

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: P1049735

Luminaire Tested: **GALN-SA6C-827-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049735
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26025.7 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 282.5
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

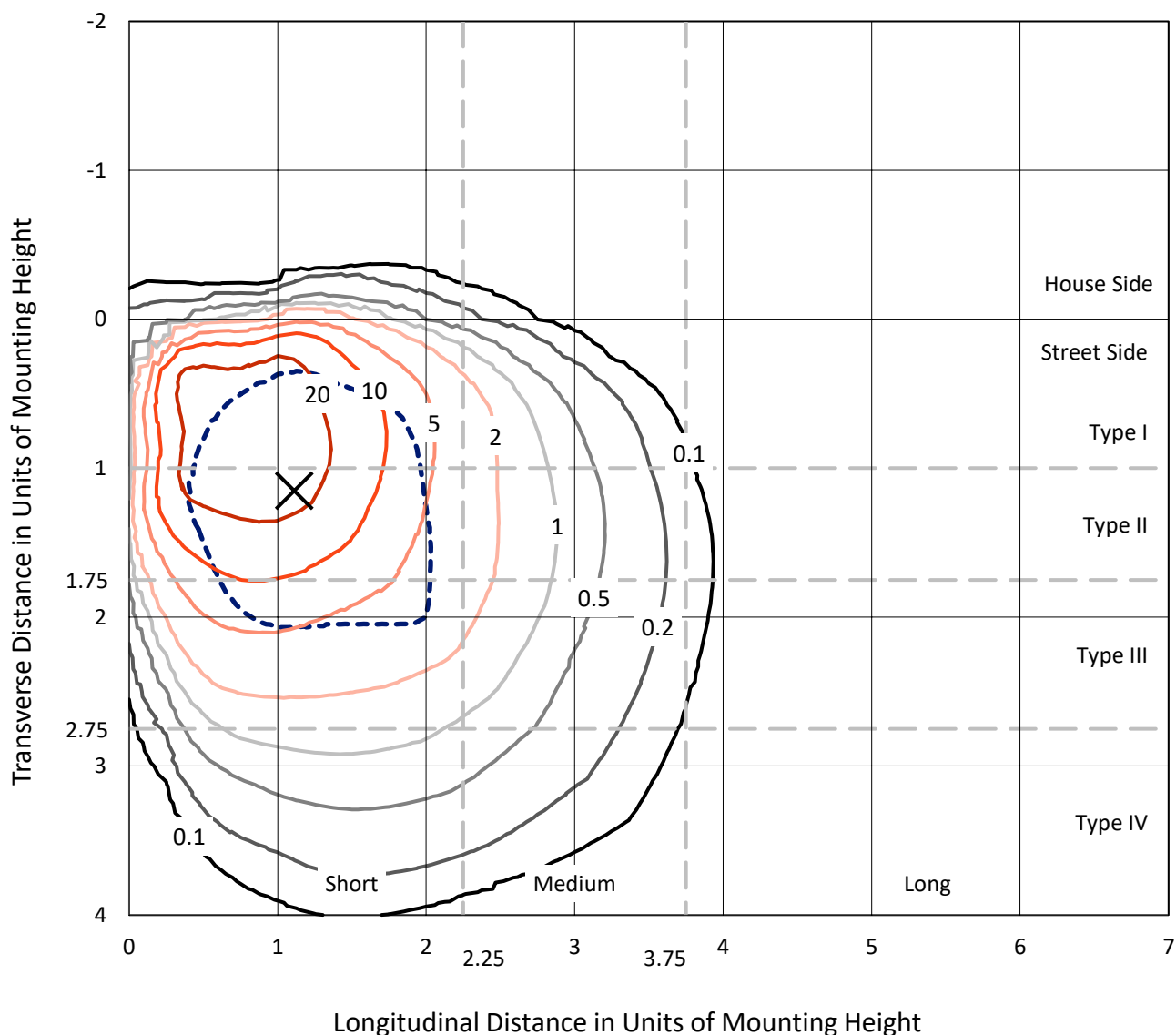
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

