

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: P1049815

Luminaire Tested: **GALN-SA8C-835-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049815
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 8xLight Square PACKAGE
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36148.4 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G5

Input Watts (W): 372.9
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

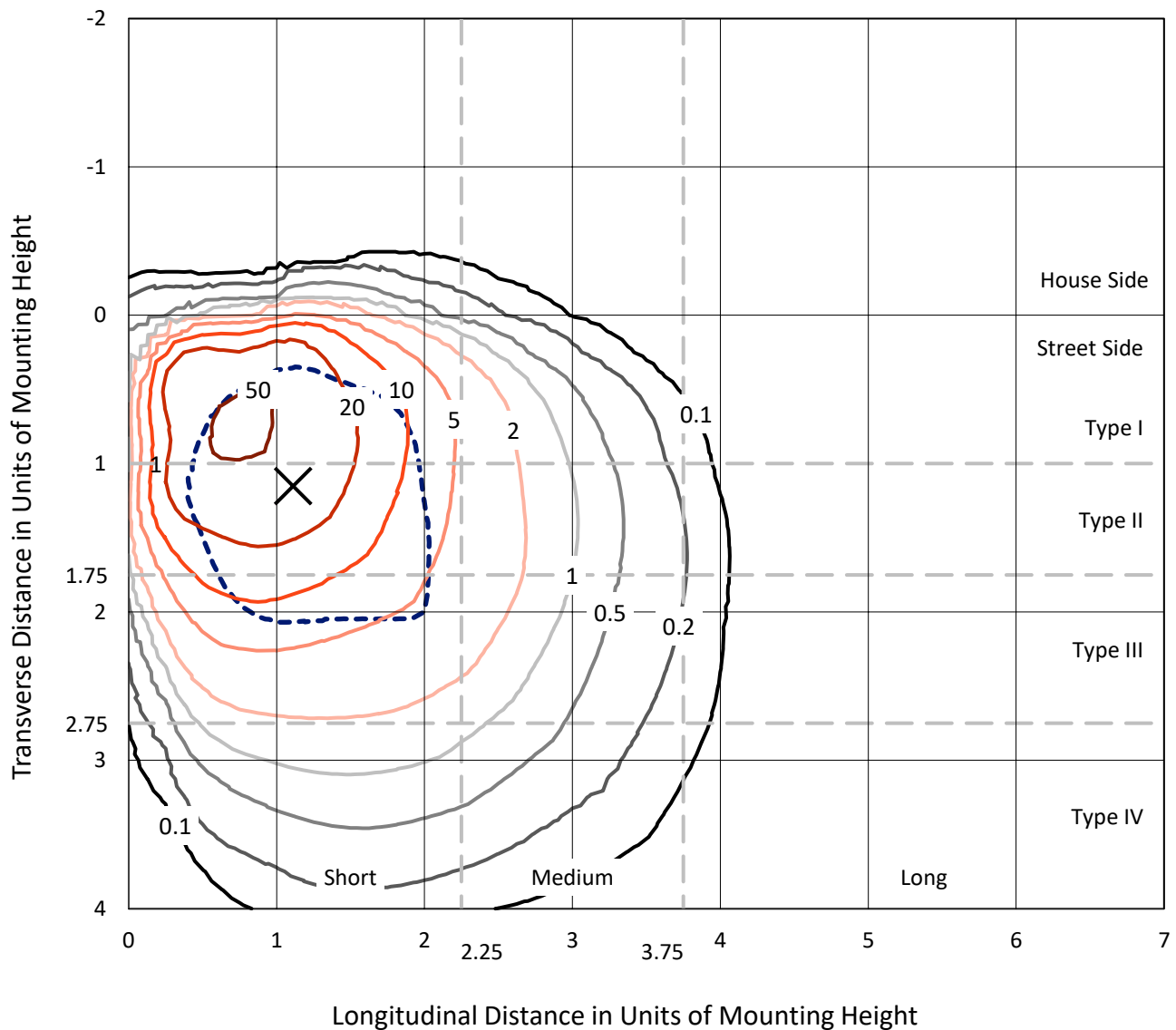
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

