

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: P1050007

Luminaire Tested: **GALN-SA2C-940-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050007
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7574.3 lumens
Efficiency: N/A
Efficacy: 78.7 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): 96.2
Input Voltage (V): 120
Input Current (A_{in}): 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

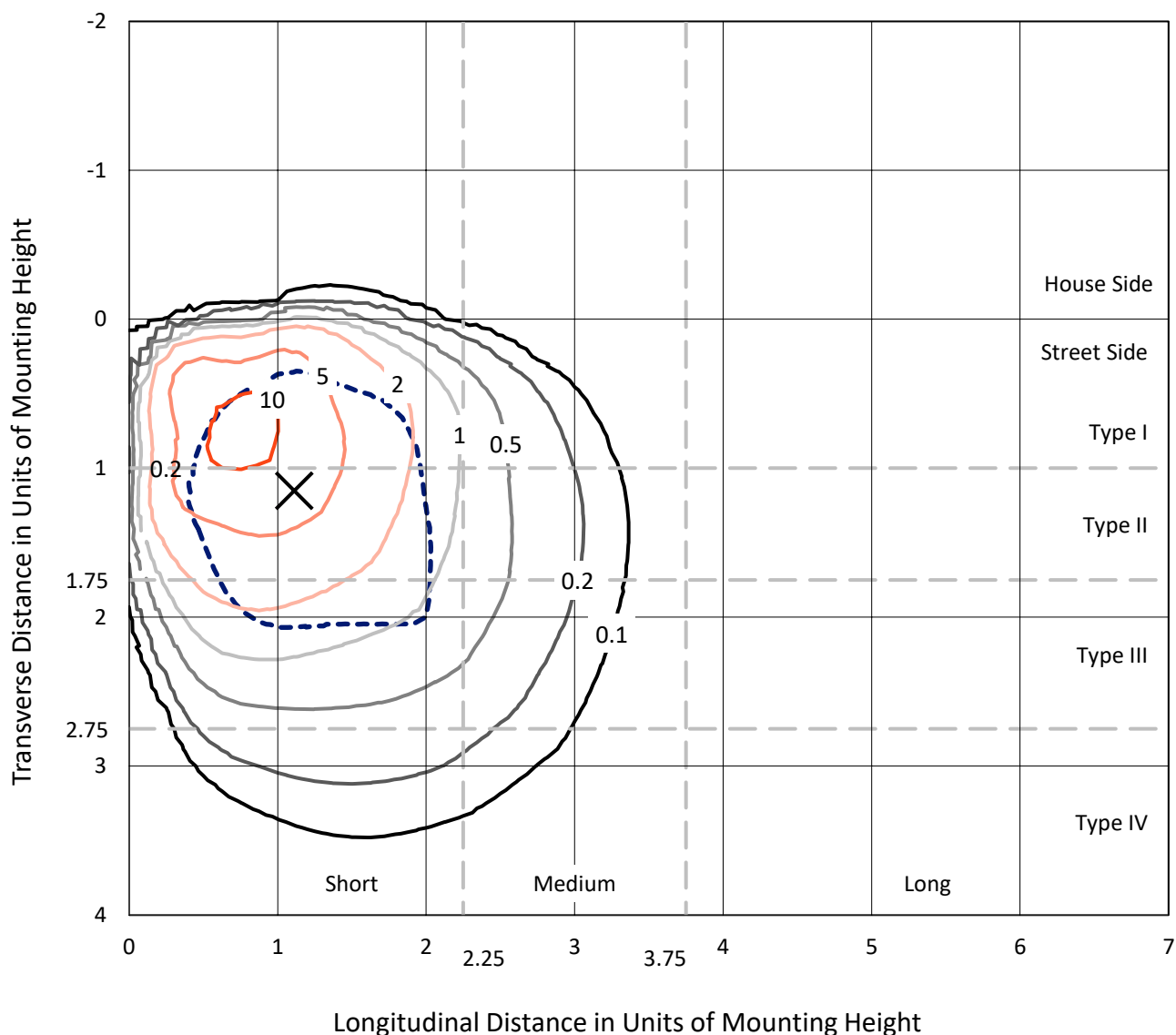
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

