

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: P1049741

Luminaire Tested: **GALN-SA8A-827-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049741
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 8xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22420.9 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 217.6
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

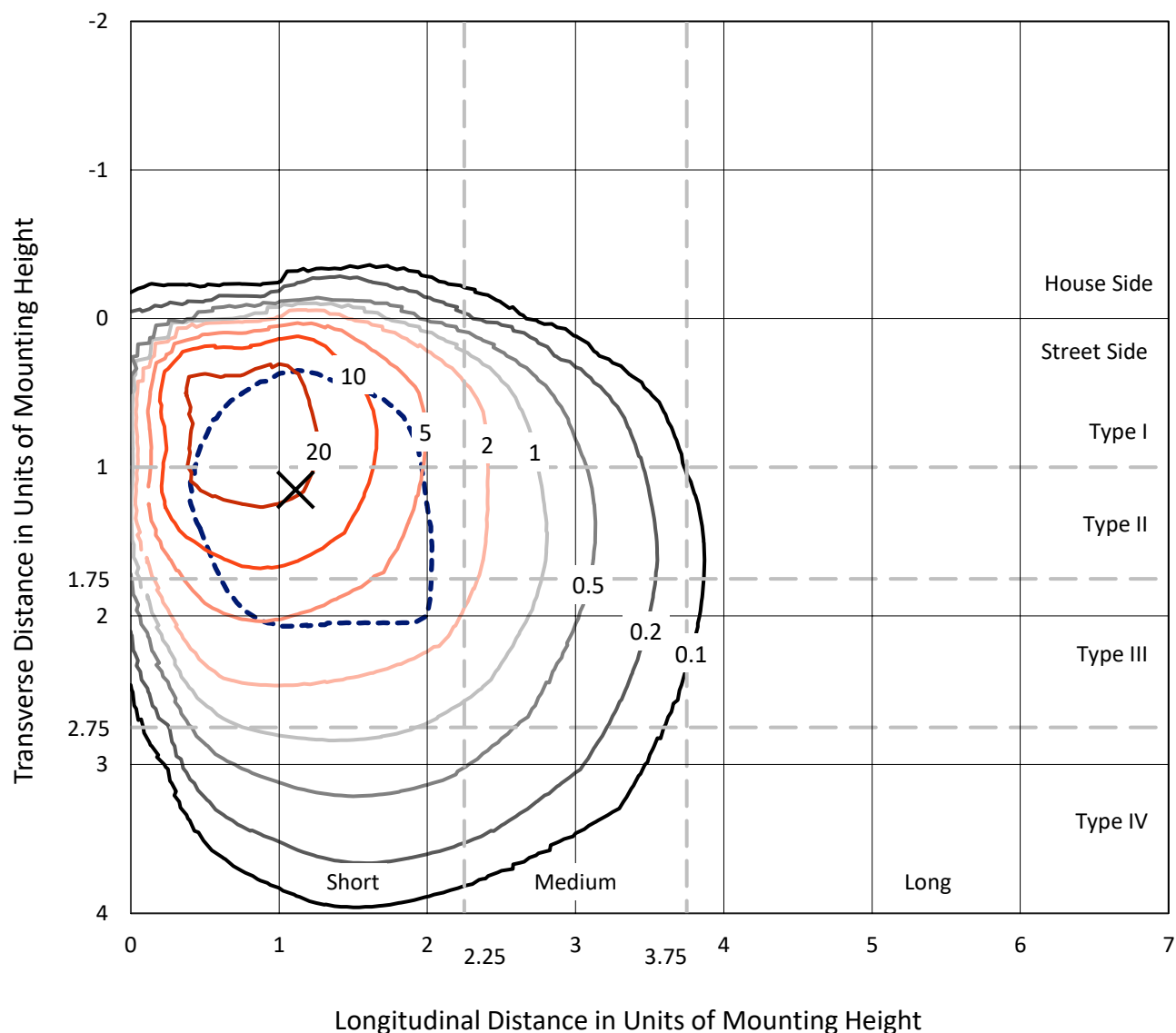
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

