

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: P1049937

Luminaire Tested: **GALN-SA3A-930-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049937
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

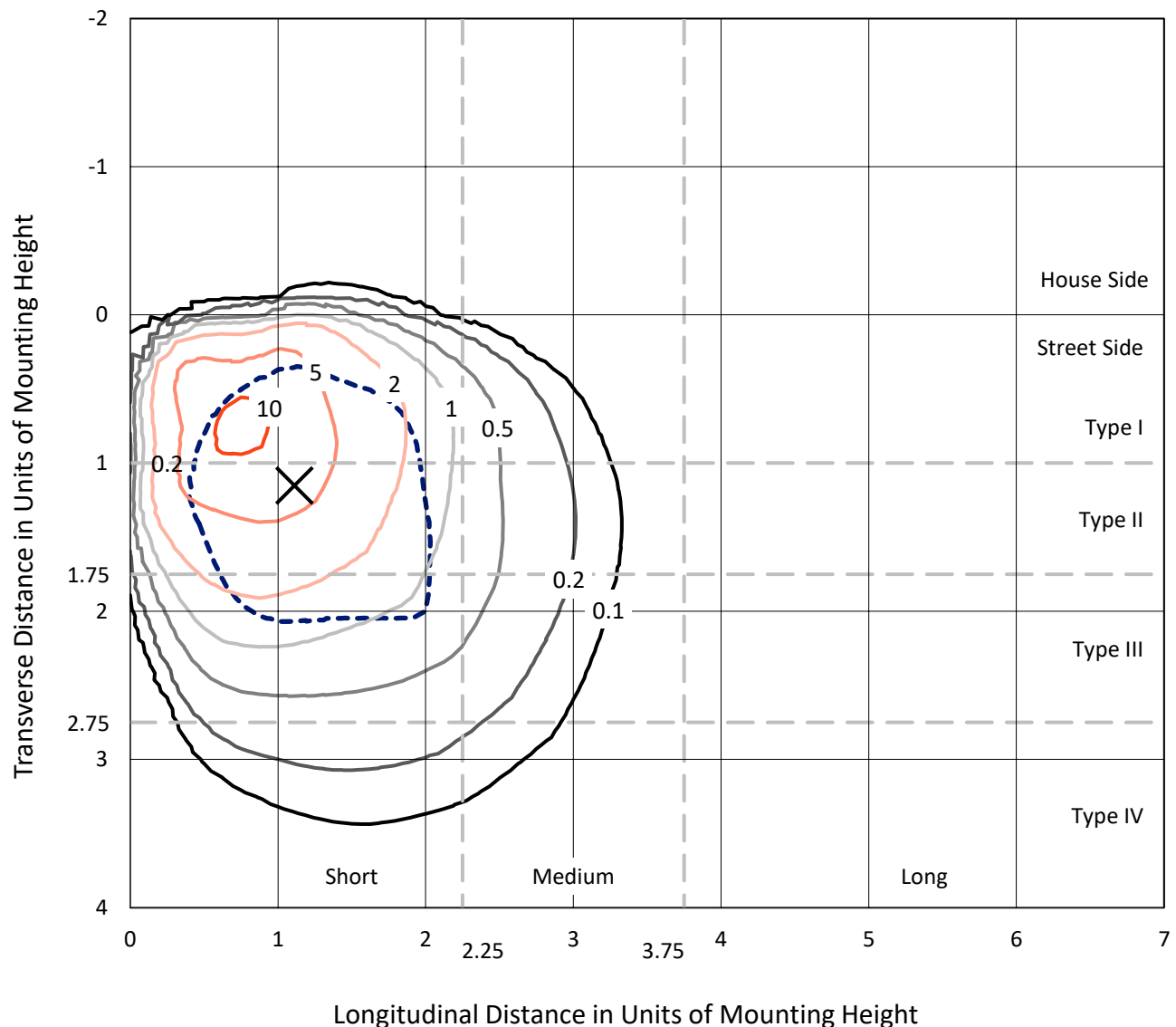
Lumens per Lamp: N/A
Luminaire Lumens: 6916.7 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 81.4
Input Voltage (V): 120
Input Current (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

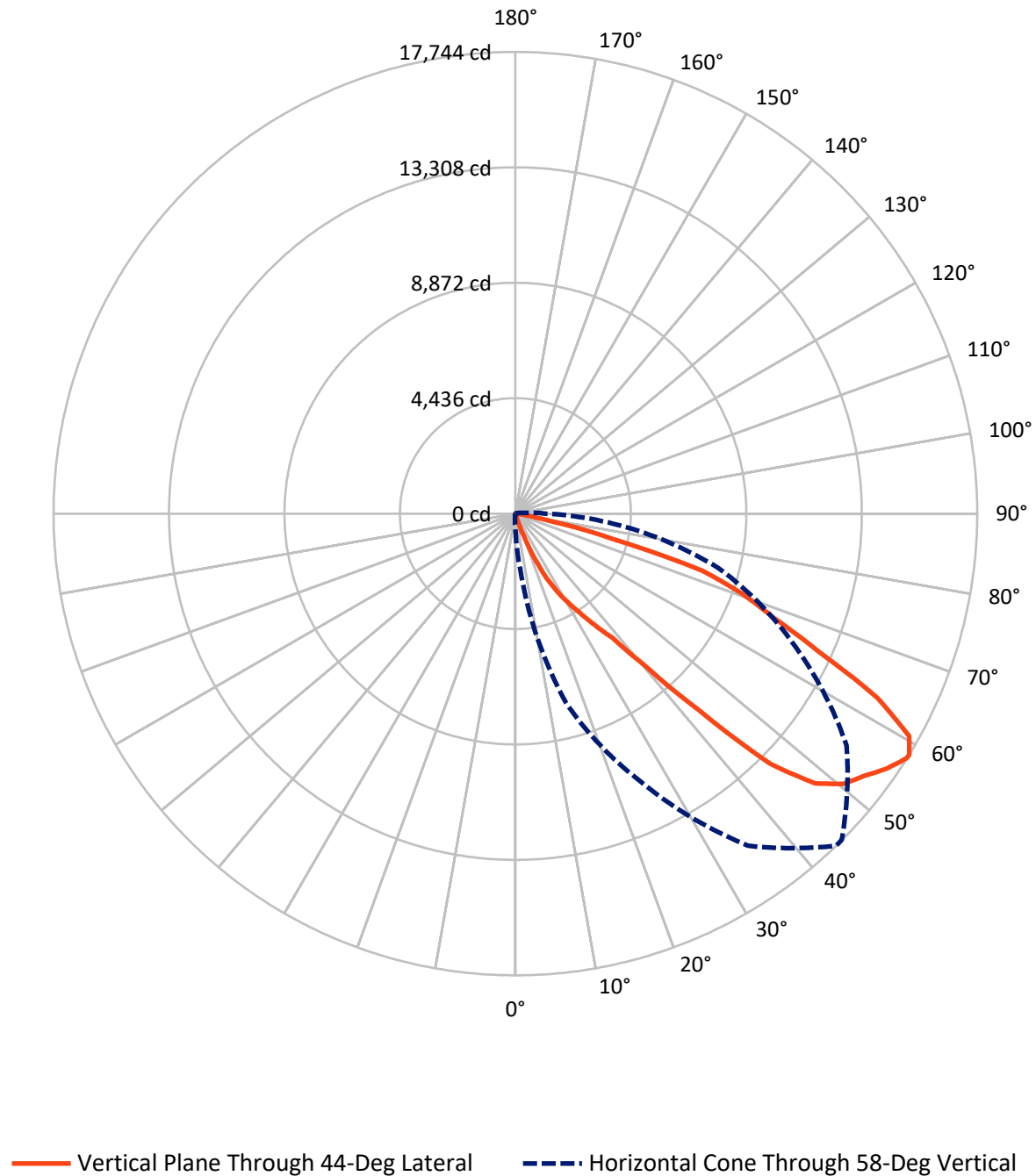
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	47.2	0.0	47.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	6869.5	0.0	6869.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	6916.7	0.0	6916.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.0
10°-20°	15.2	0.2
20°-30°	163.9	2.4
30°-40°	484.6	7.0
40°-50°	1444.3	20.9
50°-60°	2291.8	33.1
60°-70°	1911.6	27.6
70°-80°	589.6	8.5
80°-90°	13.1	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°	6916.7	100.0
0°-180°	6916.7	100.0



