

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: P1049714

Luminaire Tested: **GALN-SA1B-827-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049714
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 1xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3577.2 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

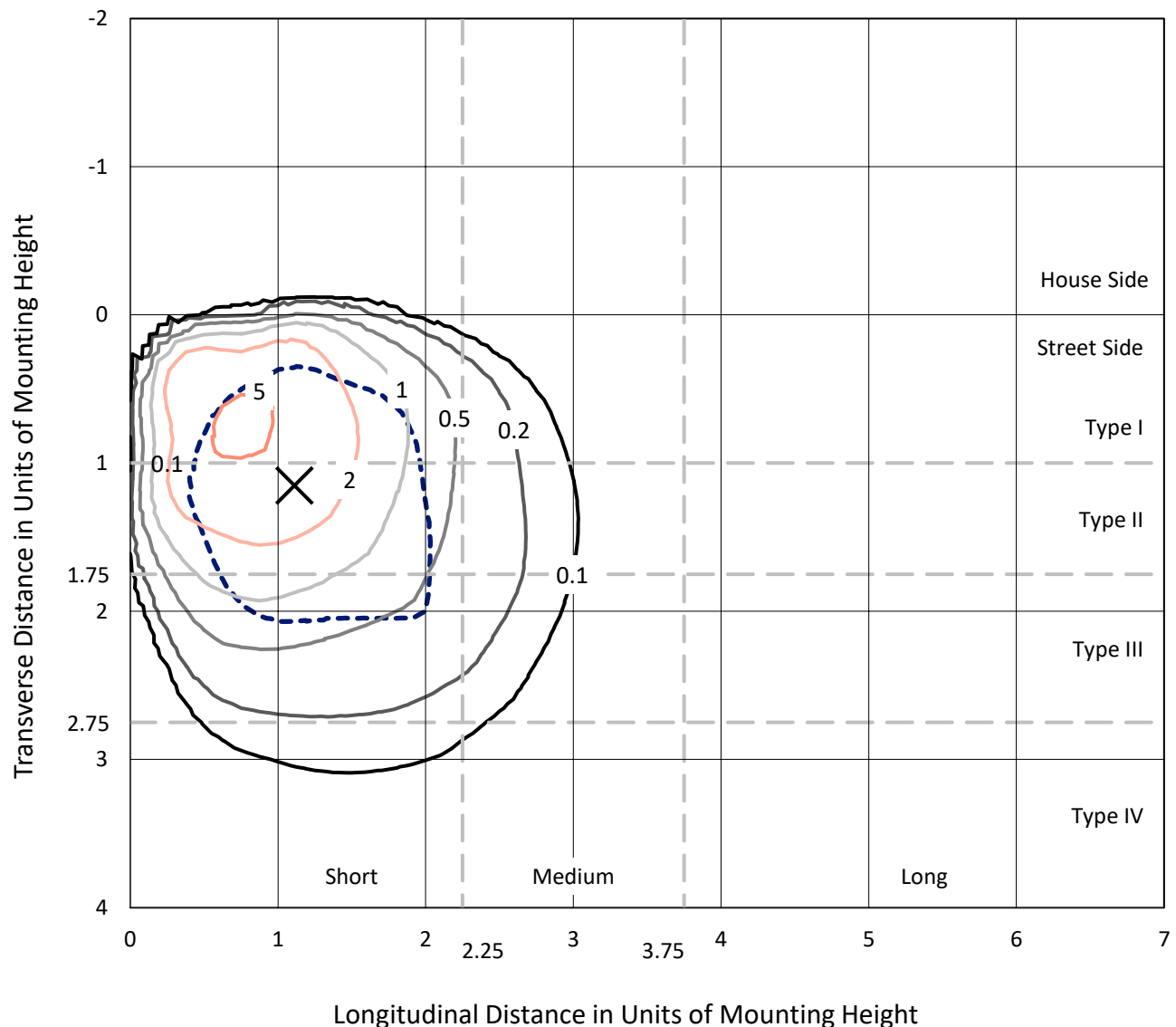
Input Watts (W): 38.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

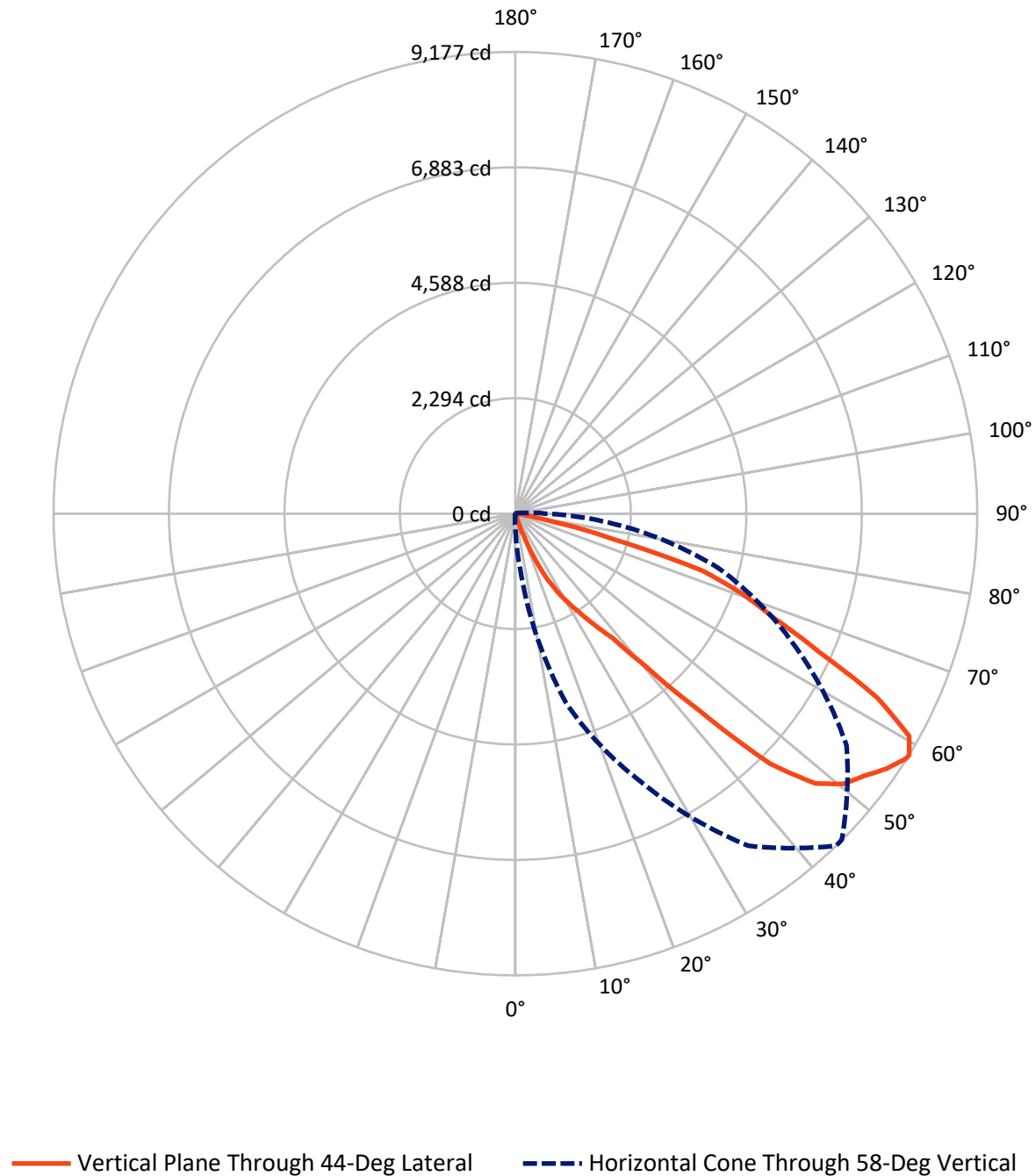
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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	24.4	0.0	24.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	3552.7	0.0	3552.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	3577.2	0.0	3577.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.0
10°-20°	7.8	0.2
20°-30°	84.7	2.4
30°-40°	250.6	7.0
40°-50°	747.0	20.9
50°-60°	1185.3	33.1
60°-70°	988.6	27.6
70°-80°	304.9	8.5
80°-90°	6.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3577.2	100.0
0°-180°	3577.2	100.0



