

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: P1049579

Luminaire Tested: **GALN-SA3C-730-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049579
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15025.9 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 140.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

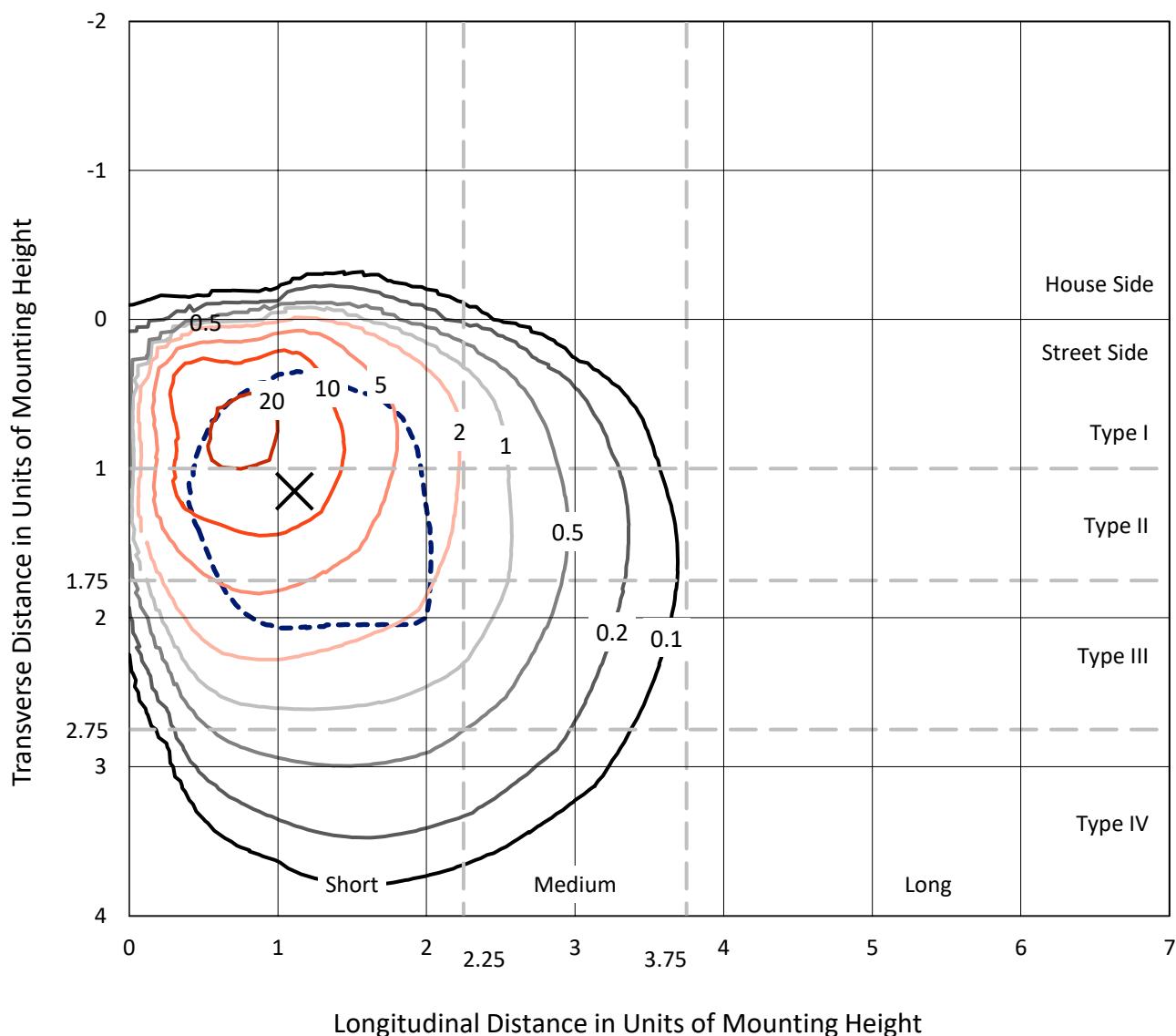
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