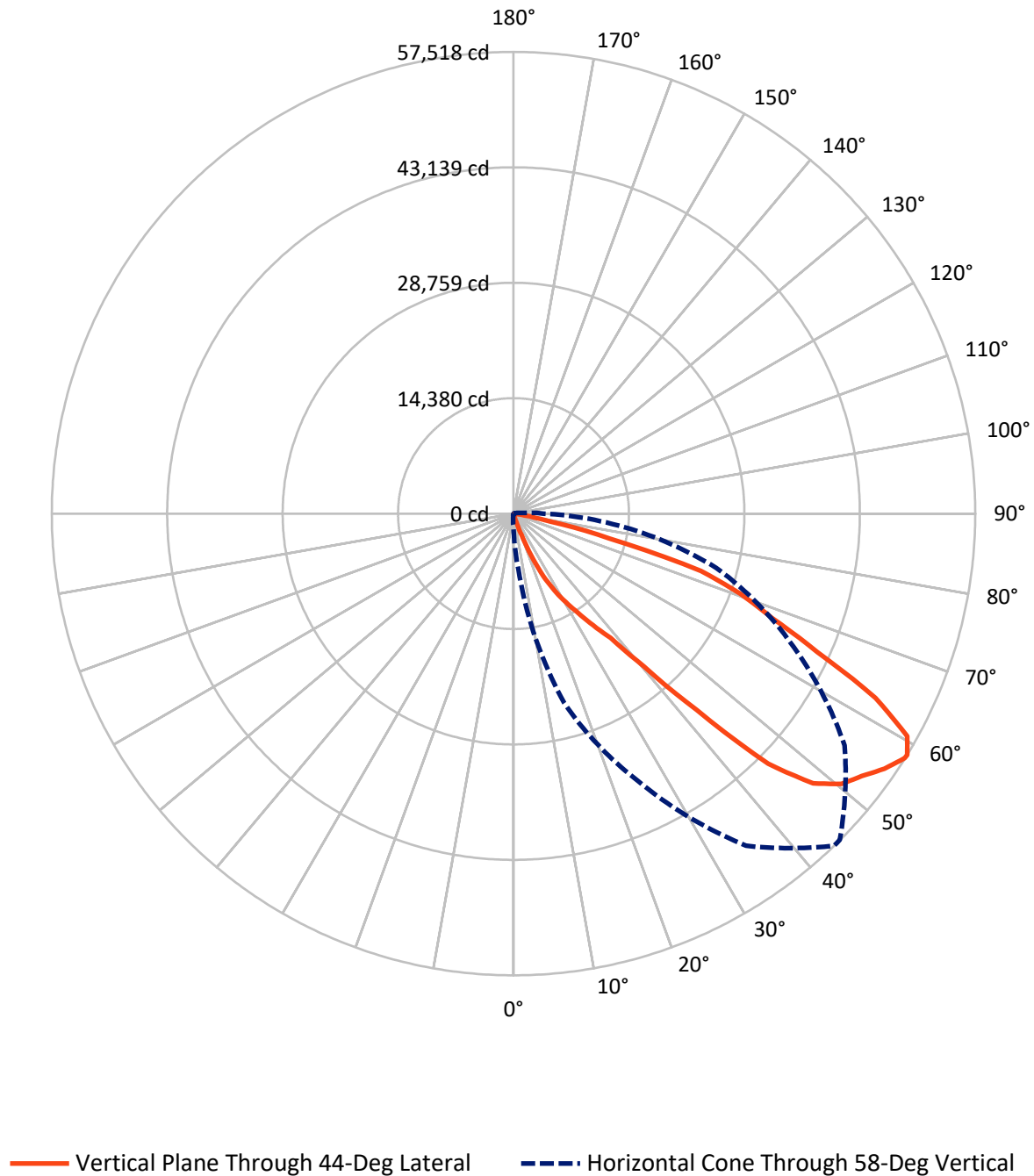


Based on 20 foot mounting height. Maximum calculated value = 39 fc

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	153.1	0.0	153.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	22267.8	0.0	22267.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	22420.9	0.0	22420.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.0
10°-20°	49.2	0.2
20°-30°	531.2	2.4
30°-40°	1570.8	7.0
40°-50°	4681.8	20.9
50°-60°	7428.9	33.1
60°-70°	6196.6	27.6
70°-80°	1911.1	8.5
80°-90°	42.4	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°	22420.9	100.0
0°-180°	22420.9	100.0



