

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: P1049886

Luminaire Tested: **GALN-SA8B-850-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049886
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-850-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 8xLight Square PACKAGE
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29702.2 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 282.8
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

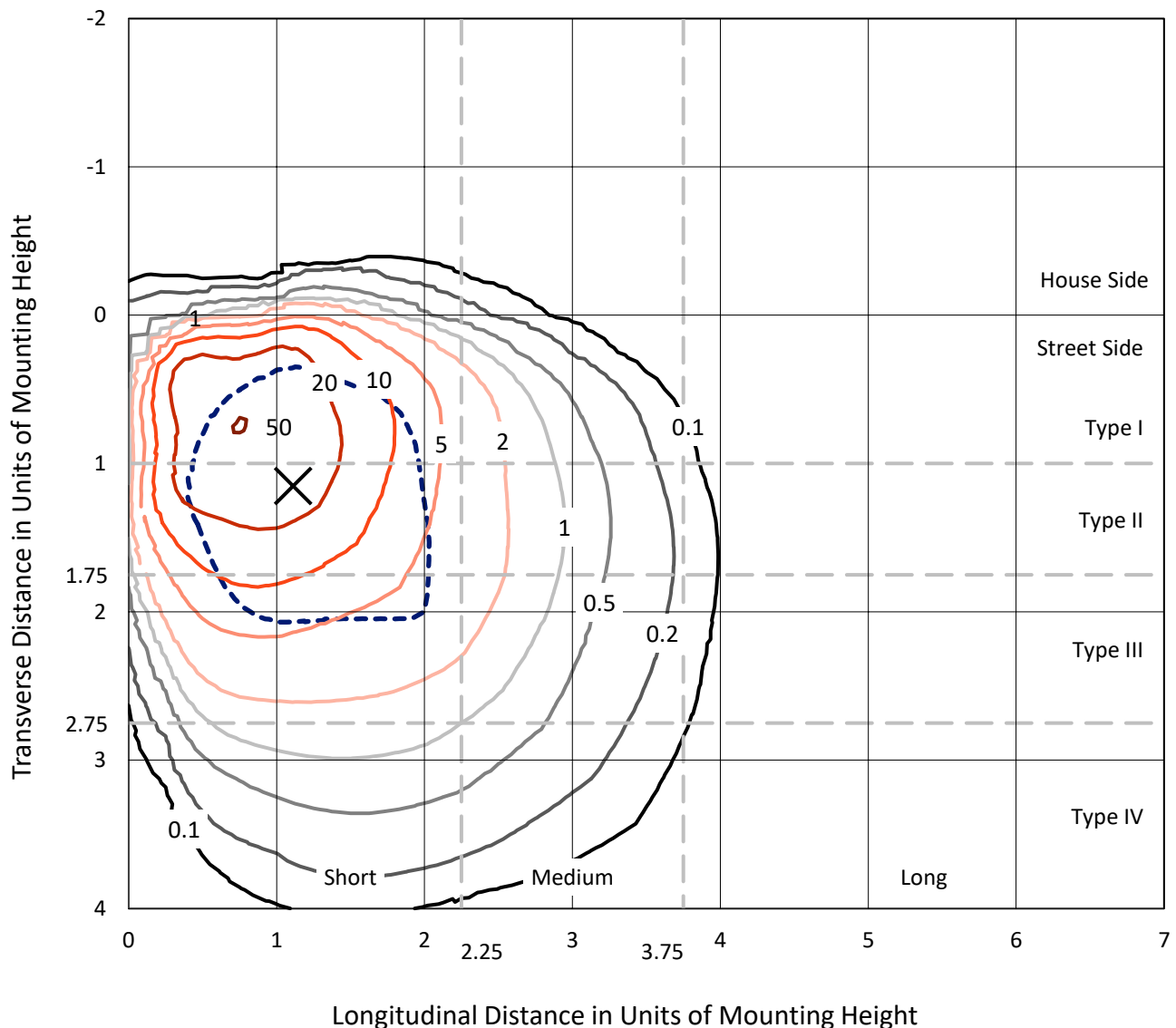
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