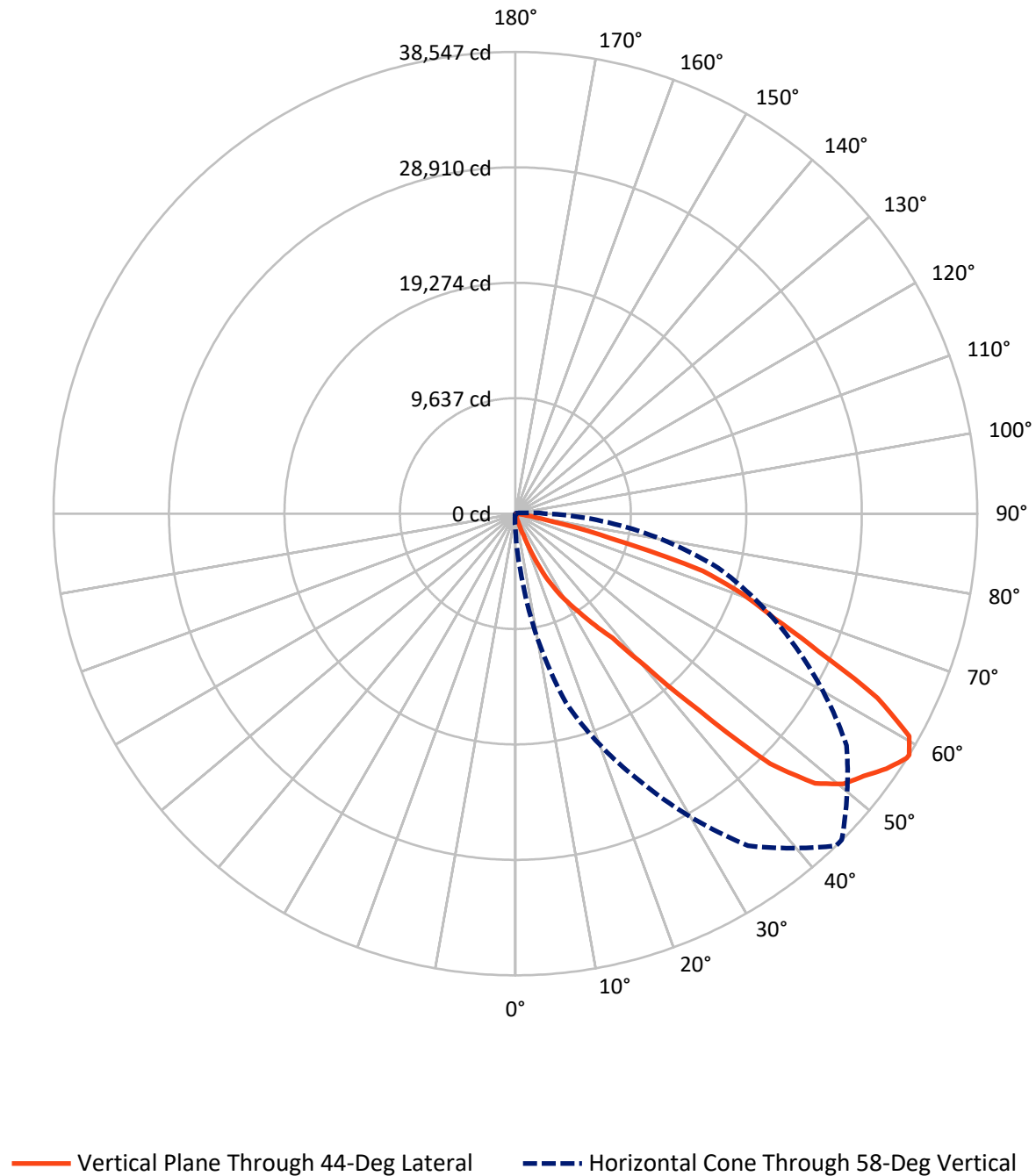


Based on 20 foot mounting height. Maximum calculated value = 26.2 fc

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	102.6	0.0	102.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14923.3	0.0	14923.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	15025.9	0.0	15025.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.0
10°-20°	33.0	0.2
20°-30°	356.0	2.4
30°-40°	1052.7	7.0
40°-50°	3137.7	20.9
50°-60°	4978.7	33.1
60°-70°	4152.8	27.6
70°-80°	1280.8	8.5
80°-90°	28.4	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°	15025.9	100.0
0°-180°	15025.9	100.0



