

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: P1049733

Luminaire Tested: **GALN-SA6A-827-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049733
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16721.4 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

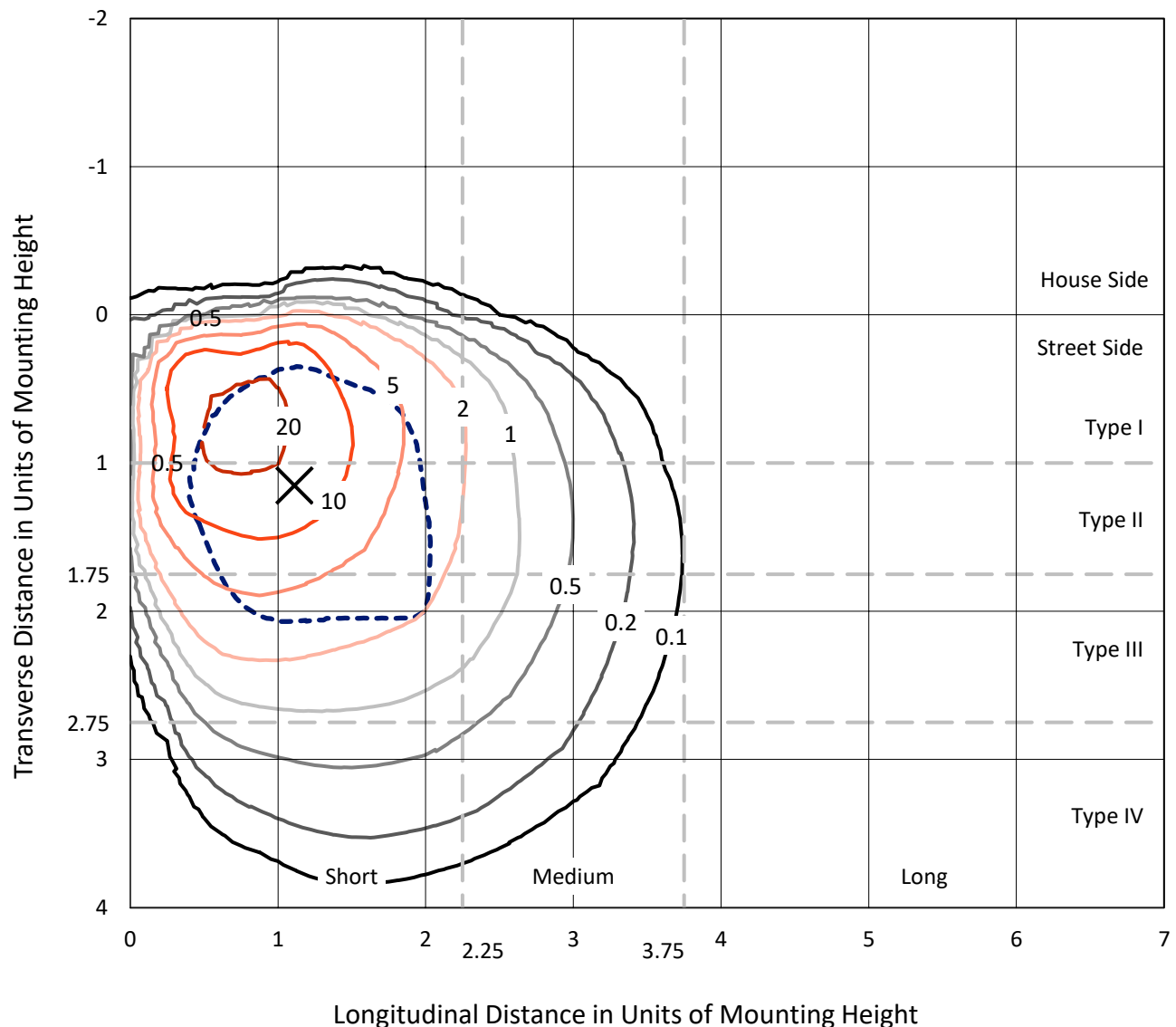
Input Watts (W): 162.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

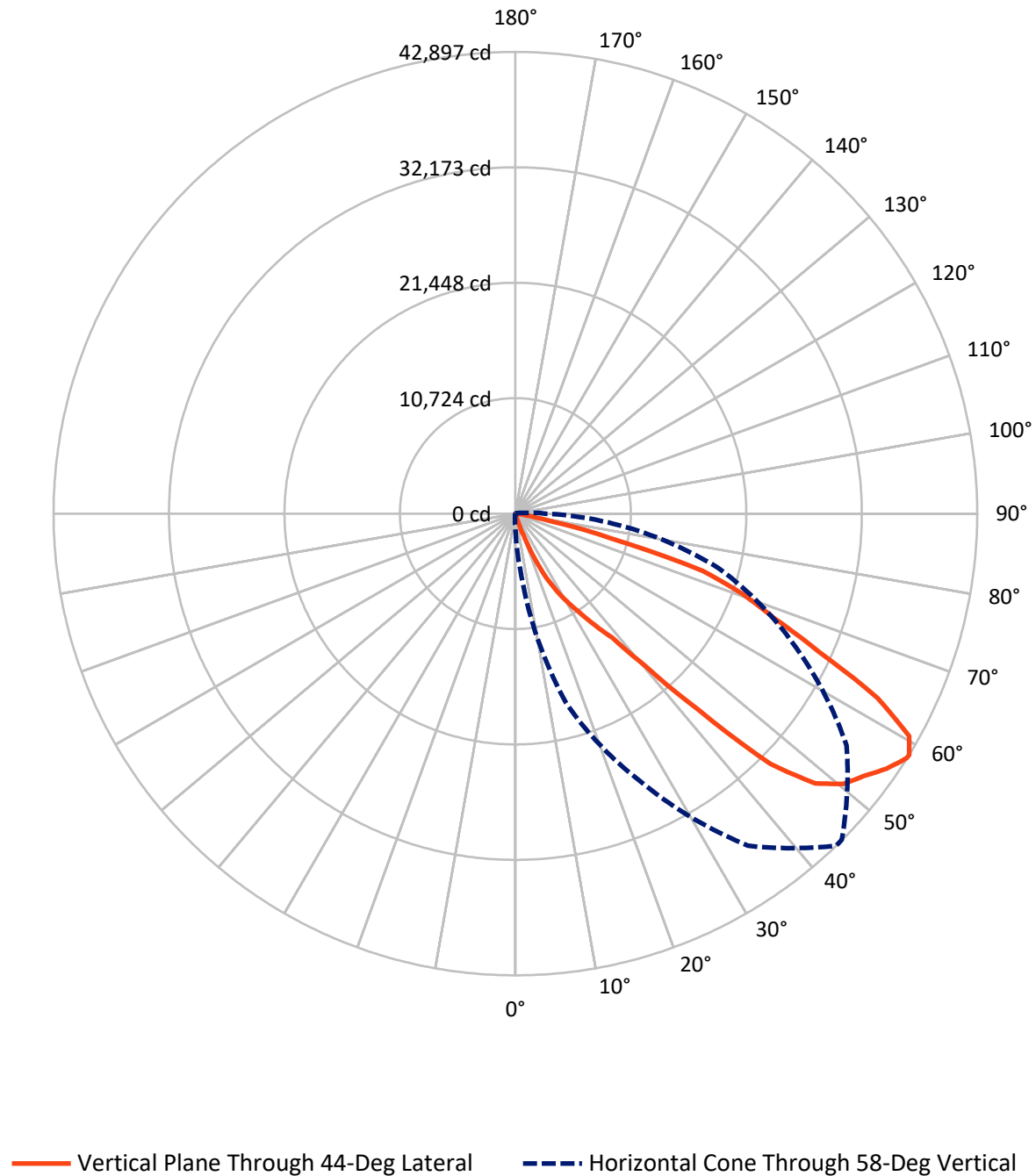
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.1 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	114.2	0.0	114.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	16607.2	0.0	16607.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	16721.4	0.0	16721.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.0
10°-20°	36.7	0.2
20°-30°	396.1	2.4
30°-40°	1171.5	7.0
40°-50°	3491.7	20.9
50°-60°	5540.5	33.1
60°-70°	4621.4	27.6
70°-80°	1425.3	8.5
80°-90°	31.7	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°	16721.4	100.0
0°-180°	16721.4	100.0



