

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: P1050010

Luminaire Tested: **GALN-SA3B-940-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1050010
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9379.8 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

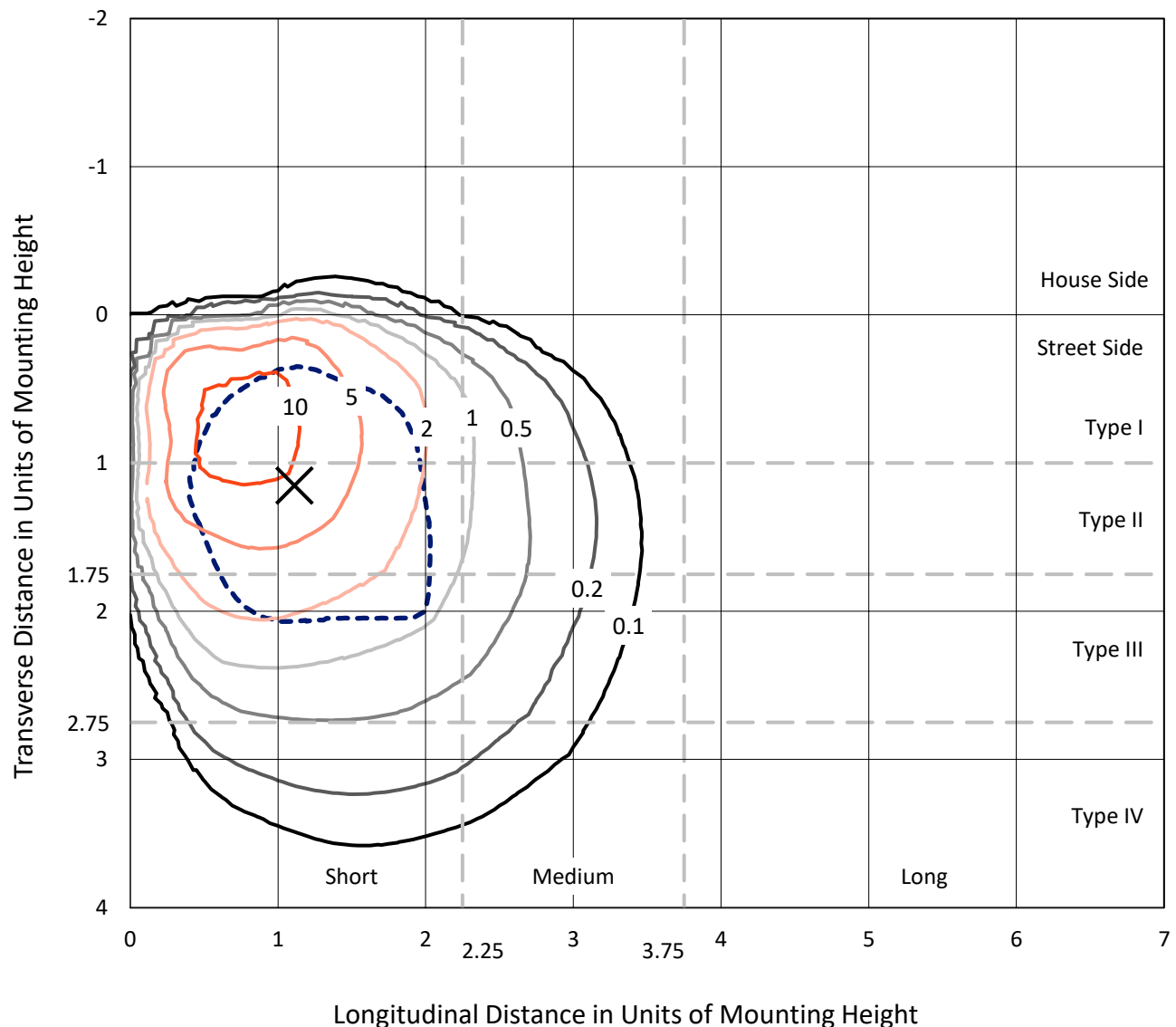
Input Watts (W): 106.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

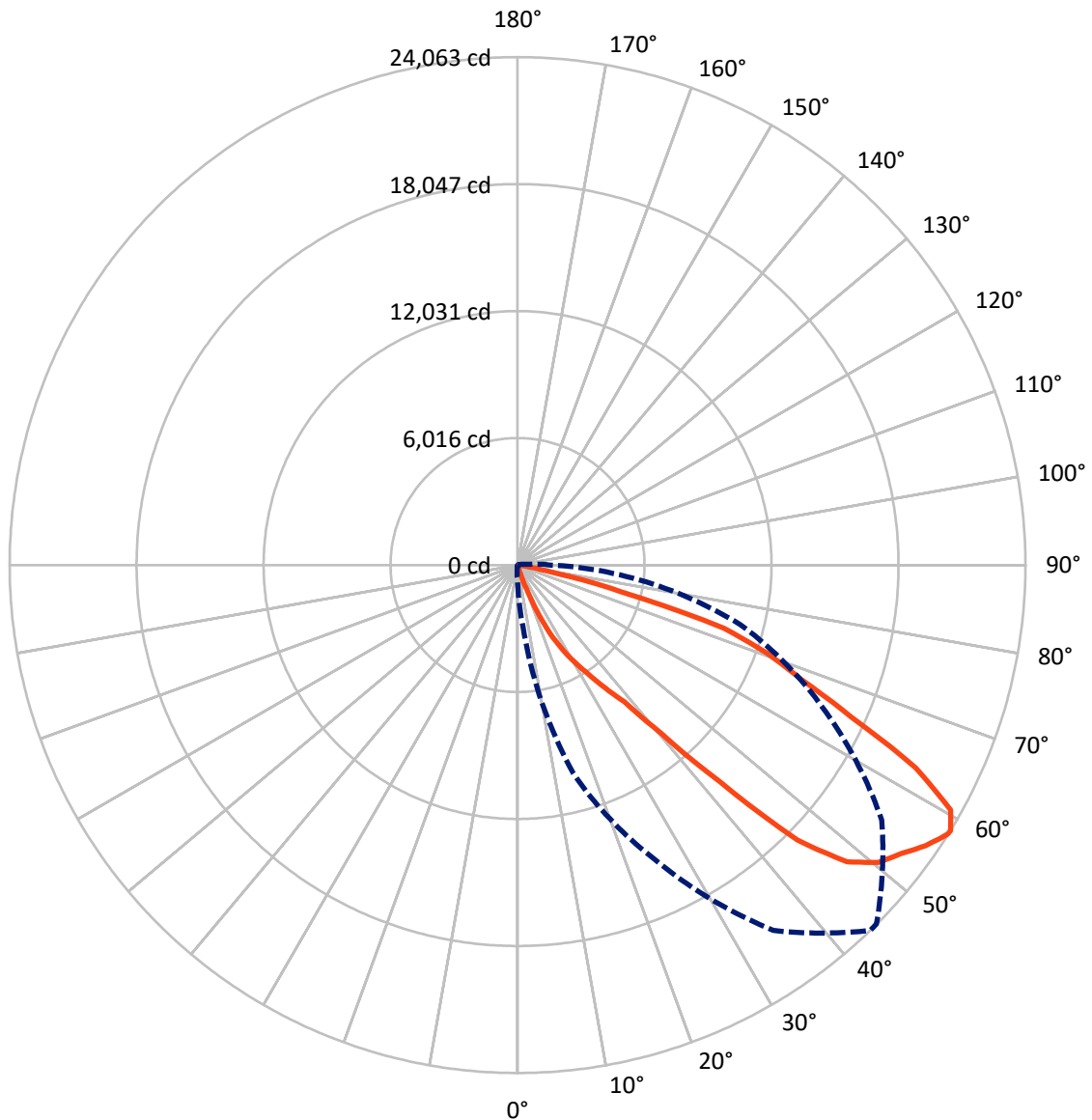
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.3 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	64.0	0.0	64.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	9315.8	0.0	9315.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	9379.8	0.0	9379.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.0
10°-20°	20.6	0.2
20°-30°	222.2	2.4
30°-40°	657.1	7.0
40°-50°	1958.7	20.9
50°-60°	3107.9	33.1
60°-70°	2592.4	27.6
70°-80°	799.5	8.5
80°-90°	17.8	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°	9379.8	100.0
0°-180°	9379.8	100.0



