

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: P1049878

Luminaire Tested: **GALN-SA6B-850-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049878
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-850-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22181.5 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

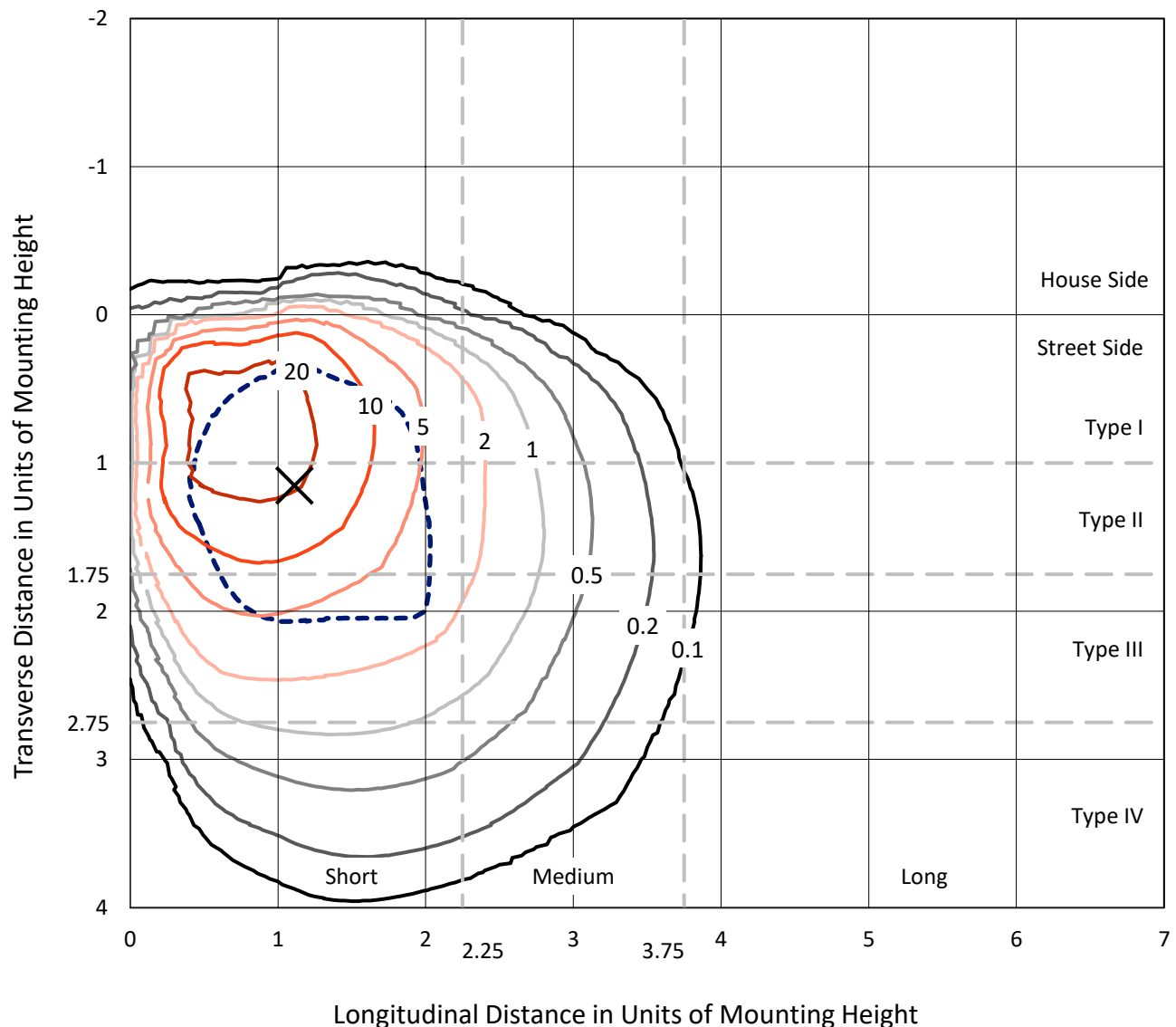
Input Watts (W): 213.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

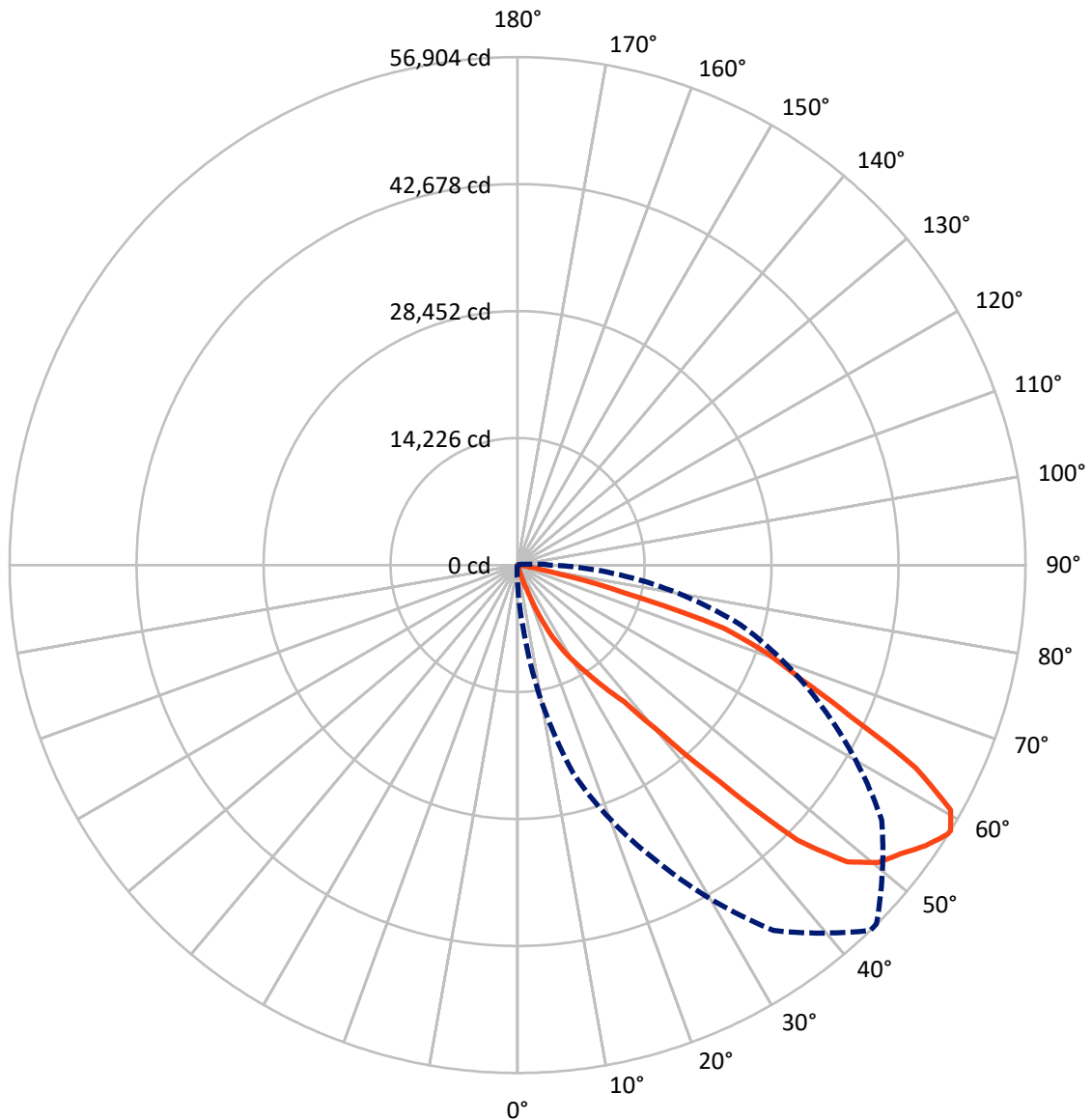
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.6 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	151.5	0.0	151.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	22030.0	0.0	22030.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	22181.5	0.0	22181.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.0
10°-20°	48.6	0.2
20°-30°	525.5	2.4
30°-40°	1554.0	7.0
40°-50°	4631.8	20.9
50°-60°	7349.6	33.1
60°-70°	6130.5	27.6
70°-80°	1890.7	8.5
80°-90°	42.0	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°	22181.5	100.0
0°-180°	22181.5	100.0