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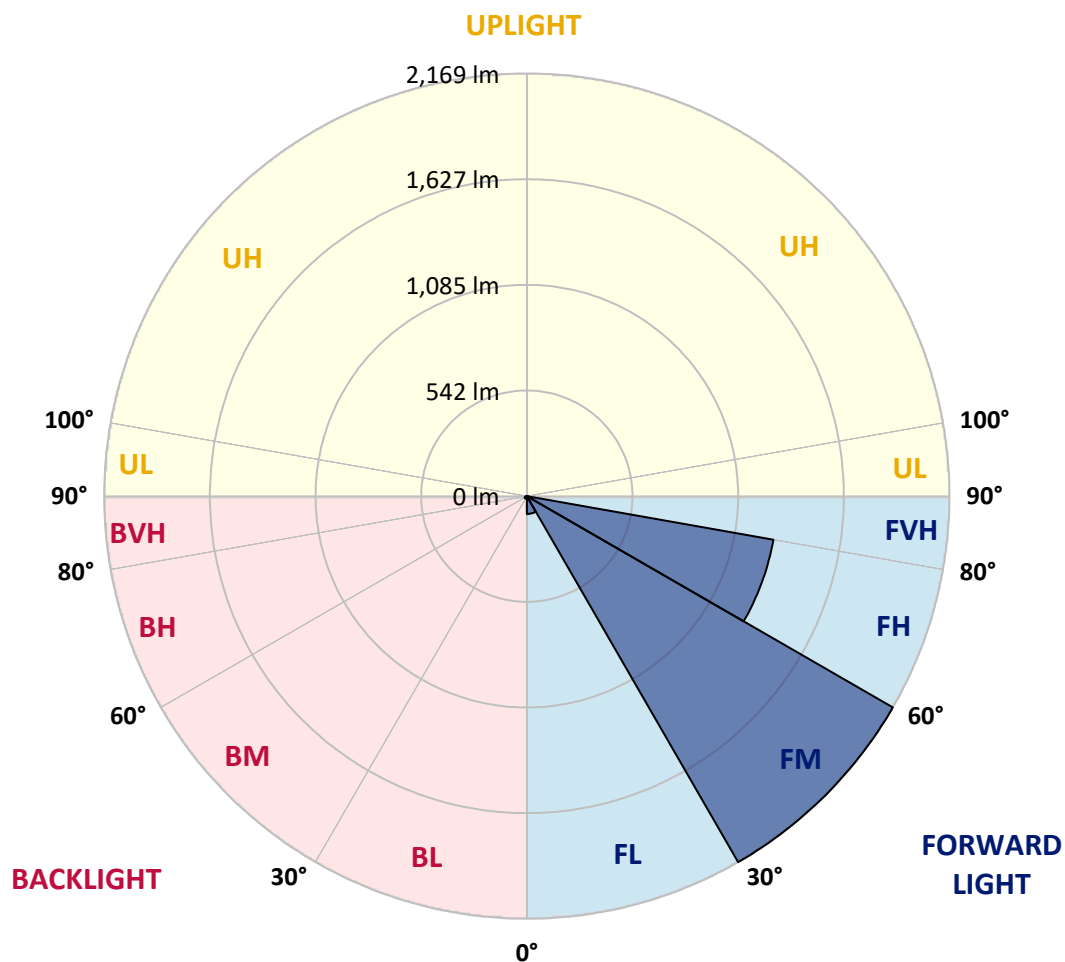
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	91.6	2.6			
FM	(30°-60°)	2169.5	60.6			
FH	(60°-80°)	1285.2	35.9			G1/1800
FVH	(80°-90°)	6.4	0.2			G0/10
BL	(0°-30°)	2.4	0.1	B0/110		
BM	(30°-60°)	13.4	0.4	B0/220		
BH	(60°-80°)	8.3	0.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
2.5°	20.3	20.3	19.5	18.4	17.3	16.2	15.9	15.4	15.1	14.9
5°	21.1	21.1	20.8	20.0	18.9	18.1	18.1	17.3	16.8	16.2
7.5°	21.6	21.9	22.4	22.2	21.6	20.8	20.8	20.3	19.5	18.1
10°	22.4	23.2	24.3	24.9	25.1	25.1	24.9	24.6	23.2	21.3
12.5°	23.2	24.9	27.6	30.3	31.9	34.0	33.8	33.2	29.7	25.7
15°	24.9	27.3	33.0	40.8	53.0	60.5	63.5	60.8	49.2	34.6
17.5°	26.8	30.8	47.8	85.4	140.0	165.9	181.6	168.9	111.9	65.7
20°	28.6	37.6	88.9	221.3	363.2	448.0	471.5	434.8	279.1	125.1
22.5°	31.9	52.7	180.2	457.5	782.6	909.8	933.9	816.3	527.2	247.0
25°	38.6	76.5	310.8	745.5	1167.9	1382.7	1372.7	1218.7	855.3	394.5
27.5°	48.4	111.3	469.9	1059.3	1537.0	1726.5	1749.2	1558.7	1140.1	580.2
30°	62.4	154.3	640.7	1310.6	1832.9	2037.8	2041.5	1844.6	1394.9	743.1
32.5°	75.9	194.8	790.1	1553.5	2124.5	2349.1	2365.8	2123.4	1585.1	912.8
35°	86.2	221.3	941.5	1767.0	2418.5	2727.9	2726.8	2439.0	1810.5	1064.4
37.5°	87.0	247.8	1078.5	1985.3	2790.9	3137.3	3171.6	2854.4	2082.9	1251.9
40°	85.1	277.5	1251.9	2325.8	3461.8	3993.4	4023.6	3623.7	2629.3	1573.0
42.5°	87.3	329.1	1533.5	2954.6	4576.0	5339.4	5397.7	4977.3	3633.7	2228.0
45°	98.6	426.1	2123.4	4006.6	6164.1	7094.7	7075.3	6469.7	4802.4	3225.1
47.5°	136.2	663.7	2997.9	5030.5	7179.0	8007.8	8024.6	7284.4	5484.5	3991.8
50°	209.4	1015.5	3732.6	5571.8	7615.5	8446.9	8431.3	7576.0	5743.6	4369.3
52.5°	272.4	1270.1	4101.2	5761.7	7671.4	8663.9	8662.8	7652.7	5783.9	4401.7
55°	288.1	1289.2	4104.2	5772.0	7796.8	8947.9	8983.6	7841.6	5836.0	4260.1
57.5°	281.8	1141.4	3932.8	5831.4	8020.0	9167.6	9169.5	8024.6	5968.4	4173.3
58°	276.4	1118.2	3898.3	5865.2	8058.4	9176.8	9172.2	8033.0	6076.3	4170.1
60°	246.2	970.9	3763.4	5951.4	8001.3	8988.2	8945.2	7850.0	6060.3	4136.9
62.5°	193.5	757.4	3630.7	5851.7	7390.1	8075.1	8092.9	6949.9	5524.7	3943.1
65°	154.0	564.5	3354.0	5132.9	6085.4	6631.3	6697.8	5651.5	4611.4	3338.9
67.5°	122.7	408.0	2813.6	4086.6	4815.4	5534.5	5582.8	4744.9	3572.6	2558.2
70°	99.7	275.9	1942.1	2988.7	3971.8	4780.3	4783.2	3941.8	2666.6	1676.2
72.5°	88.4	191.0	1127.4	2179.6	3220.5	3895.3	3816.6	3198.6	2049.4	992.8
75°	76.5	126.7	552.9	1332.5	1952.6	1965.9	1995.9	1483.8	1024.4	472.1
77.5°	63.0	90.0	217.8	364.0	585.6	749.6	777.4	589.1	340.8	116.2
80°	43.2	42.7	58.6	111.6	167.5	210.0	195.9	151.6	89.2	44.6
82.5°	18.6	20.3	26.5	31.9	25.9	25.1	24.0	15.4	11.9	9.2