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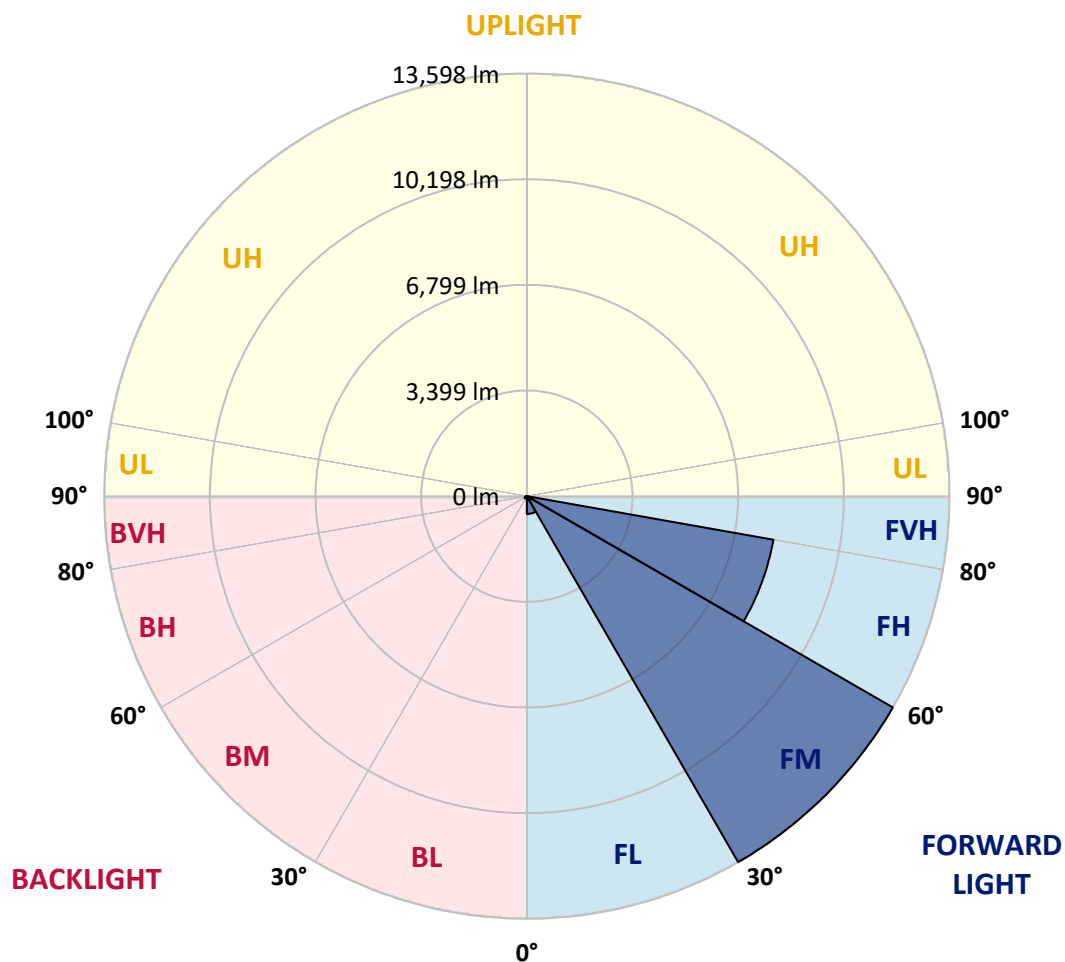
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	574.1	2.6			
FM	(30°-60°)	13597.8	60.6			
FH	(60°-80°)	8055.5	35.9			G4/12000
FVH	(80°-90°)	40.4	0.2			G1/100
BL	(0°-30°)	15.0	0.1	B0/110		
BM	(30°-60°)	83.8	0.4	B0/220		
BH	(60°-80°)	52.3	0.2	B0/110		G0/110
BVH	(80°-90°)	2.1	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
2.5°	127.0	127.0	121.9	115.2	108.4	101.6	99.9	96.5	94.8	93.2
5°	132.1	132.1	130.4	125.3	118.6	113.5	113.5	108.4	105.0	101.6
7.5°	135.5	137.2	140.6	138.9	135.5	130.4	130.4	127.0	121.9	113.5
10°	140.6	145.7	152.4	155.8	157.5	157.5	155.8	154.1	145.7	133.8
12.5°	145.7	155.8	172.8	189.7	199.9	213.4	211.7	208.3	186.3	160.9
15°	155.8	171.1	206.6	255.7	332.0	379.4	398.0	381.1	308.3	216.8
17.5°	167.7	193.1	299.8	535.2	877.3	1039.9	1138.2	1058.6	701.2	411.6
20°	179.5	235.4	557.2	1387.1	2276.3	2808.2	2955.5	2725.2	1749.6	784.2
22.5°	199.9	330.3	1129.7	2867.4	4905.0	5702.7	5853.4	5116.7	3304.4	1548.0
25°	242.2	479.3	1947.8	4672.9	7320.2	8666.7	8604.0	7638.6	5360.6	2472.8
27.5°	303.2	697.8	2945.4	6639.3	9633.8	10821.1	10963.4	9769.3	7145.7	3636.4
30°	391.2	967.1	4015.8	8214.5	11488.4	12772.2	12796.0	11561.2	8742.9	4657.7
32.5°	475.9	1221.2	4952.4	9737.1	13315.9	14723.4	14828.4	13309.1	9935.3	5721.3
35°	540.3	1387.1	5900.9	11075.1	15158.7	17098.0	17091.2	15287.4	11347.8	6671.5
37.5°	545.4	1553.1	6759.6	12443.7	17492.6	19663.9	19879.0	17890.6	13055.1	7846.9
40°	533.5	1739.4	7846.9	14577.7	21698.1	25029.6	25219.3	22712.6	16479.8	9859.1
42.5°	547.1	2062.9	9611.8	18519.0	28681.2	33465.9	33831.8	31196.4	22775.3	13964.6
45°	618.2	2671.0	13309.1	25112.6	38635.1	44468.3	44346.3	40550.7	30100.5	20214.4
47.5°	853.6	4159.7	18790.0	31530.0	44996.7	50191.3	50296.3	45657.2	34375.5	25019.4
50°	1312.6	6364.9	23395.2	34922.5	47732.0	52943.6	52845.3	47484.8	35999.7	27385.5
52.5°	1707.3	7960.4	25705.4	36113.2	48082.6	54303.6	54296.8	47965.8	36252.1	27588.8
55°	1805.5	8080.7	25724.0	36177.6	48868.5	56083.7	56307.3	49149.7	36579.0	26701.3
57.5°	1766.5	7154.2	24650.2	36550.2	50267.5	57460.7	57472.5	50296.3	37408.9	26157.6
58°	1732.7	7008.6	24433.4	36761.9	50508.0	57518.3	57489.5	50348.8	38084.7	26137.3
60°	1543.0	6085.5	23588.2	37302.2	50150.6	56336.1	56066.8	49202.2	37984.8	25929.0
62.5°	1212.7	4747.5	22756.6	36677.2	46319.5	50613.0	50724.8	43560.4	34627.8	24714.6
65°	965.4	3538.2	21022.3	32172.0	38142.3	41563.6	41980.2	35422.2	28903.1	20927.4
67.5°	768.9	2557.5	17634.9	25613.9	30181.8	34688.8	34992.0	29739.8	22392.5	16034.3
70°	625.0	1729.3	12172.7	18732.4	24894.1	29961.7	29980.3	24706.1	16713.5	10506.1
72.5°	553.8	1197.5	7066.1	13661.4	20185.6	24414.8	23921.9	20048.4	12845.1	6222.7
75°	479.3	794.3	3465.3	8351.7	12238.7	12321.7	12509.7	9300.1	6420.8	2958.9
77.5°	394.6	564.0	1365.1	2281.4	3670.3	4698.3	4872.8	3692.3	2135.8	728.3
80°	271.0	267.6	367.5	699.5	1050.1	1316.0	1227.9	950.2	558.9	279.5
82.5°	116.9	127.0	166.0	199.9	162.6	157.5	150.7	96.5	74.5	57.6
85°	37.3	33.9	35.6	35.6	28.8	22.0	22.0	10.2	0.0	0.0
87.5°	18.6	15.2	15.2	13.5	8.5	3.4	1.7	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°
98.2	0°	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
91.5	2.5°	89.8	89.8	86.4	83.0	81.3	77.9	76.2	74.5	72.8	71.1
98.2	5°	94.8	93.2	88.1	83.0	77.9	72.8	69.4	66.1	62.7	61.0
108.4	7.5°	103.3	99.9	89.8	81.3	74.5	67.7	64.4	59.3	55.9	50.8
120.3	10°	113.5	106.7	93.2	83.0	72.8	64.4	59.3	54.2	49.1	42.3
137.2	12.5°	127.0	115.2	98.2	81.3	69.4	59.3	54.2	47.4	42.3	37.3
159.2	15°	138.9	123.6	99.9	81.3	66.1	54.2	47.4	40.6	35.6	28.8
199.9	17.5°	155.8	130.4	98.2	76.2	61.0	47.4	40.6	35.6	27.1	16.9
296.4	20°	184.6	135.5	94.8	71.1	52.5	39.0	30.5	23.7	11.9	3.4
445.4	22.5°	230.3	149.0	91.5	64.4	45.7	30.5	20.3	8.5	0.0	0.0
677.5	25°	318.4	172.8	91.5	61.0	40.6	22.0	6.8	0.0	0.0	0.0
962.0	27.5°	423.4	204.9	91.5	52.5	32.2	11.9	0.0	0.0	0.0	0.0
1310.9	30°	530.1	240.5	91.5	45.7	25.4	1.7	0.0	0.0	0.0	0.0
1614.1	32.5°	631.8	271.0	93.2	39.0	16.9	0.0	0.0	0.0	0.0	0.0
2034.1	35°	735.1	276.1	91.5	33.9	10.2	0.0	0.0	0.0	0.0	0.0
2549.0	37.5°	867.2	265.9	86.4	30.5	5.1	0.0	0.0	0.0	0.0	0.0
3353.5	40°	1067.0	271.0	81.3	28.8	1.7	0.0	0.0	0.0	0.0	0.0
4788.1	42.5°	1436.3	293.0	74.5	28.8	0.0	0.0	0.0	0.0	0.0	0.0
7626.8	45°	2483.0	392.9	67.7	30.5	0.0	0.0	0.0	0.0	0.0	0.0
11449.5	47.5°	4107.2	706.3	66.1	30.5	0.0	0.0	0.0	0.0	0.0	0.0