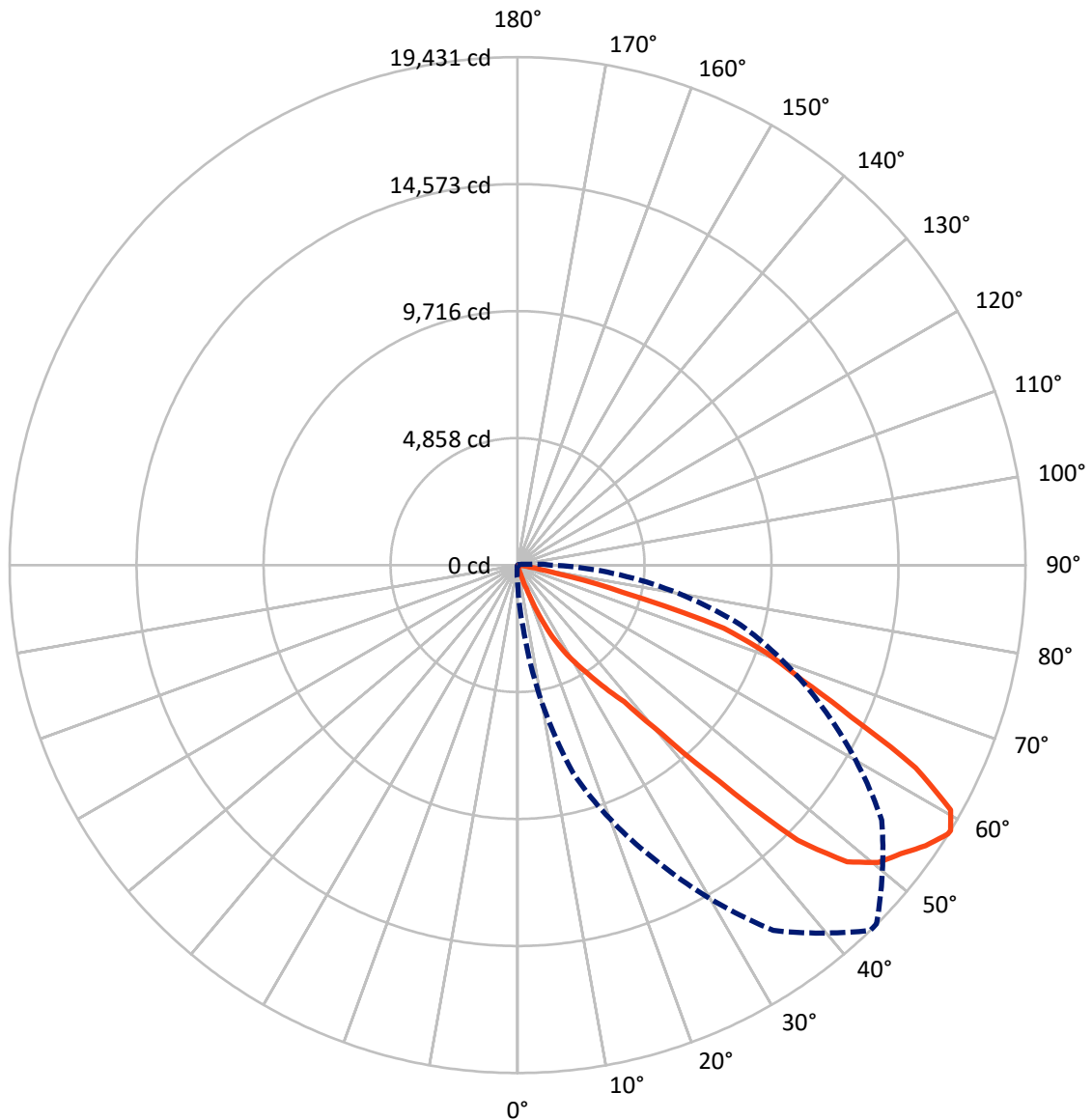


Based on 20 foot mounting height. Maximum calculated value = 13.2 fc

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	51.7	0.0	51.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	7522.6	0.0	7522.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	7574.3	0.0	7574.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.0
10°-20°	16.6	0.2
20°-30°	179.4	2.4
30°-40°	530.7	7.0
40°-50°	1581.6	20.9
50°-60°	2509.7	33.1
60°-70°	2093.4	27.6
70°-80°	645.6	8.5
80°-90°	14.3	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7574.3	100.0
0°-180°	7574.3	100.0