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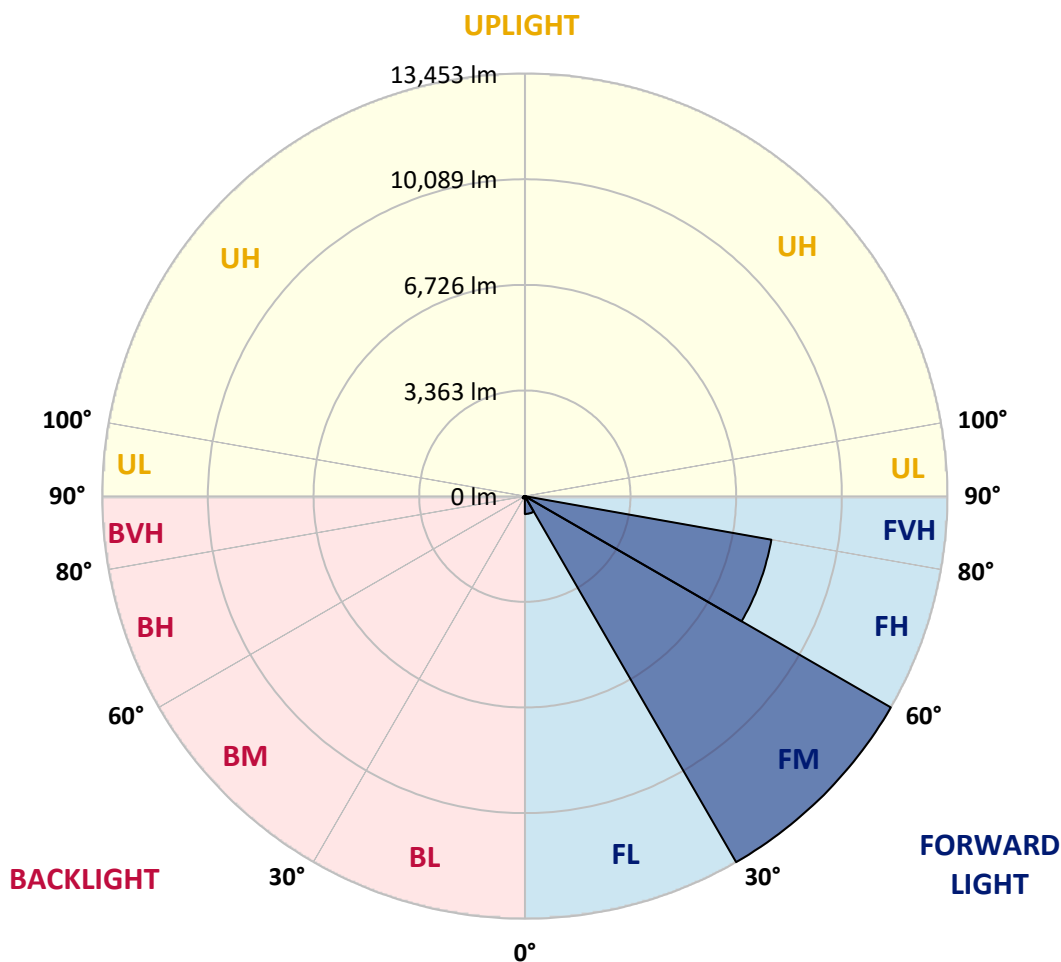
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	568.0	2.6			
FM	(30°-60°)	13452.6	60.6			
FH	(60°-80°)	7969.5	35.9			G4/12000
FVH	(80°-90°)	40.0	0.2			G1/100
BL	(0°-30°)	14.8	0.1	B0/110		
BM	(30°-60°)	82.9	0.4	B0/220		
BH	(60°-80°)	51.7	0.2	B0/110		G0/110
BVH	(80°-90°)	2.0	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°	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2.5°	125.7	125.7	120.6	113.9	107.2	100.5	98.9	95.5	93.8	92.2
5°	130.7	130.7	129.0	124.0	117.3	112.3	112.3	107.2	103.9	100.5
7.5°	134.0	135.7	139.1	137.4	134.0	129.0	129.0	125.7	120.6	112.3
10°	139.1	144.1	150.8	154.2	155.8	155.8	154.2	152.5	144.1	132.4
12.5°	144.1	154.2	170.9	187.7	197.7	211.1	209.5	206.1	184.3	159.2
15°	154.2	169.2	204.4	253.0	328.4	375.3	393.8	377.0	305.0	214.5
17.5°	165.9	191.0	296.6	529.5	868.0	1028.8	1126.0	1047.3	693.7	407.2
20°	177.6	232.9	551.3	1372.3	2252.0	2778.2	2924.0	2696.1	1730.9	775.8
22.5°	197.7	326.7	1117.6	2836.8	4852.6	5641.8	5790.9	5062.1	3269.1	1531.5
25°	239.6	474.2	1927.0	4623.0	7242.0	8574.2	8512.2	7557.1	5303.3	2446.4
27.5°	299.9	690.4	2913.9	6568.4	9530.9	10705.5	10846.3	9665.0	7069.4	3597.6
30°	387.1	956.8	3972.9	8126.8	11365.7	12635.9	12659.3	11437.8	8649.6	4608.0
32.5°	470.8	1208.1	4899.5	9633.1	13173.7	14566.2	14670.1	13167.0	9829.2	5660.3
35°	534.5	1372.3	5837.9	10956.9	14996.8	16915.4	16908.7	15124.2	11226.7	6600.3
37.5°	539.6	1536.5	6687.4	12310.8	17305.8	19454.0	19666.8	17699.6	12915.7	7763.2
40°	527.8	1720.9	7763.2	14422.1	21466.4	24762.3	24950.0	22470.1	16303.8	9753.8
42.5°	541.2	2040.9	9509.2	18321.2	28375.0	33108.6	33470.5	30863.3	22532.1	13815.5
45°	611.6	2642.5	13167.0	24844.4	38222.6	43993.4	43872.8	40117.7	29779.2	19998.5
47.5°	844.5	4115.3	18589.3	31193.4	44516.2	49655.4	49759.3	45169.7	34008.4	24752.3
50°	1298.6	6297.0	23145.4	34549.6	47222.4	52378.3	52281.1	46977.7	35615.3	27093.1
52.5°	1689.0	7875.4	25430.9	35727.6	47569.2	53723.8	53717.1	47453.6	35865.0	27294.2
55°	1786.2	7994.4	25449.3	35791.3	48346.7	55484.9	55706.0	48624.9	36188.4	26416.2
57.5°	1747.7	7077.8	24387.0	36159.9	49730.8	56847.1	56858.9	49759.3	37009.5	25878.3
58°	1714.2	6933.7	24172.5	36369.4	49968.7	56904.1	56875.6	49811.2	37678.0	25858.2
60°	1526.5	6020.5	23336.4	36903.9	49615.2	55734.5	55468.1	48676.8	37579.2	25652.1
62.5°	1199.7	4696.8	22513.7	36285.6	45824.9	50072.6	50183.2	43095.3	34258.1	24450.7
65°	955.1	3500.4	20797.8	31828.4	37735.0	41119.8	41532.0	35044.0	28594.5	20704.0
67.5°	760.7	2530.2	17446.6	25340.4	29859.6	34318.4	34618.3	29422.2	22153.4	15863.1
70°	618.3	1710.8	12042.7	18532.4	24628.3	29641.7	29660.2	24442.3	16535.0	10393.9
72.5°	547.9	1184.7	6990.7	13515.6	19970.1	24154.1	23666.5	19834.3	12707.9	6156.2
75°	474.2	785.9	3428.3	8262.5	12108.0	12190.1	12376.1	9200.8	6352.3	2927.3
77.5°	390.4	558.0	1350.6	2257.1	3631.1	4648.2	4820.8	3652.9	2113.0	720.5
80°	268.1	264.7	363.6	692.0	1038.9	1302.0	1214.8	940.0	553.0	276.5
82.5°	115.6	125.7	164.2	197.7	160.9	155.8	149.1	95.5	73.7	57.0
85°	36.9	33.5	35.2	35.2	28.5	21.8	21.8	10.1	0.0	0.0
87.5°	18.4	15.1	15.1	13.4	8.4	3.4	1.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
97.2	0°	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
90.5	2.5°	88.8	88.8	85.5	82.1	80.4	77.1	75.4	73.7	72.1	70.4
97.2	5°	93.8	92.2	87.1	82.1	77.1	72.1	68.7	65.3	62.0	60.3
107.2	7.5°	102.2	98.9	88.8	80.4	73.7	67.0	63.7	58.6	55.3	50.3
119.0	10°	112.3	105.6	92.2	82.1	72.1	63.7	58.6	53.6	48.6	41.9
135.7	12.5°	125.7	113.9	97.2	80.4	68.7	58.6	53.6	46.9	41.9	36.9
157.5	15°	137.4	122.3	98.9	80.4	65.3	53.6	46.9	40.2	35.2	28.5
197.7	17.5°	154.2	129.0	97.2	75.4	60.3	46.9	40.2	35.2	26.8	16.8
293.2	20°	182.6	134.0	93.8	70.4	51.9	38.5	30.2	23.5	11.7	3.4
440.7	22.5°	227.9	147.5	90.5	63.7	45.2	30.2	20.1	8.4	0.0	0.0
670.2	25°	315.0	170.9	90.5	60.3	40.2	21.8	6.7	0.0	0.0	0.0
951.8	27.5°	418.9	202.8	90.5	51.9	31.8	11.7	0.0	0.0	0.0	0.0
1296.9	30°	524.5	237.9	90.5	45.2	25.1	1.7	0.0	0.0	0.0	0.0
1596.9	32.5°	625.0	268.1	92.2	38.5	16.8	0.0	0.0	0.0	0.0	0.0
2012.4	35°	727.2	273.1	90.5	33.5	10.1	0.0	0.0	0.0	0.0	0.0
2521.8	37.5°	857.9	263.1	85.5	30.2	5.0	0.0	0.0	0.0	0.0	0.0
3317.7	40°	1055.6	268.1	80.4	28.5	1.7	0.0	0.0	0.0	0.0	0.0
4737.0	42.5°	1420.9	289.9	73.7	28.5	0.0	0.0	0.0	0.0	0.0	0.0
7545.3	45°	2456.5	388.7	67.0	30.2	0.0	0.0	0.0	0.0	0.0	0.0
