

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: P1049470

Luminaire Tested: **GALN-SA3B-740-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049470
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12822.7 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

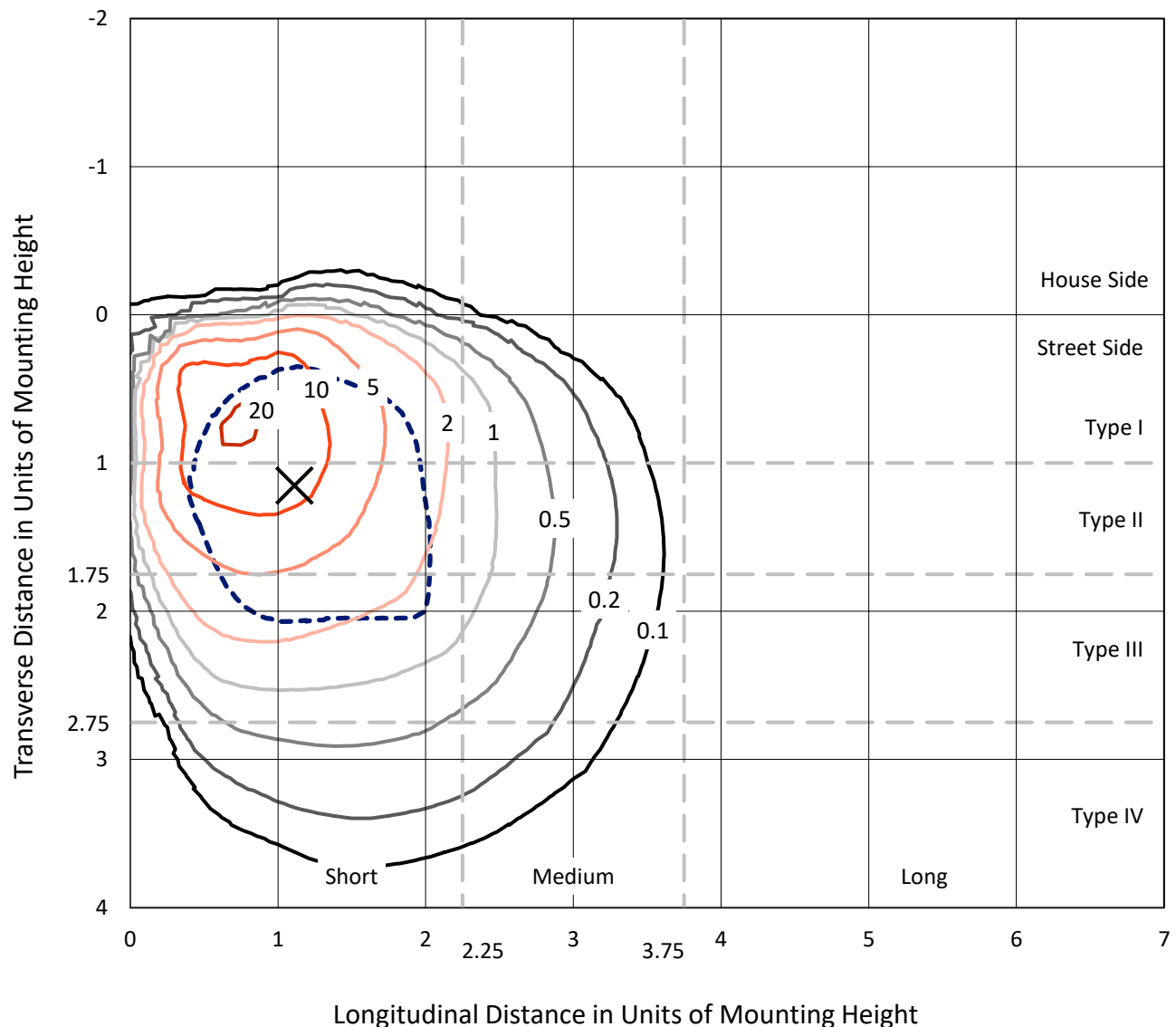
Input Watts (W): 106.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

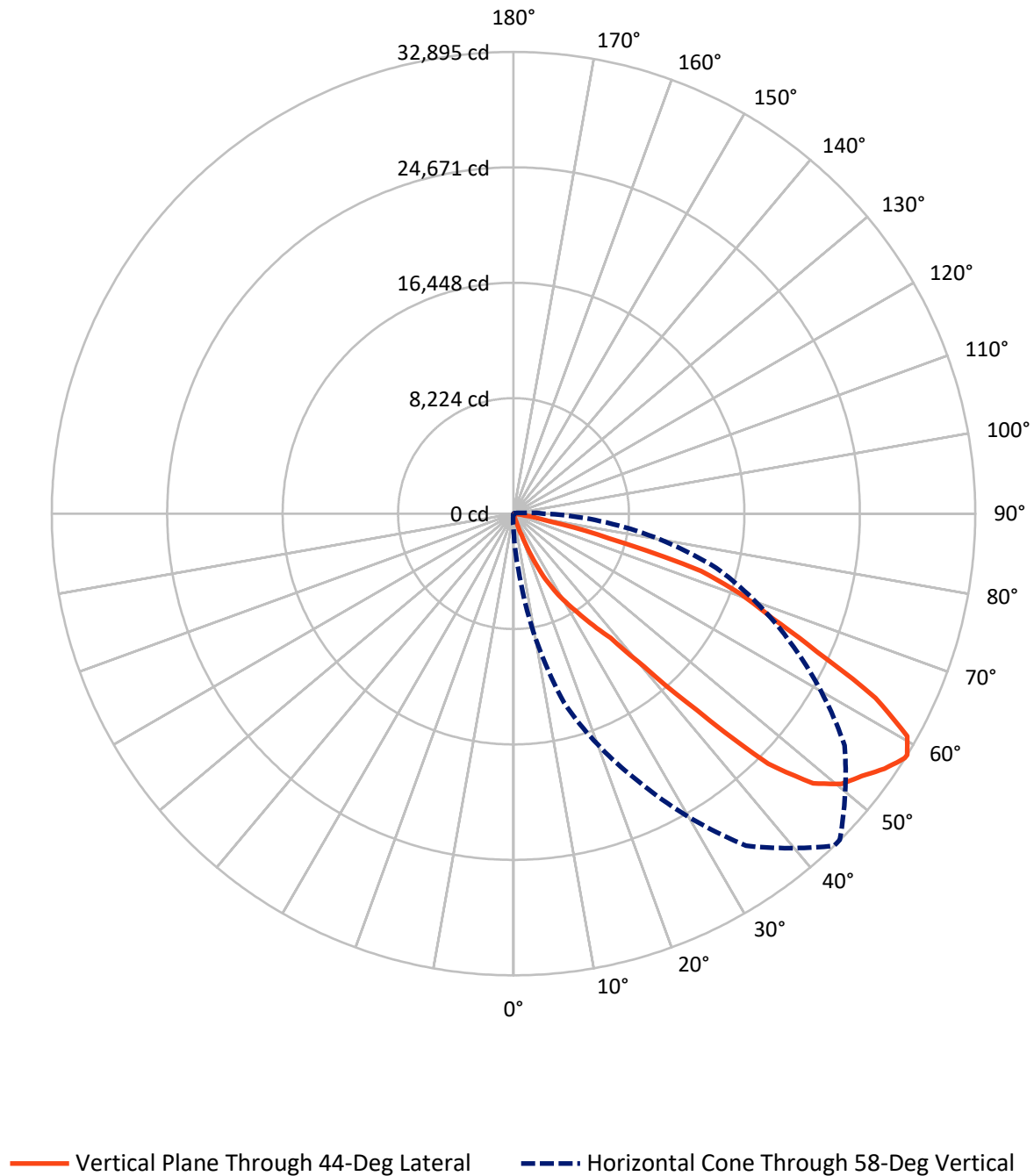
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.3 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	87.6	0.0	87.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	12735.1	0.0	12735.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	12822.7	0.0	12822.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.0
10°-20°	28.1	0.2
20°-30°	303.8	2.4
30°-40°	898.4	7.0
40°-50°	2677.6	20.9
50°-60°	4248.7	33.1
60°-70°	3543.9	27.6
70°-80°	1093.0	8.5
80°-90°	24.3	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°	12822.7	100.0
0°-180°	12822.7	100.0