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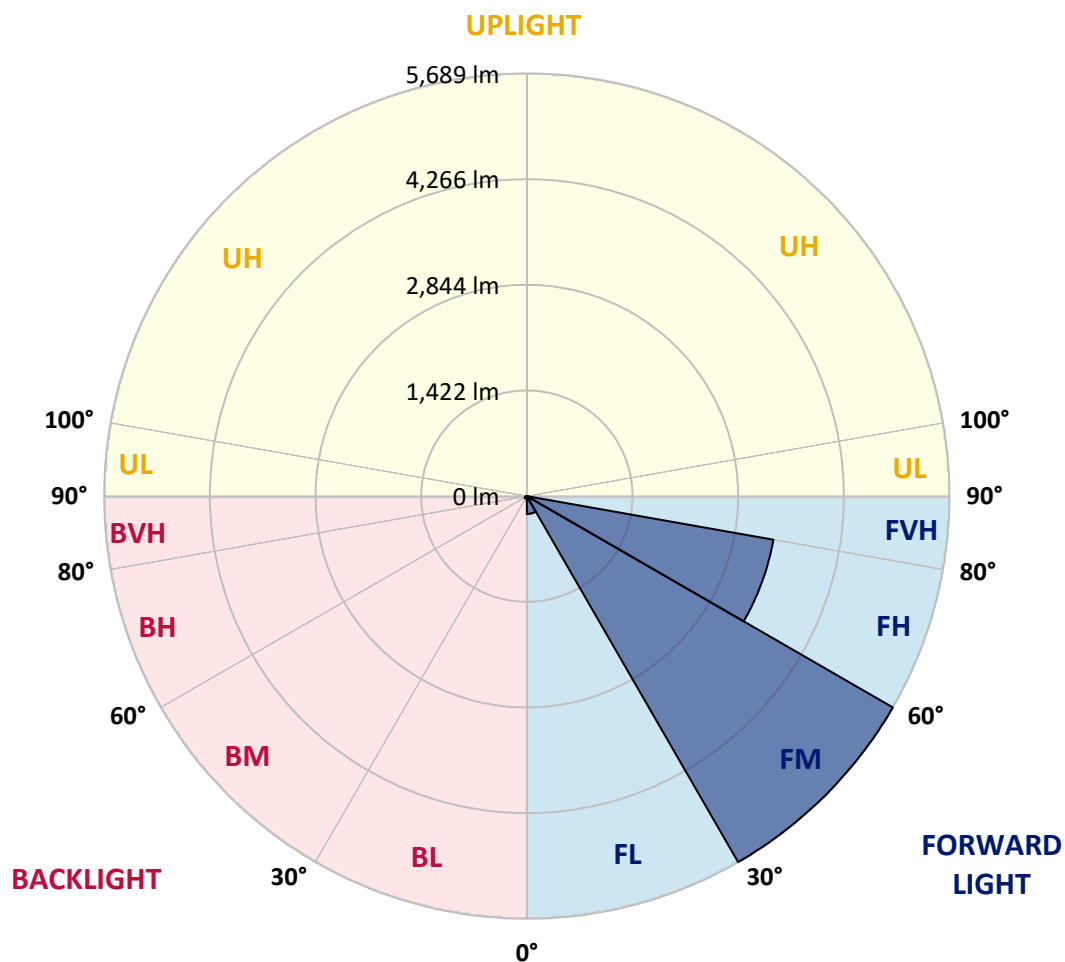
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	240.2	2.6			
FM	(30°-60°)	5688.7	60.6			
FH	(60°-80°)	3370.0	35.9			G2/5000
FVH	(80°-90°)	16.9	0.2			G1/100
BL	(0°-30°)	6.3	0.1	B0/110		
BM	(30°-60°)	35.1	0.4	B0/220		
BH	(60°-80°)	21.9	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
2.5°	53.1	53.1	51.0	48.2	45.3	42.5	41.8	40.4	39.7	39.0
5°	55.3	55.3	54.6	52.4	49.6	47.5	47.5	45.3	43.9	42.5
7.5°	56.7	57.4	58.8	58.1	56.7	54.6	54.6	53.1	51.0	47.5
10°	58.8	60.9	63.8	65.2	65.9	65.9	65.2	64.5	60.9	56.0
12.5°	60.9	65.2	72.3	79.4	83.6	89.3	88.6	87.2	77.9	67.3
15°	65.2	71.6	86.4	107.0	138.9	158.7	166.5	159.4	129.0	90.7
17.5°	70.1	80.8	125.4	223.9	367.0	435.1	476.2	442.9	293.3	172.2
20°	75.1	98.5	233.1	580.3	952.3	1174.8	1236.4	1140.1	731.9	328.1
22.5°	83.6	138.2	472.6	1199.6	2052.0	2385.7	2448.8	2140.6	1382.4	647.6
25°	101.3	200.5	814.8	1954.9	3062.4	3625.7	3599.5	3195.6	2242.6	1034.5
27.5°	126.8	291.9	1232.2	2777.6	4030.3	4527.0	4586.5	4087.0	2989.4	1521.3
30°	163.7	404.6	1680.0	3436.5	4806.2	5343.3	5353.2	4836.7	3657.6	1948.6
32.5°	199.1	510.9	2071.8	4073.5	5570.7	6159.5	6203.5	5567.9	4156.4	2393.5
35°	226.0	580.3	2468.6	4633.3	6341.6	7153.0	7150.1	6395.5	4747.4	2791.0
37.5°	228.2	649.8	2827.9	5205.8	7318.1	8226.4	8316.4	7484.6	5461.6	3282.8
40°	223.2	727.7	3282.8	6098.6	9077.4	10471.2	10550.5	9501.8	6894.3	4124.6
42.5°	228.9	863.0	4021.1	7747.4	11998.8	14000.5	14153.6	13051.0	9528.1	5842.1
45°	258.6	1117.4	5567.9	10505.9	16163.1	18603.4	18552.3	16964.4	12592.6	8456.7
47.5°	357.1	1740.2	7860.8	13190.6	18824.4	20997.6	21041.5	19100.8	14381.0	10466.9
50°	549.1	2662.8	9787.4	14609.9	19968.8	22149.0	22107.9	19865.3	15060.5	11456.8
52.5°	714.2	3330.3	10753.9	15108.0	20115.4	22718.0	22715.2	20066.5	15166.1	11541.8
55°	755.3	3380.6	10761.7	15134.9	20444.2	23462.7	23556.2	20561.8	15302.9	11170.5
57.5°	739.0	2993.0	10312.4	15290.8	21029.5	24038.8	24043.7	21041.5	15650.1	10943.1
58°	724.9	2932.0	10221.7	15379.4	21130.1	24062.8	24050.8	21063.5	15932.8	10934.6
60°	645.5	2545.9	9868.2	15605.4	20980.6	23568.3	23455.6	20583.8	15891.0	10847.4
62.5°	507.3	1986.1	9520.3	15344.0	19377.8	21174.0	21220.8	18223.6	14486.6	10339.4
65°	403.9	1480.2	8794.7	13459.2	15956.9	17388.2	17562.5	14818.9	12091.6	8755.0
67.5°	321.7	1069.9	7377.6	10715.6	12626.6	14512.1	14638.9	12441.7	9367.9	6708.0
70°	261.5	723.4	5092.5	7836.7	10414.5	12534.5	12542.3	10335.8	6992.1	4395.2
72.5°	231.7	501.0	2956.1	5715.3	8444.7	10214.0	10007.8	8387.3	5373.8	2603.3
75°	200.5	332.3	1449.7	3493.9	5120.1	5154.8	5233.5	3890.7	2686.2	1237.9
77.5°	165.1	236.0	571.1	954.4	1535.5	1965.6	2038.5	1544.7	893.5	304.7
80°	113.4	112.0	153.8	292.6	439.3	550.6	513.7	397.5	233.8	116.9
82.5°	48.9	53.1	69.4	83.6	68.0	65.9	63.1	40.4	31.2	24.1
85°	15.6	14.2	14.9	14.9	12.0	9.2	9.2	4.3	0.0	0.0
87.5°	7.8	6.4	6.4	5.7	3.5	1.4	0.7	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°
41.1	0°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
38.3	2.5°	37.6	37.6	36.1	34.7	34.0	32.6	31.9	31.2	30.5	29.8
41.1	5°	39.7	39.0	36.8	34.7	32.6	30.5	29.1	27.6	26.2	25.5
45.3	7.5°	43.2	41.8	37.6	34.0	31.2	28.3	26.9	24.8	23.4	21.3
50.3	10°	47.5	44.6	39.0	34.7	30.5	26.9	24.8	22.7	20.5	17.7
57.4	12.5°	53.1	48.2	41.1	34.0	29.1	24.8	22.7	19.8	17.7	15.6
66.6	15°	58.1	51.7	41.8	34.0	27.6	22.7	19.8	17.0	14.9	12.0
83.6	17.5°	65.2	54.6	41.1	31.9	25.5	19.8	17.0	14.9	11.3	7.1
124.0	20°	77.2	56.7	39.7	29.8	22.0	16.3	12.8	9.9	5.0	1.4
186.4	22.5°	96.4	62.4	38.3	26.9	19.1	12.8	8.5	3.5	0.0	0.0
283.4	25°	133.2	72.3	38.3	25.5	17.0	9.2	2.8	0.0	0.0	0.0
402.5	27.5°	177.1	85.7	38.3	22.0	13.5	5.0	0.0	0.0	0.0	0.0
548.4	30°	221.8	100.6	38.3	19.1	10.6	0.7	0.0	0.0	0.0	0.0
675.3	32.5°	264.3	113.4	39.0	16.3	7.1	0.0	0.0	0.0	0.0	0.0
851.0	35°	307.5	115.5	38.3	14.2	4.3	0.0	0.0	0.0	0.0	0.0
1066.4	37.5°	362.8	111.2	36.1	12.8	2.1	0.0	0.0	0.0	0.0	0.0
1403.0	40°	446.4	113.4	34.0	12.0	0.7	0.0	0.0	0.0	0.0	0.0
2003.1	42.5°	600.9	122.6	31.2	12.0	0.0	0.0	0.0	0.0	0.0	0.0
3190.7	45°	1038.8	164.4	28.3	12.8	0.0	0.0	0.0	0.0	0.0	0.0
4789.9	47.5°	1718.3	295.5	27.6	12.8	0.0	0.0	0.0	0.0	0.0	0.0