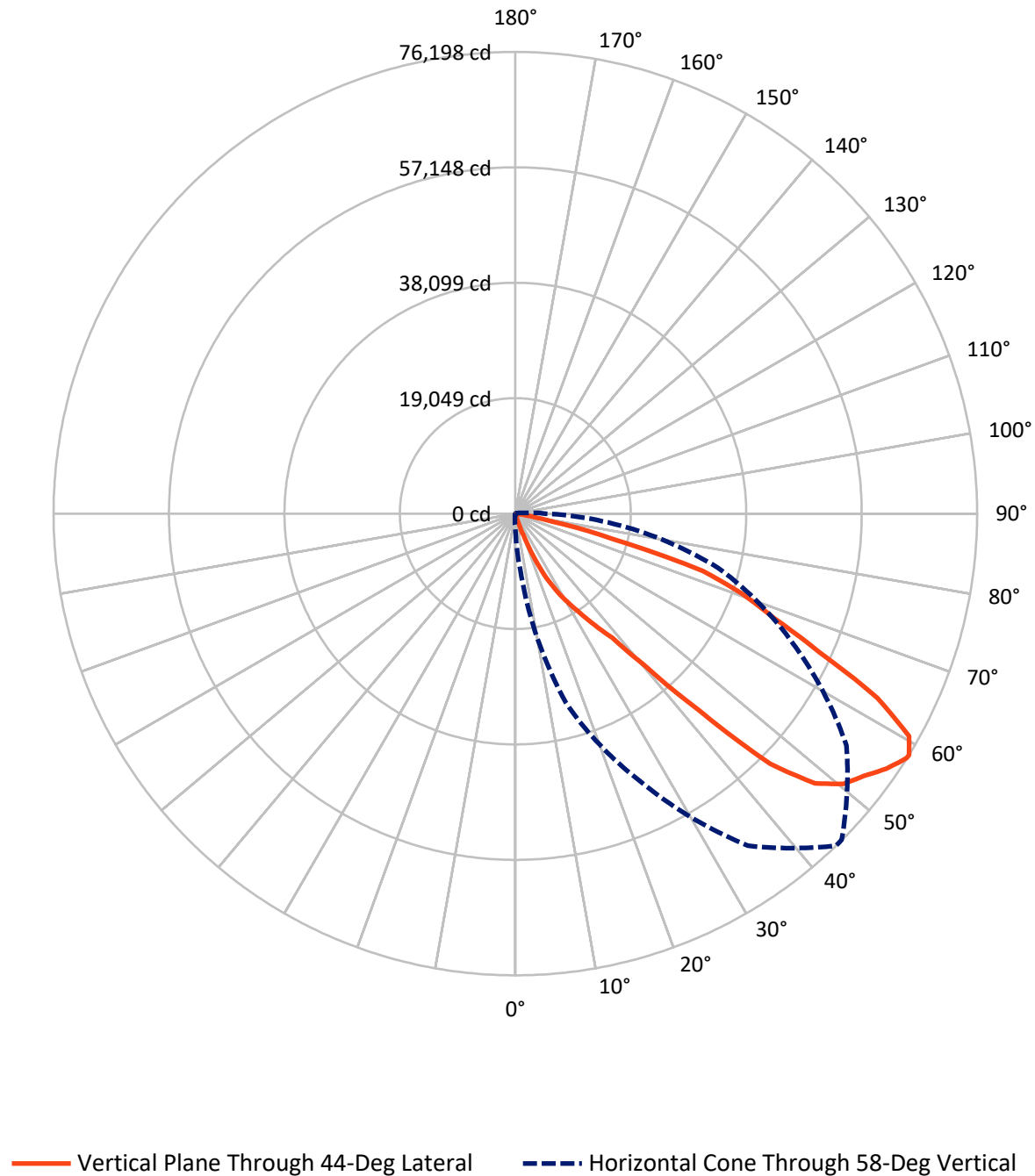


Based on 20 foot mounting height. Maximum calculated value = 51.7 fc

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	202.8	0.0	202.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	29499.4	0.0	29499.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	29702.2	0.0	29702.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.0
10°-20°	65.1	0.2
20°-30°	703.6	2.4
30°-40°	2080.9	7.0
40°-50°	6202.3	20.9
50°-60°	9841.5	33.1
60°-70°	8209.0	27.6
70°-80°	2531.8	8.5
80°-90°	56.2	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°	29702.2	100.0
0°-180°	29702.2	100.0



