

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: P1049834

Luminaire Tested: **GALN-SA4B-840-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049834
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
80CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14977.9 lumens
Efficiency: N/A
Efficacy: 103.9 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): 144.1
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

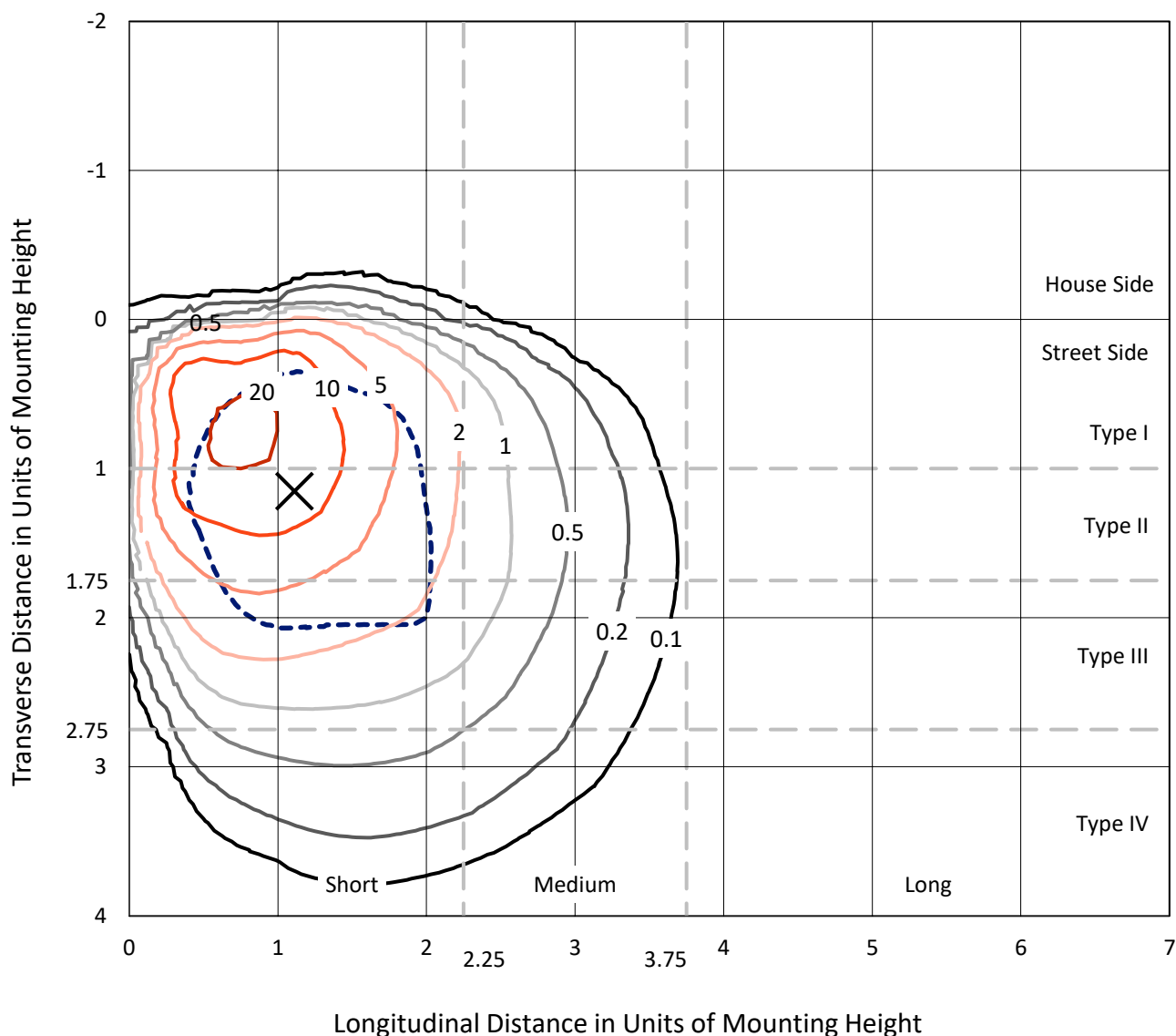
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