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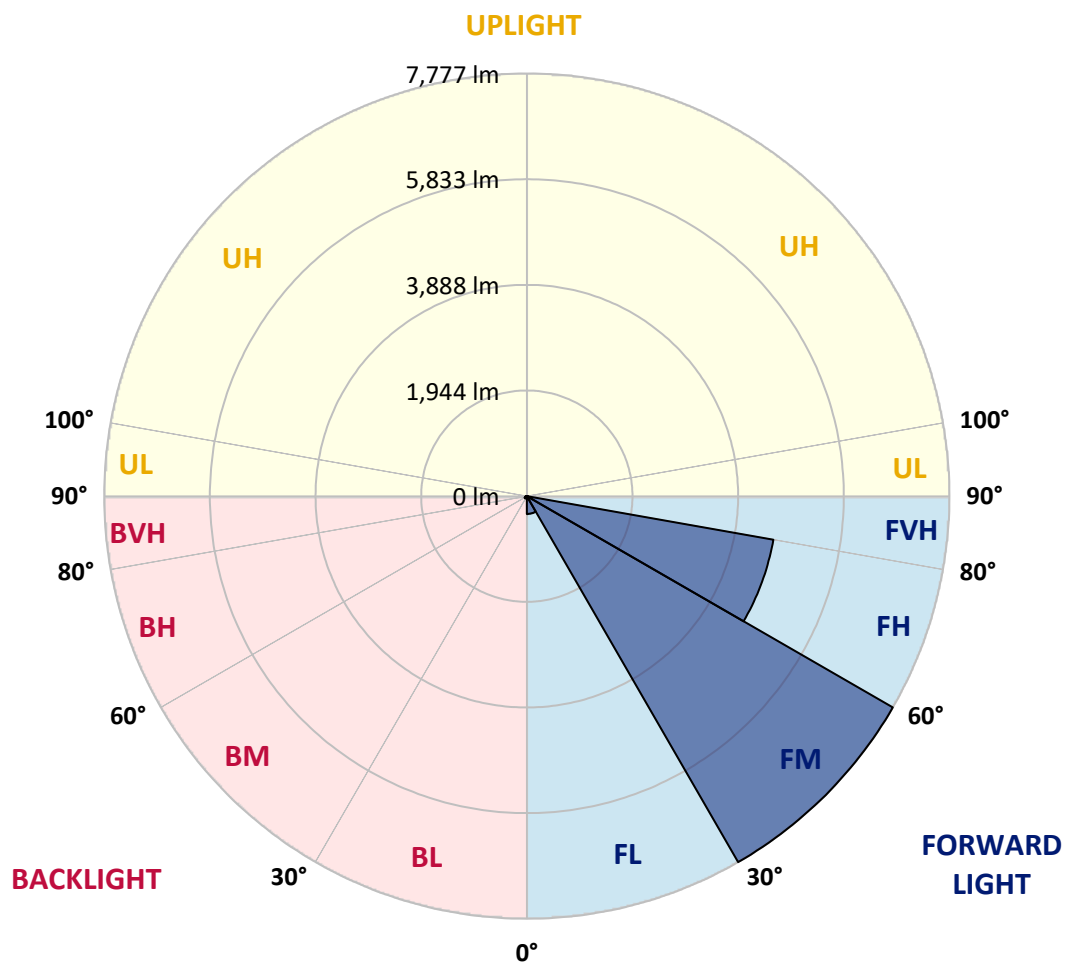
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	328.3	2.6			
FM	(30°-60°)	7776.7	60.6			
FH	(60°-80°)	4607.0	35.9			G2/5000
FVH	(80°-90°)	23.1	0.2			G1/100
BL	(0°-30°)	8.6	0.1	B0/110		
BM	(30°-60°)	47.9	0.4	B0/220		
BH	(60°-80°)	29.9	0.2	B0/110		G0/110
BVH	(80°-90°)	1.2	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°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
2.5°	72.6	72.6	69.7	65.9	62.0	58.1	57.2	55.2	54.2	53.3
5°	75.6	75.6	74.6	71.7	67.8	64.9	64.9	62.0	60.1	58.1
7.5°	77.5	78.5	80.4	79.4	77.5	74.6	74.6	72.6	69.7	64.9
10°	80.4	83.3	87.2	89.1	90.1	90.1	89.1	88.1	83.3	76.5
12.5°	83.3	89.1	98.8	108.5	114.3	122.0	121.1	119.1	106.6	92.0
15°	89.1	97.8	118.2	146.3	189.9	217.0	227.6	217.9	176.3	124.0
17.5°	95.9	110.4	171.5	306.1	501.8	594.7	650.9	605.4	401.0	235.4
20°	102.7	134.6	318.7	793.3	1301.9	1606.0	1690.3	1558.6	1000.6	448.5
22.5°	114.3	188.9	646.1	1639.9	2805.2	3261.4	3347.6	2926.3	1889.8	885.3
25°	138.5	274.1	1113.9	2672.5	4186.5	4956.6	4920.7	4368.6	3065.8	1414.2
27.5°	173.4	399.1	1684.5	3797.1	5509.7	6188.7	6270.0	5587.1	4086.7	2079.7
30°	223.8	553.1	2296.7	4697.9	6570.3	7304.6	7318.1	6612.0	5000.1	2663.8
32.5°	272.2	698.4	2832.3	5568.7	7615.5	8420.4	8480.5	7611.6	5682.1	3272.1
35°	309.0	793.3	3374.8	6334.0	8669.4	9778.5	9774.6	8743.0	6489.9	3815.5
37.5°	311.9	888.2	3865.9	7116.6	10004.2	11246.0	11369.0	10231.8	7466.3	4487.7
40°	305.1	994.8	4487.7	8337.1	12409.3	14314.6	14423.1	12989.5	9424.9	5638.5
42.5°	312.9	1179.8	5497.1	10591.2	16403.0	19139.5	19348.7	17841.5	13025.4	7986.5
45°	353.6	1527.6	7611.6	14362.1	22095.8	25431.8	25362.0	23191.3	17214.8	11560.8
47.5°	488.2	2379.0	10746.2	18032.3	25734.0	28704.8	28764.9	26111.8	19659.6	14308.8
50°	750.7	3640.2	13379.9	19972.5	27298.4	30278.9	30222.7	27156.9	20588.6	15662.0
52.5°	976.4	4552.6	14701.1	20653.5	27498.9	31056.7	31052.8	27432.0	20732.9	15778.3
55°	1032.6	4621.4	14711.8	20690.3	27948.3	32074.8	32202.6	28109.1	20919.8	15270.7
57.5°	1010.3	4091.6	14097.7	20903.4	28748.4	32862.3	32869.0	28764.9	21394.5	14959.8
58°	990.9	4008.3	13973.7	21024.5	28886.0	32895.2	32878.7	28794.9	21781.0	14948.1
60°	882.4	3480.3	13490.3	21333.4	28681.6	32219.1	32065.1	28139.2	21723.8	14829.0
62.5°	693.6	2715.1	13014.7	20976.0	26490.5	28946.0	29010.0	24912.6	19804.0	14134.5
65°	552.1	2023.5	12022.8	18399.4	21813.9	23770.6	24008.8	20258.3	16529.9	11968.6
67.5°	439.8	1462.7	10085.5	14648.8	17261.3	19838.8	20012.2	17008.4	12806.5	9170.2
70°	357.4	989.0	6961.7	10713.2	14237.2	17135.3	17146.0	14129.6	9558.6	6008.5
72.5°	316.7	684.8	4041.2	7813.1	11544.3	13963.0	13681.1	11465.9	7346.2	3558.8
75°	274.1	454.3	1981.8	4776.4	6999.4	7046.9	7154.4	5318.8	3672.1	1692.2
77.5°	225.7	322.6	780.7	1304.8	2099.1	2687.0	2786.8	2111.6	1221.5	416.5
80°	155.0	153.0	210.2	400.1	600.6	752.6	702.3	543.4	319.7	159.8
82.5°	66.8	72.6	94.9	114.3	93.0	90.1	86.2	55.2	42.6	32.9
85°	21.3	19.4	20.3	20.3	16.5	12.6	12.6	5.8	0.0	0.0
87.5°	10.7	8.7	8.7	7.7	4.8	1.9	1.0	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
56.2	0°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
52.3	2.5°	51.3	51.3	49.4	47.5	46.5	44.6	43.6	42.6	41.7	40.7
56.2	5°	54.2	53.3	50.4	47.5	44.6	41.7	39.7	37.8	35.8	34.9
62.0	7.5°	59.1	57.2	51.3	46.5	42.6	38.7	36.8	33.9	32.0	29.1
68.8	10°	64.9	61.0	53.3	47.5	41.7	36.8	33.9	31.0	28.1	24.2
78.5	12.5°	72.6	65.9	56.2	46.5	39.7	33.9	31.0	27.1	24.2	21.3
91.1	15°	79.4	70.7	57.2	46.5	37.8	31.0	27.1	23.2	20.3	16.5
114.3	17.5°	89.1	74.6	56.2	43.6	34.9	27.1	23.2	20.3	15.5	9.7
169.5	20°	105.6	77.5	54.2	40.7	30.0	22.3	17.4	13.6	6.8	1.9
254.8	22.5°	131.7	85.2	52.3	36.8	26.2	17.4	11.6	4.8	0.0	0.0
387.5	25°	182.1	98.8	52.3	34.9	23.2	12.6	3.9	0.0	0.0	0.0
550.2	27.5°	242.2	117.2	52.3	30.0	18.4	6.8	0.0	0.0	0.0	0.0
749.7	30°	303.2	137.5	52.3	26.2	14.5	1.0	0.0	0.0	0.0	0.0
923.1	32.5°	361.3	155.0	53.3	22.3	9.7	0.0	0.0	0.0	0.0	0.0
1163.3	35°	420.4	157.9	52.3	19.4	5.8	0.0	0.0	0.0	0.0	0.0
1457.8	37.5°	495.9	152.1	49.4	17.4	2.9	0.0	0.0	0.0	0.0	0.0
1917.9	40°	610.2	155.0	46.5	16.5	1.0	0.0	0.0	0.0	0.0	0.0
2738.4	42.5°	821.4	167.6	42.6	16.5	0.0	0.0	0.0	0.0	0.0	0.0
4361.8	45°	1420.0	224.7	38.7	17.4	0.0	0.0	0.0	0.0	0.0	0.0