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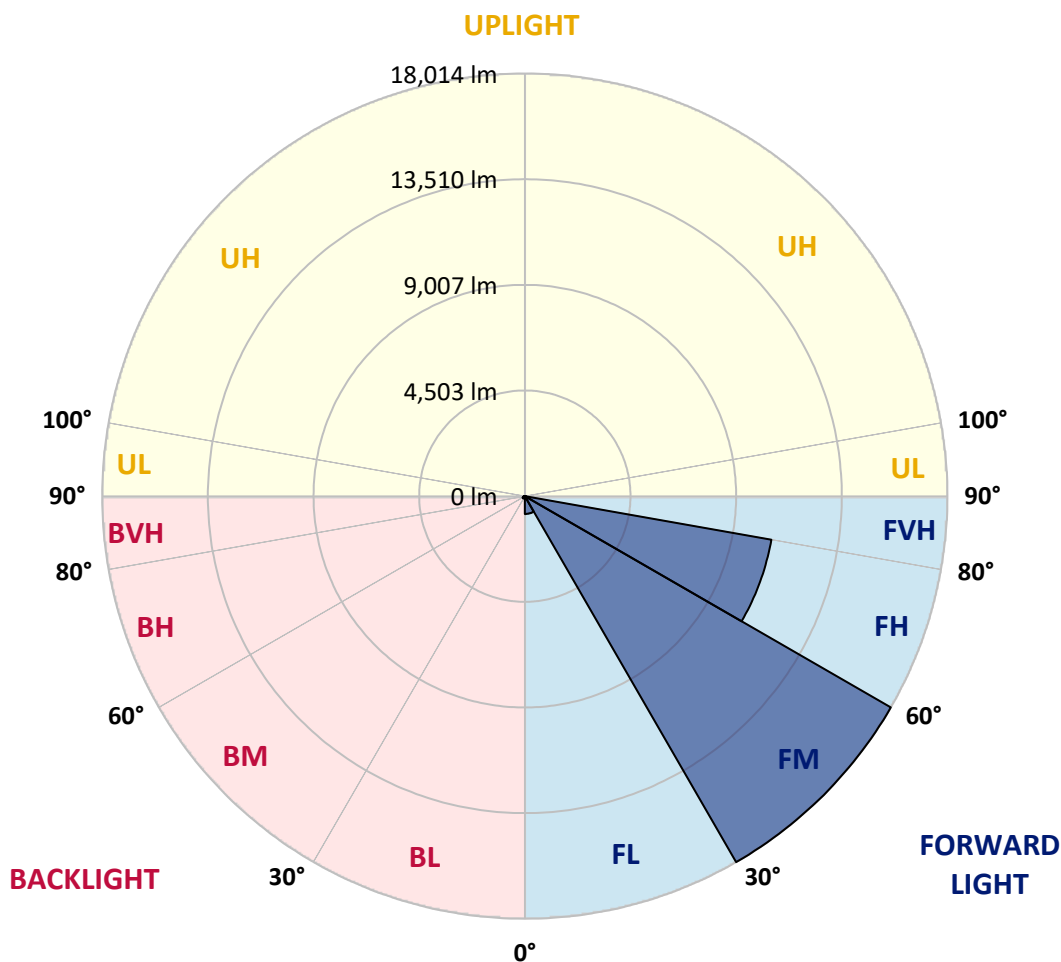
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	760.6	2.6			
FM	(30°-60°)	18013.7	60.6			
FH	(60°-80°)	10671.6	35.9			G4/12000
FVH	(80°-90°)	53.5	0.2			G1/100
BL	(0°-30°)	19.8	0.1	B0/110		
BM	(30°-60°)	111.0	0.4	B0/220		
BH	(60°-80°)	69.2	0.2	B0/110		G0/110
BVH	(80°-90°)	2.7	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1
2.5°	168.3	168.3	161.5	152.6	143.6	134.6	132.4	127.9	125.6	123.4
5°	175.0	175.0	172.8	166.0	157.1	150.3	150.3	143.6	139.1	134.6
7.5°	179.5	181.7	186.2	184.0	179.5	172.8	172.8	168.3	161.5	150.3
10°	186.2	193.0	201.9	206.4	208.7	208.7	206.4	204.2	193.0	177.3
12.5°	193.0	206.4	228.9	251.3	264.8	282.7	280.5	276.0	246.8	213.2
15°	206.4	226.6	273.7	338.8	439.8	502.6	527.3	504.8	408.4	287.2
17.5°	222.1	255.8	397.1	709.0	1162.3	1377.7	1507.8	1402.3	928.9	545.2
20°	237.8	311.9	738.2	1837.6	3015.6	3720.1	3915.3	3610.2	2317.8	1038.9
22.5°	264.8	437.5	1496.6	3798.7	6497.9	7554.7	7754.4	6778.4	4377.5	2050.8
25°	320.9	635.0	2580.3	6190.5	9697.5	11481.2	11398.2	10119.3	7101.5	3275.9
27.5°	401.6	924.4	3901.9	8795.5	12762.4	14335.3	14523.8	12941.9	9466.4	4817.3
30°	518.3	1281.2	5319.9	10882.2	15219.3	16920.1	16951.5	15315.8	11582.2	6170.3
32.5°	630.5	1617.7	6560.7	12899.3	17640.3	19504.9	19644.0	17631.4	13161.8	7579.4
35°	715.8	1837.6	7817.2	14671.9	20081.5	22650.6	22641.6	20252.1	15033.1	8838.1
37.5°	722.5	2057.5	8954.8	16484.8	23173.4	26049.9	26334.8	23700.7	17294.8	10395.3
40°	706.8	2304.3	10395.3	19311.9	28744.6	33158.1	33409.4	30088.6	21831.6	13060.8
42.5°	724.7	2732.9	12733.3	24533.1	37995.6	44334.2	44818.8	41327.6	30171.7	18499.7
45°	819.0	3538.4	17631.4	33268.0	51182.1	58909.5	58748.0	53719.8	39875.9	26779.1
47.5°	1130.8	5510.6	24892.1	41769.6	59609.6	66491.2	66630.3	60484.7	45539.1	33144.6
50°	1738.9	8432.0	30992.9	46263.8	63233.2	70137.3	70007.1	62905.7	47690.8	36279.1
52.5°	2261.7	10545.6	34053.3	47841.2	63697.7	71939.0	71930.0	63542.9	48025.1	36548.4
55°	2391.8	10704.9	34078.0	47926.4	64738.8	74297.2	74593.3	65111.3	48458.2	35372.7
57.5°	2340.2	9477.6	32655.5	48420.0	66592.1	76121.3	76137.0	66630.3	49557.6	34652.4
58°	2295.4	9284.6	32368.3	48700.5	66910.7	76197.6	76159.5	66699.8	50452.9	34625.5
60°	2044.1	8061.8	31248.6	49416.3	66437.3	74631.5	74274.7	65180.8	50320.5	34349.5
62.5°	1606.5	6289.2	30147.0	48588.3	61362.0	67049.9	67197.9	57706.9	45873.4	32740.7
65°	1278.9	4687.2	27849.4	42620.0	50529.2	55061.5	55613.5	46925.7	38289.5	27723.7
67.5°	1018.7	3388.1	23361.9	33932.2	39983.6	45954.2	46355.8	39397.9	29664.6	21241.5
70°	827.9	2290.9	16125.8	24815.8	32978.6	39691.9	39716.5	32729.5	22141.3	13918.0
72.5°	733.7	1586.3	9360.9	18098.1	26741.0	32343.6	31690.7	26559.2	17016.6	8243.5
75°	635.0	1052.3	4590.7	11063.9	16213.3	16323.3	16572.3	12320.4	8506.0	3919.8
77.5°	522.8	747.2	1808.5	3022.3	4862.2	6224.2	6455.3	4891.4	2829.4	964.8
80°	359.0	354.5	486.9	926.7	1391.1	1743.4	1626.7	1258.7	740.4	370.2
82.5°	154.8	168.3	219.9	264.8	215.4	208.7	199.7	127.9	98.7	76.3
85°	49.4	44.9	47.1	47.1	38.1	29.2	29.2	13.5	0.0	0.0
87.5°	24.7	20.2	20.2	17.9	11.2	4.5	2.2	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°
130.1	0°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1
121.2	2.5°	118.9	118.9	114.4	109.9	107.7	103.2	101.0	98.7	96.5	94.2
130.1	5°	125.6	123.4	116.7	109.9	103.2	96.5	92.0	87.5	83.0	80.8
143.6	7.5°	136.9	132.4	118.9	107.7	98.7	89.7	85.3	78.5	74.0	67.3
159.3	10°	150.3	141.4	123.4	109.9	96.5	85.3	78.5	71.8	65.1	56.1
181.7	12.5°	168.3	152.6	130.1	107.7	92.0	78.5	71.8	62.8	56.1	49.4
210.9	15°	184.0	163.8	132.4	107.7	87.5	71.8	62.8	53.8	47.1	38.1
264.8	17.5°	206.4	172.8	130.1	101.0	80.8	62.8	53.8	47.1	35.9	22.4
392.7	20°	244.6	179.5	125.6	94.2	69.6	51.6	40.4	31.4	15.7	4.5
590.1	22.5°	305.1	197.4	121.2	85.3	60.6	40.4	26.9	11.2	0.0	0.0
897.5	25°	421.8	228.9	121.2	80.8	53.8	29.2	9.0	0.0	0.0	0.0
1274.4	27.5°	560.9	271.5	121.2	69.6	42.6	15.7	0.0	0.0	0.0	0.0
1736.7	30°	702.3	318.6	121.2	60.6	33.7	2.2	0.0	0.0	0.0	0.0
2138.3	32.5°	836.9	359.0	123.4	51.6	22.4	0.0	0.0	0.0	0.0	0.0
2694.7	35°	973.8	365.7	121.2	44.9	13.5	0.0	0.0	0.0	0.0	0.0
3376.8	37.5°	1148.8	352.3	114.4	40.4	6.7	0.0	0.0	0.0	0.0	0.0
4442.6	40°	1413.6	359.0	107.7	38.1	2.2	0.0	0.0	0.0	0.0	0.0
6343.1	42.5°	1902.7	388.2	98.7	38.1	0.0	0.0	0.0	0.0	0.0	0.0
10103.6	45°	3289.3	520.5	89.7	40.4	0.0	0.0	0.0	0.0	0.0	0.0
15167.7	47.5°	5441.1	935.6	87.5	40.4	0.0	0.0	0.0	0.0	0.0	0.0
18270.8	50°	6944.4	1178.0	92.0	42.6	0.0	0.0	0.0	0.0	0.0	0.0
18659.0	52.5°	6933.2	1312.6	96.5	44.9	9.0	0.0	0.0	0.0	0.0	0.0
17198.3	55°	6163.6	1337.3	103.2	49.4	29.2	0.0	0.0	0.0	0.0	0.0
14779.6	57.5°	5151.6	1220.6	118.9	60.6	53.8	0.0	0.0	0.0	0.0	0.0
14400.4	58°	4972.1	1166.7	123.4	62.8	58.3	0.0	0.0	0.0	0.0	0.0
12490.9	60°	4074.6	951.3	157.1	78.5	78.5	0.0	0.0	0.0	0.0	0.0
10240.5	62.5°	2813.7	830.2	179.5	101.0	80.8	0.0	0.0	0.0	0.0	0.0
7550.2	65°	1990.2	749.4	195.2	107.7	65.1	0.0	0.0	0.0	0.0	0.0
5364.8	67.5°	1487.6	691.1	215.4	109.9	33.7	0.0	0.0	0.0	0.0	0.0
3365.6	70°	1139.8	648.4	264.8	116.7	9.0	0.0	0.0	0.0	0.0	0.0
2005.9	72.5°	928.9	599.1	320.9	121.2	0.0	0.0	0.0	0.0	0.0	0.0
1202.6	75°	769.6	540.7	309.6	132.4	0.0	0.0	0.0	0.0	0.0	0.0
641.7	77.5°	511.6	419.6	282.7	132.4	0.0	0.0	0.0	0.0	0.0	0.0
228.9	80°	179.5	166.0	219.9	116.7	0.0	0.0	0.0	0.0	0.0	0.0
47.1	82.5°	26.9	22.4	31.4	40.4	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°
130.1	0°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1
92.0	2.5°	92.0	92.0	89.7	92.0	92.0	96.5	107.7	123.4	141.4	148.1
78.5	5°	76.3	74.0	71.8	71.8	71.8	78.5	87.5	105.5	125.6	134.6
65.1	7.5°	62.8	60.6	58.3	56.1	56.1	60.6	71.8	92.0	112.2	121.2
53.8	10°	51.6	47.1	44.9	42.6	42.6	47.1	58.3	78.5	101.0	109.9
44.9	12.5°	42.6	35.9	31.4	29.2	26.9	33.7	44.9	62.8	87.5	98.7
33.7	15°	29.2	22.4	15.7	13.5	11.2	17.9	29.2	49.4	74.0	87.5
17.9	17.5°	15.7	6.7	2.2	0.0	0.0	4.5	13.5	35.9	60.6	71.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	44.9	56.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	26.9	38.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	20.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
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	6.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	17.9
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°
130.1	0°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1
154.8	2.5°	159.3	157.1	152.6	148.1	148.1	148.1	154.8	161.5	168.3	168.3
139.1	5°	148.1	148.1	145.8	141.4	141.4	143.6	152.6	163.8	172.8	175.0
127.9	7.5°	136.9	141.4	136.9	134.6	136.9	139.1	148.1	161.5	175.0	179.5
118.9	10°	130.1	132.4	132.4	130.1	130.1	134.6	143.6	161.5	179.5	186.2
107.7	12.5°	121.2	125.6	123.4	123.4	123.4	127.9	139.1	159.3	184.0	193.0
96.5	15°	112.2	118.9	118.9	116.7	116.7	118.9	134.6	157.1	190.7	206.4
83.0	17.5°	103.2	109.9	112.2	107.7	107.7	112.2	127.9	157.1	195.2	222.1
67.3	20°	85.3	96.5	103.2	96.5	96.5	101.0	116.7	148.1	197.4	237.8
49.4	22.5°	67.3	78.5	87.5	85.3	85.3	87.5	107.7	141.4	199.7	264.8
29.2	25°	49.4	60.6	67.3	71.8	71.8	78.5	98.7	136.9	208.7	320.9
13.5	27.5°	29.2	42.6	51.6	56.1	58.3	67.3	92.0	132.4	224.4	401.6
0.0	30°	13.5	24.7	35.9	44.9	44.9	60.6	85.3	127.9	244.6	518.3
0.0	32.5°	0.0	11.2	17.9	31.4	33.7	49.4	78.5	123.4	273.7	630.5
0.0	35°	0.0	0.0	9.0	24.7	24.7	40.4	71.8	118.9	318.6	715.8
0.0	37.5°	0.0	0.0	0.0	17.9	20.2	35.9	69.6	116.7	327.6	722.5
0.0	40°	0.0	0.0	0.0	13.5	15.7	33.7	69.6	118.9	296.2	706.8
0.0	42.5°	0.0	0.0	0.0	9.0	11.2	33.7	69.6	123.4	267.0	724.7
0.0	45°	0.0	0.0	0.0	6.7	9.0	35.9	67.3	121.2	251.3	819.0
0.0	47.5°	0.0	0.0	0.0	9.0	13.5	35.9	65.1	118.9	253.5	1130.8
0.0	50°	0.0	0.0	0.0	11.2	15.7	35.9	67.3	114.4	278.2	1738.9
0.0	52.5°	0.0	0.0	0.0	9.0	13.5	40.4	74.0	112.2	302.9	2261.7
0.0	55°	0.0	0.0	0.0	2.2	6.7	51.6	80.8	112.2	341.0	2391.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	58.3	92.0	118.9	403.9	2340.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	58.3	94.2	118.9	408.4	2295.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	58.3	103.2	132.4	439.8	2044.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	49.4	123.4	166.0	457.7	1606.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	40.4	145.8	181.7	471.2	1278.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	38.1	150.3	184.0	477.9	1018.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	40.4	148.1	197.4	500.4	827.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	44.9	134.6	217.6	500.4	733.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	47.1	125.6	244.6	455.5	635.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	44.9	123.4	285.0	406.1	522.8
0.0	80°	4.5	6.7	6.7	4.5	4.5	38.1	121.2	289.4	345.5	359.0
2.2	82.5°	13.5	17.9	15.7	11.2	11.2	33.7	107.7	242.3	179.5	154.8
13.5	85°	24.7	29.2	29.2	24.7	24.7	31.4	67.3	87.5	60.6	49.4
24.7	87.5°	33.7	38.1	38.1	33.7	33.7	31.4	29.2	26.9	24.7	24.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