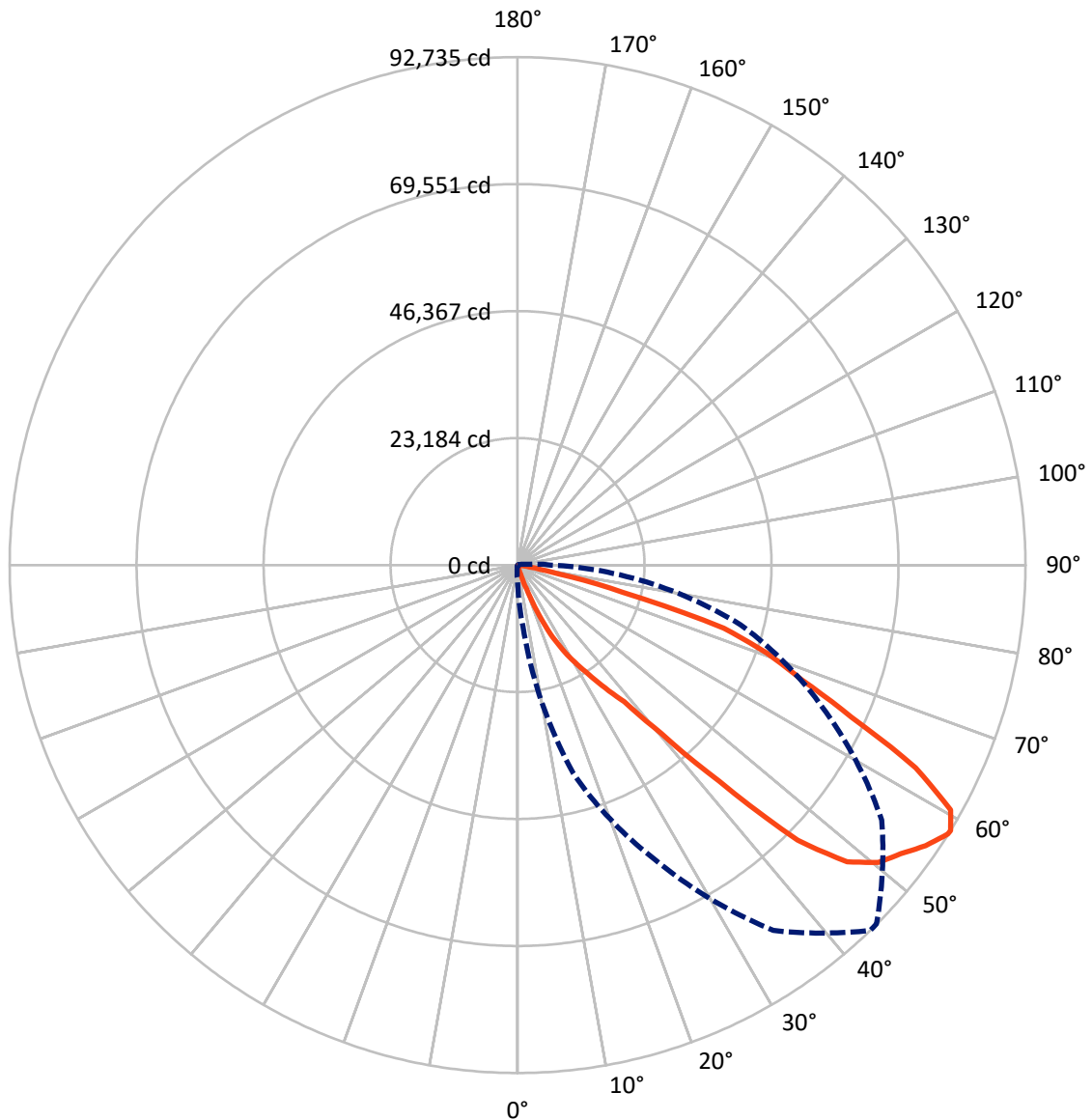


Based on 20 foot mounting height. Maximum calculated value = 62.9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	246.8	0.0	246.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	35901.6	0.0	35901.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	36148.4	0.0	36148.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	0.0
10°-20°	79.3	0.2
20°-30°	856.4	2.4
30°-40°	2532.6	7.0
40°-50°	7548.4	20.9
50°-60°	11977.4	33.1
60°-70°	9990.6	27.6
70°-80°	3081.3	8.5
80°-90°	68.4	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°	36148.4	100.0
0°-180°	36148.4	100.0