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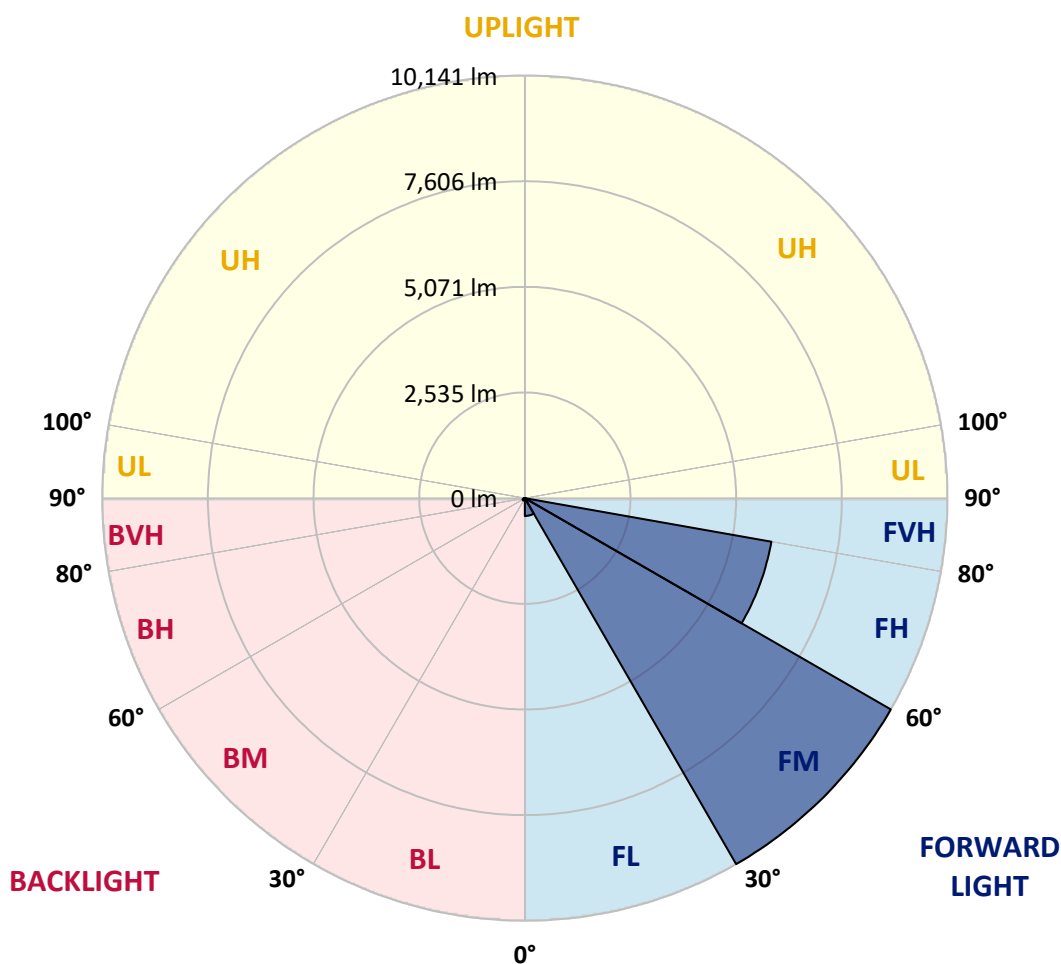
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.2	2.6			
FM	(30°-60°)	10141.2	60.6			
FH	(60°-80°)	6007.7	35.9			G3/7500
FVH	(80°-90°)	30.1	0.2			G1/100
BL	(0°-30°)	11.2	0.1	B0/110		
BM	(30°-60°)	62.5	0.4	B0/220		
BH	(60°-80°)	39.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.5	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°	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
2.5°	94.7	94.7	90.9	85.9	80.8	75.8	74.5	72.0	70.7	69.5
5°	98.5	98.5	97.3	93.5	88.4	84.6	84.6	80.8	78.3	75.8
7.5°	101.1	102.3	104.8	103.6	101.1	97.3	97.3	94.7	90.9	84.6
10°	104.8	108.6	113.7	116.2	117.5	117.5	116.2	114.9	108.6	99.8
12.5°	108.6	116.2	128.8	141.5	149.1	159.2	157.9	155.4	138.9	120.0
15°	116.2	127.6	154.1	190.7	247.6	282.9	296.8	284.2	229.9	161.7
17.5°	125.1	144.0	223.6	399.2	654.3	775.6	848.8	789.5	522.9	306.9
20°	133.9	175.6	415.6	1034.5	1697.7	2094.3	2204.2	2032.4	1304.8	584.8
22.5°	149.1	246.3	842.5	2138.5	3658.1	4253.0	4365.5	3816.0	2464.4	1154.5
25°	180.6	357.5	1452.6	3485.0	5459.4	6463.6	6416.8	5696.8	3997.9	1844.2
27.5°	226.1	520.4	2196.6	4951.6	7184.8	8070.3	8176.4	7285.9	5329.3	2712.0
30°	291.8	721.3	2994.9	6126.3	8568.0	9525.5	9543.1	8622.3	6520.4	3473.7
32.5°	354.9	910.7	3693.5	7261.9	9930.9	10980.6	11058.9	9925.9	7409.7	4266.9
35°	402.9	1034.5	4400.8	8259.8	11305.3	12751.6	12746.5	11401.3	8463.2	4975.6
37.5°	406.7	1158.3	5041.3	9280.4	13045.9	14665.2	14825.7	13342.7	9736.4	5852.2
40°	397.9	1297.3	5852.2	10872.0	16182.3	18666.9	18808.4	16938.9	12290.5	7352.8
42.5°	408.0	1538.5	7168.4	13811.4	21390.3	24958.7	25231.6	23266.1	16985.7	10414.7
45°	461.1	1992.0	9925.9	18728.8	28813.9	33164.2	33073.2	30242.5	22448.8	15075.8
47.5°	636.6	3102.3	14013.5	23514.9	33558.3	37432.4	37510.7	34050.9	25637.0	18659.4
50°	978.9	4746.9	17448.0	26045.0	35598.3	39485.0	39411.8	35413.9	26848.4	20424.0
52.5°	1273.3	5936.8	19170.9	26933.0	35859.8	40499.3	40494.3	35772.6	27036.6	20575.6
55°	1346.5	6026.5	19184.8	26981.0	36445.9	41826.9	41993.6	36655.5	27280.4	19913.7
57.5°	1317.5	5335.6	18384.0	27258.9	37489.2	42853.9	42862.7	37510.7	27899.3	19508.2
58°	1292.2	5226.9	18222.3	27416.8	37668.6	42896.8	42875.3	37549.9	28403.3	19493.0
60°	1150.7	4538.5	17592.0	27819.8	37402.1	42015.1	41814.3	36694.7	28328.8	19337.7
62.5°	904.4	3540.6	16971.8	27353.7	34544.8	37746.9	37830.3	32487.1	25825.2	18432.0
65°	720.0	2638.7	15678.3	23993.7	28446.3	30997.9	31308.6	26417.7	21555.8	15607.6
67.5°	573.5	1907.4	13152.0	19102.7	22509.5	25870.7	26096.8	22179.8	16700.2	11958.3
70°	466.1	1289.7	9078.3	13970.5	18565.9	22345.2	22359.1	18425.7	12464.8	7835.4
72.5°	413.1	893.1	5269.9	10188.6	15054.3	18208.4	17840.8	14952.0	9579.8	4640.8
75°	357.5	592.4	2584.4	6228.6	9127.6	9189.5	9329.7	6936.0	4788.6	2206.7
77.5°	294.3	420.6	1018.1	1701.5	2737.3	3504.0	3634.1	2753.7	1592.8	543.2
80°	202.1	199.6	274.1	521.7	783.2	981.5	915.8	708.6	416.8	208.4
82.5°	87.2	94.7	123.8	149.1	121.3	117.5	112.4	72.0	55.6	42.9
85°	27.8	25.3	26.5	26.5	21.5	16.4	16.4	7.6	0.0	0.0
87.5°	13.9	11.4	11.4	10.1	6.3	2.5	1.3	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°
73.3	0°	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
68.2	2.5°	66.9	66.9	64.4	61.9	60.6	58.1	56.8	55.6	54.3	53.1
73.3	5°	70.7	69.5	65.7	61.9	58.1	54.3	51.8	49.3	46.7	45.5
80.8	7.5°	77.1	74.5	66.9	60.6	55.6	50.5	48.0	44.2	41.7	37.9
89.7	10°	84.6	79.6	69.5	61.9	54.3	48.0	44.2	40.4	36.6	31.6
102.3	12.5°	94.7	85.9	73.3	60.6	51.8	44.2	40.4	35.4	31.6	27.8
118.7	15°	103.6	92.2	74.5	60.6	49.3	40.4	35.4	30.3	26.5	21.5
149.1	17.5°	116.2	97.3	73.3	56.8	45.5	35.4	30.3	26.5	20.2	12.6
221.1	20°	137.7	101.1	70.7	53.1	39.2	29.1	22.7	17.7	8.8	2.5
332.2	22.5°	171.8	111.2	68.2	48.0	34.1	22.7	15.2	6.3	0.0	0.0
505.3	25°	237.5	128.8	68.2	45.5	30.3	16.4	5.1	0.0	0.0	0.0
717.5	27.5°	315.8	152.8	68.2	39.2	24.0	8.8	0.0	0.0	0.0	0.0
977.7	30°	395.4	179.4	68.2	34.1	18.9	1.3	0.0	0.0	0.0	0.0
1203.8	32.5°	471.2	202.1	69.5	29.1	12.6	0.0	0.0	0.0	0.0	0.0
1517.1	35°	548.2	205.9	68.2	25.3	7.6	0.0	0.0	0.0	0.0	0.0
1901.1	37.5°	646.7	198.3	64.4	22.7	3.8	0.0	0.0	0.0	0.0	0.0
2501.1	40°	795.8	202.1	60.6	21.5	1.3	0.0	0.0	0.0	0.0	0.0
3570.9	42.5°	1071.2	218.5	55.6	21.5	0.0	0.0	0.0	0.0	0.0	0.0
5688.0	45°	1851.8	293.1	50.5	22.7	0.0	0.0	0.0	0.0	0.0	0.0