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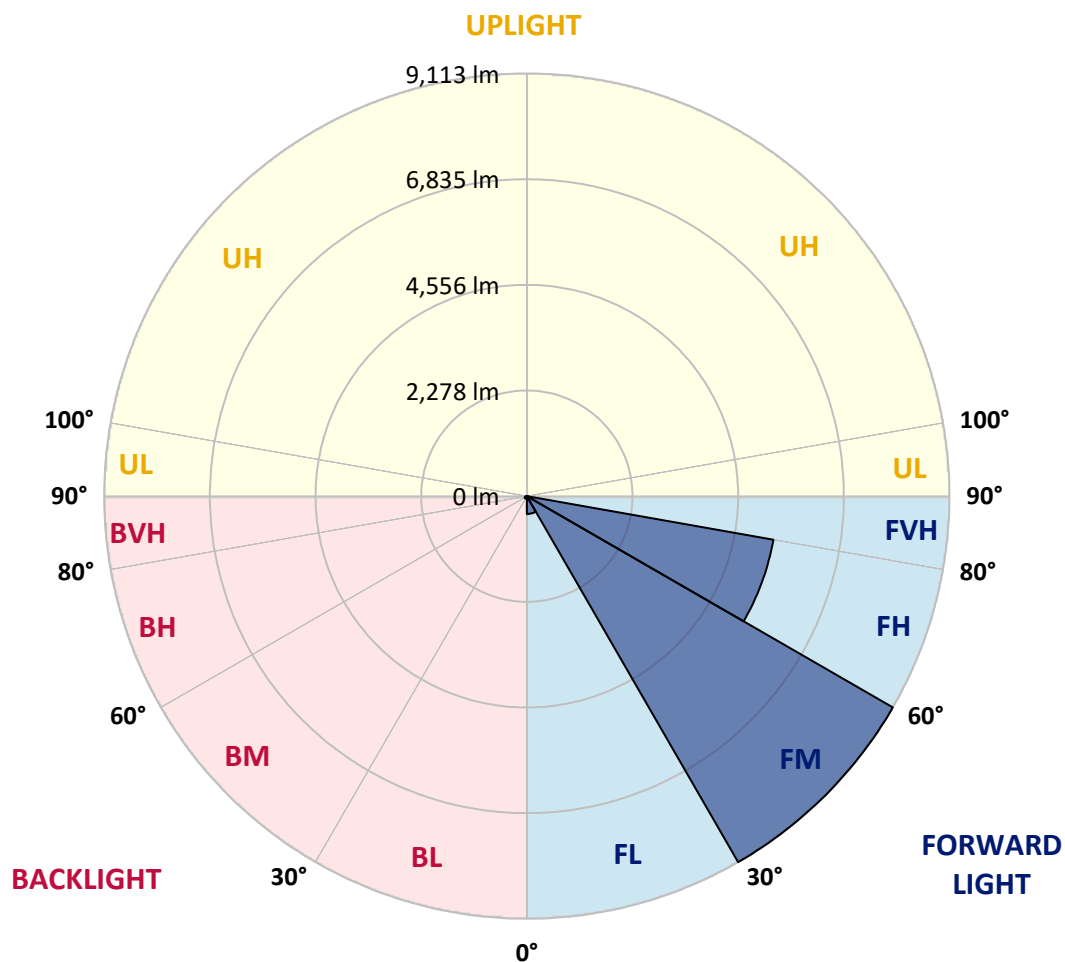
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	384.8	2.6			
FM	(30°-60°)	9112.9	60.6			
FH	(60°-80°)	5398.6	35.9			G3/7500
FVH	(80°-90°)	27.1	0.2			G1/100
BL	(0°-30°)	10.0	0.1	B0/110		
BM	(30°-60°)	56.2	0.4	B0/220		
BH	(60°-80°)	35.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
2.5°	85.1	85.1	81.7	77.2	72.6	68.1	67.0	64.7	63.6	62.4
5°	88.5	88.5	87.4	84.0	79.5	76.1	76.1	72.6	70.4	68.1
7.5°	90.8	91.9	94.2	93.1	90.8	87.4	87.4	85.1	81.7	76.1
10°	94.2	97.6	102.2	104.4	105.6	105.6	104.4	103.3	97.6	89.7
12.5°	97.6	104.4	115.8	127.1	133.9	143.0	141.9	139.6	124.9	107.8
15°	104.4	114.6	138.5	171.4	222.5	254.3	266.7	255.4	206.6	145.3
17.5°	112.4	129.4	200.9	358.7	588.0	696.9	762.8	709.4	469.9	275.8
20°	120.3	157.8	373.4	929.6	1525.5	1882.0	1980.7	1826.3	1172.5	525.5
22.5°	133.9	221.3	757.1	1921.7	3287.2	3821.8	3922.8	3429.1	2214.5	1037.5
25°	162.3	321.2	1305.3	3131.7	4905.8	5808.2	5766.2	5119.2	3592.5	1657.2
27.5°	203.2	467.7	1973.9	4449.5	6456.3	7252.0	7347.4	6547.1	4788.9	2437.0
30°	262.2	648.1	2691.3	5505.1	7699.3	8559.6	8575.5	7748.1	5859.3	3121.5
32.5°	319.0	818.4	3319.0	6525.6	8924.0	9867.3	9937.6	8919.5	6658.4	3834.3
35°	362.1	929.6	3954.6	7422.3	10159.0	11458.6	11454.1	10245.2	7605.0	4471.1
37.5°	365.5	1040.9	4530.1	8339.4	11723.1	13178.3	13322.4	11989.9	8749.2	5258.8
40°	357.6	1165.7	5258.8	9769.6	14541.5	16774.2	16901.4	15221.4	11044.3	6607.3
42.5°	366.6	1382.5	6441.6	12411.0	19221.5	22428.1	22673.2	20907.1	15263.4	9358.7
45°	414.3	1790.0	8919.5	16829.8	25892.3	29801.5	29719.8	27176.1	20172.7	13547.2
47.5°	572.1	2787.8	12592.6	21130.7	30155.7	33637.0	33707.4	30598.4	23037.6	16767.4
50°	879.7	4265.6	15678.9	23404.2	31988.8	35481.5	35415.7	31823.1	24126.1	18353.1
52.5°	1144.2	5334.9	17227.1	24202.2	32223.8	36393.0	36388.4	32145.5	24295.3	18489.3
55°	1210.0	5415.5	17239.6	24245.3	32750.5	37585.9	37735.8	32938.9	24514.3	17894.5
57.5°	1183.9	4794.6	16520.0	24495.0	33688.1	38508.7	38516.7	33707.4	25070.5	17530.2
58°	1161.2	4697.0	16374.7	24636.9	33849.2	38547.3	38528.0	33742.5	25523.4	17516.6
60°	1034.1	4078.3	15808.3	24999.0	33609.7	37755.1	37574.6	32974.1	25456.5	17377.0
62.5°	812.7	3181.6	15250.9	24580.2	31042.2	33919.6	33994.5	29193.1	23206.7	16563.1
65°	647.0	2371.2	14088.6	21560.9	25562.0	27854.9	28134.1	23739.1	19370.2	14025.1
67.5°	515.3	1714.0	11818.5	17165.8	20227.1	23247.6	23450.8	19930.9	15006.9	10745.8
70°	418.8	1158.9	8157.8	12554.0	16683.4	20079.6	20092.1	16557.4	11201.0	7040.9
72.5°	371.2	802.5	4735.6	9155.6	13527.9	16362.2	16031.9	13436.0	8608.5	4170.3
75°	321.2	532.4	2322.4	5597.1	8202.1	8257.7	8383.7	6232.7	4303.1	1983.0
77.5°	264.5	378.0	914.9	1529.0	2459.7	3148.7	3265.6	2474.5	1431.3	488.1
80°	181.6	179.3	246.3	468.8	703.8	882.0	822.9	636.8	374.6	187.3
82.5°	78.3	85.1	111.2	133.9	109.0	105.6	101.0	64.7	49.9	38.6
85°	25.0	22.7	23.8	23.8	19.3	14.8	14.8	6.8	0.0	0.0
87.5°	12.5	10.2	10.2	9.1	5.7	2.3	1.1	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°
65.8	0°	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
61.3	2.5°	60.2	60.2	57.9	55.6	54.5	52.2	51.1	49.9	48.8	47.7
65.8	5°	63.6	62.4	59.0	55.6	52.2	48.8	46.5	44.3	42.0	40.9
72.6	7.5°	69.2	67.0	60.2	54.5	49.9	45.4	43.1	39.7	37.5	34.1
80.6	10°	76.1	71.5	62.4	55.6	48.8	43.1	39.7	36.3	32.9	28.4
91.9	12.5°	85.1	77.2	65.8	54.5	46.5	39.7	36.3	31.8	28.4	25.0
106.7	15°	93.1	82.9	67.0	54.5	44.3	36.3	31.8	27.2	23.8	19.3
133.9	17.5°	104.4	87.4	65.8	51.1	40.9	31.8	27.2	23.8	18.2	11.4
198.6	20°	123.7	90.8	63.6	47.7	35.2	26.1	20.4	15.9	7.9	2.3
298.5	22.5°	154.4	99.9	61.3	43.1	30.6	20.4	13.6	5.7	0.0	0.0
454.0	25°	213.4	115.8	61.3	40.9	27.2	14.8	4.5	0.0	0.0	0.0
644.7	27.5°	283.8	137.3	61.3	35.2	21.6	7.9	0.0	0.0	0.0	0.0
878.6	30°	355.3	161.2	61.3	30.6	17.0	1.1	0.0	0.0	0.0	0.0
1081.7	32.5°	423.4	181.6	62.4	26.1	11.4	0.0	0.0	0.0	0.0	0.0
1363.2	35°	492.6	185.0	61.3	22.7	6.8	0.0	0.0	0.0	0.0	0.0
1708.3	37.5°	581.2	178.2	57.9	20.4	3.4	0.0	0.0	0.0	0.0	0.0
2247.5	40°	715.1	181.6	54.5	19.3	1.1	0.0	0.0	0.0	0.0	0.0
3208.9	42.5°	962.5	196.4	49.9	19.3	0.0	0.0	0.0	0.0	0.0	0.0
5111.3	45°	1664.0	263.3	45.4	20.4	0.0	0.0	0.0	0.0	0.0	0.0
7673.1	47.5°	2752.6	473.3	44.3	20.4	0.0	0.0	0.0	0.0	0.0	0.0