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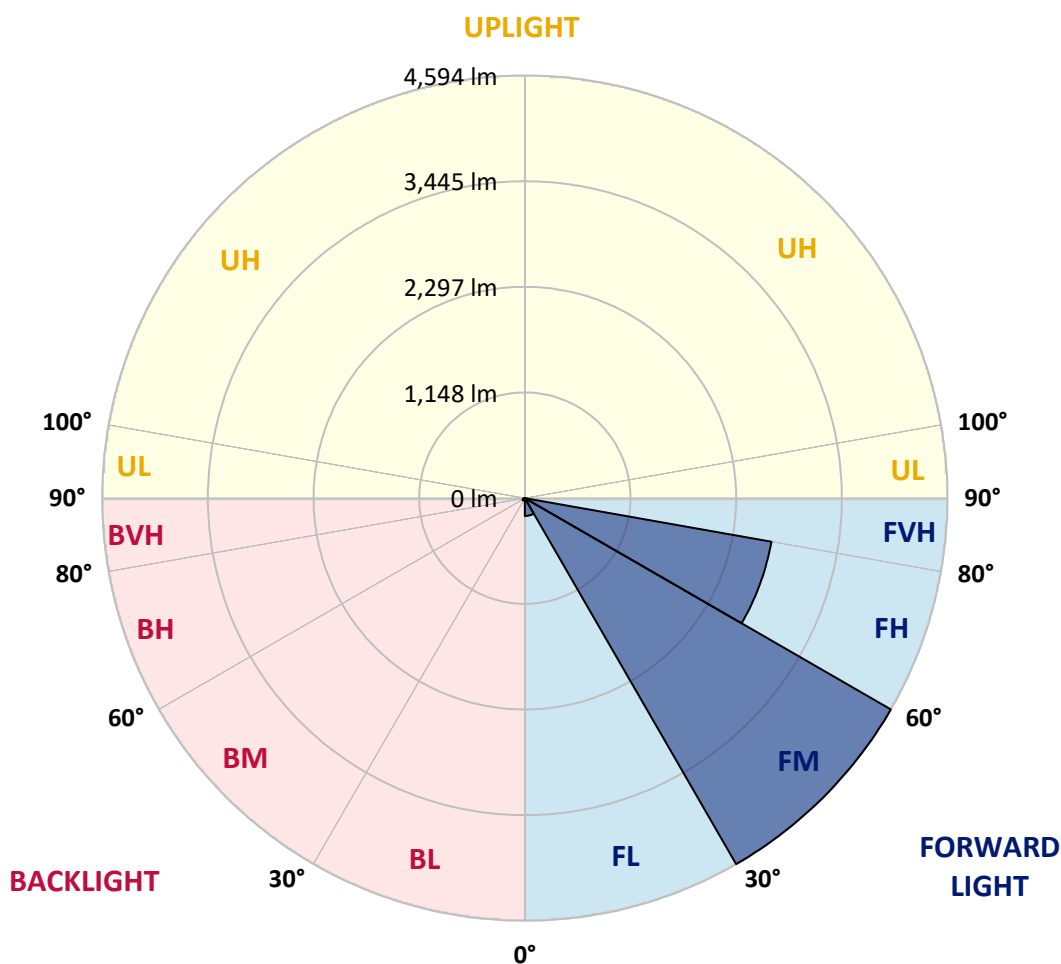
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	193.9	2.6			
FM	(30°-60°)	4593.7	60.6			
FH	(60°-80°)	2721.4	35.9			G2/5000
FVH	(80°-90°)	13.6	0.2			G1/100
BL	(0°-30°)	5.1	0.1	B0/110		
BM	(30°-60°)	28.3	0.4	B0/220		
BH	(60°-80°)	17.7	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°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
2.5°	42.9	42.9	41.2	38.9	36.6	34.3	33.8	32.6	32.0	31.5
5°	44.6	44.6	44.1	42.3	40.1	38.3	38.3	36.6	35.5	34.3
7.5°	45.8	46.3	47.5	46.9	45.8	44.1	44.1	42.9	41.2	38.3
10°	47.5	49.2	51.5	52.6	53.2	53.2	52.6	52.1	49.2	45.2
12.5°	49.2	52.6	58.4	64.1	67.5	72.1	71.5	70.4	62.9	54.4
15°	52.6	57.8	69.8	86.4	112.1	128.2	134.5	128.7	104.1	73.2
17.5°	56.6	65.2	101.3	180.8	296.4	351.3	384.5	357.6	236.9	139.0
20°	60.7	79.5	188.2	468.6	769.0	948.7	998.5	920.6	591.1	264.9
22.5°	67.5	111.6	381.6	968.7	1657.0	1926.5	1977.4	1728.5	1116.3	523.0
25°	81.8	161.9	658.0	1578.6	2473.0	2927.8	2906.7	2580.5	1810.9	835.4
27.5°	102.4	235.7	995.0	2242.9	3254.5	3655.6	3703.7	3300.3	2414.0	1228.5
30°	132.2	326.7	1356.6	2775.1	3881.1	4314.8	4322.8	3905.7	2953.6	1573.5
32.5°	160.8	412.5	1673.0	3289.5	4498.5	4973.9	5009.4	4496.2	3356.4	1932.8
35°	182.5	468.6	1993.5	3741.5	5121.0	5776.1	5773.8	5164.5	3833.6	2253.8
37.5°	184.2	524.7	2283.6	4203.8	5909.5	6643.0	6715.7	6043.9	4410.3	2650.9
40°	180.2	587.6	2650.9	4924.7	7330.2	8455.6	8519.7	7672.9	5567.3	3330.6
42.5°	184.8	696.9	3247.1	6256.2	9689.3	11305.7	11429.3	10538.9	7694.1	4717.6
45°	208.8	902.3	4496.2	8483.7	13052.0	15022.5	14981.3	13699.1	10168.7	6828.9
47.5°	288.4	1405.3	6347.7	10651.7	15201.1	16955.9	16991.4	15424.2	11612.9	8452.2
50°	443.4	2150.2	7903.5	11797.7	16125.1	17885.7	17852.5	16041.6	12161.6	9251.5
52.5°	576.8	2689.2	8683.9	12200.0	16243.6	18345.2	18342.9	16204.1	12246.9	9320.2
55°	609.9	2729.9	8690.2	12221.7	16509.1	18946.5	19022.1	16604.0	12357.3	9020.4
57.5°	596.8	2416.9	8327.5	12347.6	16981.7	19411.7	19415.7	16991.4	12637.7	8836.7
58°	585.3	2367.7	8254.2	12419.1	17062.9	19431.2	19421.4	17009.1	12866.0	8829.9
60°	521.3	2055.8	7968.7	12601.6	16942.2	19031.8	18940.8	16621.8	12832.2	8759.5
62.5°	409.7	1603.8	7687.8	12390.5	15647.9	17098.4	17136.2	14715.8	11698.2	8349.2
65°	326.1	1195.3	7101.9	10868.5	12885.4	14041.2	14182.0	11966.5	9764.2	7069.8
67.5°	259.8	864.0	5957.5	8653.0	10196.2	11718.8	11821.2	10046.9	7564.8	5416.8
70°	211.1	584.2	4112.2	6328.3	8409.9	10121.8	10128.1	8346.4	5646.3	3549.2
72.5°	187.1	404.5	2387.1	4615.2	6819.2	8247.9	8081.4	6772.9	4339.4	2102.2
75°	161.9	268.4	1170.7	2821.4	4134.6	4162.6	4226.1	3141.8	2169.1	999.6
77.5°	133.3	190.5	461.2	770.7	1239.9	1587.2	1646.2	1247.3	721.5	246.0
80°	91.5	90.4	124.2	236.3	354.8	444.6	414.8	321.0	188.8	94.4
82.5°	39.5	42.9	56.1	67.5	54.9	53.2	50.9	32.6	25.2	19.5
85°	12.6	11.4	12.0	12.0	9.7	7.4	7.4	3.4	0.0	0.0
87.5°	6.3	5.1	5.1	4.6	2.9	1.1	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°
33.2	0°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
30.9	2.5°	30.3	30.3	29.2	28.0	27.5	26.3	25.7	25.2	24.6	24.0
33.2	5°	32.0	31.5	29.8	28.0	26.3	24.6	23.5	22.3	21.2	20.6
36.6	7.5°	34.9	33.8	30.3	27.5	25.2	22.9	21.7	20.0	18.9	17.2
40.6	10°	38.3	36.0	31.5	28.0	24.6	21.7	20.0	18.3	16.6	14.3
46.3	12.5°	42.9	38.9	33.2	27.5	23.5	20.0	18.3	16.0	14.3	12.6
53.8	15°	46.9	41.8	33.8	27.5	22.3	18.3	16.0	13.7	12.0	9.7
67.5	17.5°	52.6	44.1	33.2	25.7	20.6	16.0	13.7	12.0	9.2	5.7
100.1	20°	62.4	45.8	32.0	24.0	17.7	13.2	10.3	8.0	4.0	1.1
150.5	22.5°	77.8	50.4	30.9	21.7	15.4	10.3	6.9	2.9	0.0	0.0
228.9	25°	107.6	58.4	30.9	20.6	13.7	7.4	2.3	0.0	0.0	0.0
325.0	27.5°	143.0	69.2	30.9	17.7	10.9	4.0	0.0	0.0	0.0	0.0
442.9	30°	179.1	81.2	30.9	15.4	8.6	0.6	0.0	0.0	0.0	0.0
545.3	32.5°	213.4	91.5	31.5	13.2	5.7	0.0	0.0	0.0	0.0	0.0
687.2	35°	248.3	93.3	30.9	11.4	3.4	0.0	0.0	0.0	0.0	0.0
861.1	37.5°	293.0	89.8	29.2	10.3	1.7	0.0	0.0	0.0	0.0	0.0
1132.9	40°	360.5	91.5	27.5	9.7	0.6	0.0	0.0	0.0	0.0	0.0
1617.5	42.5°	485.2	99.0	25.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0
2576.5	45°	838.8	132.7	22.9	10.3	0.0	0.0	0.0	0.0	0.0	0.0