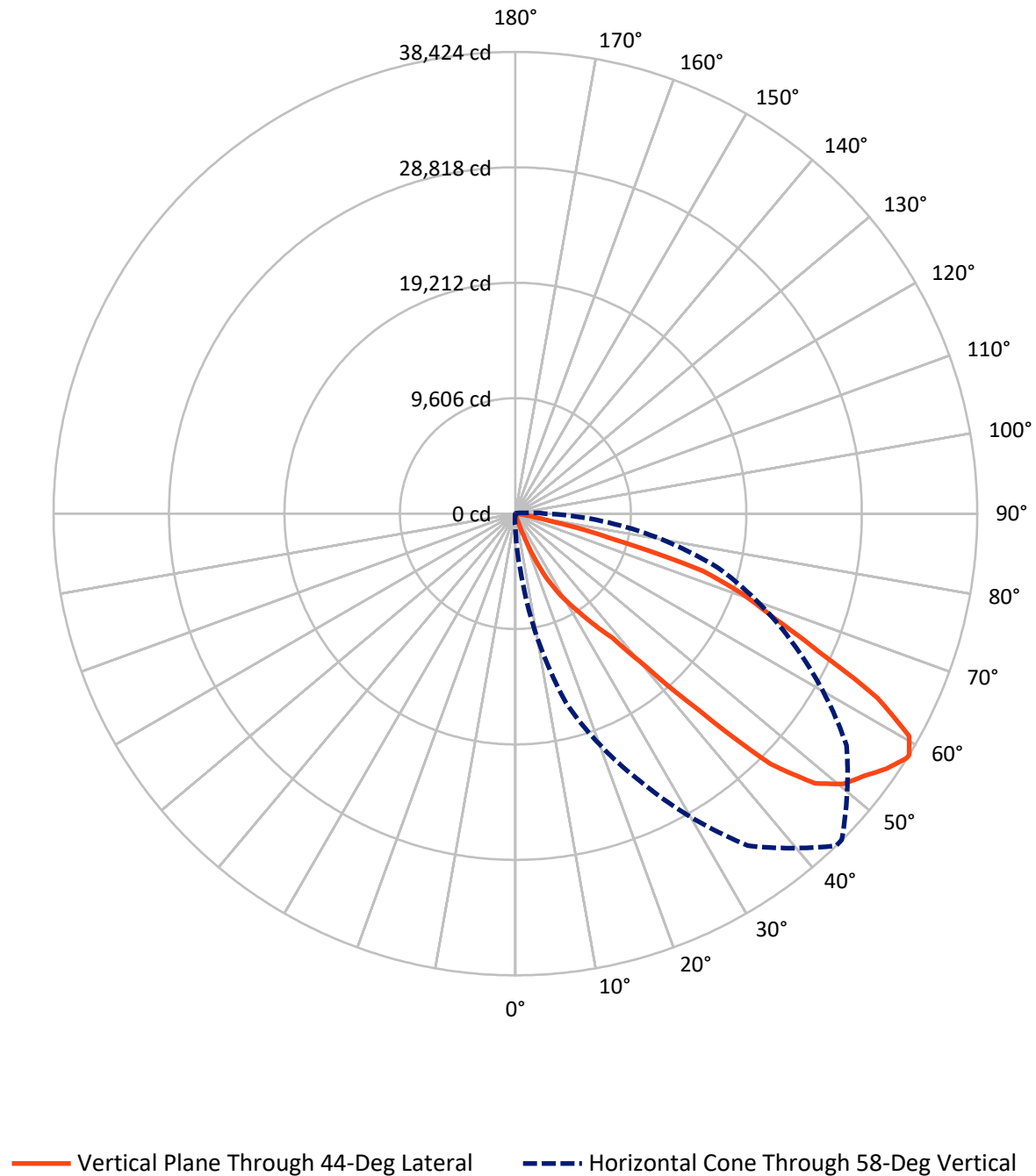


Based on 20 foot mounting height. Maximum calculated value = 26.1 fc

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	102.3	0.0	102.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14875.7	0.0	14875.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	14977.9	0.0	14977.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.0
10°-20°	32.8	0.2
20°-30°	354.8	2.4
30°-40°	1049.4	7.0
40°-50°	3127.6	20.9
50°-60°	4962.8	33.1
60°-70°	4139.6	27.6
70°-80°	1276.7	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°	14977.9	100.0
0°-180°	14977.9	100.0