9243.0	50°	3513.1	595.9	46.5	21.6	0.0	0.0	0.0	0.0	0.0	0.0
9439.3	52.5°	3507.4	664.0	48.8	22.7	4.5	0.0	0.0	0.0	0.0	0.0
8700.4	55°	3118.1	676.5	52.2	25.0	14.8	0.0	0.0	0.0	0.0	0.0
7476.8	57.5°	2606.1	617.5	60.2	30.6	27.2	0.0	0.0	0.0	0.0	0.0
7284.9	58°	2515.3	590.2	62.4	31.8	29.5	0.0	0.0	0.0	0.0	0.0
6319.0	60°	2061.3	481.3	79.5	39.7	39.7	0.0	0.0	0.0	0.0	0.0
5180.5	62.5°	1423.4	420.0	90.8	51.1	40.9	0.0	0.0	0.0	0.0	0.0
3819.5	65°	1006.8	379.1	98.8	54.5	32.9	0.0	0.0	0.0	0.0	0.0
2714.0	67.5°	752.6	349.6	109.0	55.6	17.0	0.0	0.0	0.0	0.0	0.0
1702.6	70°	576.6	328.0	133.9	59.0	4.5	0.0	0.0	0.0	0.0	0.0
1014.8	72.5°	469.9	303.1	162.3	61.3	0.0	0.0	0.0	0.0	0.0	0.0
608.4	75°	389.3	273.6	156.6	67.0	0.0	0.0	0.0	0.0	0.0	0.0
324.6	77.5°	258.8	212.3	143.0	67.0	0.0	0.0	0.0	0.0	0.0	0.0
115.8	80°	90.8	84.0	111.2	59.0	0.0	0.0	0.0	0.0	0.0	0.0
23.8	82.5°	13.6	11.4	15.9	20.4	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°
65.8	0°	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
46.5	2.5°	46.5	46.5	45.4	46.5	46.5	48.8	54.5	62.4	71.5	74.9
39.7	5°	38.6	37.5	36.3	36.3	36.3	39.7	44.3	53.3	63.6	68.1
32.9	7.5°	31.8	30.6	29.5	28.4	28.4	30.6	36.3	46.5	56.8	61.3
27.2	10°	26.1	23.8	22.7	21.6	21.6	23.8	29.5	39.7	51.1	55.6
22.7	12.5°	21.6	18.2	15.9	14.8	13.6	17.0	22.7	31.8	44.3	49.9
17.0	15°	14.8	11.4	7.9	6.8	5.7	9.1	14.8	25.0	37.5	44.3
9.1	17.5°	7.9	3.4	1.1	0.0	0.0	2.3	6.8	18.2	30.6	36.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	22.7	28.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	13.6	19.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	10.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
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	3.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.1
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°
65.8	0°	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
78.3	2.5°	80.6	79.5	77.2	74.9	74.9	74.9	78.3	81.7	85.1	85.1
70.4	5°	74.9	74.9	73.8	71.5	71.5	72.6	77.2	82.9	87.4	88.5
64.7	7.5°	69.2	71.5	69.2	68.1	69.2	70.4	74.9	81.7	88.5	90.8
60.2	10°	65.8	67.0	67.0	65.8	65.8	68.1	72.6	81.7	90.8	94.2
54.5	12.5°	61.3	63.6	62.4	62.4	62.4	64.7	70.4	80.6	93.1	97.6
48.8	15°	56.8	60.2	60.2	59.0	59.0	60.2	68.1	79.5	96.5	104.4
42.0	17.5°	52.2	55.6	56.8	54.5	54.5	56.8	64.7	79.5	98.8	112.4
34.1	20°	43.1	48.8	52.2	48.8	48.8	51.1	59.0	74.9	99.9	120.3
25.0	22.5°	34.1	39.7	44.3	43.1	43.1	44.3	54.5	71.5	101.0	133.9
14.8	25°	25.0	30.6	34.1	36.3	36.3	39.7	49.9	69.2	105.6	162.3
6.8	27.5°	14.8	21.6	26.1	28.4	29.5	34.1	46.5	67.0	113.5	203.2
0.0	30°	6.8	12.5	18.2	22.7	22.7	30.6	43.1	64.7	123.7	262.2
0.0	32.5°	0.0	5.7	9.1	15.9	17.0	25.0	39.7	62.4	138.5	319.0
0.0	35°	0.0	0.0	4.5	12.5	12.5	20.4	36.3	60.2	161.2	362.1
0.0	37.5°	0.0	0.0	0.0	9.1	10.2	18.2	35.2	59.0	165.7	365.5
0.0	40°	0.0	0.0	0.0	6.8	7.9	17.0	35.2	60.2	149.8	357.6
0.0	42.5°	0.0	0.0	0.0	4.5	5.7	17.0	35.2	62.4	135.1	366.6
0.0	45°	0.0	0.0	0.0	3.4	4.5	18.2	34.1	61.3	127.1	414.3
0.0	47.5°	0.0	0.0	0.0	4.5	6.8	18.2	32.9	60.2	128.3	572.1
0.0	50°	0.0	0.0	0.0	5.7	7.9	18.2	34.1	57.9	140.8	879.7
0.0	52.5°	0.0	0.0	0.0	4.5	6.8	20.4	37.5	56.8	153.2	1144.2
0.0	55°	0.0	0.0	0.0	1.1	3.4	26.1	40.9	56.8	172.5	1210.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	29.5	46.5	60.2	204.3	1183.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	29.5	47.7	60.2	206.6	1161.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	29.5	52.2	67.0	222.5	1034.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	25.0	62.4	84.0	231.6	812.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	20.4	73.8	91.9	238.4	647.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	19.3	76.1	93.1	241.8	515.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	20.4	74.9	99.9	253.1	418.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	22.7	68.1	110.1	253.1	371.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	23.8	63.6	123.7	230.4	321.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	22.7	62.4	144.2	205.4	264.5
0.0	80°	2.3	3.4	3.4	2.3	2.3	19.3	61.3	146.4	174.8	181.6
1.1	82.5°	6.8	9.1	7.9	5.7	5.7	17.0	54.5	122.6	90.8	78.3
6.8	85°	12.5	14.8	14.8	12.5	12.5	15.9	34.1	44.3	30.6	25.0
12.5	87.5°	17.0	19.3	19.3	17.0	17.0	15.9	14.8	13.6	12.5	12.5
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

