

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: STREETWORKS

Report Number: P1065353

Luminaire Tested: **GLAN-SA2A-827-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065353
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5739.9 lumens
Efficiency: N/A
Efficacy: 102.9 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

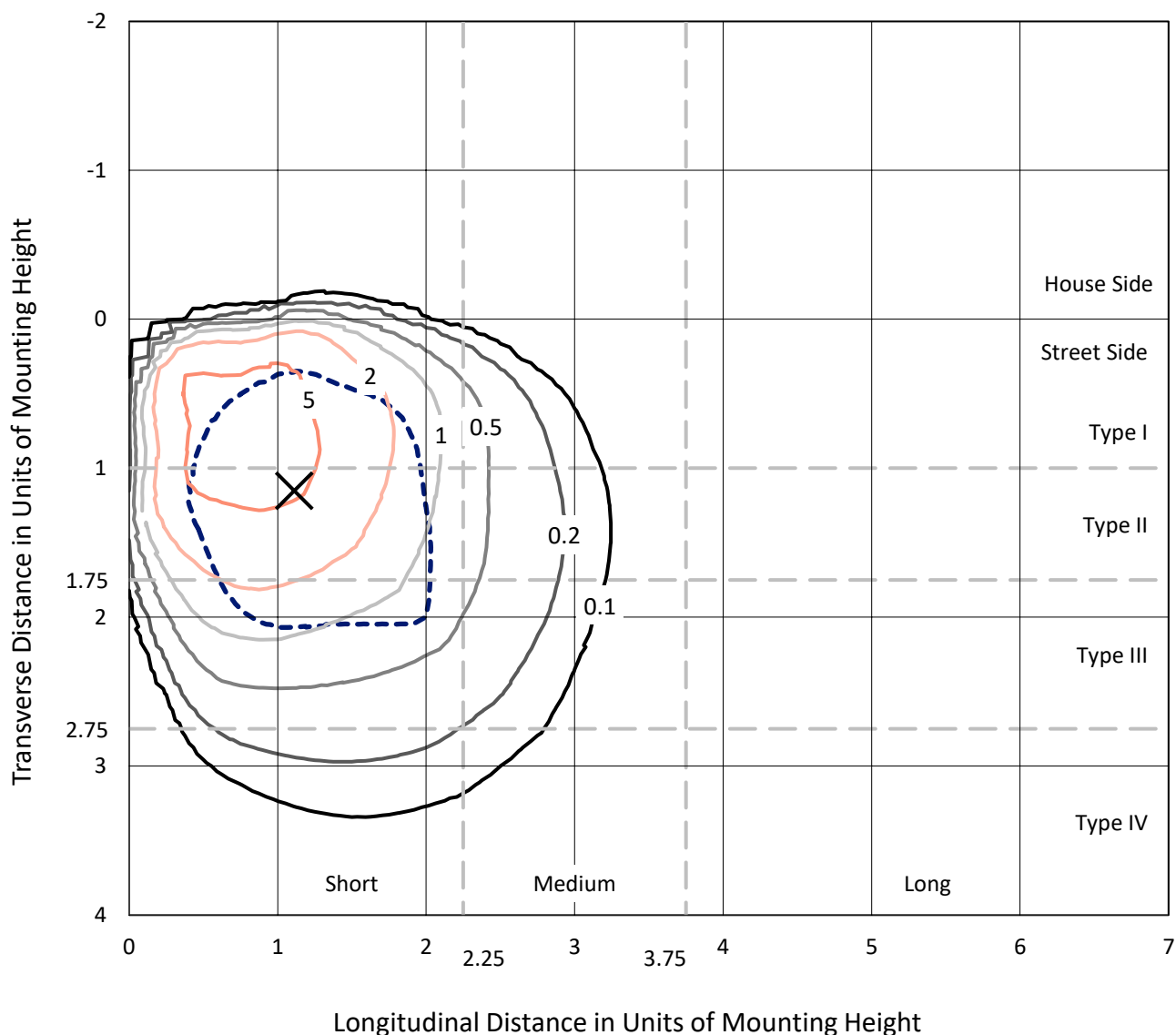
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