3867.9	47.5°	1387.5	238.6	22.3	10.3	0.0	0.0	0.0	0.0	0.0	0.0
4659.2	50°	1770.9	300.4	23.5	10.9	0.0	0.0	0.0	0.0	0.0	0.0
4758.2	52.5°	1768.0	334.7	24.6	11.4	2.3	0.0	0.0	0.0	0.0	0.0
4385.7	55°	1571.8	341.0	26.3	12.6	7.4	0.0	0.0	0.0	0.0	0.0
3768.9	57.5°	1313.7	311.3	30.3	15.4	13.7	0.0	0.0	0.0	0.0	0.0
3672.2	58°	1267.9	297.5	31.5	16.0	14.9	0.0	0.0	0.0	0.0	0.0
3185.3	60°	1039.1	242.6	40.1	20.0	20.0	0.0	0.0	0.0	0.0	0.0
2611.4	62.5°	717.5	211.7	45.8	25.7	20.6	0.0	0.0	0.0	0.0	0.0
1925.4	65°	507.5	191.1	49.8	27.5	16.6	0.0	0.0	0.0	0.0	0.0
1368.1	67.5°	379.4	176.2	54.9	28.0	8.6	0.0	0.0	0.0	0.0	0.0
858.3	70°	290.7	165.4	67.5	29.8	2.3	0.0	0.0	0.0	0.0	0.0
511.5	72.5°	236.9	152.8	81.8	30.9	0.0	0.0	0.0	0.0	0.0	0.0
306.7	75°	196.3	137.9	79.0	33.8	0.0	0.0	0.0	0.0	0.0	0.0
163.6	77.5°	130.5	107.0	72.1	33.8	0.0	0.0	0.0	0.0	0.0	0.0
58.4	80°	45.8	42.3	56.1	29.8	0.0	0.0	0.0	0.0	0.0	0.0
12.0	82.5°	6.9	5.7	8.0	10.3	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°
33.2	0°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
23.5	2.5°	23.5	23.5	22.9	23.5	23.5	24.6	27.5	31.5	36.0	37.8
20.0	5°	19.5	18.9	18.3	18.3	18.3	20.0	22.3	26.9	32.0	34.3
16.6	7.5°	16.0	15.4	14.9	14.3	14.3	15.4	18.3	23.5	28.6	30.9
13.7	10°	13.2	12.0	11.4	10.9	10.9	12.0	14.9	20.0	25.7	28.0
11.4	12.5°	10.9	9.2	8.0	7.4	6.9	8.6	11.4	16.0	22.3	25.2
8.6	15°	7.4	5.7	4.0	3.4	2.9	4.6	7.4	12.6	18.9	22.3
4.6	17.5°	4.0	1.7	0.6	0.0	0.0	1.1	3.4	9.2	15.4	18.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	11.4	14.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	6.9	9.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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	1.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.6
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°
33.2	0°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
39.5	2.5°	40.6	40.1	38.9	37.8	37.8	37.8	39.5	41.2	42.9	42.9
35.5	5°	37.8	37.8	37.2	36.0	36.0	36.6	38.9	41.8	44.1	44.6
32.6	7.5°	34.9	36.0	34.9	34.3	34.9	35.5	37.8	41.2	44.6	45.8
30.3	10°	33.2	33.8	33.8	33.2	33.2	34.3	36.6	41.2	45.8	47.5
27.5	12.5°	30.9	32.0	31.5	31.5	31.5	32.6	35.5	40.6	46.9	49.2
24.6	15°	28.6	30.3	30.3	29.8	29.8	30.3	34.3	40.1	48.6	52.6
21.2	17.5°	26.3	28.0	28.6	27.5	27.5	28.6	32.6	40.1	49.8	56.6
17.2	20°	21.7	24.6	26.3	24.6	24.6	25.7	29.8	37.8	50.4	60.7
12.6	22.5°	17.2	20.0	22.3	21.7	21.7	22.3	27.5	36.0	50.9	67.5
7.4	25°	12.6	15.4	17.2	18.3	18.3	20.0	25.2	34.9	53.2	81.8
3.4	27.5°	7.4	10.9	13.2	14.3	14.9	17.2	23.5	33.8	57.2	102.4
0.0	30°	3.4	6.3	9.2	11.4	11.4	15.4	21.7	32.6	62.4	132.2
0.0	32.5°	0.0	2.9	4.6	8.0	8.6	12.6	20.0	31.5	69.8	160.8
0.0	35°	0.0	0.0	2.3	6.3	6.3	10.3	18.3	30.3	81.2	182.5
0.0	37.5°	0.0	0.0	0.0	4.6	5.1	9.2	17.7	29.8	83.5	184.2
0.0	40°	0.0	0.0	0.0	3.4	4.0	8.6	17.7	30.3	75.5	180.2
0.0	42.5°	0.0	0.0	0.0	2.3	2.9	8.6	17.7	31.5	68.1	184.8
0.0	45°	0.0	0.0	0.0	1.7	2.3	9.2	17.2	30.9	64.1	208.8
0.0	47.5°	0.0	0.0	0.0	2.3	3.4	9.2	16.6	30.3	64.7	288.4
0.0	50°	0.0	0.0	0.0	2.9	4.0	9.2	17.2	29.2	71.0	443.4
0.0	52.5°	0.0	0.0	0.0	2.3	3.4	10.3	18.9	28.6	77.2	576.8
0.0	55°	0.0	0.0	0.0	0.6	1.7	13.2	20.6	28.6	87.0	609.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	14.9	23.5	30.3	103.0	596.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	14.9	24.0	30.3	104.1	585.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	14.9	26.3	33.8	112.1	521.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	12.6	31.5	42.3	116.7	409.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	10.3	37.2	46.3	120.2	326.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	9.7	38.3	46.9	121.9	259.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	10.3	37.8	50.4	127.6	211.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	11.4	34.3	55.5	127.6	187.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	12.0	32.0	62.4	116.2	161.9
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	11.4	31.5	72.7	103.6	133.3
0.0	80°	1.1	1.7	1.7	1.1	1.1	9.7	30.9	73.8	88.1	91.5
0.6	82.5°	3.4	4.6	4.0	2.9	2.9	8.6	27.5	61.8	45.8	39.5
3.4	85°	6.3	7.4	7.4	6.3	6.3	8.0	17.2	22.3	15.4	12.6
6.3	87.5°	8.6	9.7	9.7	8.6	8.6	8.0	7.4	6.9	6.3	6.3
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