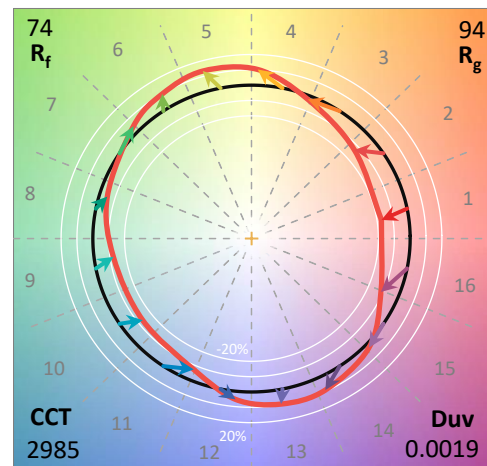
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2985
 CIE u' : 0.2504
 CIE v' : 0.5243
 Duv: 0.0019
 CIE x: 0.4408
 CIE y: 0.4101
 CIE z: 0.1491
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 55.41818
 R_f: 73.8
 R_g: 94.4

CRI (Ra): 70.8
 R1: 66.3
 R2: 80.6
 R3: 94.5
 R4: 68.2
 R5: 66.5
 R6: 74.7
 R7: 76.2
 R8: 39.6
 R9: -43.2
 R10: 57.6
 R11: 64.8
 R12: 53.5
 R13: 68.7
 R14: 97.0
 R15: 56.4



