

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: P1049771

Luminaire Tested: **GALN-SA6C-830-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049771
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27193.6 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 282.5
Input Voltage (V): 120
Input Current (A_{in}): 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

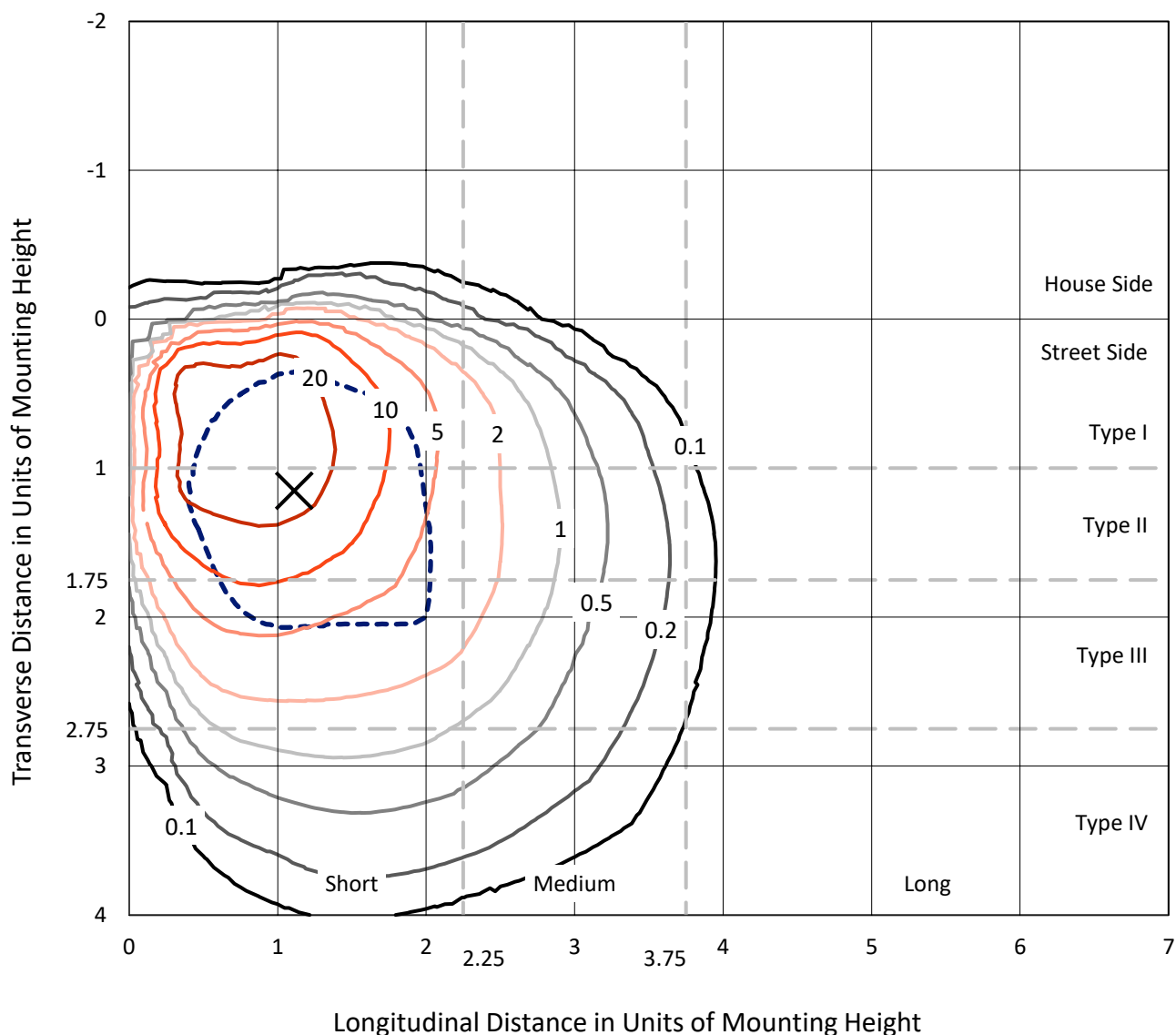
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