85°	5.9	5.4	5.7	5.7	4.6	3.5	3.5	1.6	0.0	0.0
87.5°	3.0	2.4	2.4	2.2	1.4	0.5	0.3	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°
15.7	0°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
14.6	2.5°	14.3	14.3	13.8	13.2	13.0	12.4	12.2	11.9	11.6	11.3
15.7	5°	15.1	14.9	14.1	13.2	12.4	11.6	11.1	10.5	10.0	9.7
17.3	7.5°	16.5	15.9	14.3	13.0	11.9	10.8	10.3	9.5	8.9	8.1
19.2	10°	18.1	17.0	14.9	13.2	11.6	10.3	9.5	8.6	7.8	6.8
21.9	12.5°	20.3	18.4	15.7	13.0	11.1	9.5	8.6	7.6	6.8	5.9
25.4	15°	22.2	19.7	15.9	13.0	10.5	8.6	7.6	6.5	5.7	4.6
31.9	17.5°	24.9	20.8	15.7	12.2	9.7	7.6	6.5	5.7	4.3	2.7
47.3	20°	29.5	21.6	15.1	11.3	8.4	6.2	4.9	3.8	1.9	0.5
71.1	22.5°	36.8	23.8	14.6	10.3	7.3	4.9	3.2	1.4	0.0	0.0
108.1	25°	50.8	27.6	14.6	9.7	6.5	3.5	1.1	0.0	0.0	0.0
153.5	27.5°	67.6	32.7	14.6	8.4	5.1	1.9	0.0	0.0	0.0	0.0
209.2	30°	84.6	38.4	14.6	7.3	4.1	0.3	0.0	0.0	0.0	0.0
257.5	32.5°	100.8	43.2	14.9	6.2	2.7	0.0	0.0	0.0	0.0	0.0
324.5	35°	117.3	44.0	14.6	5.4	1.6	0.0	0.0	0.0	0.0	0.0
406.7	37.5°	138.4	42.4	13.8	4.9	0.8	0.0	0.0	0.0	0.0	0.0
535.0	40°	170.2	43.2	13.0	4.6	0.3	0.0	0.0	0.0	0.0	0.0
763.9	42.5°	229.2	46.7	11.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
1216.8	45°	396.1	62.7	10.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
1826.7	47.5°	655.3	112.7	10.5	4.9	0.0	0.0	0.0	0.0	0.0	0.0
2200.4	50°	836.3	141.9	11.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0
2247.2	52.5°	835.0	158.1	11.6	5.4	1.1	0.0	0.0	0.0	0.0	0.0
2071.3	55°	742.3	161.1	12.4	5.9	3.5	0.0	0.0	0.0	0.0	0.0
1780.0	57.5°	620.4	147.0	14.3	7.3	6.5	0.0	0.0	0.0	0.0	0.0
1734.3	58°	598.8	140.5	14.9	7.6	7.0	0.0	0.0	0.0	0.0	0.0
1504.3	60°	490.7	114.6	18.9	9.5	9.5	0.0	0.0	0.0	0.0	0.0
1233.3	62.5°	338.9	100.0	21.6	12.2	9.7	0.0	0.0	0.0	0.0	0.0
909.3	65°	239.7	90.3	23.5	13.0	7.8	0.0	0.0	0.0	0.0	0.0
646.1	67.5°	179.2	83.2	25.9	13.2	4.1	0.0	0.0	0.0	0.0	0.0
405.3	70°	137.3	78.1	31.9	14.1	1.1	0.0	0.0	0.0	0.0	0.0
241.6	72.5°	111.9	72.1	38.6	14.6	0.0	0.0	0.0	0.0	0.0	0.0
144.8	75°	92.7	65.1	37.3	15.9	0.0	0.0	0.0	0.0	0.0	0.0
77.3	77.5°	61.6	50.5	34.0	15.9	0.0	0.0	0.0	0.0	0.0	0.0
27.6	80°	21.6	20.0	26.5	14.1	0.0	0.0	0.0	0.0	0.0	0.0
5.7	82.5°	3.2	2.7	3.8	4.9	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°
15.7	0°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
11.1	2.5°	11.1	11.1	10.8	11.1	11.1	11.6	13.0	14.9	17.0	17.8
9.5	5°	9.2	8.9	8.6	8.6	8.6	9.5	10.5	12.7	15.1	16.2
7.8	7.5°	7.6	7.3	7.0	6.8	6.8	7.3	8.6	11.1	13.5	14.6
6.5	10°	6.2	5.7	5.4	5.1	5.1	5.7	7.0	9.5	12.2	13.2
5.4	12.5°	5.1	4.3	3.8	3.5	3.2	4.1	5.4	7.6	10.5	11.9
4.1	15°	3.5	2.7	1.9	1.6	1.4	2.2	3.5	5.9	8.9	10.5