Test Conditions

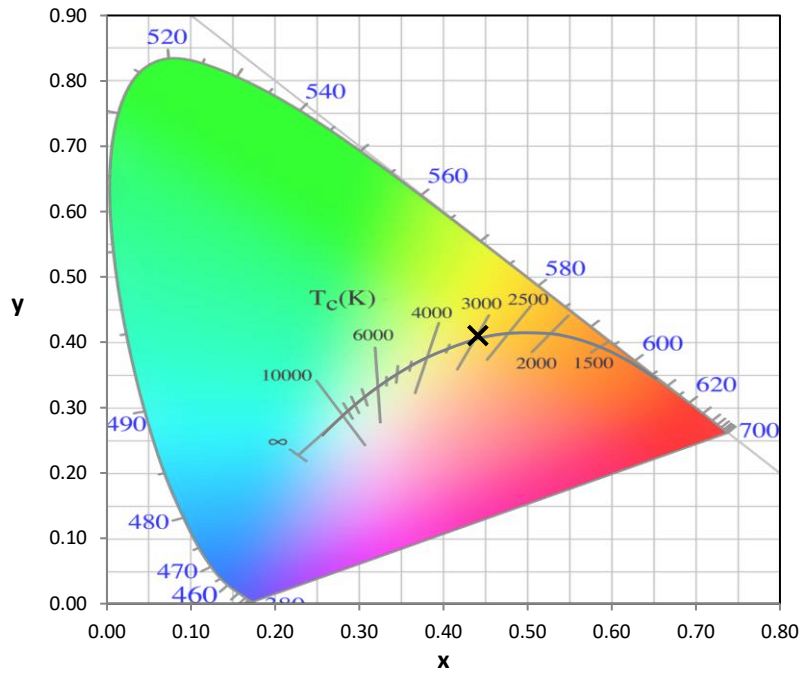
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

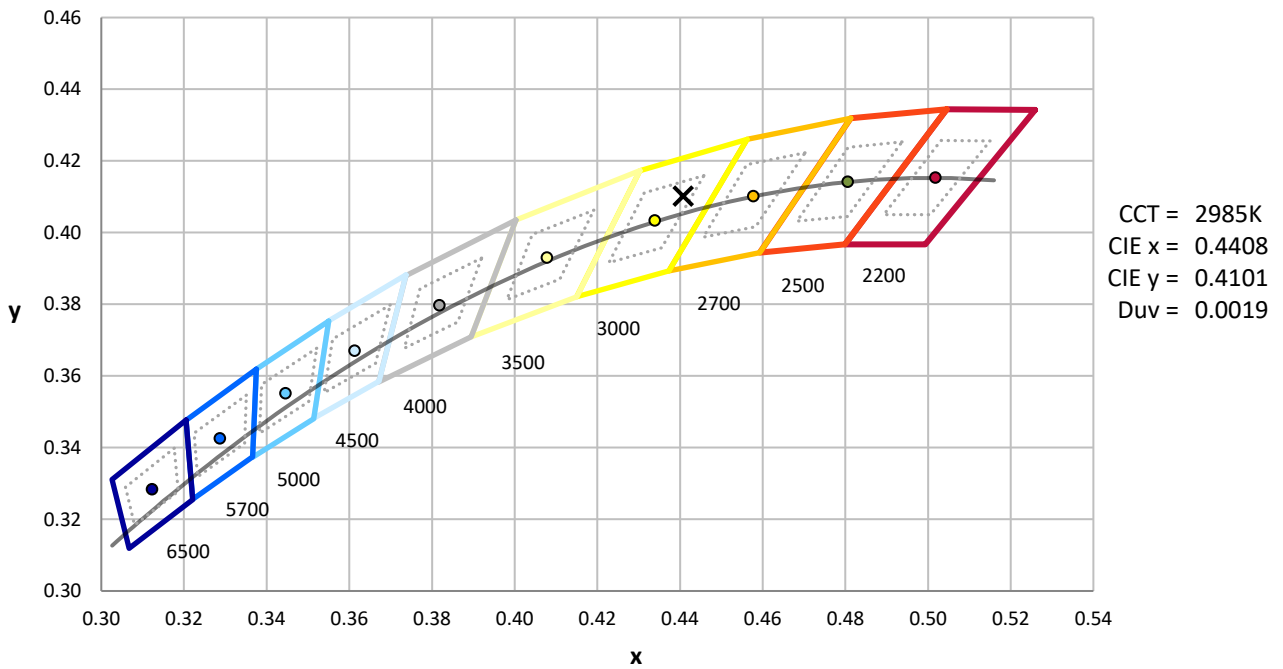
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



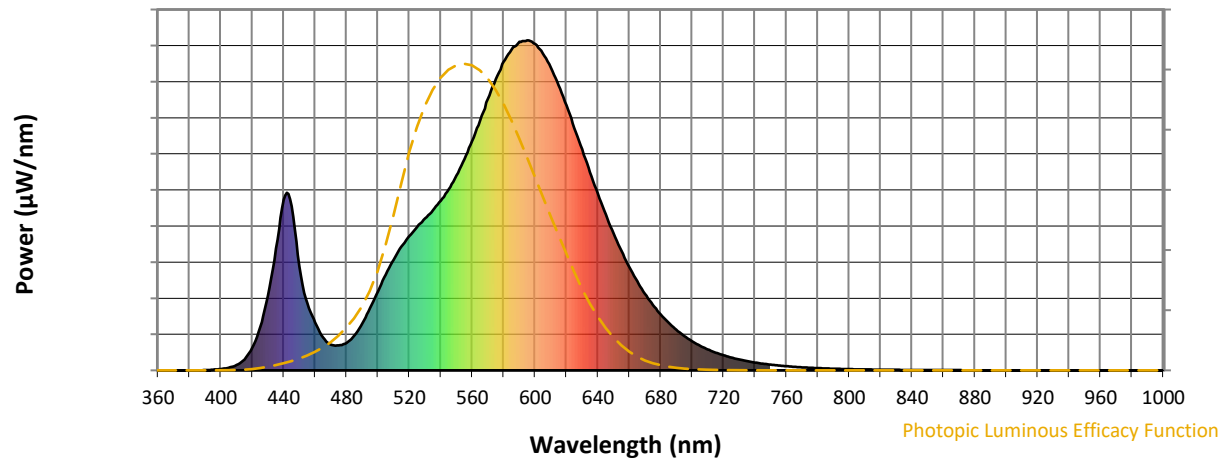
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

