

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: P1050045

Luminaire Tested: **GALN-SA3A-950-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050045
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7915.6 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

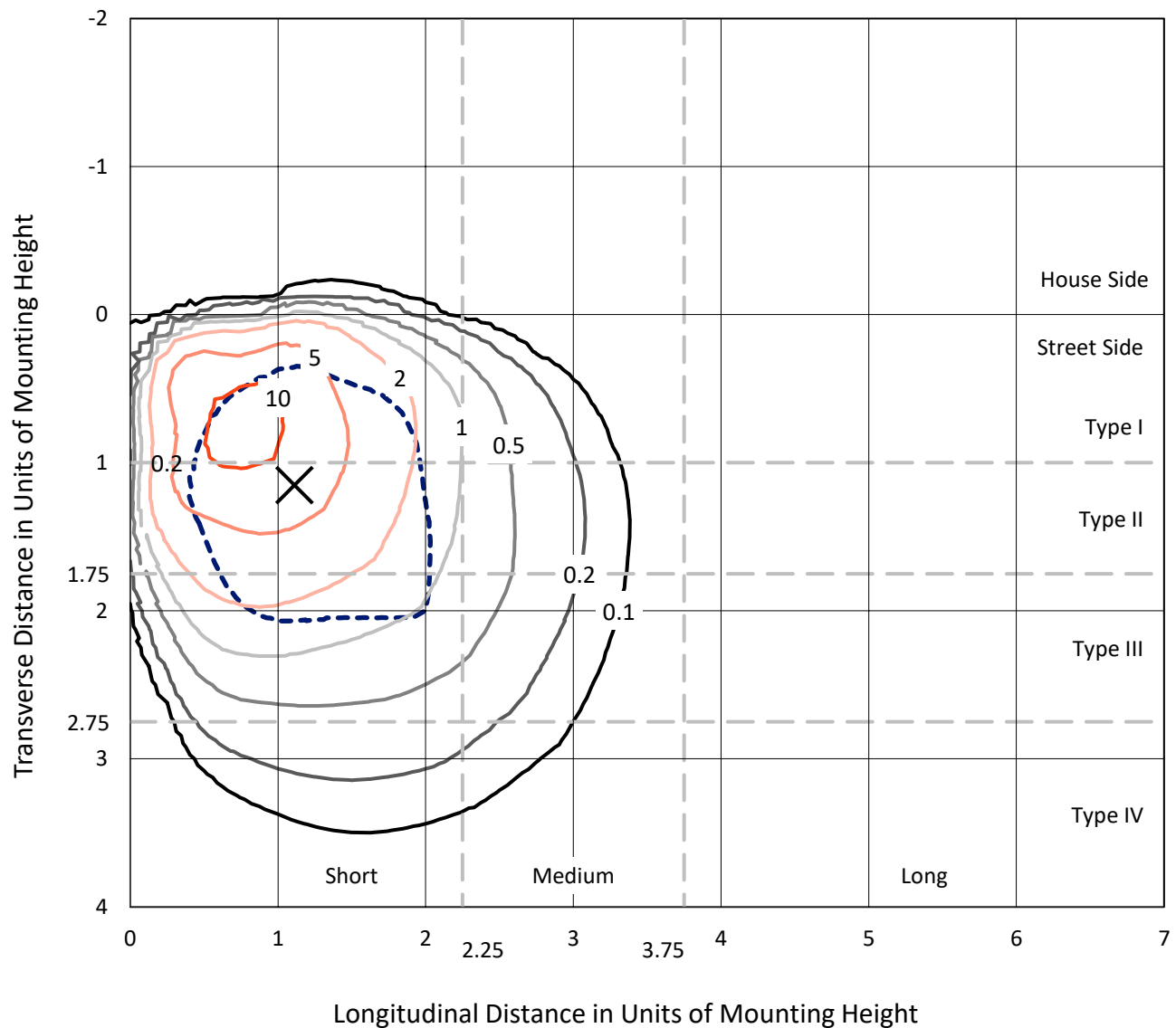
Input Watts (W): 81.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

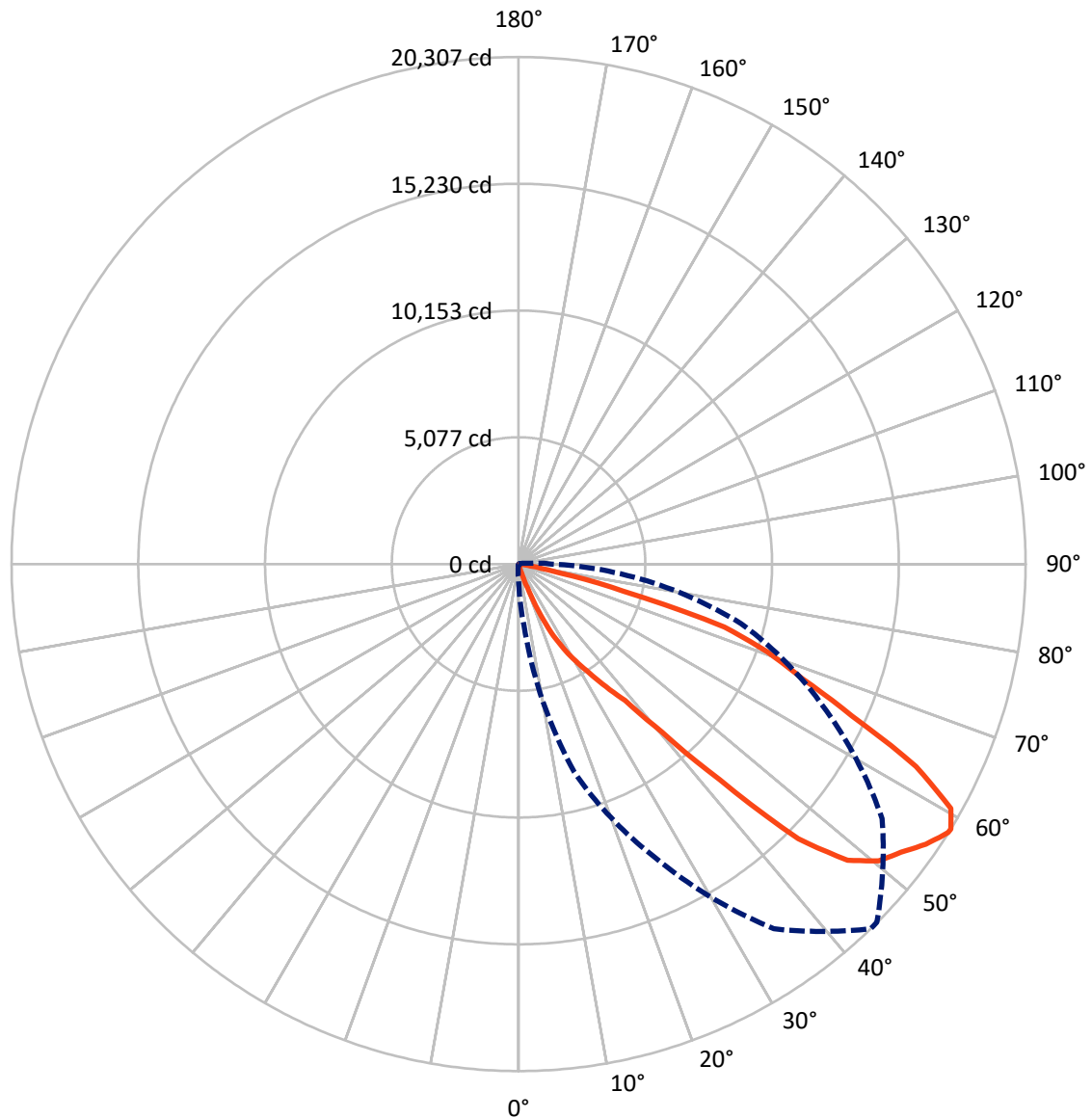
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.8 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	54.1	0.0	54.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	7861.5	0.0	7861.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	7915.6	0.0	7915.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.0
10°-20°	17.4	0.2
20°-30°	187.5	2.4
30°-40°	554.6	7.0
40°-50°	1652.9	20.9
50°-60°	2622.7	33.1
60°-70°	2187.7	27.6
70°-80°	674.7	8.5
80°-90°	15.0	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°	7915.6	100.0
0°-180°	7915.6	100.0