8538.9	47.5°	3063.2	526.7	49.3	22.7	0.0	0.0	0.0	0.0	0.0	0.0
10285.9	50°	3909.5	663.2	51.8	24.0	0.0	0.0	0.0	0.0	0.0	0.0
10504.4	52.5°	3903.2	738.9	54.3	25.3	5.1	0.0	0.0	0.0	0.0	0.0
9682.1	55°	3469.9	752.8	58.1	27.8	16.4	0.0	0.0	0.0	0.0	0.0
8320.4	57.5°	2900.2	687.2	66.9	34.1	30.3	0.0	0.0	0.0	0.0	0.0
8106.9	58°	2799.2	656.8	69.5	35.4	32.8	0.0	0.0	0.0	0.0	0.0
7032.0	60°	2293.9	535.6	88.4	44.2	44.2	0.0	0.0	0.0	0.0	0.0
5765.0	62.5°	1584.0	467.4	101.1	56.8	45.5	0.0	0.0	0.0	0.0	0.0
4250.5	65°	1120.4	421.9	109.9	60.6	36.6	0.0	0.0	0.0	0.0	0.0
3020.2	67.5°	837.5	389.1	121.3	61.9	18.9	0.0	0.0	0.0	0.0	0.0
1894.7	70°	641.7	365.1	149.1	65.7	5.1	0.0	0.0	0.0	0.0	0.0
1129.3	72.5°	522.9	337.3	180.6	68.2	0.0	0.0	0.0	0.0	0.0	0.0
677.1	75°	433.3	304.4	174.3	74.5	0.0	0.0	0.0	0.0	0.0	0.0
361.3	77.5°	288.0	236.2	159.2	74.5	0.0	0.0	0.0	0.0	0.0	0.0
128.8	80°	101.1	93.5	123.8	65.7	0.0	0.0	0.0	0.0	0.0	0.0
26.5	82.5°	15.2	12.6	17.7	22.7	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°
73.3	0°	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
51.8	2.5°	51.8	51.8	50.5	51.8	51.8	54.3	60.6	69.5	79.6	83.4
44.2	5°	42.9	41.7	40.4	40.4	40.4	44.2	49.3	59.4	70.7	75.8
36.6	7.5°	35.4	34.1	32.8	31.6	31.6	34.1	40.4	51.8	63.2	68.2
30.3	10°	29.1	26.5	25.3	24.0	24.0	26.5	32.8	44.2	56.8	61.9
25.3	12.5°	24.0	20.2	17.7	16.4	15.2	18.9	25.3	35.4	49.3	55.6
18.9	15°	16.4	12.6	8.8	7.6	6.3	10.1	16.4	27.8	41.7	49.3
10.1	17.5°	8.8	3.8	1.3	0.0	0.0	2.5	7.6	20.2	34.1	40.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	25.3	31.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	15.2	21.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	11.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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	3.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.1
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°
73.3	0°	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
87.2	2.5°	89.7	88.4	85.9	83.4	83.4	83.4	87.2	90.9	94.7	94.7
78.3	5°	83.4	83.4	82.1	79.6	79.6	80.8	85.9	92.2	97.3	98.5
72.0	7.5°	77.1	79.6	77.1	75.8	77.1	78.3	83.4	90.9	98.5	101.1
66.9	10°	73.3	74.5	74.5	73.3	73.3	75.8	80.8	90.9	101.1	104.8
60.6	12.5°	68.2	70.7	69.5	69.5	69.5	72.0	78.3	89.7	103.6	108.6
54.3	15°	63.2	66.9	66.9	65.7	65.7	66.9	75.8	88.4	107.4	116.2
46.7	17.5°	58.1	61.9	63.2	60.6	60.6	63.2	72.0	88.4	109.9	125.1
37.9	20°	48.0	54.3	58.1	54.3	54.3	56.8	65.7	83.4	111.2	133.9
27.8	22.5°	37.9	44.2	49.3	48.0	48.0	49.3	60.6	79.6	112.4	149.1
16.4	25°	27.8	34.1	37.9	40.4	40.4	44.2	55.6	77.1	117.5	180.6
7.6	27.5°	16.4	24.0	29.1	31.6	32.8	37.9	51.8	74.5	126.3	226.1
0.0	30°	7.6	13.9	20.2	25.3	25.3	34.1	48.0	72.0	137.7	291.8
0.0	32.5°	0.0	6.3	10.1	17.7	18.9	27.8	44.2	69.5	154.1	354.9
0.0	35°	0.0	0.0	5.1	13.9	13.9	22.7	40.4	66.9	179.4	402.9
0.0	37.5°	0.0	0.0	0.0	10.1	11.4	20.2	39.2	65.7	184.4	406.7
0.0	40°	0.0	0.0	0.0	7.6	8.8	18.9	39.2	66.9	166.7	397.9
0.0	42.5°	0.0	0.0	0.0	5.1	6.3	18.9	39.2	69.5	150.3	408.0
0.0	45°	0.0	0.0	0.0	3.8	5.1	20.2	37.9	68.2	141.5	461.1
0.0	47.5°	0.0	0.0	0.0	5.1	7.6	20.2	36.6	66.9	142.7	636.6
0.0	50°	0.0	0.0	0.0	6.3	8.8	20.2	37.9	64.4	156.6	978.9
0.0	52.5°	0.0	0.0	0.0	5.1	7.6	22.7	41.7	63.2	170.5	1273.3
0.0	55°	0.0	0.0	0.0	1.3	3.8	29.1	45.5	63.2	192.0	1346.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	32.8	51.8	66.9	227.4	1317.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	32.8	53.1	66.9	229.9	1292.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	32.8	58.1	74.5	247.6	1150.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	27.8	69.5	93.5	257.7	904.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	22.7	82.1	102.3	265.3	720.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	21.5	84.6	103.6	269.1	573.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	22.7	83.4	111.2	281.7	466.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	25.3	75.8	122.5	281.7	413.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	26.5	70.7	137.7	256.4	357.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	25.3	69.5	160.4	228.6	294.3
0.0	80°	2.5	3.8	3.8	2.5	2.5	21.5	68.2	162.9	194.5	202.1
1.3	82.5°	7.6	10.1	8.8	6.3	6.3	18.9	60.6	136.4	101.1	87.2
7.6	85°	13.9	16.4	16.4	13.9	13.9	17.7	37.9	49.3	34.1	27.8
13.9	87.5°	18.9	21.5	21.5	18.9	18.9	17.7	16.4	15.2	13.9	13.9
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