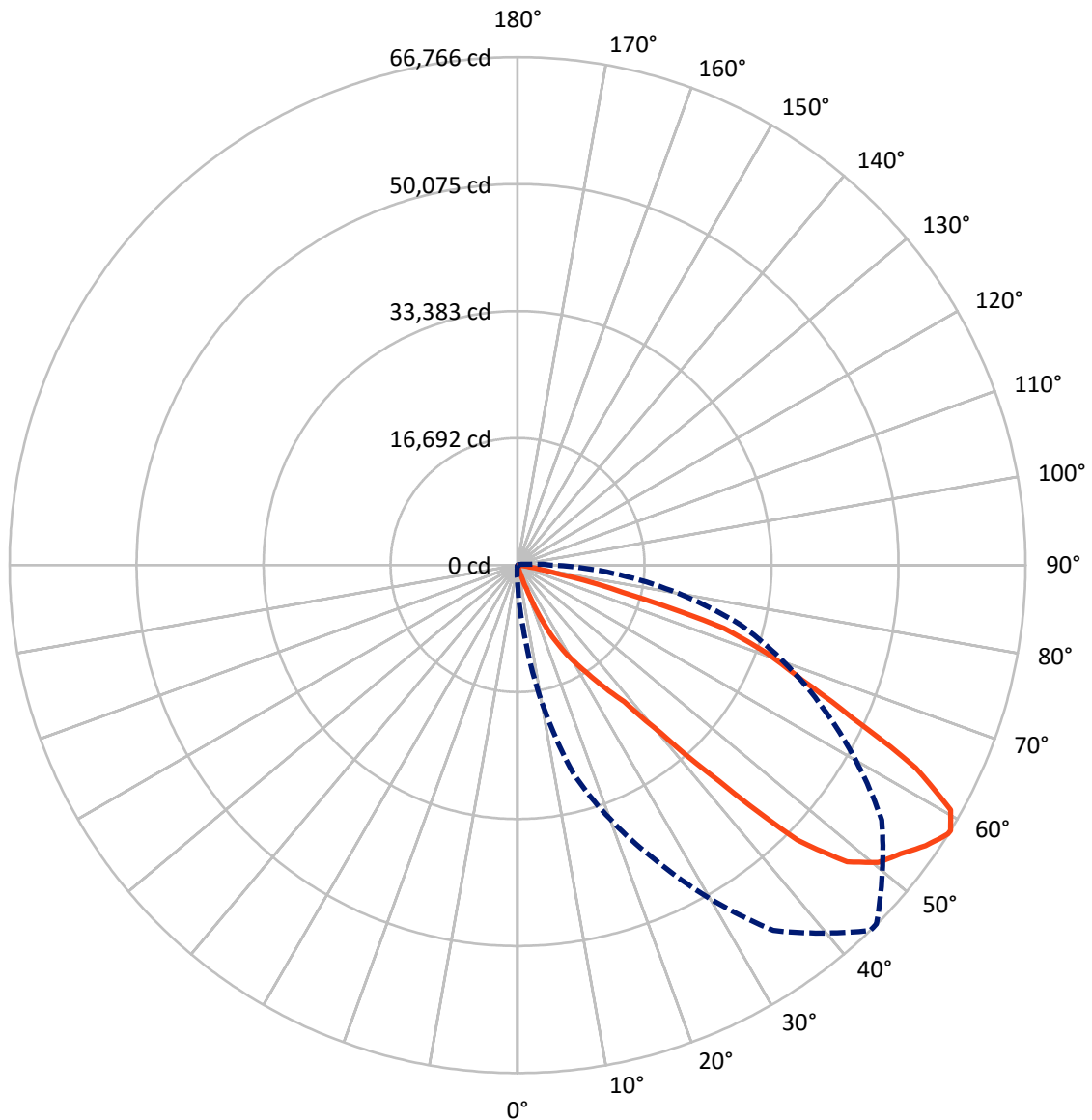


Based on 20 foot mounting height. Maximum calculated value = 45.3 fc

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	177.7	0.0	177.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	25848.0	0.0	25848.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	26025.7	0.0	26025.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	0.0
10°-20°	57.1	0.2
20°-30°	616.6	2.4
30°-40°	1823.4	7.0
40°-50°	5434.6	20.9
50°-60°	8623.4	33.1
60°-70°	7192.9	27.6
70°-80°	2218.4	8.5
80°-90°	49.3	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°	26025.7	100.0
0°-180°	26025.7	100.0