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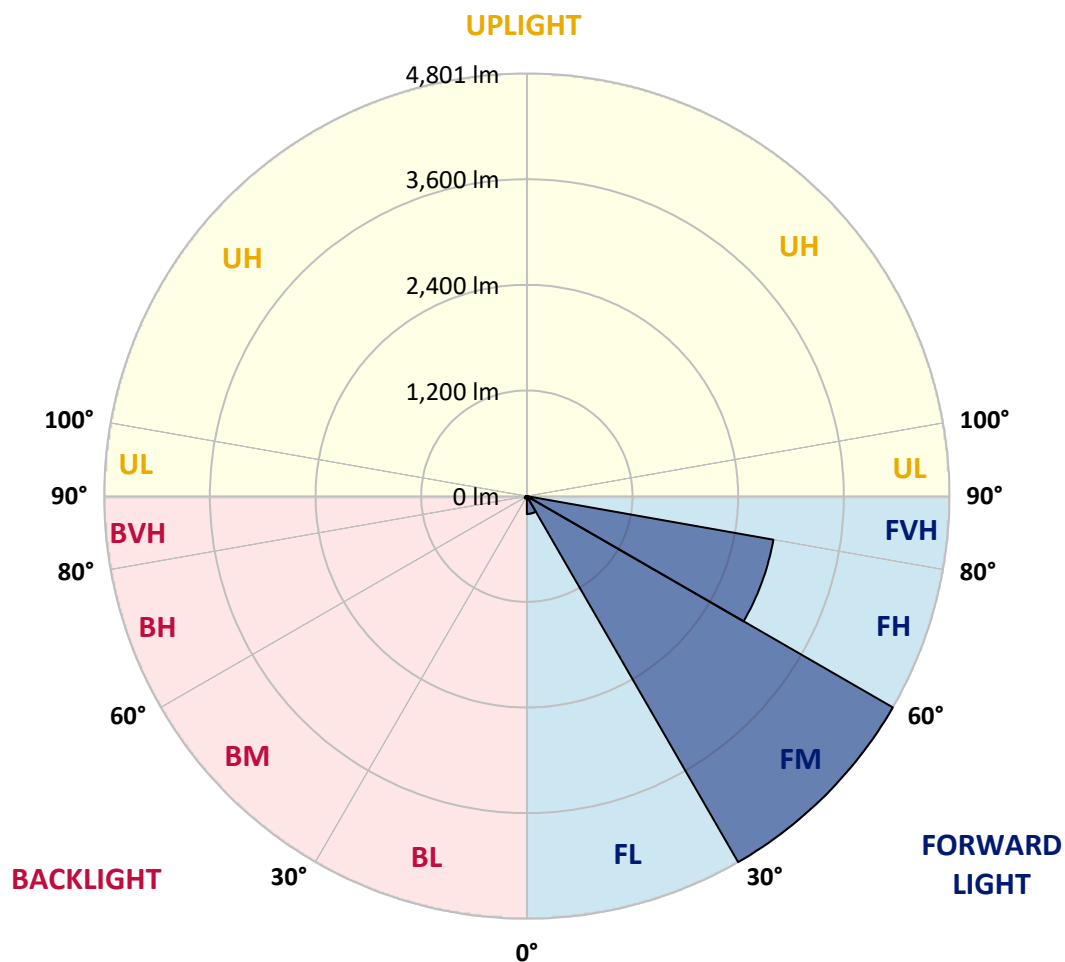
CATALOG NUMBER: GALN-SA3A-950-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	202.7	2.6			
FM	(30°-60°)	4800.6	60.6			
FH	(60°-80°)	2843.9	35.9			G2/5000
FVH	(80°-90°)	14.3	0.2			G1/100
BL	(0°-30°)	5.3	0.1	B0/110		
BM	(30°-60°)	29.6	0.4	B0/220		
BH	(60°-80°)	18.5	0.2	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
2.5°	44.8	44.8	43.1	40.7	38.3	35.9	35.3	34.1	33.5	32.9
5°	46.6	46.6	46.0	44.2	41.9	40.1	40.1	38.3	37.1	35.9
7.5°	47.8	48.4	49.6	49.0	47.8	46.0	46.0	44.8	43.1	40.1
10°	49.6	51.4	53.8	55.0	55.6	55.6	55.0	54.4	51.4	47.2
12.5°	51.4	55.0	61.0	67.0	70.6	75.3	74.7	73.5	65.8	56.8
15°	55.0	60.4	73.0	90.3	117.2	133.9	140.5	134.5	108.8	76.5
17.5°	59.2	68.2	105.8	189.0	309.7	367.1	401.8	373.7	247.6	145.3
20°	63.4	83.1	196.7	489.7	803.6	991.4	1043.4	962.1	617.7	276.9
22.5°	70.6	116.6	398.8	1012.3	1731.7	2013.3	2066.5	1806.4	1166.6	546.5
25°	85.5	169.2	687.6	1649.8	2584.4	3059.7	3037.6	2696.8	1892.5	873.0
27.5°	107.0	246.4	1039.8	2344.0	3401.2	3820.3	3870.6	3449.0	2522.8	1283.8
30°	138.1	341.4	1417.7	2900.1	4055.9	4509.2	4517.5	4081.6	3086.6	1644.4
32.5°	168.0	431.1	1748.4	3437.6	4701.1	5198.0	5235.1	4698.7	3507.6	2019.9
35°	190.7	489.7	2083.3	3910.0	5351.7	6036.3	6033.9	5397.1	4006.3	2355.3
37.5°	192.5	548.3	2386.4	4393.2	6175.7	6942.2	7018.2	6316.2	4609.0	2770.3
40°	188.4	614.1	2770.3	5146.6	7660.4	8836.6	8903.5	8018.6	5818.1	3480.7
42.5°	193.1	728.3	3393.4	6538.0	10125.7	11815.0	11944.1	11013.7	8040.7	4930.1
45°	218.3	943.0	4698.7	8865.9	13639.9	15699.3	15656.2	14316.2	10626.8	7136.6
47.5°	301.4	1468.6	6633.7	11131.5	15885.8	17719.8	17756.8	16119.0	12136.1	8833.0
50°	463.4	2247.1	8259.5	12329.2	16851.5	18691.4	18656.7	16764.2	12709.5	9668.3
52.5°	602.7	2810.4	9075.1	12749.6	16975.3	19171.6	19169.2	16934.0	12798.6	9740.1
55°	637.4	2852.8	9081.7	12772.3	17252.7	19800.0	19879.0	17352.0	12914.0	9426.7
57.5°	623.7	2525.8	8702.6	12903.8	17746.7	20286.2	20290.4	17756.8	13207.0	9234.8
58°	611.7	2474.3	8626.1	12978.6	17831.6	20306.5	20296.3	17775.4	13445.6	9227.6
60°	544.7	2148.4	8327.7	13169.3	17705.4	19889.1	19794.1	17370.5	13410.3	9154.1
62.5°	428.1	1676.1	8034.1	12948.7	16352.8	17868.6	17908.1	15378.8	12225.2	8725.3
65°	340.8	1249.1	7421.8	11358.1	13465.9	14673.8	14820.9	12505.6	10204.1	7388.3
67.5°	271.5	902.9	6225.9	9042.8	10655.5	12246.7	12353.7	10499.5	7905.5	5660.8
70°	220.6	610.5	4297.5	6613.4	8788.7	10577.8	10584.4	8722.3	5900.6	3709.1
72.5°	195.5	422.8	2494.7	4823.1	7126.4	8619.5	8445.5	7078.0	4534.9	2196.9
75°	169.2	280.4	1223.4	2948.5	4320.8	4350.1	4416.5	3283.4	2266.8	1044.6
77.5°	139.3	199.1	482.0	805.4	1295.8	1658.7	1720.3	1303.5	754.0	257.1
80°	95.7	94.5	129.8	247.0	370.7	464.6	433.5	335.5	197.3	98.7
82.5°	41.3	44.8	58.6	70.6	57.4	55.6	53.2	34.1	26.3	20.3
85°	13.2	12.0	12.6	12.6	10.2	7.8	7.8	3.6	0.0	0.0
87.5°	6.6	5.4	5.4	4.8	3.0	1.2	0.6	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°
34.7	0°	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
32.3	2.5°	31.7	31.7	30.5	29.3	28.7	27.5	26.9	26.3	25.7	25.1
34.7	5°	33.5	32.9	31.1	29.3	27.5	25.7	24.5	23.3	22.1	21.5
38.3	7.5°	36.5	35.3	31.7	28.7	26.3	23.9	22.7	20.9	19.7	17.9
42.5	10°	40.1	37.7	32.9	29.3	25.7	22.7	20.9	19.1	17.3	14.9
48.4	12.5°	44.8	40.7	34.7	28.7	24.5	20.9	19.1	16.7	14.9	13.2
56.2	15°	49.0	43.7	35.3	28.7	23.3	19.1	16.7	14.4	12.6	10.2
70.6	17.5°	55.0	46.0	34.7	26.9	21.5	16.7	14.4	12.6	9.6	6.0
104.6	20°	65.2	47.8	33.5	25.1	18.5	13.8	10.8	8.4	4.2	1.2
157.3	22.5°	81.3	52.6	32.3	22.7	16.1	10.8	7.2	3.0	0.0	0.0
239.2	25°	112.4	61.0	32.3	21.5	14.4	7.8	2.4	0.0	0.0	0.0
339.6	27.5°	149.5	72.4	32.3	18.5	11.4	4.2	0.0	0.0	0.0	0.0
462.8	30°	187.2	84.9	32.3	16.1	9.0	0.6	0.0	0.0	0.0	0.0
569.8	32.5°	223.0	95.7	32.9	13.8	6.0	0.0	0.0	0.0	0.0	0.0
718.1	35°	259.5	97.5	32.3	12.0	3.6	0.0	0.0	0.0	0.0	0.0
899.9	37.5°	306.2	93.9	30.5	10.8	1.8	0.0	0.0	0.0	0.0	0.0
1183.9	40°	376.7	95.7	28.7	10.2	0.6	0.0	0.0	0.0	0.0	0.0
1690.4	42.5°	507.1	103.4	26.3	10.2	0.0	0.0	0.0	0.0	0.0	0.0
2692.6	45°	876.6	138.7	23.9	10.8	0.0	0.0	0.0	0.0	0.0	0.0
4042.2	47.5°	1450.0	249.3	23.3	10.8	0.0	0.0	0.0	0.0	0.0	0.0
4869.1	50°	1850.7	313.9	24.5	11.4	0.0	0.0	0.0	0.0	0.0	0.0
4972.6	52.5°	1847.7	349.8	25.7	12.0	2.4	0.0	0.0	0.0	0.0	0.0
4583.3	55°	1642.6	356.4	27.5	13.2	7.8	0.0	0.0	0.0	0.0	0.0
3938.7	57.5°	1372.9	325.3	31.7	16.1	14.4	0.0	0.0	0.0	0.0	0.0
3837.7	58°	1325.1	310.9	32.9	16.7	15.5	0.0	0.0	0.0	0.0	0.0
3328.8	60°	1085.9	253.5	41.9	20.9	20.9	0.0	0.0	0.0	0.0	0.0
2729.1	62.5°	749.8	221.2	47.8	26.9	21.5	0.0	0.0	0.0	0.0	0.0
2012.1	65°	530.4	199.7	52.0	28.7	17.3	0.0	0.0	0.0	0.0	0.0
1429.7	67.5°	396.4	184.2	57.4	29.3	9.0	0.0	0.0	0.0	0.0	0.0
896.9	70°	303.8	172.8	70.6	31.1	2.4	0.0	0.0	0.0	0.0	0.0
534.6	72.5°	247.6	159.7	85.5	32.3	0.0	0.0	0.0	0.0	0.0	0.0
320.5	75°	205.1	144.1	82.5	35.3	0.0	0.0	0.0	0.0	0.0	0.0
171.0	77.5°	136.3	111.8	75.3	35.3	0.0	0.0	0.0	0.0	0.0	0.0
61.0	80°	47.8	44.2	58.6	31.1	0.0	0.0	0.0	0.0	0.0	0.0
12.6	82.5°	7.2	6.0	8.4	10.8	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°
34.7	0°	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
24.5	2.5°	24.5	24.5	23.9	24.5	24.5	25.7	28.7	32.9	37.7	39.5
20.9	5°	20.3	19.7	19.1	19.1	19.1	20.9	23.3	28.1	33.5	35.9
17.3	7.5°	16.7	16.1	15.5	14.9	14.9	16.1	19.1	24.5	29.9	32.3
14.4	10°	13.8	12.6	12.0	11.4	11.4	12.6	15.5	20.9	26.9	29.3
12.0	12.5°	11.4	9.6	8.4	7.8	7.2	9.0	12.0	16.7	23.3	26.3
9.0	15°	7.8	6.0	4.2	3.6	3.0	4.8	7.8	13.2	19.7	23.3
4.8	17.5°	4.2	1.8	0.6	0.0	0.0	1.2	3.6	9.6	16.1	19.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	12.0	14.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	7.2	10.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	5.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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	1.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	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