5769.8	50°	2193.0	372.0	29.1	13.5	0.0	0.0	0.0	0.0	0.0	0.0
5892.4	52.5°	2189.5	414.5	30.5	14.2	2.8	0.0	0.0	0.0	0.0	0.0
5431.1	55°	1946.4	422.3	32.6	15.6	9.2	0.0	0.0	0.0	0.0	0.0
4667.3	57.5°	1626.9	385.5	37.6	19.1	17.0	0.0	0.0	0.0	0.0	0.0
4547.6	58°	1570.2	368.5	39.0	19.8	18.4	0.0	0.0	0.0	0.0	0.0
3944.6	60°	1286.8	300.4	49.6	24.8	24.8	0.0	0.0	0.0	0.0	0.0
3233.9	62.5°	888.5	262.2	56.7	31.9	25.5	0.0	0.0	0.0	0.0	0.0
2384.3	65°	628.5	236.7	61.6	34.0	20.5	0.0	0.0	0.0	0.0	0.0
1694.2	67.5°	469.8	218.2	68.0	34.7	10.6	0.0	0.0	0.0	0.0	0.0
1062.8	70°	360.0	204.8	83.6	36.8	2.8	0.0	0.0	0.0	0.0	0.0
633.5	72.5°	293.3	189.2	101.3	38.3	0.0	0.0	0.0	0.0	0.0	0.0
379.8	75°	243.0	170.8	97.8	41.8	0.0	0.0	0.0	0.0	0.0	0.0
202.6	77.5°	161.6	132.5	89.3	41.8	0.0	0.0	0.0	0.0	0.0	0.0
72.3	80°	56.7	52.4	69.4	36.8	0.0	0.0	0.0	0.0	0.0	0.0
14.9	82.5°	8.5	7.1	9.9	12.8	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°
41.1	0°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
29.1	2.5°	29.1	29.1	28.3	29.1	29.1	30.5	34.0	39.0	44.6	46.8
24.8	5°	24.1	23.4	22.7	22.7	22.7	24.8	27.6	33.3	39.7	42.5
20.5	7.5°	19.8	19.1	18.4	17.7	17.7	19.1	22.7	29.1	35.4	38.3
17.0	10°	16.3	14.9	14.2	13.5	13.5	14.9	18.4	24.8	31.9	34.7
14.2	12.5°	13.5	11.3	9.9	9.2	8.5	10.6	14.2	19.8	27.6	31.2
10.6	15°	9.2	7.1	5.0	4.3	3.5	5.7	9.2	15.6	23.4	27.6
5.7	17.5°	5.0	2.1	0.7	0.0	0.0	1.4	4.3	11.3	19.1	22.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	14.2	17.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.5	12.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	6.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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	2.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.7
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°
41.1	0°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
48.9	2.5°	50.3	49.6	48.2	46.8	46.8	46.8	48.9	51.0	53.1	53.1
43.9	5°	46.8	46.8	46.1	44.6	44.6	45.3	48.2	51.7	54.6	55.3
40.4	7.5°	43.2	44.6	43.2	42.5	43.2	43.9	46.8	51.0	55.3	56.7
37.6	10°	41.1	41.8	41.8	41.1	41.1	42.5	45.3	51.0	56.7	58.8
34.0	12.5°	38.3	39.7	39.0	39.0	39.0	40.4	43.9	50.3	58.1	60.9
30.5	15°	35.4	37.6	37.6	36.8	36.8	37.6	42.5	49.6	60.2	65.2
26.2	17.5°	32.6	34.7	35.4	34.0	34.0	35.4	40.4	49.6	61.6	70.1
21.3	20°	26.9	30.5	32.6	30.5	30.5	31.9	36.8	46.8	62.4	75.1
15.6	22.5°	21.3	24.8	27.6	26.9	26.9	27.6	34.0	44.6	63.1	83.6
9.2	25°	15.6	19.1	21.3	22.7	22.7	24.8	31.2	43.2	65.9	101.3
4.3	27.5°	9.2	13.5	16.3	17.7	18.4	21.3	29.1	41.8	70.9	126.8
0.0	30°	4.3	7.8	11.3	14.2	14.2	19.1	26.9	40.4	77.2	163.7
0.0	32.5°	0.0	3.5	5.7	9.9	10.6	15.6	24.8	39.0	86.4	199.1
0.0	35°	0.0	0.0	2.8	7.8	7.8	12.8	22.7	37.6	100.6	226.0
0.0	37.5°	0.0	0.0	0.0	5.7	6.4	11.3	22.0	36.8	103.5	228.2
0.0	40°	0.0	0.0	0.0	4.3	5.0	10.6	22.0	37.6	93.5	223.2
0.0	42.5°	0.0	0.0	0.0	2.8	3.5	10.6	22.0	39.0	84.3	228.9
0.0	45°	0.0	0.0	0.0	2.1	2.8	11.3	21.3	38.3	79.4	258.6
0.0	47.5°	0.0	0.0	0.0	2.8	4.3	11.3	20.5	37.6	80.1	357.1
0.0	50°	0.0	0.0	0.0	3.5	5.0	11.3	21.3	36.1	87.9	549.1
0.0	52.5°	0.0	0.0	0.0	2.8	4.3	12.8	23.4	35.4	95.7	714.2
0.0	55°	0.0	0.0	0.0	0.7	2.1	16.3	25.5	35.4	107.7	755.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	18.4	29.1	37.6	127.5	739.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	18.4	29.8	37.6	129.0	724.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	18.4	32.6	41.8	138.9	645.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	15.6	39.0	52.4	144.5	507.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	12.8	46.1	57.4	148.8	403.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	12.0	47.5	58.1	150.9	321.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	12.8	46.8	62.4	158.0	261.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	14.2	42.5	68.7	158.0	231.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	14.9	39.7	77.2	143.8	200.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	14.2	39.0	90.0	128.3	165.1
0.0	80°	1.4	2.1	2.1	1.4	1.4	12.0	38.3	91.4	109.1	113.4
0.7	82.5°	4.3	5.7	5.0	3.5	3.5	10.6	34.0	76.5	56.7	48.9
4.3	85°	7.8	9.2	9.2	7.8	7.8	9.9	21.3	27.6	19.1	15.6
7.8	87.5°	10.6	12.0	12.0	10.6	10.6	9.9	9.2	8.5	7.8	7.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