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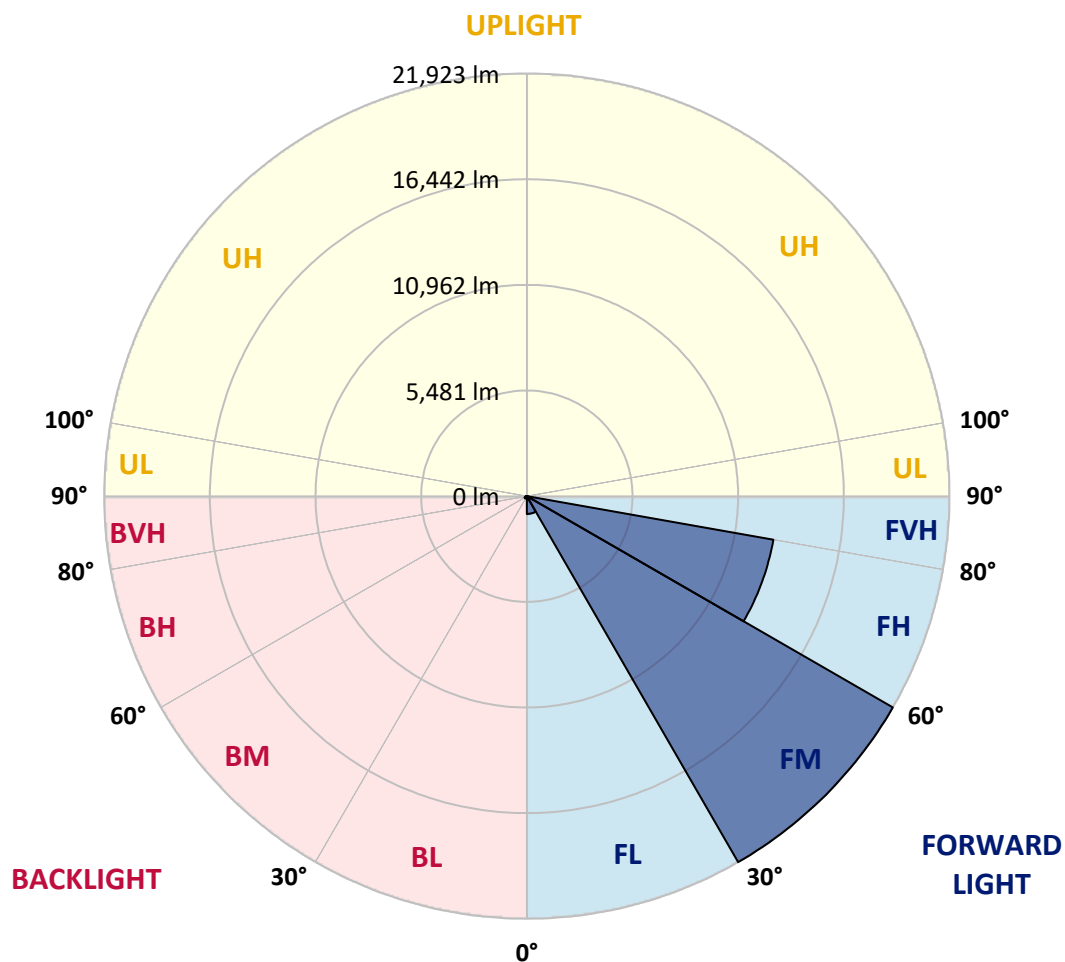
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	925.6	2.6			
FM	(30°-60°)	21923.2	60.6			
FH	(60°-80°)	12987.6	35.9			G5
FVH	(80°-90°)	65.1	0.2			G1/100
BL	(0°-30°)	24.2	0.1	B0/110		
BM	(30°-60°)	135.1	0.4	B0/220		
BH	(60°-80°)	84.3	0.2	B0/110		G0/110
BVH	(80°-90°)	3.3	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4
2.5°	204.8	204.8	196.6	185.7	174.8	163.8	161.1	155.7	152.9	150.2
5°	213.0	213.0	210.3	202.1	191.1	183.0	183.0	174.8	169.3	163.8
7.5°	218.5	221.2	226.6	223.9	218.5	210.3	210.3	204.8	196.6	183.0
10°	226.6	234.8	245.8	251.2	254.0	254.0	251.2	248.5	234.8	215.7
12.5°	234.8	251.2	278.5	305.8	322.2	344.1	341.3	335.9	300.4	259.4
15°	251.2	275.8	333.1	412.3	535.2	611.7	641.7	614.4	497.0	349.5
17.5°	270.3	311.3	483.3	862.9	1414.5	1676.7	1835.0	1706.7	1130.5	663.6
20°	289.5	379.6	898.4	2236.4	3670.1	4527.5	4765.1	4393.7	2820.8	1264.3
22.5°	322.2	532.5	1821.4	4623.1	7908.1	9194.3	9437.3	8249.5	5327.6	2495.9
25°	390.5	772.8	3140.3	7534.0	11802.1	13973.0	13872.0	12315.5	8642.7	3986.8
27.5°	488.8	1125.0	4748.7	10704.4	15532.2	17446.5	17675.8	15750.7	11520.8	5862.8
30°	630.8	1559.2	6474.5	13243.9	18522.4	20592.2	20630.5	18639.8	14095.9	7509.4
32.5°	767.3	1968.8	7984.6	15698.8	21468.8	23738.0	23907.3	21457.9	16018.3	9224.3
35°	871.1	2236.4	9513.8	17856.1	24439.8	27566.4	27555.5	24647.3	18295.7	10756.2
37.5°	879.3	2504.1	10898.2	20062.5	28202.7	31703.5	32050.3	28844.4	21048.3	12651.3
40°	860.2	2804.4	12651.3	23503.2	34983.0	40354.3	40660.2	36618.7	26569.7	15895.4
42.5°	882.0	3326.0	15496.7	29857.5	46241.7	53956.0	54545.8	50296.8	36719.8	22514.6
45°	996.7	4306.3	21457.9	40488.1	62290.1	71694.6	71498.0	65378.5	48530.1	32590.9
47.5°	1376.3	6706.6	30294.4	50834.8	72546.6	80921.6	81091.0	73611.6	55422.3	40337.9
50°	2116.3	10262.0	37719.2	56304.4	76956.7	85359.0	85200.7	76558.0	58041.1	44152.7
52.5°	2752.5	12834.3	41443.9	58224.0	77521.9	87551.8	87540.9	77333.5	58448.0	44480.4
55°	2910.9	13028.2	41473.9	58327.8	78789.0	90421.8	90782.2	79242.3	58975.0	43049.5
57.5°	2848.1	11534.5	39742.6	58928.6	81044.5	92641.8	92660.9	81091.0	60313.0	42173.0
58°	2793.5	11299.6	39393.1	59269.9	81432.3	92734.7	92688.2	81175.6	61402.6	42140.2
60°	2487.7	9811.4	38030.5	60141.0	80856.1	90828.6	90394.5	79326.9	61241.5	41804.3
62.5°	1955.2	7654.2	36689.7	59133.4	74679.3	81601.6	81781.8	70230.9	55829.2	39846.4
65°	1556.5	5704.4	33893.5	51869.7	61495.4	67011.4	67683.2	57109.9	46599.4	33740.6
67.5°	1239.7	4123.4	28432.1	41296.4	48661.1	55927.5	56416.3	47948.4	36102.6	25851.6
70°	1007.6	2788.0	19625.6	30201.6	40135.9	48306.1	48336.2	39832.8	26946.6	16938.5
72.5°	892.9	1930.6	11392.5	22025.8	32544.5	39363.1	38568.4	32323.3	20709.7	10032.6
75°	772.8	1280.7	5587.0	13465.1	19732.1	19865.9	20169.0	14994.3	10352.1	4770.5
77.5°	636.3	909.3	2200.9	3678.3	5917.4	7575.0	7856.2	5952.9	3443.4	1174.2
80°	436.9	431.5	592.6	1127.8	1693.0	2121.8	1979.8	1531.9	901.1	450.6
82.5°	188.4	204.8	267.6	322.2	262.1	254.0	243.0	155.7	120.2	92.8
85°	60.1	54.6	57.3	57.3	46.4	35.5	35.5	16.4	0.0	0.0
87.5°	30.0	24.6	24.6	21.8	13.7	5.5	2.7	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°
158.4	0°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4
147.5	2.5°	144.7	144.7	139.3	133.8	131.1	125.6	122.9	120.2	117.4	114.7
158.4	5°	152.9	150.2	142.0	133.8	125.6	117.4	112.0	106.5	101.0	98.3
174.8	7.5°	166.6	161.1	144.7	131.1	120.2	109.2	103.8	95.6	90.1	81.9
193.9	10°	183.0	172.0	150.2	133.8	117.4	103.8	95.6	87.4	79.2	68.3
221.2	12.5°	204.8	185.7	158.4	131.1	112.0	95.6	87.4	76.5	68.3	60.1
256.7	15°	223.9	199.3	161.1	131.1	106.5	87.4	76.5	65.5	57.3	46.4
322.2	17.5°	251.2	210.3	158.4	122.9	98.3	76.5	65.5	57.3	43.7	27.3
477.9	20°	297.6	218.5	152.9	114.7	84.7	62.8	49.2	38.2	19.1	5.5
718.2	22.5°	371.4	240.3	147.5	103.8	73.7	49.2	32.8	13.7	0.0	0.0
1092.3	25°	513.4	278.5	147.5	98.3	65.5	35.5	10.9	0.0	0.0	0.0
1551.0	27.5°	682.7	330.4	147.5	84.7	51.9	19.1	0.0	0.0	0.0	0.0
2113.6	30°	854.7	387.8	147.5	73.7	41.0	2.7	0.0	0.0	0.0	0.0
2602.4	32.5°	1018.6	436.9	150.2	62.8	27.3	0.0	0.0	0.0	0.0	0.0
3279.6	35°	1185.1	445.1	147.5	54.6	16.4	0.0	0.0	0.0	0.0	0.0
4109.7	37.5°	1398.1	428.7	139.3	49.2	8.2	0.0	0.0	0.0	0.0	0.0
5406.8	40°	1720.3	436.9	131.1	46.4	2.7	0.0	0.0	0.0	0.0	0.0
7719.7	42.5°	2315.6	472.4	120.2	46.4	0.0	0.0	0.0	0.0	0.0	0.0
12296.4	45°	4003.2	633.5	109.2	49.2	0.0	0.0	0.0	0.0	0.0	0.0
18459.6	47.5°	6622.0	1138.7	106.5	49.2	0.0	0.0	0.0	0.0	0.0	0.0