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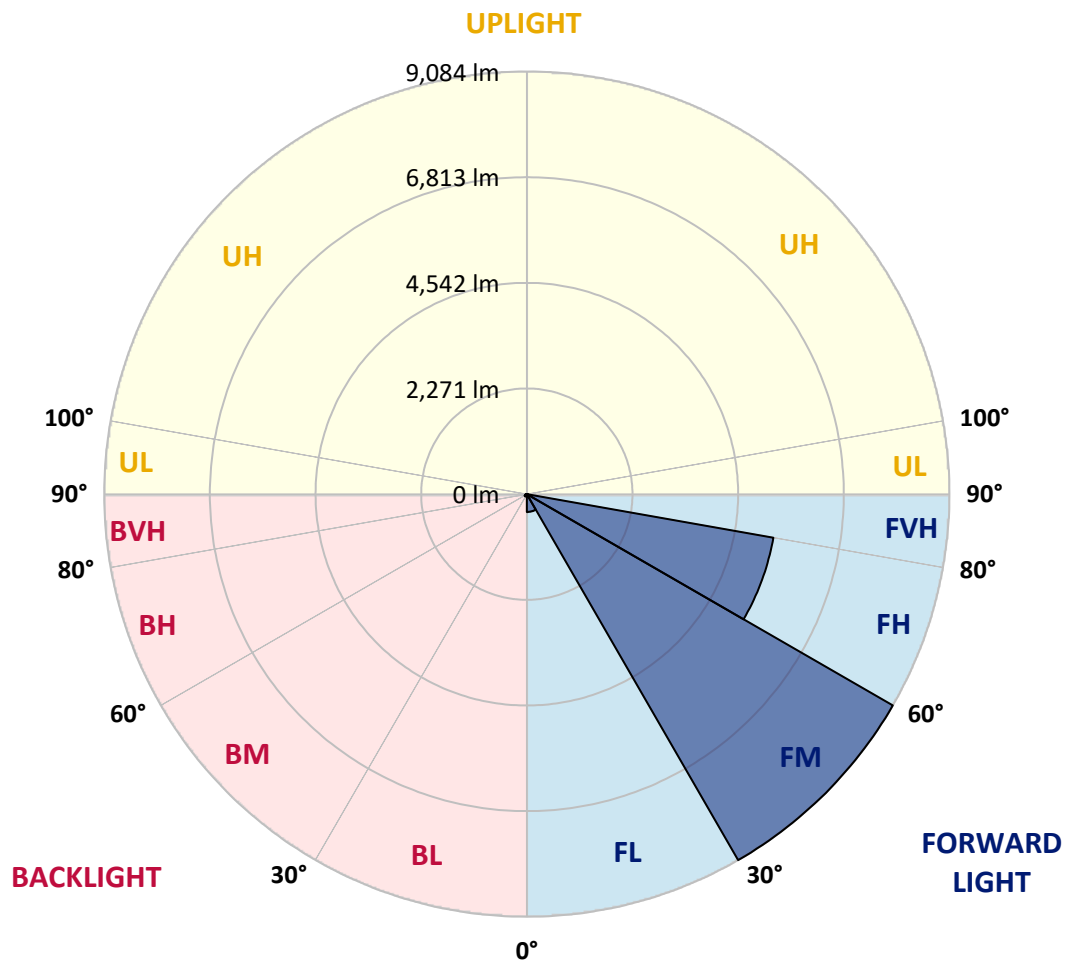
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	383.5	2.6			
FM	(30°-60°)	9083.8	60.6			
FH	(60°-80°)	5381.4	35.9			G3/7500
FVH	(80°-90°)	27.0	0.2			G1/100
BL	(0°-30°)	10.0	0.1	B0/110		
BM	(30°-60°)	56.0	0.4	B0/220		
BH	(60°-80°)	34.9	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°	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
2.5°	84.9	84.9	81.5	76.9	72.4	67.9	66.8	64.5	63.4	62.2
5°	88.3	88.3	87.1	83.7	79.2	75.8	75.8	72.4	70.2	67.9
7.5°	90.5	91.6	93.9	92.8	90.5	87.1	87.1	84.9	81.5	75.8
10°	93.9	97.3	101.8	104.1	105.2	105.2	104.1	103.0	97.3	89.4
12.5°	97.3	104.1	115.4	126.7	133.5	142.6	141.4	139.2	124.5	107.5
15°	104.1	114.3	138.0	170.8	221.8	253.4	265.9	254.6	205.9	144.8
17.5°	112.0	129.0	200.3	357.5	586.1	694.7	760.3	707.2	468.4	274.9
20°	119.9	157.3	372.2	926.7	1520.7	1876.0	1974.4	1820.5	1168.8	523.9
22.5°	133.5	220.6	754.7	1915.6	3276.7	3809.6	3910.3	3418.1	2207.5	1034.2
25°	161.8	320.2	1301.2	3121.7	4890.2	5789.7	5747.8	5102.9	3581.1	1651.9
27.5°	202.5	466.2	1967.6	4435.3	6435.7	7228.9	7323.9	6526.2	4773.6	2429.2
30°	261.4	646.1	2682.7	5487.6	7674.7	8532.3	8548.2	7723.3	5840.6	3111.5
32.5°	317.9	815.8	3308.4	6504.7	8895.5	9835.8	9905.9	8891.0	6637.1	3822.1
35°	360.9	926.7	3942.0	7398.6	10126.5	11422.1	11417.5	10212.5	7580.8	4456.8
37.5°	364.3	1037.5	4515.6	8312.8	11685.7	13136.2	13279.9	11951.6	8721.3	5242.0
40°	356.4	1162.0	5242.0	9738.4	14495.1	16720.7	16847.4	15172.8	11009.1	6586.2
42.5°	365.5	1378.1	6421.0	12371.3	19160.1	22356.4	22600.8	20840.3	15214.7	9328.9
45°	413.0	1784.3	8891.0	16776.1	25809.7	29706.4	29624.9	27089.3	20108.2	13503.9
47.5°	570.3	2778.9	12552.4	21063.2	30059.4	33529.6	33599.7	30500.7	22964.0	16713.9
50°	876.9	4252.0	15628.8	23329.5	31886.7	35368.2	35302.6	31721.5	24049.1	18294.5
52.5°	1140.5	5317.8	17172.1	24124.9	32120.9	36276.8	36272.2	32042.8	24217.7	18430.3
55°	1206.1	5398.2	17184.6	24167.9	32645.9	37465.9	37615.3	32833.7	24436.1	17837.4
57.5°	1180.1	4779.3	16467.2	24416.8	33580.5	38385.8	38393.7	33599.7	24990.5	17474.2
58°	1157.5	4682.0	16322.4	24558.3	33741.2	38424.3	38405.0	33634.8	25441.9	17460.6
60°	1030.8	4065.3	15757.8	24919.2	33502.4	37634.5	37454.6	32868.8	25375.2	17321.5
62.5°	810.1	3171.5	15202.2	24501.7	30943.1	33811.3	33886.0	29099.9	23132.6	16510.2
65°	644.9	2363.6	14043.6	21492.0	25480.4	27765.9	28044.3	23663.3	19308.3	13980.3
67.5°	513.7	1708.5	11780.7	17111.0	20162.6	23173.4	23375.9	19867.2	14959.0	10711.5
70°	417.5	1155.2	8131.8	12513.9	16630.1	20015.5	20027.9	16504.6	11165.2	7018.4
72.5°	370.0	799.9	4720.4	9126.3	13484.7	16309.9	15980.7	13393.1	8581.0	4157.0
75°	320.2	530.7	2315.0	5579.2	8175.9	8231.3	8356.9	6212.8	4289.4	1976.7
77.5°	263.6	376.8	912.0	1524.1	2451.9	3138.7	3255.2	2466.6	1426.8	486.5
80°	181.0	178.8	245.5	467.3	701.5	879.1	820.3	634.7	373.4	186.7
82.5°	78.1	84.9	110.9	133.5	108.6	105.2	100.7	64.5	49.8	38.5
85°	24.9	22.6	23.8	23.8	19.2	14.7	14.7	6.8	0.0	0.0
87.5°	12.4	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°
65.6	0°	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
61.1	2.5°	60.0	60.0	57.7	55.4	54.3	52.0	50.9	49.8	48.7	47.5
65.6	5°	63.4	62.2	58.8	55.4	52.0	48.7	46.4	44.1	41.9	40.7
72.4	7.5°	69.0	66.8	60.0	54.3	49.8	45.3	43.0	39.6	37.3	33.9
80.3	10°	75.8	71.3	62.2	55.4	48.7	43.0	39.6	36.2	32.8	28.3
91.6	12.5°	84.9	76.9	65.6	54.3	46.4	39.6	36.2	31.7	28.3	24.9
106.4	15°	92.8	82.6	66.8	54.3	44.1	36.2	31.7	27.2	23.8	19.2
133.5	17.5°	104.1	87.1	65.6	50.9	40.7	31.7	27.2	23.8	18.1	11.3
198.0	20°	123.3	90.5	63.4	47.5	35.1	26.0	20.4	15.8	7.9	2.3
297.6	22.5°	153.9	99.6	61.1	43.0	30.5	20.4	13.6	5.7	0.0	0.0
452.6	25°	212.7	115.4	61.1	40.7	27.2	14.7	4.5	0.0	0.0	0.0
642.7	27.5°	282.9	136.9	61.1	35.1	21.5	7.9	0.0	0.0	0.0	0.0
875.7	30°	354.1	160.7	61.1	30.5	17.0	1.1	0.0	0.0	0.0	0.0
1078.3	32.5°	422.0	181.0	62.2	26.0	11.3	0.0	0.0	0.0	0.0	0.0
1358.9	35°	491.1	184.4	61.1	22.6	6.8	0.0	0.0	0.0	0.0	0.0
1702.8	37.5°	579.3	177.6	57.7	20.4	3.4	0.0	0.0	0.0	0.0	0.0
2240.3	40°	712.8	181.0	54.3	19.2	1.1	0.0	0.0	0.0	0.0	0.0
3198.6	42.5°	959.5	195.7	49.8	19.2	0.0	0.0	0.0	0.0	0.0	0.0
5094.9	45°	1658.7	262.5	45.3	20.4	0.0	0.0	0.0	0.0	0.0	0.0
7648.6	47.5°	2743.8	471.8	44.1	20.4	0.0	0.0	0.0	0.0	0.0	0.0
9213.5	50°	3501.9	594.0	46.4	21.5	0.0	0.0	0.0	0.0	0.0	0.0
9409.2	52.5°	3496.2	661.9	48.7	22.6	4.5	0.0	0.0	0.0	0.0	0.0
8672.6	55°	3108.1	674.3	52.0	24.9	14.7	0.0	0.0	0.0	0.0	0.0
7452.9	57.5°	2597.8	615.5	60.0	30.5	27.2	0.0	0.0	0.0	0.0	0.0
7261.7	58°	2507.3	588.4	62.2	31.7	29.4	0.0	0.0	0.0	0.0	0.0
6298.8	60°	2054.7	479.7	79.2	39.6	39.6	0.0	0.0	0.0	0.0	0.0
5164.0	62.5°	1418.8	418.6	90.5	50.9	40.7	0.0	0.0	0.0	0.0	0.0
3807.4	65°	1003.6	377.9	98.4	54.3	32.8	0.0	0.0	0.0	0.0	0.0
2705.3	67.5°	750.2	348.5	108.6	55.4	17.0	0.0	0.0	0.0	0.0	0.0
1697.2	70°	574.8	327.0	133.5	58.8	4.5	0.0	0.0	0.0	0.0	0.0
1011.5	72.5°	468.4	302.1	161.8	61.1	0.0	0.0	0.0	0.0	0.0	0.0
606.5	75°	388.1	272.7	156.1	66.8	0.0	0.0	0.0	0.0	0.0	0.0
323.6	77.5°	258.0	211.6	142.6	66.8	0.0	0.0	0.0	0.0	0.0	0.0
115.4	80°	90.5	83.7	110.9	58.8	0.0	0.0	0.0	0.0	0.0	0.0
23.8	82.5°	13.6	11.3	15.8	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°
65.6	0°	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
46.4	2.5°	46.4	46.4	45.3	46.4	46.4	48.7	54.3	62.2	71.3	74.7
39.6	5°	38.5	37.3	36.2	36.2	36.2	39.6	44.1	53.2	63.4	67.9
32.8	7.5°	31.7	30.5	29.4	28.3	28.3	30.5	36.2	46.4	56.6	61.1
27.2	10°	26.0	23.8	22.6	21.5	21.5	23.8	29.4	39.6	50.9	55.4
22.6	12.5°	21.5	18.1	15.8	14.7	13.6	17.0	22.6	31.7	44.1	49.8
17.0	15°	14.7	11.3	7.9	6.8	5.7	9.1	14.7	24.9	37.3	44.1
9.1	17.5°	7.9	3.4	1.1	0.0	0.0	2.3	6.8	18.1	30.5	36.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	22.6	28.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	13.6	19.2
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°
65.6	0°	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
78.1	2.5°	80.3	79.2	76.9	74.7	74.7	74.7	78.1	81.5	84.9	84.9
70.2	5°	74.7	74.7	73.5	71.3	71.3	72.4	76.9	82.6	87.1	88.3
64.5	7.5°	69.0	71.3	69.0	67.9	69.0	70.2	74.7	81.5	88.3	90.5
60.0	10°	65.6	66.8	66.8	65.6	65.6	67.9	72.4	81.5	90.5	93.9
54.3	12.5°	61.1	63.4	62.2	62.2	62.2	64.5	70.2	80.3	92.8	97.3
48.7	15°	56.6	60.0	60.0	58.8	58.8	60.0	67.9	79.2	96.2	104.1
41.9	17.5°	52.0	55.4	56.6	54.3	54.3	56.6	64.5	79.2	98.4	112.0
33.9	20°	43.0	48.7	52.0	48.7	48.7	50.9	58.8	74.7	99.6	119.9
24.9	22.5°	33.9	39.6	44.1	43.0	43.0	44.1	54.3	71.3	100.7	133.5
14.7	25°	24.9	30.5	33.9	36.2	36.2	39.6	49.8	69.0	105.2	161.8
6.8	27.5°	14.7	21.5	26.0	28.3	29.4	33.9	46.4	66.8	113.1	202.5
0.0	30°	6.8	12.4	18.1	22.6	22.6	30.5	43.0	64.5	123.3	261.4
0.0	32.5°	0.0	5.7	9.1	15.8	17.0	24.9	39.6	62.2	138.0	317.9
0.0	35°	0.0	0.0	4.5	12.4	12.4	20.4	36.2	60.0	160.7	360.9
0.0	37.5°	0.0	0.0	0.0	9.1	10.2	18.1	35.1	58.8	165.2	364.3
0.0	40°	0.0	0.0	0.0	6.8	7.9	17.0	35.1	60.0	149.4	356.4
0.0	42.5°	0.0	0.0	0.0	4.5	5.7	17.0	35.1	62.2	134.6	365.5
0.0	45°	0.0	0.0	0.0	3.4	4.5	18.1	33.9	61.1	126.7	413.0
0.0	47.5°	0.0	0.0	0.0	4.5	6.8	18.1	32.8	60.0	127.9	570.3
0.0	50°	0.0	0.0	0.0	5.7	7.9	18.1	33.9	57.7	140.3	876.9
0.0	52.5°	0.0	0.0	0.0	4.5	6.8	20.4	37.3	56.6	152.7	1140.5
0.0	55°	0.0	0.0	0.0	1.1	3.4	26.0	40.7	56.6	172.0	1206.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	29.4	46.4	60.0	203.7	1180.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	29.4	47.5	60.0	205.9	1157.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	29.4	52.0	66.8	221.8	1030.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	24.9	62.2	83.7	230.8	810.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	20.4	73.5	91.6	237.6	644.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	19.2	75.8	92.8	241.0	513.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	20.4	74.7	99.6	252.3	417.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	22.6	67.9	109.8	252.3	370.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	23.8	63.4	123.3	229.7	320.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	22.6	62.2	143.7	204.8	263.6
0.0	80°	2.3	3.4	3.4	2.3	2.3	19.2	61.1	146.0	174.2	181.0
1.1	82.5°	6.8	9.1	7.9	5.7	5.7	17.0	54.3	122.2	90.5	78.1
6.8	85°	12.4	14.7	14.7	12.4	12.4	15.8	33.9	44.1	30.5	24.9
12.4	87.5°	17.0	19.2	19.2	17.0	17.0	15.8	14.7	13.6	12.4	12.4
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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