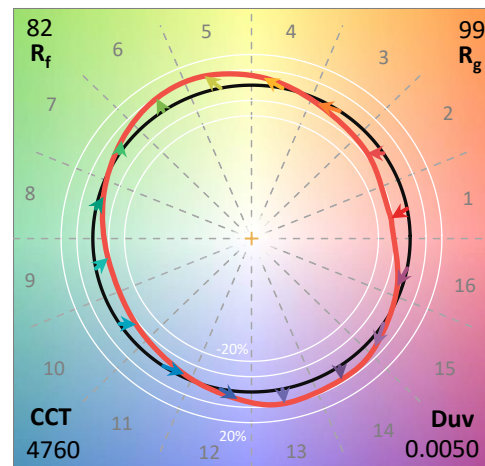
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-12
 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-850-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4760
 CIE u' : 0.2107
 CIE v' : 0.4939
 Duv: 0.0050
 CIE x: 0.3537
 CIE y: 0.3685
 CIE z: 0.2779
 Peak Wavelength (nm): 443
 Dominant Wavelength (nm): 571
 Purity: 16.69598
 R_f: 82
 R_g: 99.4

CRI (Ra): 81.1
 R1: 79.8
 R2: 83.5
 R3: 87.9
 R4: 83.1
 R5: 80.5
 R6: 79.1
 R7: 86.1
 R8: 69.0
 R9: 8.7
 R10: 62.4
 R11: 83.8
 R12: 63.0
 R13: 79.9
 R14: 93.3
 R15: 72.7