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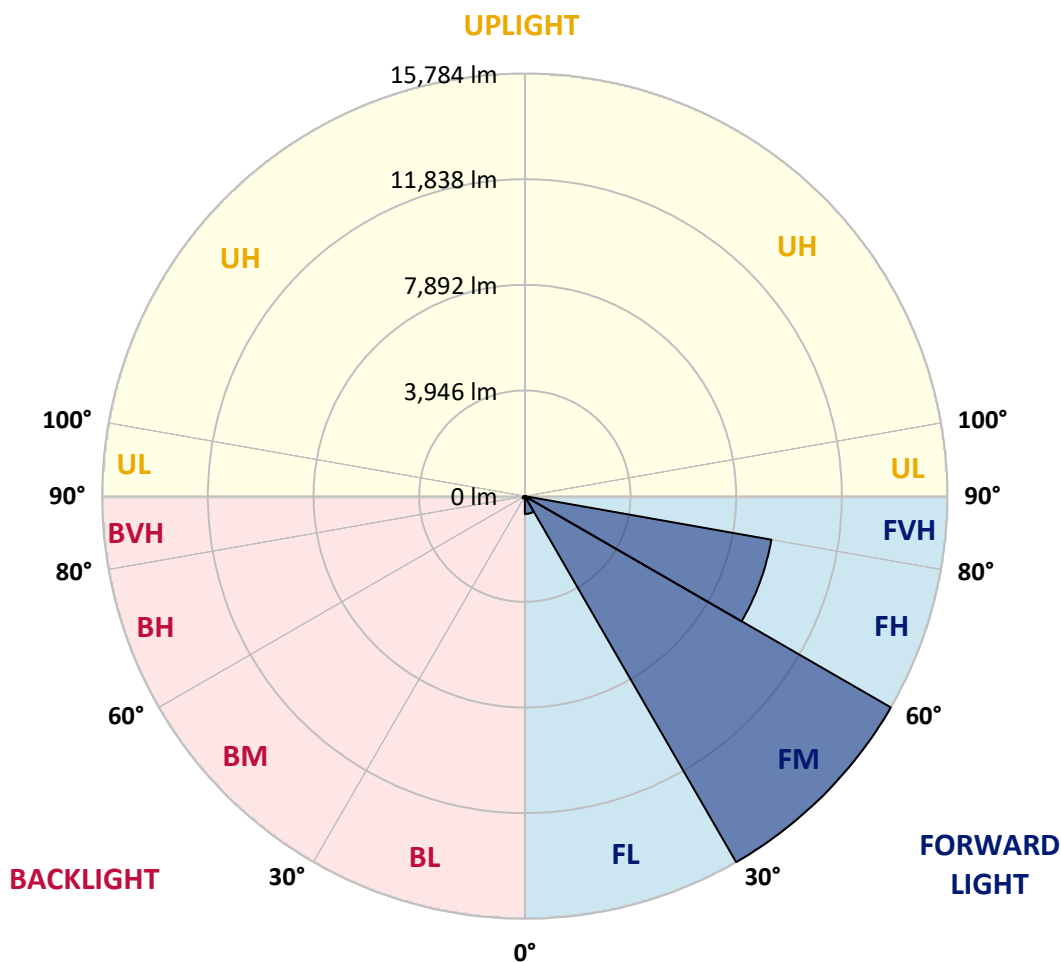
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	666.4	2.6			
FM	(30°-60°)	15784.1	60.6			
FH	(60°-80°)	9350.7	35.9			G4/12000
FVH	(80°-90°)	46.9	0.2			G1/100
BL	(0°-30°)	17.4	0.1	B0/110		
BM	(30°-60°)	97.3	0.4	B0/220		
BH	(60°-80°)	60.7	0.2	B0/110		G0/110
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0
2.5°	147.5	147.5	141.6	133.7	125.8	118.0	116.0	112.1	110.1	108.1
5°	153.3	153.3	151.4	145.5	137.6	131.7	131.7	125.8	121.9	118.0
7.5°	157.3	159.2	163.2	161.2	157.3	151.4	151.4	147.5	141.6	131.7
10°	163.2	169.1	176.9	180.9	182.8	182.8	180.9	178.9	169.1	155.3
12.5°	169.1	180.9	200.5	220.2	232.0	247.7	245.8	241.8	216.3	186.8
15°	180.9	198.6	239.9	296.9	385.3	440.4	462.0	442.4	357.8	251.7
17.5°	194.6	224.1	348.0	621.3	1018.4	1207.1	1321.2	1228.8	813.9	477.7
20°	208.4	273.3	646.8	1610.2	2642.3	3259.7	3430.7	3163.3	2030.9	910.3
22.5°	232.0	383.4	1311.3	3328.5	5693.6	6619.6	6794.6	5939.4	3835.7	1796.9
25°	281.1	556.4	2260.9	5424.3	8497.1	10060.1	9987.4	8866.8	6222.5	2870.4
27.5°	351.9	810.0	3418.9	7706.8	11182.7	12560.9	12726.1	11340.0	8294.6	4221.0
30°	454.2	1122.6	4661.4	9535.2	13335.5	14825.8	14853.3	13420.1	10148.6	5406.6
32.5°	552.5	1417.5	5748.6	11302.7	15456.9	17090.6	17212.5	15449.0	11532.7	6641.2
35°	627.2	1610.2	6849.6	12855.8	17595.9	19847.0	19839.1	17745.3	13172.3	7744.2
37.5°	633.1	1802.8	7846.4	14444.4	20305.1	22825.5	23075.2	20767.1	15154.1	9108.6
40°	619.3	2019.1	9108.6	16921.6	25186.7	29053.9	29274.1	26364.4	19129.4	11444.2
42.5°	635.0	2394.6	11157.2	21496.5	33292.6	38846.6	39271.3	36212.2	26437.1	16209.9
45°	717.6	3100.4	15449.0	29150.2	44846.9	51617.9	51476.4	47070.5	34940.1	23464.5
47.5°	990.9	4828.6	21811.1	36599.5	52231.3	58261.1	58383.0	52998.1	39902.4	29042.1
50°	1523.7	7388.3	27156.7	40537.4	55406.4	61455.9	61341.9	55119.4	41787.8	31788.6
52.5°	1981.8	9240.3	29838.3	41919.5	55813.4	63034.6	63026.7	55677.8	42080.7	32024.5
55°	2095.8	9379.9	29859.9	41994.2	56725.6	65100.9	65360.4	57052.0	42460.2	30994.3
57.5°	2050.6	8304.5	28613.5	42426.8	58349.6	66699.3	66713.0	58383.0	43423.5	30363.2
58°	2011.2	8135.4	28361.8	42672.5	58628.7	66766.1	66732.7	58443.9	44208.0	30339.7
60°	1791.0	7063.9	27380.8	43299.7	58213.9	65393.8	65081.2	57112.9	44092.0	30097.8
62.5°	1407.7	5510.8	26415.5	42574.2	53766.8	58750.6	58880.4	50564.1	40195.3	28688.2
65°	1120.6	4107.0	24402.3	37344.6	44274.8	48246.2	48729.8	41117.4	33550.2	24292.2
67.5°	892.6	2968.7	20470.2	29732.2	35034.5	40266.1	40618.0	34521.4	25992.8	18612.3
70°	725.5	2007.3	14129.8	21744.2	28896.6	34778.9	34800.6	28678.4	19400.7	12195.2
72.5°	642.9	1390.0	8202.2	15857.9	23431.1	28340.2	27768.1	23271.8	14910.3	7223.2
75°	556.4	922.1	4022.5	9694.5	14206.5	14302.8	14521.0	10795.4	7453.2	3434.6
77.5°	458.1	654.7	1584.6	2648.2	4260.4	5453.7	5656.2	4285.9	2479.2	845.4
80°	314.6	310.6	426.6	812.0	1218.9	1527.6	1425.4	1102.9	648.8	324.4
82.5°	135.7	147.5	192.7	232.0	188.7	182.8	175.0	112.1	86.5	66.8
85°	43.3	39.3	41.3	41.3	33.4	25.6	25.6	11.8	0.0	0.0
87.5°	21.6	17.7	17.7	15.7	9.8	3.9	2.0	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
114.0	0°	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0
106.2	2.5°	104.2	104.2	100.3	96.3	94.4	90.4	88.5	86.5	84.5	82.6
114.0	5°	110.1	108.1	102.2	96.3	90.4	84.5	80.6	76.7	72.7	70.8
125.8	7.5°	119.9	116.0	104.2	94.4	86.5	78.6	74.7	68.8	64.9	59.0
139.6	10°	131.7	123.9	108.1	96.3	84.5	74.7	68.8	62.9	57.0	49.2
159.2	12.5°	147.5	133.7	114.0	94.4	80.6	68.8	62.9	55.0	49.2	43.3
184.8	15°	161.2	143.5	116.0	94.4	76.7	62.9	55.0	47.2	41.3	33.4
232.0	17.5°	180.9	151.4	114.0	88.5	70.8	55.0	47.2	41.3	31.5	19.7
344.1	20°	214.3	157.3	110.1	82.6	60.9	45.2	35.4	27.5	13.8	3.9
517.1	22.5°	267.4	173.0	106.2	74.7	53.1	35.4	23.6	9.8	0.0	0.0
786.4	25°	369.6	200.5	106.2	70.8	47.2	25.6	7.9	0.0	0.0	0.0
1116.7	27.5°	491.5	237.9	106.2	60.9	37.4	13.8	0.0	0.0	0.0	0.0
1521.7	30°	615.4	279.2	106.2	53.1	29.5	2.0	0.0	0.0	0.0	0.0
1873.6	32.5°	733.3	314.6	108.1	45.2	19.7	0.0	0.0	0.0	0.0	0.0
2361.2	35°	853.3	320.5	106.2	39.3	11.8	0.0	0.0	0.0	0.0	0.0
2958.9	37.5°	1006.6	308.7	100.3	35.4	5.9	0.0	0.0	0.0	0.0	0.0
3892.7	40°	1238.6	314.6	94.4	33.4	2.0	0.0	0.0	0.0	0.0	0.0
5557.9	42.5°	1667.2	340.1	86.5	33.4	0.0	0.0	0.0	0.0	0.0	0.0
8853.0	45°	2882.2	456.1	78.6	35.4	0.0	0.0	0.0	0.0	0.0	0.0
13290.3	47.5°	4767.6	819.8	76.7	35.4	0.0	0.0	0.0	0.0	0.0	0.0