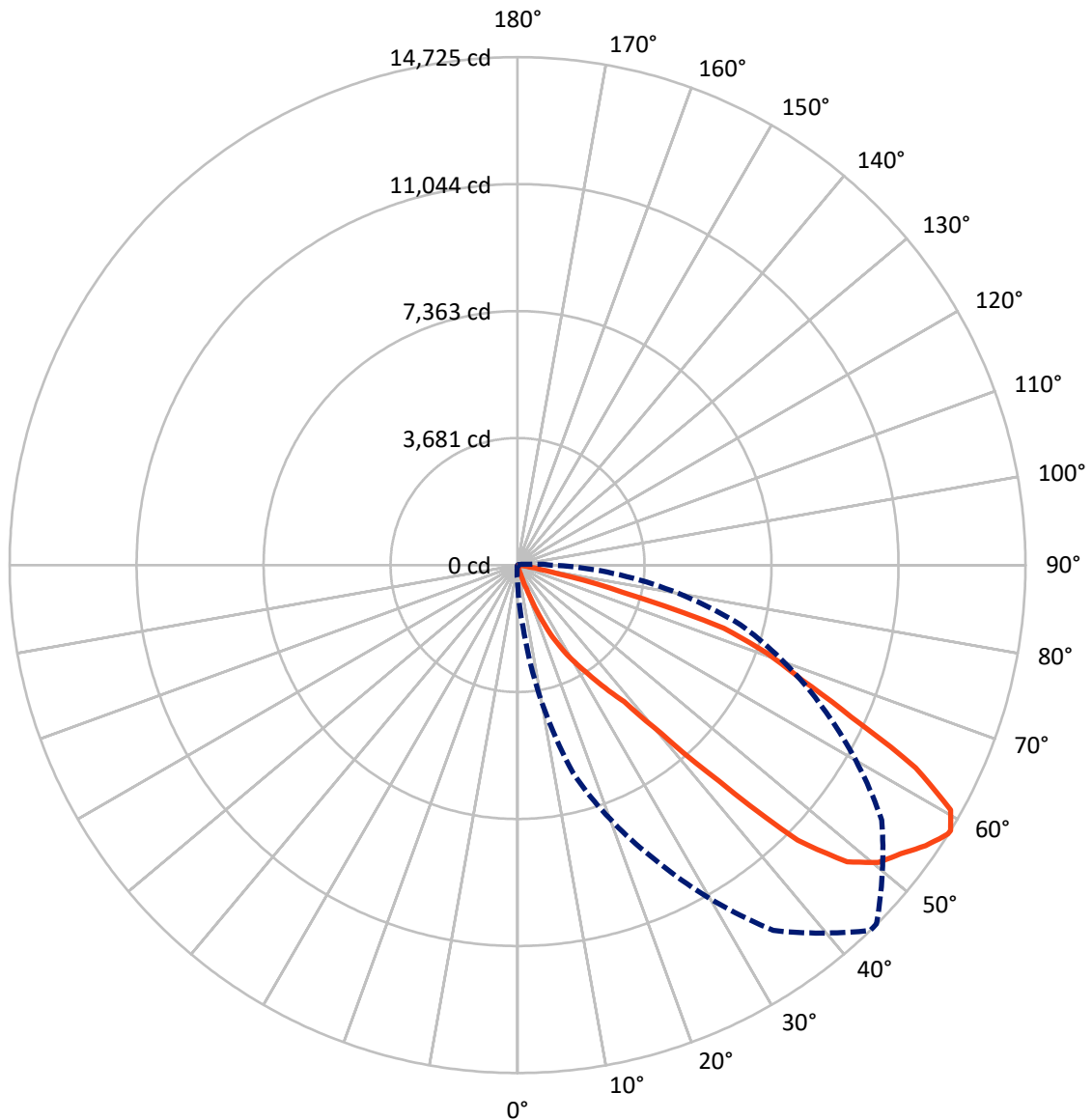


Based on 20 foot mounting height. Maximum calculated value = 10 fc

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	39.2	0.0	39.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	5700.7	0.0	5700.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	5739.9	0.0	5739.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.0
10°-20°	12.6	0.2
20°-30°	136.0	2.4
30°-40°	402.1	7.0
40°-50°	1198.6	20.9
50°-60°	1901.9	33.1
60°-70°	1586.4	27.6
70°-80°	489.3	8.5
80°-90°	10.9	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°	5739.9	100.0
0°-180°	5739.9	100.0