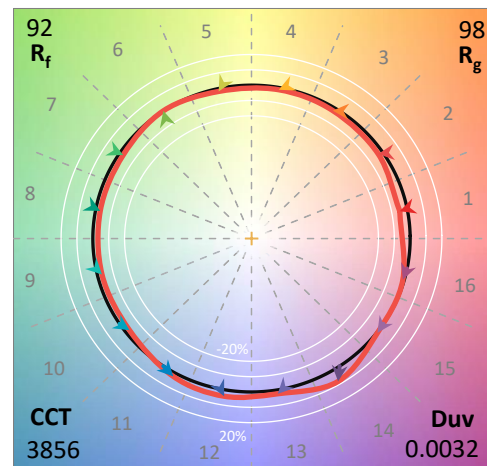
Test Information

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

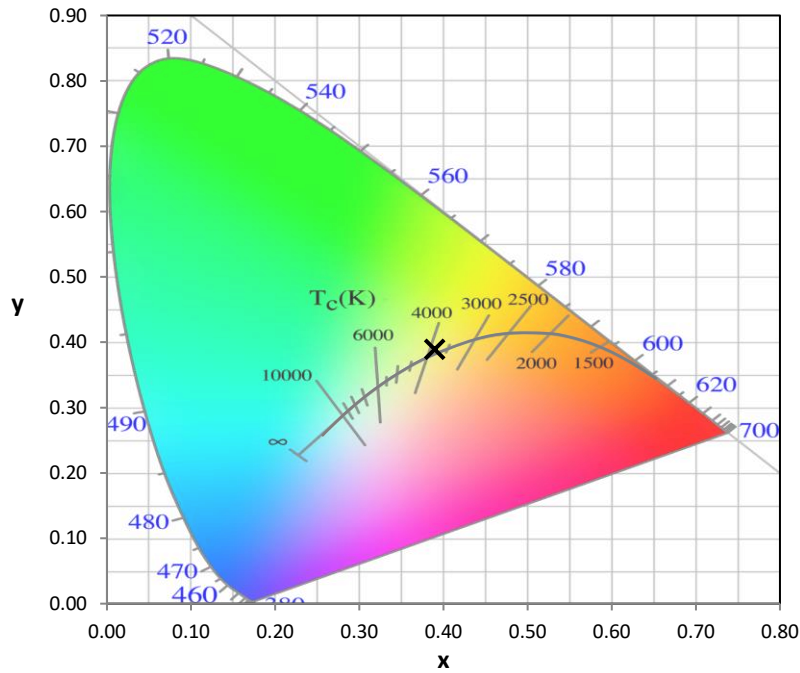
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

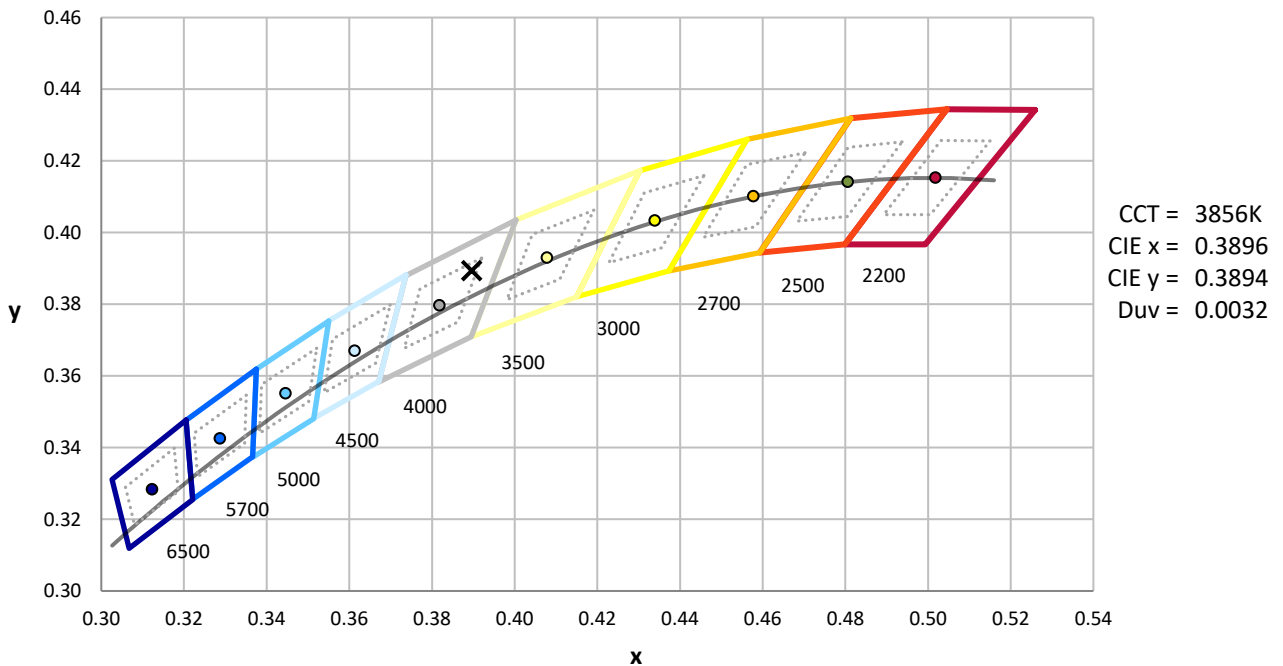
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



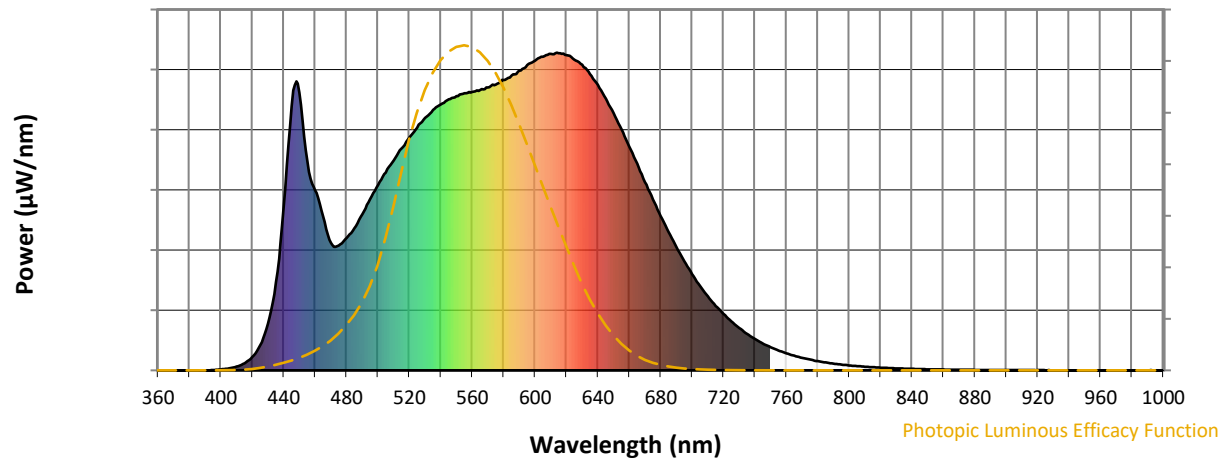
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