11327.2	47.5°	4063.4	698.7	65.3	30.2	0.0	0.0	0.0	0.0	0.0	0.0
13644.6	50°	5186.0	879.7	68.7	31.8	0.0	0.0	0.0	0.0	0.0	0.0
13934.5	52.5°	5177.7	980.2	72.1	33.5	6.7	0.0	0.0	0.0	0.0	0.0
12843.6	55°	4602.9	998.7	77.1	36.9	21.8	0.0	0.0	0.0	0.0	0.0
11037.3	57.5°	3847.2	911.5	88.8	45.2	40.2	0.0	0.0	0.0	0.0	0.0
10754.1	58°	3713.2	871.3	92.2	46.9	43.6	0.0	0.0	0.0	0.0	0.0
9328.2	60°	3042.9	710.5	117.3	58.6	58.6	0.0	0.0	0.0	0.0	0.0
7647.5	62.5°	2101.2	620.0	134.0	75.4	60.3	0.0	0.0	0.0	0.0	0.0
5638.5	65°	1486.3	559.7	145.8	80.4	48.6	0.0	0.0	0.0	0.0	0.0
4006.4	67.5°	1110.9	516.1	160.9	82.1	25.1	0.0	0.0	0.0	0.0	0.0
2513.4	70°	851.2	484.3	197.7	87.1	6.7	0.0	0.0	0.0	0.0	0.0
1498.0	72.5°	693.7	447.4	239.6	90.5	0.0	0.0	0.0	0.0	0.0	0.0
898.1	75°	574.7	403.8	231.2	98.9	0.0	0.0	0.0	0.0	0.0	0.0
479.2	77.5°	382.0	313.3	211.1	98.9	0.0	0.0	0.0	0.0	0.0	0.0
170.9	80°	134.0	124.0	164.2	87.1	0.0	0.0	0.0	0.0	0.0	0.0
35.2	82.5°	20.1	16.8	23.5	30.2	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
97.2	0°	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
68.7	2.5°	68.7	68.7	67.0	68.7	68.7	72.1	80.4	92.2	105.6	110.6
58.6	5°	57.0	55.3	53.6	53.6	53.6	58.6	65.3	78.8	93.8	100.5
48.6	7.5°	46.9	45.2	43.6	41.9	41.9	45.2	53.6	68.7	83.8	90.5
40.2	10°	38.5	35.2	33.5	31.8	31.8	35.2	43.6	58.6	75.4	82.1
33.5	12.5°	31.8	26.8	23.5	21.8	20.1	25.1	33.5	46.9	65.3	73.7
25.1	15°	21.8	16.8	11.7	10.1	8.4	13.4	21.8	36.9	55.3	65.3
13.4	17.5°	11.7	5.0	1.7	0.0	0.0	3.4	10.1	26.8	45.2	53.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	33.5	41.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	20.1	28.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	15.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.4
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°
97.2	0°	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
115.6	2.5°	119.0	117.3	113.9	110.6	110.6	110.6	115.6	120.6	125.7	125.7
103.9	5°	110.6	110.6	108.9	105.6	105.6	107.2	113.9	122.3	129.0	130.7
95.5	7.5°	102.2	105.6	102.2	100.5	102.2	103.9	110.6	120.6	130.7	134.0
88.8	10°	97.2	98.9	98.9	97.2	97.2	100.5	107.2	120.6	134.0	139.1
80.4	12.5°	90.5	93.8	92.2	92.2	92.2	95.5	103.9	119.0	137.4	144.1
72.1	15°	83.8	88.8	88.8	87.1	87.1	88.8	100.5	117.3	142.4	154.2
62.0	17.5°	77.1	82.1	83.8	80.4	80.4	83.8	95.5	117.3	145.8	165.9
50.3	20°	63.7	72.1	77.1	72.1	72.1	75.4	87.1	110.6	147.5	177.6
36.9	22.5°	50.3	58.6	65.3	63.7	63.7	65.3	80.4	105.6	149.1	197.7
21.8	25°	36.9	45.2	50.3	53.6	53.6	58.6	73.7	102.2	155.8	239.6
10.1	27.5°	21.8	31.8	38.5	41.9	43.6	50.3	68.7	98.9	167.6	299.9
0.0	30°	10.1	18.4	26.8	33.5	33.5	45.2	63.7	95.5	182.6	387.1
0.0	32.5°	0.0	8.4	13.4	23.5	25.1	36.9	58.6	92.2	204.4	470.8
0.0	35°	0.0	0.0	6.7	18.4	18.4	30.2	53.6	88.8	237.9	534.5
0.0	37.5°	0.0	0.0	0.0	13.4	15.1	26.8	51.9	87.1	244.6	539.6
0.0	40°	0.0	0.0	0.0	10.1	11.7	25.1	51.9	88.8	221.2	527.8
0.0	42.5°	0.0	0.0	0.0	6.7	8.4	25.1	51.9	92.2	199.4	541.2
0.0	45°	0.0	0.0	0.0	5.0	6.7	26.8	50.3	90.5	187.7	611.6
0.0	47.5°	0.0	0.0	0.0	6.7	10.1	26.8	48.6	88.8	189.3	844.5
0.0	50°	0.0	0.0	0.0	8.4	11.7	26.8	50.3	85.5	207.8	1298.6
0.0	52.5°	0.0	0.0	0.0	6.7	10.1	30.2	55.3	83.8	226.2	1689.0
0.0	55°	0.0	0.0	0.0	1.7	5.0	38.5	60.3	83.8	254.7	1786.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	43.6	68.7	88.8	301.6	1747.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	43.6	70.4	88.8	305.0	1714.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	43.6	77.1	98.9	328.4	1526.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	36.9	92.2	124.0	341.8	1199.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	30.2	108.9	135.7	351.9	955.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	28.5	112.3	137.4	356.9	760.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	30.2	110.6	147.5	373.7	618.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	33.5	100.5	162.5	373.7	547.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	35.2	93.8	182.6	340.2	474.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	33.5	92.2	212.8	303.3	390.4
0.0	80°	3.4	5.0	5.0	3.4	3.4	28.5	90.5	216.2	258.0	268.1
1.7	82.5°	10.1	13.4	11.7	8.4	8.4	25.1	80.4	181.0	134.0	115.6
10.1	85°	18.4	21.8	21.8	18.4	18.4	23.5	50.3	65.3	45.2	36.9
18.4	87.5°	25.1	28.5	28.5	25.1	25.1	23.5	21.8	20.1	18.4	18.4
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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