Coefficient of Utilization



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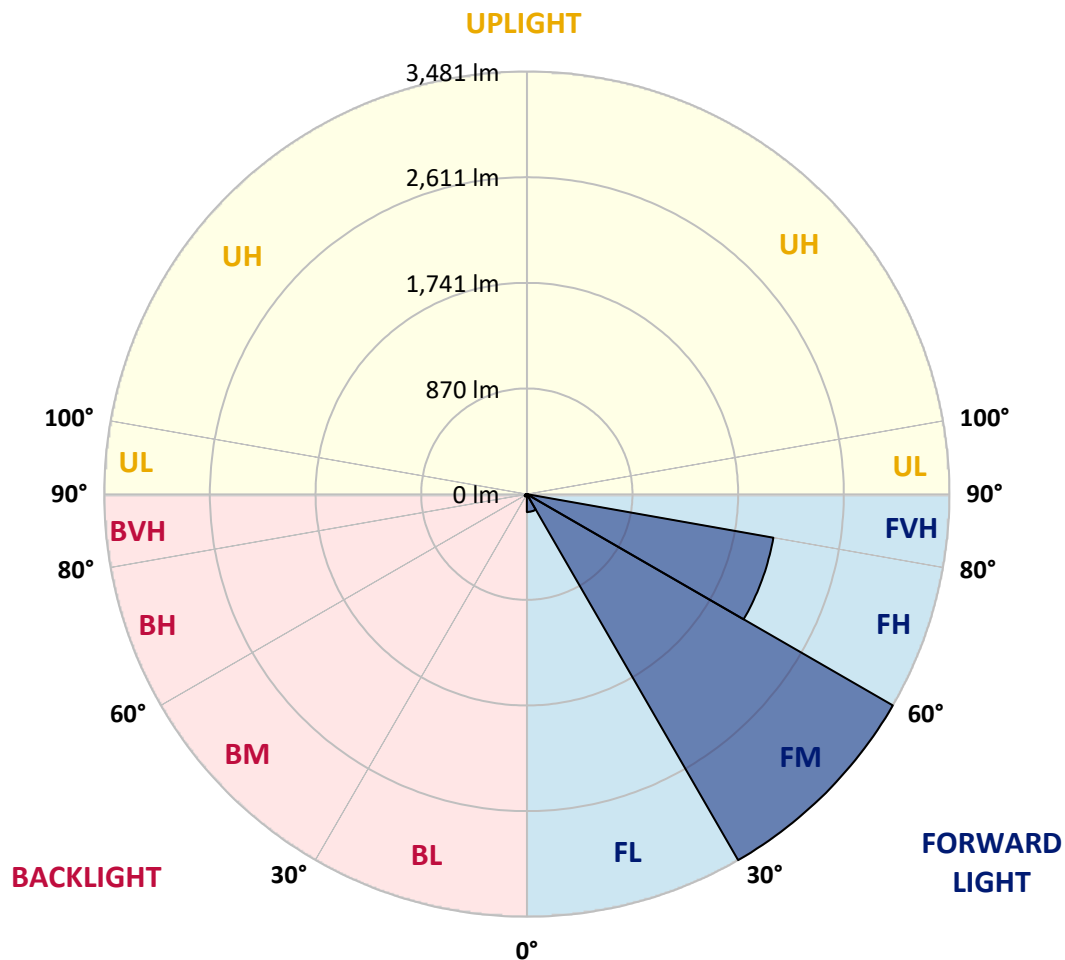
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	147.0	2.6			
FM	(30°-60°)	3481.1	60.6			
FH	(60°-80°)	2062.3	35.9			G2/5000
FVH	(80°-90°)	10.3	0.2			G1/100
BL	(0°-30°)	3.8	0.1	B0/110		
BM	(30°-60°)	21.4	0.4	B0/220		
BH	(60°-80°)	13.4	0.2	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
2.5°	32.5	32.5	31.2	29.5	27.8	26.0	25.6	24.7	24.3	23.8
5°	33.8	33.8	33.4	32.1	30.4	29.1	29.1	27.8	26.9	26.0
7.5°	34.7	35.1	36.0	35.6	34.7	33.4	33.4	32.5	31.2	29.1
10°	36.0	37.3	39.0	39.9	40.3	40.3	39.9	39.5	37.3	34.3
12.5°	37.3	39.9	44.2	48.6	51.2	54.6	54.2	53.3	47.7	41.2
15°	39.9	43.8	52.9	65.5	85.0	97.1	101.9	97.6	78.9	55.5
17.5°	42.9	49.4	76.7	137.0	224.6	266.2	291.4	271.0	179.5	105.4
20°	46.0	60.3	142.7	355.1	582.8	718.9	756.6	697.7	447.9	200.8
22.5°	51.2	84.6	289.2	734.1	1255.7	1459.9	1498.5	1309.9	846.0	396.3
25°	62.0	122.7	498.6	1196.3	1874.0	2218.7	2202.7	1955.5	1372.4	633.1
27.5°	77.6	178.6	754.0	1699.7	2466.3	2770.3	2806.7	2501.0	1829.4	930.9
30°	100.2	247.6	1028.1	2103.0	2941.1	3269.8	3275.9	2959.8	2238.3	1192.4
32.5°	121.8	312.6	1267.9	2492.8	3409.0	3769.3	3796.2	3407.2	2543.5	1464.7
35°	138.3	355.1	1510.7	2835.3	3880.7	4377.2	4375.5	3913.7	2905.1	1708.0
37.5°	139.6	397.6	1730.5	3185.7	4478.2	5034.1	5089.2	4580.1	3342.2	2008.9
40°	136.6	445.3	2008.9	3732.0	5554.9	6407.8	6456.3	5814.6	4219.0	2524.0
42.5°	140.1	528.1	2460.7	4741.0	7342.6	8567.5	8661.2	7986.5	5830.7	3575.1
45°	158.3	683.8	3407.2	6429.0	9890.9	11384.2	11353.0	10381.3	7706.0	5175.0
47.5°	218.5	1064.9	4810.4	8071.9	11519.5	12849.4	12876.3	11688.6	8800.4	6405.2
50°	336.0	1629.5	5989.3	8940.4	12219.8	13554.0	13528.8	12156.5	9216.2	7010.9
52.5°	437.1	2037.9	6580.8	9245.3	12309.5	13902.2	13900.4	12279.6	9280.8	7062.9
55°	462.2	2068.7	6585.6	9261.7	12510.7	14357.9	14415.1	12582.7	9364.5	6835.7
57.5°	452.2	1831.5	6310.6	9357.1	12868.9	14710.4	14713.4	12876.3	9577.0	6696.6
58°	443.6	1794.2	6255.1	9411.3	12930.5	14725.1	14717.8	12889.7	9750.0	6691.4
60°	395.0	1557.9	6038.8	9549.7	12839.0	14422.5	14353.5	12596.1	9724.4	6638.0
62.5°	310.5	1215.4	5825.9	9389.7	11858.2	12957.3	12986.0	11151.8	8865.0	6327.1
65°	247.2	905.8	5381.9	8236.3	9764.7	10640.6	10747.3	9068.4	7399.4	5357.6
67.5°	196.9	654.7	4514.7	6557.4	7726.8	8880.6	8958.2	7613.6	5732.7	4104.9
70°	160.0	442.7	3116.3	4795.6	6373.1	7670.4	7675.2	6325.0	4278.8	2689.6
72.5°	141.8	306.6	1809.0	3497.4	5167.7	6250.4	6124.2	5132.6	3288.4	1593.1
75°	122.7	203.4	887.2	2138.1	3133.2	3154.5	3202.6	2380.9	1643.8	757.5
77.5°	101.0	144.4	349.5	584.1	939.6	1202.8	1247.5	945.3	546.8	186.4
80°	69.4	68.5	94.1	179.1	268.8	336.9	314.4	243.3	143.1	71.5
82.5°	29.9	32.5	42.5	51.2	41.6	40.3	38.6	24.7	19.1	14.7
85°	9.5	8.7	9.1	9.1	7.4	5.6	5.6	2.6	0.0	0.0
87.5°	4.8	3.9	3.9	3.5	2.2	0.9	0.4	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°
25.1	0°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
23.4	2.5°	23.0	23.0	22.1	21.2	20.8	19.9	19.5	19.1	18.6	18.2
25.1	5°	24.3	23.8	22.5	21.2	19.9	18.6	17.8	16.9	16.0	15.6
27.8	7.5°	26.4	25.6	23.0	20.8	19.1	17.3	16.5	15.2	14.3	13.0
30.8	10°	29.1	27.3	23.8	21.2	18.6	16.5	15.2	13.9	12.6	10.8
35.1	12.5°	32.5	29.5	25.1	20.8	17.8	15.2	13.9	12.1	10.8	9.5
40.8	15°	35.6	31.7	25.6	20.8	16.9	13.9	12.1	10.4	9.1	7.4
51.2	17.5°	39.9	33.4	25.1	19.5	15.6	12.1	10.4	9.1	6.9	4.3
75.9	20°	47.3	34.7	24.3	18.2	13.4	10.0	7.8	6.1	3.0	0.9
114.0	22.5°	59.0	38.2	23.4	16.5	11.7	7.8	5.2	2.2	0.0	0.0
173.4	25°	81.5	44.2	23.4	15.6	10.4	5.6	1.7	0.0	0.0	0.0
246.3	27.5°	108.4	52.5	23.4	13.4	8.2	3.0	0.0	0.0	0.0	0.0
335.6	30°	135.7	61.6	23.4	11.7	6.5	0.4	0.0	0.0	0.0	0.0
413.2	32.5°	161.7	69.4	23.8	10.0	4.3	0.0	0.0	0.0	0.0	0.0
520.8	35°	188.2	70.7	23.4	8.7	2.6	0.0	0.0	0.0	0.0	0.0
652.6	37.5°	222.0	68.1	22.1	7.8	1.3	0.0	0.0	0.0	0.0	0.0
858.5	40°	273.2	69.4	20.8	7.4	0.4	0.0	0.0	0.0	0.0	0.0
1225.8	42.5°	367.7	75.0	19.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0
1952.5	45°	635.7	100.6	17.3	7.8	0.0	0.0	0.0	0.0	0.0	0.0