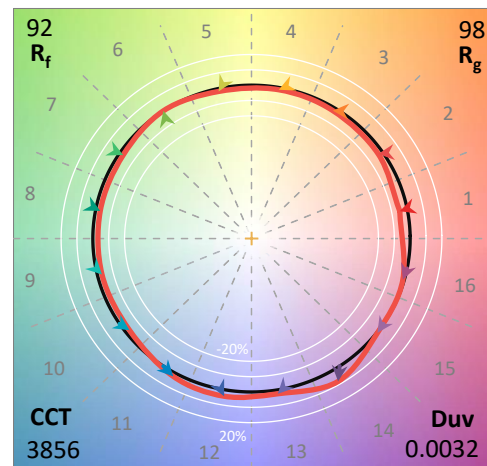
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-16
 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-940-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3856
 CIE u' : 0.2261
 CIE v' : 0.5084
 Duv: 0.0032
 CIE x: 0.3896
 CIE y: 0.3894
 CIE z: 0.2211
 Peak Wavelength (nm): 614
 Dominant Wavelength (nm): 578
 Purity: 33.77304
 R_f: 91.8
 R_g: 98.4

CRI (Ra): 92.1
 R1: 91.8
 R2: 94.1
 R3: 95.3
 R4: 92.8
 R5: 91.0
 R6: 91.6
 R7: 95.0
 R8: 85.2
 R9: 60.7
 R10: 85.2
 R11: 92.4
 R12: 74.5
 R13: 92.3
 R14: 97.0
 R15: 88.5