22236.1	50°	8451.5	1433.6	112.0	51.9	0.0	0.0	0.0	0.0	0.0	0.0
22708.5	52.5°	8437.9	1597.5	117.4	54.6	10.9	0.0	0.0	0.0	0.0	0.0
20930.8	55°	7501.2	1627.5	125.6	60.1	35.5	0.0	0.0	0.0	0.0	0.0
17987.1	57.5°	6269.7	1485.5	144.7	73.7	65.5	0.0	0.0	0.0	0.0	0.0
17525.7	58°	6051.2	1420.0	150.2	76.5	71.0	0.0	0.0	0.0	0.0	0.0
15201.8	60°	4959.0	1157.8	191.1	95.6	95.6	0.0	0.0	0.0	0.0	0.0
12462.9	62.5°	3424.3	1010.4	218.5	122.9	98.3	0.0	0.0	0.0	0.0	0.0
9188.8	65°	2422.1	912.1	237.6	131.1	79.2	0.0	0.0	0.0	0.0	0.0
6529.1	67.5°	1810.5	841.1	262.1	133.8	41.0	0.0	0.0	0.0	0.0	0.0
4096.1	70°	1387.2	789.2	322.2	142.0	10.9	0.0	0.0	0.0	0.0	0.0
2441.2	72.5°	1130.5	729.1	390.5	147.5	0.0	0.0	0.0	0.0	0.0	0.0
1463.7	75°	936.6	658.1	376.8	161.1	0.0	0.0	0.0	0.0	0.0	0.0
781.0	77.5°	622.6	510.6	344.1	161.1	0.0	0.0	0.0	0.0	0.0	0.0
278.5	80°	218.5	202.1	267.6	142.0	0.0	0.0	0.0	0.0	0.0	0.0
57.3	82.5°	32.8	27.3	38.2	49.2	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°
158.4	0°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4
112.0	2.5°	112.0	112.0	109.2	112.0	112.0	117.4	131.1	150.2	172.0	180.2
95.6	5°	92.8	90.1	87.4	87.4	87.4	95.6	106.5	128.3	152.9	163.8
79.2	7.5°	76.5	73.7	71.0	68.3	68.3	73.7	87.4	112.0	136.5	147.5
65.5	10°	62.8	57.3	54.6	51.9	51.9	57.3	71.0	95.6	122.9	133.8
54.6	12.5°	51.9	43.7	38.2	35.5	32.8	41.0	54.6	76.5	106.5	120.2
41.0	15°	35.5	27.3	19.1	16.4	13.7	21.8	35.5	60.1	90.1	106.5
21.8	17.5°	19.1	8.2	2.7	0.0	0.0	5.5	16.4	43.7	73.7	87.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	54.6	68.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	32.8	46.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	24.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
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	8.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	21.8
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°
158.4	0°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4
188.4	2.5°	193.9	191.1	185.7	180.2	180.2	180.2	188.4	196.6	204.8	204.8
169.3	5°	180.2	180.2	177.5	172.0	172.0	174.8	185.7	199.3	210.3	213.0
155.7	7.5°	166.6	172.0	166.6	163.8	166.6	169.3	180.2	196.6	213.0	218.5
144.7	10°	158.4	161.1	161.1	158.4	158.4	163.8	174.8	196.6	218.5	226.6
131.1	12.5°	147.5	152.9	150.2	150.2	150.2	155.7	169.3	193.9	223.9	234.8
117.4	15°	136.5	144.7	144.7	142.0	142.0	144.7	163.8	191.1	232.1	251.2
101.0	17.5°	125.6	133.8	136.5	131.1	131.1	136.5	155.7	191.1	237.6	270.3
81.9	20°	103.8	117.4	125.6	117.4	117.4	122.9	142.0	180.2	240.3	289.5
60.1	22.5°	81.9	95.6	106.5	103.8	103.8	106.5	131.1	172.0	243.0	322.2
35.5	25°	60.1	73.7	81.9	87.4	87.4	95.6	120.2	166.6	254.0	390.5
16.4	27.5°	35.5	51.9	62.8	68.3	71.0	81.9	112.0	161.1	273.1	488.8
0.0	30°	16.4	30.0	43.7	54.6	54.6	73.7	103.8	155.7	297.6	630.8
0.0	32.5°	0.0	13.7	21.8	38.2	41.0	60.1	95.6	150.2	333.1	767.3
0.0	35°	0.0	0.0	10.9	30.0	30.0	49.2	87.4	144.7	387.8	871.1
0.0	37.5°	0.0	0.0	0.0	21.8	24.6	43.7	84.7	142.0	398.7	879.3
0.0	40°	0.0	0.0	0.0	16.4	19.1	41.0	84.7	144.7	360.5	860.2
0.0	42.5°	0.0	0.0	0.0	10.9	13.7	41.0	84.7	150.2	325.0	882.0
0.0	45°	0.0	0.0	0.0	8.2	10.9	43.7	81.9	147.5	305.8	996.7
0.0	47.5°	0.0	0.0	0.0	10.9	16.4	43.7	79.2	144.7	308.6	1376.3
0.0	50°	0.0	0.0	0.0	13.7	19.1	43.7	81.9	139.3	338.6	2116.3
0.0	52.5°	0.0	0.0	0.0	10.9	16.4	49.2	90.1	136.5	368.6	2752.5
0.0	55°	0.0	0.0	0.0	2.7	8.2	62.8	98.3	136.5	415.1	2910.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	71.0	112.0	144.7	491.5	2848.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	71.0	114.7	144.7	497.0	2793.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	71.0	125.6	161.1	535.2	2487.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	60.1	150.2	202.1	557.1	1955.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	49.2	177.5	221.2	573.4	1556.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	46.4	183.0	223.9	581.6	1239.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	49.2	180.2	240.3	608.9	1007.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	54.6	163.8	264.9	608.9	892.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	57.3	152.9	297.6	554.3	772.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	54.6	150.2	346.8	494.3	636.3
0.0	80°	5.5	8.2	8.2	5.5	5.5	46.4	147.5	352.3	420.5	436.9
2.7	82.5°	16.4	21.8	19.1	13.7	13.7	41.0	131.1	294.9	218.5	188.4
16.4	85°	30.0	35.5	35.5	30.0	30.0	38.2	81.9	106.5	73.7	60.1
30.0	87.5°	41.0	46.4	46.4	41.0	41.0	38.2	35.5	32.8	30.0	30.0
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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