Photopic Flux vs. Wavelength

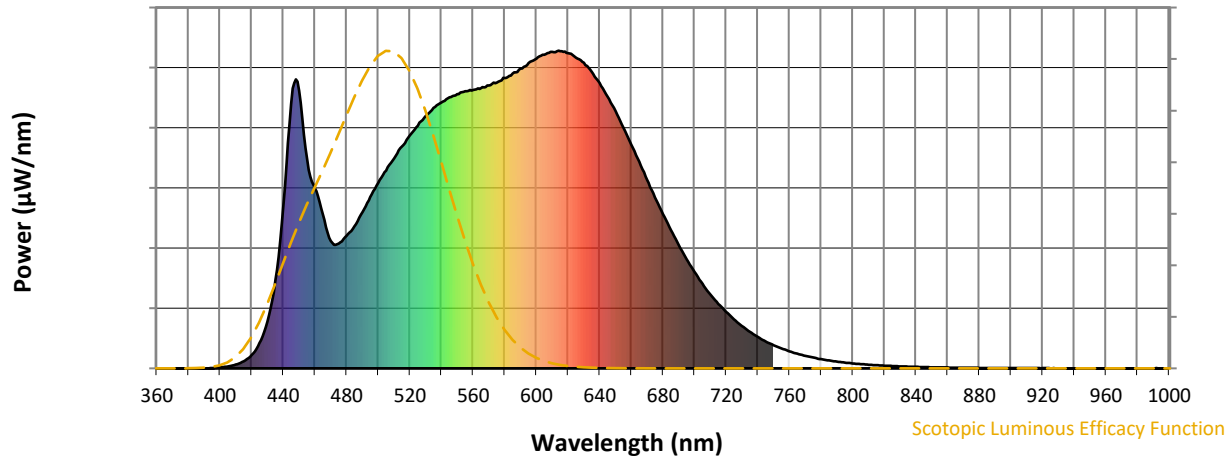


Photopic Lumens: NR

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



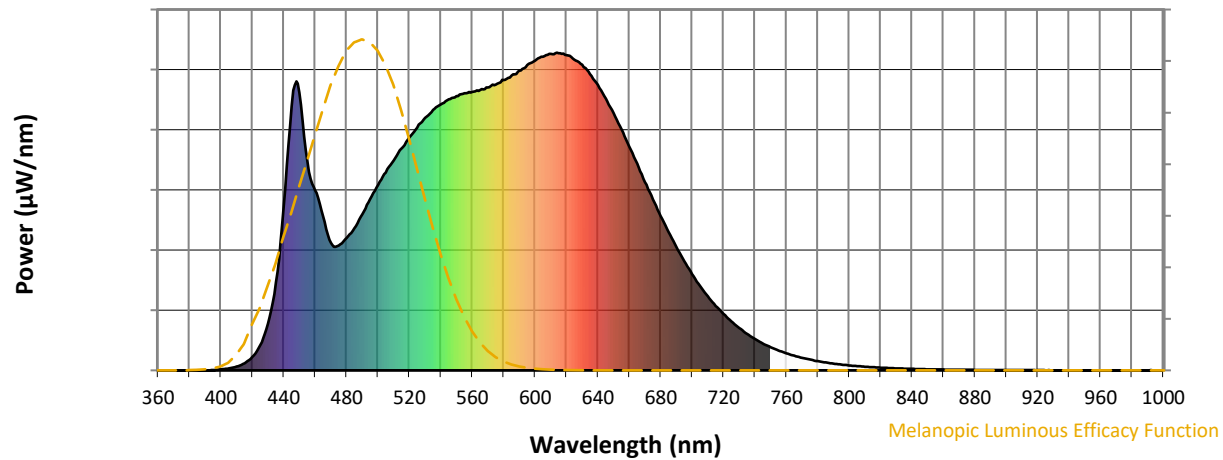
Scotopic Lumens: NR

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

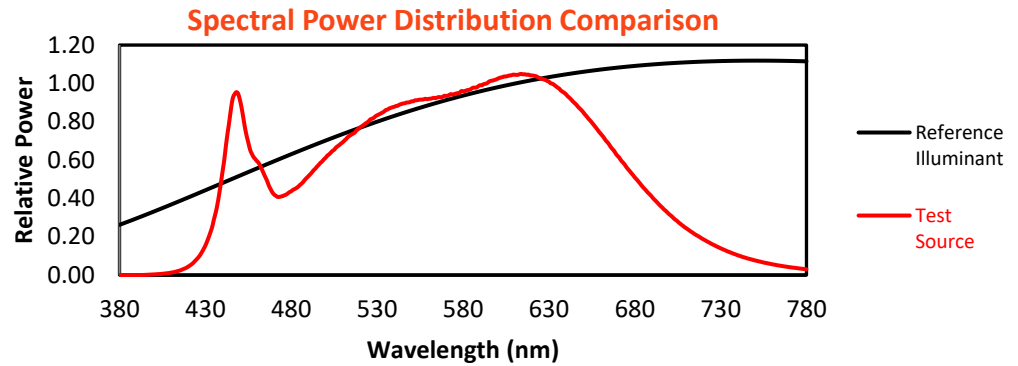
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	492	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