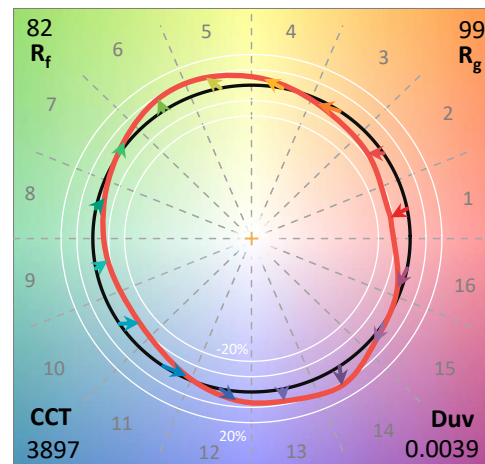
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-11
 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-840-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3897
 CIE u' : 0.2249
 CIE v' : 0.5084
 Duv: 0.0039
 CIE x: 0.3882
 CIE y: 0.3900
 CIE z: 0.2218
 Peak Wavelength (nm): 445
 Dominant Wavelength (nm): 577
 Purity: 33.54925
 R_f: 81.8
 R_g: 98.6

CRI (Ra): 80.2
 R1: 78.9
 R2: 83.5
 R3: 88.3
 R4: 82.1
 R5: 78.8
 R6: 78.4
 R7: 85.8
 R8: 65.8
 R9: 6.7
 R10: 61.9
 R11: 81.9
 R12: 58.9
 R13: 79.2
 R14: 93.2
 R15: 71.9