2.2	17.5°	1.9	0.8	0.3	0.0	0.0	0.5	1.6	4.3	7.3	8.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.4	6.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.2	4.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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	0.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2
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°
15.7	0°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
18.6	2.5°	19.2	18.9	18.4	17.8	17.8	17.8	18.6	19.5	20.3	20.3
16.8	5°	17.8	17.8	17.6	17.0	17.0	17.3	18.4	19.7	20.8	21.1
15.4	7.5°	16.5	17.0	16.5	16.2	16.5	16.8	17.8	19.5	21.1	21.6
14.3	10°	15.7	15.9	15.9	15.7	15.7	16.2	17.3	19.5	21.6	22.4
13.0	12.5°	14.6	15.1	14.9	14.9	14.9	15.4	16.8	19.2	22.2	23.2
11.6	15°	13.5	14.3	14.3	14.1	14.1	14.3	16.2	18.9	23.0	24.9
10.0	17.5°	12.4	13.2	13.5	13.0	13.0	13.5	15.4	18.9	23.5	26.8
8.1	20°	10.3	11.6	12.4	11.6	11.6	12.2	14.1	17.8	23.8	28.6
5.9	22.5°	8.1	9.5	10.5	10.3	10.3	10.5	13.0	17.0	24.0	31.9
3.5	25°	5.9	7.3	8.1	8.6	8.6	9.5	11.9	16.5	25.1	38.6
1.6	27.5°	3.5	5.1	6.2	6.8	7.0	8.1	11.1	15.9	27.0	48.4
0.0	30°	1.6	3.0	4.3	5.4	5.4	7.3	10.3	15.4	29.5	62.4
0.0	32.5°	0.0	1.4	2.2	3.8	4.1	5.9	9.5	14.9	33.0	75.9
0.0	35°	0.0	0.0	1.1	3.0	3.0	4.9	8.6	14.3	38.4	86.2
0.0	37.5°	0.0	0.0	0.0	2.2	2.4	4.3	8.4	14.1	39.5	87.0
0.0	40°	0.0	0.0	0.0	1.6	1.9	4.1	8.4	14.3	35.7	85.1
0.0	42.5°	0.0	0.0	0.0	1.1	1.4	4.1	8.4	14.9	32.2	87.3
0.0	45°	0.0	0.0	0.0	0.8	1.1	4.3	8.1	14.6	30.3	98.6
0.0	47.5°	0.0	0.0	0.0	1.1	1.6	4.3	7.8	14.3	30.5	136.2
0.0	50°	0.0	0.0	0.0	1.4	1.9	4.3	8.1	13.8	33.5	209.4
0.0	52.5°	0.0	0.0	0.0	1.1	1.6	4.9	8.9	13.5	36.5	272.4
0.0	55°	0.0	0.0	0.0	0.3	0.8	6.2	9.7	13.5	41.1	288.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	7.0	11.1	14.3	48.6	281.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	7.0	11.3	14.3	49.2	276.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	7.0	12.4	15.9	53.0	246.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	5.9	14.9	20.0	55.1	193.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	4.9	17.6	21.9	56.7	154.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	4.6	18.1	22.2	57.6	122.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	4.9	17.8	23.8	60.3	99.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	5.4	16.2	26.2	60.3	88.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	5.7	15.1	29.5	54.9	76.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	5.4	14.9	34.3	48.9	63.0
0.0	80°	0.5	0.8	0.8	0.5	0.5	4.6	14.6	34.9	41.6	43.2
0.3	82.5°	1.6	2.2	1.9	1.4	1.4	4.1	13.0	29.2	21.6	18.6
1.6	85°	3.0	3.5	3.5	3.0	3.0	3.8	8.1	10.5	7.3	5.9
3.0	87.5°	4.1	4.6	4.6	4.1	4.1	3.8	3.5	3.2	3.0	3.0
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