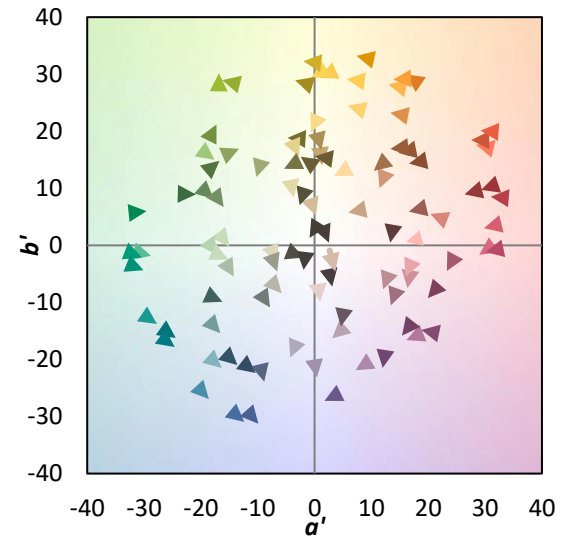
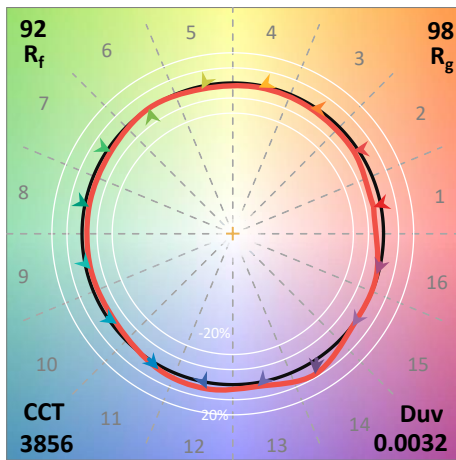
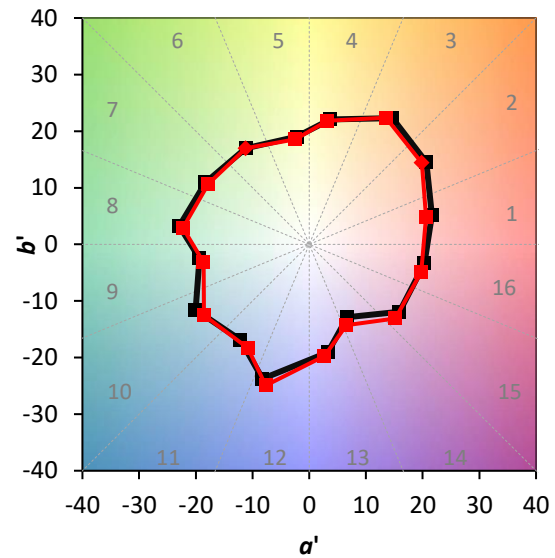
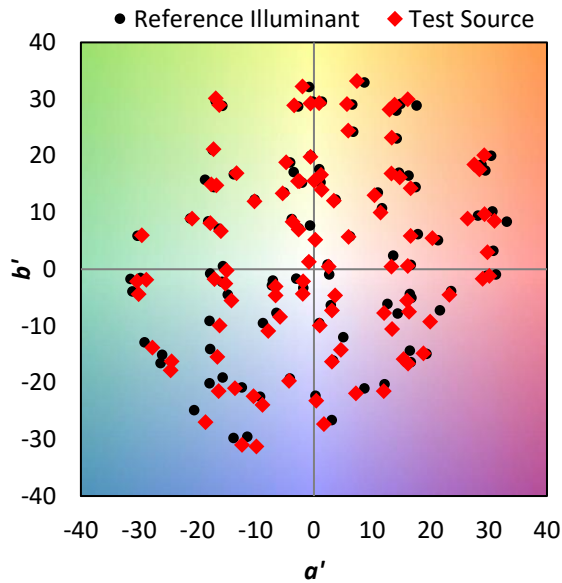
TM-30-18

