

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: P1049537

Luminaire Tested: **GALN-SA2A-727-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049537
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6064.2 lumens
Efficiency: N/A
Efficacy: 108.7 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): 55.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

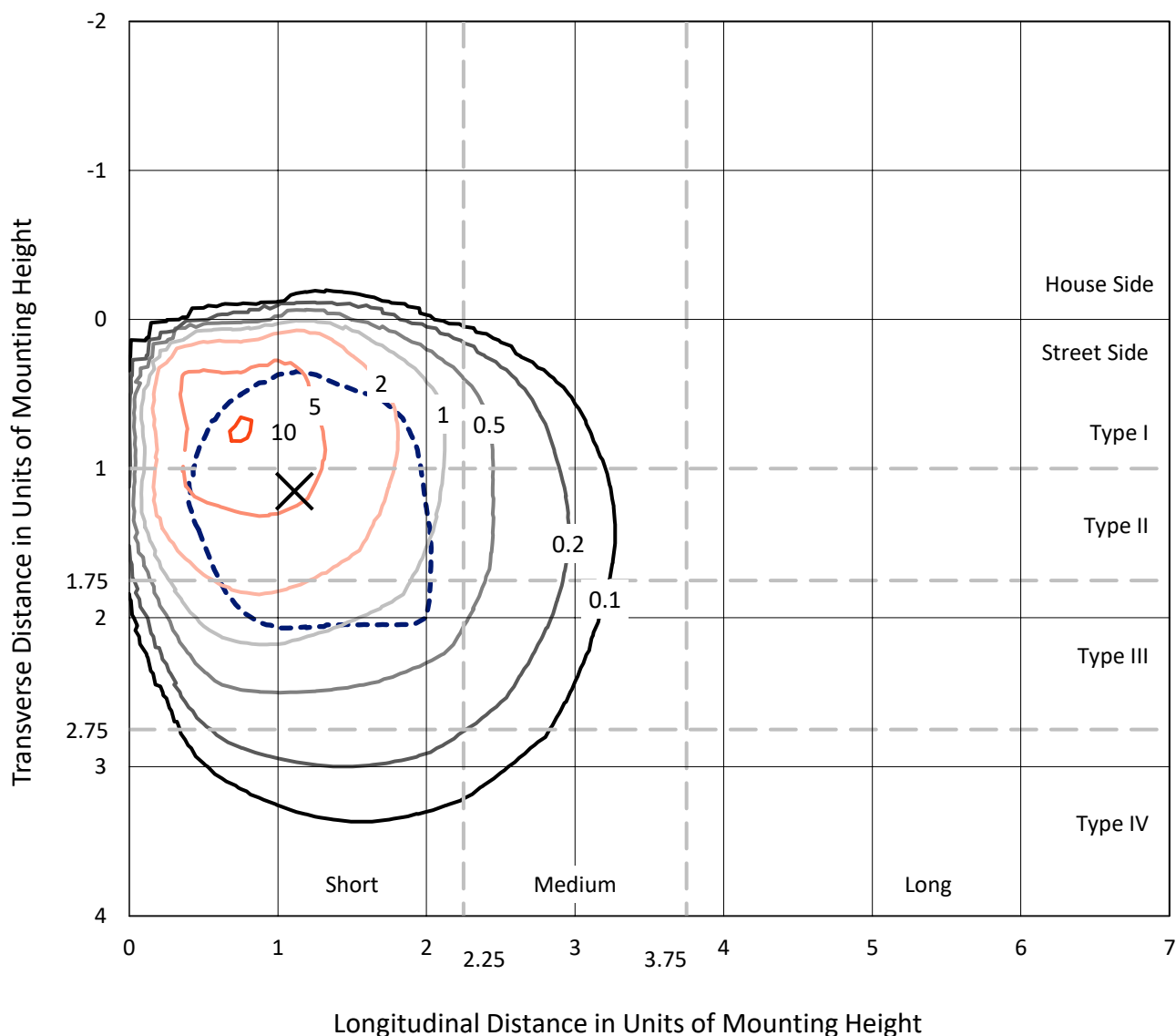
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



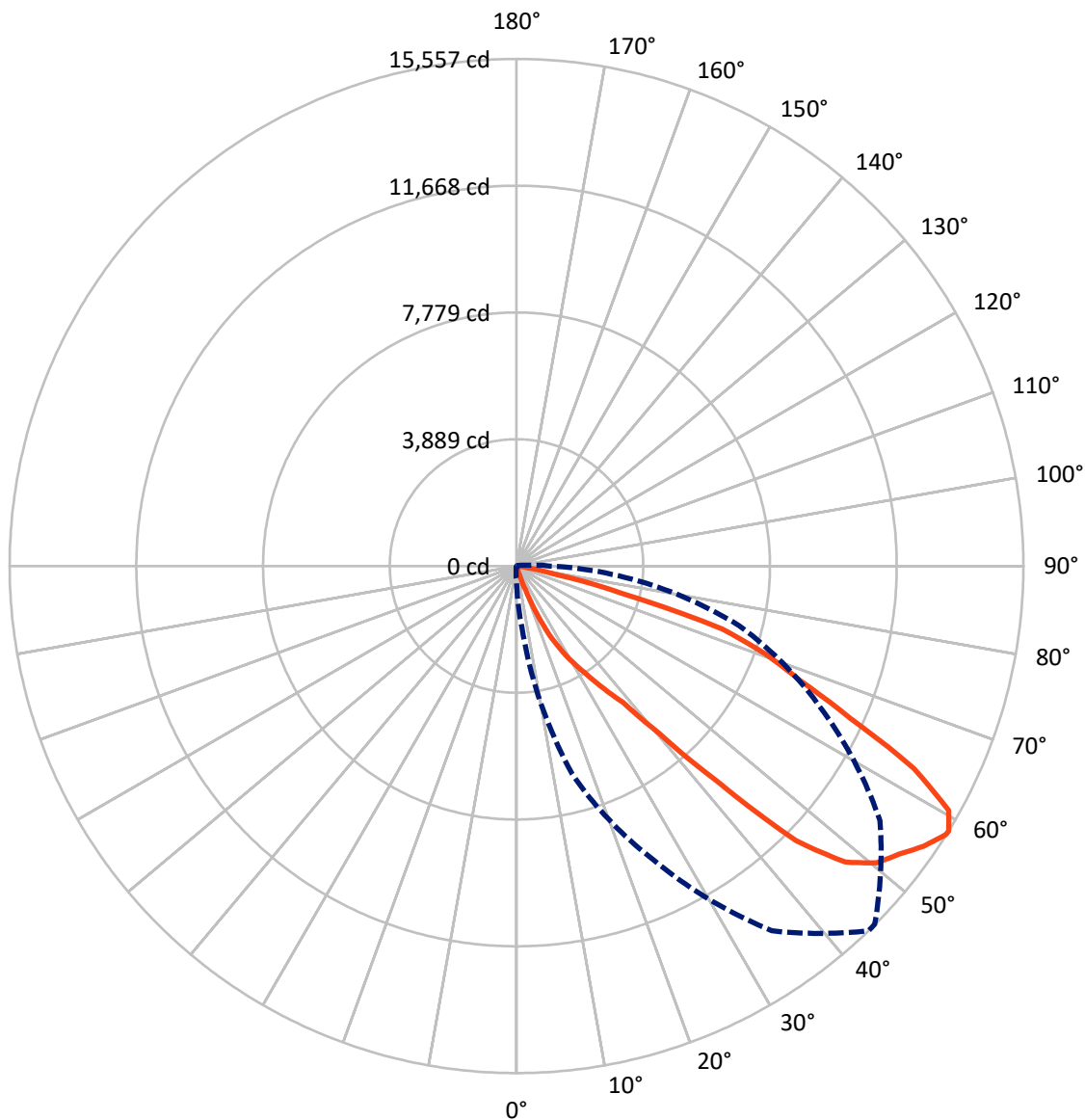
Based on 20 foot mounting height. Maximum calculated value = 10.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	41.4	0.0	41.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	6022.8	0.0	6022.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	6064.2	0.0	6064.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.0
10°-20°	13.3	0.2
20°-30°	143.7	2.4
30°-40°	424.9	7.0
40°-50°	1266.3	20.9
50°-60°	2009.3	33.1
60°-70°	1676.0	27.6
70°-80°	516.9	8.5
80°-90°	11.5	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°	6064.2	100.0
0°-180°	6064.2	100.0