6548.0	47.5°	2349.0	403.9	37.8	17.4	0.0	0.0	0.0	0.0	0.0	0.0
7887.7	50°	2998.0	508.5	39.7	18.4	0.0	0.0	0.0	0.0	0.0	0.0
8055.3	52.5°	2993.1	566.7	41.7	19.4	3.9	0.0	0.0	0.0	0.0	0.0
7424.7	55°	2660.9	577.3	44.6	21.3	12.6	0.0	0.0	0.0	0.0	0.0
6380.5	57.5°	2224.0	526.9	51.3	26.2	23.2	0.0	0.0	0.0	0.0	0.0
6216.8	58°	2146.5	503.7	53.3	27.1	25.2	0.0	0.0	0.0	0.0	0.0
5392.4	60°	1759.1	410.7	67.8	33.9	33.9	0.0	0.0	0.0	0.0	0.0
4420.9	62.5°	1214.7	358.4	77.5	43.6	34.9	0.0	0.0	0.0	0.0	0.0
3259.5	65°	859.2	323.5	84.3	46.5	28.1	0.0	0.0	0.0	0.0	0.0
2316.0	67.5°	642.2	298.3	93.0	47.5	14.5	0.0	0.0	0.0	0.0	0.0
1453.0	70°	492.1	279.9	114.3	50.4	3.9	0.0	0.0	0.0	0.0	0.0
866.0	72.5°	401.0	258.6	138.5	52.3	0.0	0.0	0.0	0.0	0.0	0.0
519.2	75°	332.2	233.4	133.7	57.2	0.0	0.0	0.0	0.0	0.0	0.0
277.0	77.5°	220.9	181.1	122.0	57.2	0.0	0.0	0.0	0.0	0.0	0.0
98.8	80°	77.5	71.7	94.9	50.4	0.0	0.0	0.0	0.0	0.0	0.0
20.3	82.5°	11.6	9.7	13.6	17.4	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°
56.2	0°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
39.7	2.5°	39.7	39.7	38.7	39.7	39.7	41.7	46.5	53.3	61.0	63.9
33.9	5°	32.9	32.0	31.0	31.0	31.0	33.9	37.8	45.5	54.2	58.1
28.1	7.5°	27.1	26.2	25.2	24.2	24.2	26.2	31.0	39.7	48.4	52.3
23.2	10°	22.3	20.3	19.4	18.4	18.4	20.3	25.2	33.9	43.6	47.5
19.4	12.5°	18.4	15.5	13.6	12.6	11.6	14.5	19.4	27.1	37.8	42.6
14.5	15°	12.6	9.7	6.8	5.8	4.8	7.7	12.6	21.3	32.0	37.8
7.7	17.5°	6.8	2.9	1.0	0.0	0.0	1.9	5.8	15.5	26.2	31.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	19.4	24.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	11.6	16.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	8.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
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	2.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	7.7
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°
56.2	0°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
66.8	2.5°	68.8	67.8	65.9	63.9	63.9	63.9	66.8	69.7	72.6	72.6
60.1	5°	63.9	63.9	63.0	61.0	61.0	62.0	65.9	70.7	74.6	75.6
55.2	7.5°	59.1	61.0	59.1	58.1	59.1	60.1	63.9	69.7	75.6	77.5
51.3	10°	56.2	57.2	57.2	56.2	56.2	58.1	62.0	69.7	77.5	80.4
46.5	12.5°	52.3	54.2	53.3	53.3	53.3	55.2	60.1	68.8	79.4	83.3
41.7	15°	48.4	51.3	51.3	50.4	50.4	51.3	58.1	67.8	82.3	89.1
35.8	17.5°	44.6	47.5	48.4	46.5	46.5	48.4	55.2	67.8	84.3	95.9
29.1	20°	36.8	41.7	44.6	41.7	41.7	43.6	50.4	63.9	85.2	102.7
21.3	22.5°	29.1	33.9	37.8	36.8	36.8	37.8	46.5	61.0	86.2	114.3
12.6	25°	21.3	26.2	29.1	31.0	31.0	33.9	42.6	59.1	90.1	138.5
5.8	27.5°	12.6	18.4	22.3	24.2	25.2	29.1	39.7	57.2	96.9	173.4
0.0	30°	5.8	10.7	15.5	19.4	19.4	26.2	36.8	55.2	105.6	223.8
0.0	32.5°	0.0	4.8	7.7	13.6	14.5	21.3	33.9	53.3	118.2	272.2
0.0	35°	0.0	0.0	3.9	10.7	10.7	17.4	31.0	51.3	137.5	309.0
0.0	37.5°	0.0	0.0	0.0	7.7	8.7	15.5	30.0	50.4	141.4	311.9
0.0	40°	0.0	0.0	0.0	5.8	6.8	14.5	30.0	51.3	127.9	305.1
0.0	42.5°	0.0	0.0	0.0	3.9	4.8	14.5	30.0	53.3	115.3	312.9
0.0	45°	0.0	0.0	0.0	2.9	3.9	15.5	29.1	52.3	108.5	353.6
0.0	47.5°	0.0	0.0	0.0	3.9	5.8	15.5	28.1	51.3	109.5	488.2
0.0	50°	0.0	0.0	0.0	4.8	6.8	15.5	29.1	49.4	120.1	750.7
0.0	52.5°	0.0	0.0	0.0	3.9	5.8	17.4	32.0	48.4	130.8	976.4
0.0	55°	0.0	0.0	0.0	1.0	2.9	22.3	34.9	48.4	147.2	1032.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	25.2	39.7	51.3	174.4	1010.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	25.2	40.7	51.3	176.3	990.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	25.2	44.6	57.2	189.9	882.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	21.3	53.3	71.7	197.6	693.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	17.4	63.0	78.5	203.4	552.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	16.5	64.9	79.4	206.3	439.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	17.4	63.9	85.2	216.0	357.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	19.4	58.1	94.0	216.0	316.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	20.3	54.2	105.6	196.6	274.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	19.4	53.3	123.0	175.3	225.7
0.0	80°	1.9	2.9	2.9	1.9	1.9	16.5	52.3	125.0	149.2	155.0
1.0	82.5°	5.8	7.7	6.8	4.8	4.8	14.5	46.5	104.6	77.5	66.8
5.8	85°	10.7	12.6	12.6	10.7	10.7	13.6	29.1	37.8	26.2	21.3
10.7	87.5°	14.5	16.5	16.5	14.5	14.5	13.6	12.6	11.6	10.7	10.7
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