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CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
34.7	0°	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
41.3	2.5°	42.5	41.9	40.7	39.5	39.5	39.5	41.3	43.1	44.8	44.8
37.1	5°	39.5	39.5	38.9	37.7	37.7	38.3	40.7	43.7	46.0	46.6
34.1	7.5°	36.5	37.7	36.5	35.9	36.5	37.1	39.5	43.1	46.6	47.8
31.7	10°	34.7	35.3	35.3	34.7	34.7	35.9	38.3	43.1	47.8	49.6
28.7	12.5°	32.3	33.5	32.9	32.9	32.9	34.1	37.1	42.5	49.0	51.4
25.7	15°	29.9	31.7	31.7	31.1	31.1	31.7	35.9	41.9	50.8	55.0
22.1	17.5°	27.5	29.3	29.9	28.7	28.7	29.9	34.1	41.9	52.0	59.2
17.9	20°	22.7	25.7	27.5	25.7	25.7	26.9	31.1	39.5	52.6	63.4
13.2	22.5°	17.9	20.9	23.3	22.7	22.7	23.3	28.7	37.7	53.2	70.6
7.8	25°	13.2	16.1	17.9	19.1	19.1	20.9	26.3	36.5	55.6	85.5
3.6	27.5°	7.8	11.4	13.8	14.9	15.5	17.9	24.5	35.3	59.8	107.0
0.0	30°	3.6	6.6	9.6	12.0	12.0	16.1	22.7	34.1	65.2	138.1
0.0	32.5°	0.0	3.0	4.8	8.4	9.0	13.2	20.9	32.9	73.0	168.0
0.0	35°	0.0	0.0	2.4	6.6	6.6	10.8	19.1	31.7	84.9	190.7
0.0	37.5°	0.0	0.0	0.0	4.8	5.4	9.6	18.5	31.1	87.3	192.5
0.0	40°	0.0	0.0	0.0	3.6	4.2	9.0	18.5	31.7	78.9	188.4
0.0	42.5°	0.0	0.0	0.0	2.4	3.0	9.0	18.5	32.9	71.2	193.1
0.0	45°	0.0	0.0	0.0	1.8	2.4	9.6	17.9	32.3	67.0	218.3
0.0	47.5°	0.0	0.0	0.0	2.4	3.6	9.6	17.3	31.7	67.6	301.4
0.0	50°	0.0	0.0	0.0	3.0	4.2	9.6	17.9	30.5	74.1	463.4
0.0	52.5°	0.0	0.0	0.0	2.4	3.6	10.8	19.7	29.9	80.7	602.7
0.0	55°	0.0	0.0	0.0	0.6	1.8	13.8	21.5	29.9	90.9	637.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	15.5	24.5	31.7	107.6	623.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	15.5	25.1	31.7	108.8	611.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	15.5	27.5	35.3	117.2	544.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	13.2	32.9	44.2	122.0	428.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	10.8	38.9	48.4	125.6	340.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	10.2	40.1	49.0	127.4	271.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	10.8	39.5	52.6	133.3	220.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	12.0	35.9	58.0	133.3	195.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	12.6	33.5	65.2	121.4	169.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	12.0	32.9	75.9	108.2	139.3
0.0	80°	1.2	1.8	1.8	1.2	1.2	10.2	32.3	77.1	92.1	95.7
0.6	82.5°	3.6	4.8	4.2	3.0	3.0	9.0	28.7	64.6	47.8	41.3
3.6	85°	6.6	7.8	7.8	6.6	6.6	8.4	17.9	23.3	16.1	13.2
6.6	87.5°	9.0	10.2	10.2	9.0	9.0	8.4	7.8	7.2	6.6	6.6
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: SP1-2407-184-17