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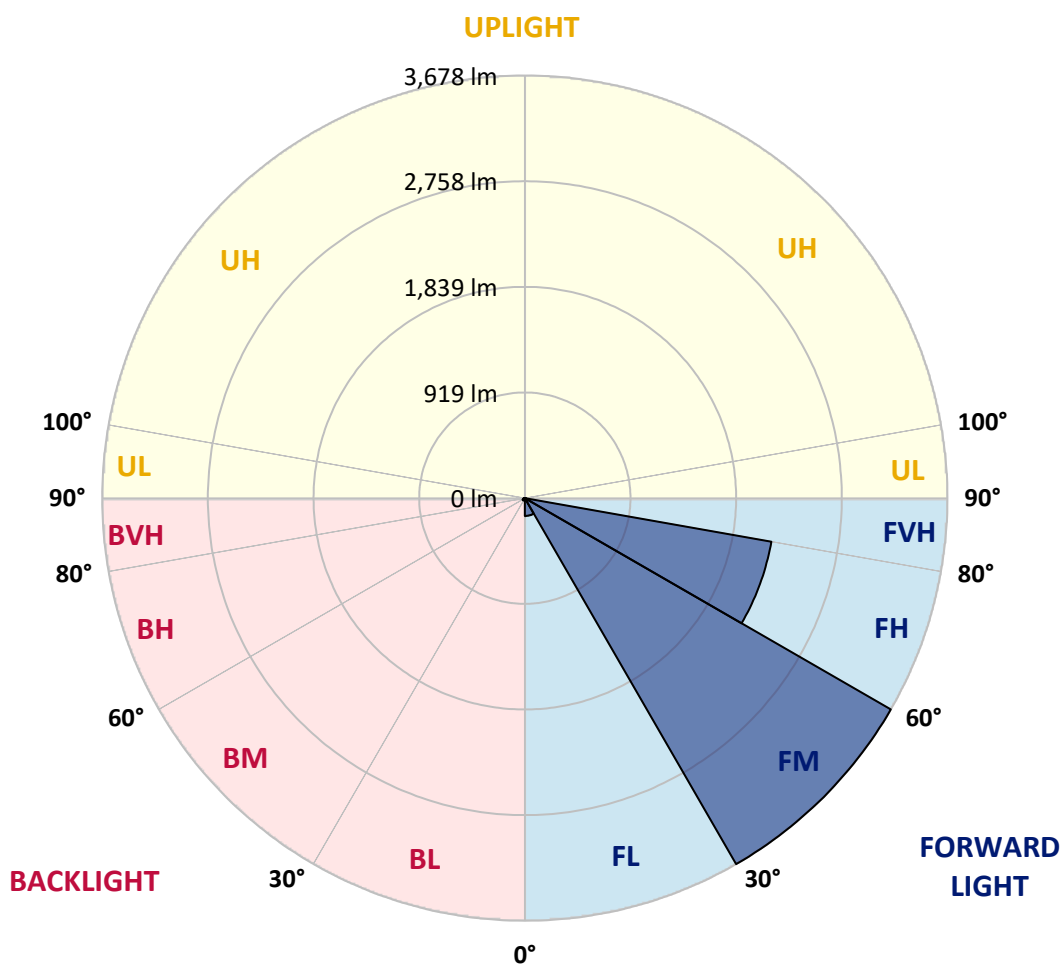
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	155.3	2.6			
FM	(30°-60°)	3677.8	60.6			
FH	(60°-80°)	2178.8	35.9			G2/5000
FVH	(80°-90°)	10.9	0.2			G1/100
BL	(0°-30°)	4.1	0.1	B0/110		
BM	(30°-60°)	22.7	0.4	B0/220		
BH	(60°-80°)	14.1	0.2	B0/110		G0/110
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
2.5°	34.4	34.4	33.0	31.2	29.3	27.5	27.0	26.1	25.7	25.2	24.7
5°	35.7	35.7	35.3	33.9	32.1	30.7	30.7	29.3	28.4	27.5	26.6
7.5°	36.6	37.1	38.0	37.6	36.6	35.3	35.3	34.4	33.0	30.7	29.3
10°	38.0	39.4	41.2	42.1	42.6	42.6	42.1	41.7	39.4	36.2	32.5
12.5°	39.4	42.1	46.7	51.3	54.1	57.7	57.3	56.3	50.4	43.5	37.1
15°	42.1	46.3	55.9	69.2	89.8	102.6	107.7	103.1	83.4	58.6	43.1
17.5°	45.4	52.2	81.1	144.8	237.3	281.3	307.8	286.3	189.7	111.3	54.1
20°	48.6	63.7	150.7	375.2	615.7	759.5	799.4	737.1	473.2	212.1	80.2
22.5°	54.1	89.3	305.6	775.6	1326.7	1542.4	1583.2	1383.9	893.8	418.7	120.5
25°	65.5	129.6	526.8	1263.9	1979.9	2344.1	2327.1	2066.0	1449.9	668.8	183.2
27.5°	82.0	188.7	796.6	1795.8	2605.7	2926.8	2965.3	2642.3	1932.7	983.5	260.2
30°	105.8	261.6	1086.2	2221.8	3107.3	3454.5	3460.9	3127.0	2364.7	1259.8	354.6
32.5°	128.7	330.3	1339.5	2633.6	3601.6	3982.3	4010.7	3599.8	2687.2	1547.5	436.6
35°	146.1	375.2	1596.0	2995.5	4100.0	4624.5	4622.7	4134.8	3069.3	1804.5	550.2
37.5°	147.5	420.1	1828.3	3365.7	4731.3	5318.5	5376.7	4838.9	3531.0	2122.4	689.4
40°	144.3	470.5	2122.4	3942.9	5868.7	6769.8	6821.1	6143.1	4457.3	2666.6	907.0
42.5°	148.0	558.0	2599.7	5008.9	7757.5	9051.6	9150.6	8437.7	6160.1	3777.0	1295.0
45°	167.2	722.4	3599.8	6792.3	10449.7	12027.4	11994.4	10967.8	8141.4	5467.4	2062.8
47.5°	230.9	1125.1	5082.2	8528.0	12170.4	13575.3	13603.7	12349.0	9297.6	6767.1	3096.8
50°	355.0	1721.5	6327.7	9445.6	12910.2	14319.8	14293.2	12843.3	9736.9	7407.0	3730.3
52.5°	461.8	2153.1	6952.6	9767.6	13005.0	14687.6	14685.8	12973.4	9805.2	7462.0	3809.6
55°	488.3	2185.6	6957.6	9785.0	13217.6	15169.1	15229.5	13293.6	9893.6	7222.0	3511.3
57.5°	477.8	1935.0	6667.2	9885.8	13596.0	15541.5	15544.7	13603.7	10118.1	7074.9	3017.5
58°	468.6	1895.6	6608.6	9943.1	13661.0	15557.1	15549.3	13617.9	10300.8	7069.4	2940.1
60°	417.3	1646.0	6380.0	10089.2	13564.3	15237.3	15164.5	13307.8	10273.8	7013.1	2550.2
62.5°	328.0	1284.1	6155.0	9920.2	12528.1	13689.4	13719.6	11781.9	9365.9	6684.6	2090.8
65°	261.1	957.0	5685.9	8701.6	10316.4	11241.8	11354.5	9580.7	7817.5	5660.3	1541.5
67.5°	208.0	691.7	4769.7	6927.9	8163.3	9382.4	9464.4	8043.8	6056.5	4336.8	1095.3
70°	169.0	467.7	3292.4	5066.6	6733.2	8103.8	8108.8	6682.3	4520.5	2841.6	687.2
72.5°	149.8	323.9	1911.2	3695.0	5459.6	6603.5	6470.2	5422.5	3474.2	1683.1	409.5
75°	129.6	214.8	937.3	2258.9	3310.2	3332.7	3383.5	2515.4	1736.7	800.3	245.5
77.5°	106.7	152.5	369.2	617.1	992.7	1270.8	1318.0	998.7	577.7	197.0	131.0
80°	73.3	72.4	99.4	189.2	284.0	355.9	332.1	257.0	151.2	75.6	46.7
82.5°	31.6	34.4	44.9	54.1	44.0	42.6	40.8	26.1	20.2	15.6	9.6
85°	10.1	9.2	9.6	9.6	7.8	6.0	6.0	2.7	0.0	0.0	0.0
87.5°	5.0	4.1	4.1	3.7	2.3	0.9	0.5	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	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
2.5°	24.3	24.3	23.4	22.4	22.0	21.1	20.6	20.2	19.7	19.2	18.8
5°	25.7	25.2	23.8	22.4	21.1	19.7	18.8	17.9	16.9	16.5	16.0
7.5°	27.9	27.0	24.3	22.0	20.2	18.3	17.4	16.0	15.1	13.7	13.3
10°	30.7	28.9	25.2	22.4	19.7	17.4	16.0	14.7	13.3	11.5	11.0
12.5°	34.4	31.2	26.6	22.0	18.8	16.0	14.7	12.8	11.5	10.1	9.2
15°	37.6	33.4	27.0	22.0	17.9	14.7	12.8	11.0	9.6	7.8	6.9
17.5°	42.1	35.3	26.6	20.6	16.5	12.8	11.0	9.6	7.3	4.6	3.7
20°	49.9	36.6	25.7	19.2	14.2	10.5	8.2	6.4	3.2	0.9	0.0
22.5°	62.3	40.3	24.7	17.4	12.4	8.2	5.5	2.3	0.0	0.0	0.0
25°	86.1	46.7	24.7	16.5	11.0	6.0	1.8	0.0	0.0	0.0	0.0
27.5°	114.5	55.4	24.7	14.2	8.7	3.2	0.0	0.0	0.0	0.0	0.0
30°	143.4	65.1	24.7	12.4	6.9	0.5	0.0	0.0	0.0	0.0	0.0
32.5°	170.9	73.3	25.2	10.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0