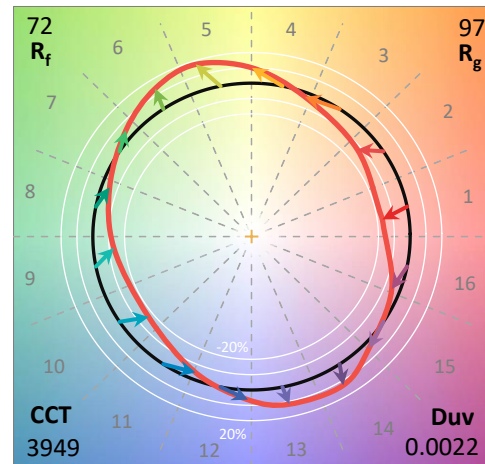
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

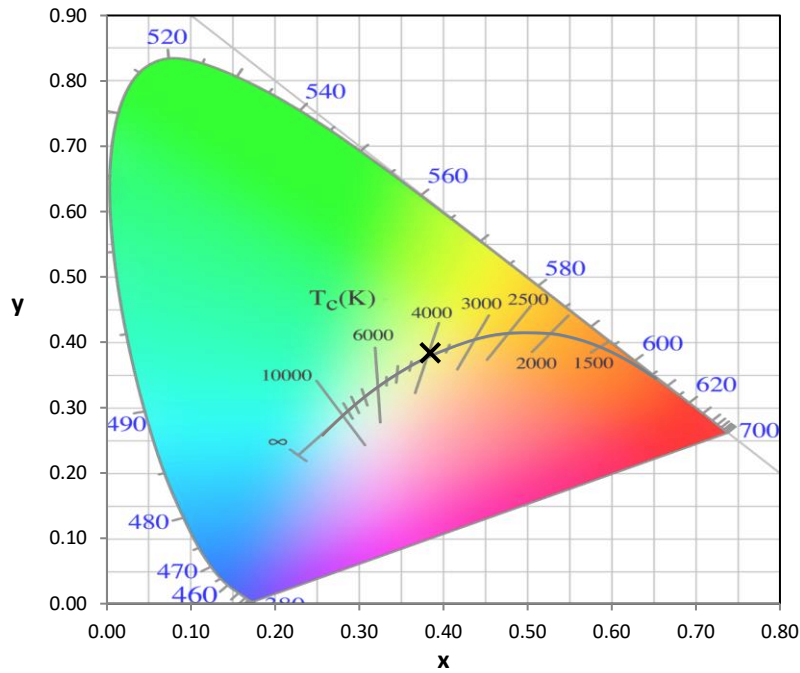
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