2931.2	47.5°	1051.5	180.8	16.9	7.8	0.0	0.0	0.0	0.0	0.0	0.0
3530.8	50°	1342.0	227.6	17.8	8.2	0.0	0.0	0.0	0.0	0.0	0.0
3605.8	52.5°	1339.8	253.7	18.6	8.7	1.7	0.0	0.0	0.0	0.0	0.0
3323.6	55°	1191.1	258.4	19.9	9.5	5.6	0.0	0.0	0.0	0.0	0.0
2856.1	57.5°	995.6	235.9	23.0	11.7	10.4	0.0	0.0	0.0	0.0	0.0
2782.9	58°	960.9	225.5	23.8	12.1	11.3	0.0	0.0	0.0	0.0	0.0
2413.9	60°	787.4	183.8	30.4	15.2	15.2	0.0	0.0	0.0	0.0	0.0
1979.0	62.5°	543.7	160.4	34.7	19.5	15.6	0.0	0.0	0.0	0.0	0.0
1459.1	65°	384.6	144.8	37.7	20.8	12.6	0.0	0.0	0.0	0.0	0.0
1036.7	67.5°	287.5	133.5	41.6	21.2	6.5	0.0	0.0	0.0	0.0	0.0
650.4	70°	220.3	125.3	51.2	22.5	1.7	0.0	0.0	0.0	0.0	0.0
387.6	72.5°	179.5	115.8	62.0	23.4	0.0	0.0	0.0	0.0	0.0	0.0
232.4	75°	148.7	104.5	59.8	25.6	0.0	0.0	0.0	0.0	0.0	0.0
124.0	77.5°	98.9	81.1	54.6	25.6	0.0	0.0	0.0	0.0	0.0	0.0
44.2	80°	34.7	32.1	42.5	22.5	0.0	0.0	0.0	0.0	0.0	0.0
9.1	82.5°	5.2	4.3	6.1	7.8	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°
25.1	0°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
17.8	2.5°	17.8	17.8	17.3	17.8	17.8	18.6	20.8	23.8	27.3	28.6
15.2	5°	14.7	14.3	13.9	13.9	13.9	15.2	16.9	20.4	24.3	26.0
12.6	7.5°	12.1	11.7	11.3	10.8	10.8	11.7	13.9	17.8	21.7	23.4
10.4	10°	10.0	9.1	8.7	8.2	8.2	9.1	11.3	15.2	19.5	21.2
8.7	12.5°	8.2	6.9	6.1	5.6	5.2	6.5	8.7	12.1	16.9	19.1
6.5	15°	5.6	4.3	3.0	2.6	2.2	3.5	5.6	9.5	14.3	16.9
3.5	17.5°	3.0	1.3	0.4	0.0	0.0	0.9	2.6	6.9	11.7	13.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	8.7	10.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	5.2	7.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.5
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°
25.1	0°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
29.9	2.5°	30.8	30.4	29.5	28.6	28.6	28.6	29.9	31.2	32.5	32.5
26.9	5°	28.6	28.6	28.2	27.3	27.3	27.8	29.5	31.7	33.4	33.8
24.7	7.5°	26.4	27.3	26.4	26.0	26.4	26.9	28.6	31.2	33.8	34.7
23.0	10°	25.1	25.6	25.6	25.1	25.1	26.0	27.8	31.2	34.7	36.0
20.8	12.5°	23.4	24.3	23.8	23.8	23.8	24.7	26.9	30.8	35.6	37.3
18.6	15°	21.7	23.0	23.0	22.5	22.5	23.0	26.0	30.4	36.9	39.9
16.0	17.5°	19.9	21.2	21.7	20.8	20.8	21.7	24.7	30.4	37.7	42.9
13.0	20°	16.5	18.6	19.9	18.6	18.6	19.5	22.5	28.6	38.2	46.0
9.5	22.5°	13.0	15.2	16.9	16.5	16.5	16.9	20.8	27.3	38.6	51.2
5.6	25°	9.5	11.7	13.0	13.9	13.9	15.2	19.1	26.4	40.3	62.0
2.6	27.5°	5.6	8.2	10.0	10.8	11.3	13.0	17.8	25.6	43.4	77.6
0.0	30°	2.6	4.8	6.9	8.7	8.7	11.7	16.5	24.7	47.3	100.2
0.0	32.5°	0.0	2.2	3.5	6.1	6.5	9.5	15.2	23.8	52.9	121.8
0.0	35°	0.0	0.0	1.7	4.8	4.8	7.8	13.9	23.0	61.6	138.3
0.0	37.5°	0.0	0.0	0.0	3.5	3.9	6.9	13.4	22.5	63.3	139.6
0.0	40°	0.0	0.0	0.0	2.6	3.0	6.5	13.4	23.0	57.2	136.6
0.0	42.5°	0.0	0.0	0.0	1.7	2.2	6.5	13.4	23.8	51.6	140.1
0.0	45°	0.0	0.0	0.0	1.3	1.7	6.9	13.0	23.4	48.6	158.3
0.0	47.5°	0.0	0.0	0.0	1.7	2.6	6.9	12.6	23.0	49.0	218.5
0.0	50°	0.0	0.0	0.0	2.2	3.0	6.9	13.0	22.1	53.8	336.0
0.0	52.5°	0.0	0.0	0.0	1.7	2.6	7.8	14.3	21.7	58.5	437.1
0.0	55°	0.0	0.0	0.0	0.4	1.3	10.0	15.6	21.7	65.9	462.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	11.3	17.8	23.0	78.0	452.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	11.3	18.2	23.0	78.9	443.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	11.3	19.9	25.6	85.0	395.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	9.5	23.8	32.1	88.5	310.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	7.8	28.2	35.1	91.1	247.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	7.4	29.1	35.6	92.4	196.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	7.8	28.6	38.2	96.7	160.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	8.7	26.0	42.1	96.7	141.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	9.1	24.3	47.3	88.0	122.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	8.7	23.8	55.1	78.5	101.0
0.0	80°	0.9	1.3	1.3	0.9	0.9	7.4	23.4	55.9	66.8	69.4
0.4	82.5°	2.6	3.5	3.0	2.2	2.2	6.5	20.8	46.8	34.7	29.9
2.6	85°	4.8	5.6	5.6	4.8	4.8	6.1	13.0	16.9	11.7	9.5
4.8	87.5°	6.5	7.4	7.4	6.5	6.5	6.1	5.6	5.2	4.8	4.8
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