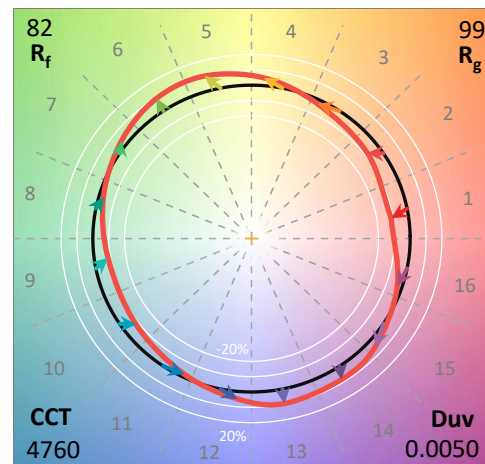
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-12
 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-850-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4760
 CIE u' : 0.2107
 CIE v' : 0.4939
 Duv: 0.0050
 CIE x: 0.3537
 CIE y: 0.3685
 CIE z: 0.2779
 Peak Wavelength (nm): 443
 Dominant Wavelength (nm): 571
 Purity: 16.69598
 R_f: 82
 R_g: 99.4

CRI (Ra): 81.1
 R1: 79.8
 R2: 83.5
 R3: 87.9
 R4: 83.1
 R5: 80.5
 R6: 79.1
 R7: 86.1
 R8: 69.0
 R9: 8.7
 R10: 62.4
 R11: 83.8
 R12: 63.0
 R13: 79.9
 R14: 93.3
 R15: 72.7