Test Conditions

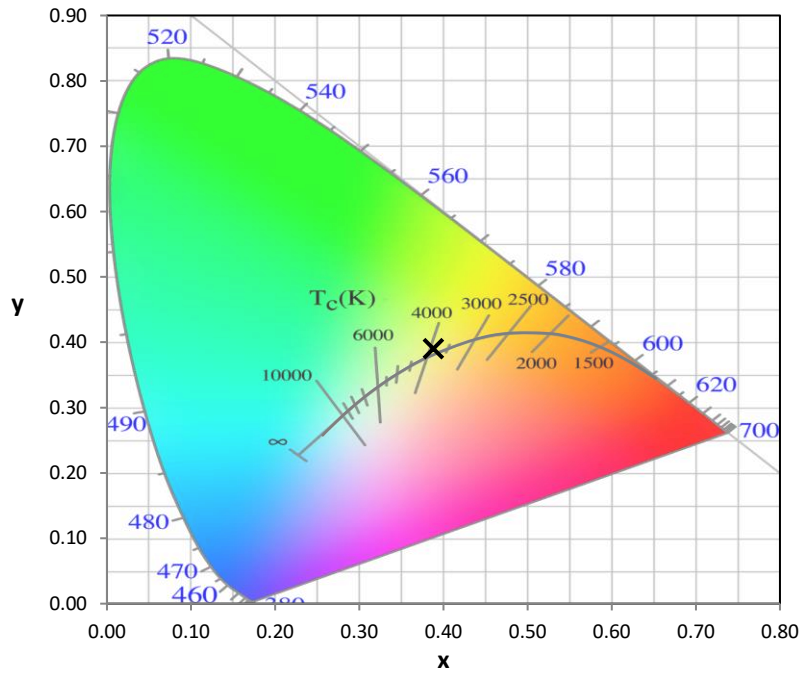
Stabilization Time: 24M
 Operation Time: 1H 24M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-11

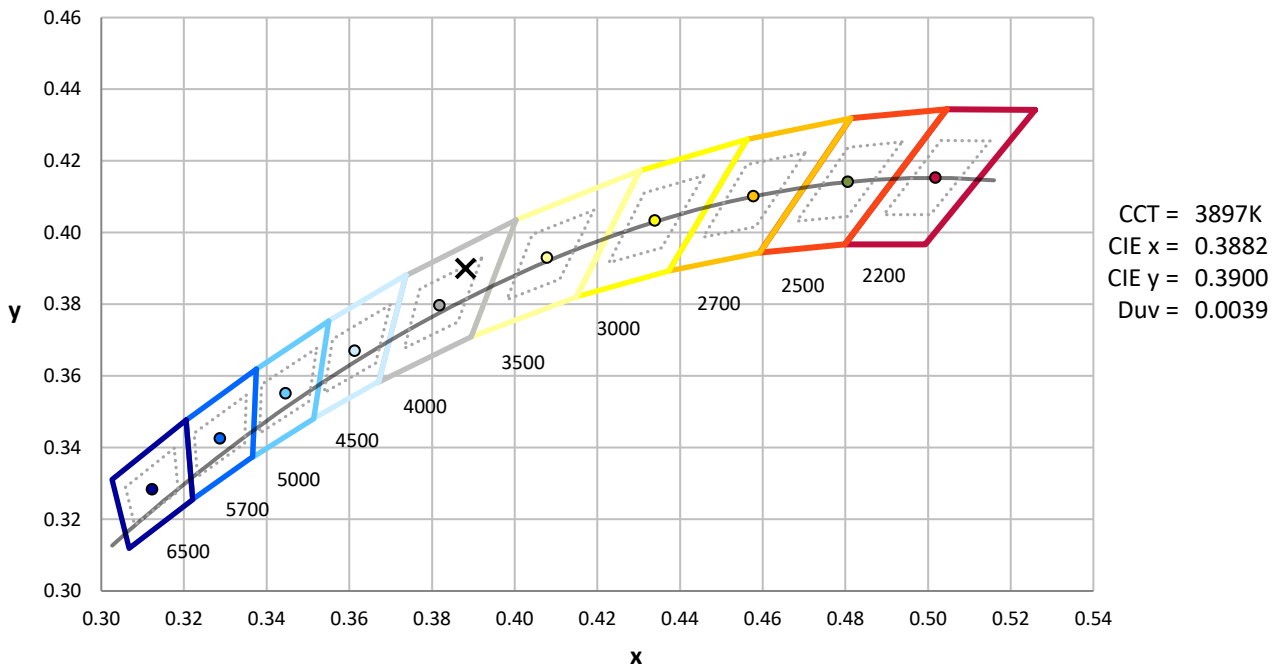
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



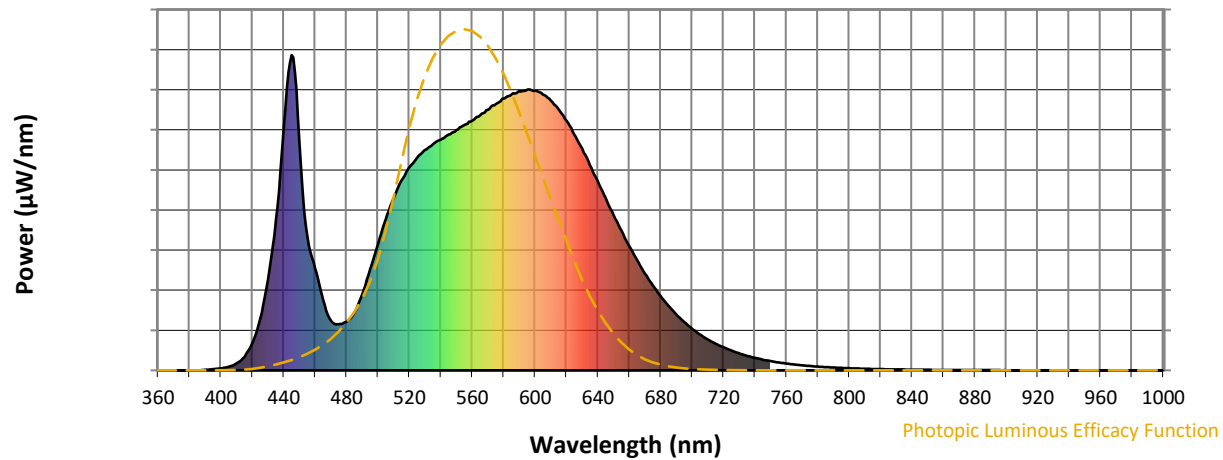
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