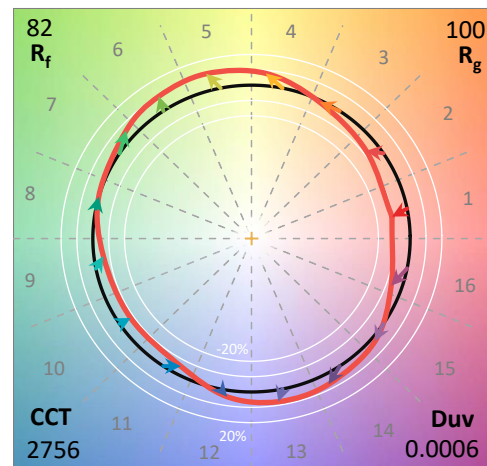
Test Information

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

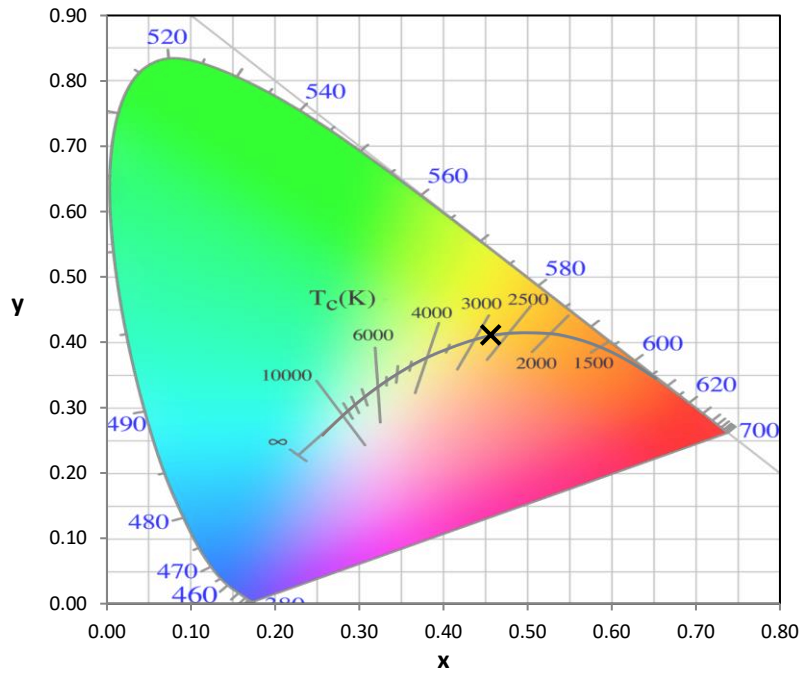
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

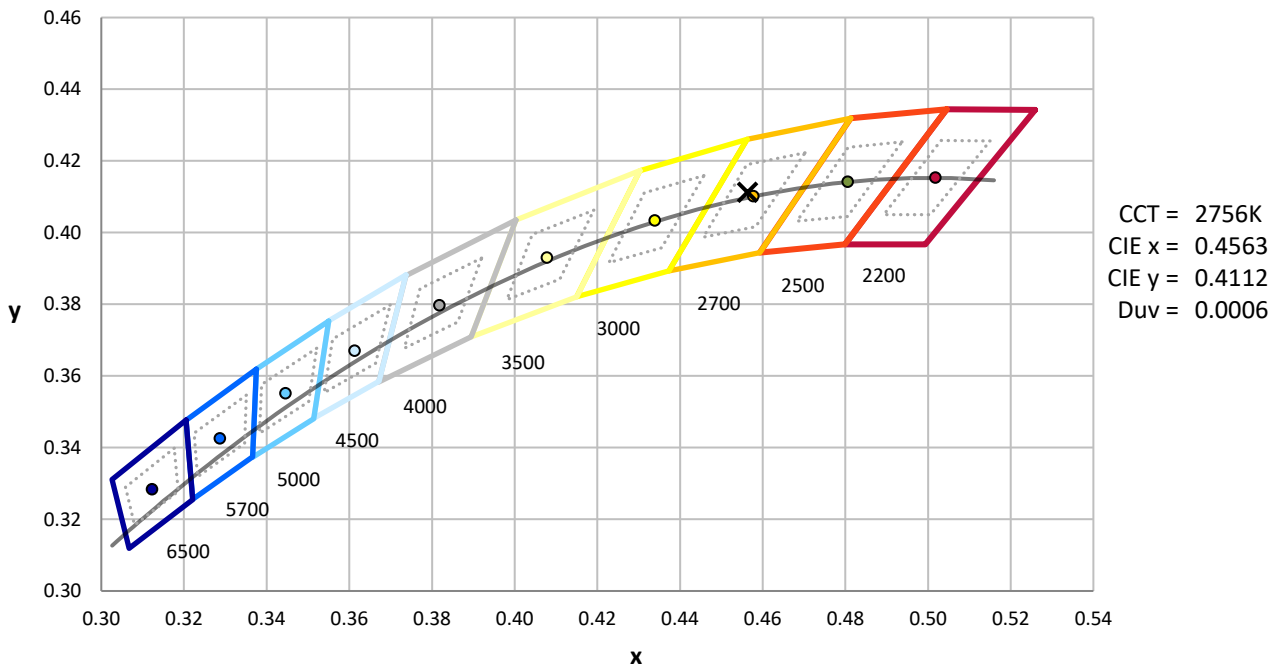
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



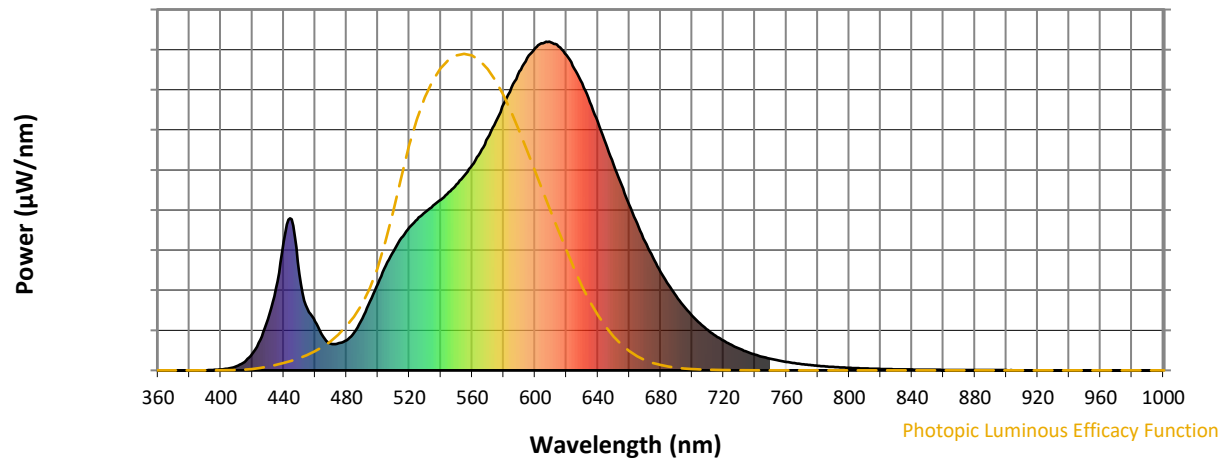
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