Test Conditions

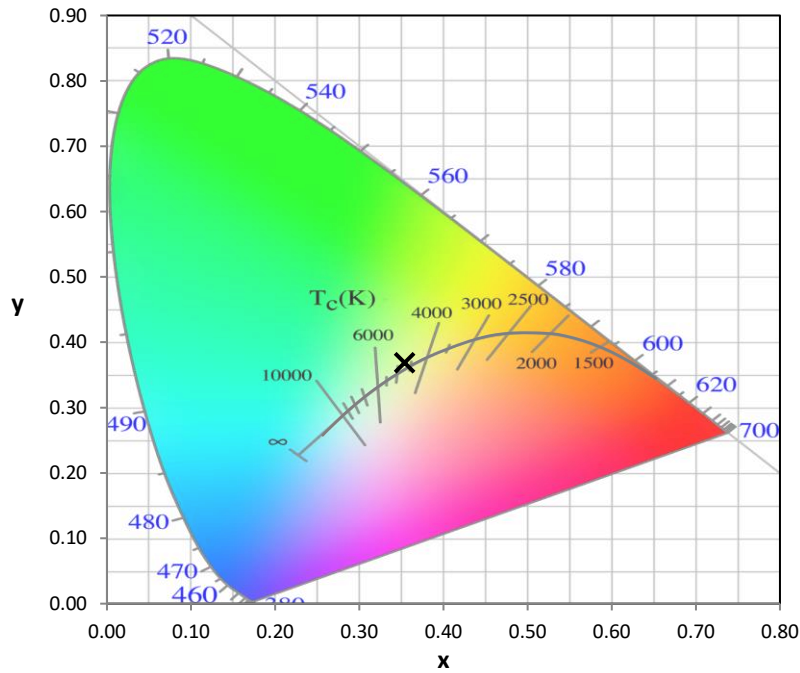
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

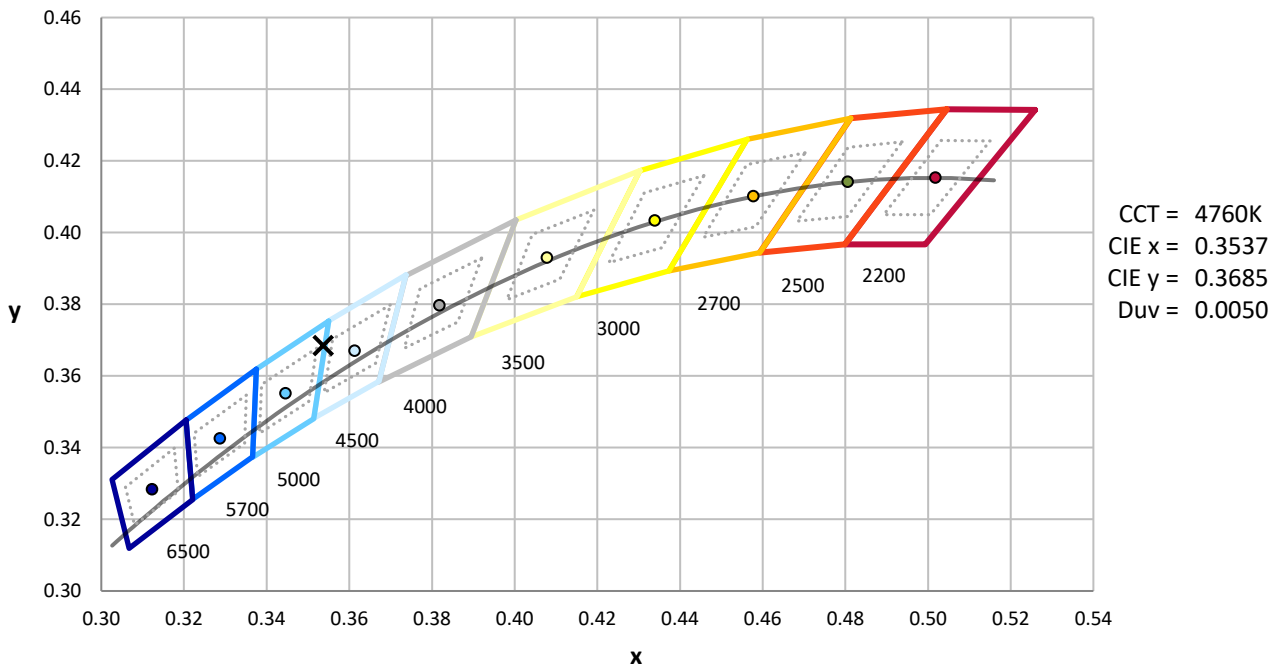
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-12

CIE 1931 Chromaticity Diagram



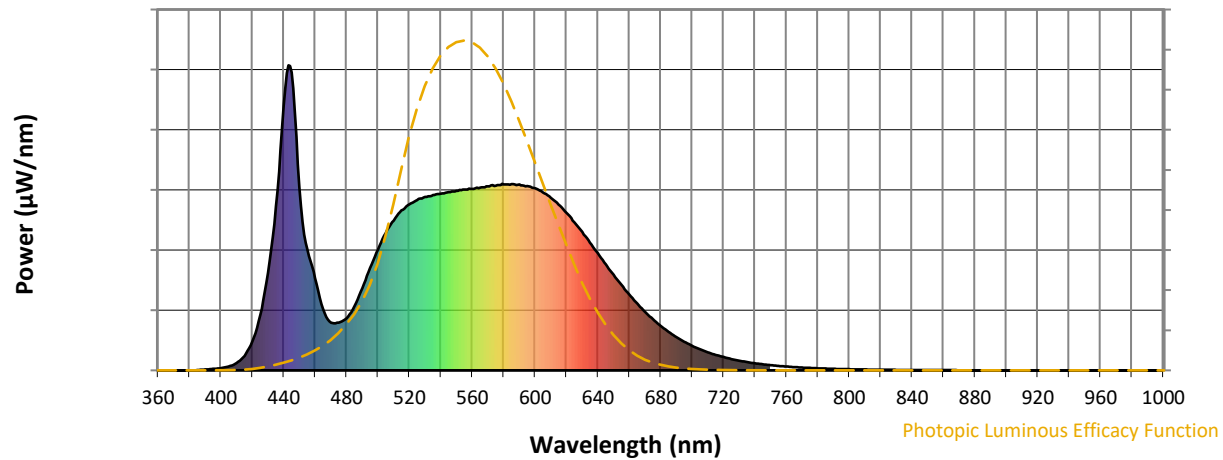
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