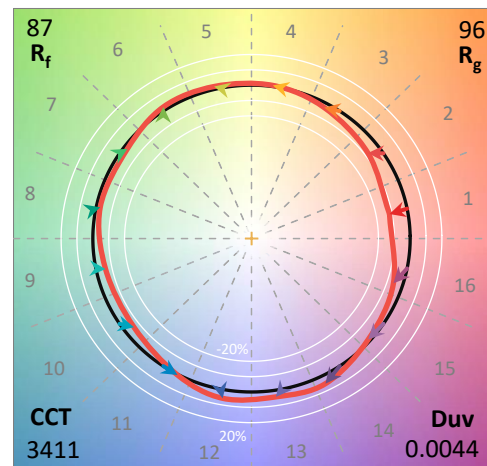
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u' : 0.2360
 CIE v' : 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 R_f: 86.6
 R_g: 95.9

CRI (Ra): 83.5
 R1: 81.1
 R2: 88.9
 R3: 97.2
 R4: 83.8
 R5: 81.7
 R6: 86.9
 R7: 86.1
 R8: 62.2
 R9: 6.3
 R10: 75.4
 R11: 84.1
 R12: 69.7
 R13: 82.8
 R14: 98.5
 R15: 72.6



Test Conditions

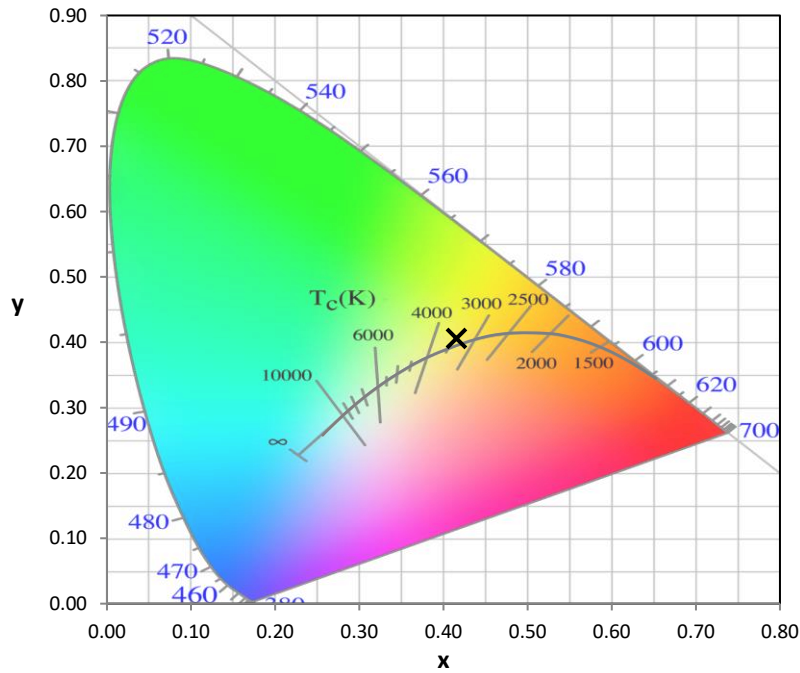
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

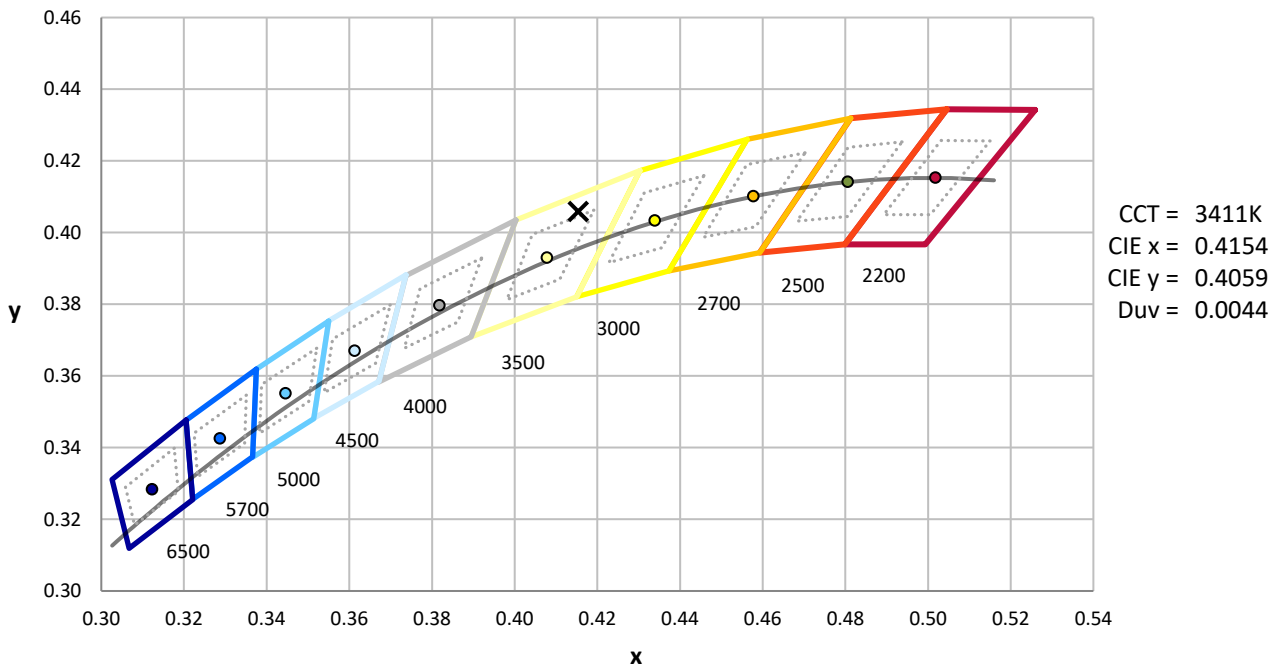
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



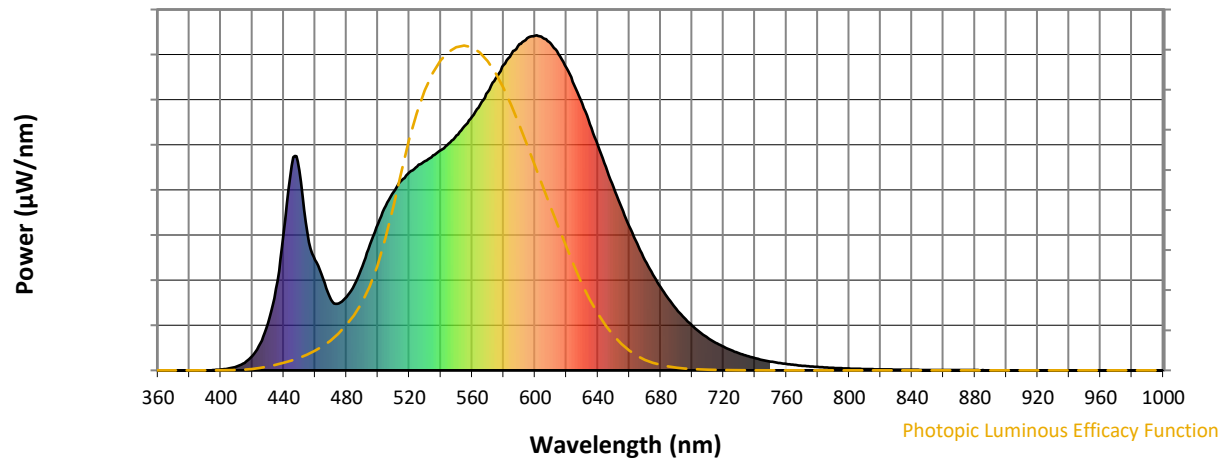
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