Test Conditions

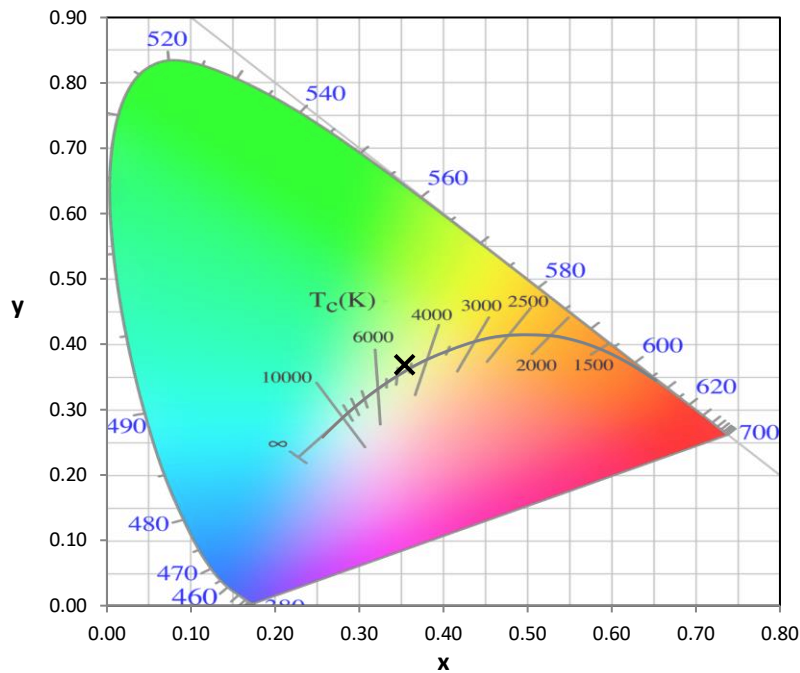
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

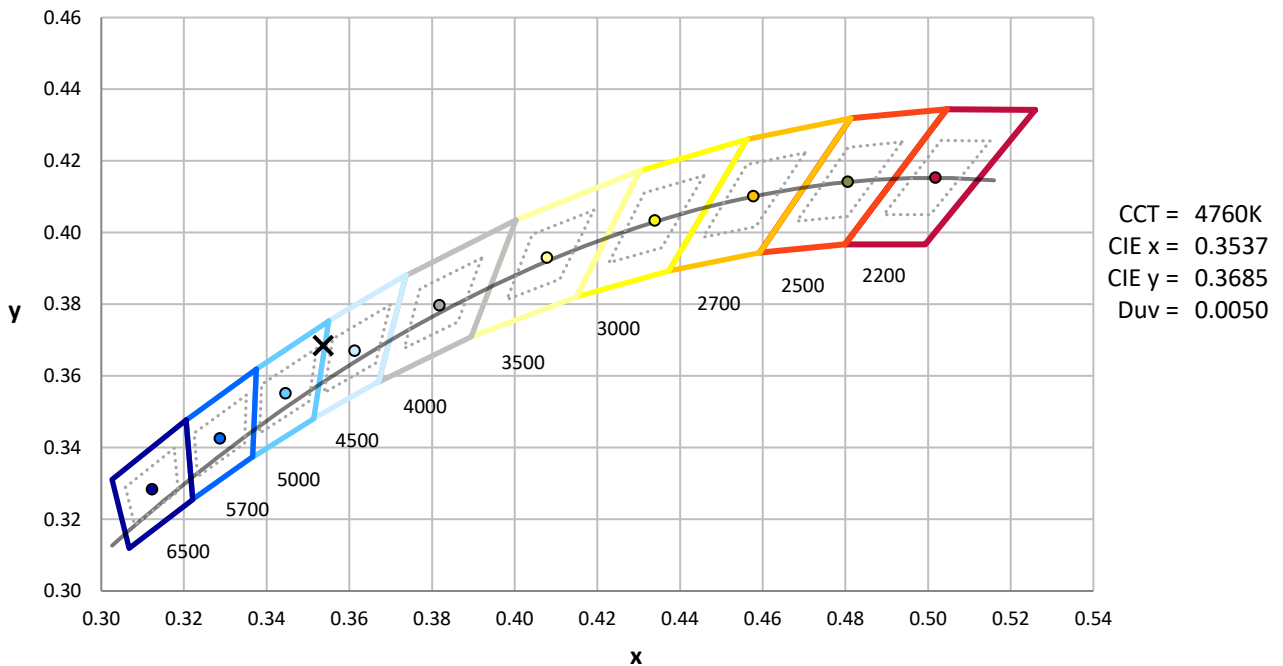
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-12

CIE 1931 Chromaticity Diagram



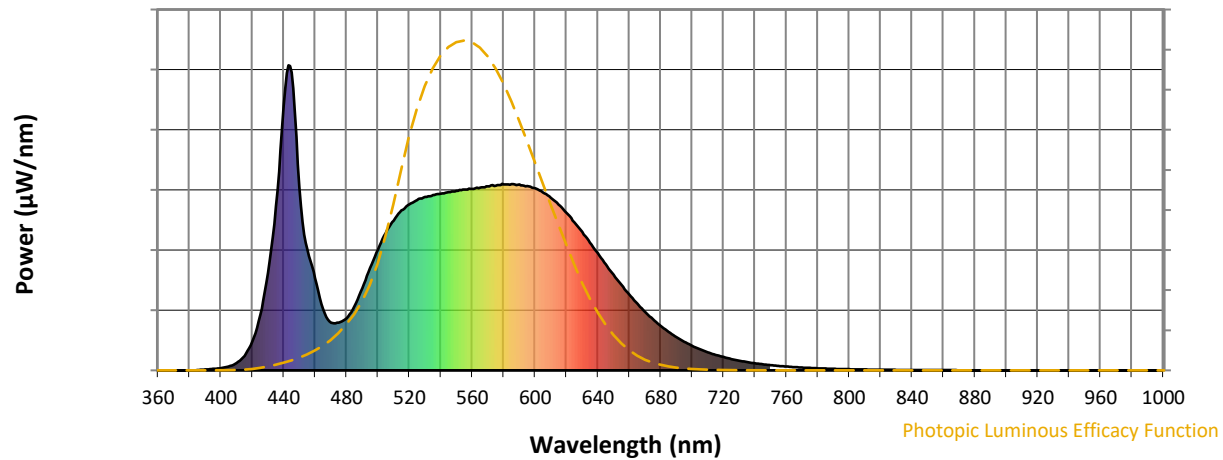
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