Test Conditions

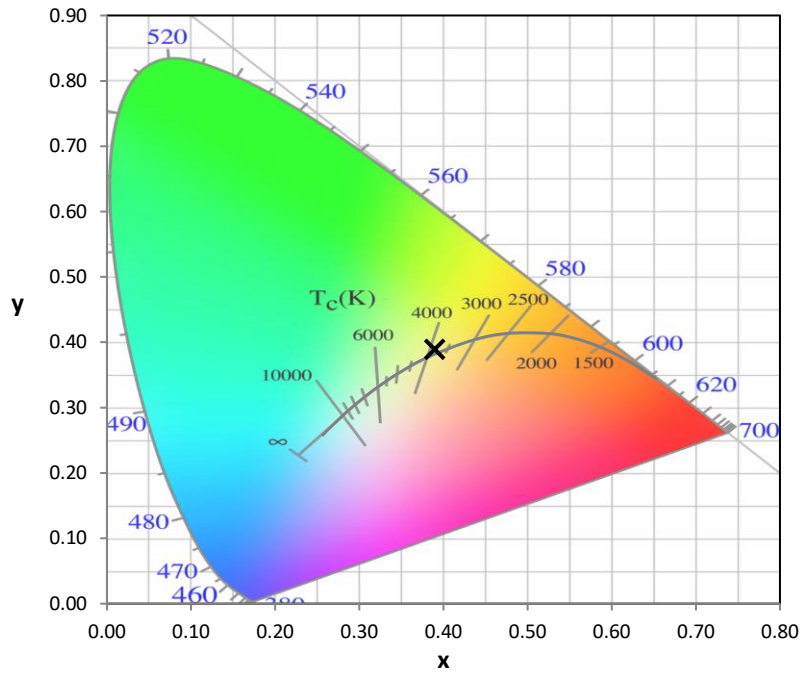
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

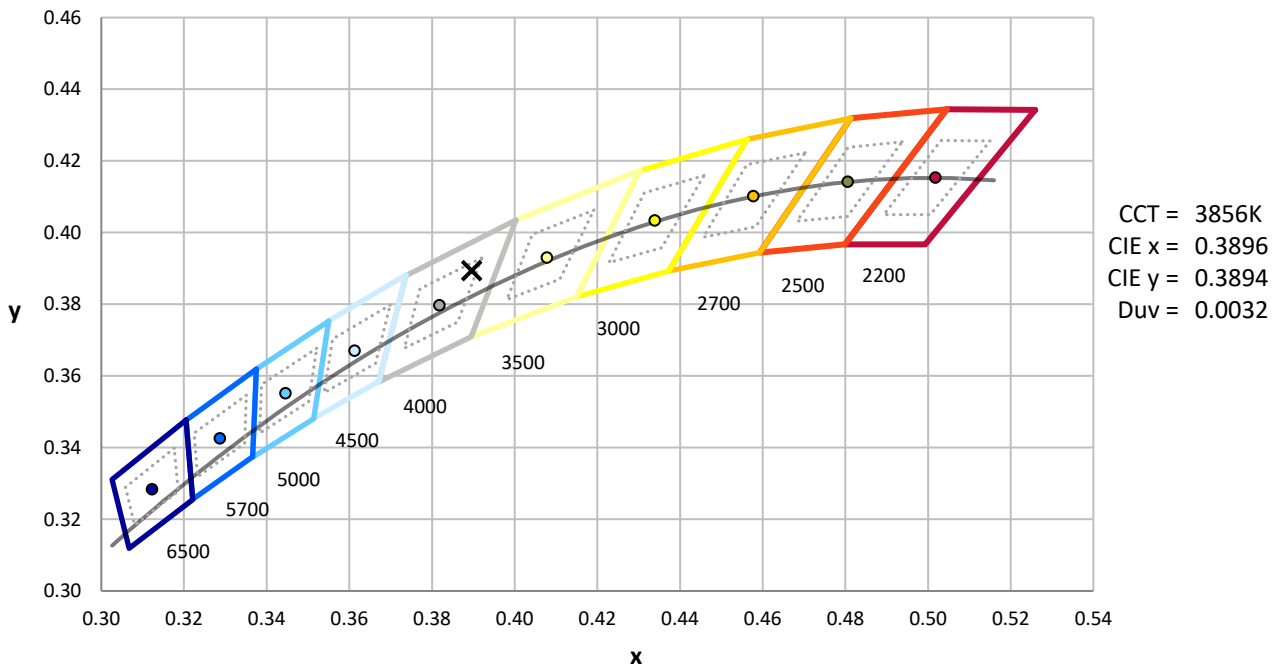
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-16

CIE 1931 Chromaticity Diagram



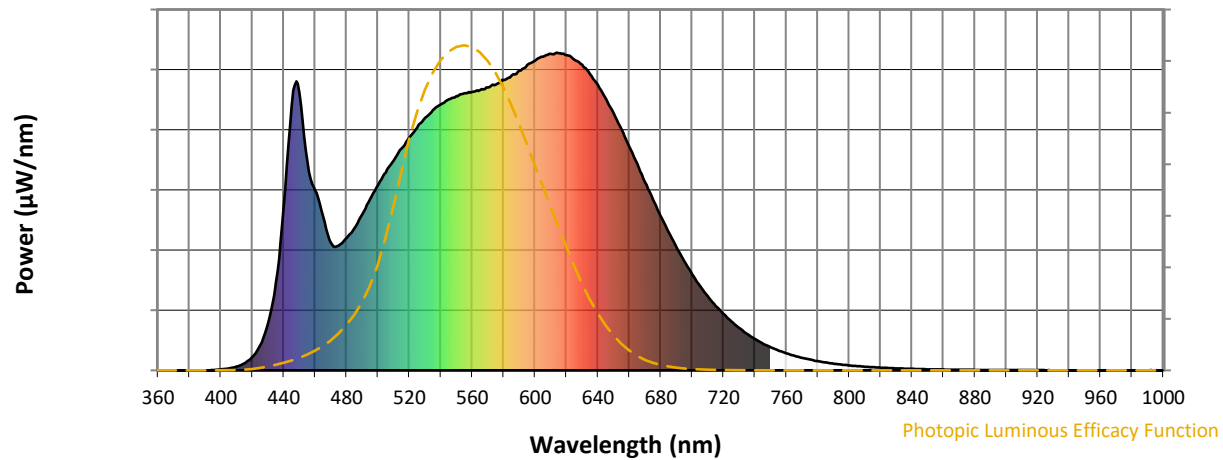
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