16009.3	50°	6084.8	1032.2	80.6	37.4	0.0	0.0	0.0	0.0	0.0	0.0
16349.4	52.5°	6075.0	1150.1	84.5	39.3	7.9	0.0	0.0	0.0	0.0	0.0
15069.6	55°	5400.7	1171.7	90.4	43.3	25.6	0.0	0.0	0.0	0.0	0.0
12950.2	57.5°	4514.0	1069.5	104.2	53.1	47.2	0.0	0.0	0.0	0.0	0.0
12617.9	58°	4356.7	1022.3	108.1	55.0	51.1	0.0	0.0	0.0	0.0	0.0
10944.8	60°	3570.3	833.6	137.6	68.8	68.8	0.0	0.0	0.0	0.0	0.0
8972.9	62.5°	2465.4	727.4	157.3	88.5	70.8	0.0	0.0	0.0	0.0	0.0
6615.7	65°	1743.9	656.7	171.0	94.4	57.0	0.0	0.0	0.0	0.0	0.0
4700.8	67.5°	1303.5	605.5	188.7	96.3	29.5	0.0	0.0	0.0	0.0	0.0
2949.0	70°	998.7	568.2	232.0	102.2	7.9	0.0	0.0	0.0	0.0	0.0
1757.6	72.5°	813.9	524.9	281.1	106.2	0.0	0.0	0.0	0.0	0.0	0.0
1053.8	75°	674.3	473.8	271.3	116.0	0.0	0.0	0.0	0.0	0.0	0.0
562.3	77.5°	448.3	367.6	247.7	116.0	0.0	0.0	0.0	0.0	0.0	0.0
200.5	80°	157.3	145.5	192.7	102.2	0.0	0.0	0.0	0.0	0.0	0.0
41.3	82.5°	23.6	19.7	27.5	35.4	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°
114.0	0°	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0
80.6	2.5°	80.6	80.6	78.6	80.6	80.6	84.5	94.4	108.1	123.9	129.8
68.8	5°	66.8	64.9	62.9	62.9	62.9	68.8	76.7	92.4	110.1	118.0
57.0	7.5°	55.0	53.1	51.1	49.2	49.2	53.1	62.9	80.6	98.3	106.2
47.2	10°	45.2	41.3	39.3	37.4	37.4	41.3	51.1	68.8	88.5	96.3
39.3	12.5°	37.4	31.5	27.5	25.6	23.6	29.5	39.3	55.0	76.7	86.5
29.5	15°	25.6	19.7	13.8	11.8	9.8	15.7	25.6	43.3	64.9	76.7
15.7	17.5°	13.8	5.9	2.0	0.0	0.0	3.9	11.8	31.5	53.1	62.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	39.3	49.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	23.6	33.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	17.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
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	5.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.7
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°
114.0	0°	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0
135.7	2.5°	139.6	137.6	133.7	129.8	129.8	129.8	135.7	141.6	147.5	147.5
121.9	5°	129.8	129.8	127.8	123.9	123.9	125.8	133.7	143.5	151.4	153.3
112.1	7.5°	119.9	123.9	119.9	118.0	119.9	121.9	129.8	141.6	153.3	157.3
104.2	10°	114.0	116.0	116.0	114.0	114.0	118.0	125.8	141.6	157.3	163.2
94.4	12.5°	106.2	110.1	108.1	108.1	108.1	112.1	121.9	139.6	161.2	169.1
84.5	15°	98.3	104.2	104.2	102.2	102.2	104.2	118.0	137.6	167.1	180.9
72.7	17.5°	90.4	96.3	98.3	94.4	94.4	98.3	112.1	137.6	171.0	194.6
59.0	20°	74.7	84.5	90.4	84.5	84.5	88.5	102.2	129.8	173.0	208.4
43.3	22.5°	59.0	68.8	76.7	74.7	74.7	76.7	94.4	123.9	175.0	232.0
25.6	25°	43.3	53.1	59.0	62.9	62.9	68.8	86.5	119.9	182.8	281.1
11.8	27.5°	25.6	37.4	45.2	49.2	51.1	59.0	80.6	116.0	196.6	351.9
0.0	30°	11.8	21.6	31.5	39.3	39.3	53.1	74.7	112.1	214.3	454.2
0.0	32.5°	0.0	9.8	15.7	27.5	29.5	43.3	68.8	108.1	239.9	552.5
0.0	35°	0.0	0.0	7.9	21.6	21.6	35.4	62.9	104.2	279.2	627.2
0.0	37.5°	0.0	0.0	0.0	15.7	17.7	31.5	60.9	102.2	287.0	633.1
0.0	40°	0.0	0.0	0.0	11.8	13.8	29.5	60.9	104.2	259.5	619.3
0.0	42.5°	0.0	0.0	0.0	7.9	9.8	29.5	60.9	108.1	234.0	635.0
0.0	45°	0.0	0.0	0.0	5.9	7.9	31.5	59.0	106.2	220.2	717.6
0.0	47.5°	0.0	0.0	0.0	7.9	11.8	31.5	57.0	104.2	222.2	990.9
0.0	50°	0.0	0.0	0.0	9.8	13.8	31.5	59.0	100.3	243.8	1523.7
0.0	52.5°	0.0	0.0	0.0	7.9	11.8	35.4	64.9	98.3	265.4	1981.8
0.0	55°	0.0	0.0	0.0	2.0	5.9	45.2	70.8	98.3	298.8	2095.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	51.1	80.6	104.2	353.9	2050.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	51.1	82.6	104.2	357.8	2011.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	51.1	90.4	116.0	385.3	1791.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	43.3	108.1	145.5	401.1	1407.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	35.4	127.8	159.2	412.9	1120.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	33.4	131.7	161.2	418.8	892.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	35.4	129.8	173.0	438.4	725.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	39.3	118.0	190.7	438.4	642.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	41.3	110.1	214.3	399.1	556.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	39.3	108.1	249.7	355.9	458.1
0.0	80°	3.9	5.9	5.9	3.9	3.9	33.4	106.2	253.6	302.8	314.6
2.0	82.5°	11.8	15.7	13.8	9.8	9.8	29.5	94.4	212.3	157.3	135.7
11.8	85°	21.6	25.6	25.6	21.6	21.6	27.5	59.0	76.7	53.1	43.3
21.6	87.5°	29.5	33.4	33.4	29.5	29.5	27.5	25.6	23.6	21.6	21.6
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