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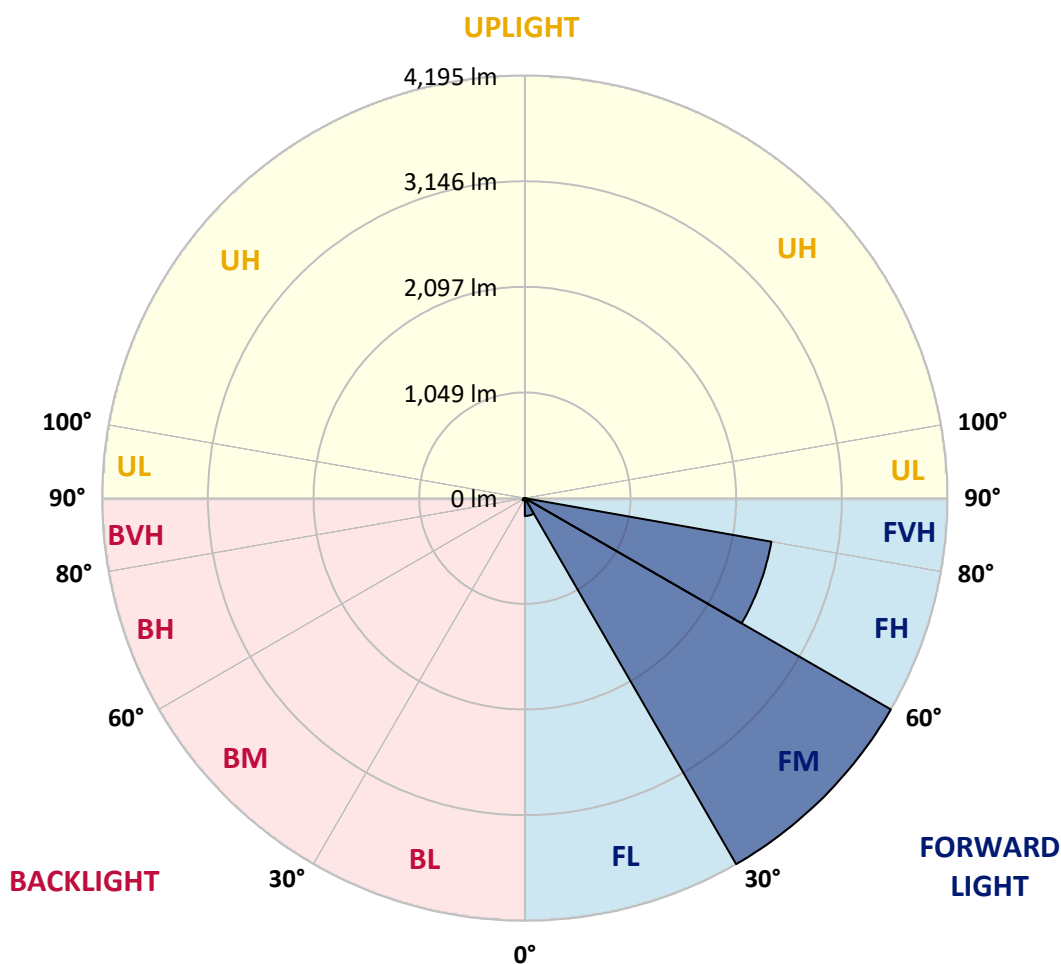
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	177.1	2.6			
FM	(30°-60°)	4194.9	60.6			
FH	(60°-80°)	2485.1	35.9			G2/5000
FVH	(80°-90°)	12.5	0.2			G1/100
BL	(0°-30°)	4.6	0.1	B0/110		
BM	(30°-60°)	25.8	0.4	B0/220		
BH	(60°-80°)	16.1	0.2	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
2.5°	39.2	39.2	37.6	35.5	33.4	31.4	30.8	29.8	29.3	28.7
5°	40.8	40.8	40.2	38.7	36.6	35.0	35.0	33.4	32.4	31.4
7.5°	41.8	42.3	43.4	42.8	41.8	40.2	40.2	39.2	37.6	35.0
10°	43.4	44.9	47.0	48.1	48.6	48.6	48.1	47.5	44.9	41.3
12.5°	44.9	48.1	53.3	58.5	61.7	65.8	65.3	64.3	57.5	49.6
15°	48.1	52.8	63.7	78.9	102.4	117.0	122.8	117.6	95.1	66.9
17.5°	51.7	59.6	92.5	165.1	270.7	320.8	351.1	326.6	216.3	127.0
20°	55.4	72.6	171.9	427.9	702.2	866.3	911.8	840.7	539.7	241.9
22.5°	61.7	101.9	348.5	884.6	1513.2	1759.3	1805.8	1578.5	1019.4	477.6
25°	74.7	147.9	600.9	1441.6	2258.2	2673.6	2654.3	2356.5	1653.7	762.9
27.5°	93.5	215.3	908.6	2048.2	2972.0	3338.3	3382.1	3013.8	2204.4	1121.8
30°	120.7	298.3	1238.8	2534.1	3544.1	3940.2	3947.5	3566.6	2697.1	1436.9
32.5°	146.8	376.7	1527.8	3003.9	4107.9	4542.1	4574.5	4105.8	3065.0	1765.0
35°	166.7	427.9	1820.4	3416.6	4676.4	5274.6	5272.6	4716.1	3500.8	2058.1
37.5°	168.2	479.1	2085.3	3838.8	5396.4	6066.2	6132.6	5519.2	4027.4	2420.7
40°	164.6	536.6	2420.7	4497.2	6693.8	7721.5	7780.0	7006.7	5083.9	3041.5
42.5°	168.8	636.4	2965.2	5713.0	8848.0	10324.1	10436.9	9623.9	7026.1	4308.0
45°	190.7	824.0	4105.8	7747.1	11918.8	13718.2	13680.6	12509.7	9285.9	6236.0
47.5°	263.3	1283.3	5796.6	9726.9	13881.3	15483.8	15516.2	14085.0	10604.7	7718.4
50°	404.9	1963.6	7217.3	10773.4	14725.1	16332.8	16302.5	14648.8	11105.7	8448.3
52.5°	526.7	2455.8	7930.0	11140.8	14833.3	16752.4	16750.3	14797.2	11183.6	8511.0
55°	557.0	2492.8	7935.7	11160.6	15075.7	17301.6	17370.5	15162.4	11284.4	8237.2
57.5°	545.0	2207.0	7604.5	11275.6	15507.3	17726.3	17730.0	15516.2	11540.5	8069.5
58°	534.5	2162.1	7537.6	11340.9	15581.5	17744.1	17735.2	15532.4	11748.9	8063.2
60°	476.0	1877.3	7276.9	11507.5	15471.2	17379.4	17296.3	15178.6	11718.1	7999.0
62.5°	374.1	1464.6	7020.3	11314.7	14289.3	15613.9	15648.4	13438.2	10682.5	7624.3
65°	297.8	1091.5	6485.3	9924.9	11766.7	12822.2	12950.7	10927.6	8916.5	6456.0
67.5°	237.2	789.0	5440.3	7901.8	9311.0	10701.3	10794.9	9174.6	6908.0	4946.5
70°	192.8	533.5	3755.2	5778.9	7679.7	9243.0	9248.8	7621.7	5156.0	3241.1
72.5°	170.9	369.4	2179.9	4214.5	6227.2	7531.8	7379.8	6184.8	3962.6	1919.7
75°	147.9	245.1	1069.0	2576.4	3775.6	3801.2	3859.2	2869.0	1980.8	912.8
77.5°	121.7	174.0	421.1	703.8	1132.3	1449.4	1503.2	1139.1	658.9	224.7
80°	83.6	82.6	113.4	215.8	324.0	406.0	378.8	293.1	172.4	86.2
82.5°	36.1	39.2	51.2	61.7	50.2	48.6	46.5	29.8	23.0	17.8
85°	11.5	10.5	11.0	11.0	8.9	6.8	6.8	3.1	0.0	0.0
87.5°	5.7	4.7	4.7	4.2	2.6	1.0	0.5	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°
30.3	0°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
28.2	2.5°	27.7	27.7	26.6	25.6	25.1	24.0	23.5	23.0	22.5	21.9
30.3	5°	29.3	28.7	27.2	25.6	24.0	22.5	21.4	20.4	19.3	18.8
33.4	7.5°	31.9	30.8	27.7	25.1	23.0	20.9	19.9	18.3	17.2	15.7
37.1	10°	35.0	32.9	28.7	25.6	22.5	19.9	18.3	16.7	15.2	13.1
42.3	12.5°	39.2	35.5	30.3	25.1	21.4	18.3	16.7	14.6	13.1	11.5
49.1	15°	42.8	38.1	30.8	25.1	20.4	16.7	14.6	12.5	11.0	8.9
61.7	17.5°	48.1	40.2	30.3	23.5	18.8	14.6	12.5	11.0	8.4	5.2
91.4	20°	57.0	41.8	29.3	21.9	16.2	12.0	9.4	7.3	3.7	1.0
137.4	22.5°	71.1	46.0	28.2	19.9	14.1	9.4	6.3	2.6	0.0	0.0
209.0	25°	98.2	53.3	28.2	18.8	12.5	6.8	2.1	0.0	0.0	0.0
296.8	27.5°	130.6	63.2	28.2	16.2	9.9	3.7	0.0	0.0	0.0	0.0
404.4	30°	163.5	74.2	28.2	14.1	7.8	0.5	0.0	0.0	0.0	0.0
497.9	32.5°	194.9	83.6	28.7	12.0	5.2	0.0	0.0	0.0	0.0	0.0
627.5	35°	226.8	85.2	28.2	10.5	3.1	0.0	0.0	0.0	0.0	0.0
786.4	37.5°	267.5	82.0	26.6	9.4	1.6	0.0	0.0	0.0	0.0	0.0
1034.6	40°	329.2	83.6	25.1	8.9	0.5	0.0	0.0	0.0	0.0	0.0
1477.1	42.5°	443.1	90.4	23.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0
2352.8	45°	766.0	121.2	20.9	9.4	0.0	0.0	0.0	0.0	0.0	0.0
3532.1	47.5°	1267.1	217.9	20.4	9.4	0.0	0.0	0.0	0.0	0.0	0.0