Photopic Flux vs. Wavelength

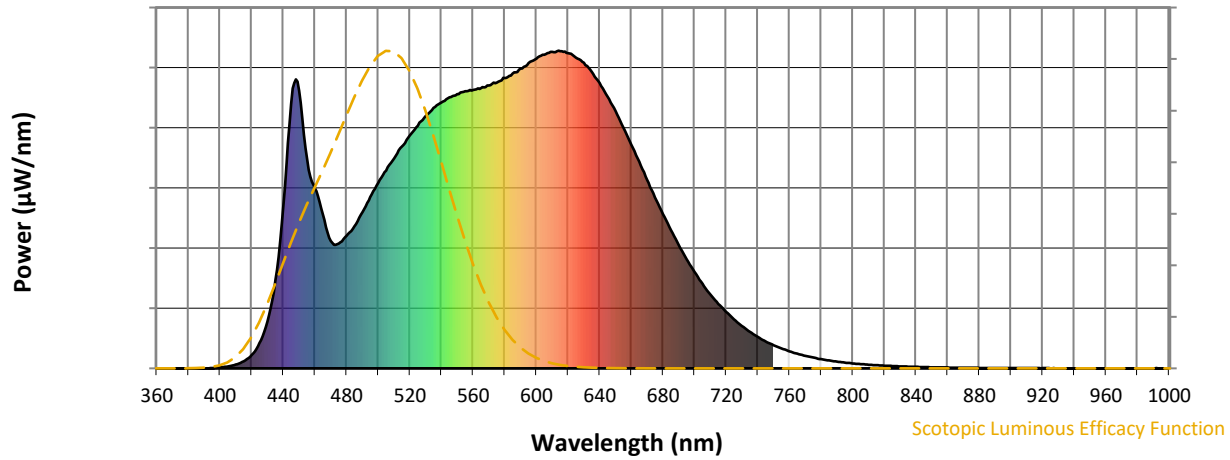


Photopic Lumens: NR

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Scotopic Flux vs. Wavelength



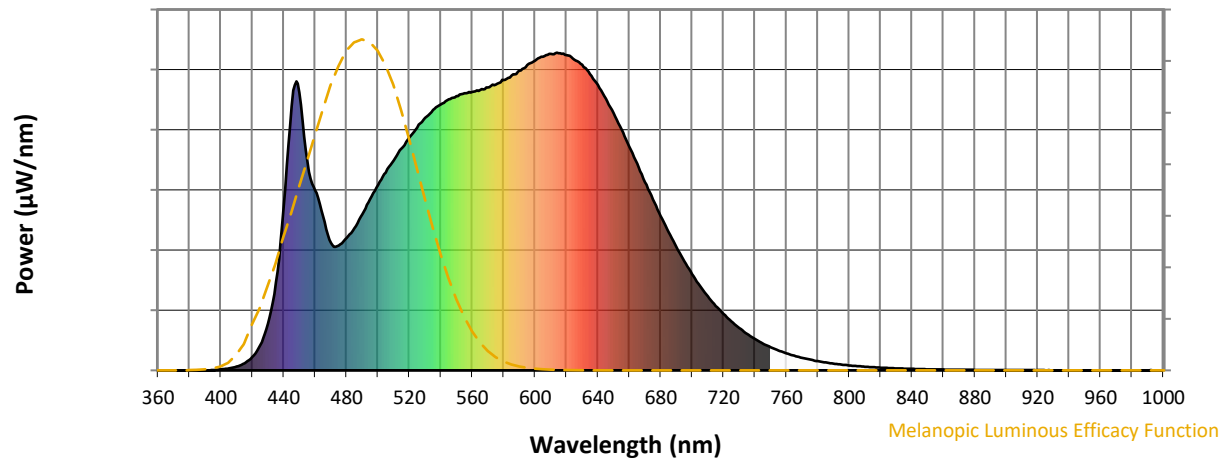
Scotopic Lumens: NR

S/P: 1.72

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.52

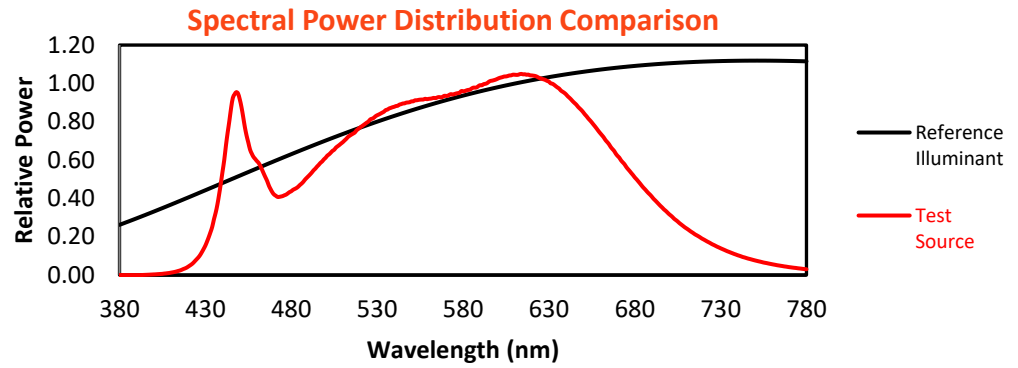
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