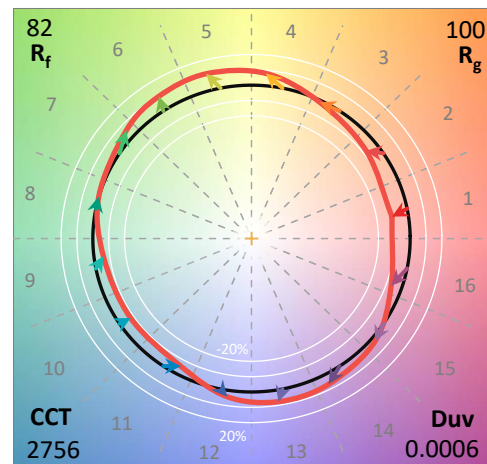
Test Information

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

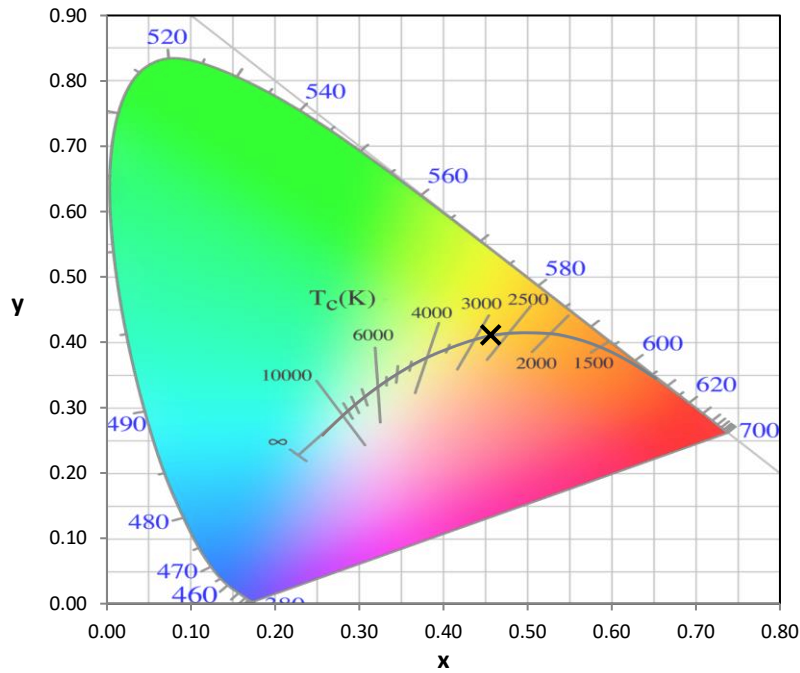
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

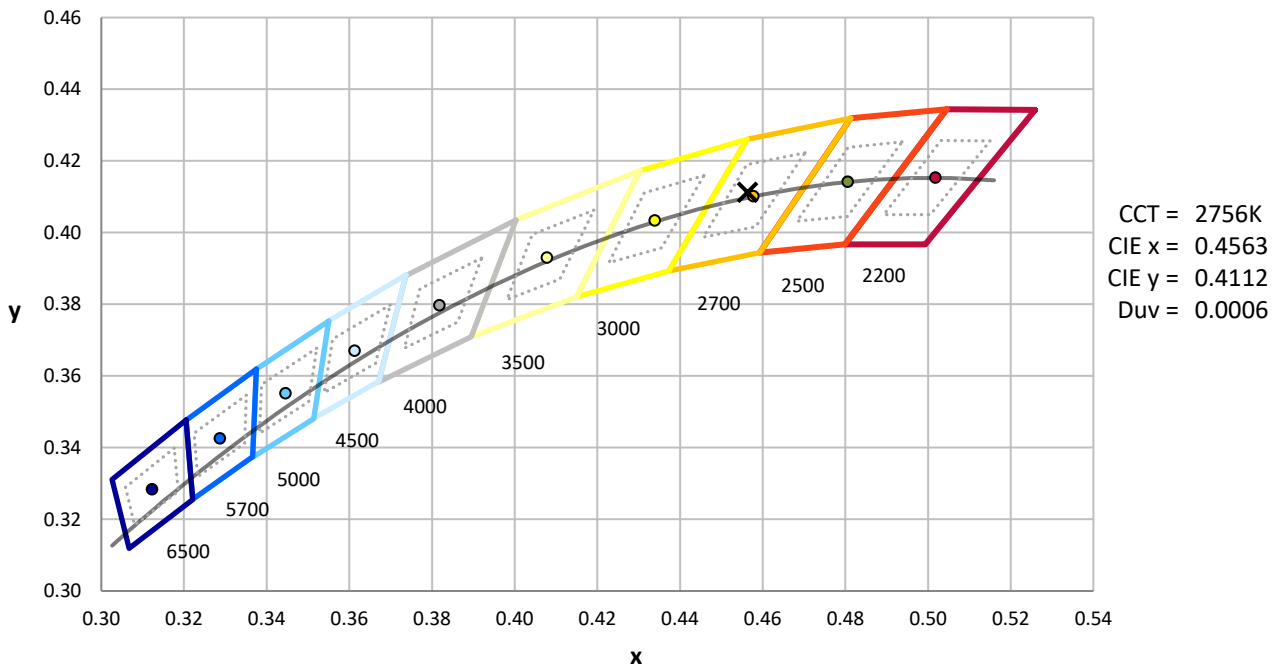
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