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

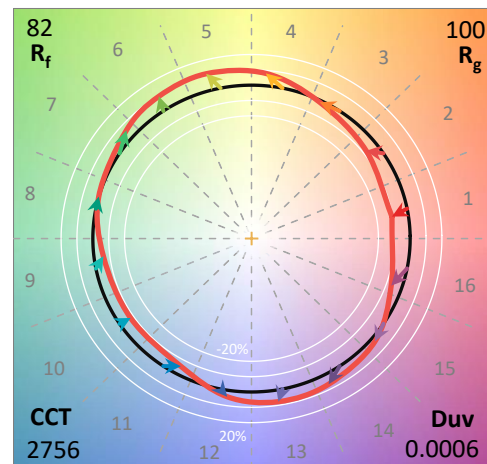
Test Information

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

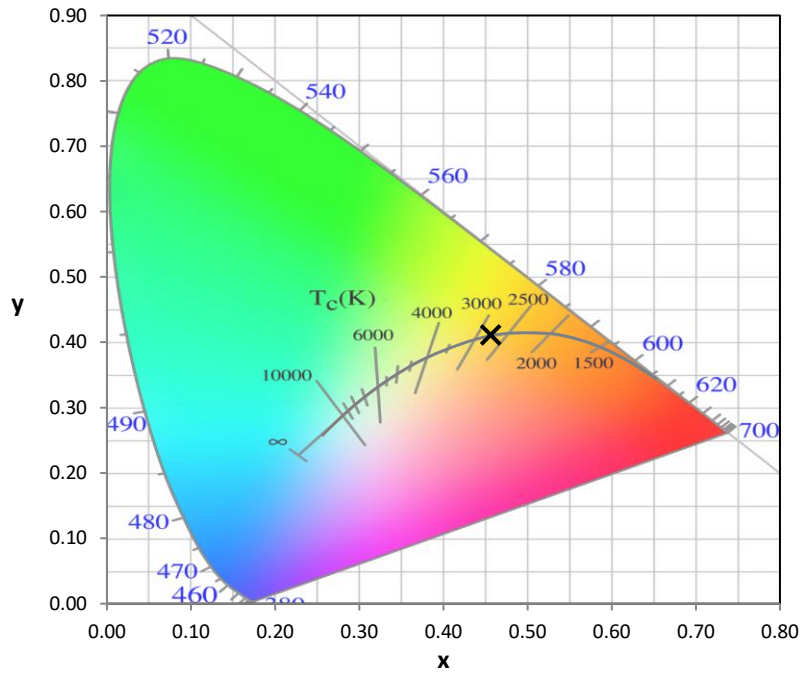
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

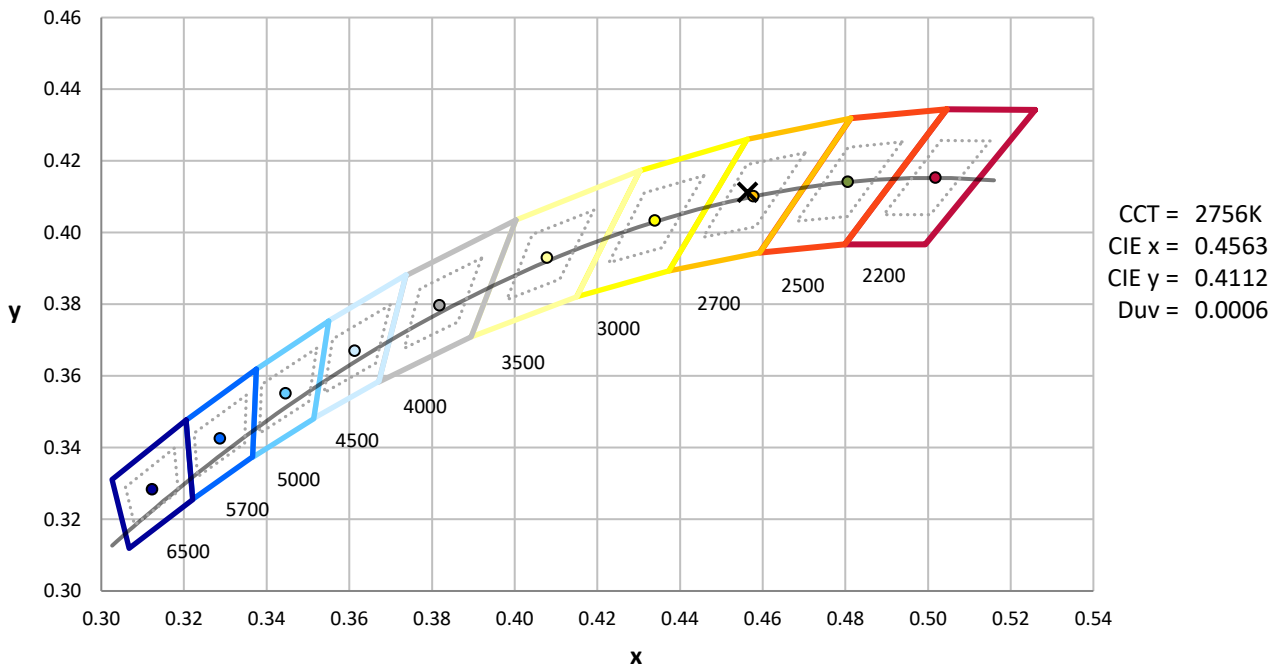
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



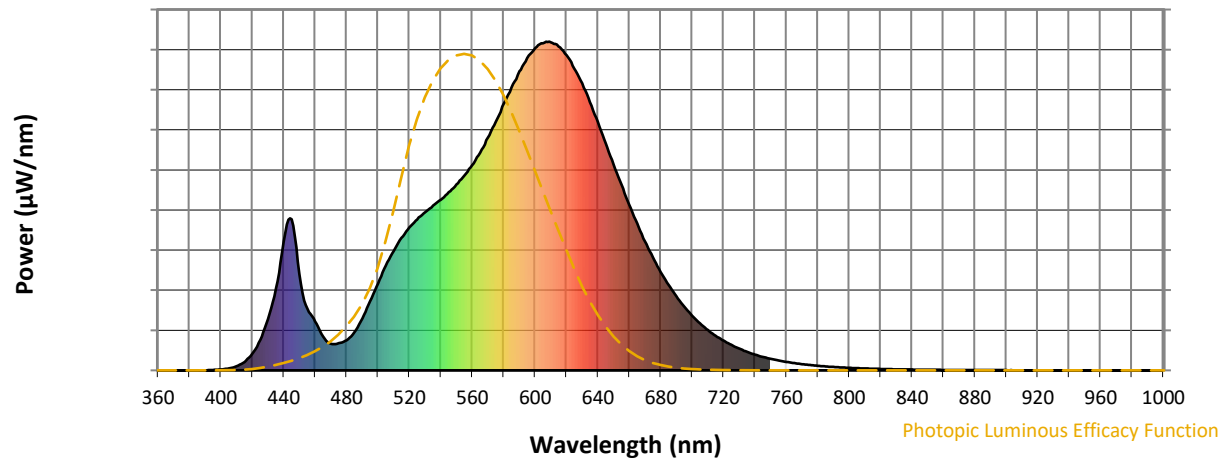
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

