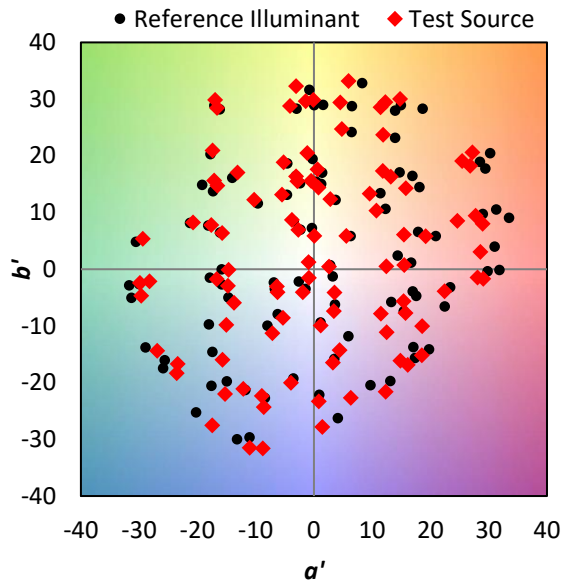
TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $CIE R_a = 83.5$
 $R_9 = 6.3$

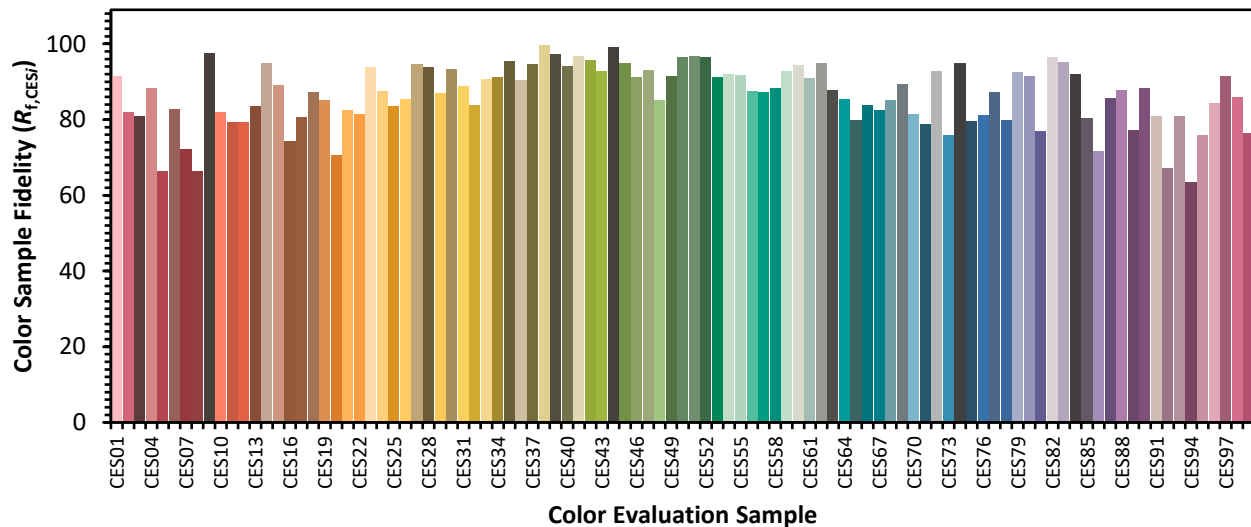