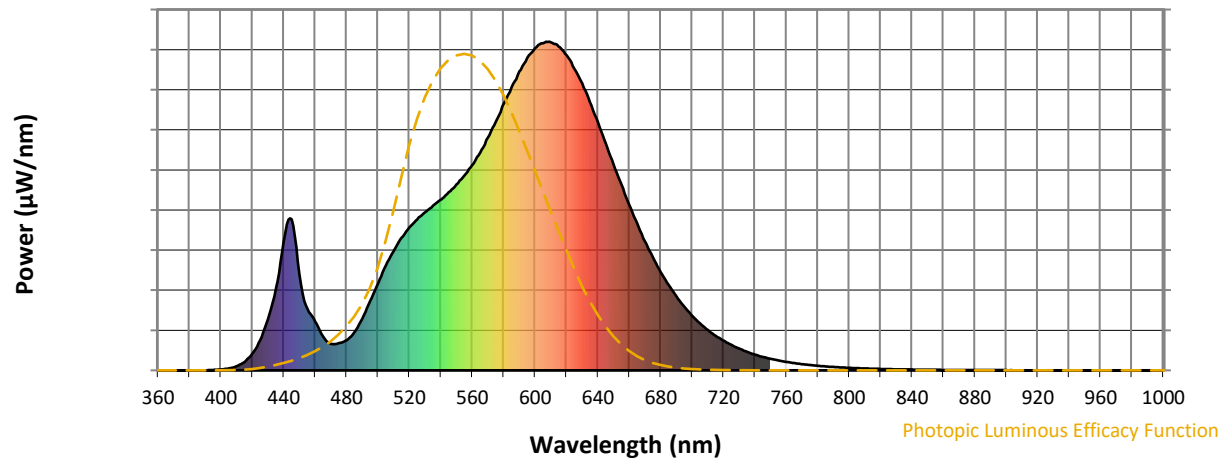


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

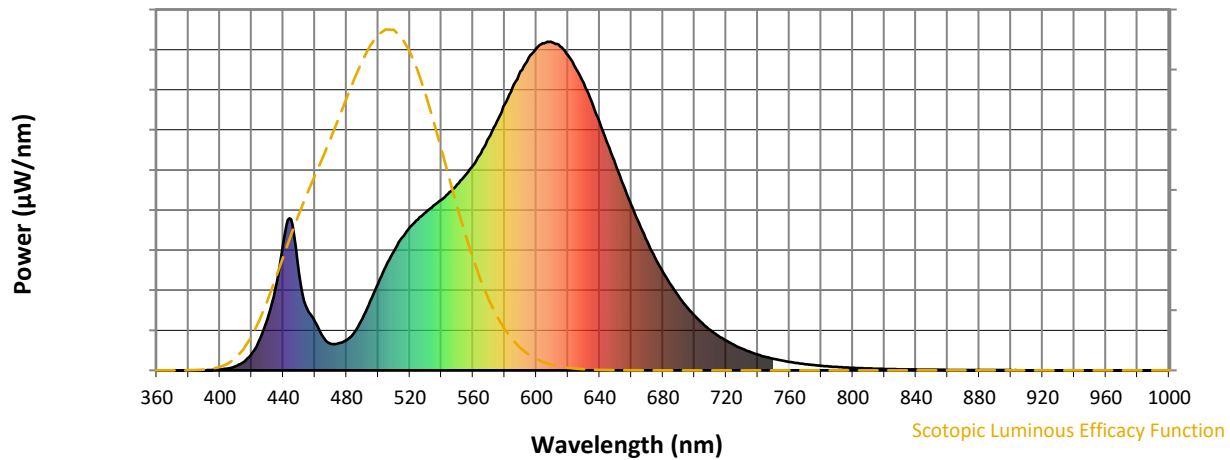


Photopic Lumens: NR

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	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



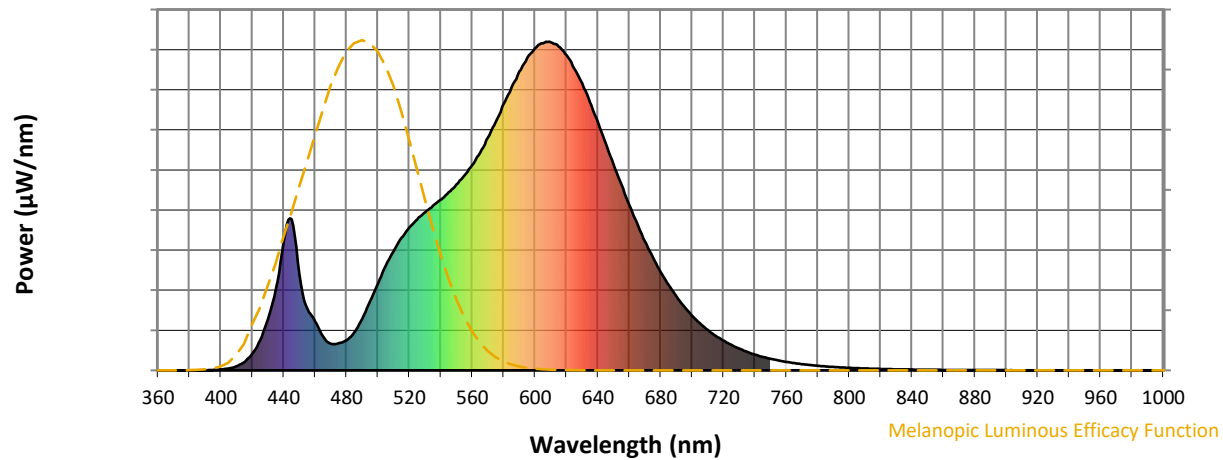
Scotopic Lumens: NR

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

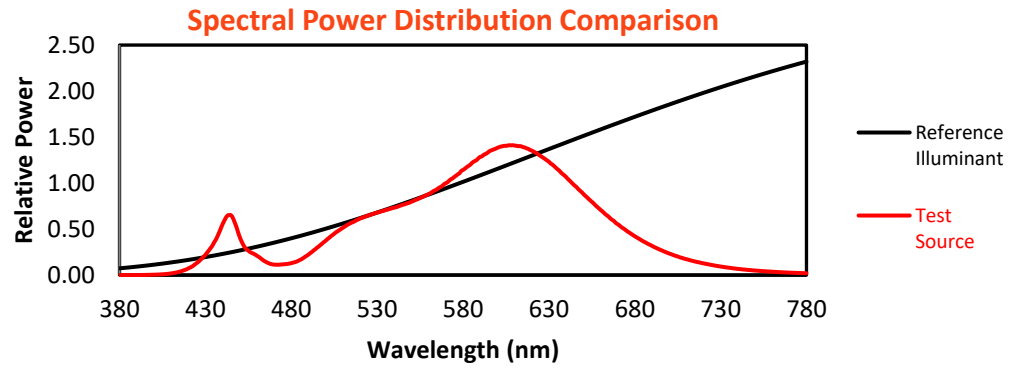
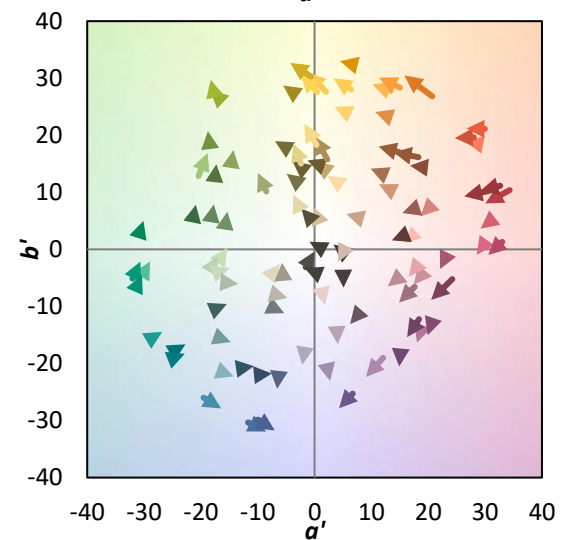
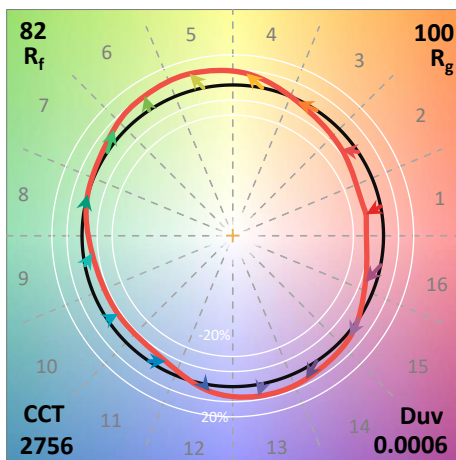
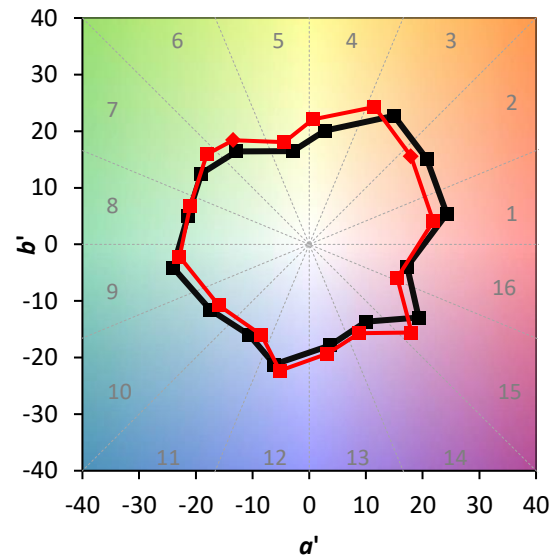
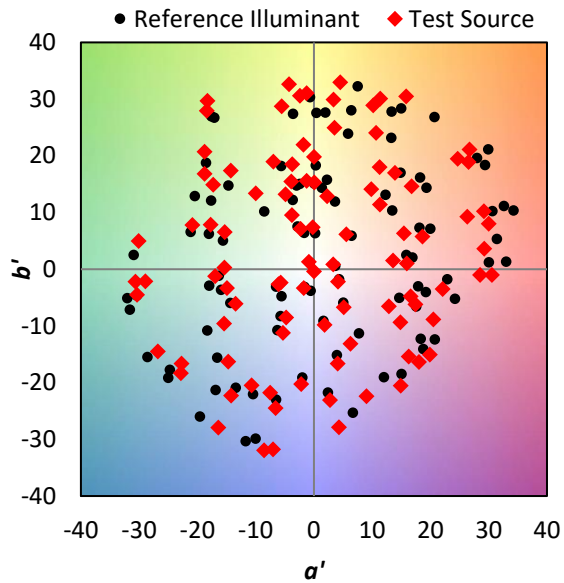