13791.9	50°	5242.0	889.2	69.4	32.2	0.0	0.0	0.0	0.0	0.0	0.0
14084.9	52.5°	5233.6	990.8	72.8	33.9	6.8	0.0	0.0	0.0	0.0	0.0
12982.3	55°	4652.6	1009.4	77.9	37.3	22.0	0.0	0.0	0.0	0.0	0.0
11156.4	57.5°	3888.7	921.4	89.8	45.7	40.6	0.0	0.0	0.0	0.0	0.0
10870.2	58°	3753.3	880.7	93.2	47.4	44.0	0.0	0.0	0.0	0.0	0.0
9428.9	60°	3075.8	718.1	118.6	59.3	59.3	0.0	0.0	0.0	0.0	0.0
7730.1	62.5°	2123.9	626.7	135.5	76.2	61.0	0.0	0.0	0.0	0.0	0.0
5699.3	65°	1502.3	565.7	147.4	81.3	49.1	0.0	0.0	0.0	0.0	0.0
4049.7	67.5°	1122.9	521.7	162.6	83.0	25.4	0.0	0.0	0.0	0.0	0.0
2540.6	70°	860.4	489.5	199.9	88.1	6.8	0.0	0.0	0.0	0.0	0.0
1514.2	72.5°	701.2	452.2	242.2	91.5	0.0	0.0	0.0	0.0	0.0	0.0
907.8	75°	580.9	408.2	233.7	99.9	0.0	0.0	0.0	0.0	0.0	0.0
484.4	77.5°	386.2	316.7	213.4	99.9	0.0	0.0	0.0	0.0	0.0	0.0
172.8	80°	135.5	125.3	166.0	88.1	0.0	0.0	0.0	0.0	0.0	0.0
35.6	82.5°	20.3	16.9	23.7	30.5	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°
98.2	0°	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
69.4	2.5°	69.4	69.4	67.7	69.4	69.4	72.8	81.3	93.2	106.7	111.8
59.3	5°	57.6	55.9	54.2	54.2	54.2	59.3	66.1	79.6	94.8	101.6
49.1	7.5°	47.4	45.7	44.0	42.3	42.3	45.7	54.2	69.4	84.7	91.5
40.6	10°	39.0	35.6	33.9	32.2	32.2	35.6	44.0	59.3	76.2	83.0
33.9	12.5°	32.2	27.1	23.7	22.0	20.3	25.4	33.9	47.4	66.1	74.5
25.4	15°	22.0	16.9	11.9	10.2	8.5	13.5	22.0	37.3	55.9	66.1
13.5	17.5°	11.9	5.1	1.7	0.0	0.0	3.4	10.2	27.1	45.7	54.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	33.9	42.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	20.3	28.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	15.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
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	5.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.5
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°
98.2	0°	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
116.9	2.5°	120.3	118.6	115.2	111.8	111.8	111.8	116.9	121.9	127.0	127.0
105.0	5°	111.8	111.8	110.1	106.7	106.7	108.4	115.2	123.6	130.4	132.1
96.5	7.5°	103.3	106.7	103.3	101.6	103.3	105.0	111.8	121.9	132.1	135.5
89.8	10°	98.2	99.9	99.9	98.2	98.2	101.6	108.4	121.9	135.5	140.6
81.3	12.5°	91.5	94.8	93.2	93.2	93.2	96.5	105.0	120.3	138.9	145.7
72.8	15°	84.7	89.8	89.8	88.1	88.1	89.8	101.6	118.6	144.0	155.8
62.7	17.5°	77.9	83.0	84.7	81.3	81.3	84.7	96.5	118.6	147.4	167.7
50.8	20°	64.4	72.8	77.9	72.8	72.8	76.2	88.1	111.8	149.0	179.5
37.3	22.5°	50.8	59.3	66.1	64.4	64.4	66.1	81.3	106.7	150.7	199.9
22.0	25°	37.3	45.7	50.8	54.2	54.2	59.3	74.5	103.3	157.5	242.2
10.2	27.5°	22.0	32.2	39.0	42.3	44.0	50.8	69.4	99.9	169.4	303.2
0.0	30°	10.2	18.6	27.1	33.9	33.9	45.7	64.4	96.5	184.6	391.2
0.0	32.5°	0.0	8.5	13.5	23.7	25.4	37.3	59.3	93.2	206.6	475.9
0.0	35°	0.0	0.0	6.8	18.6	18.6	30.5	54.2	89.8	240.5	540.3
0.0	37.5°	0.0	0.0	0.0	13.5	15.2	27.1	52.5	88.1	247.3	545.4
0.0	40°	0.0	0.0	0.0	10.2	11.9	25.4	52.5	89.8	223.6	533.5
0.0	42.5°	0.0	0.0	0.0	6.8	8.5	25.4	52.5	93.2	201.6	547.1
0.0	45°	0.0	0.0	0.0	5.1	6.8	27.1	50.8	91.5	189.7	618.2
0.0	47.5°	0.0	0.0	0.0	6.8	10.2	27.1	49.1	89.8	191.4	853.6
0.0	50°	0.0	0.0	0.0	8.5	11.9	27.1	50.8	86.4	210.0	1312.6
0.0	52.5°	0.0	0.0	0.0	6.8	10.2	30.5	55.9	84.7	228.7	1707.3
0.0	55°	0.0	0.0	0.0	1.7	5.1	39.0	61.0	84.7	257.4	1805.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	44.0	69.4	89.8	304.9	1766.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	44.0	71.1	89.8	308.3	1732.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	44.0	77.9	99.9	332.0	1543.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	37.3	93.2	125.3	345.5	1212.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	30.5	110.1	137.2	355.7	965.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	28.8	113.5	138.9	360.8	768.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	30.5	111.8	149.0	377.7	625.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	33.9	101.6	164.3	377.7	553.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	35.6	94.8	184.6	343.8	479.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	33.9	93.2	215.1	306.6	394.6
0.0	80°	3.4	5.1	5.1	3.4	3.4	28.8	91.5	218.5	260.8	271.0
1.7	82.5°	10.2	13.5	11.9	8.5	8.5	25.4	81.3	182.9	135.5	116.9
10.2	85°	18.6	22.0	22.0	18.6	18.6	23.7	50.8	66.1	45.7	37.3
18.6	87.5°	25.4	28.8	28.8	25.4	25.4	23.7	22.0	20.3	18.6	18.6
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