4254.7	50°	1617.1	274.3	21.4	9.9	0.0	0.0	0.0	0.0	0.0	0.0
4345.1	52.5°	1614.5	305.7	22.5	10.5	2.1	0.0	0.0	0.0	0.0	0.0
4005.0	55°	1435.3	311.4	24.0	11.5	6.8	0.0	0.0	0.0	0.0	0.0
3441.7	57.5°	1199.7	284.2	27.7	14.1	12.5	0.0	0.0	0.0	0.0	0.0
3353.4	58°	1157.9	271.7	28.7	14.6	13.6	0.0	0.0	0.0	0.0	0.0
2908.8	60°	948.9	221.5	36.6	18.3	18.3	0.0	0.0	0.0	0.0	0.0
2384.7	62.5°	655.2	193.3	41.8	23.5	18.8	0.0	0.0	0.0	0.0	0.0
1758.2	65°	463.5	174.5	45.5	25.1	15.2	0.0	0.0	0.0	0.0	0.0
1249.3	67.5°	346.4	160.9	50.2	25.6	7.8	0.0	0.0	0.0	0.0	0.0
783.8	70°	265.4	151.0	61.7	27.2	2.1	0.0	0.0	0.0	0.0	0.0
467.1	72.5°	216.3	139.5	74.7	28.2	0.0	0.0	0.0	0.0	0.0	0.0
280.1	75°	179.2	125.9	72.1	30.8	0.0	0.0	0.0	0.0	0.0	0.0
149.4	77.5°	119.1	97.7	65.8	30.8	0.0	0.0	0.0	0.0	0.0	0.0
53.3	80°	41.8	38.7	51.2	27.2	0.0	0.0	0.0	0.0	0.0	0.0
11.0	82.5°	6.3	5.2	7.3	9.4	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°
30.3	0°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
21.4	2.5°	21.4	21.4	20.9	21.4	21.4	22.5	25.1	28.7	32.9	34.5
18.3	5°	17.8	17.2	16.7	16.7	16.7	18.3	20.4	24.6	29.3	31.4
15.2	7.5°	14.6	14.1	13.6	13.1	13.1	14.1	16.7	21.4	26.1	28.2
12.5	10°	12.0	11.0	10.5	9.9	9.9	11.0	13.6	18.3	23.5	25.6
10.5	12.5°	9.9	8.4	7.3	6.8	6.3	7.8	10.5	14.6	20.4	23.0
7.8	15°	6.8	5.2	3.7	3.1	2.6	4.2	6.8	11.5	17.2	20.4
4.2	17.5°	3.7	1.6	0.5	0.0	0.0	1.0	3.1	8.4	14.1	16.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	10.5	13.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	6.3	8.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	4.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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	1.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
30.3	0°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
36.1	2.5°	37.1	36.6	35.5	34.5	34.5	34.5	36.1	37.6	39.2	39.2
32.4	5°	34.5	34.5	34.0	32.9	32.9	33.4	35.5	38.1	40.2	40.8
29.8	7.5°	31.9	32.9	31.9	31.4	31.9	32.4	34.5	37.6	40.8	41.8
27.7	10°	30.3	30.8	30.8	30.3	30.3	31.4	33.4	37.6	41.8	43.4
25.1	12.5°	28.2	29.3	28.7	28.7	28.7	29.8	32.4	37.1	42.8	44.9
22.5	15°	26.1	27.7	27.7	27.2	27.2	27.7	31.4	36.6	44.4	48.1
19.3	17.5°	24.0	25.6	26.1	25.1	25.1	26.1	29.8	36.6	45.5	51.7
15.7	20°	19.9	22.5	24.0	22.5	22.5	23.5	27.2	34.5	46.0	55.4
11.5	22.5°	15.7	18.3	20.4	19.9	19.9	20.4	25.1	32.9	46.5	61.7
6.8	25°	11.5	14.1	15.7	16.7	16.7	18.3	23.0	31.9	48.6	74.7
3.1	27.5°	6.8	9.9	12.0	13.1	13.6	15.7	21.4	30.8	52.3	93.5
0.0	30°	3.1	5.7	8.4	10.5	10.5	14.1	19.9	29.8	57.0	120.7
0.0	32.5°	0.0	2.6	4.2	7.3	7.8	11.5	18.3	28.7	63.7	146.8
0.0	35°	0.0	0.0	2.1	5.7	5.7	9.4	16.7	27.7	74.2	166.7
0.0	37.5°	0.0	0.0	0.0	4.2	4.7	8.4	16.2	27.2	76.3	168.2
0.0	40°	0.0	0.0	0.0	3.1	3.7	7.8	16.2	27.7	69.0	164.6
0.0	42.5°	0.0	0.0	0.0	2.1	2.6	7.8	16.2	28.7	62.2	168.8
0.0	45°	0.0	0.0	0.0	1.6	2.1	8.4	15.7	28.2	58.5	190.7
0.0	47.5°	0.0	0.0	0.0	2.1	3.1	8.4	15.2	27.7	59.0	263.3
0.0	50°	0.0	0.0	0.0	2.6	3.7	8.4	15.7	26.6	64.8	404.9
0.0	52.5°	0.0	0.0	0.0	2.1	3.1	9.4	17.2	26.1	70.5	526.7
0.0	55°	0.0	0.0	0.0	0.5	1.6	12.0	18.8	26.1	79.4	557.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	13.6	21.4	27.7	94.1	545.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	13.6	21.9	27.7	95.1	534.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	13.6	24.0	30.8	102.4	476.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	11.5	28.7	38.7	106.6	374.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	9.4	34.0	42.3	109.7	297.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	8.9	35.0	42.8	111.3	237.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	9.4	34.5	46.0	116.5	192.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	10.5	31.4	50.7	116.5	170.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	11.0	29.3	57.0	106.1	147.9
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	10.5	28.7	66.4	94.6	121.7
0.0	80°	1.0	1.6	1.6	1.0	1.0	8.9	28.2	67.4	80.5	83.6
0.5	82.5°	3.1	4.2	3.7	2.6	2.6	7.8	25.1	56.4	41.8	36.1
3.1	85°	5.7	6.8	6.8	5.7	5.7	7.3	15.7	20.4	14.1	11.5
5.7	87.5°	7.8	8.9	8.9	7.8	7.8	7.3	6.8	6.3	5.7	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