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-950-U-5WQ

Data in this report applies to families of products including GSS-SB1A-950-U-5WQ

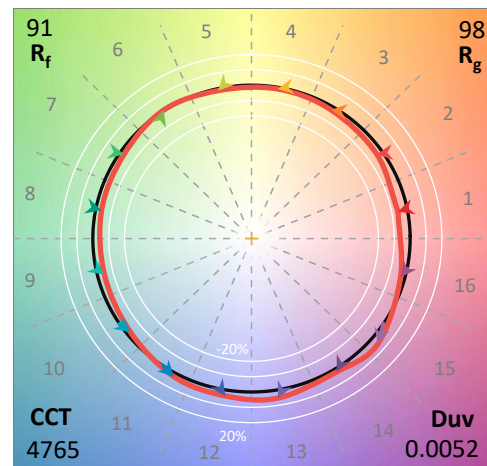
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-17
 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-950-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4765
 CIE u' : 0.2105
 CIE v' : 0.4941
 Duv: 0.0052
 CIE x: 0.3536
 CIE y: 0.3689
 CIE z: 0.2775
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 571
 Purity: 16.80041
 R_f: 90.7
 R_g: 98

CRI (Ra): 90.8
 R1: 89.8
 R2: 93.1
 R3: 95.3
 R4: 90.3
 R5: 89.0
 R6: 89.7
 R7: 94.9
 R8: 84.0
 R9: 54.9
 R10: 83.0
 R11: 89.6
 R12: 68.0
 R13: 90.6
 R14: 97.3
 R15: 86.2