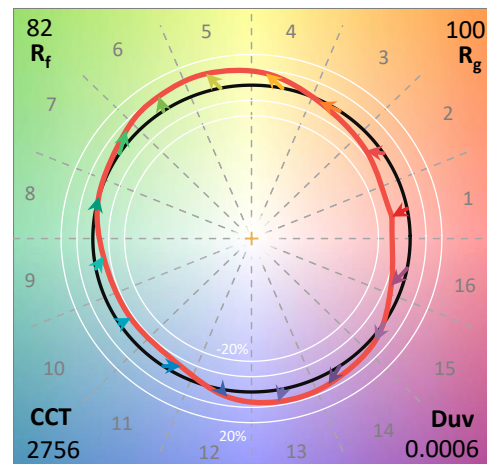
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

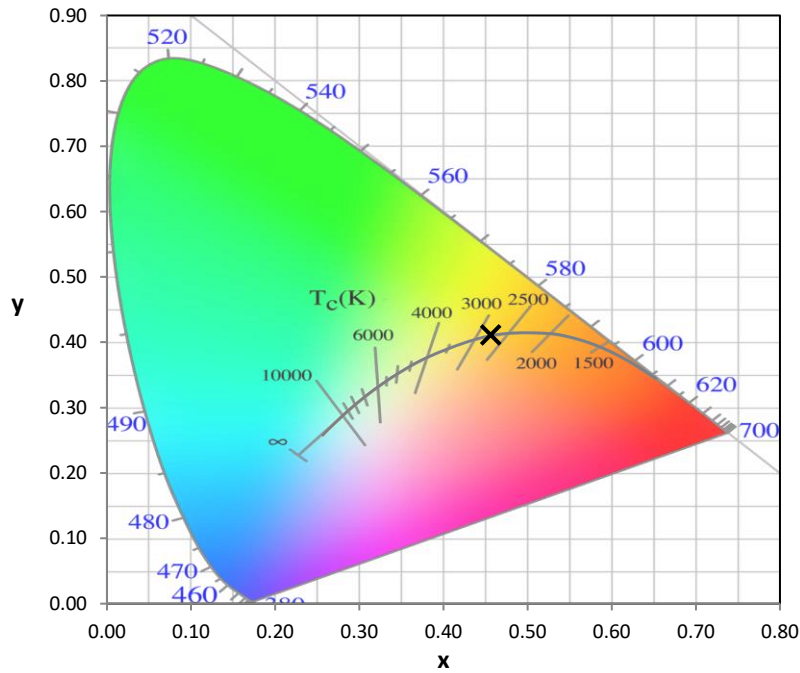
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

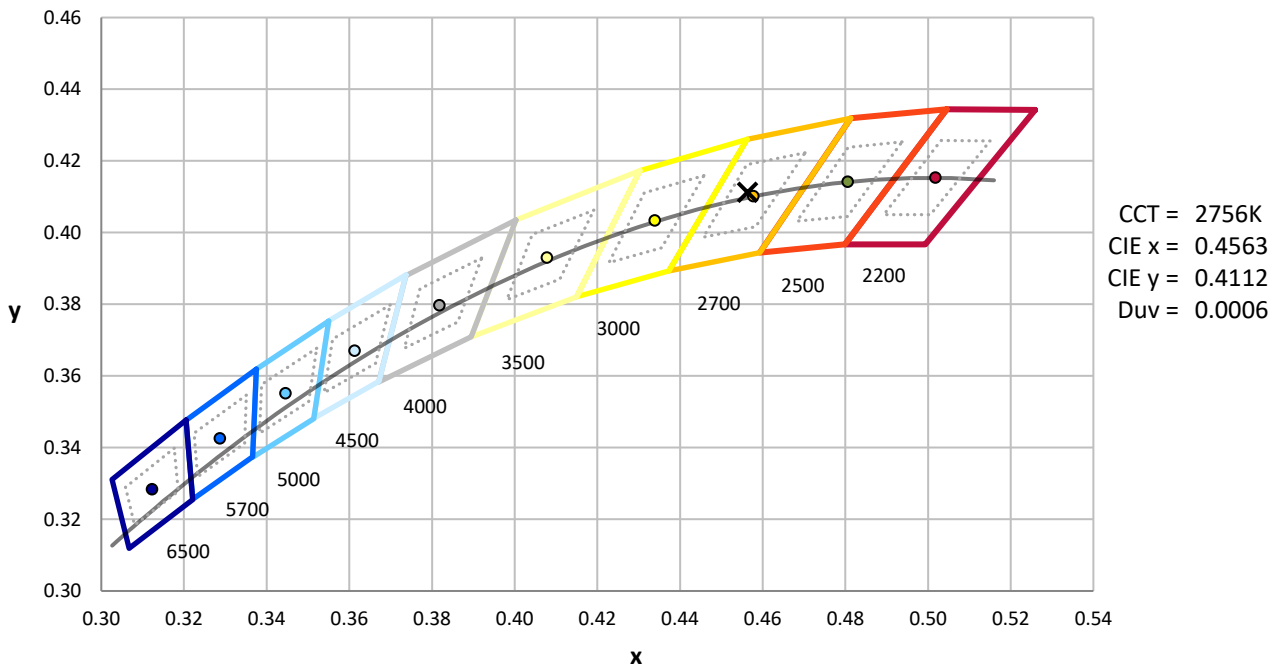
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



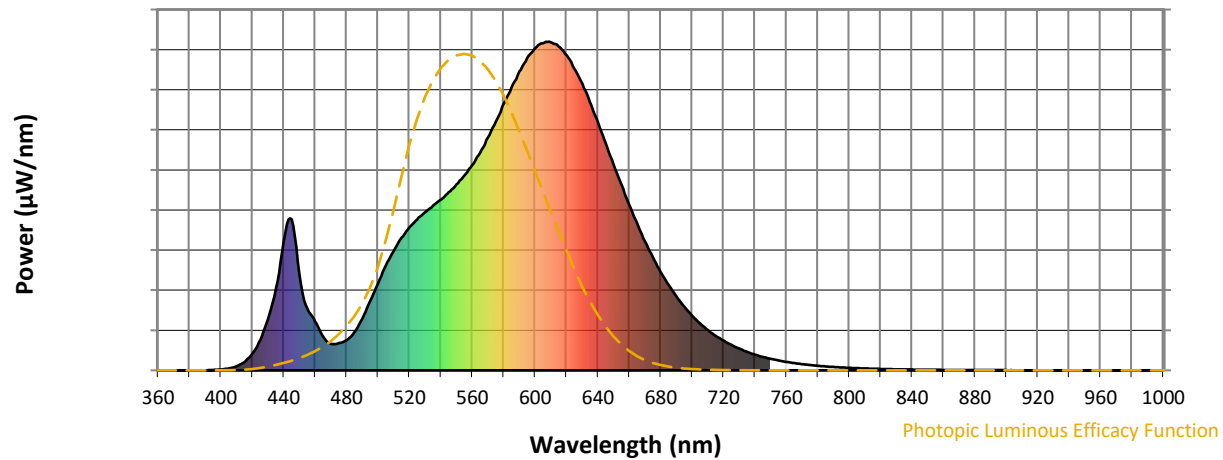
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