(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: SP1-2407-184-14

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-930-U-5WQ

Data in this report applies to families of products including GSS-SB1A-930-U-5WQ

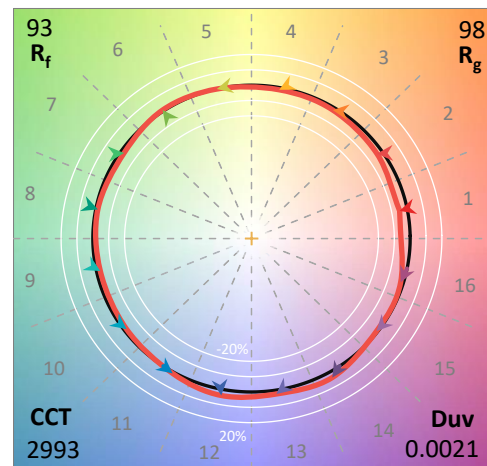
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-14
 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-930-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2993
 CIE u' : 0.2501
 CIE v' : 0.5245
 Duv: 0.0021
 CIE x: 0.4406
 CIE y: 0.4107
 CIE z: 0.1487
 Peak Wavelength (nm): 621
 Dominant Wavelength (nm): 582
 Purity: 55.53327
 R_f: 92.6
 R_g: 98.5

CRI (Ra): 92.4
 R1: 92.2
 R2: 95.2
 R3: 97.0
 R4: 93.1
 R5: 91.7
 R6: 94.2
 R7: 93.3
 R8: 82.3
 R9: 58.2
 R10: 87.7
 R11: 93.5
 R12: 81.7
 R13: 92.9
 R14: 97.6
 R15: 88.1