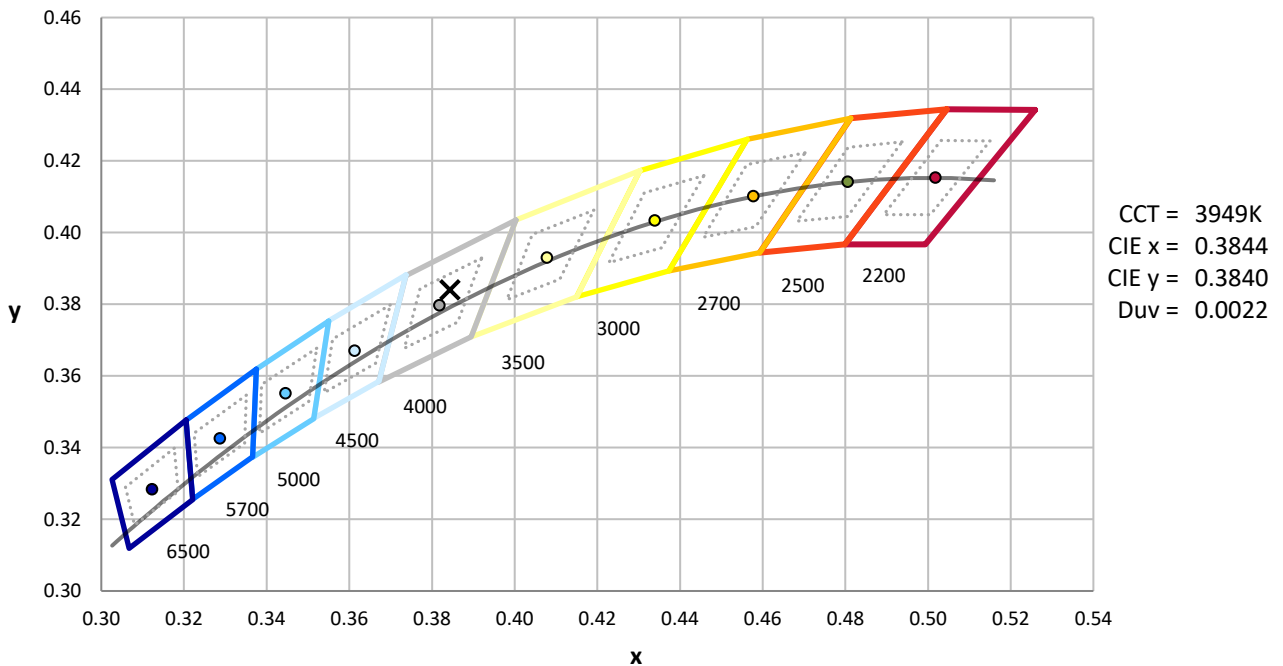
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



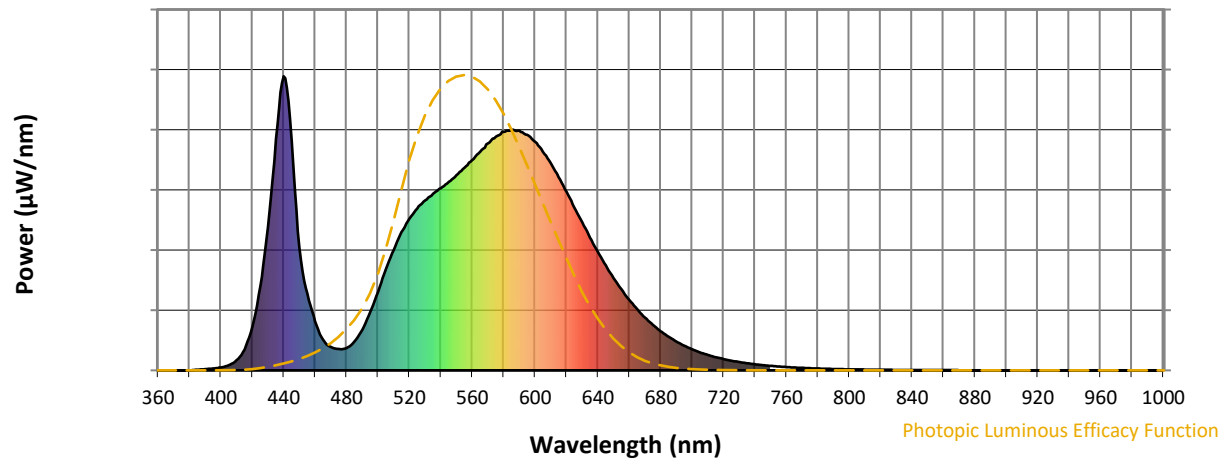
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