Test Conditions

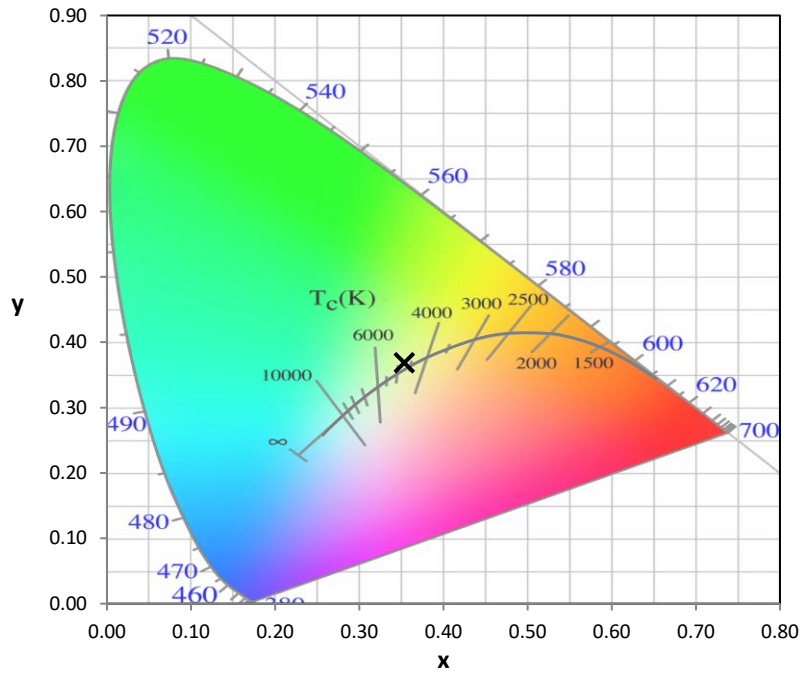
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

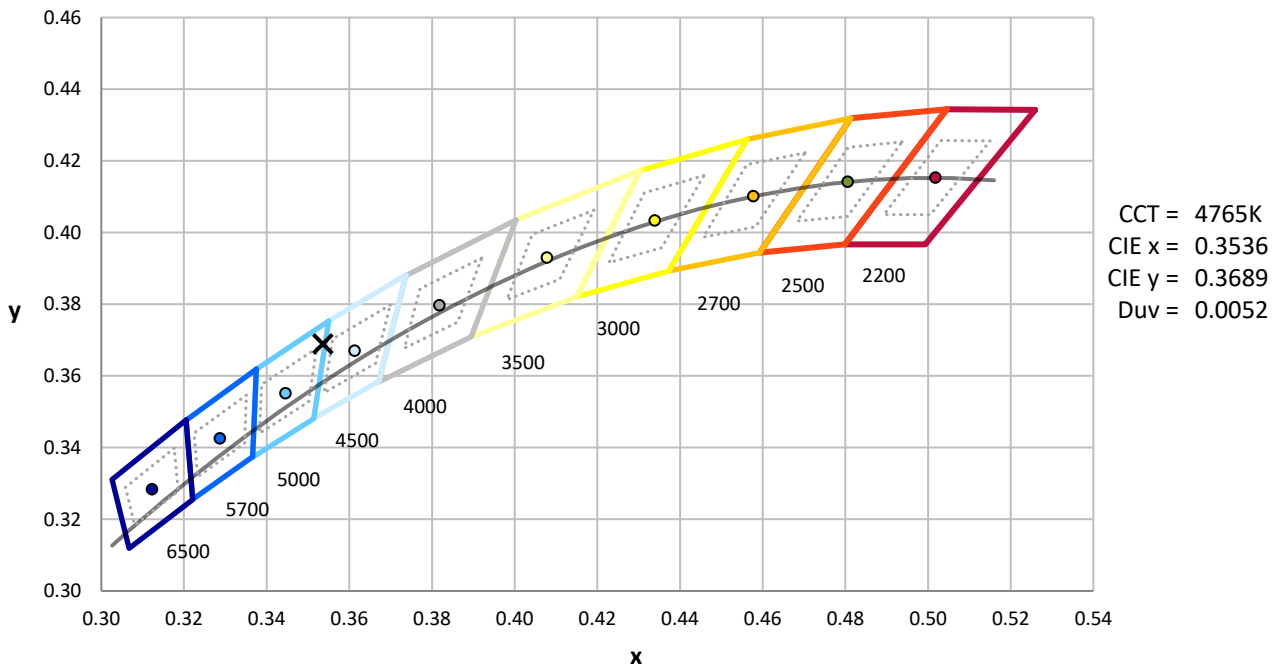
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



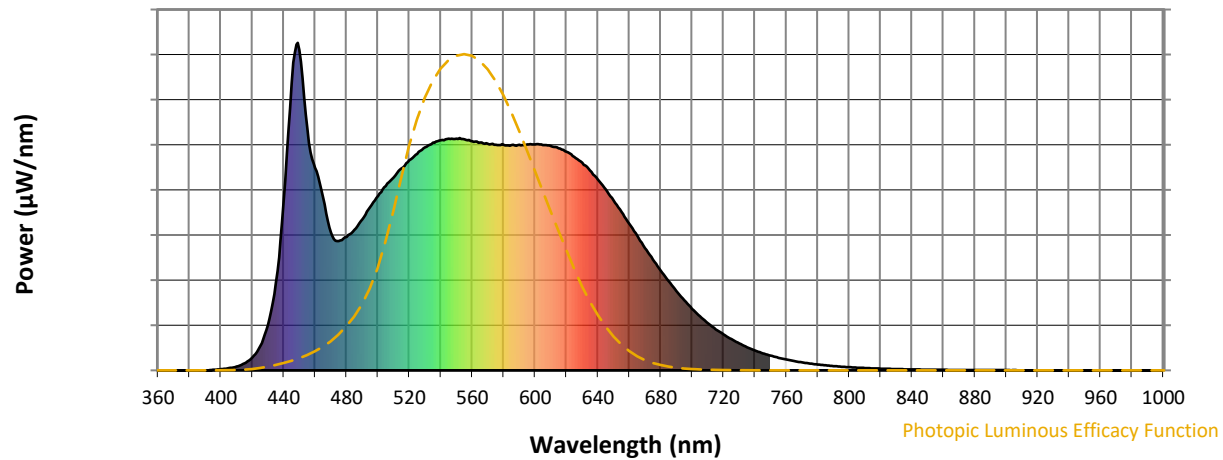
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