Test Conditions

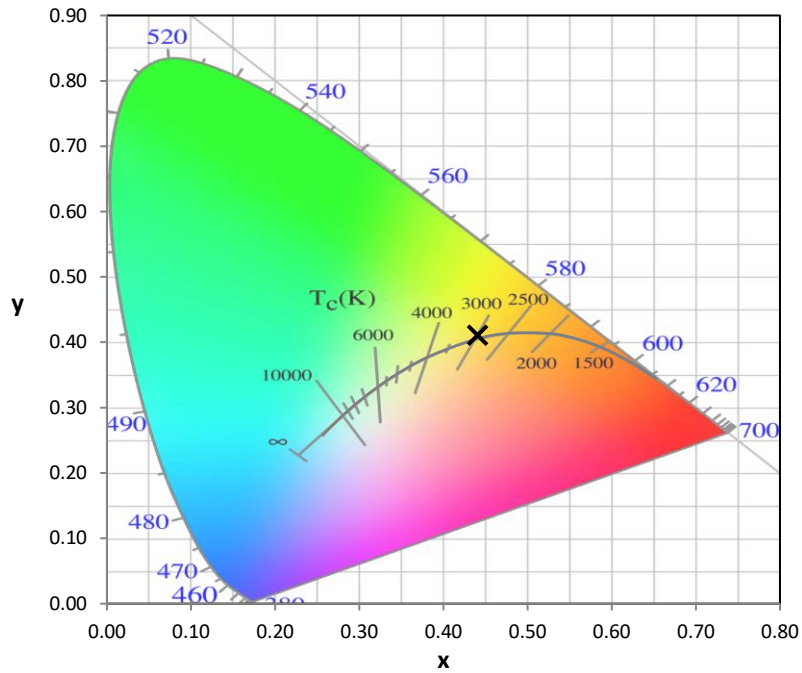
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

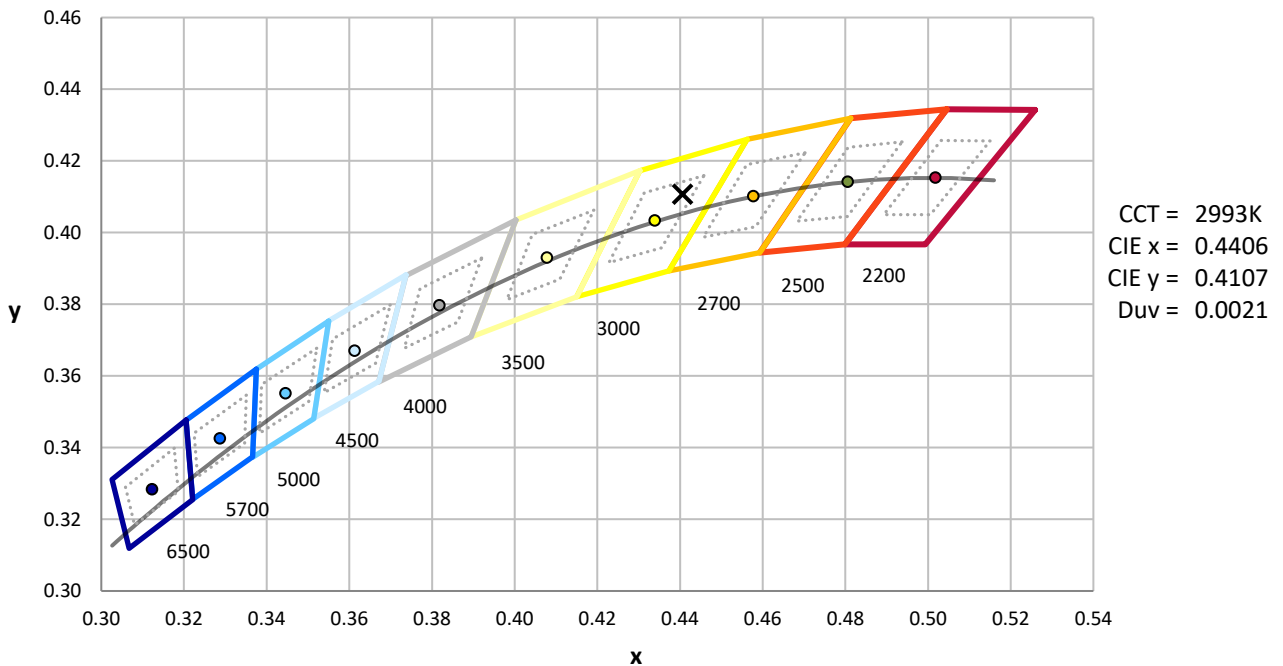
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



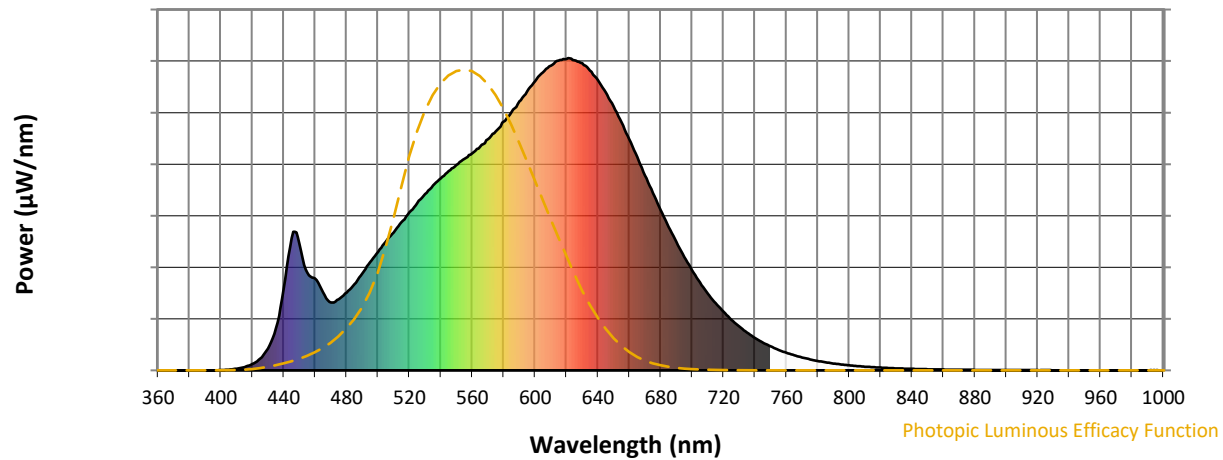
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