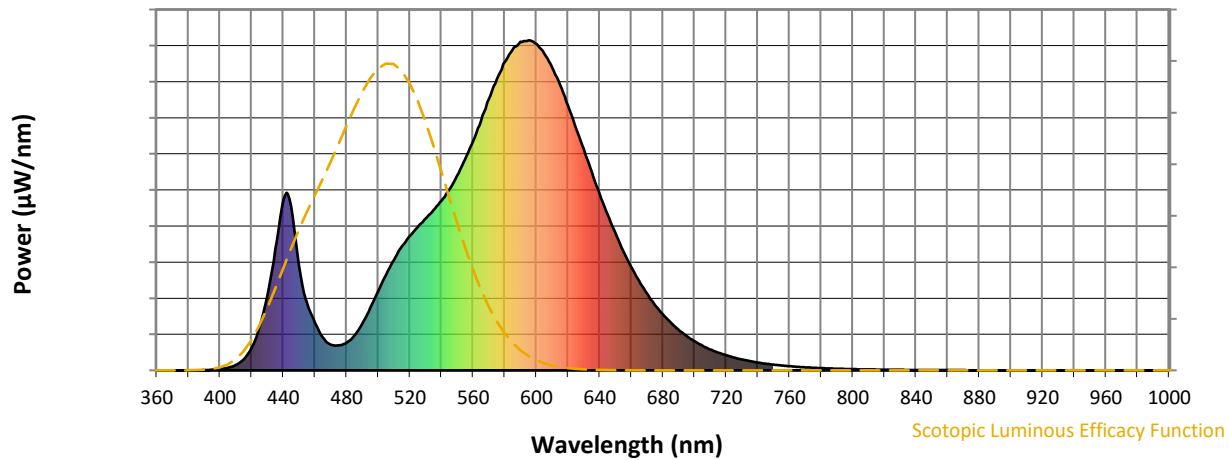


Photopic Lumens: NR

λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



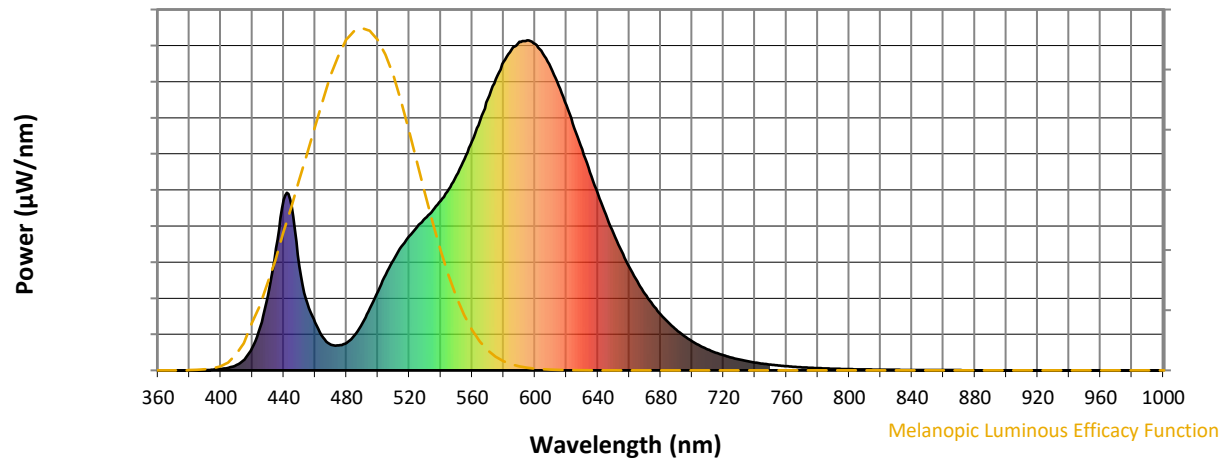
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

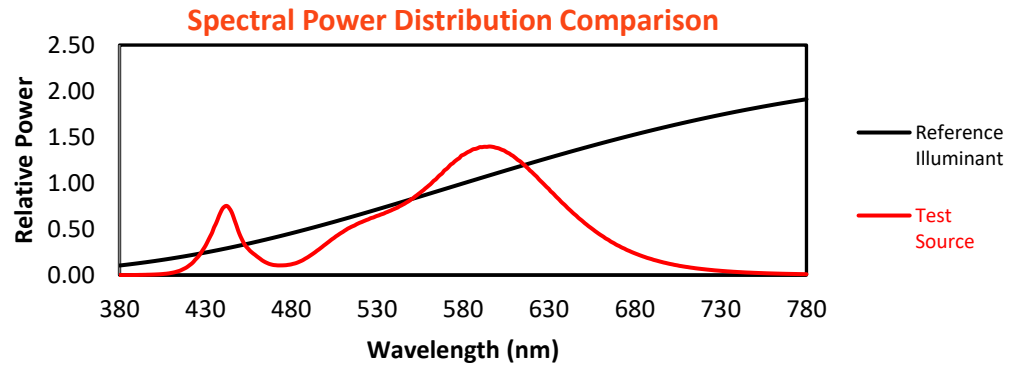
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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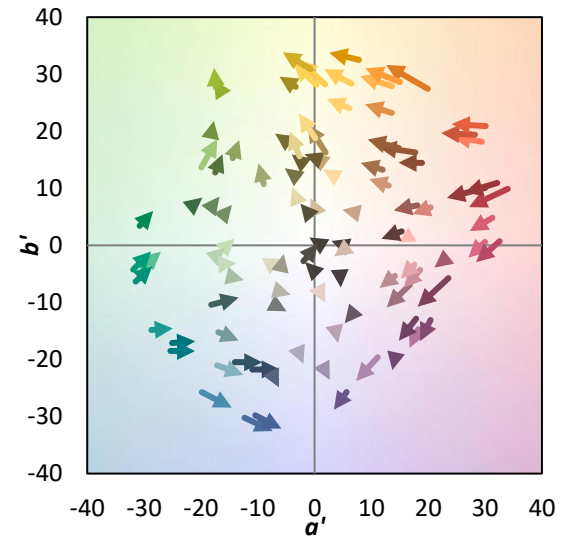
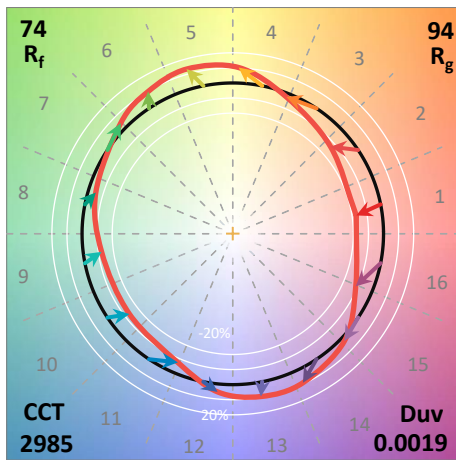
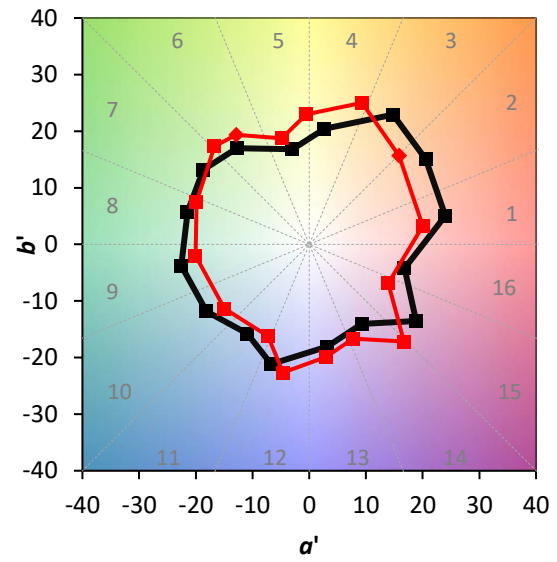
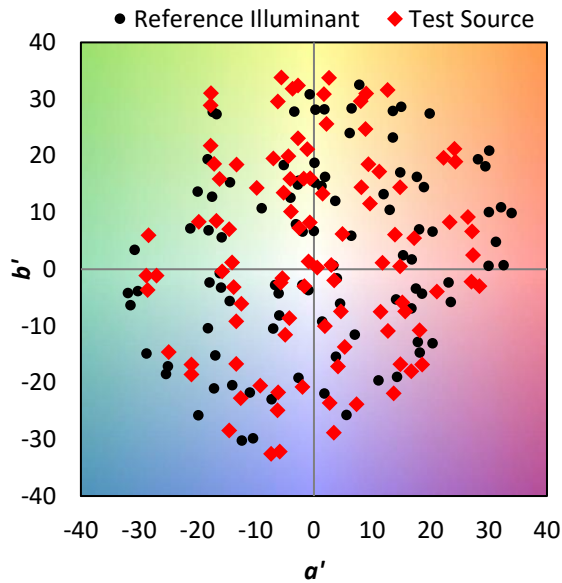
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE R_a = 70.8$
 $R_g = -43.2$