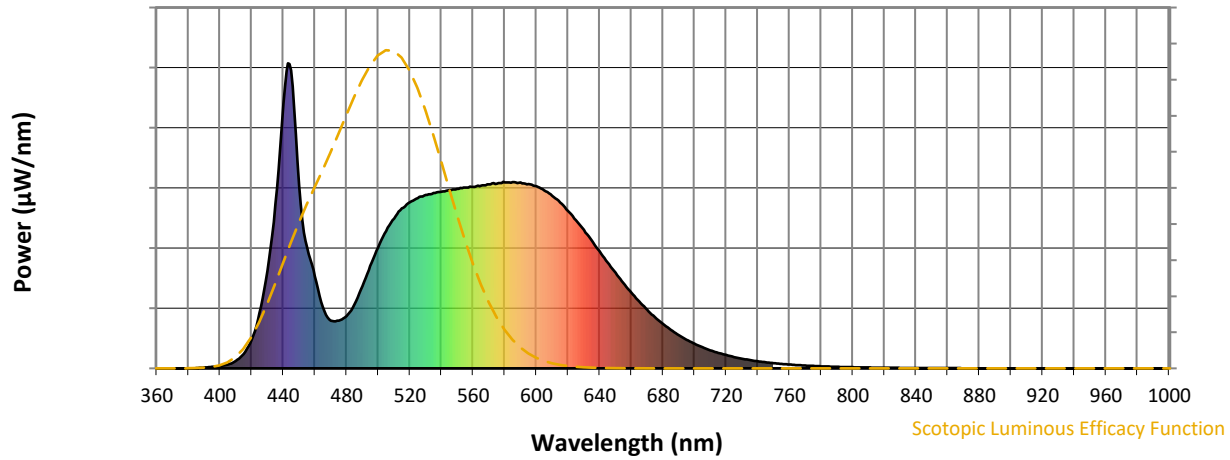


Photopic Lumens: NR

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength



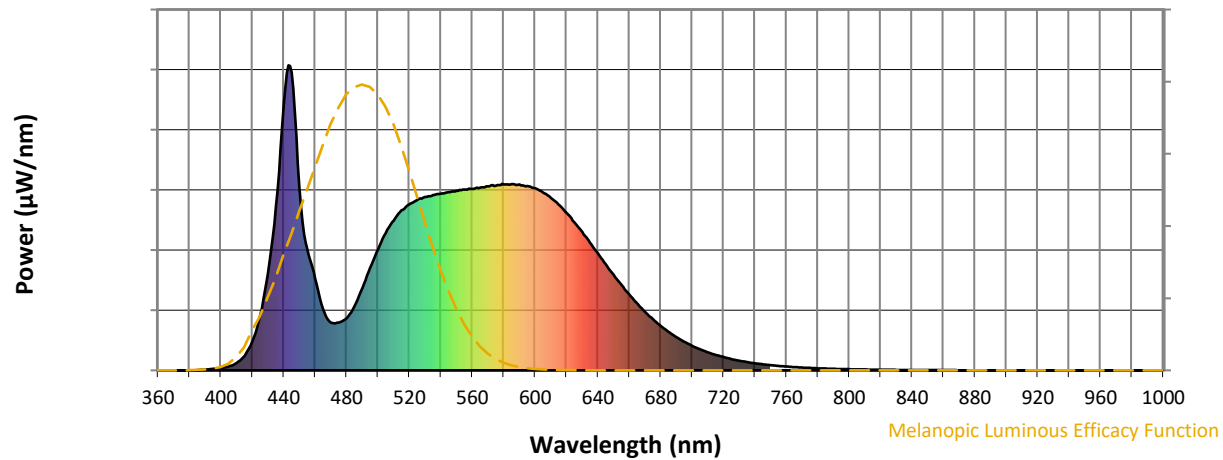
Scotopic Lumens: NR

S/P: 1.83

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

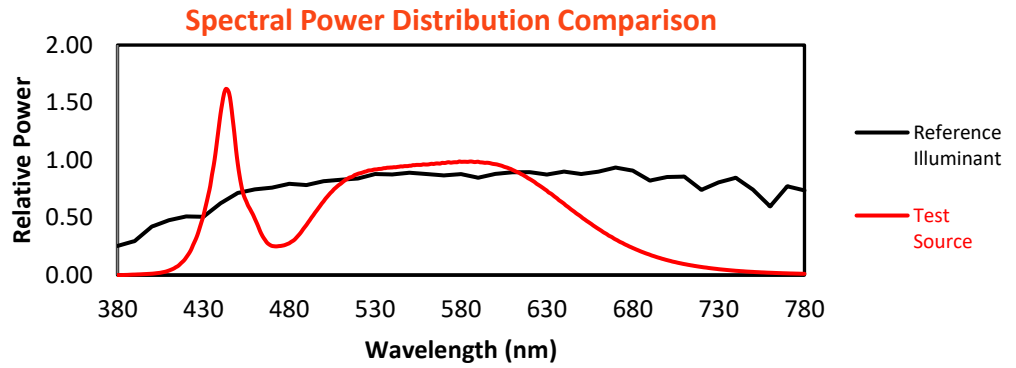
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