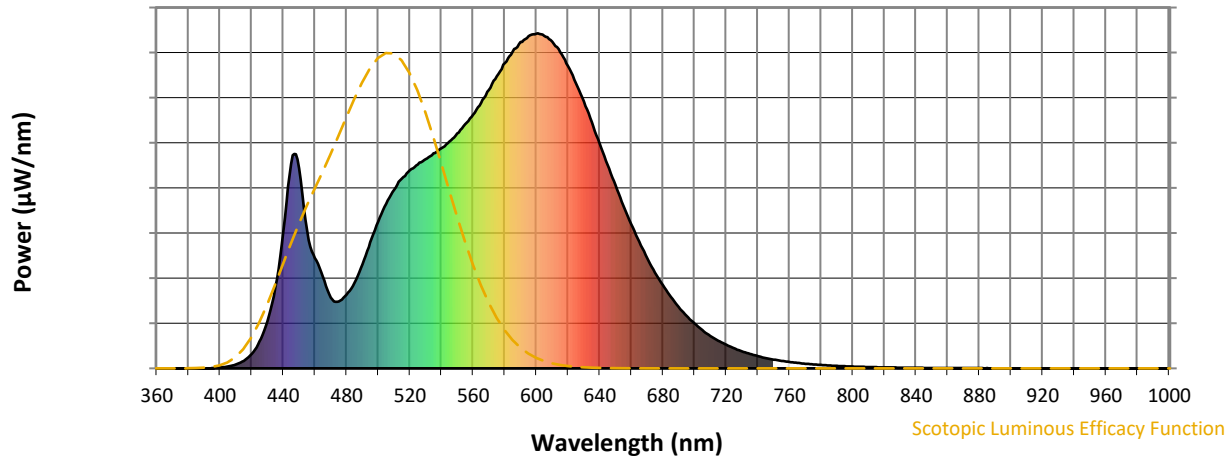


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength



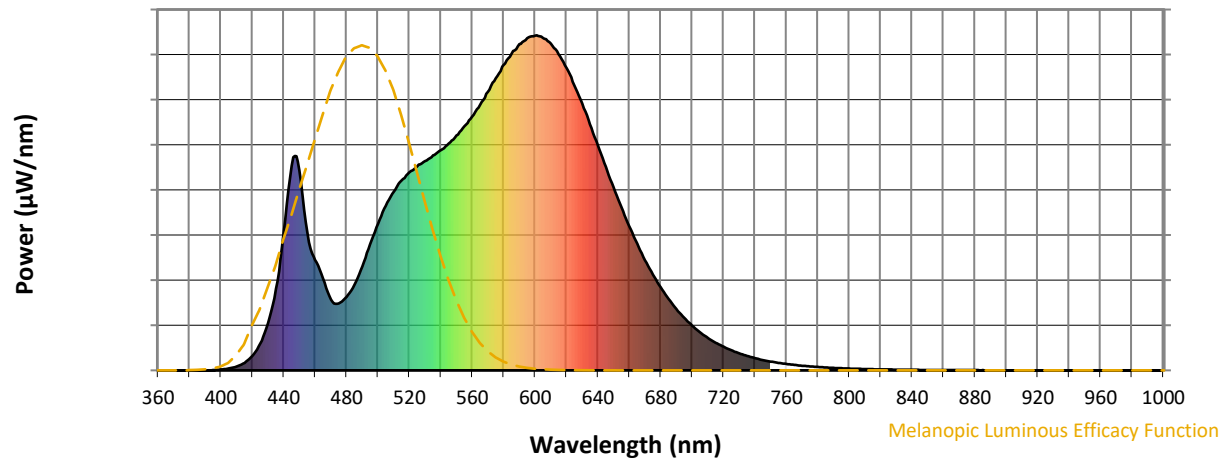
Scotopic Lumens: NR

S/P: 1.48

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.88

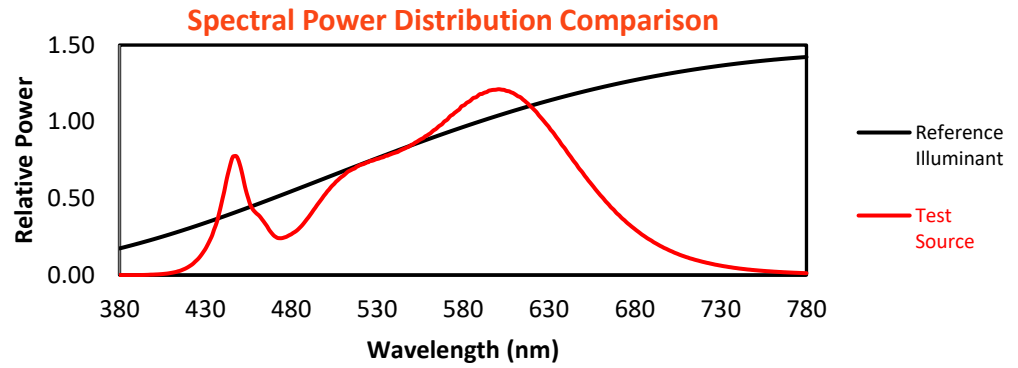
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