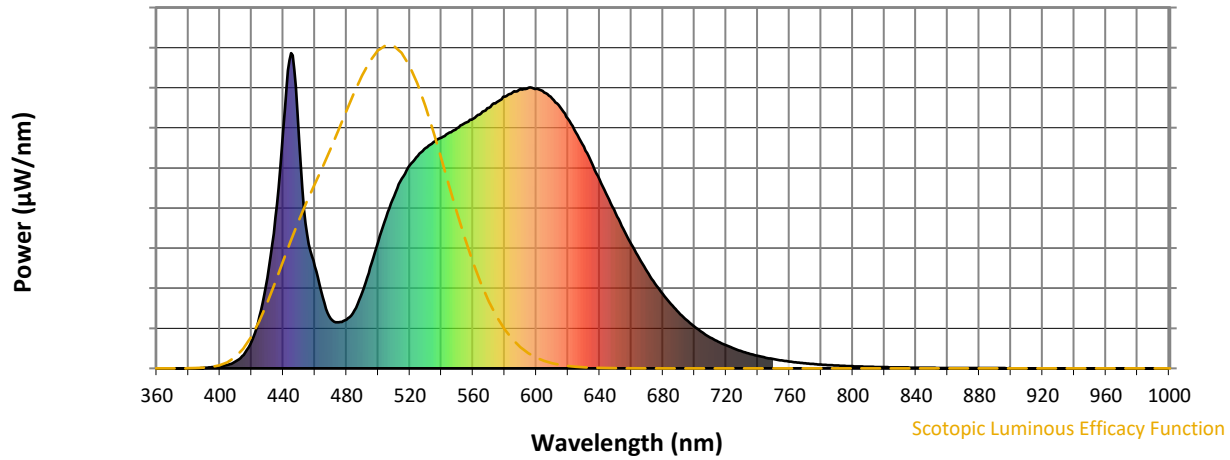


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength



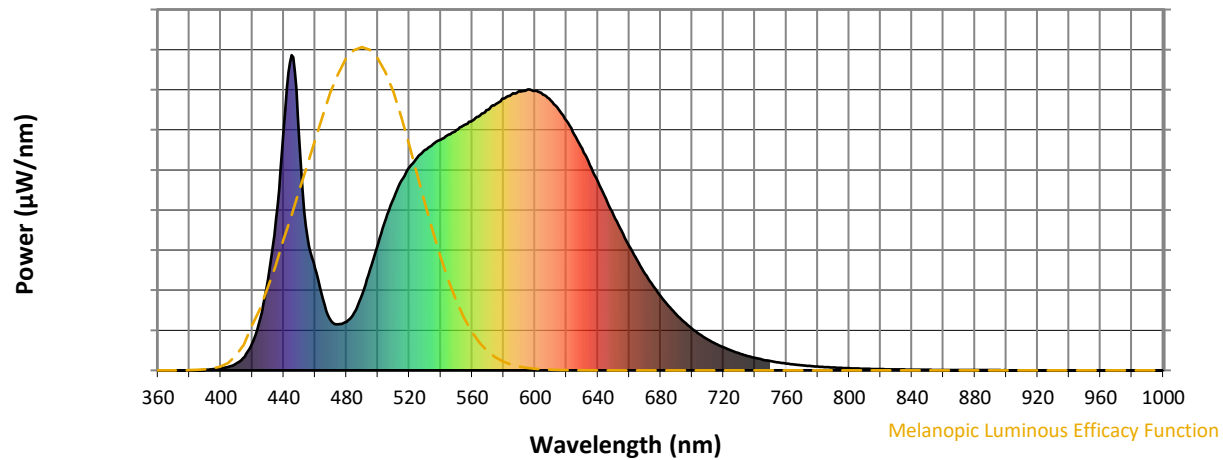
Scotopic Lumens: NR

S/P: 1.57

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.06

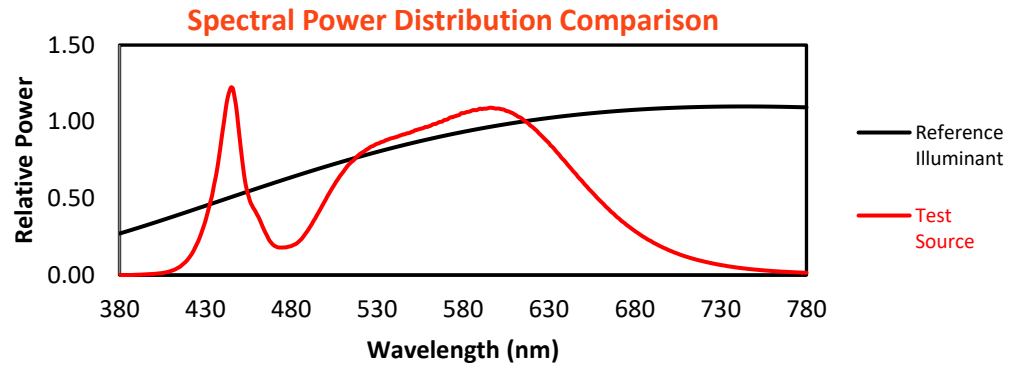
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