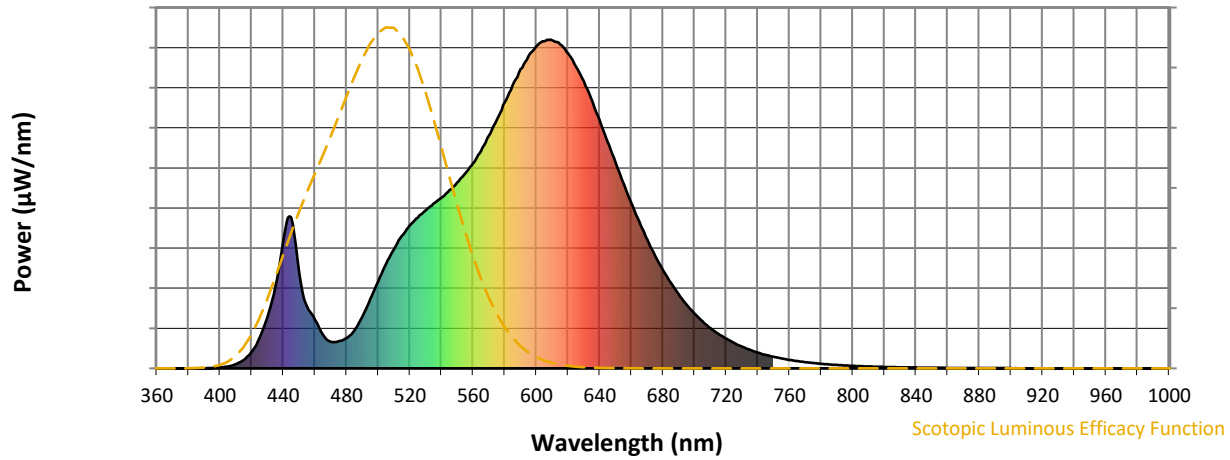


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength



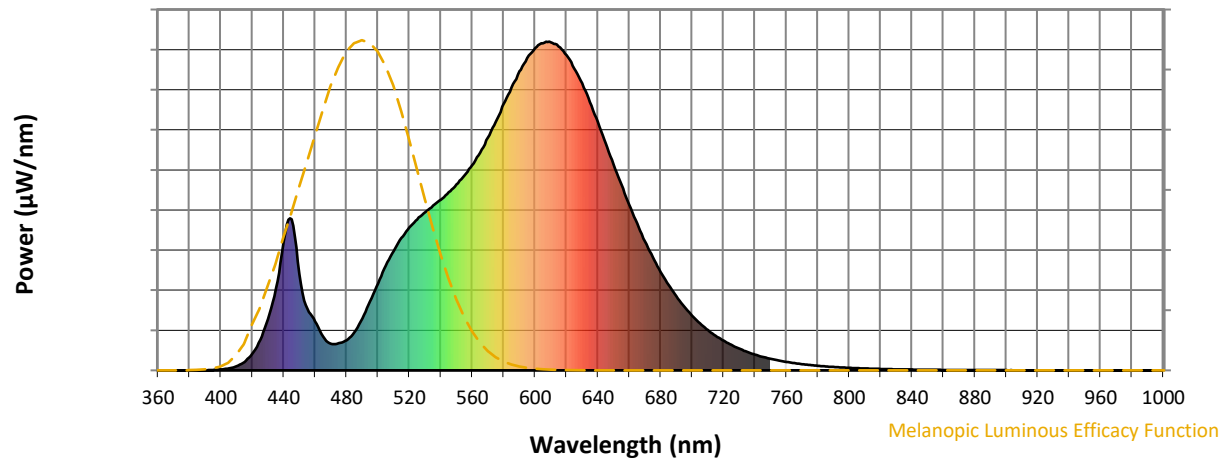
Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.16

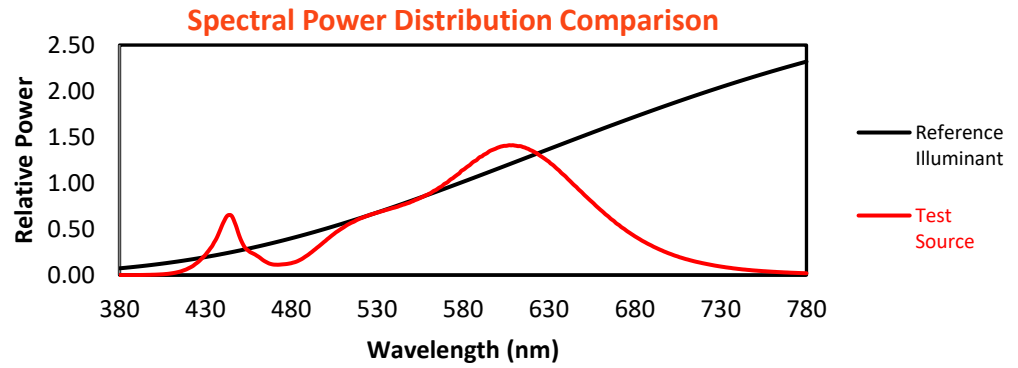
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