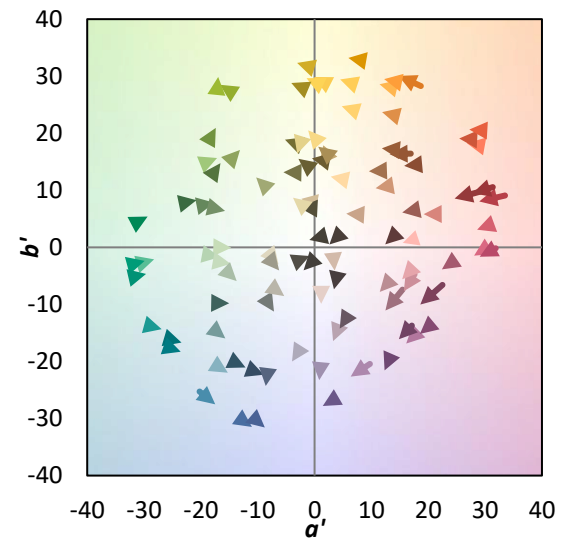
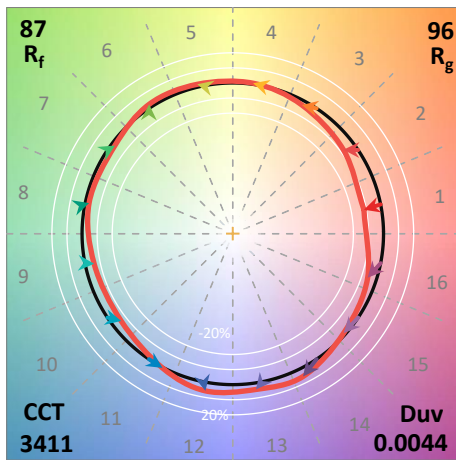
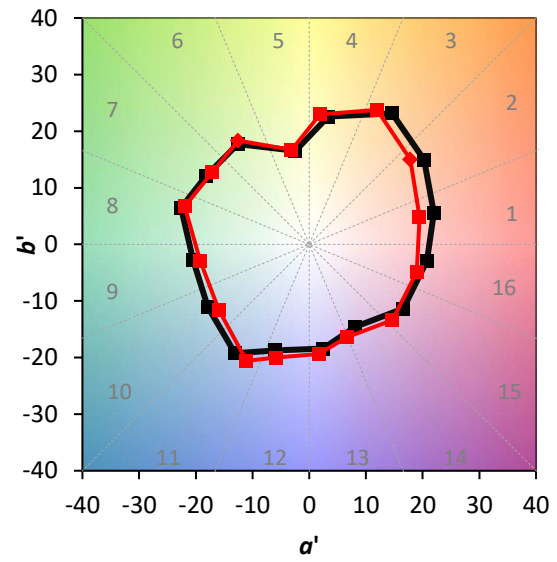
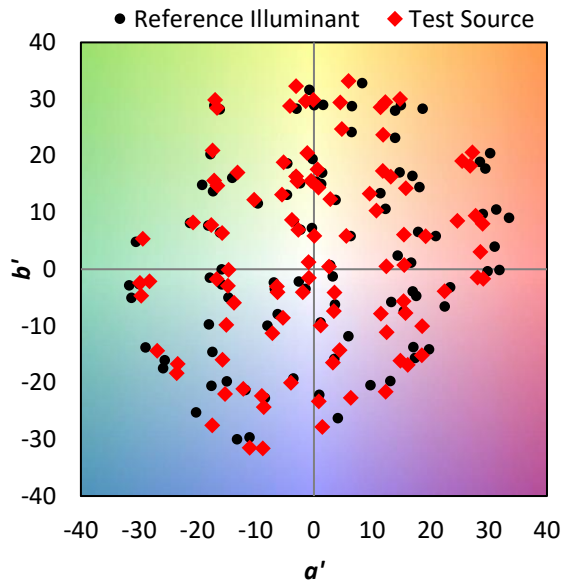
TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $CIE R_a = 83.5$
 $R_9 = 6.3$