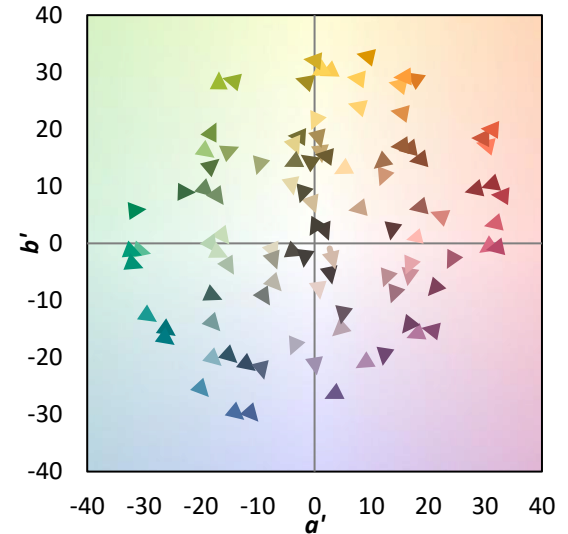
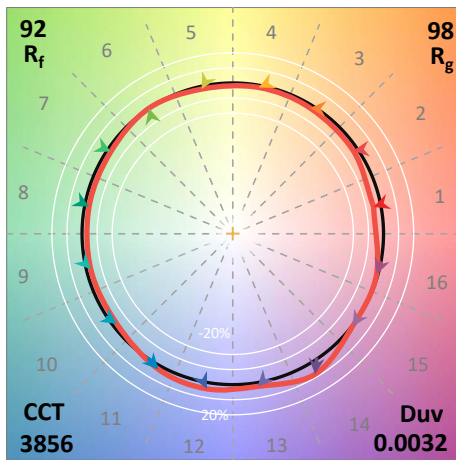
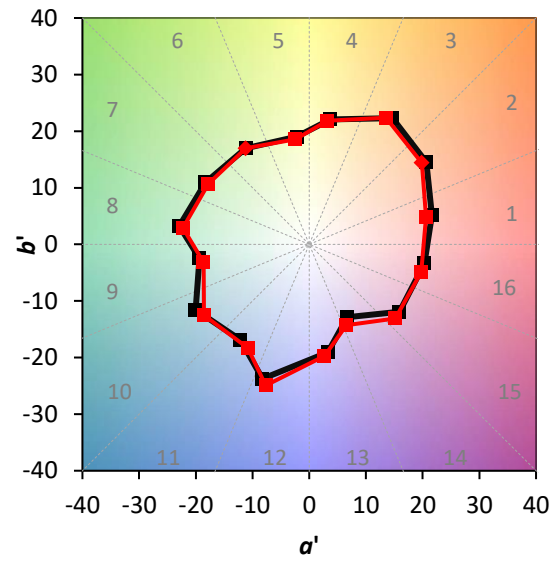
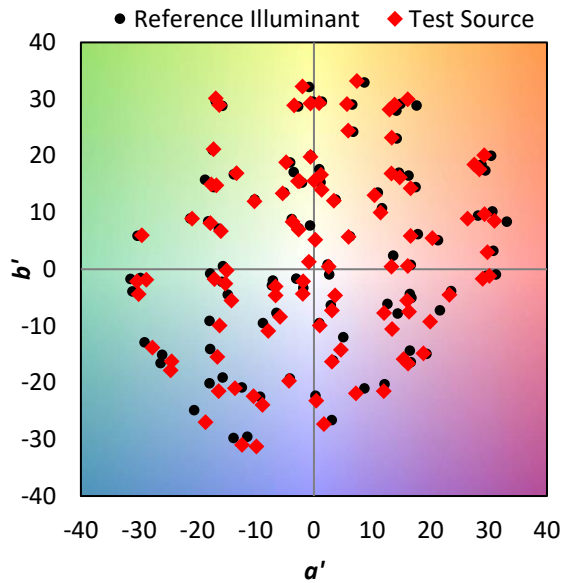
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 98.4$
 $CIE R_a = 92.1$
 $R_9 = 60.7$