CCT = 3949K
 CIE x = 0.3844
 CIE y = 0.3840
 Duv = 0.0022

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

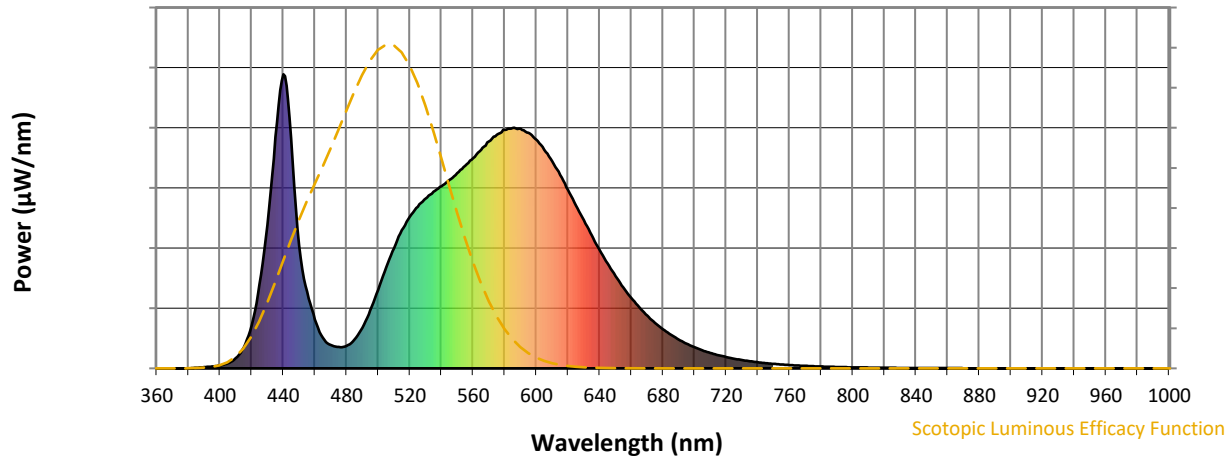


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



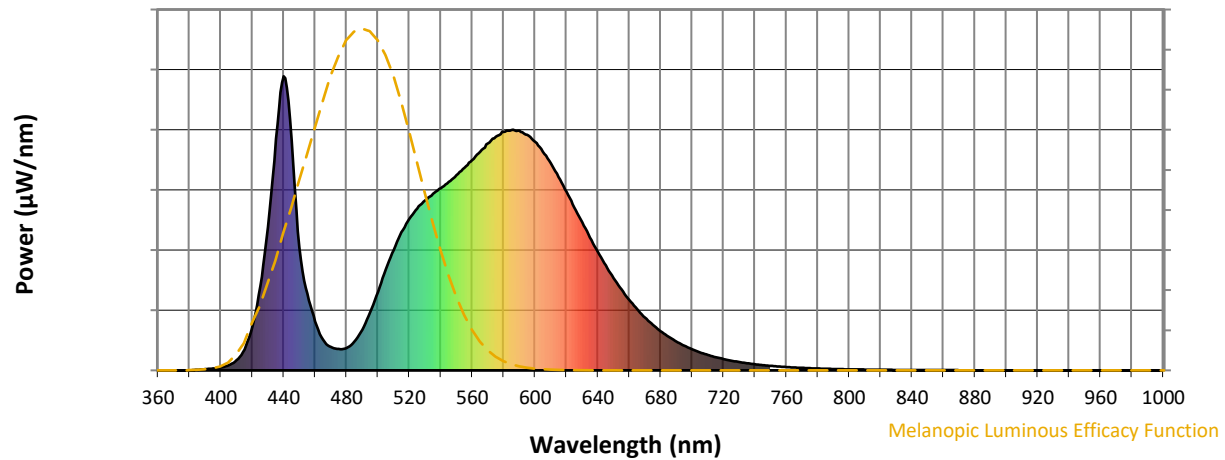
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

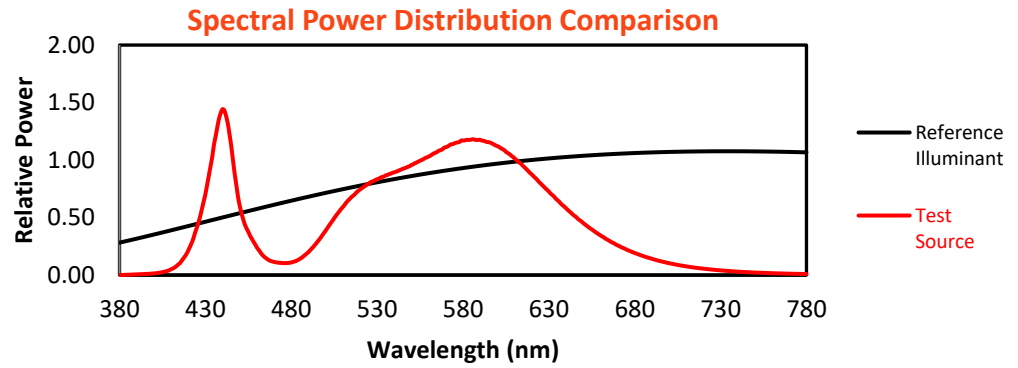
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