35°	198.8	74.7	24.7	9.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	234.5	71.9	23.4	8.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	288.6	73.3	22.0	7.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	388.5	79.3	20.2	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	671.6	106.3	18.3	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1110.9	191.0	17.9	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	1417.8	240.5	18.8	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1415.5	268.0	19.7	9.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
55°	1258.4	273.0	21.1	10.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1051.8	249.2	24.3	12.4	11.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	1015.2	238.2	25.2	12.8	11.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	831.9	194.2	32.1	16.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	574.5	169.5	36.6	20.6	16.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	406.3	153.0	39.9	22.0	13.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	303.7	141.1	44.0	22.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	232.7	132.4	54.1	23.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	189.7	122.3	65.5	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	157.1	110.4	63.2	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	104.4	85.7	57.7	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.6	33.9	44.9	23.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.5	4.6	6.4	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
2.5°	18.8	18.8	18.3	18.8	18.8	19.7	22.0	25.2	28.9	30.2	31.6
5°	15.6	15.1	14.7	14.7	14.7	16.0	17.9	21.5	25.7	27.5	28.4
7.5°	12.8	12.4	11.9	11.5	11.5	12.4	14.7	18.8	22.9	24.7	26.1
10°	10.5	9.6	9.2	8.7	8.7	9.6	11.9	16.0	20.6	22.4	24.3
12.5°	8.7	7.3	6.4	6.0	5.5	6.9	9.2	12.8	17.9	20.2	22.0
15°	6.0	4.6	3.2	2.7	2.3	3.7	6.0	10.1	15.1	17.9	19.7
17.5°	3.2	1.4	0.5	0.0	0.0	0.9	2.7	7.3	12.4	14.7	16.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	9.2	11.5	13.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.5	7.8	10.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.1	6.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.7
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	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	5.0
90°	0.0	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):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
2.5°	32.5	32.1	31.2	30.2	30.2	30.2	31.6	33.0	34.4	34.4
5°	30.2	30.2	29.8	28.9	28.9	29.3	31.2	33.4	35.3	35.7
7.5°	27.9	28.9	27.9	27.5	27.9	28.4	30.2	33.0	35.7	36.6
10°	26.6	27.0	27.0	26.6	26.6	27.5	29.3	33.0	36.6	38.0
12.5°	24.7	25.7	25.2	25.2	25.2	26.1	28.4	32.5	37.6	39.4
15°	22.9	24.3	24.3	23.8	23.8	24.3	27.5	32.1	38.9	42.1
17.5°	21.1	22.4	22.9	22.0	22.0	22.9	26.1	32.1	39.9	45.4
20°	17.4	19.7	21.1	19.7	19.7	20.6	23.8	30.2	40.3	48.6
22.5°	13.7	16.0	17.9	17.4	17.4	17.9	22.0	28.9	40.8	54.1
25°	10.1	12.4	13.7	14.7	14.7	16.0	20.2	27.9	42.6	65.5
27.5°	6.0	8.7	10.5	11.5	11.9	13.7	18.8	27.0	45.8	82.0
30°	2.7	5.0	7.3	9.2	9.2	12.4	17.4	26.1	49.9	105.8
32.5°	0.0	2.3	3.7	6.4	6.9	10.1	16.0	25.2	55.9	128.7
35°	0.0	0.0	1.8	5.0	5.0	8.2	14.7	24.3	65.1	146.1
37.5°	0.0	0.0	0.0	3.7	4.1	7.3	14.2	23.8	66.9	147.5
40°	0.0	0.0	0.0	2.7	3.2	6.9	14.2	24.3	60.5	144.3
42.5°	0.0	0.0	0.0	1.8	2.3	6.9	14.2	25.2	54.5	148.0
45°	0.0	0.0	0.0	1.4	1.8	7.3	13.7	24.7	51.3	167.2
47.5°	0.0	0.0	0.0	1.8	2.7	7.3	13.3	24.3	51.8	230.9
50°	0.0	0.0	0.0	2.3	3.2	7.3	13.7	23.4	56.8	355.0
52.5°	0.0	0.0	0.0	1.8	2.7	8.2	15.1	22.9	61.8	461.8
55°	0.0	0.0	0.0	0.5	1.4	10.5	16.5	22.9	69.6	488.3
57.5°	0.0	0.0	0.0	0.0	0.0	11.9	18.8	24.3	82.5	477.8
58°	0.0	0.0	0.0	0.0	0.0	11.9	19.2	24.3	83.4	468.6
60°	0.0	0.0	0.0	0.0	0.0	11.9	21.1	27.0	89.8	417.3
62.5°	0.0	0.0	0.0	0.0	0.0	10.1	25.2	33.9	93.5	328.0
65°	0.0	0.0	0.0	0.0	0.0	8.2	29.8	37.1	96.2	261.1
67.5°	0.0	0.0	0.0	0.0	0.0	7.8	30.7	37.6	97.6	208.0
70°	0.0	0.0	0.0	0.0	0.0	8.2	30.2	40.3	102.2	169.0
72.5°	0.0	0.0	0.0	0.0	0.0	9.2	27.5	44.4	102.2	149.8
75°	0.0	0.0	0.0	0.0	0.0	9.6	25.7	49.9	93.0	129.6
77.5°	0.0	0.0	0.0	0.0	0.0	9.2	25.2	58.2	82.9	106.7
80°	0.9	1.4	1.4	0.9	0.9	7.8	24.7	59.1	70.5	73.3
82.5°	2.7	3.7	3.2	2.3	2.3	6.9	22.0	49.5	36.6	31.6
85°	5.0	6.0	6.0	5.0	5.0	6.4	13.7	17.9	12.4	10.1
87.5°	6.9	7.8	7.8	6.9	6.9	6.4	6.0	5.5	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