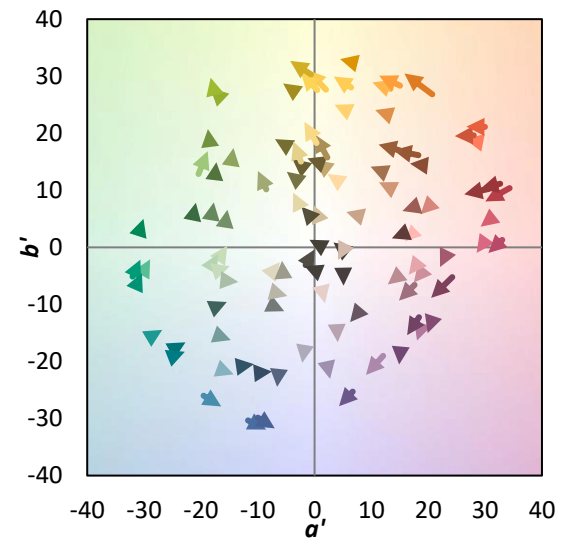
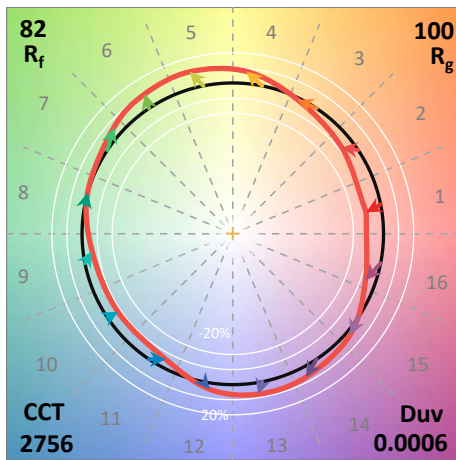
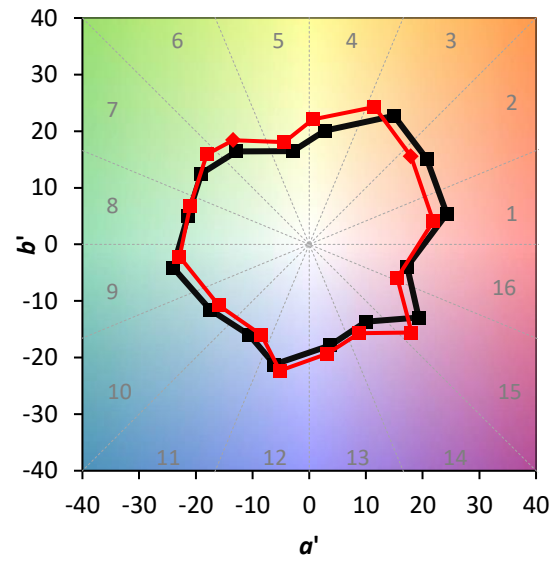
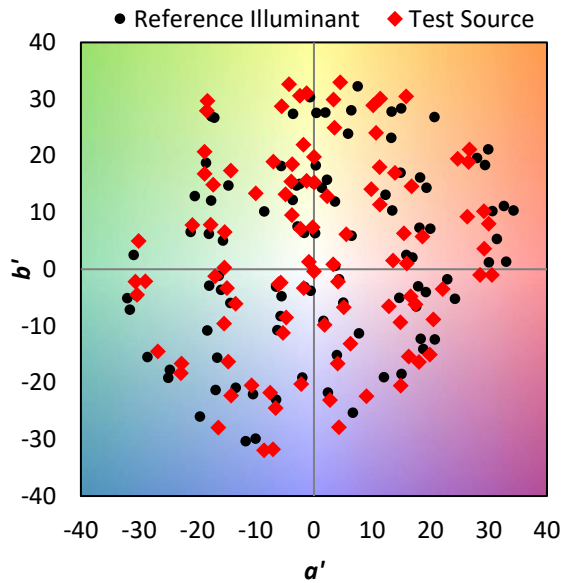
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