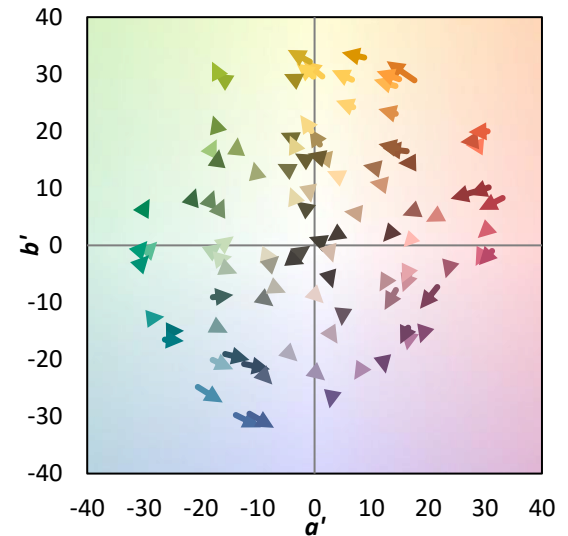
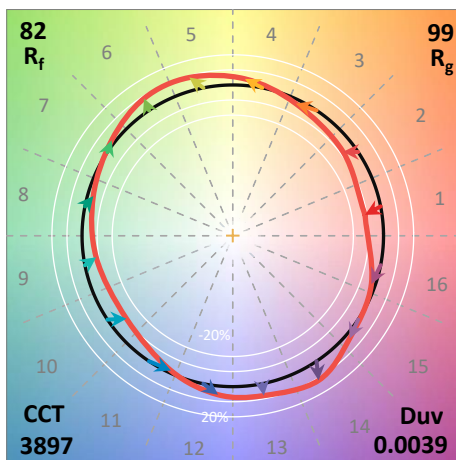
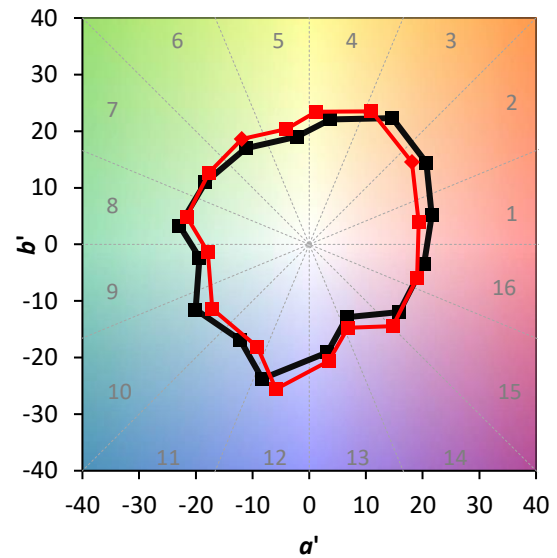
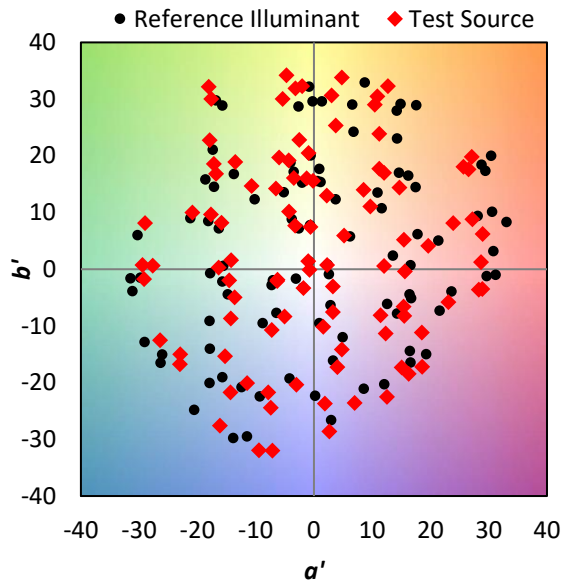
TM-30-18