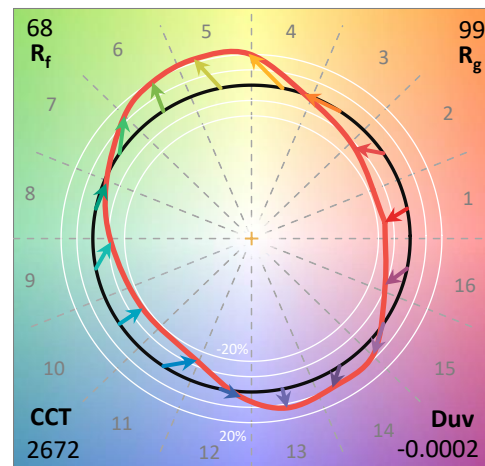
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

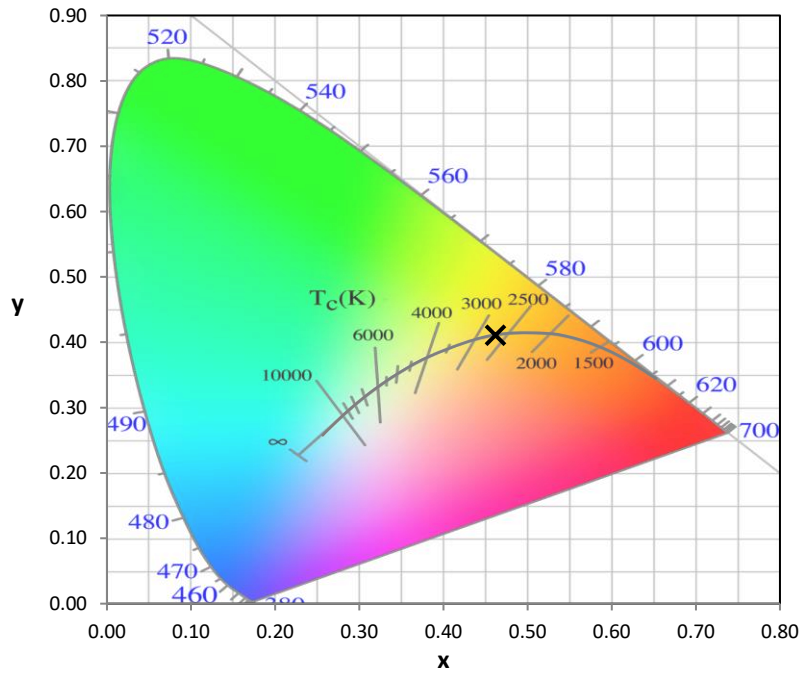
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