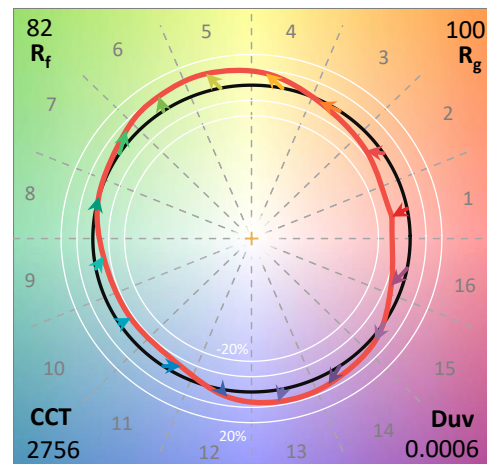
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

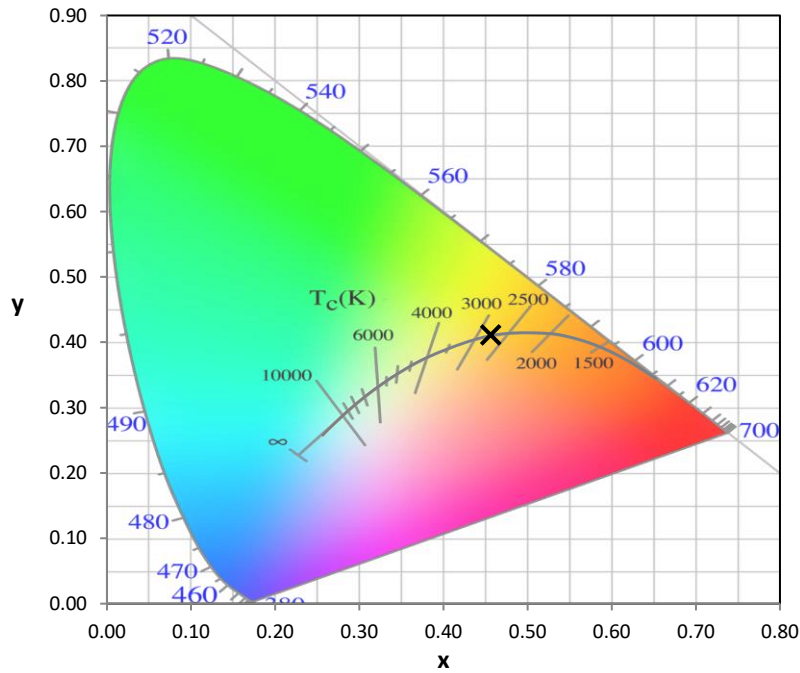
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