Summary

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

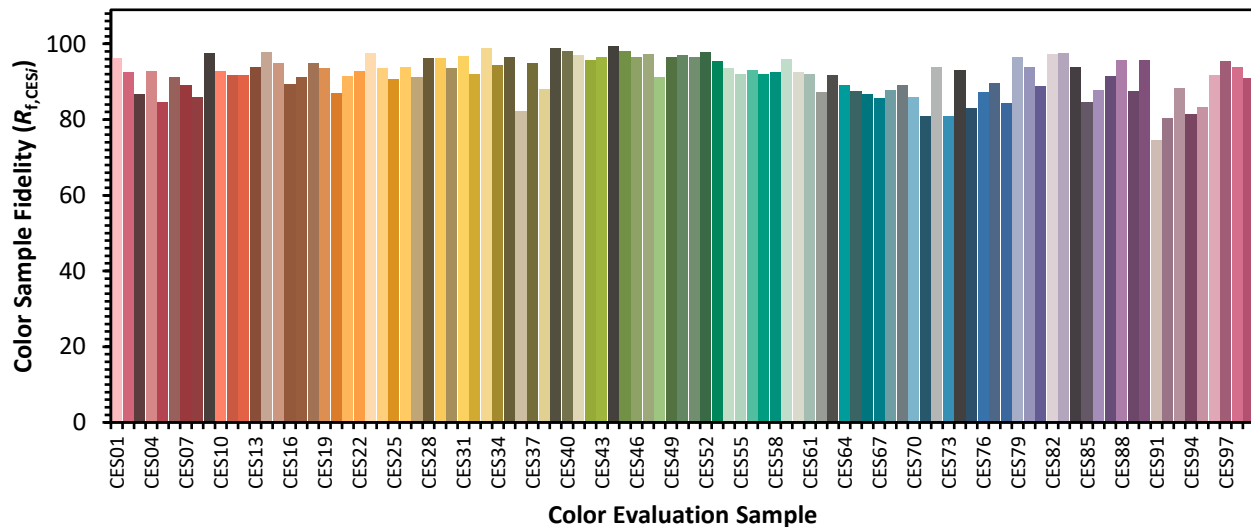


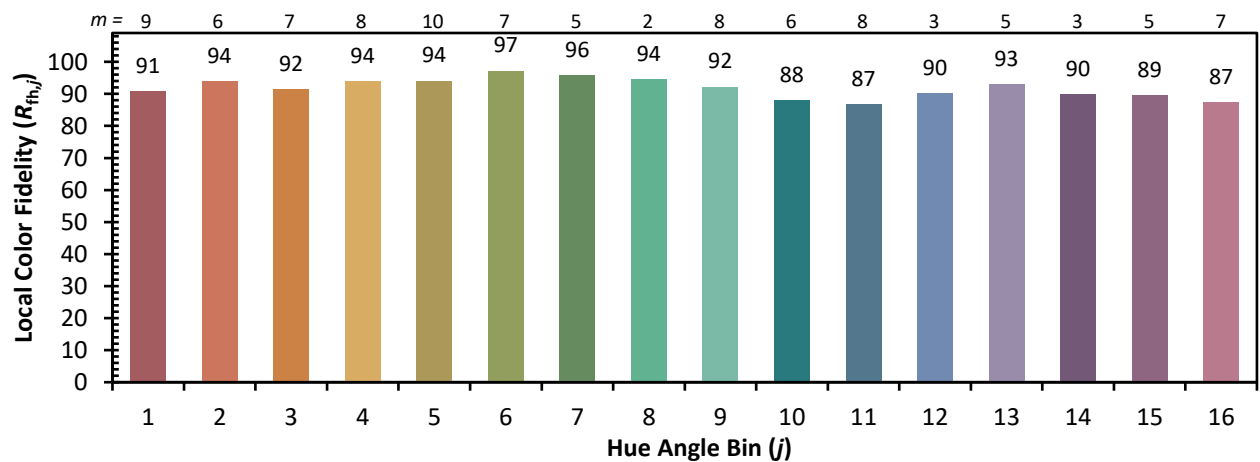
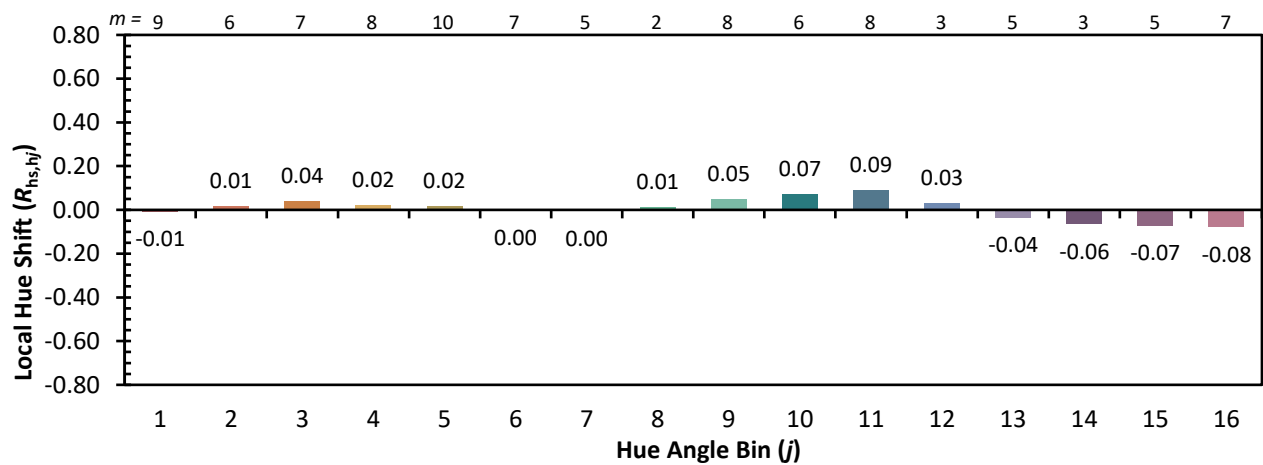
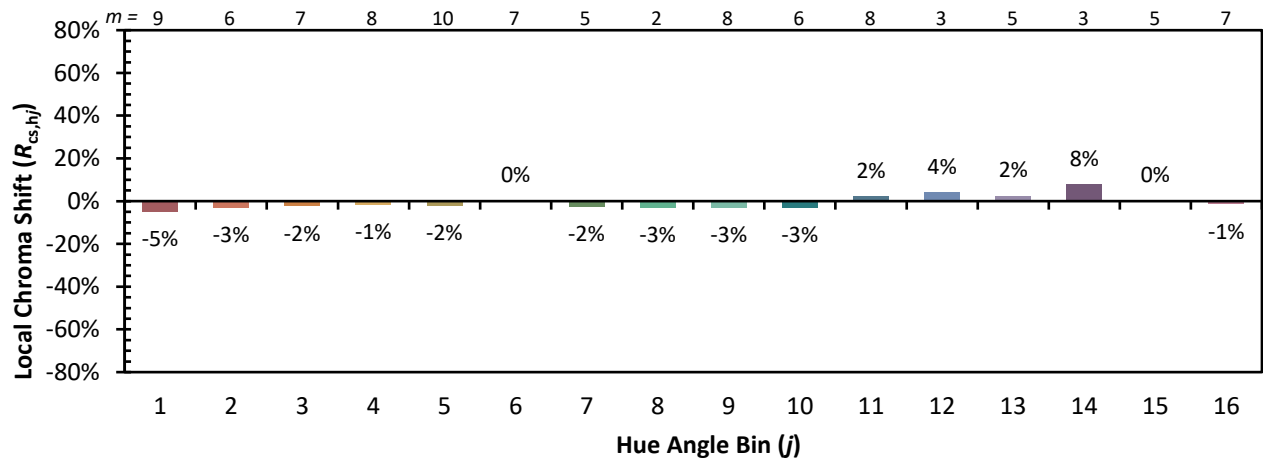
Color Vector Graphics



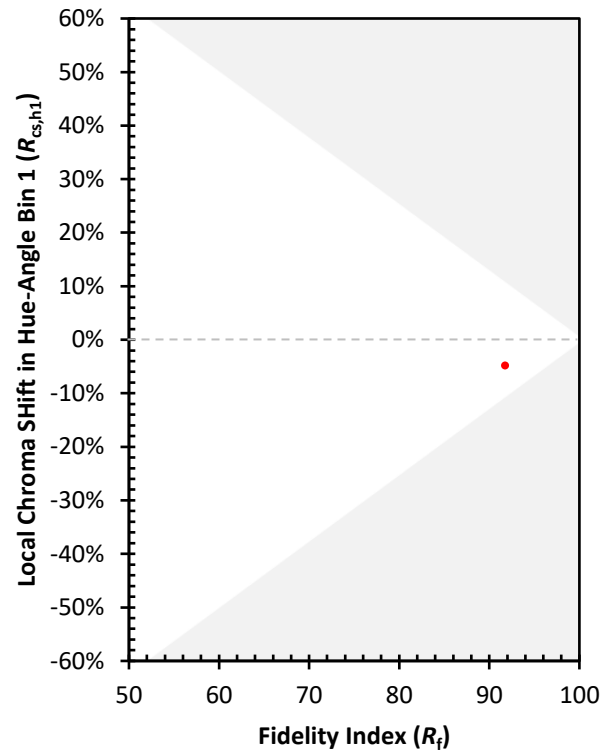
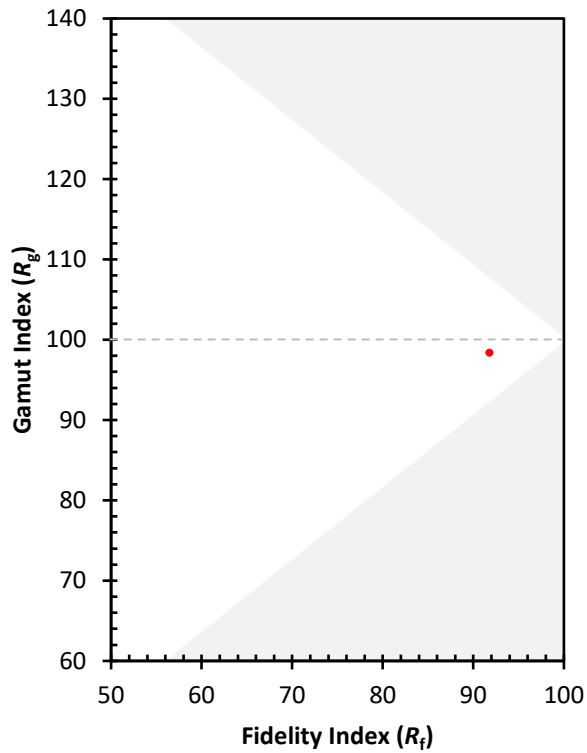
Individual Sample Fidelity Index ($R_{f,i}$)

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)