Color Vector Graphics

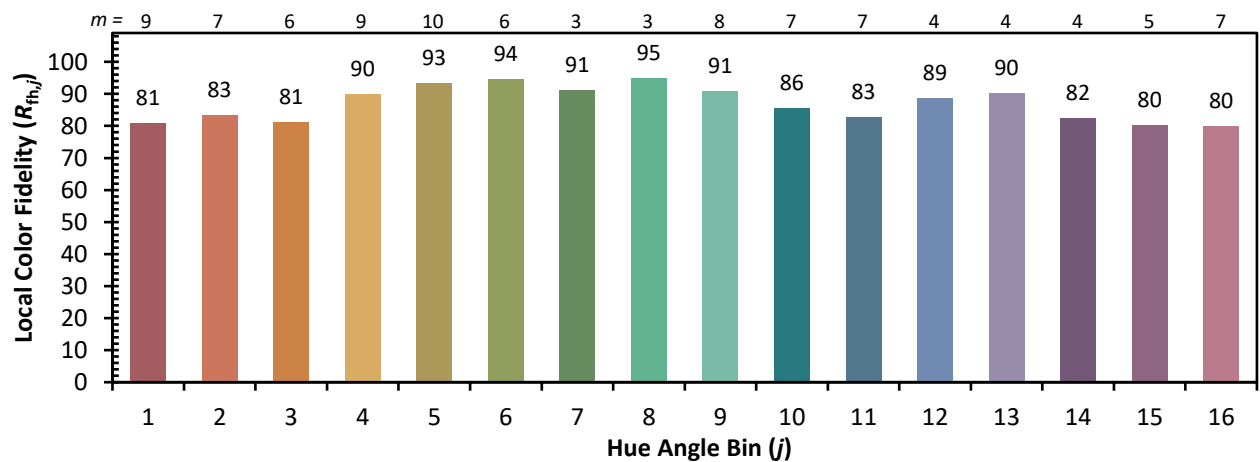
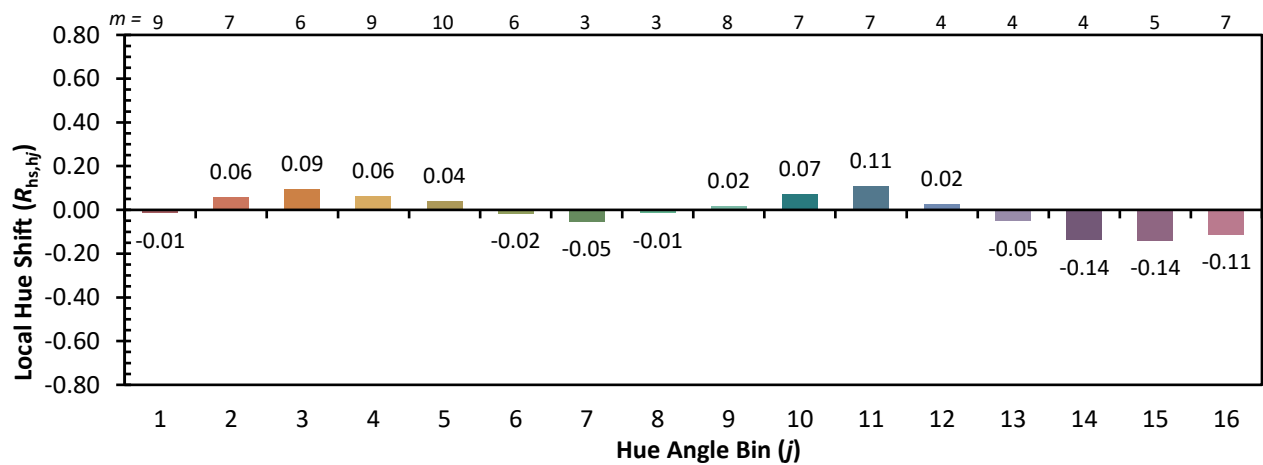
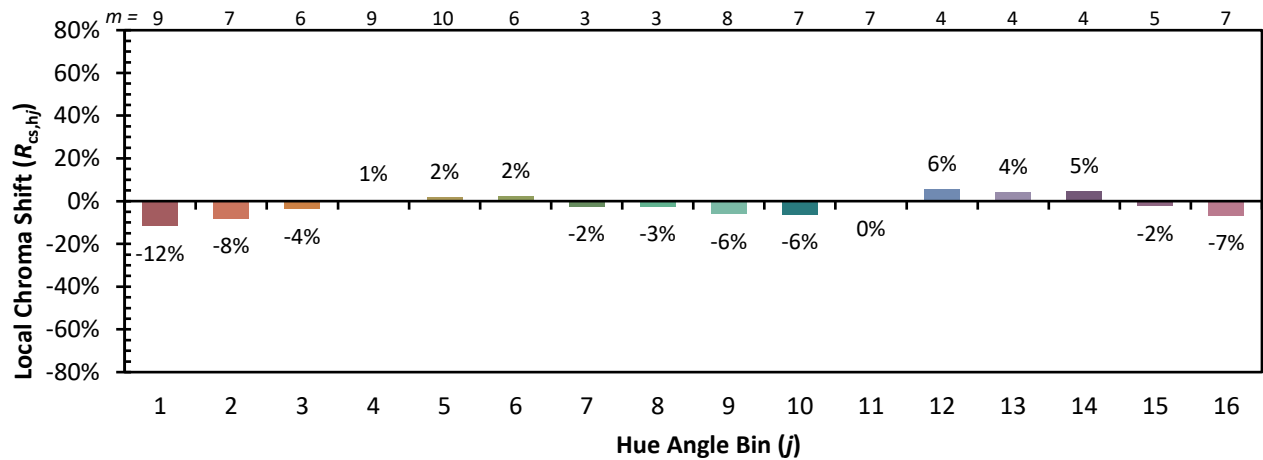