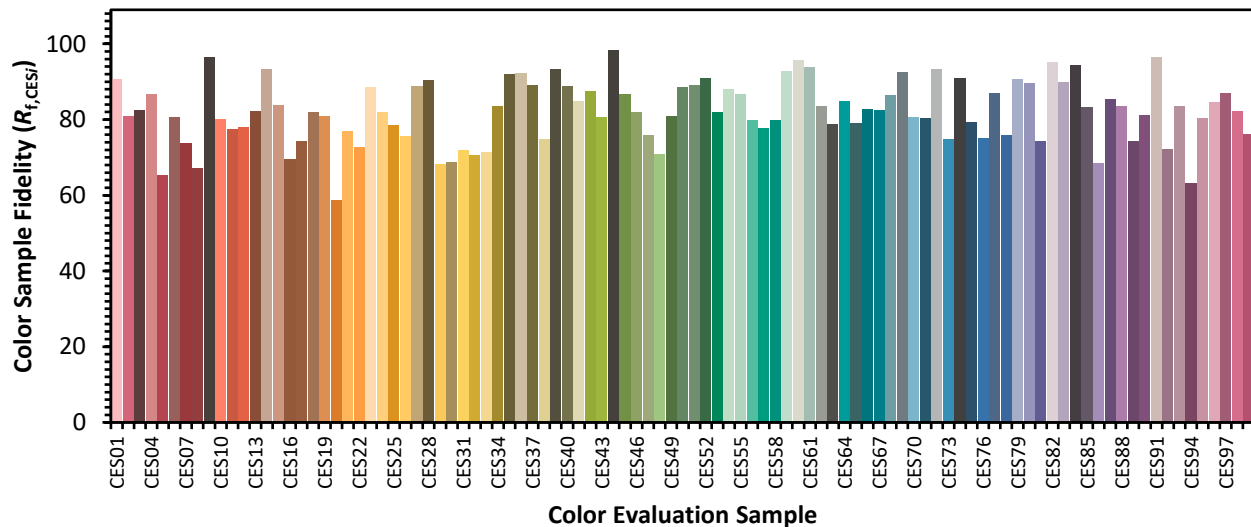


Color Vector Graphics

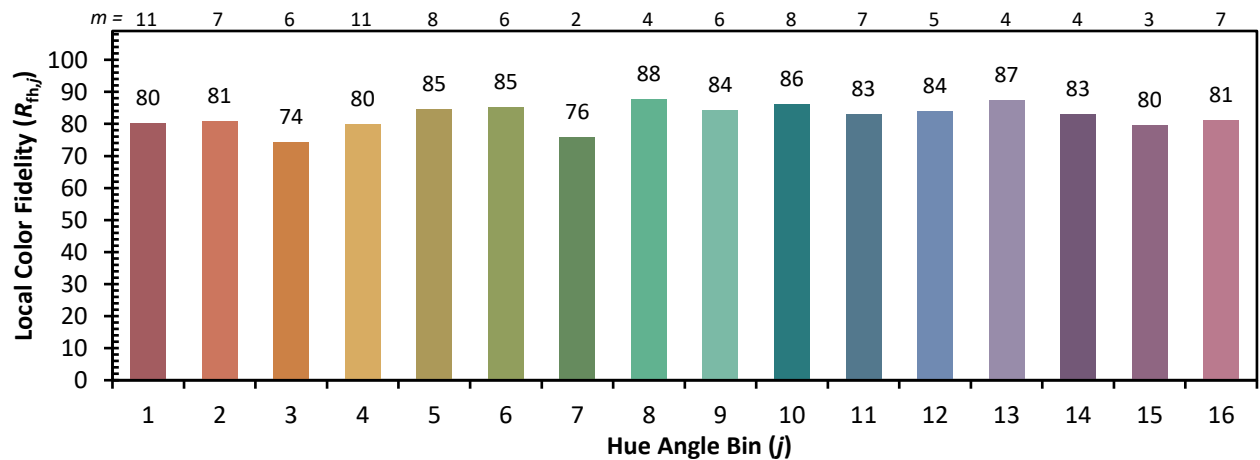
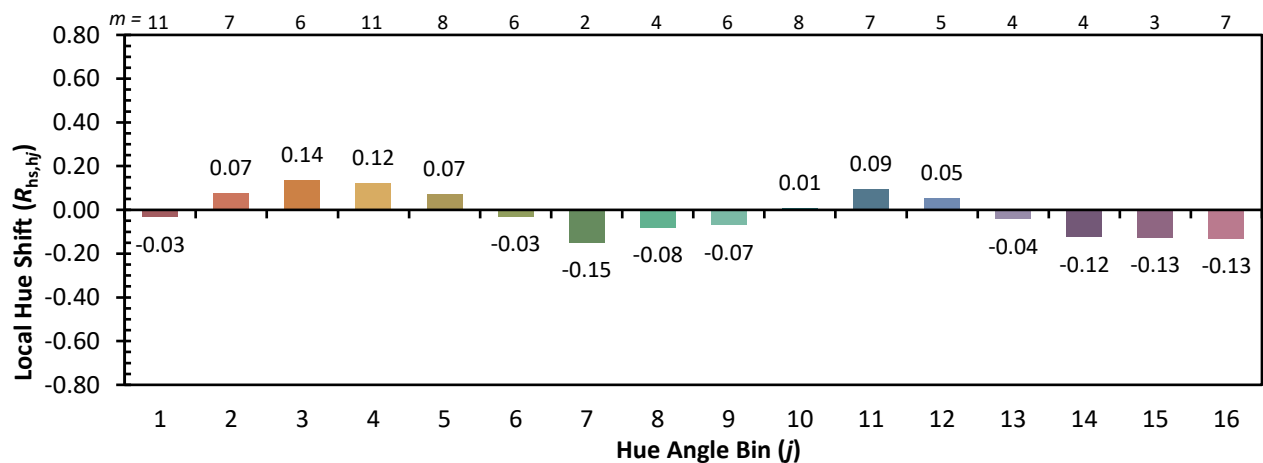
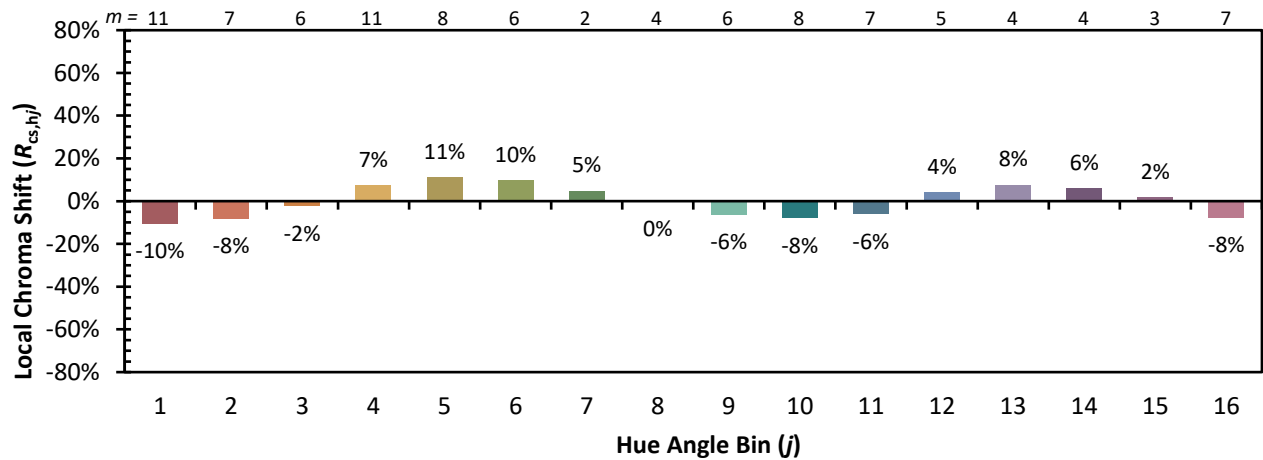


Individual Sample Fidelity Index ($R_{f,i}$)

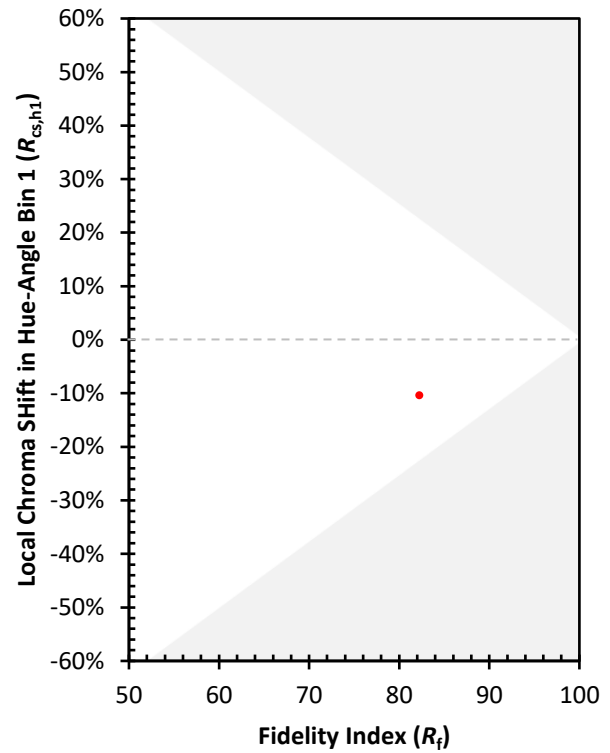
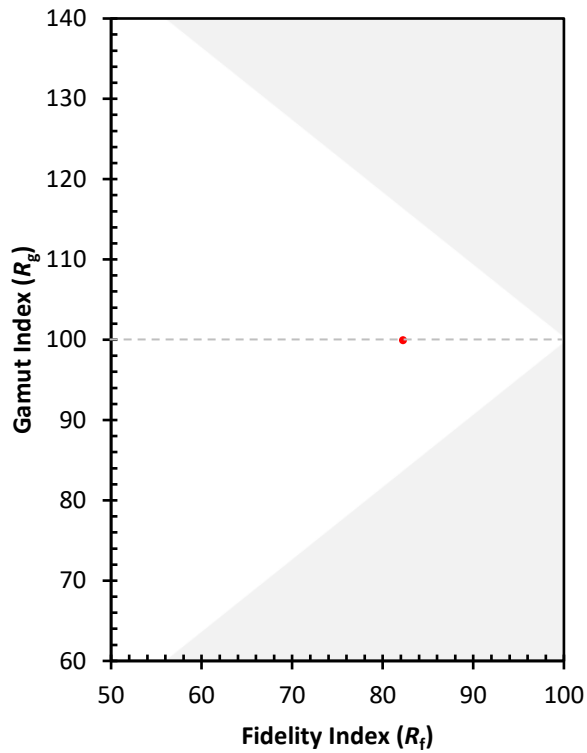
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)