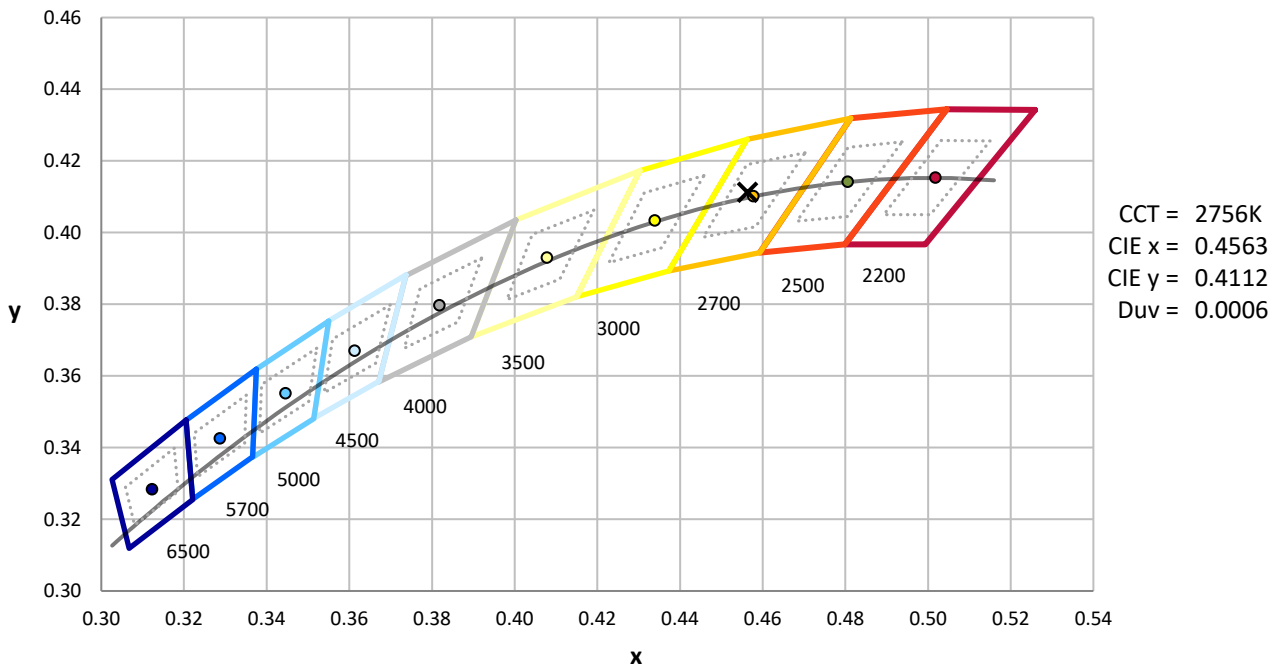
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



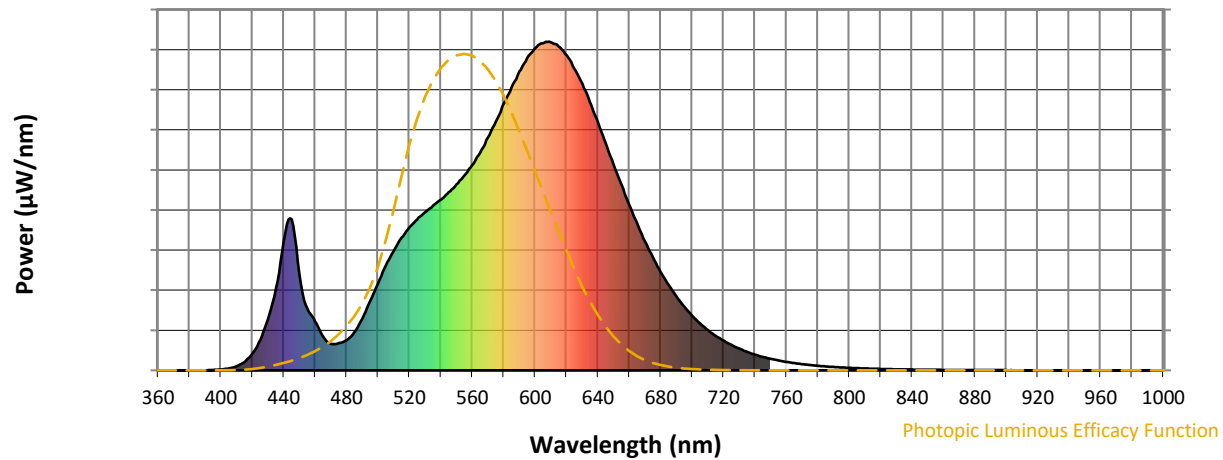
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