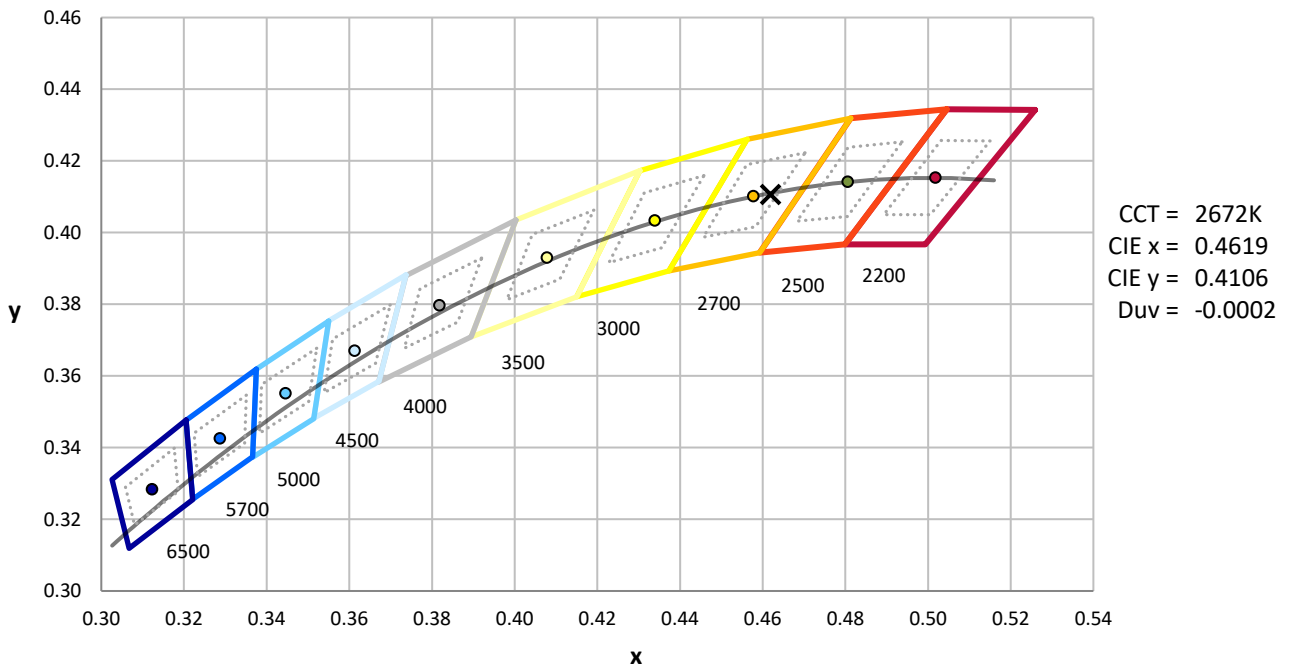
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



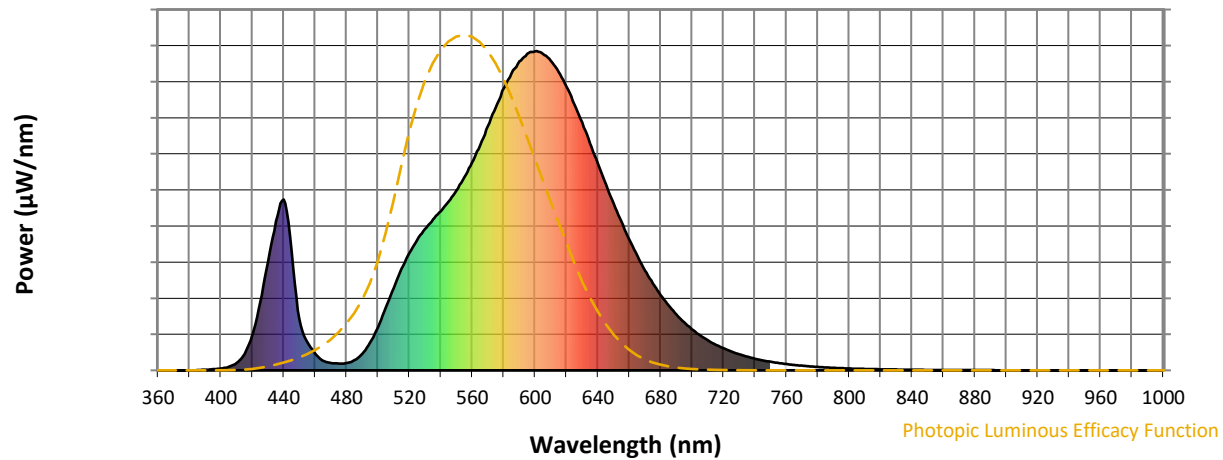
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