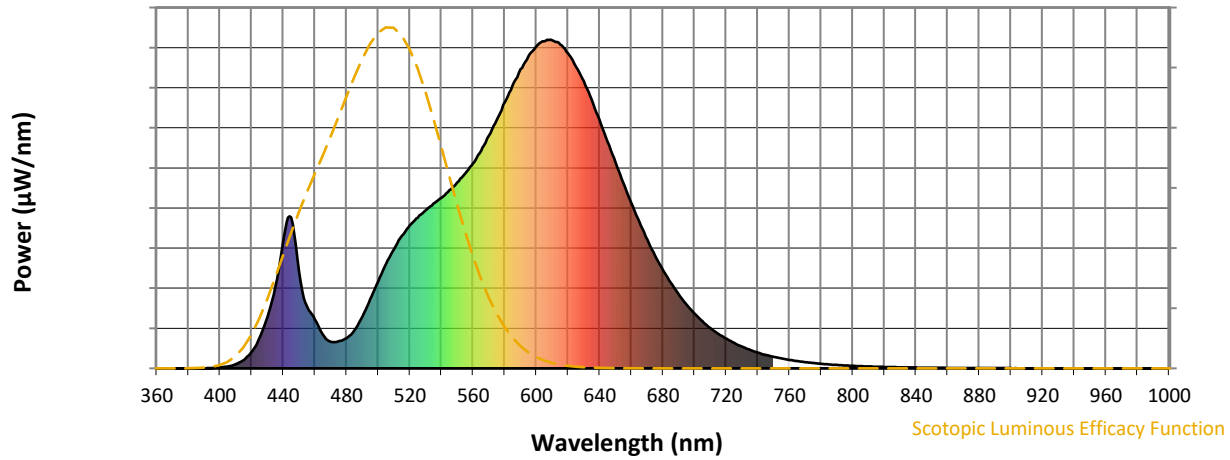


Photopic Lumens: NR

λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)
360	0	NR	490	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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Scotopic Flux vs. Wavelength



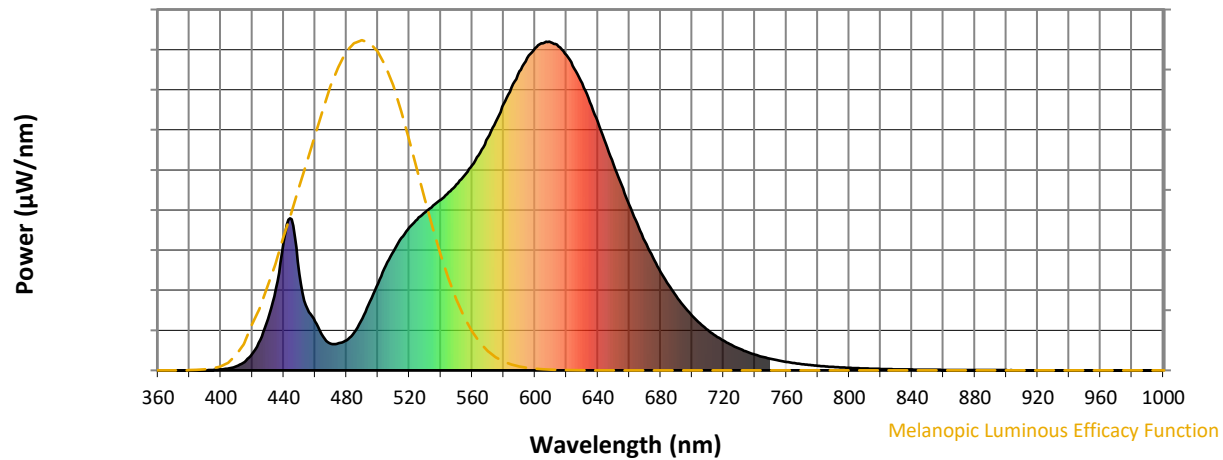
Scotopic Lumens: NR

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

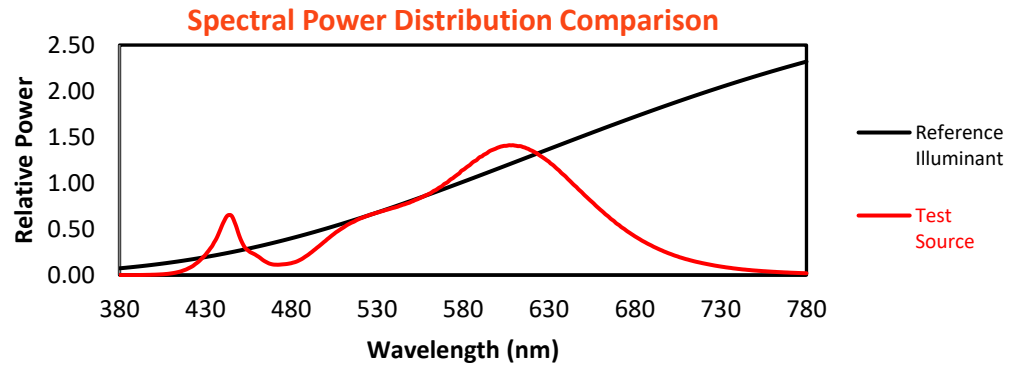
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	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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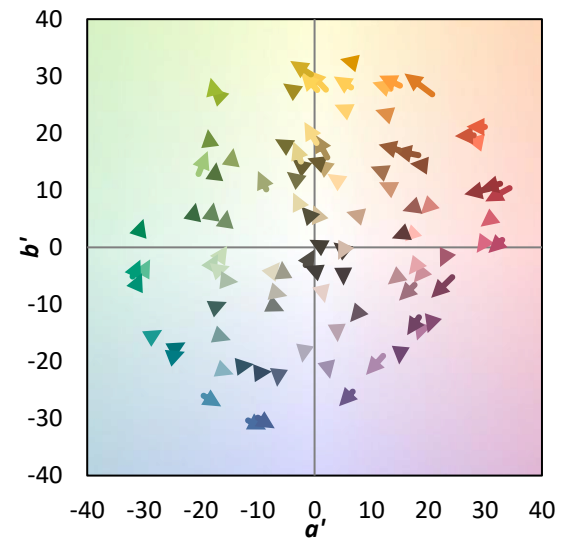
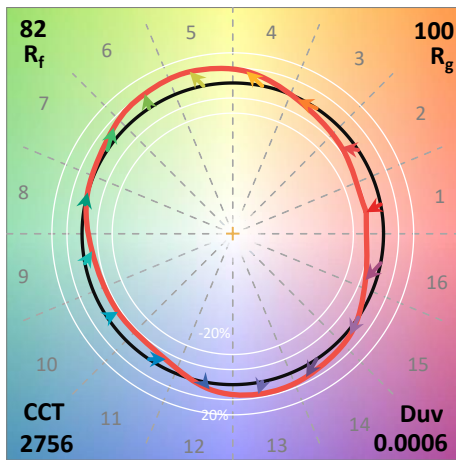
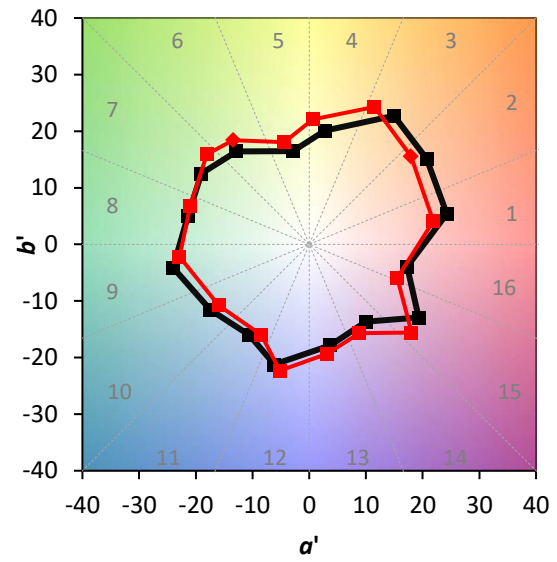
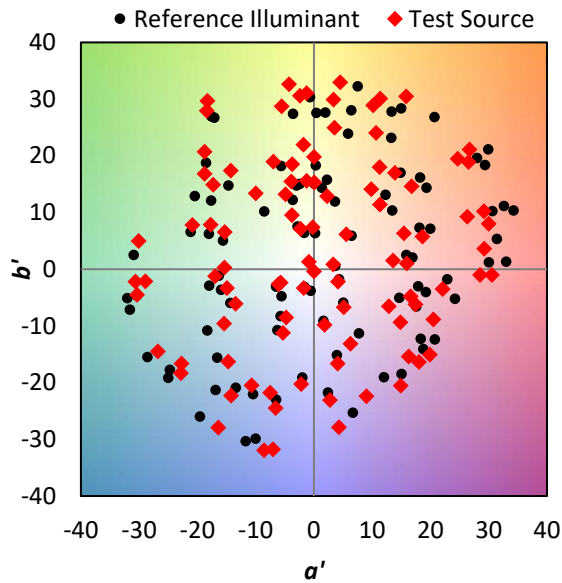
TM-30-18