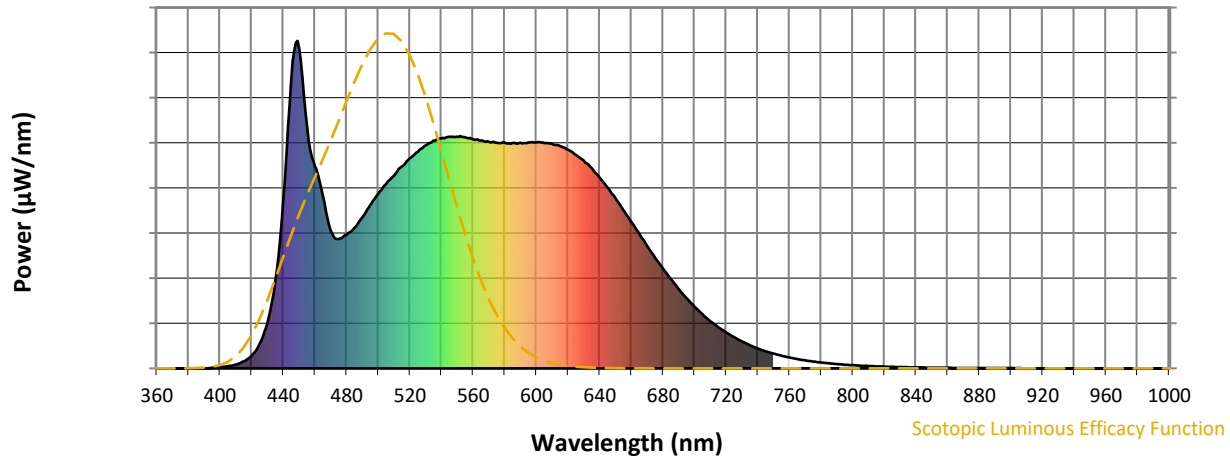


Photopic Lumens: NR

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

Scotopic Flux vs. Wavelength



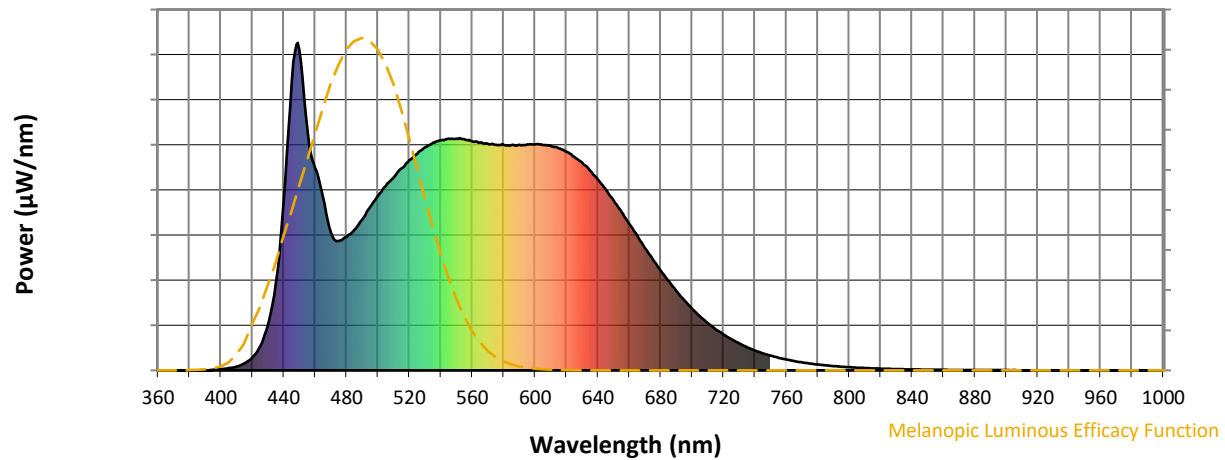
Scotopic Lumens: NR

S/P: 1.99

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 4.22

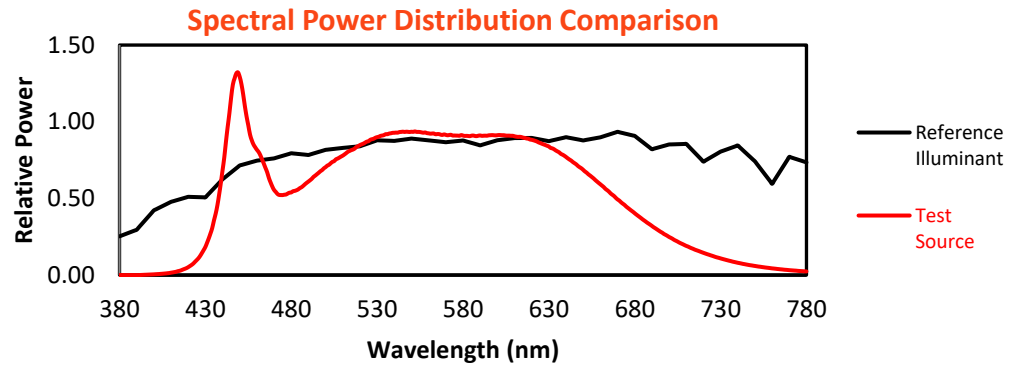
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

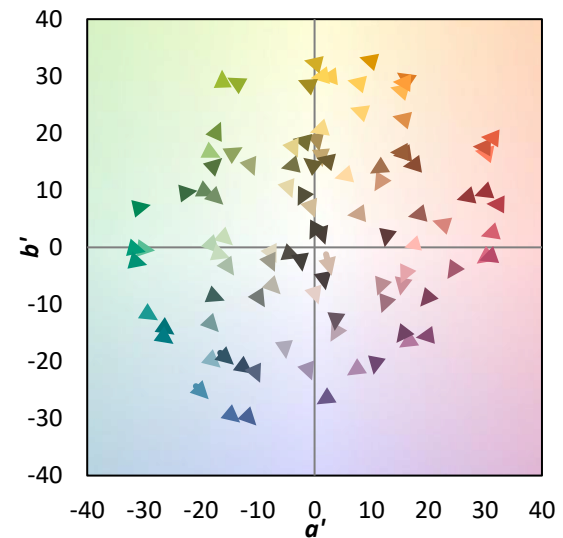
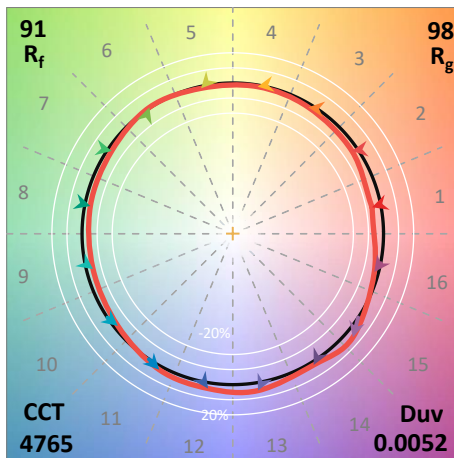
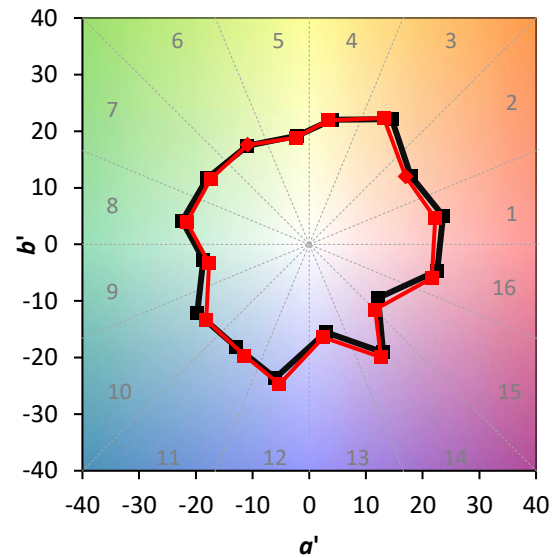
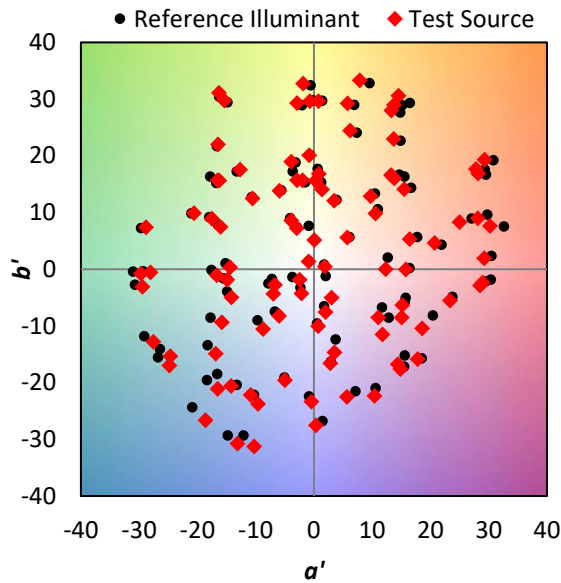
TM-30-18