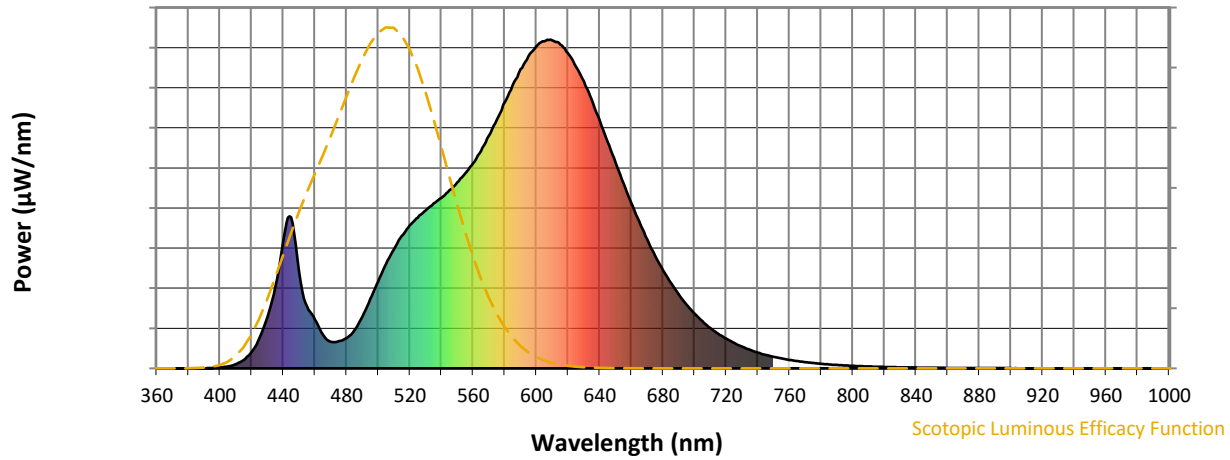


Photopic Lumens: NR

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



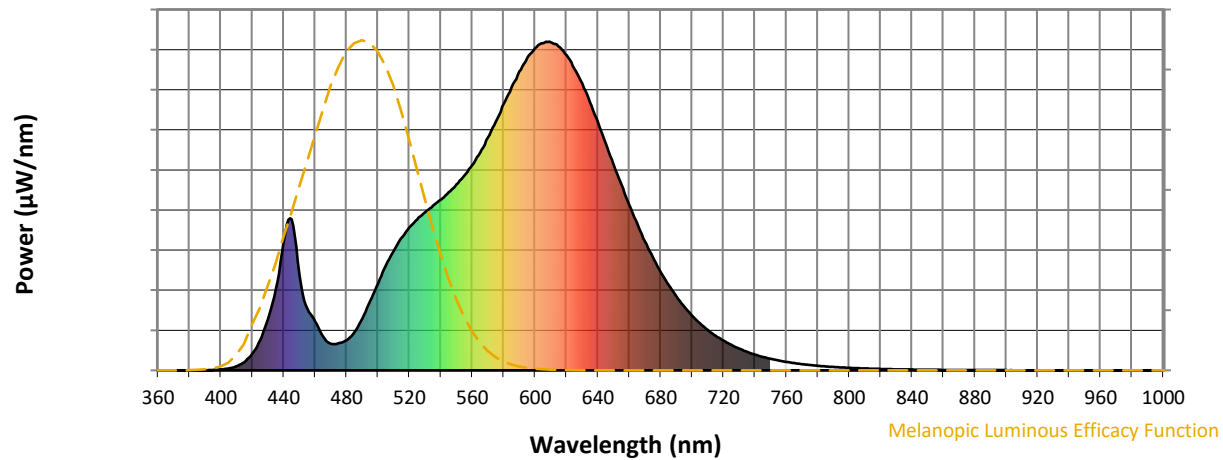
Scotopic Lumens: NR

S/P: 1.2

λ (nm)	Power 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	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

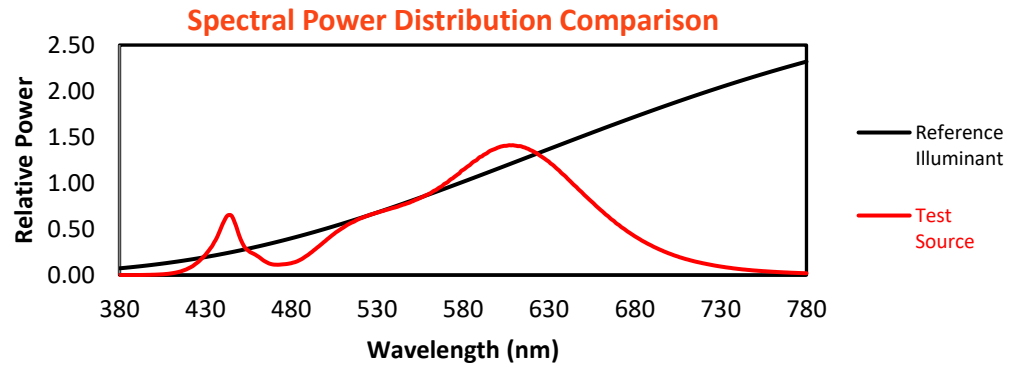
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	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			