Melanopic Lumens: NR

M/P: 2.16

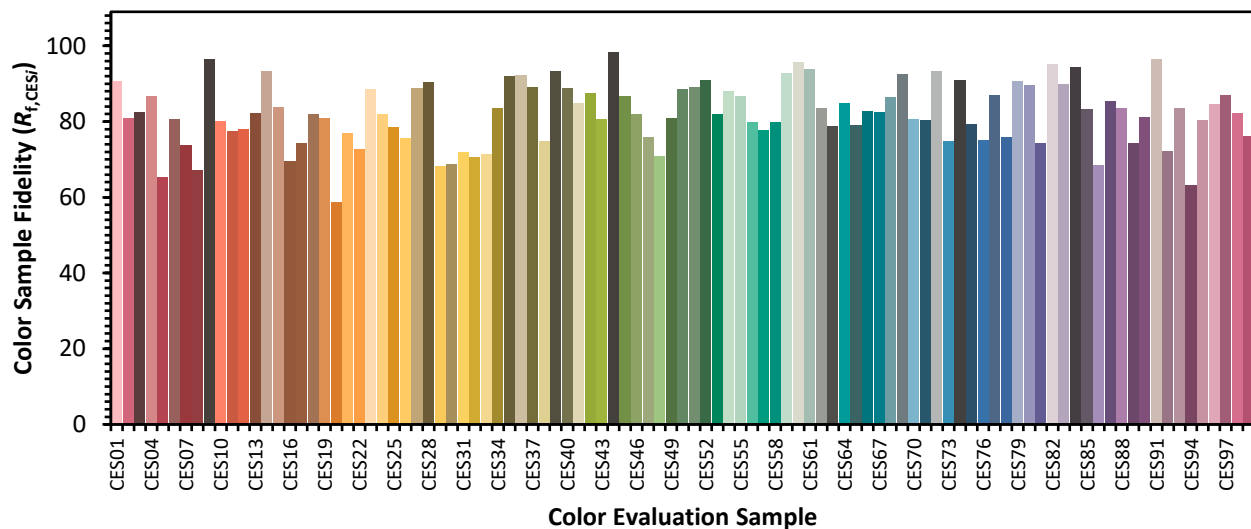
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158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