Individual Sample Fidelity Index ($R_{f,i}$)

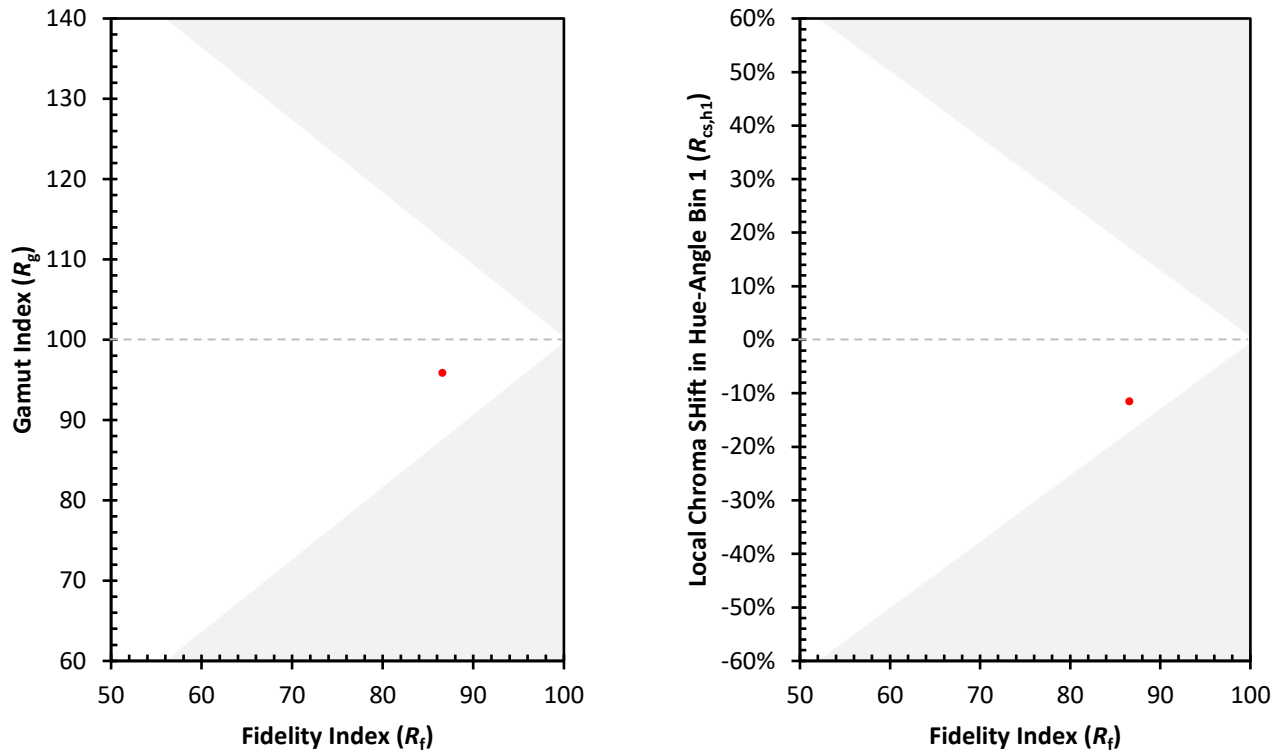
CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)