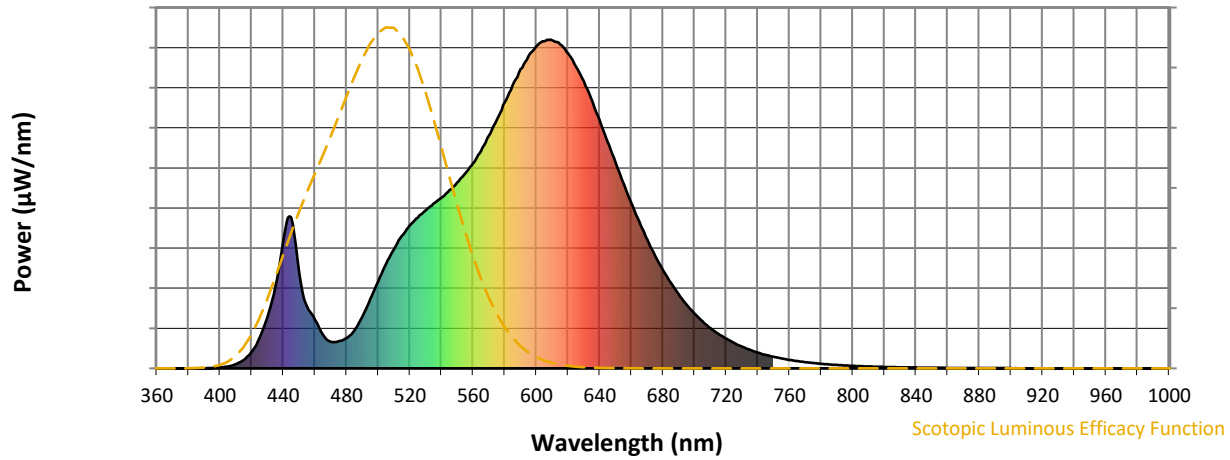


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength



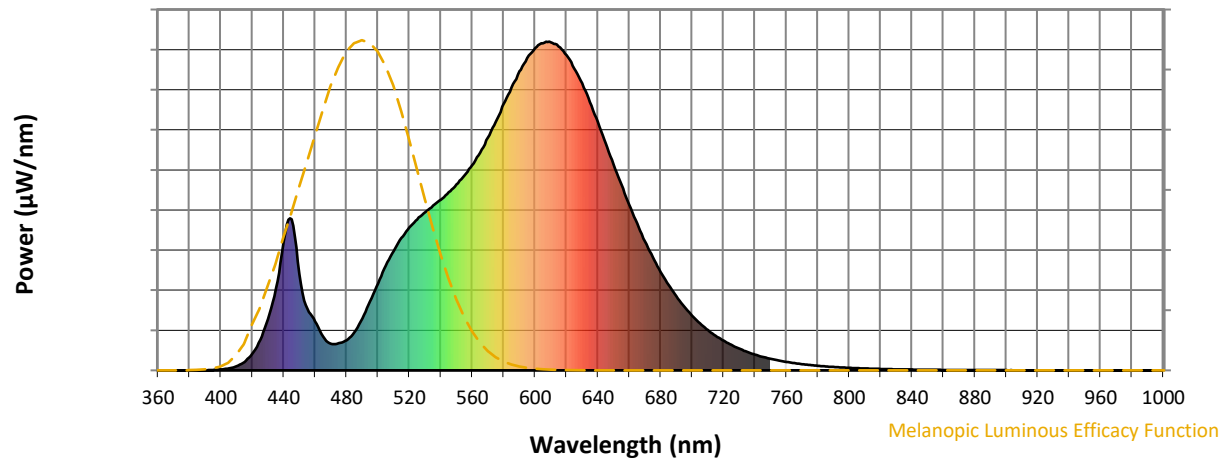
Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.16

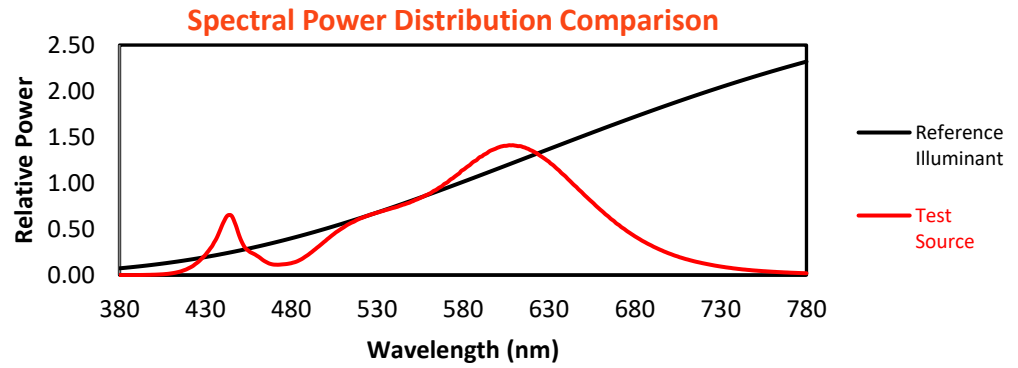
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