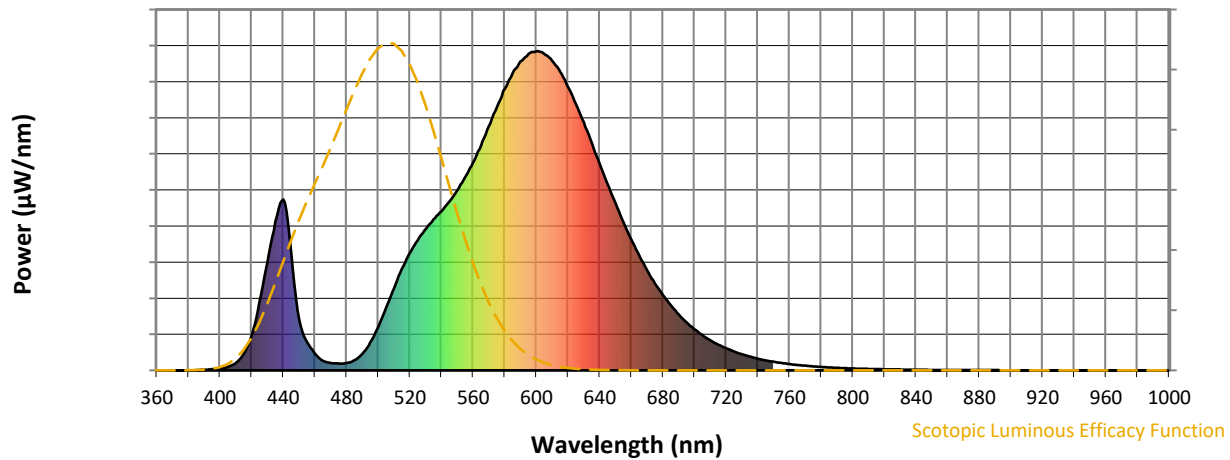


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



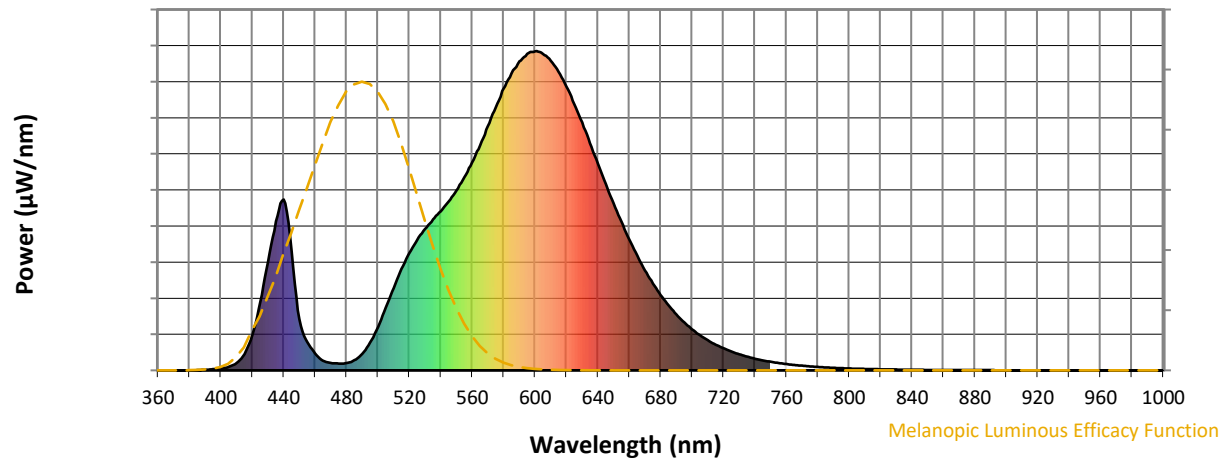
Scotopic Lumens: NR

S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

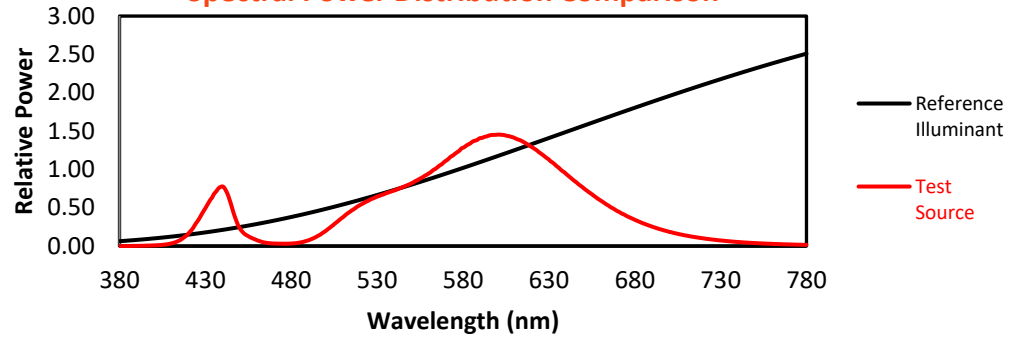
REPORT NUMBER: SP1-2407-184-3

TM-30-18

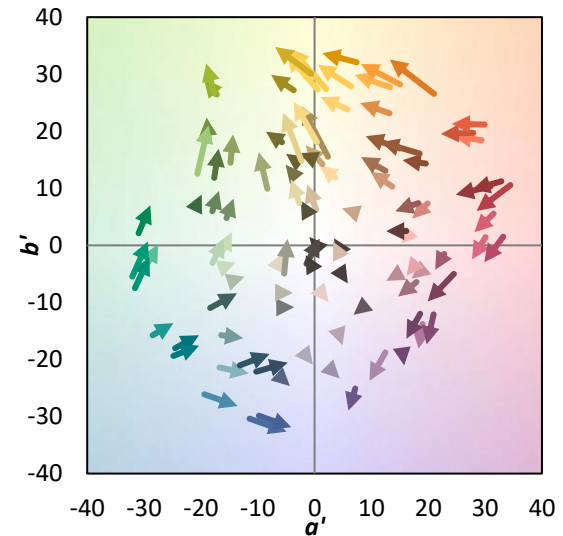
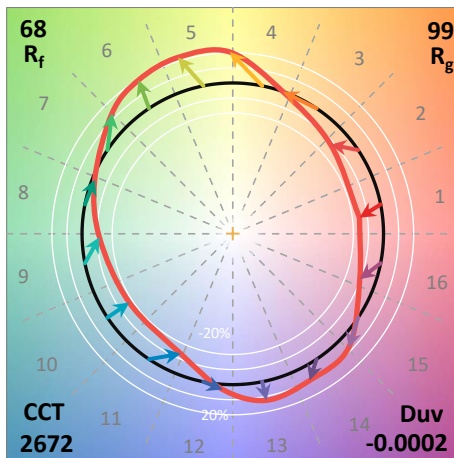
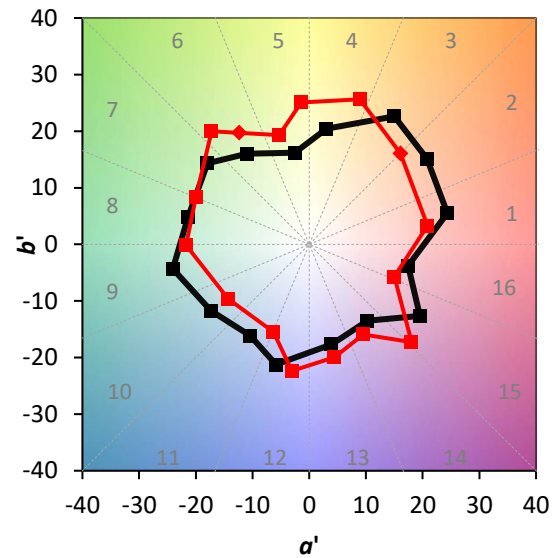
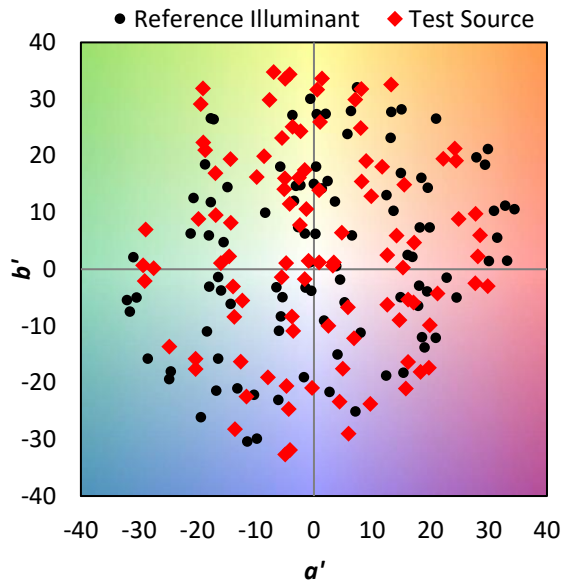
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