Summary

$R_f = 90.7$
 $R_g = 98$
 CIE $R_a = 90.8$
 $R_9 = 54.9$

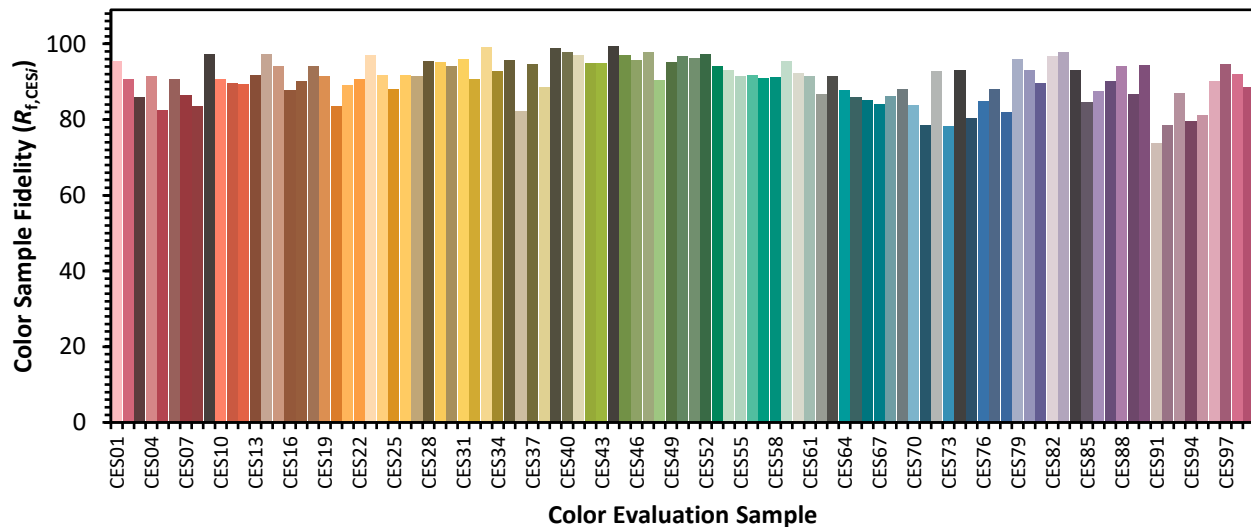


Color Vector Graphics

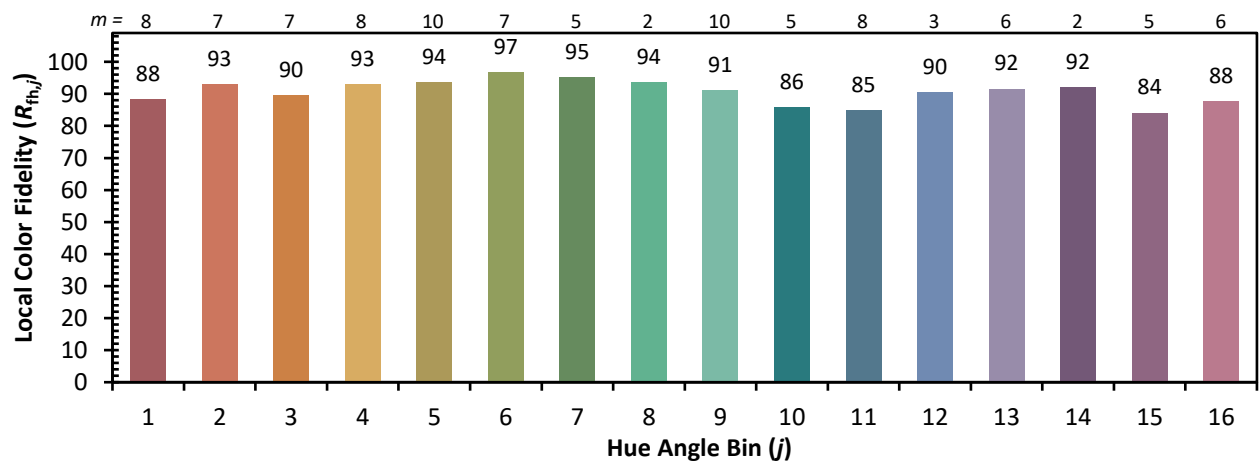
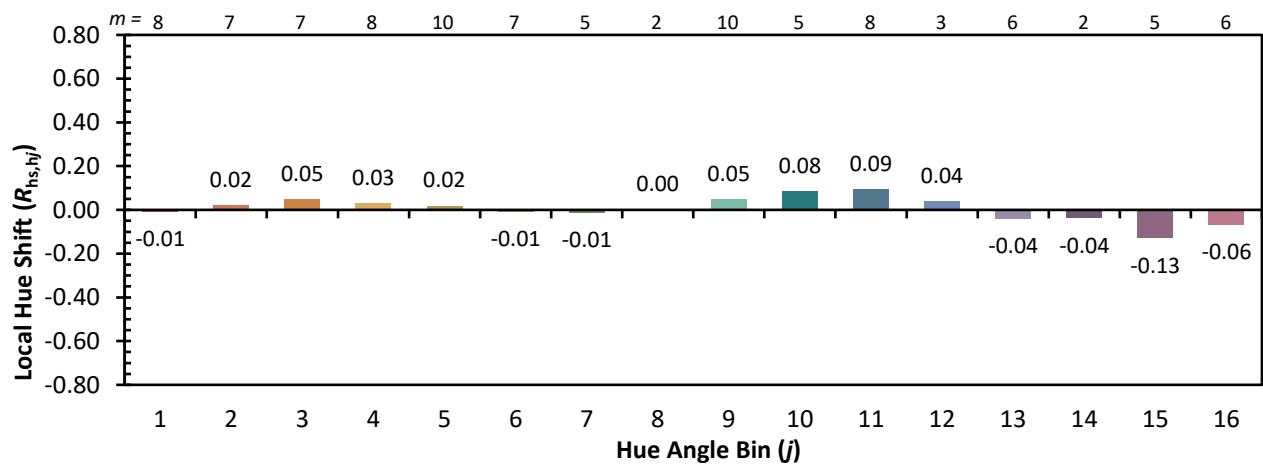
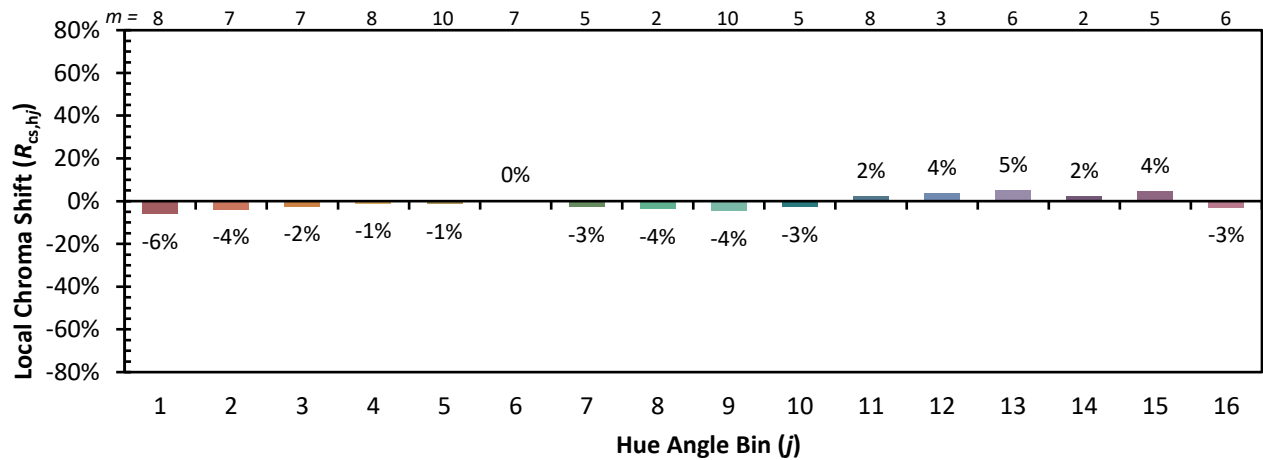