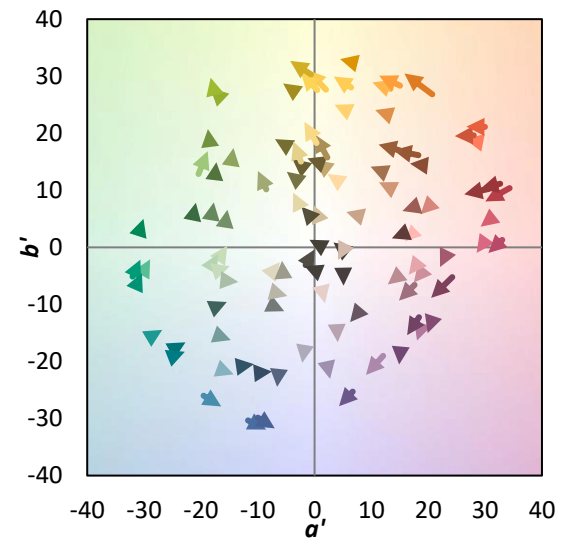
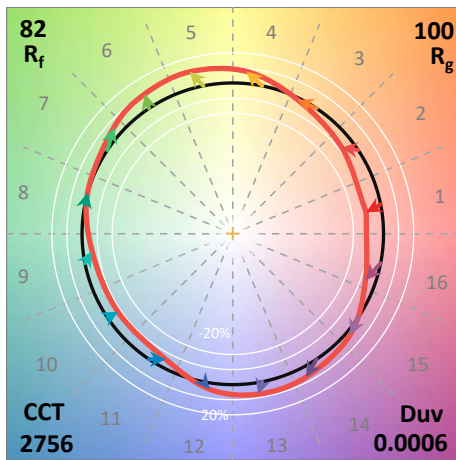
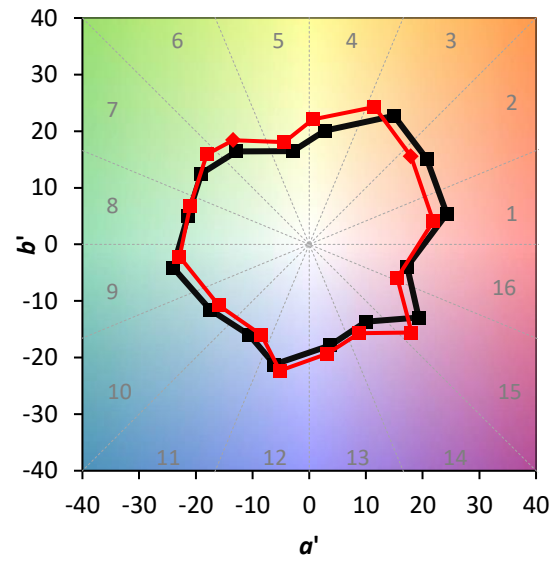
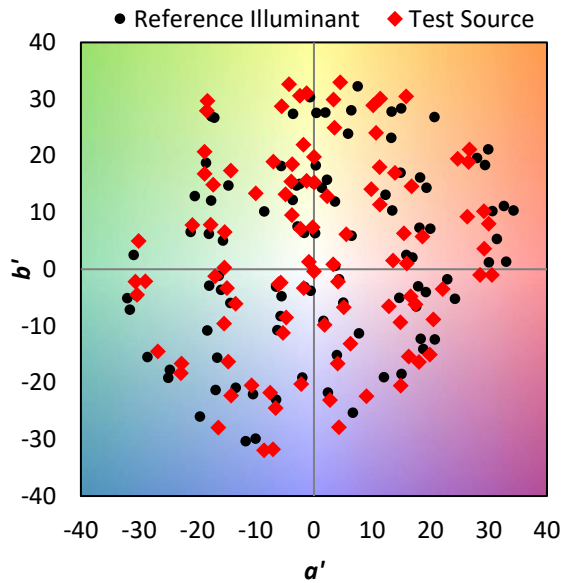
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