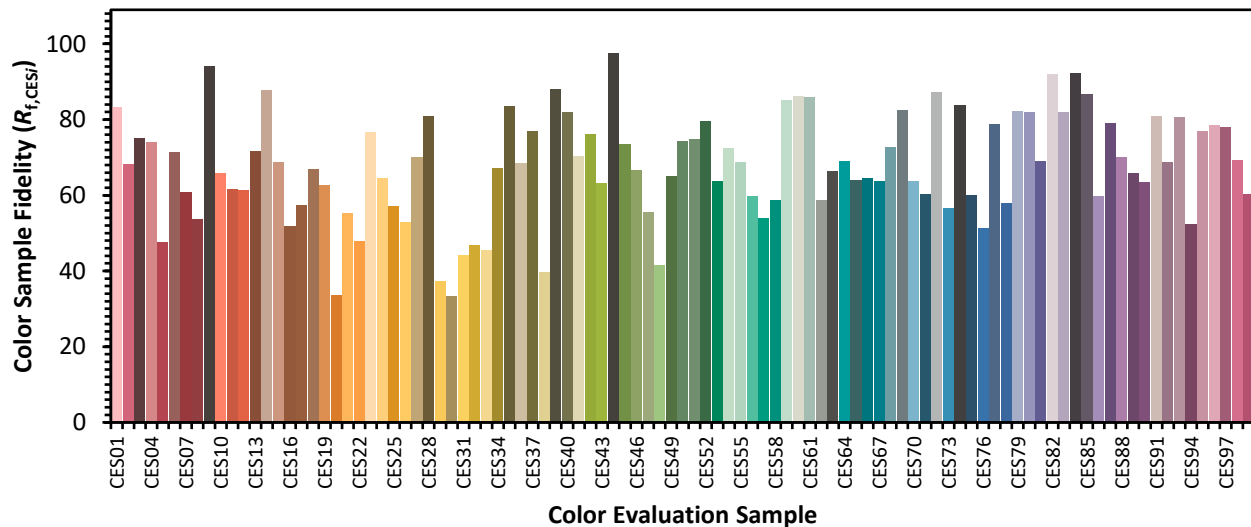


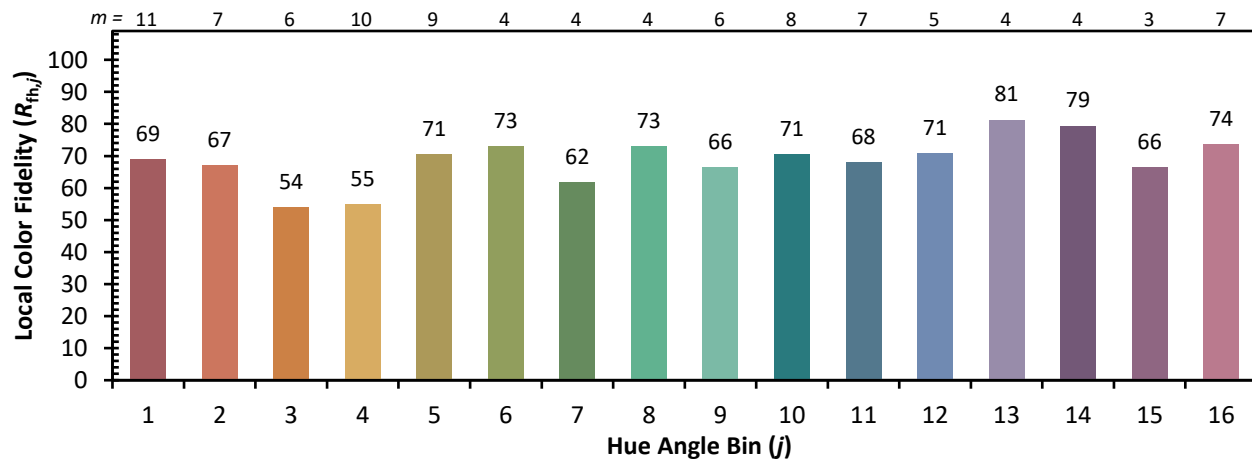
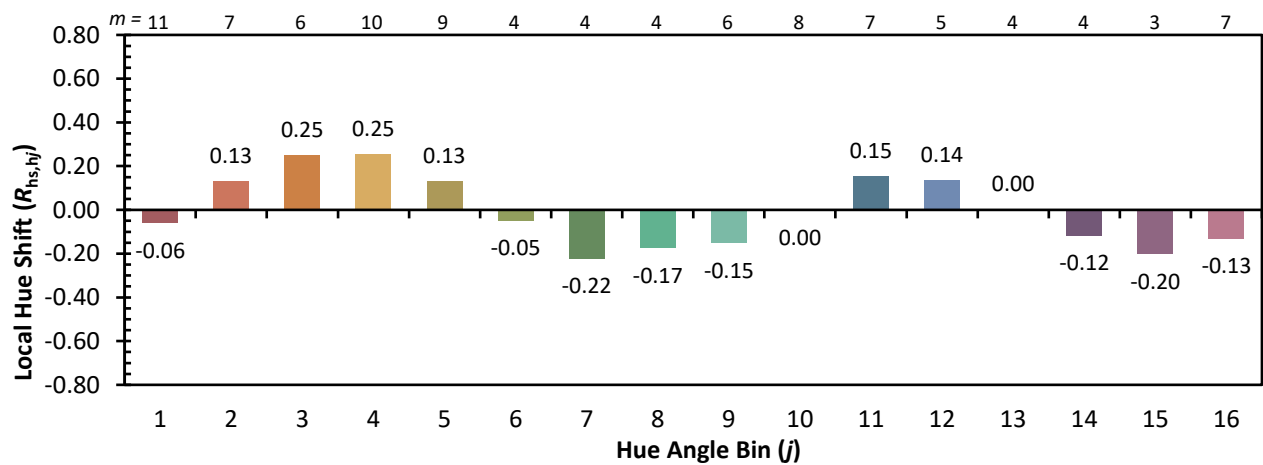
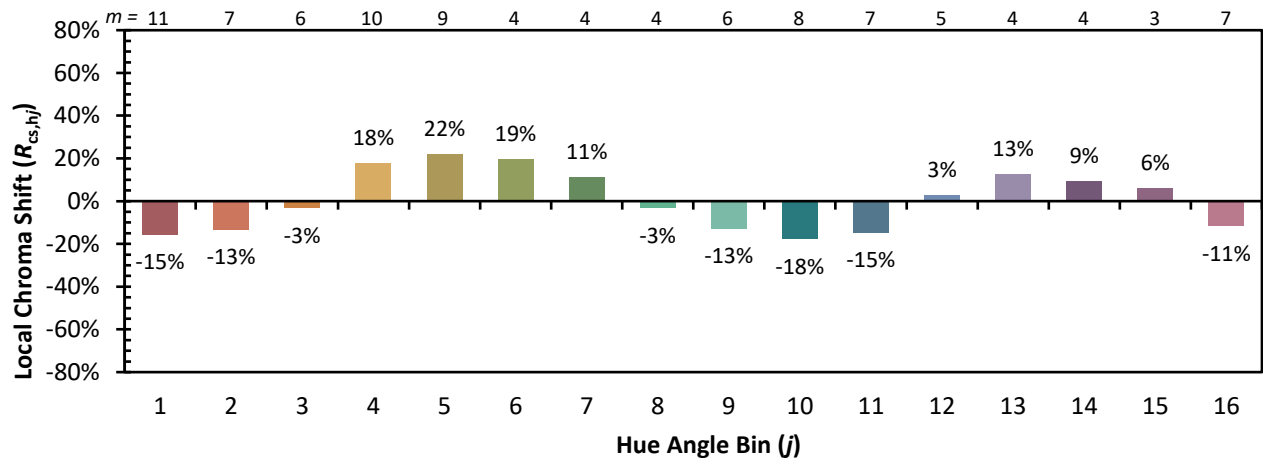