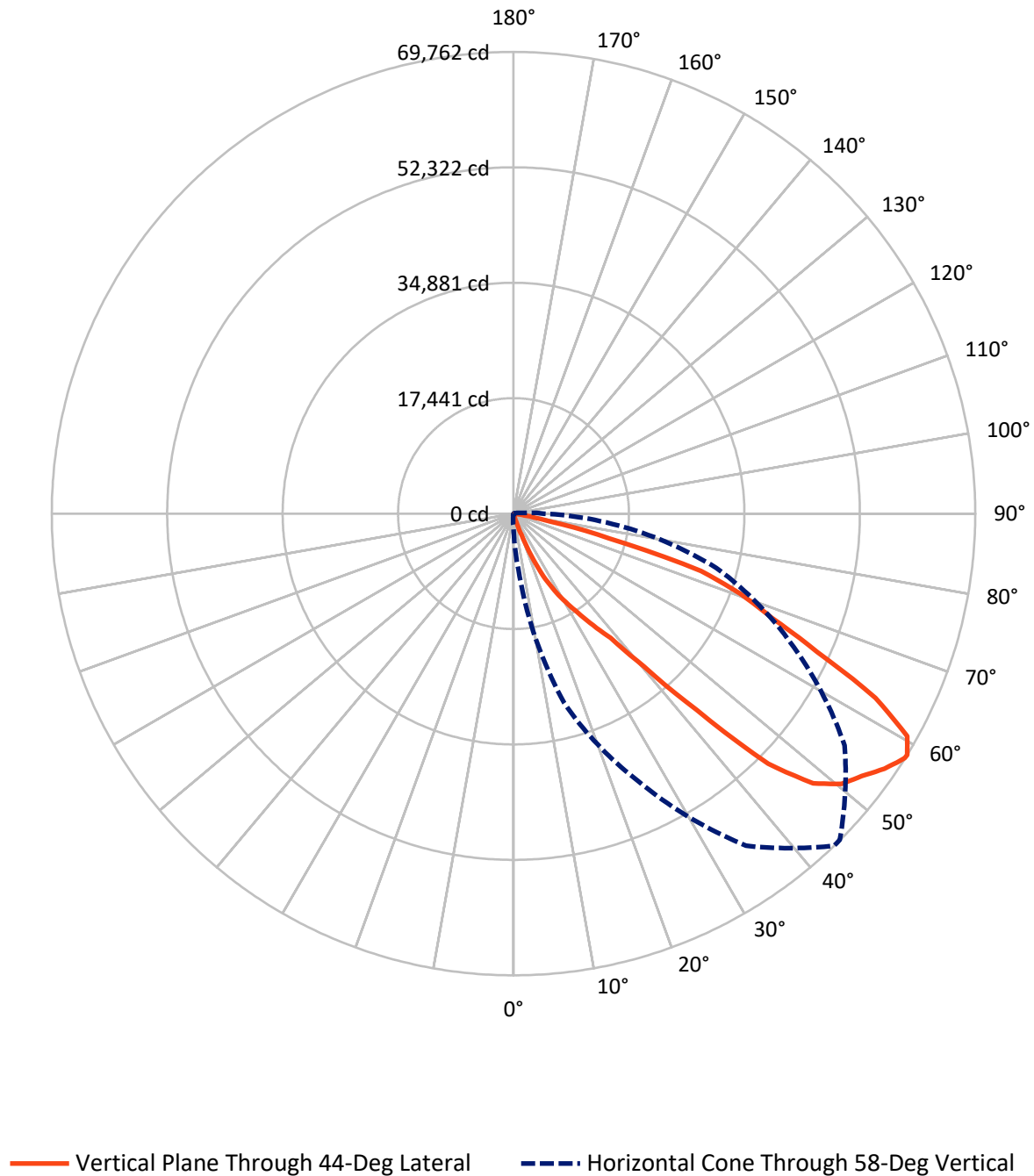


Based on 20 foot mounting height. Maximum calculated value = 47.3 fc

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	185.7	0.0	185.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	27007.9	0.0	27007.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	27193.6	0.0	27193.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.6	0.0
10°-20°	59.6	0.2
20°-30°	644.2	2.4
30°-40°	1905.2	7.0
40°-50°	5678.5	20.9
50°-60°	9010.3	33.1
60°-70°	7515.7	27.6
70°-80°	2318.0	8.5
80°-90°	51.5	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°	27193.6	100.0
0°-180°	27193.6	100.0