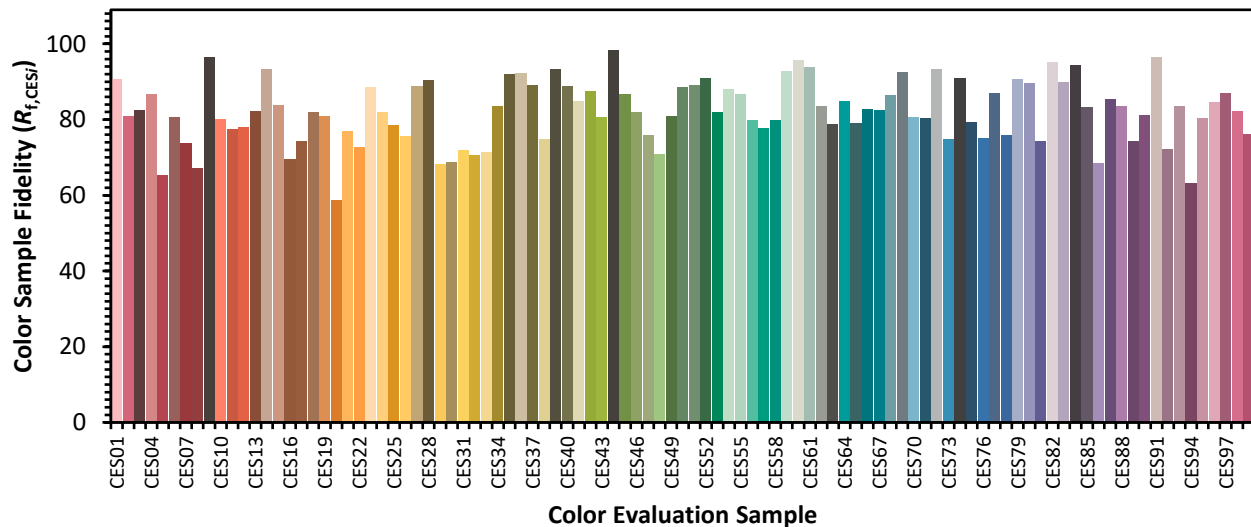


Color Vector Graphics

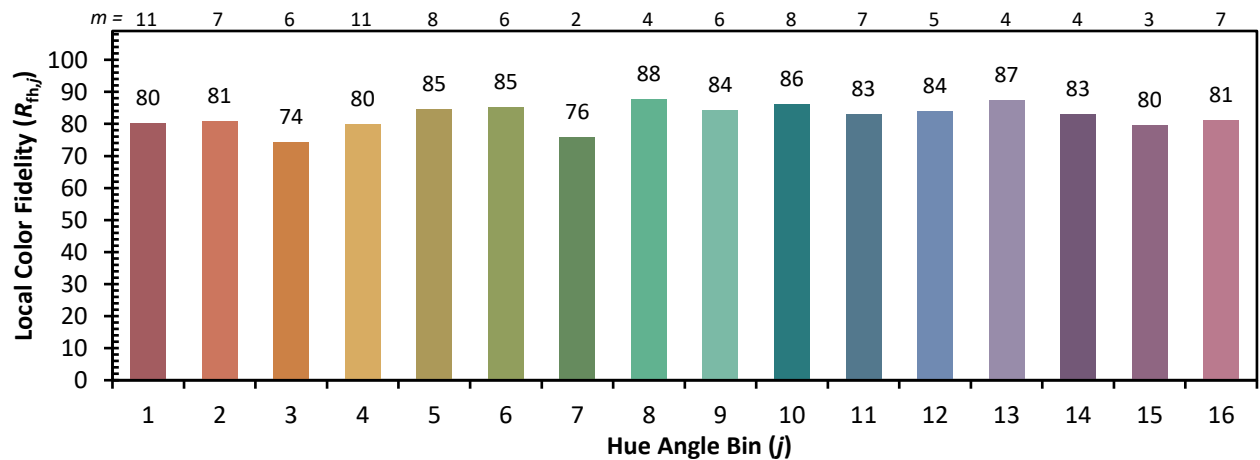
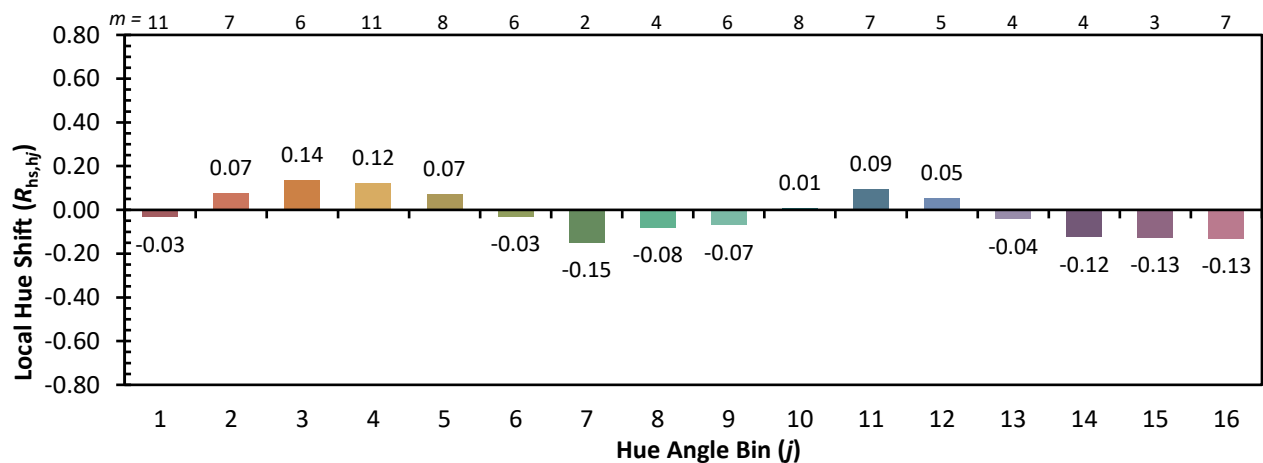
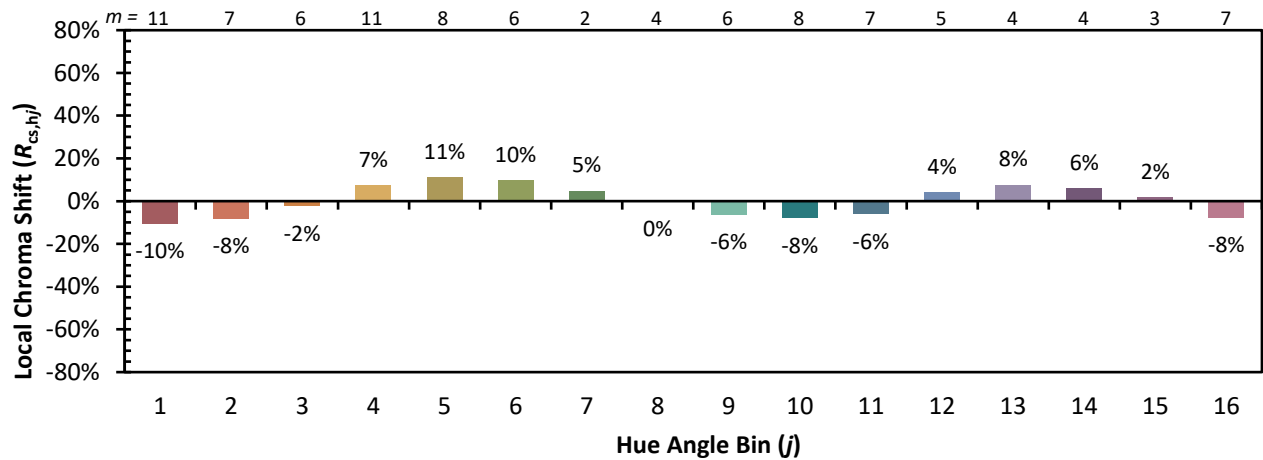


Individual Sample Fidelity Index ($R_{f,i}$)

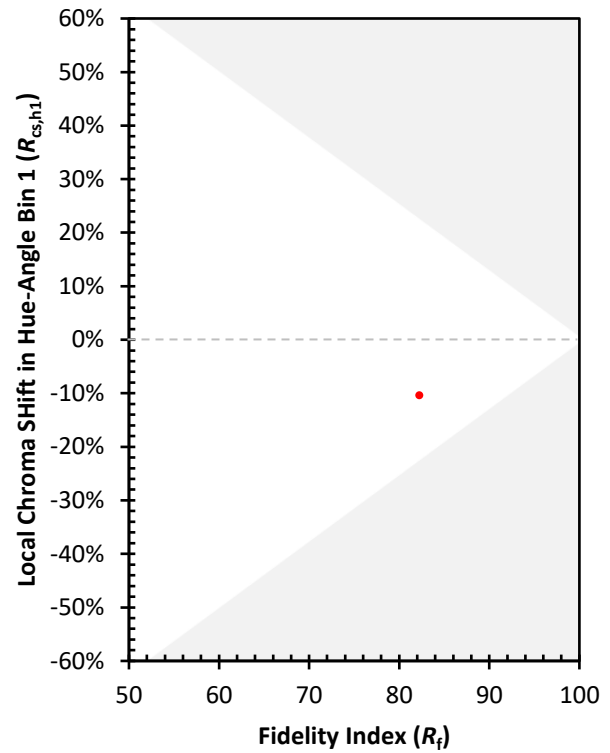
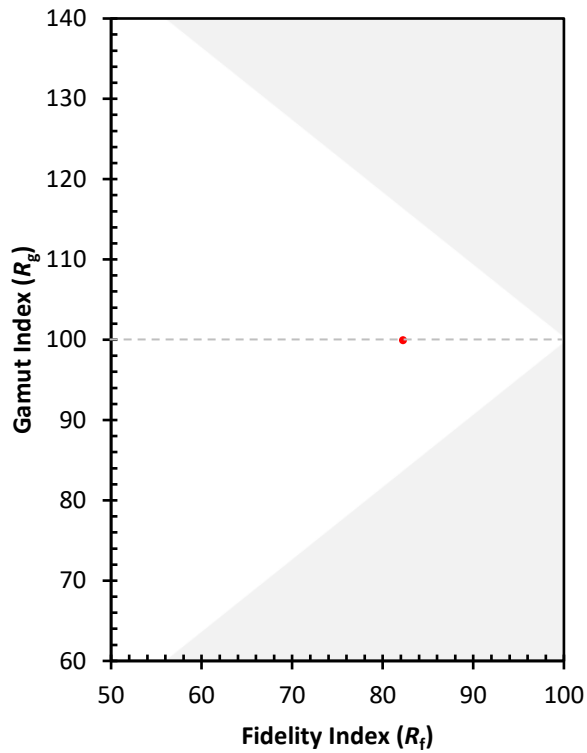
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)