Summary

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

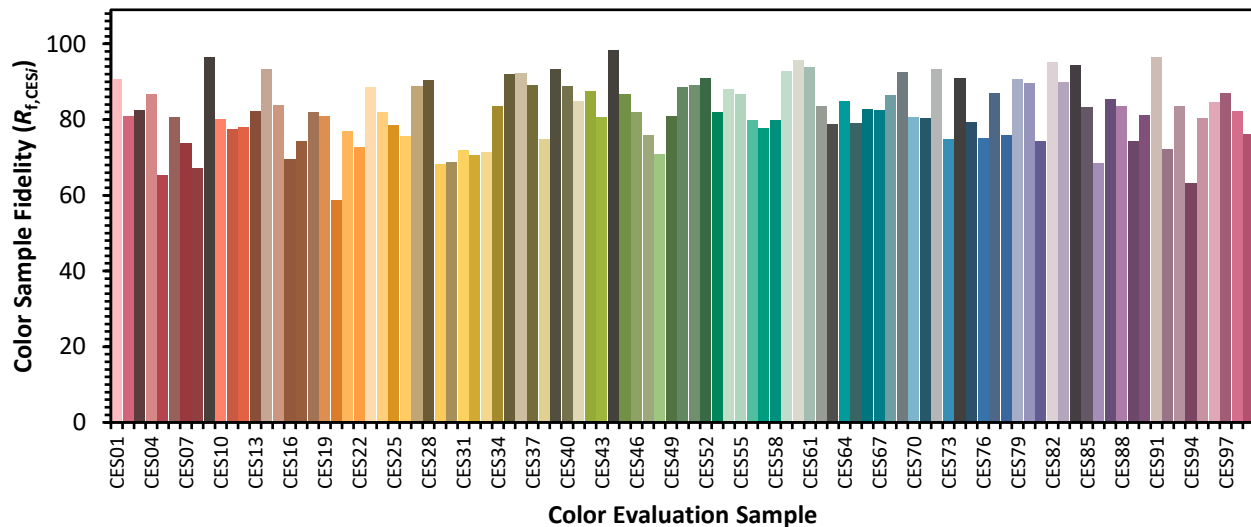


Color Vector Graphics

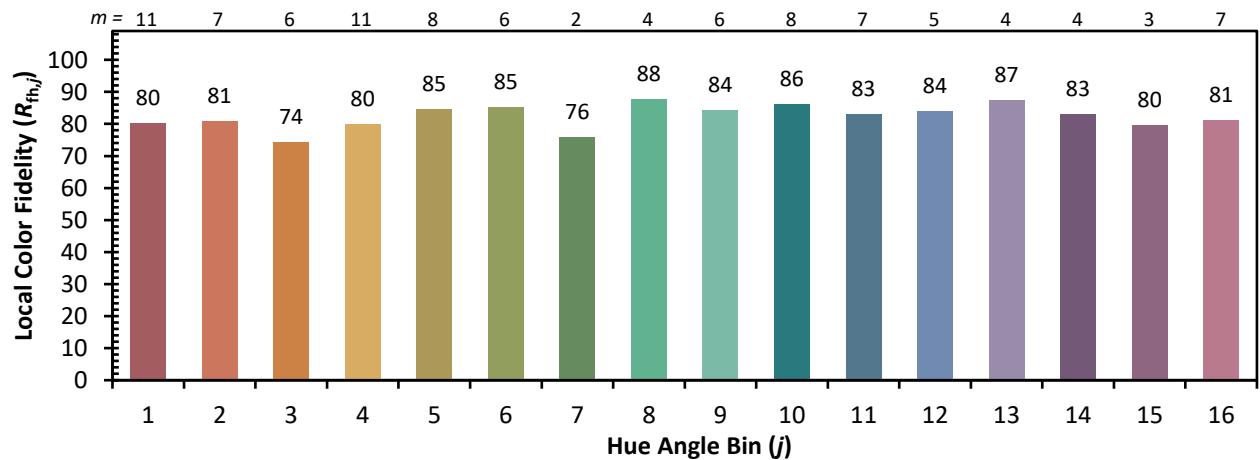
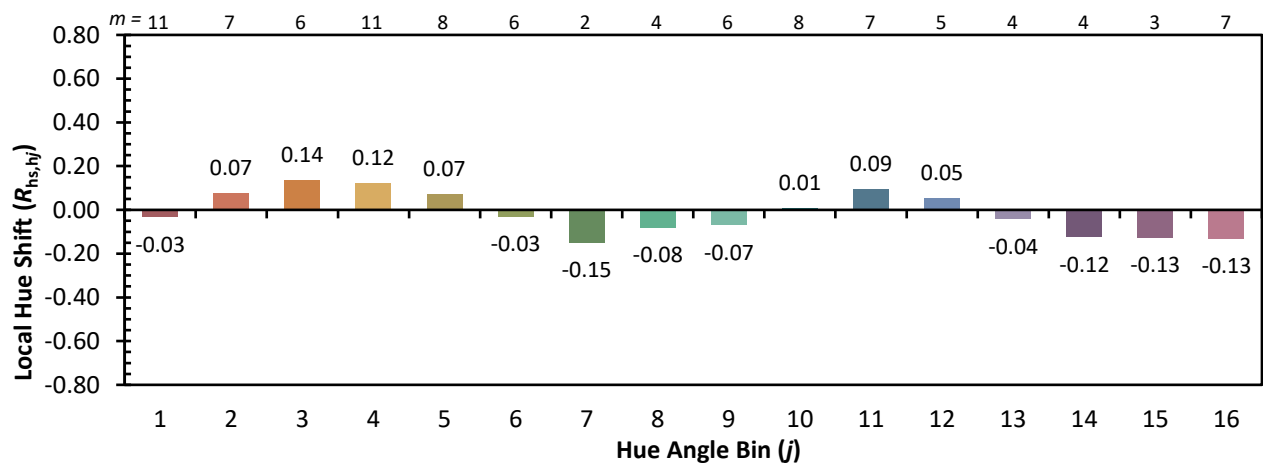
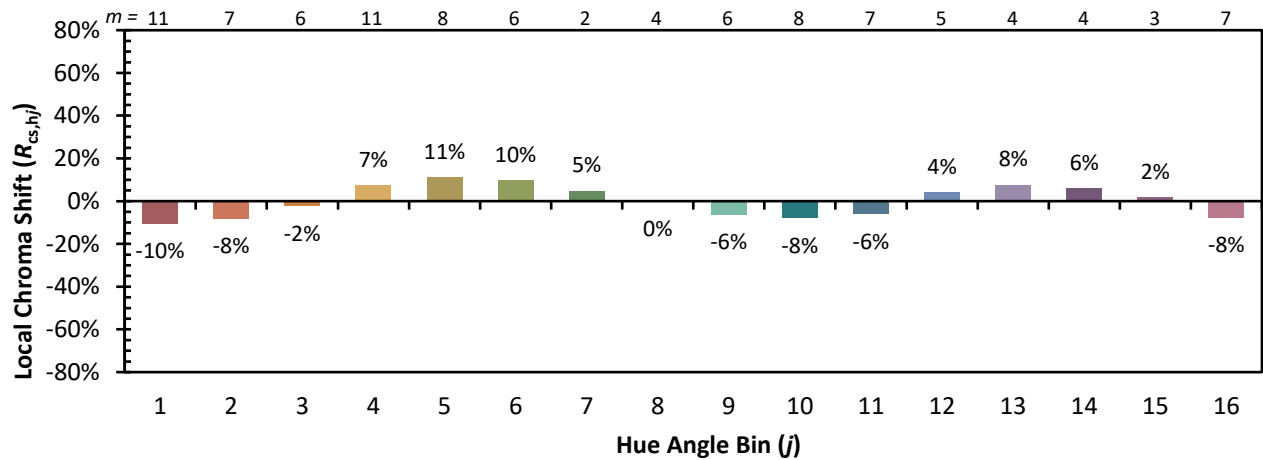