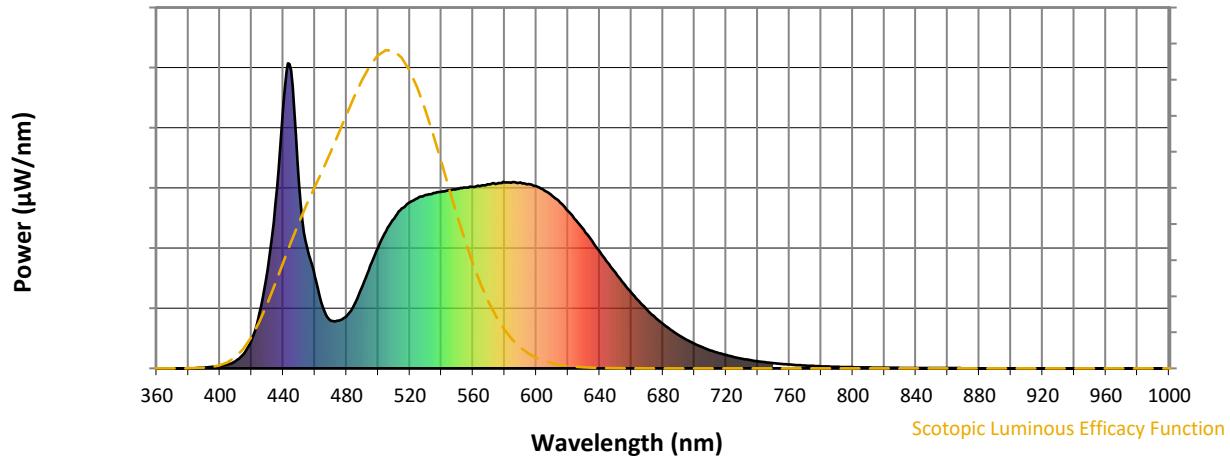


Photopic Lumens: NR

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength



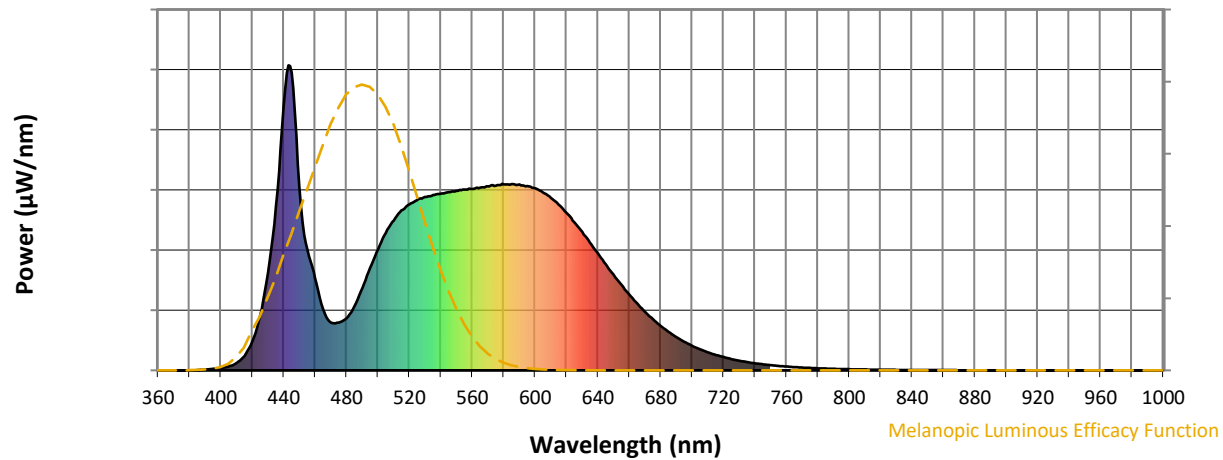
Scotopic Lumens: NR

S/P: 1.83

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

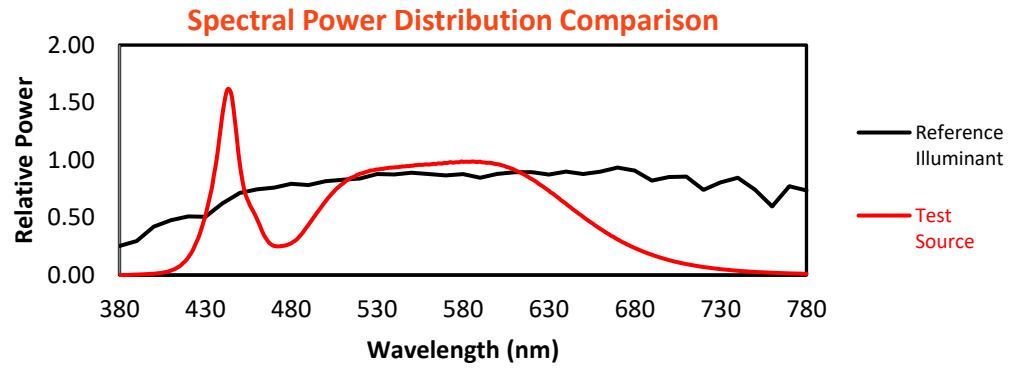
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