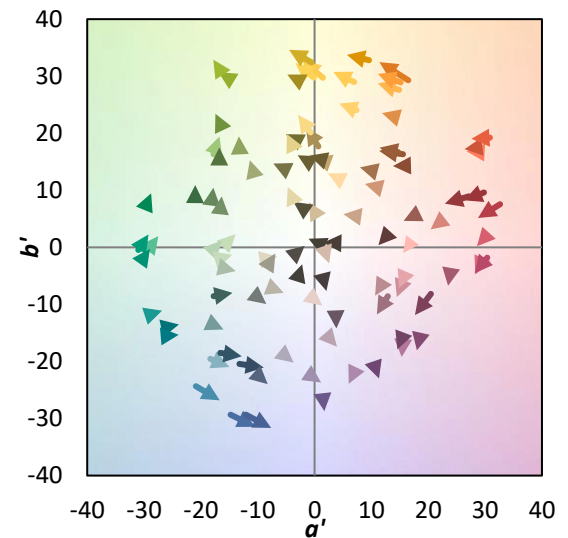
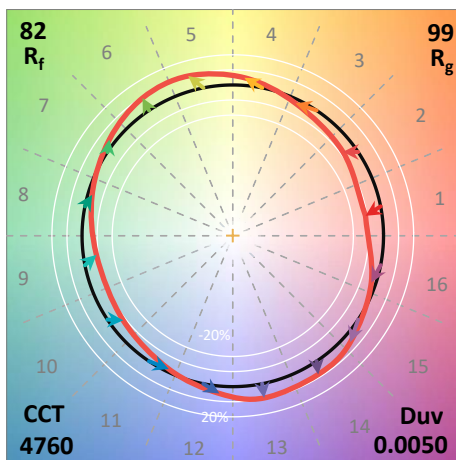
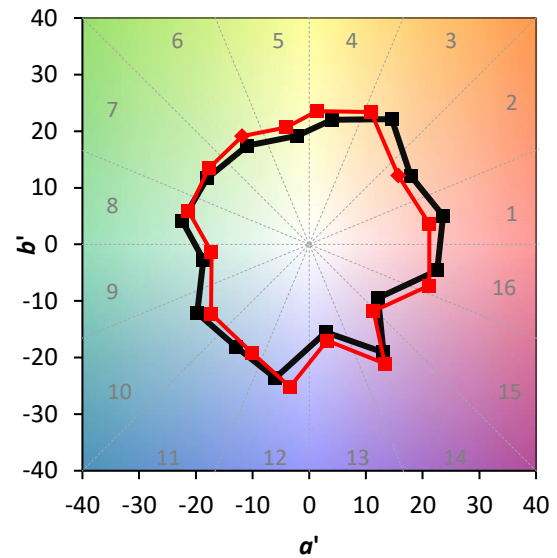
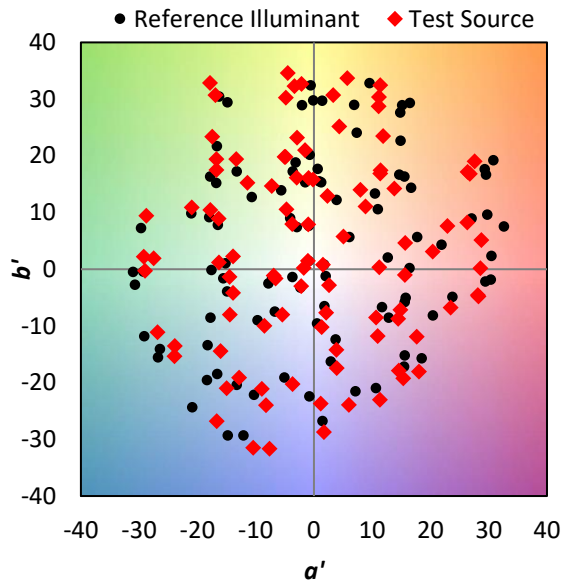
TM-30-18