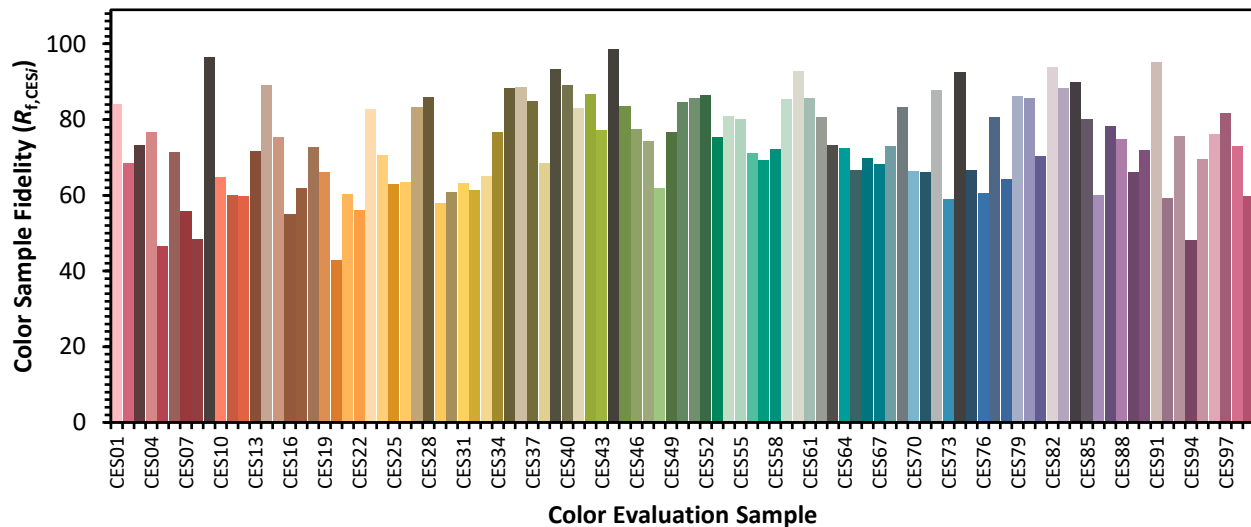


Color Vector Graphics

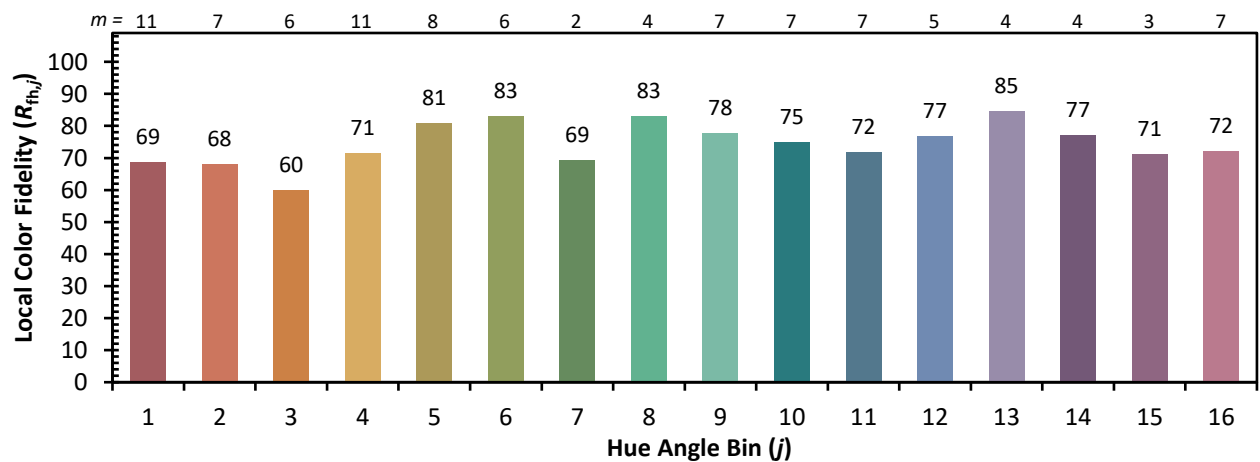
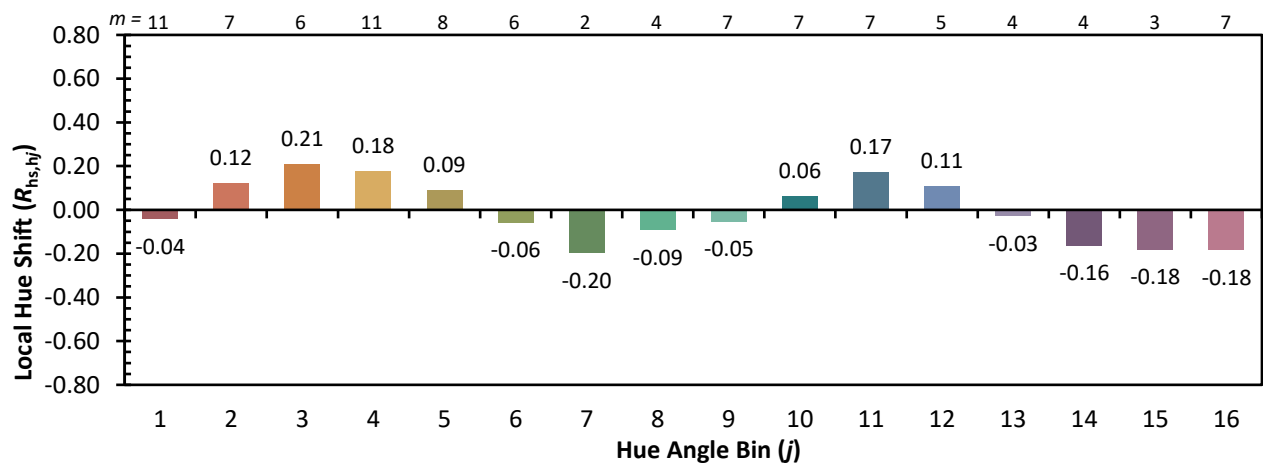
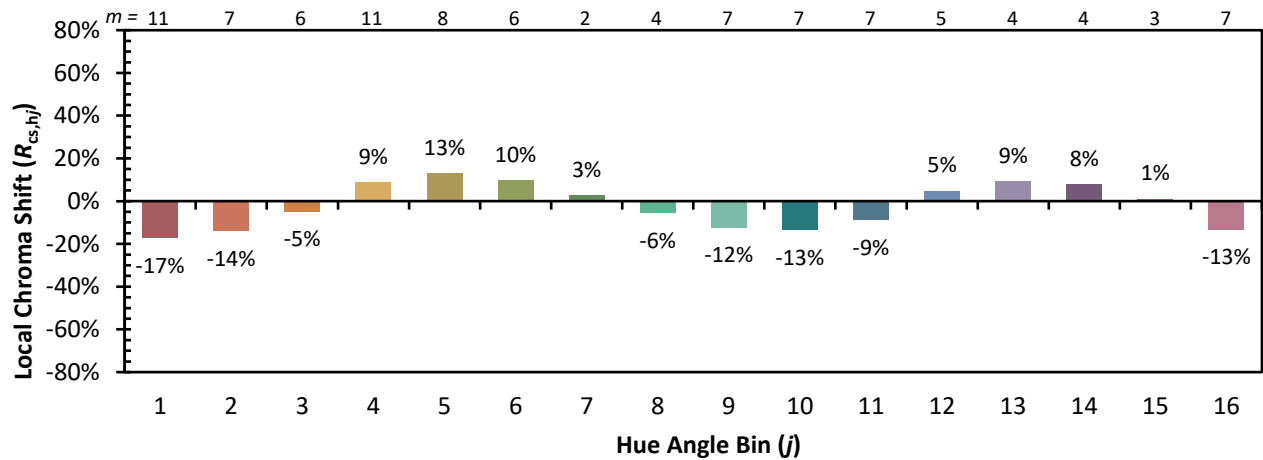


Individual Sample Fidelity Index ($R_{f,i}$)

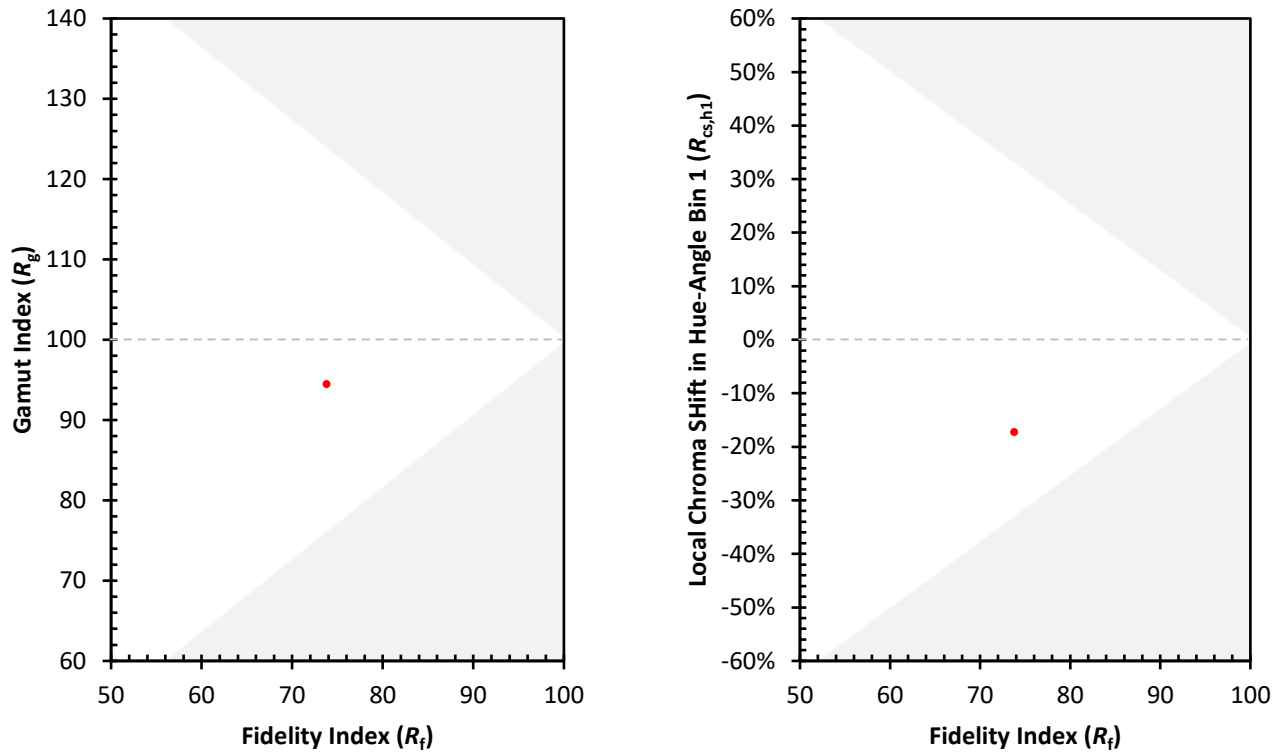
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)