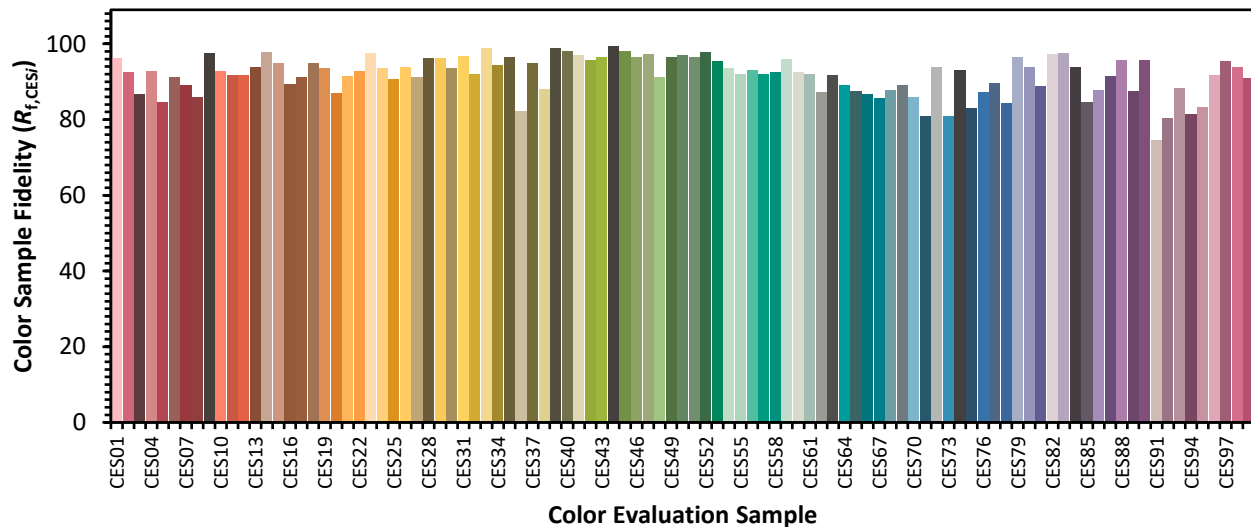


Color Vector Graphics

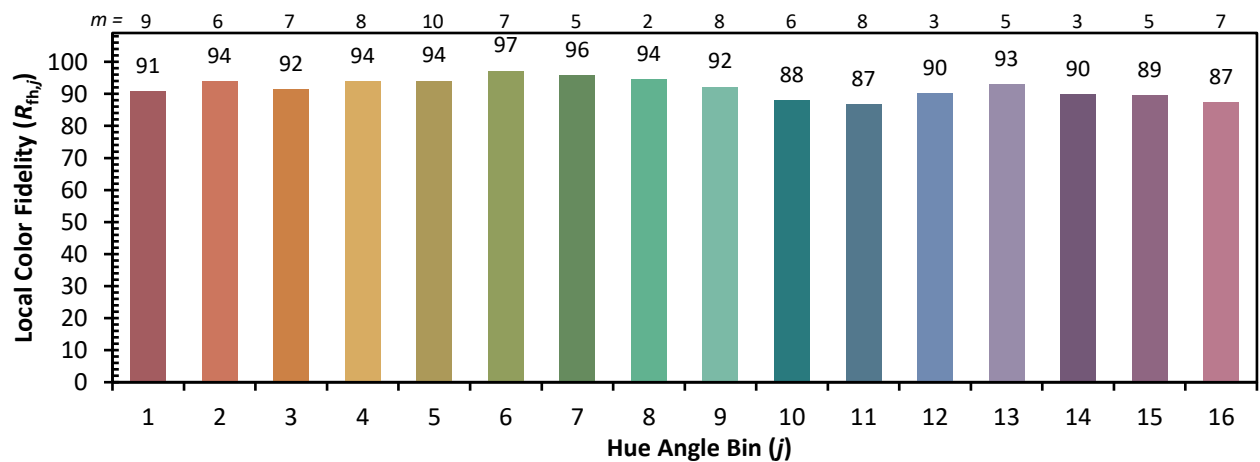
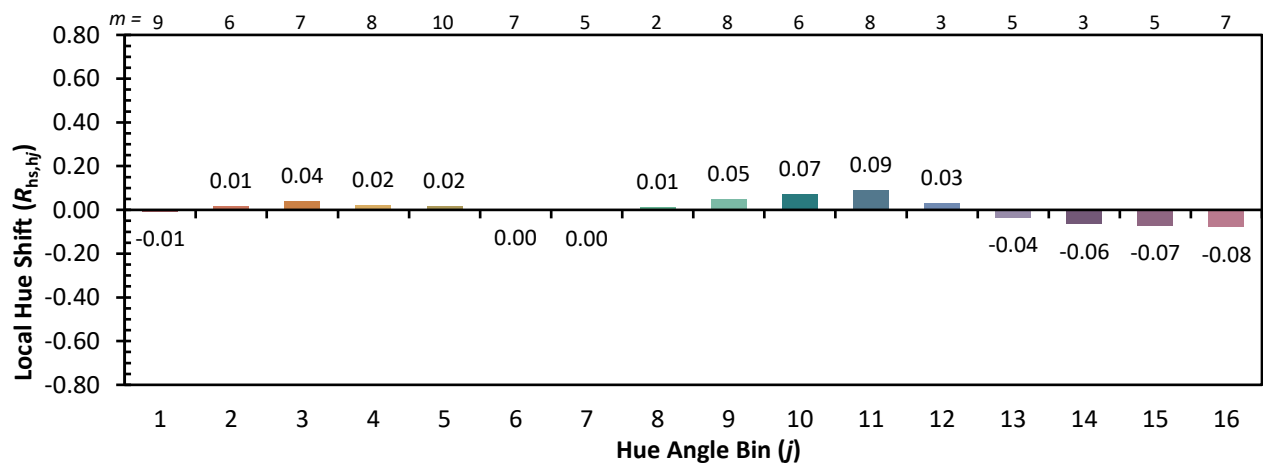
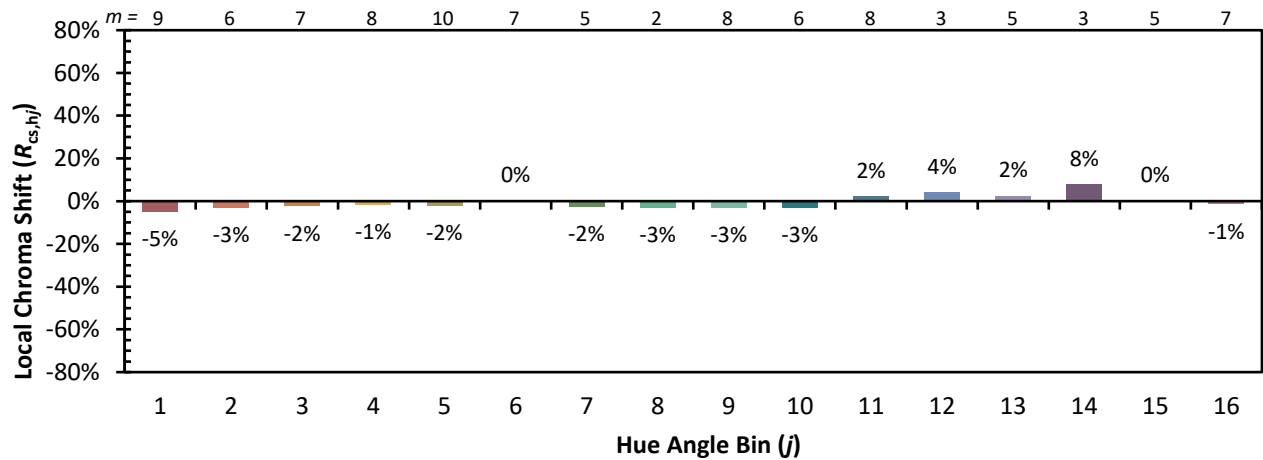


Individual Sample Fidelity Index ($R_{f,i}$)

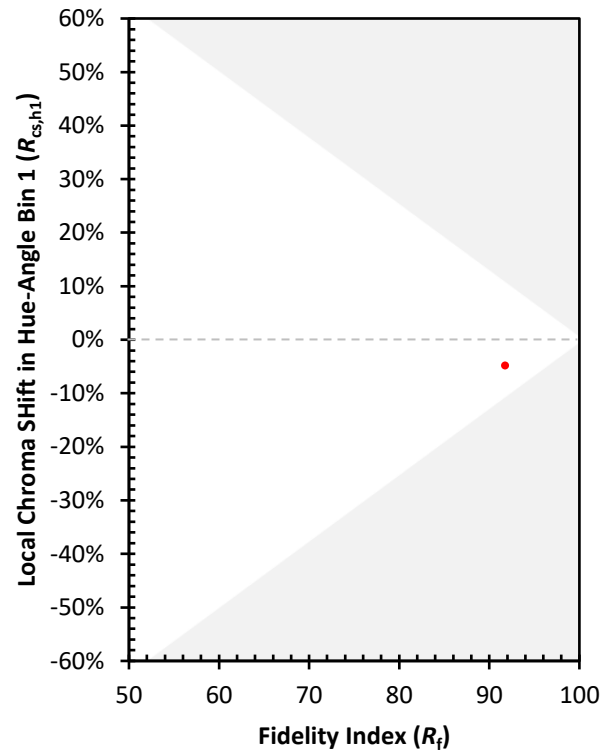
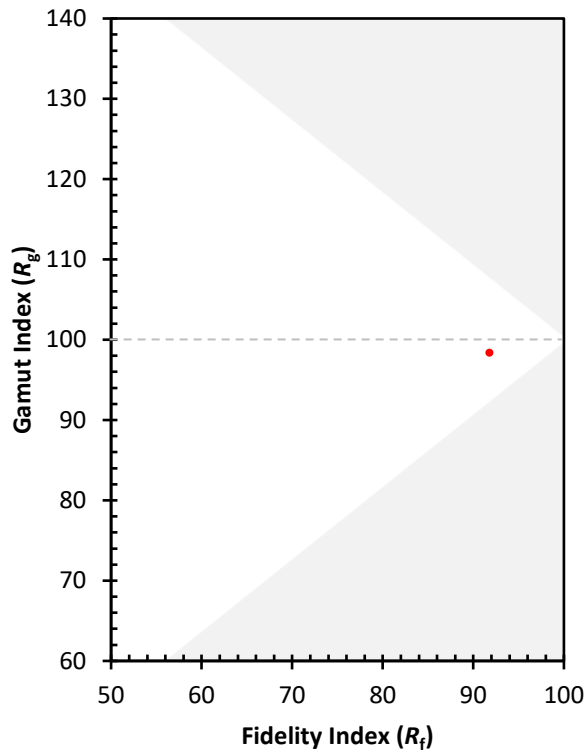
CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82 = 97
CES08 = 41	CES33 = 99	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 74	CES35 = 96	CES60 = 93	CES85 = 85
CES11 = 57	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 63	CES37 = 95	CES62 = 87	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 87	CES91 = 74
CES17 = 49	CES42 = 96	CES67 = 86	CES92 = 80
CES18 = 56	CES43 = 96	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 82
CES20 = 66	CES45 = 98	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 81	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 91	CES73 = 81	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 93	CES99 = 91
CES25 = 71	CES50 = 97	CES75 = 83	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)