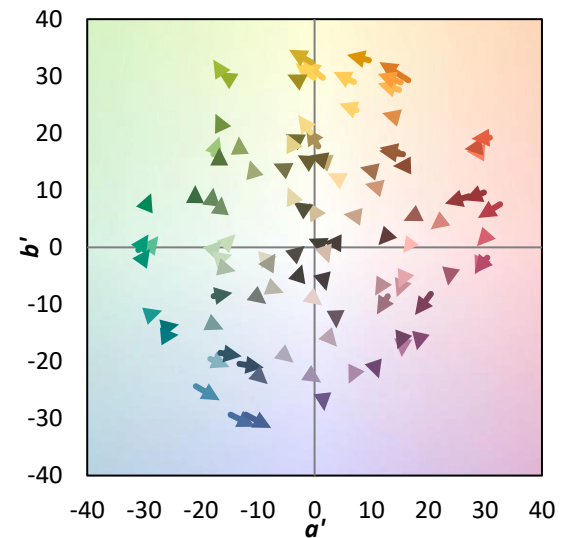
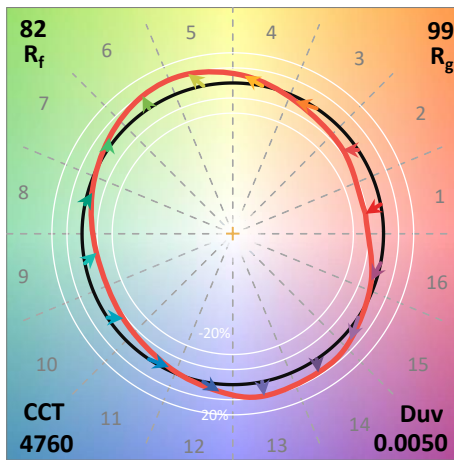
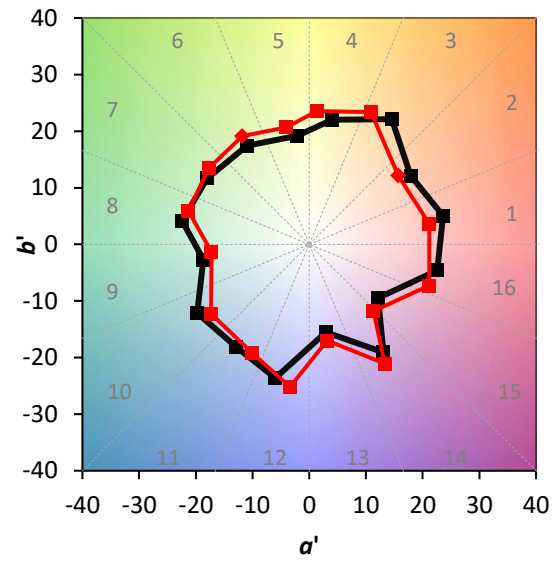
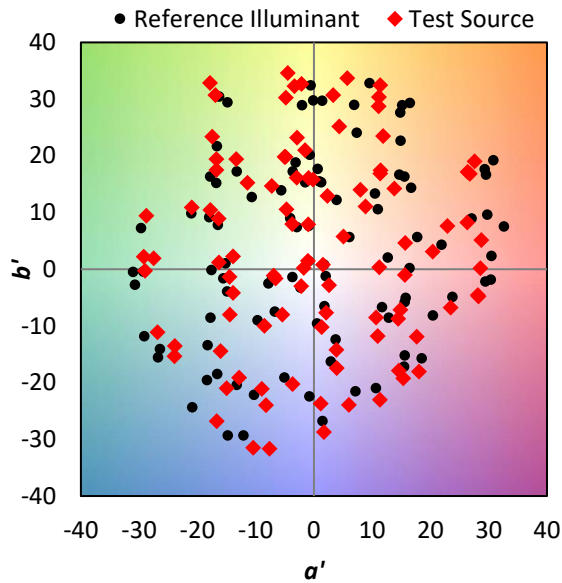
TM-30-18