Individual Sample Fidelity Index ($R_{f,i}$)

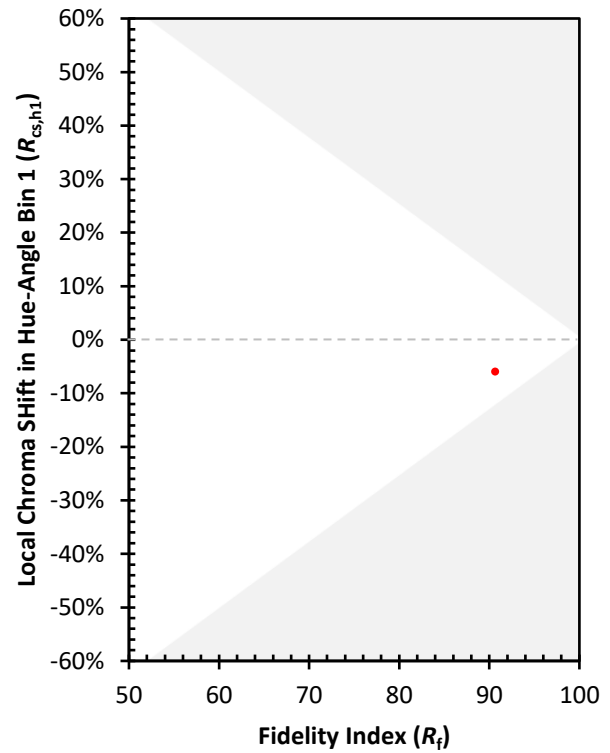
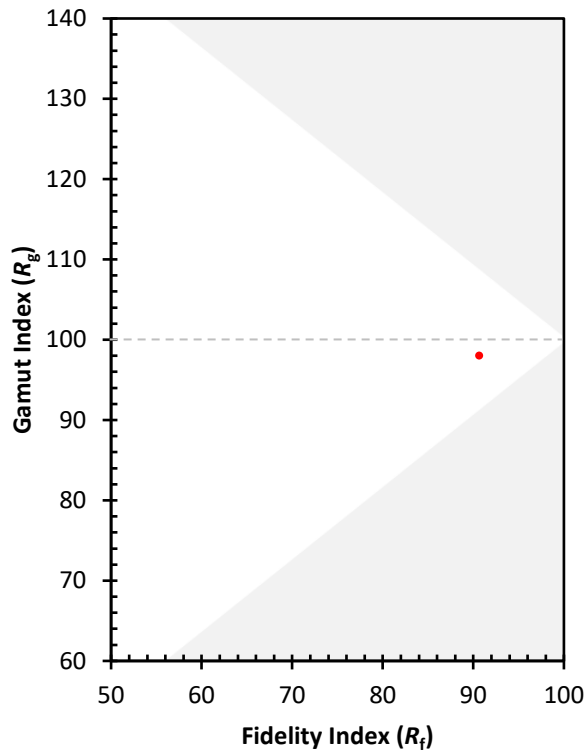
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 97
CES08 = 40	CES33 = 99	CES58 = 91	CES83 = 98
CES09 = 29	CES34 = 93	CES59 = 95	CES84 = 93
CES10 = 73	CES35 = 96	CES60 = 92	CES85 = 85
CES11 = 56	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 62	CES37 = 95	CES62 = 87	CES87 = 90
CES13 = 42	CES38 = 89	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 99	CES64 = 88	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 86	CES90 = 94
CES16 = 46	CES41 = 97	CES66 = 85	CES91 = 74
CES17 = 48	CES42 = 95	CES67 = 84	CES92 = 78
CES18 = 56	CES43 = 95	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 100	CES69 = 88	CES94 = 80
CES20 = 65	CES45 = 97	CES70 = 84	CES95 = 81
CES21 = 85	CES46 = 96	CES71 = 79	CES96 = 90
CES22 = 77	CES47 = 98	CES72 = 93	CES97 = 95
CES23 = 91	CES48 = 90	CES73 = 78	CES98 = 92
CES24 = 90	CES49 = 95	CES74 = 93	CES99 = 88
CES25 = 70	CES50 = 97	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)