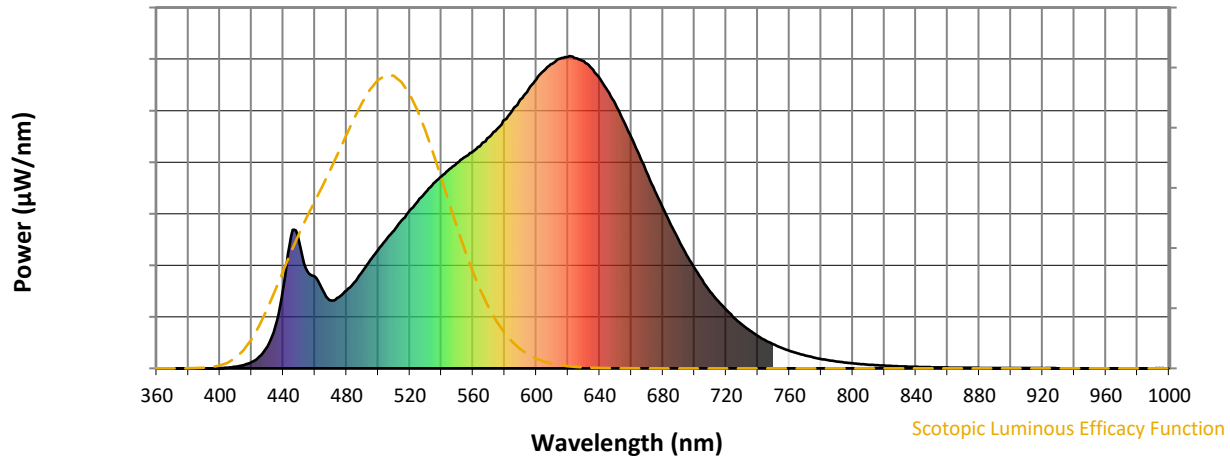


Photopic Lumens: NR

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

Scotopic Flux vs. Wavelength



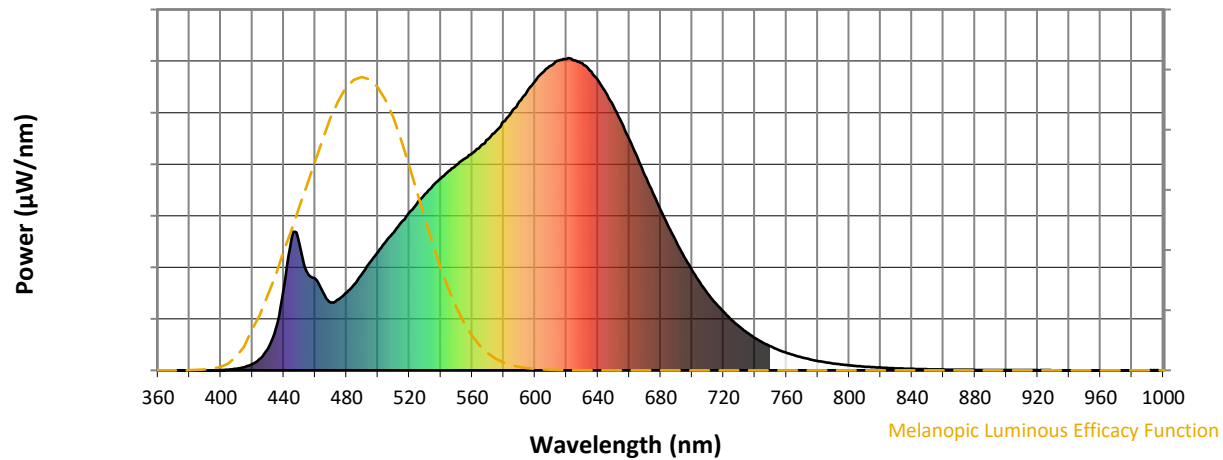
Scotopic Lumens: NR

S/P: 1.39

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.69

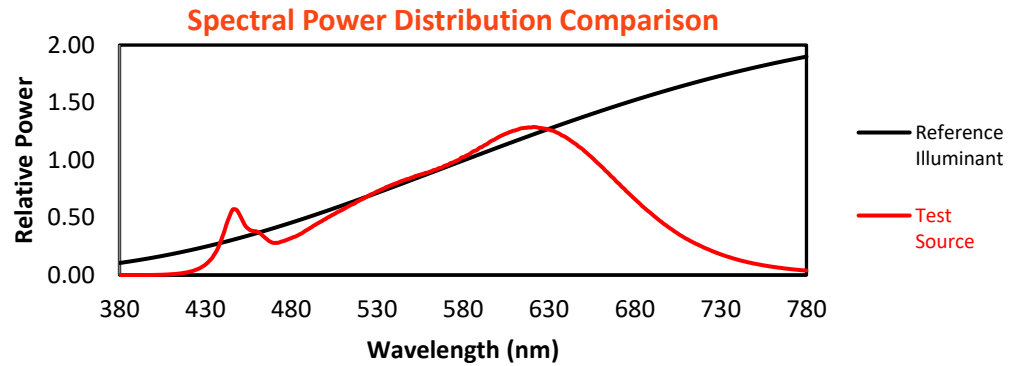
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

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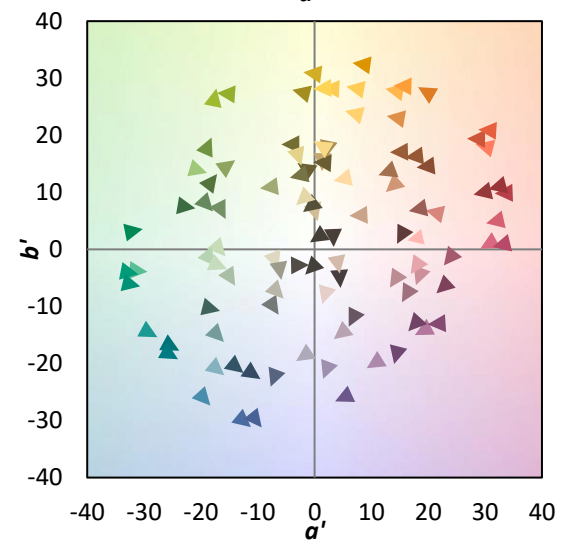
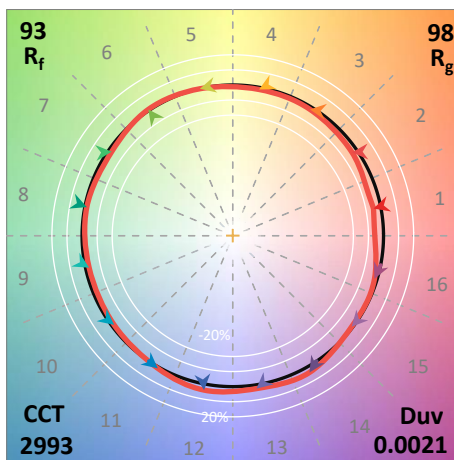
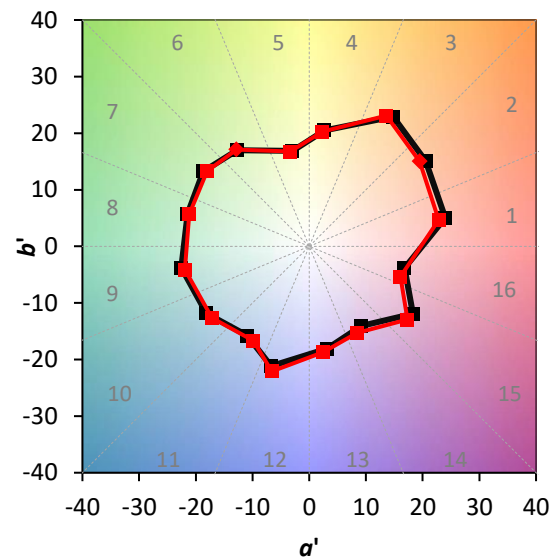
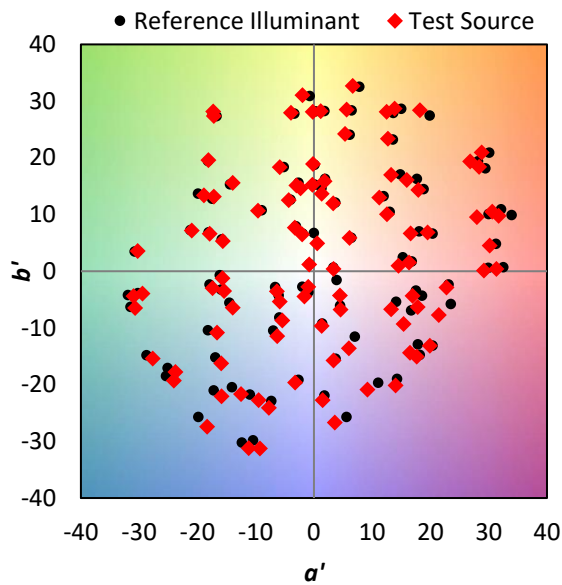
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98.5$
 $CIE R_a = 92.4$
 $R_9 = 58.2$