Summary

$R_f = 82$
 $R_g = 99.4$
 $CIE R_a = 81.1$
 $R_9 = 8.7$

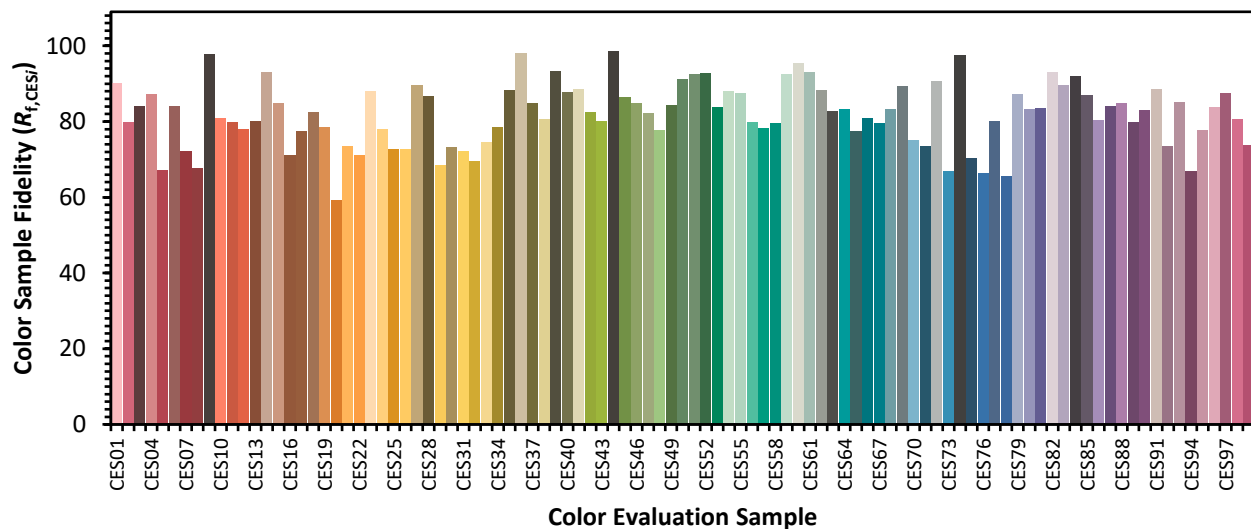


Color Vector Graphics

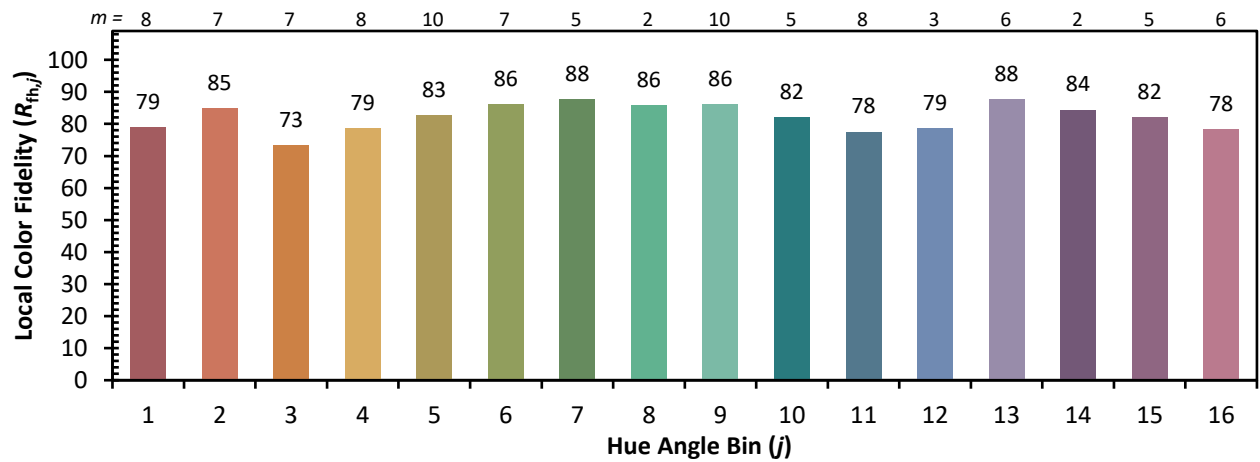
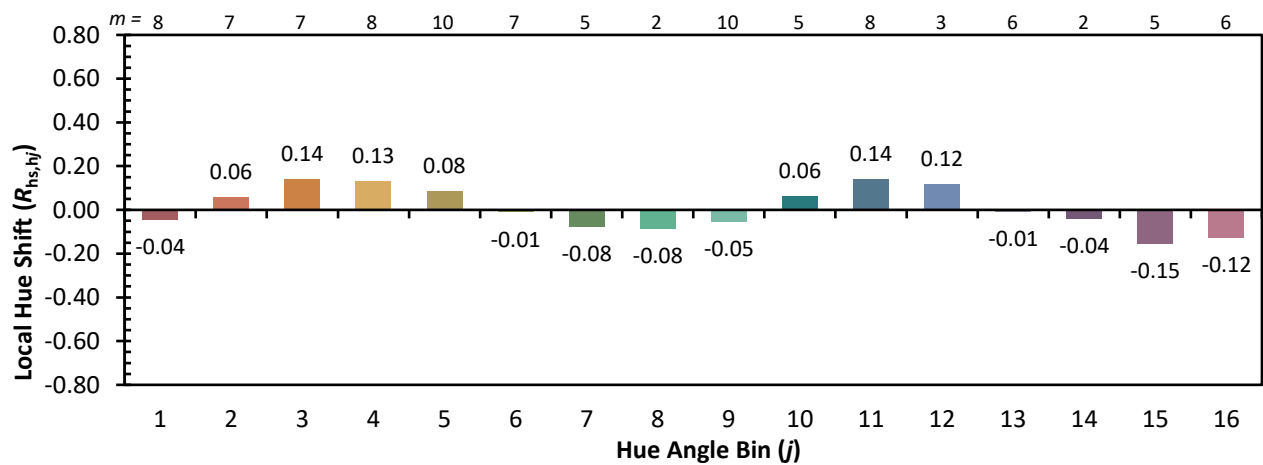
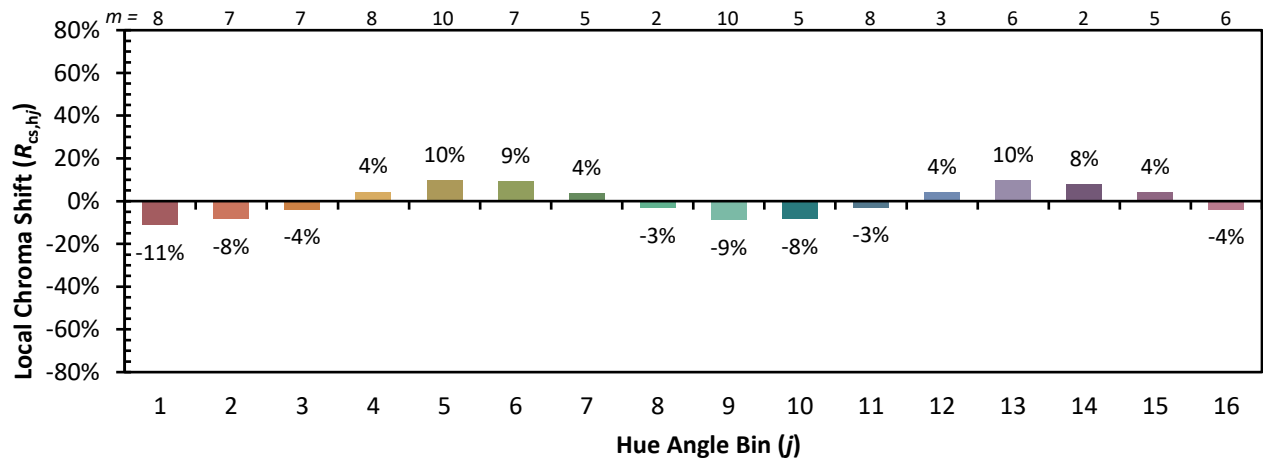


Individual Sample Fidelity Index ($R_{f,i}$)

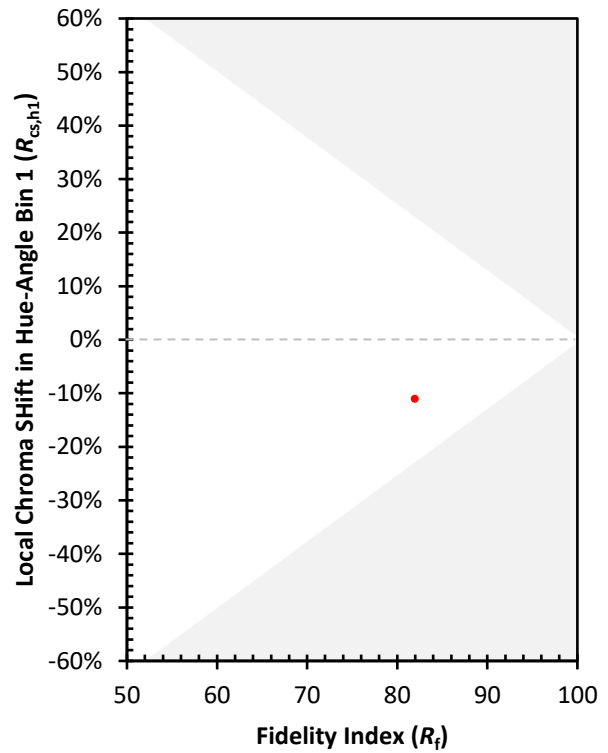
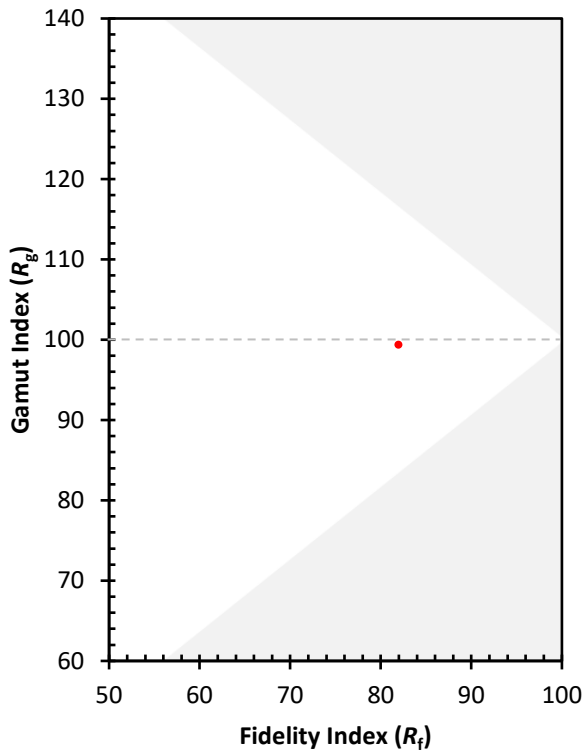
CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
CES23 = 91	CES48 = 78	CES73 = 67	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
CES25 = 71	CES50 = 91	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)