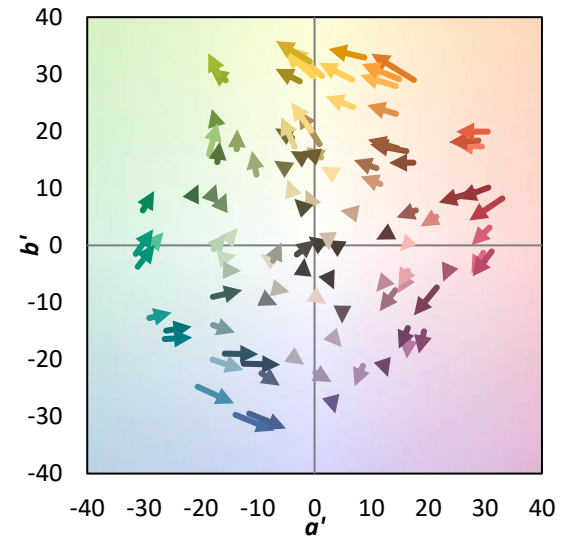
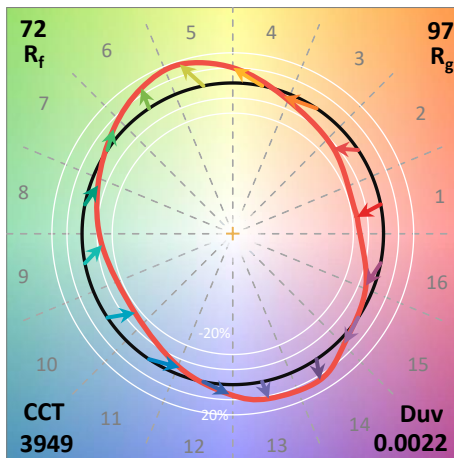
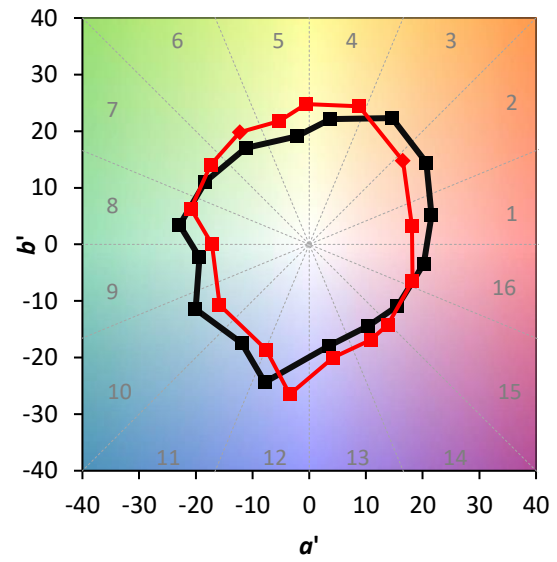
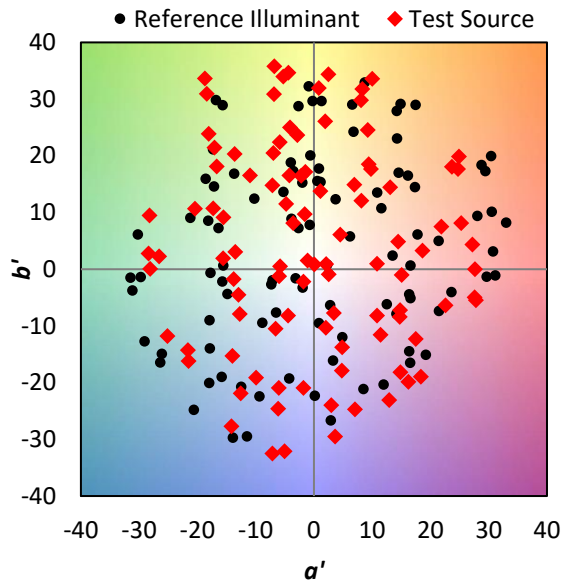
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 $CIE R_a = 70.7$
 $R_g = -36.7$