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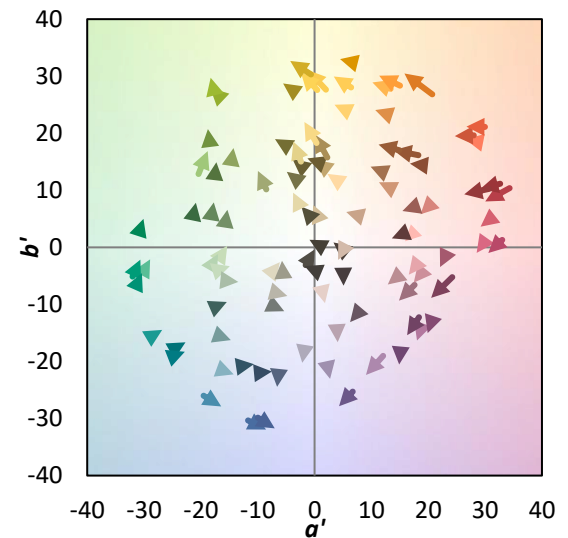
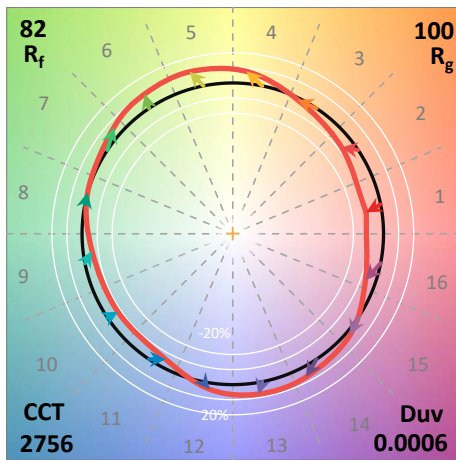
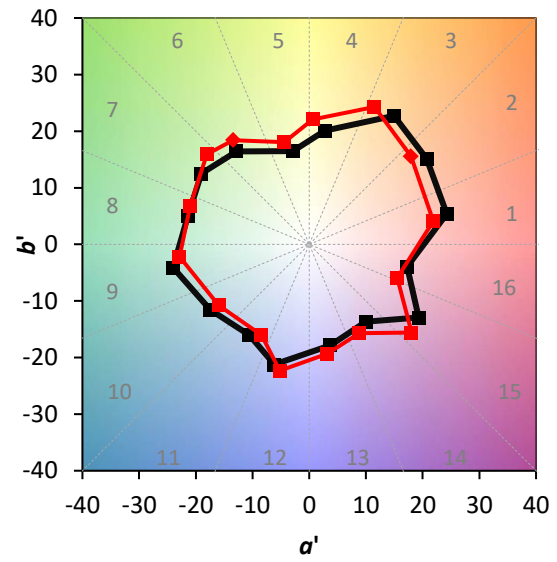
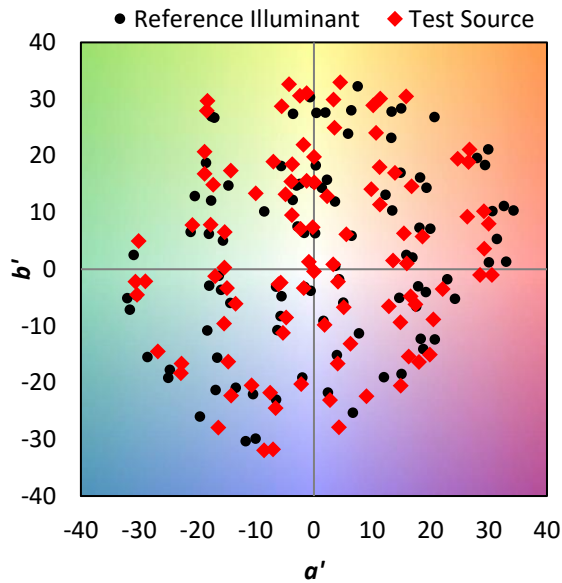
TM-30-18