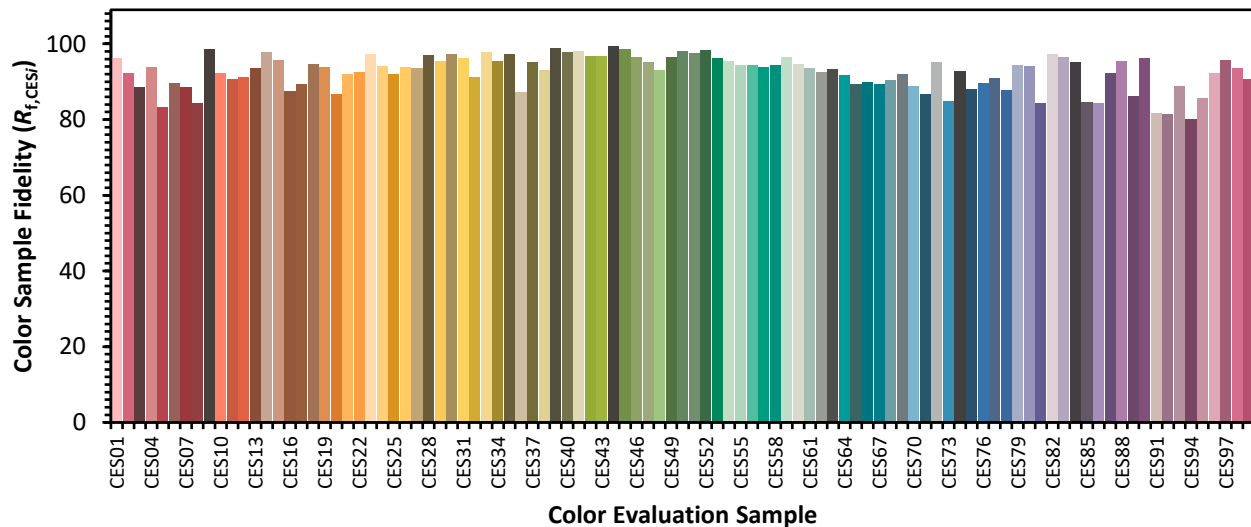


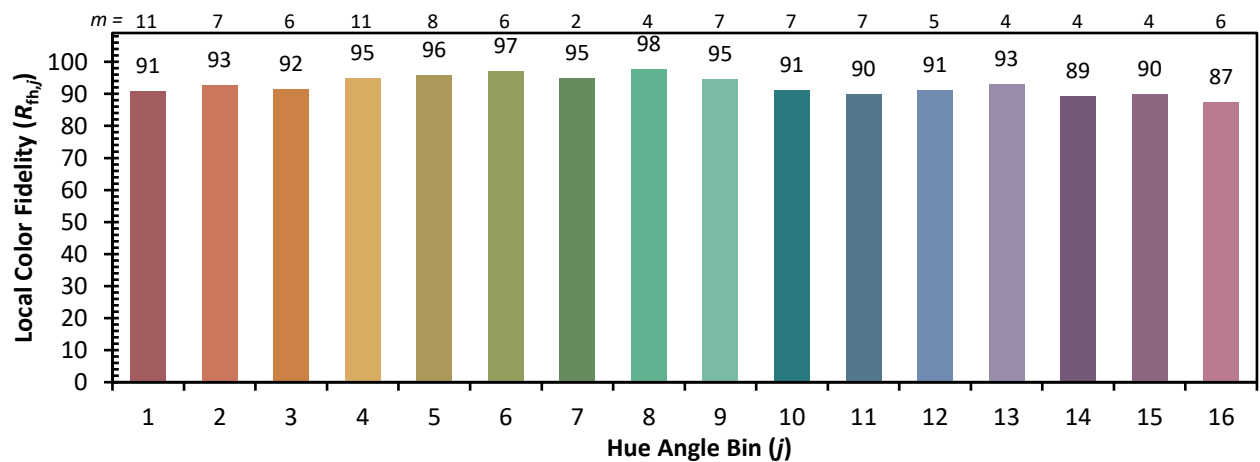
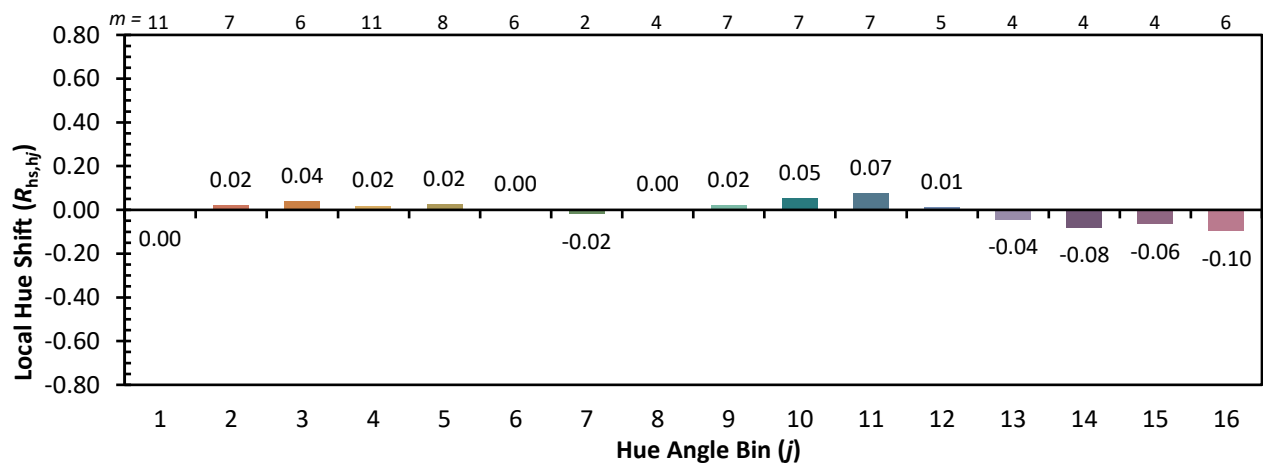
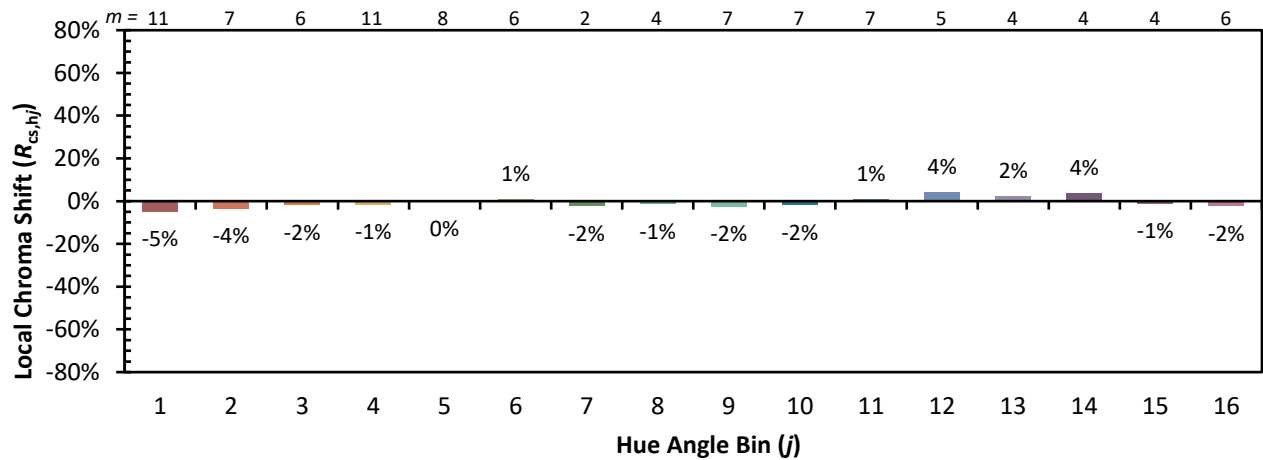
Color Vector Graphics



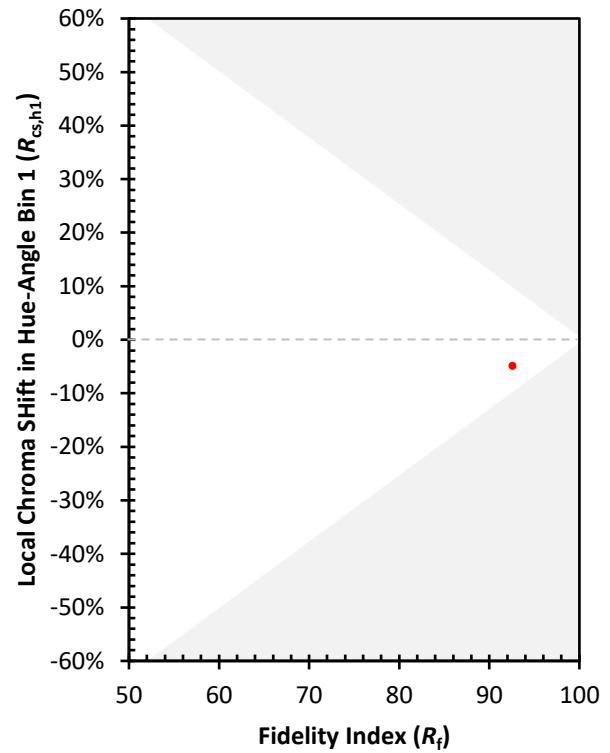
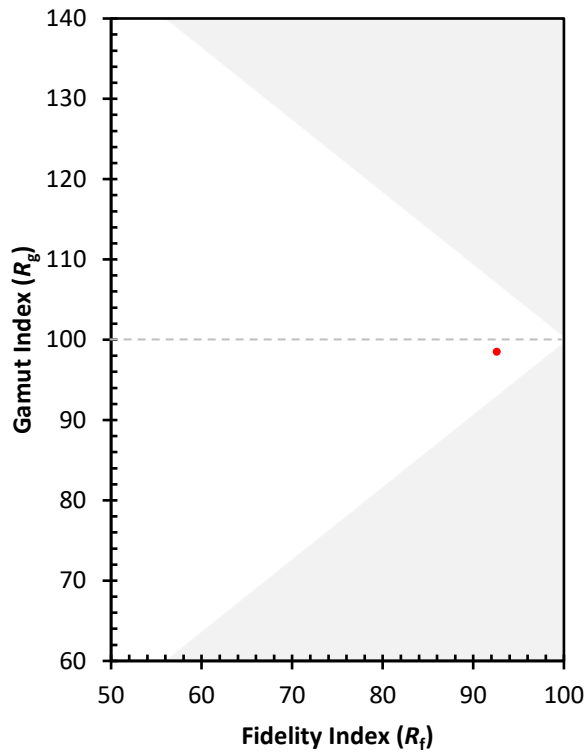
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 42	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 96	CES59 = 97	CES84 = 95
CES10 = 76	CES35 = 97	CES60 = 95	CES85 = 85
CES11 = 59	CES36 = 87	CES61 = 94	CES86 = 84
CES12 = 65	CES37 = 95	CES62 = 92	CES87 = 92
CES13 = 44	CES38 = 93	CES63 = 93	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 86
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 90	CES91 = 82
CES17 = 50	CES42 = 97	CES67 = 89	CES92 = 81
CES18 = 57	CES43 = 97	CES68 = 90	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 92	CES94 = 80
CES20 = 67	CES45 = 99	CES70 = 89	CES95 = 86
CES21 = 86	CES46 = 96	CES71 = 87	CES96 = 92
CES22 = 79	CES47 = 95	CES72 = 95	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 97	CES74 = 93	CES99 = 91
CES25 = 72	CES50 = 98	CES75 = 88	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)