Summary

$R_f = 81.8$
 $R_g = 98.6$
 $CIE R_a = 80.2$
 $R_9 = 6.7$

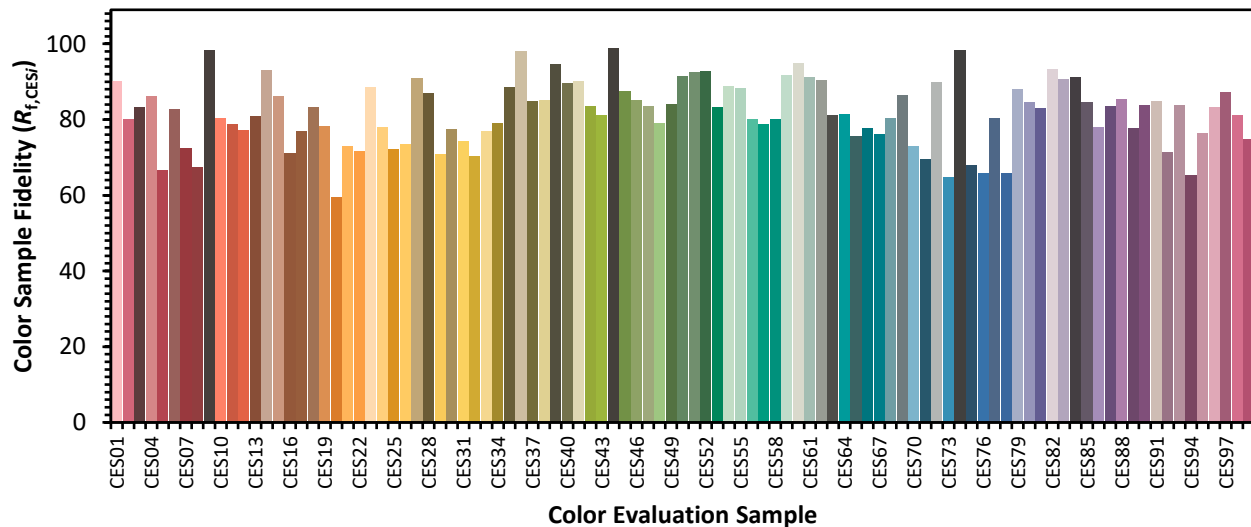


Color Vector Graphics

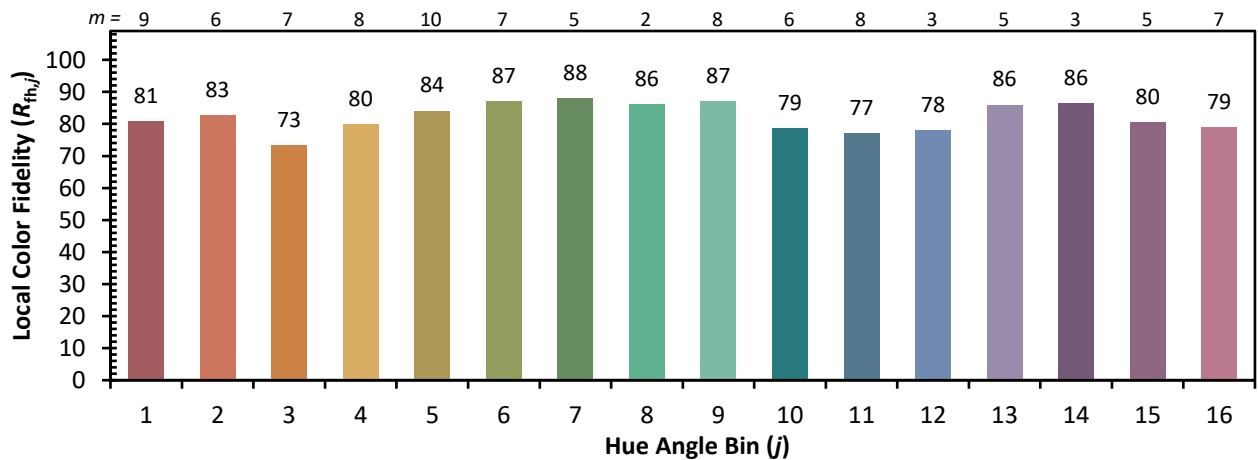
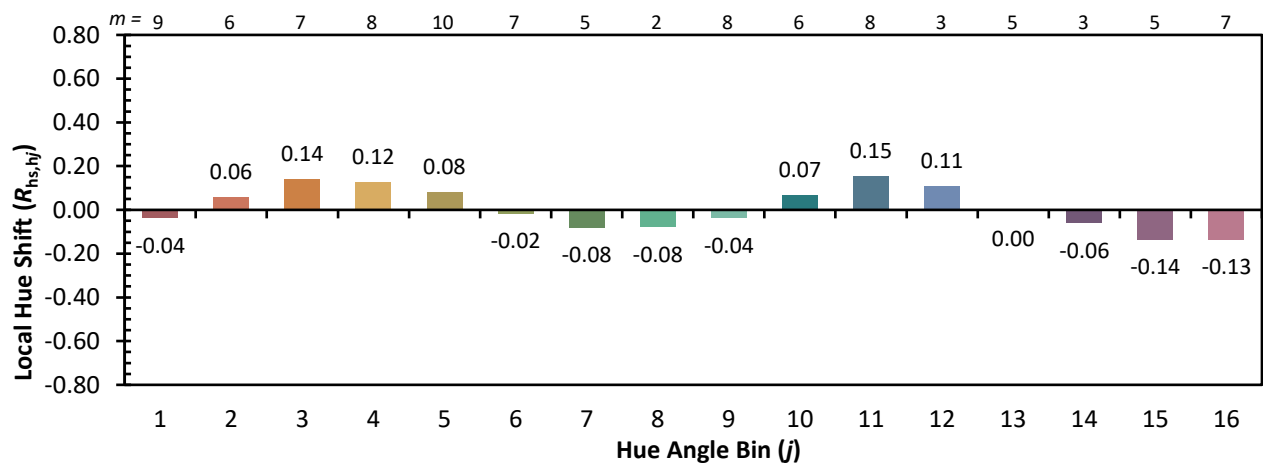
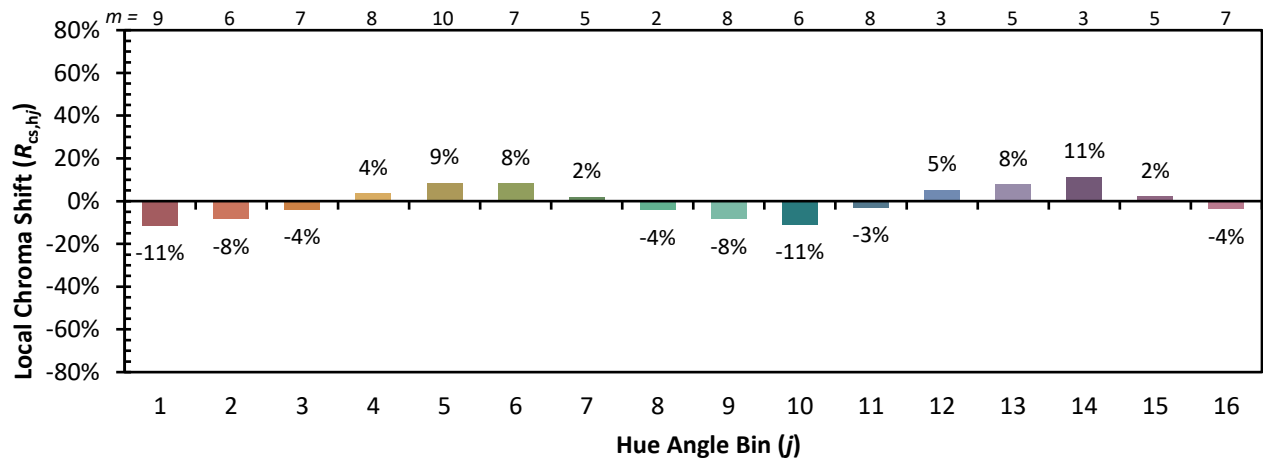


Individual Sample Fidelity Index ($R_{f,i}$)

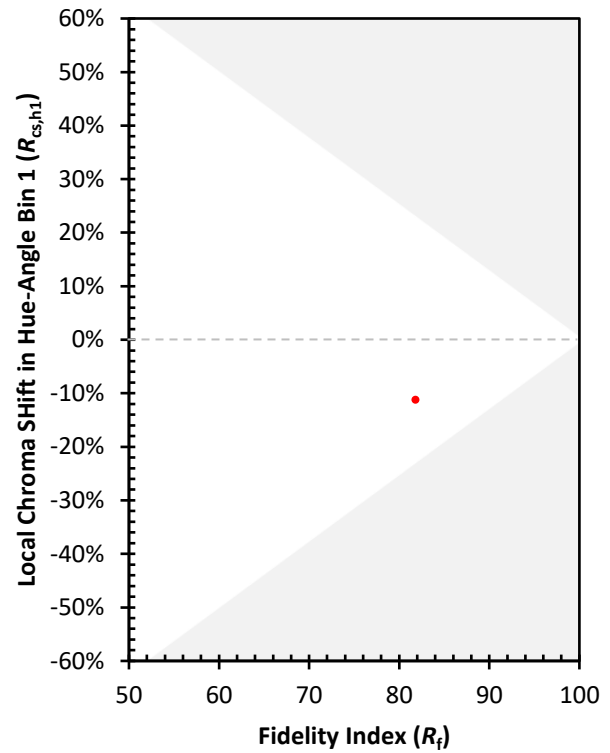
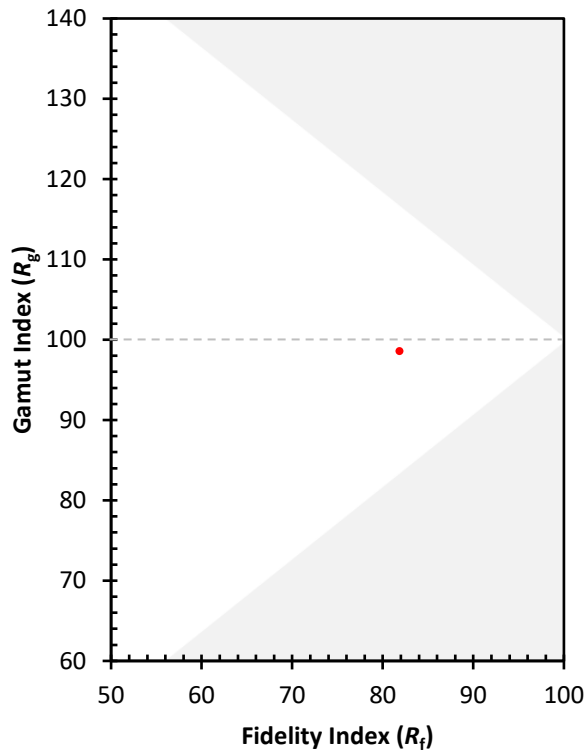
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)