Summary

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

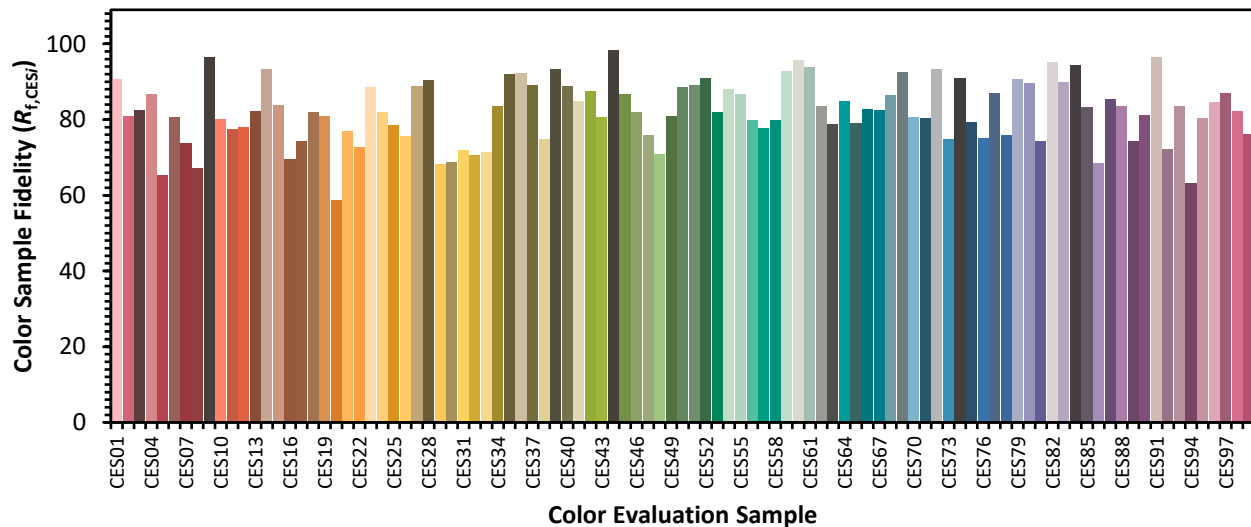


Color Vector Graphics

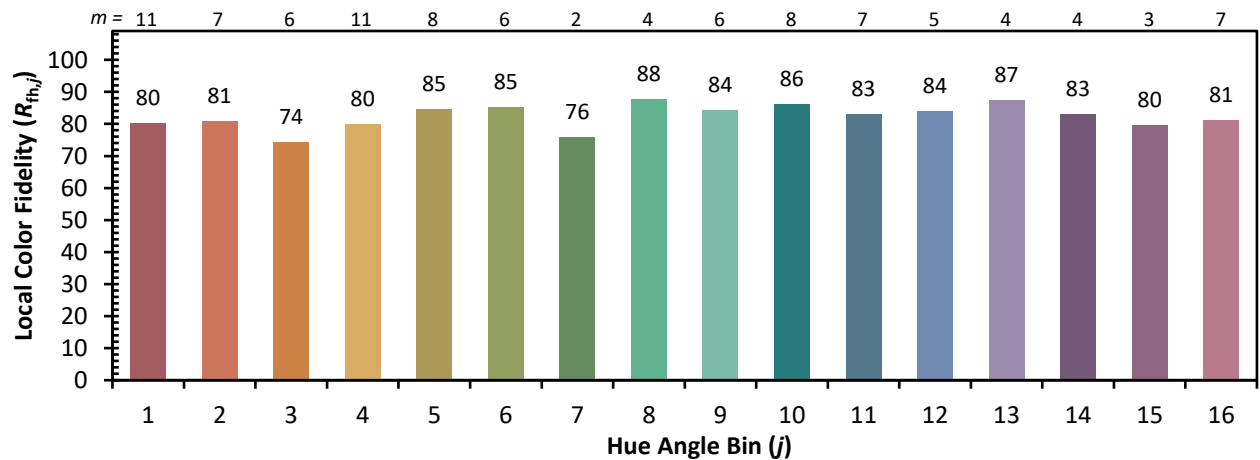
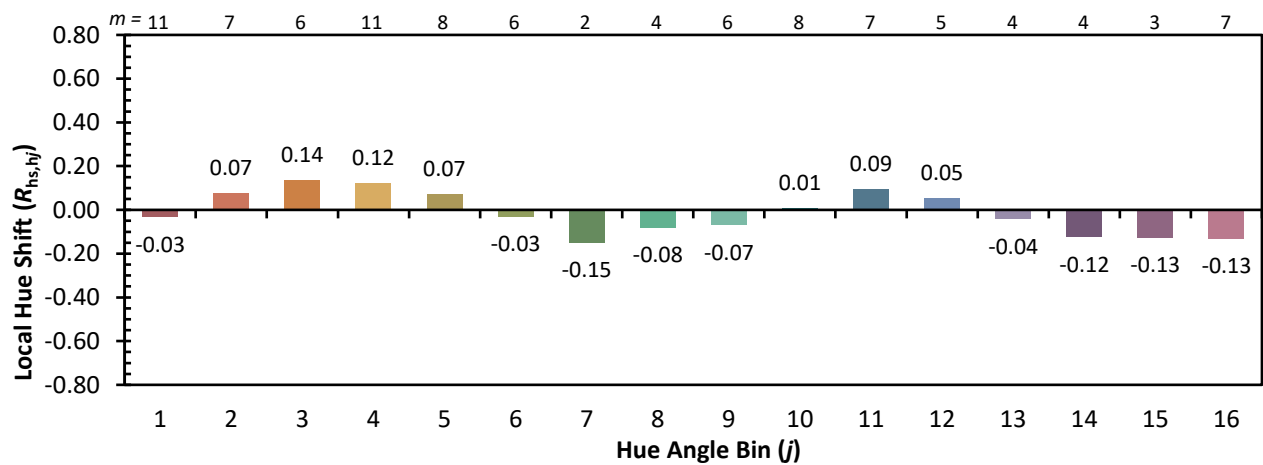
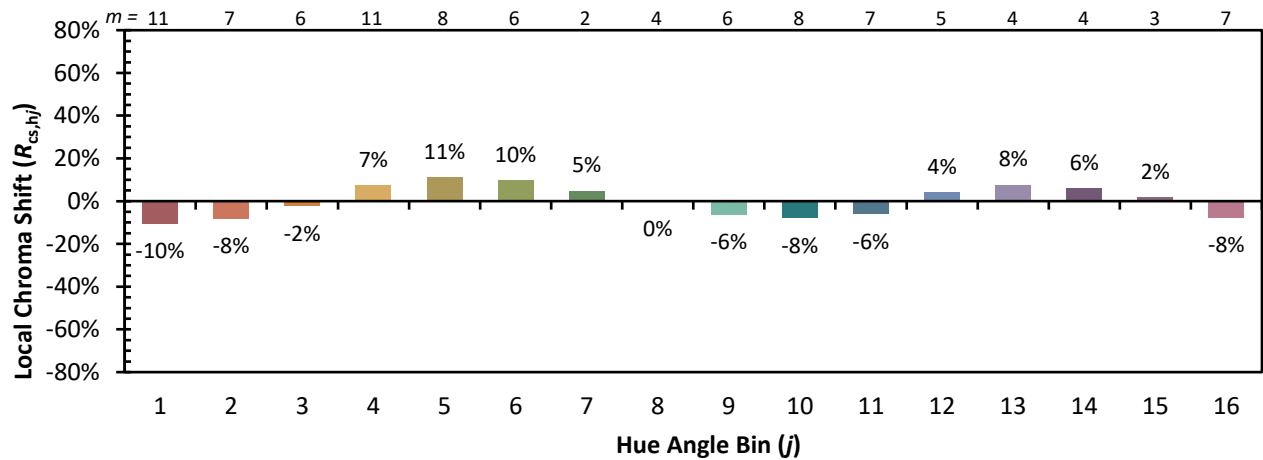


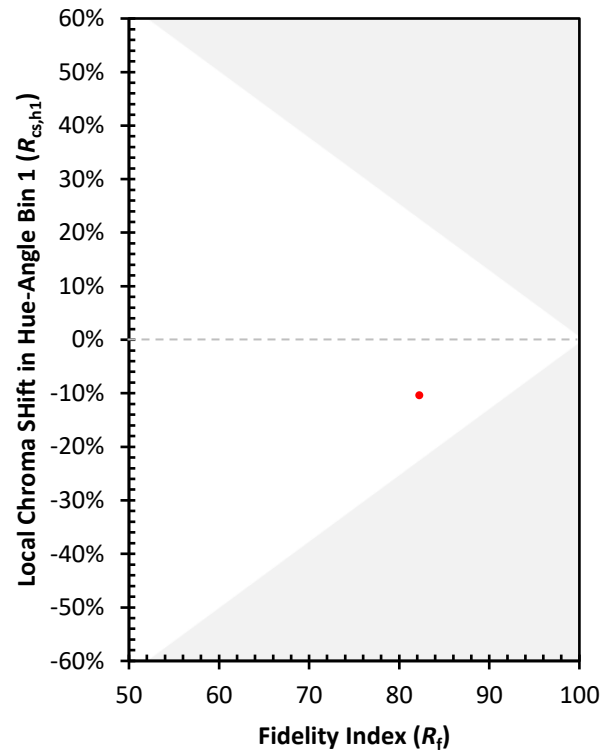
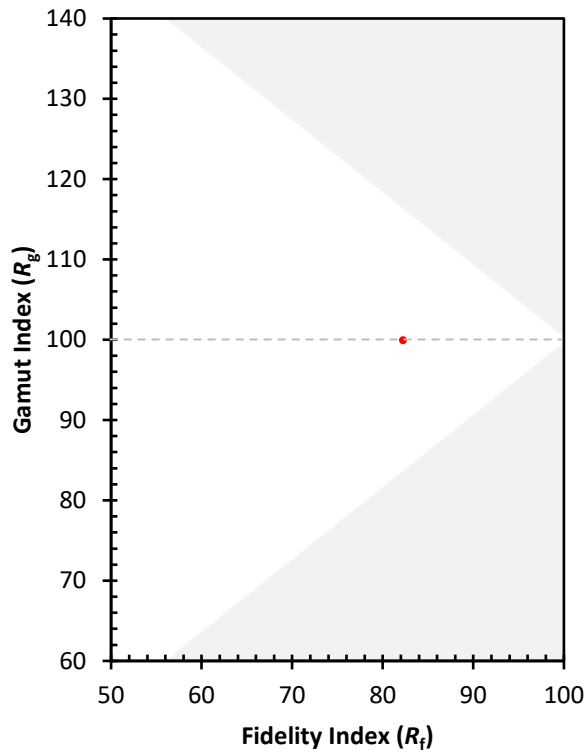
Individual Sample Fidelity Index ($R_{f,i}$)

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)