REPORT NUMBER: SP1-2407-184-8

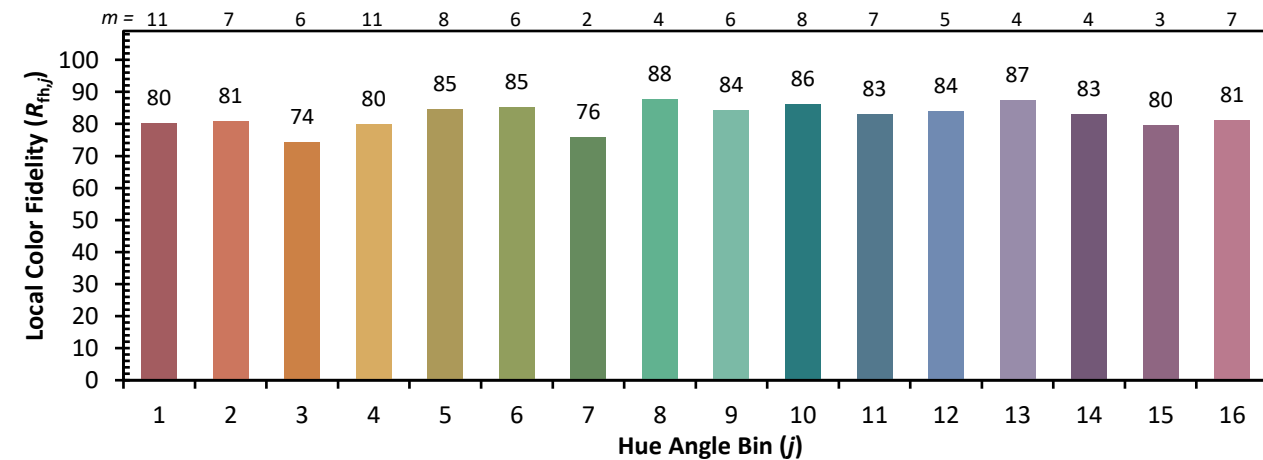
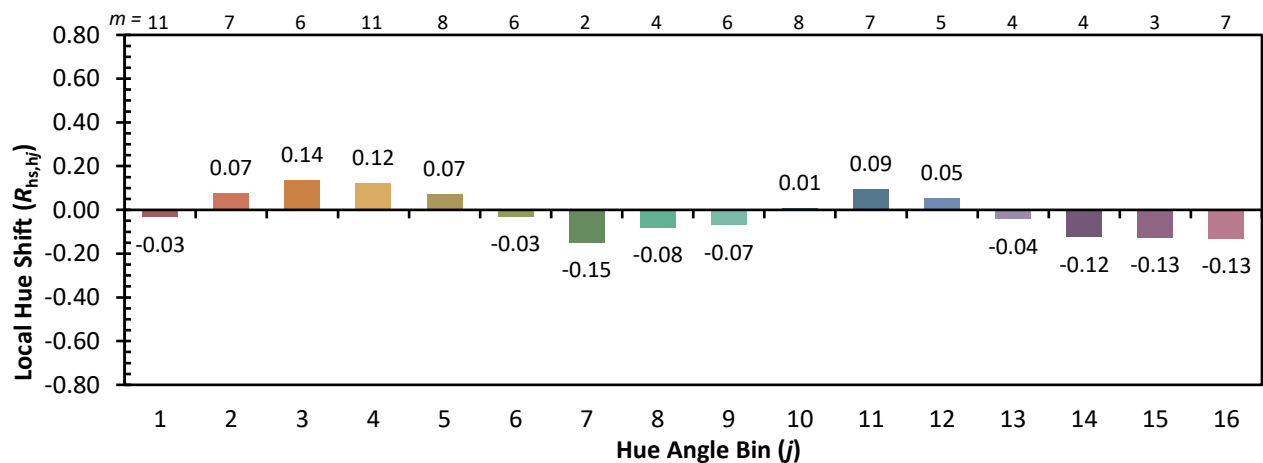
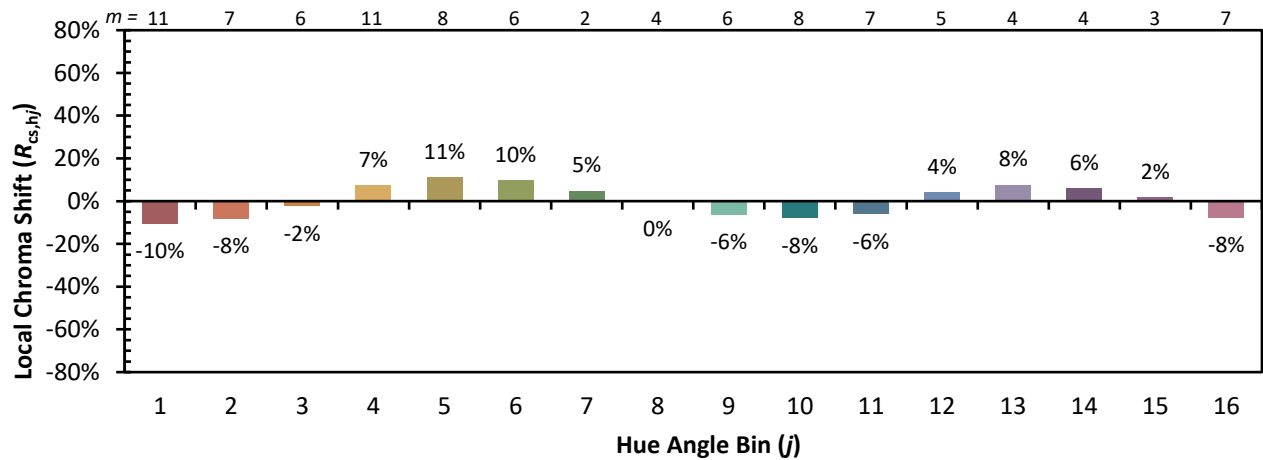
TM-30-18
Summary
 $R_f = 82.2$
 $R_g = 99.9$
 CIE $R_a = 82.9$
 $R_9 = 10.8$

Color Vector Graphics


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

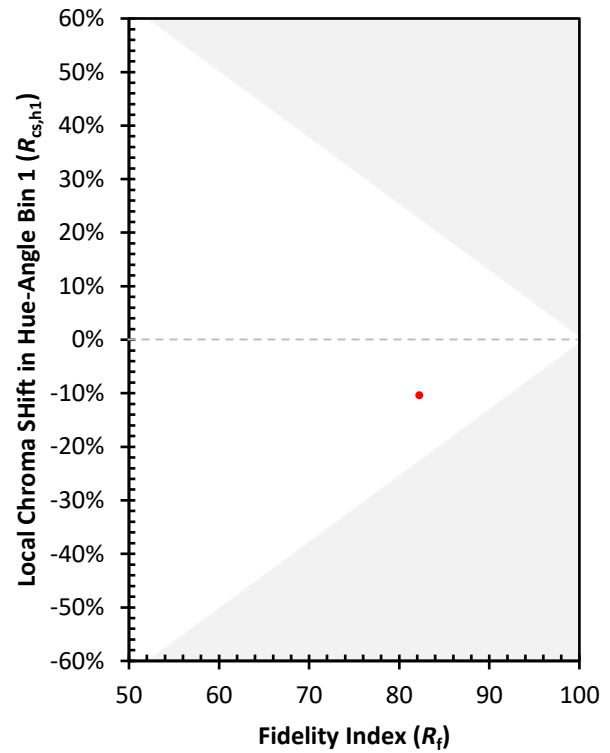
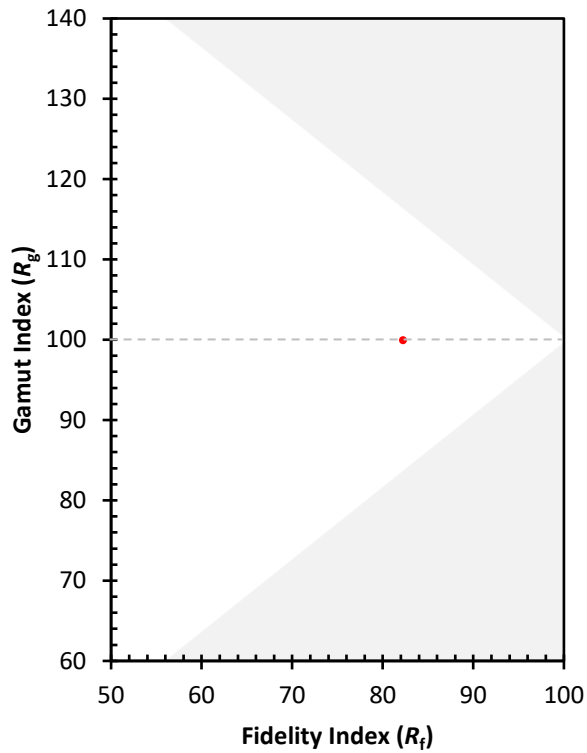
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 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)