Color Vector Graphics

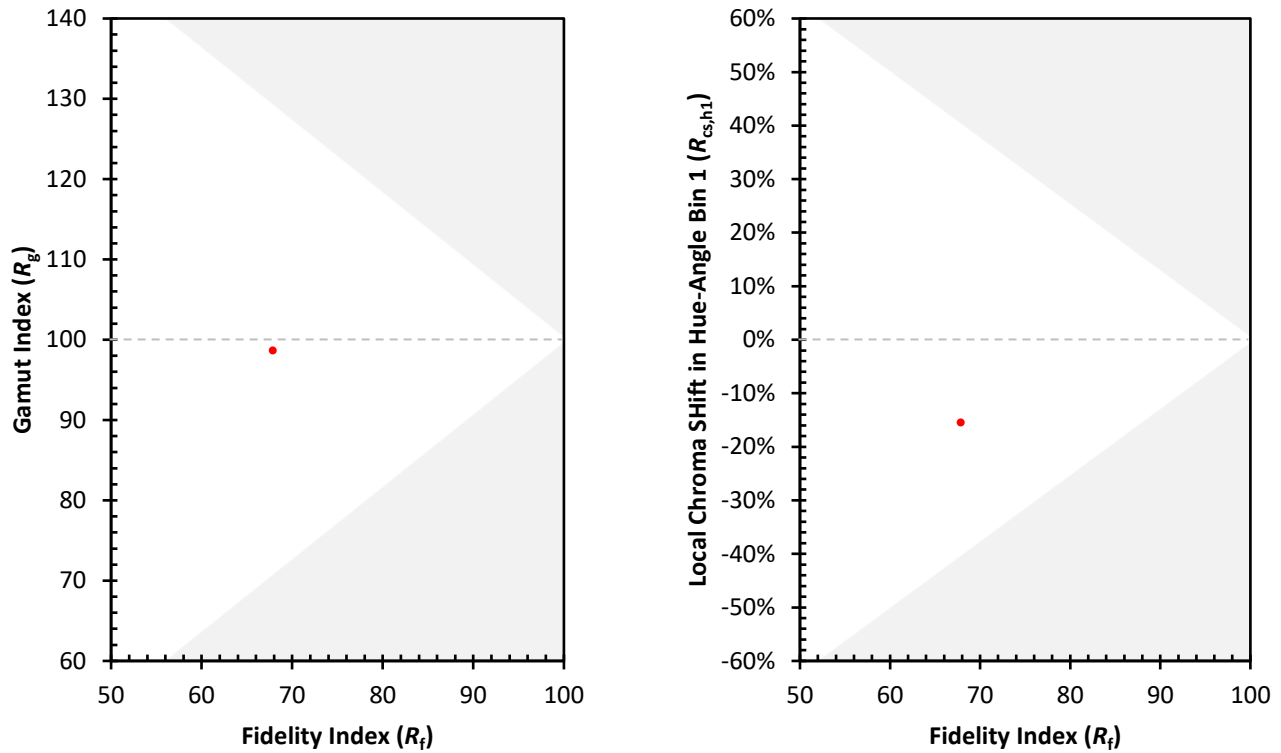


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin


Measure Comparisons


(END OF REPORT)