Individual Sample Fidelity Index ($R_{f,i}$)

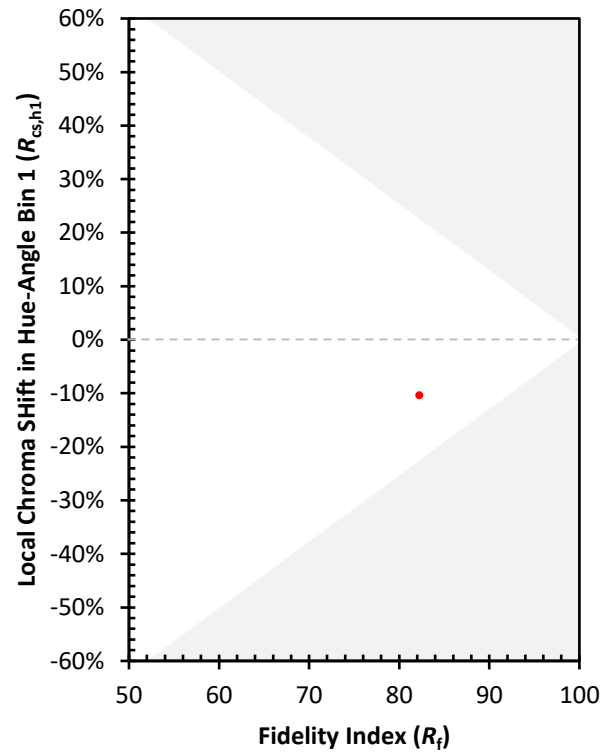
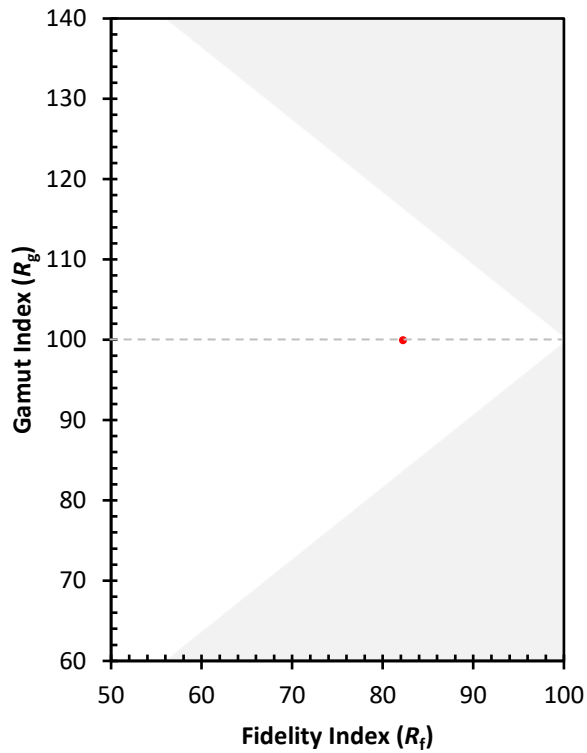
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82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