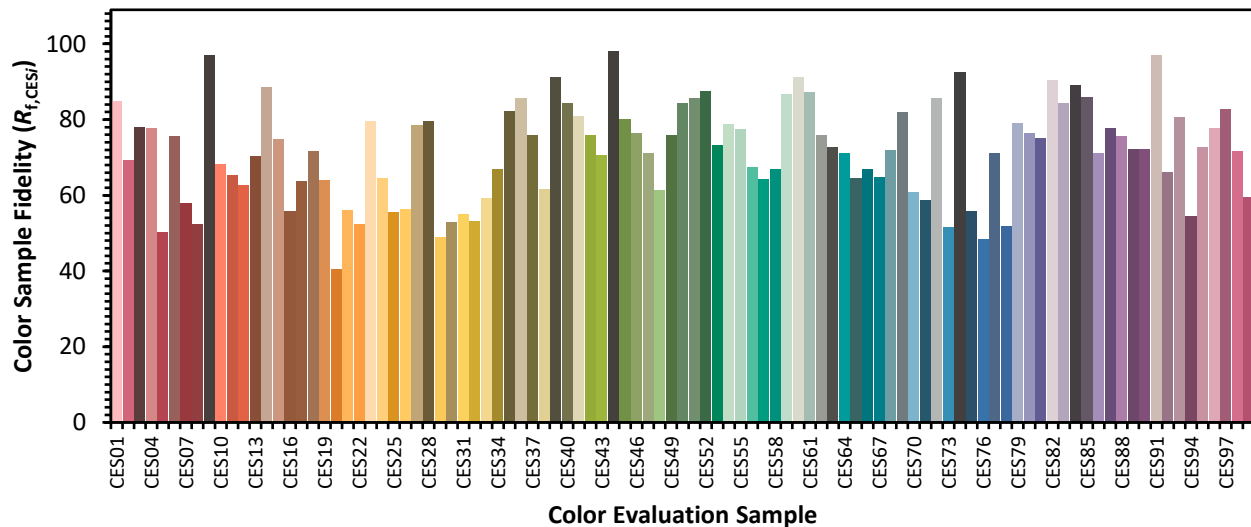


Color Vector Graphics

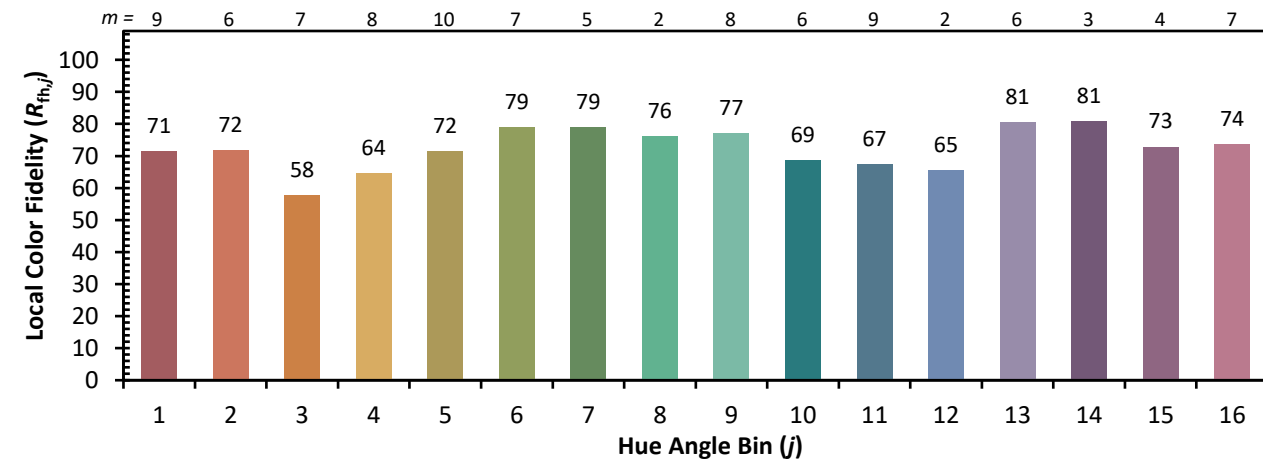
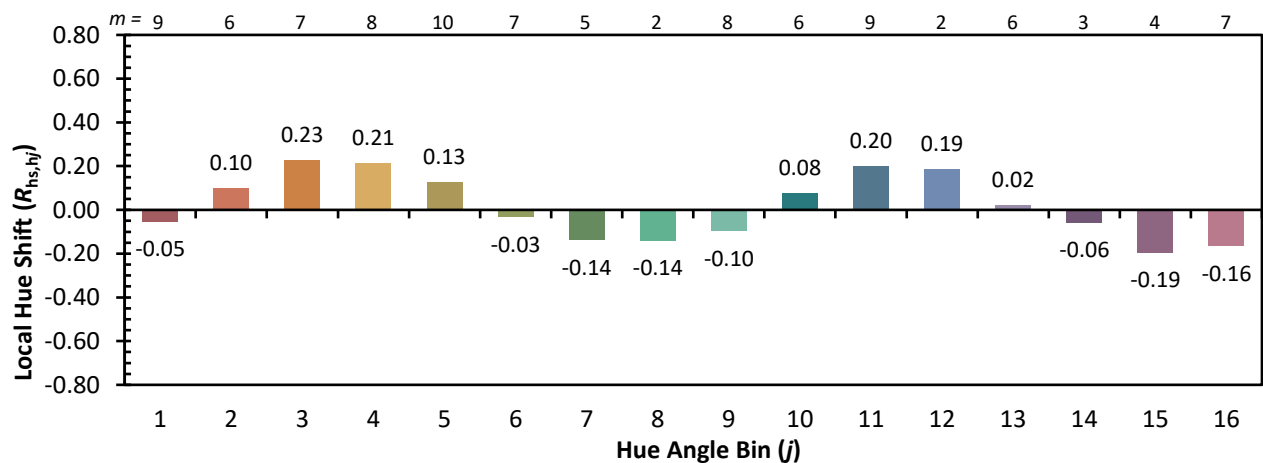
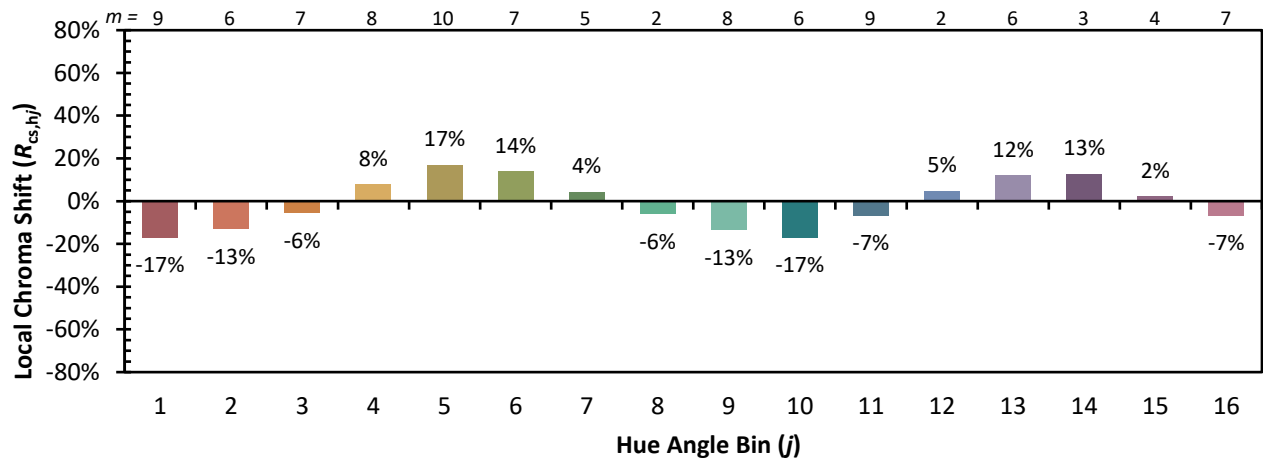


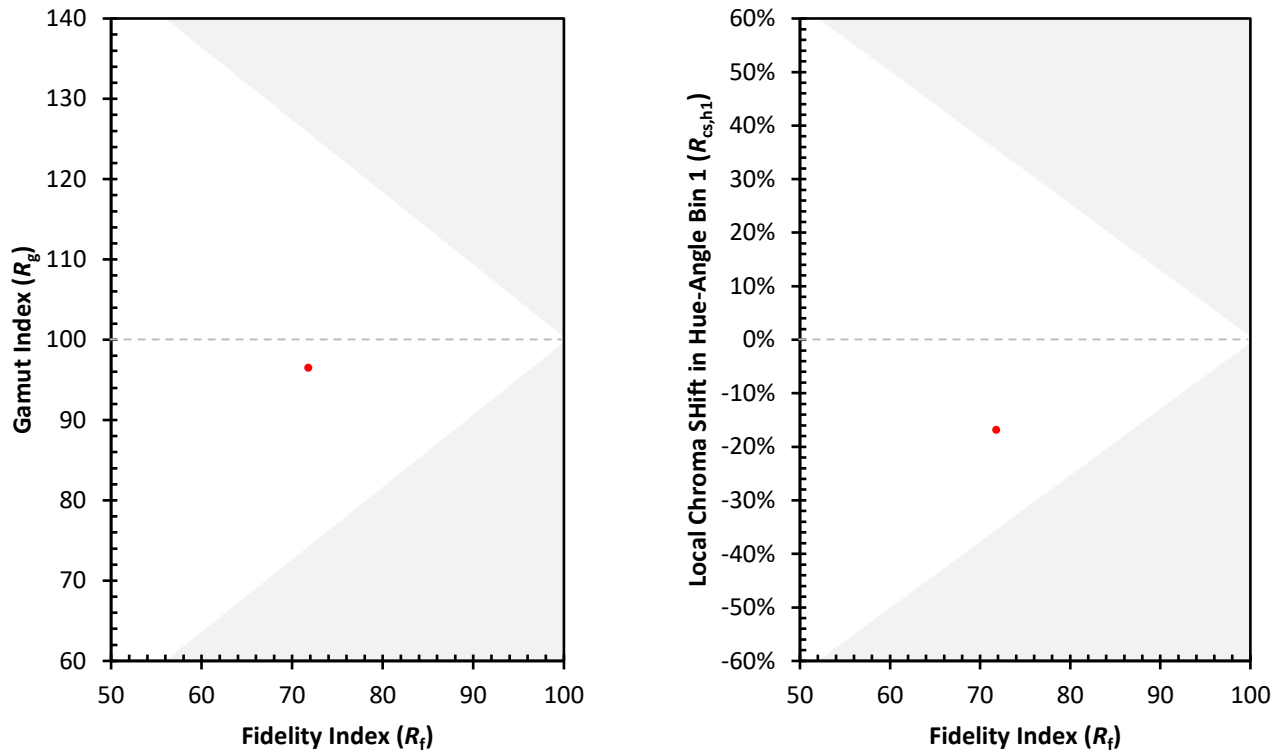
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)