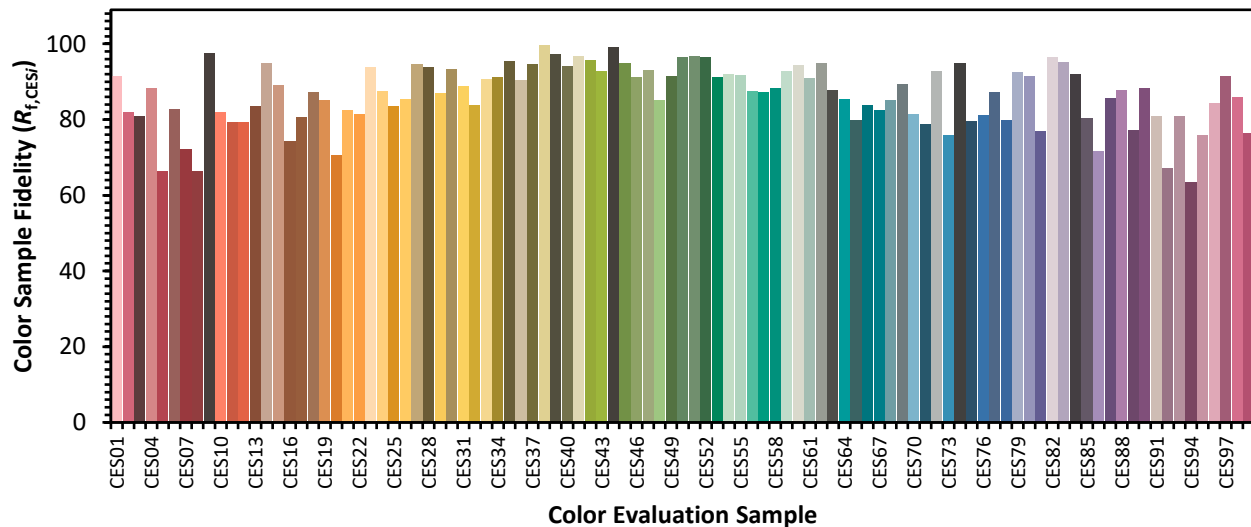


Color Vector Graphics

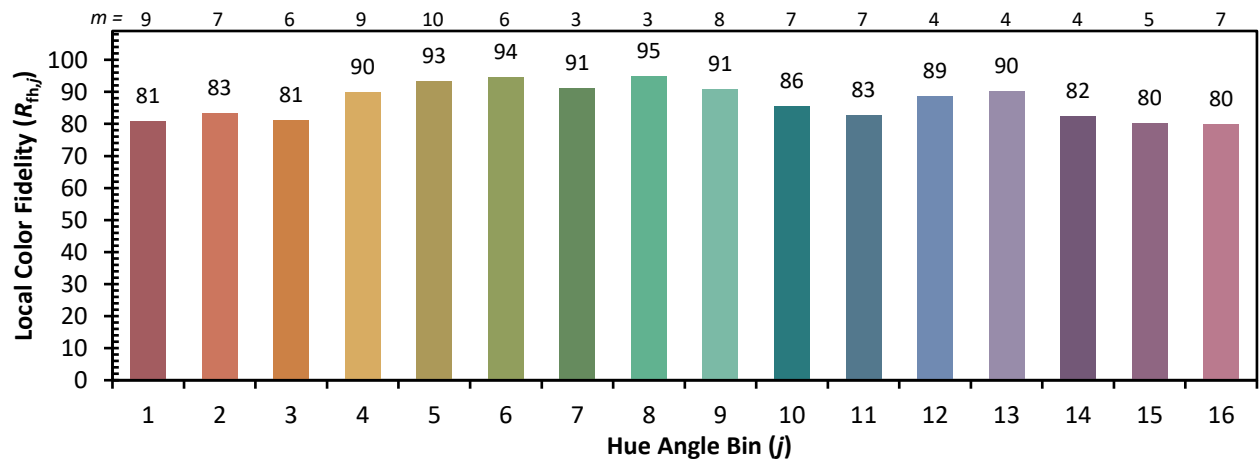
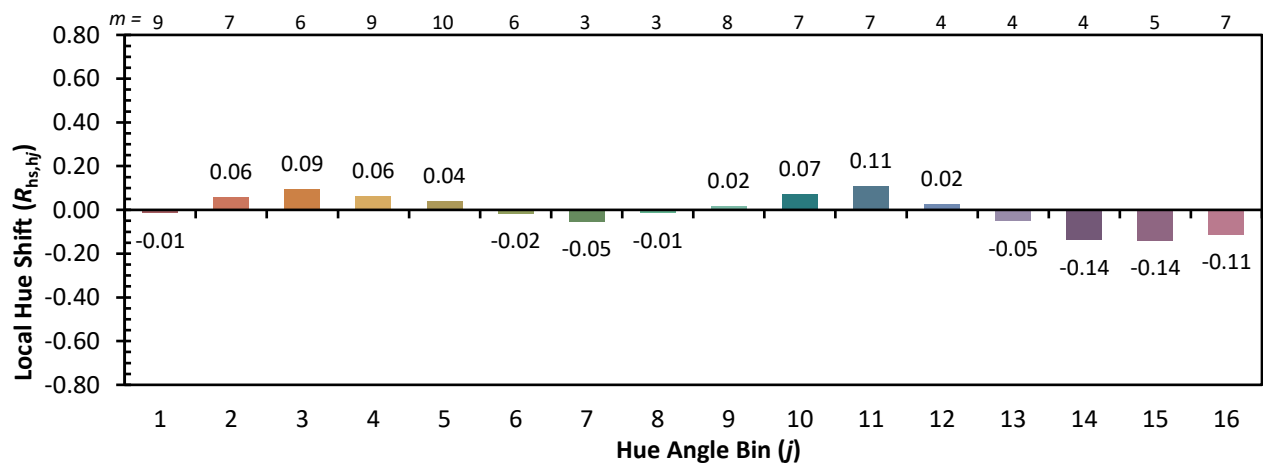
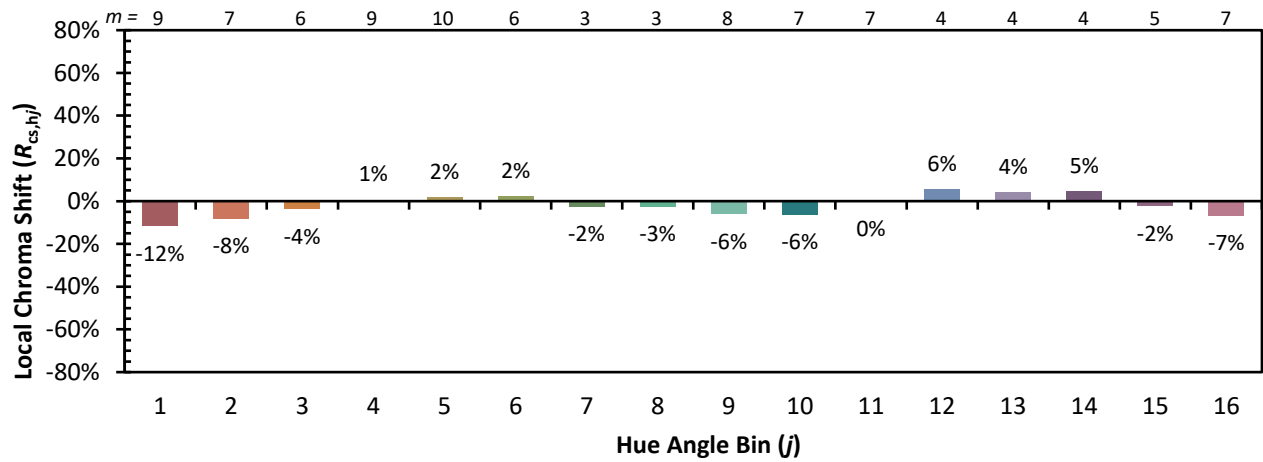


Individual Sample Fidelity Index ($R_{f,i}$)

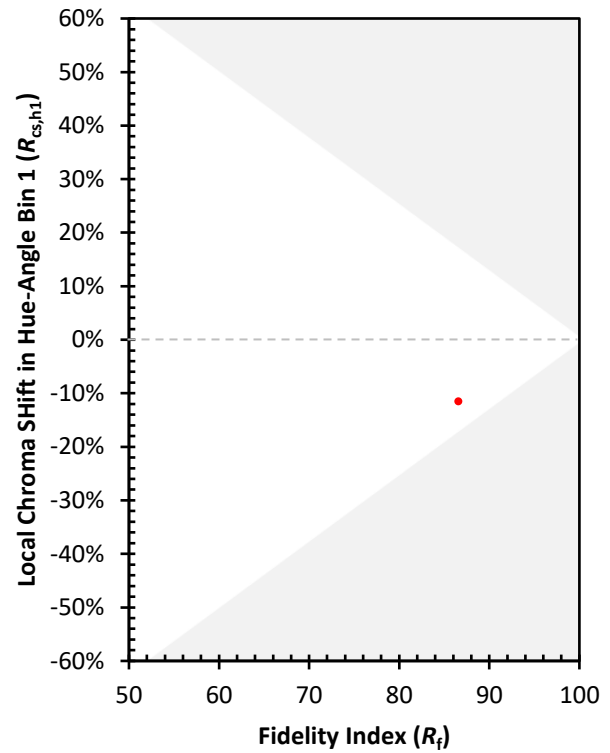
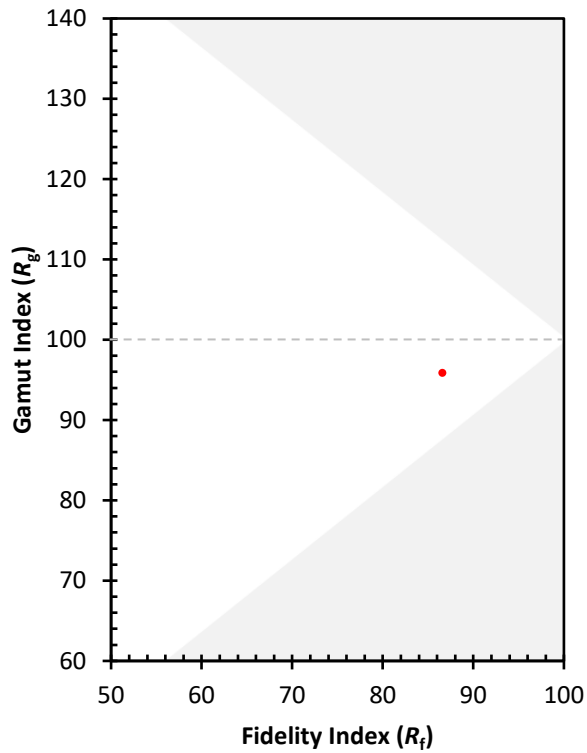
CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)