Summary

$R_f = 82$
 $R_g = 99.4$
 $CIE R_a = 81.1$
 $R_9 = 8.7$

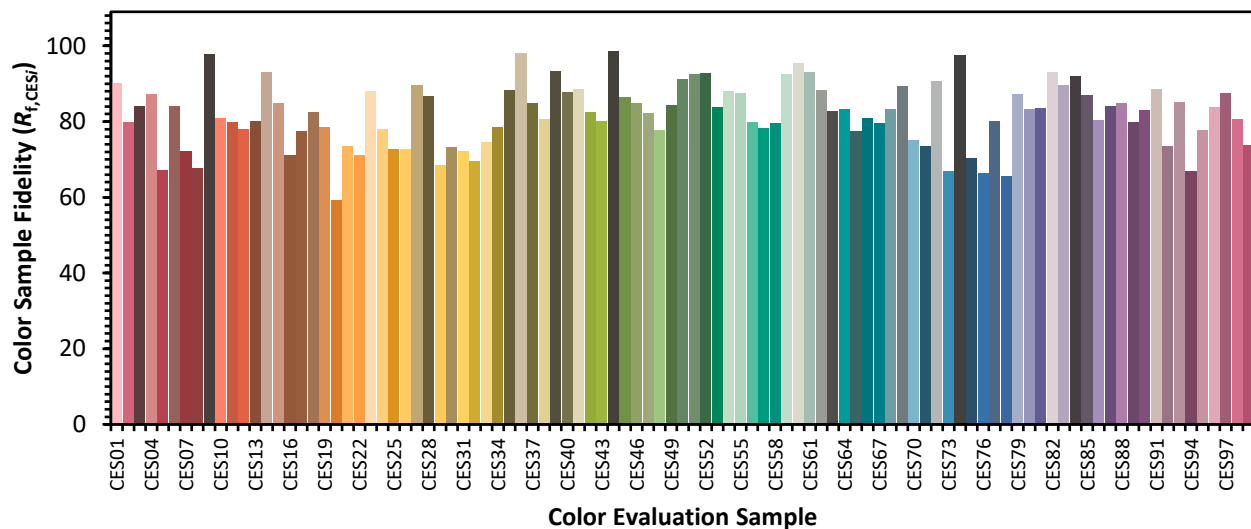


Color Vector Graphics

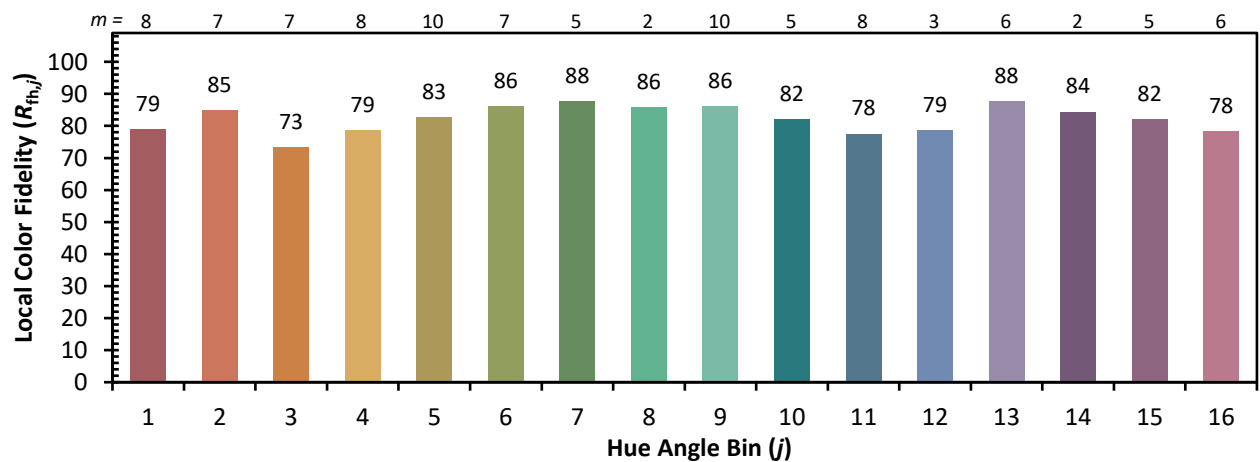
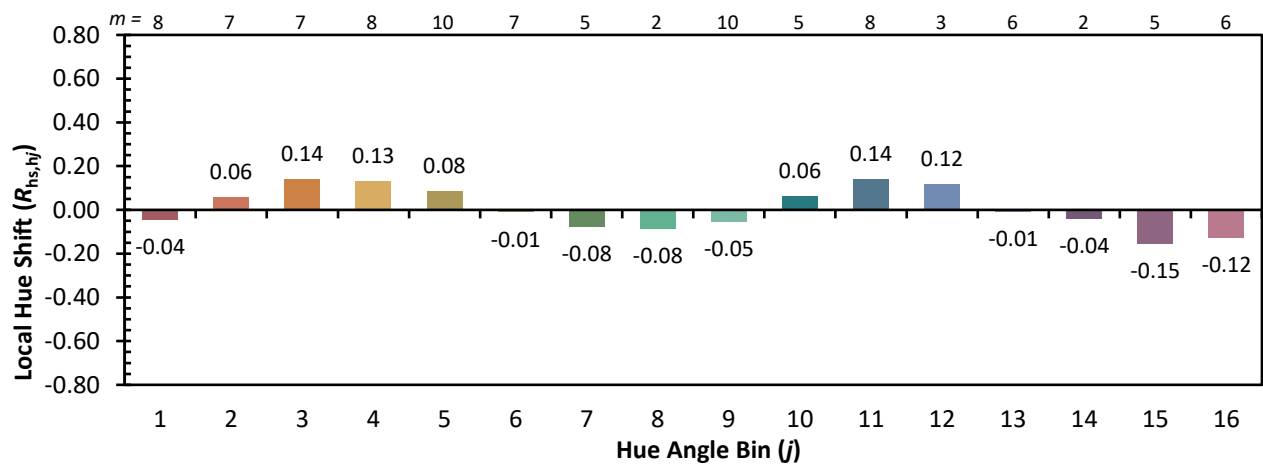
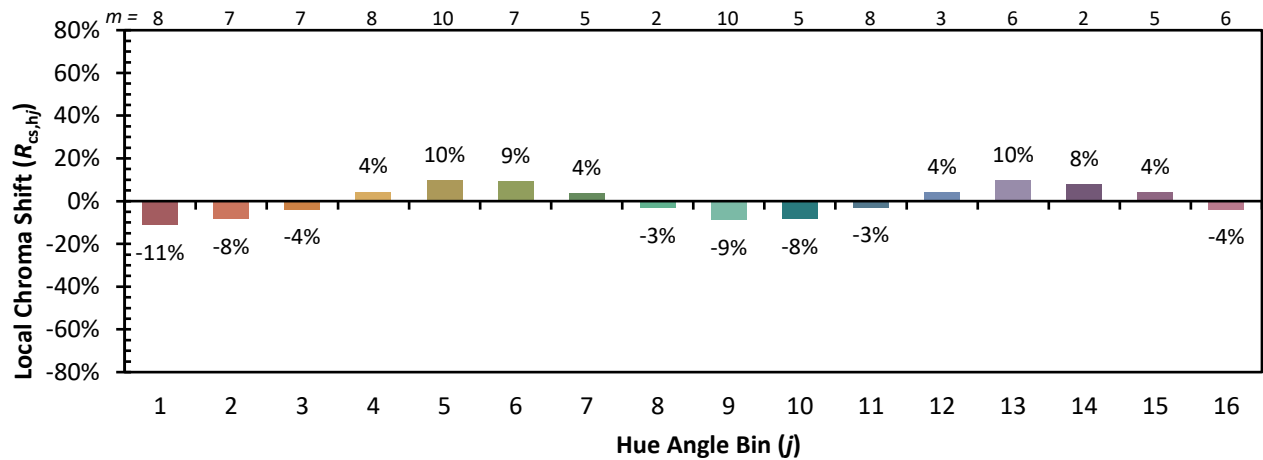


Individual Sample Fidelity Index ($R_{f,i}$)

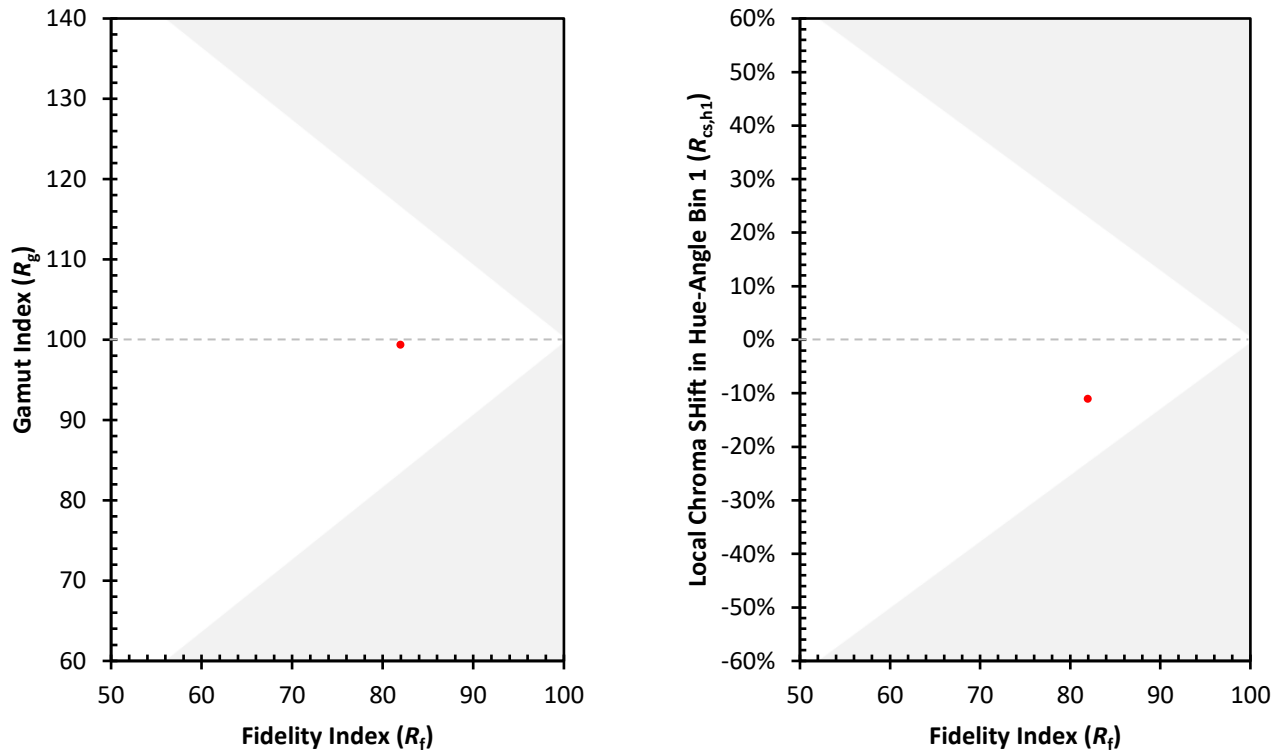
CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
CES23 = 91	CES48 = 78	CES73 = 67	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
CES25 = 71	CES50 = 91	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)