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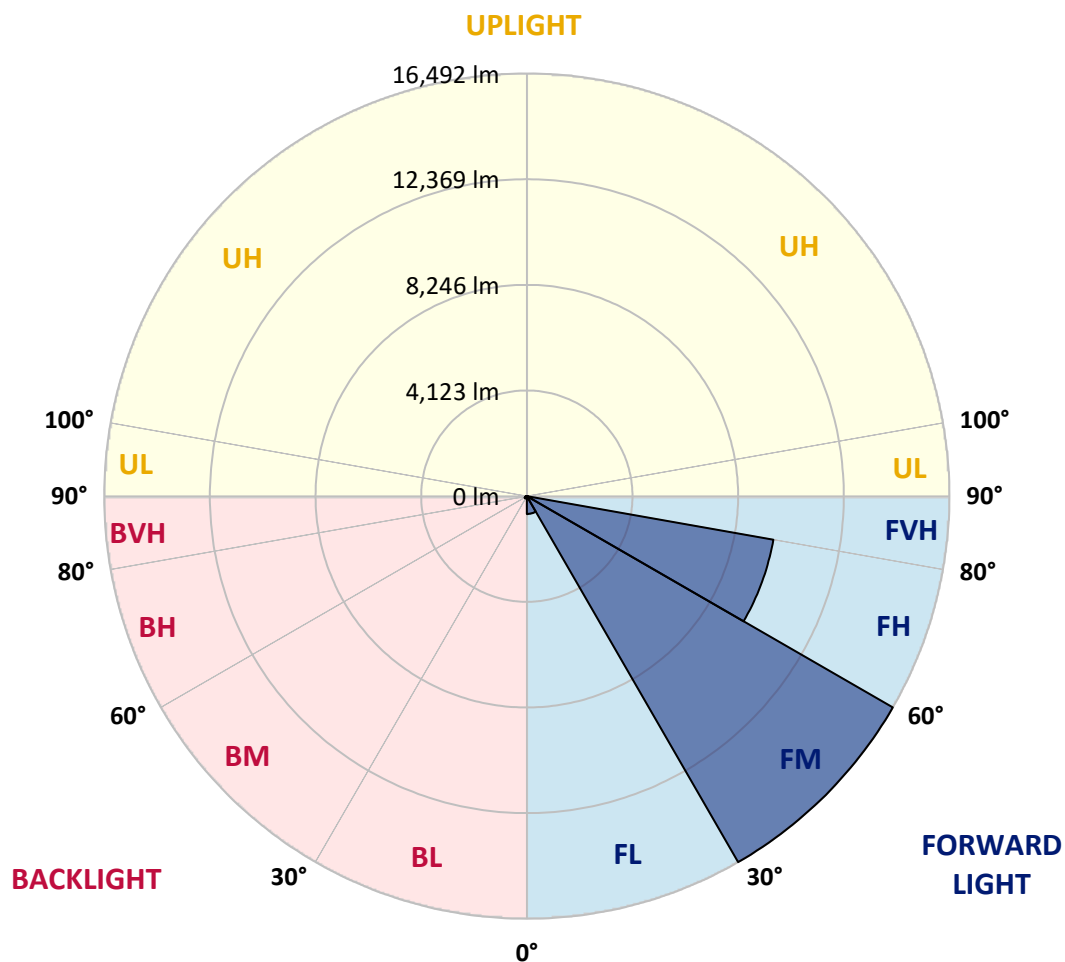
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	696.3	2.6			
FM	(30°-60°)	16492.3	60.6			
FH	(60°-80°)	9770.3	35.9			G4/12000
FVH	(80°-90°)	49.0	0.2			G1/100
BL	(0°-30°)	18.2	0.1	B0/110		
BM	(30°-60°)	101.6	0.4	B0/220		
BH	(60°-80°)	63.4	0.2	B0/110		G0/110
BVH	(80°-90°)	2.5	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1
2.5°	154.1	154.1	147.9	139.7	131.5	123.3	121.2	117.1	115.0	113.0
5°	160.2	160.2	158.2	152.0	143.8	137.6	137.6	131.5	127.4	123.3
7.5°	164.3	166.4	170.5	168.4	164.3	158.2	158.2	154.1	147.9	137.6
10°	170.5	176.7	184.9	189.0	191.0	191.0	189.0	186.9	176.7	162.3
12.5°	176.7	189.0	209.5	230.1	242.4	258.8	256.8	252.7	226.0	195.2
15°	189.0	207.5	250.6	310.2	402.6	460.2	482.7	462.2	373.9	262.9
17.5°	203.4	234.2	363.6	649.1	1064.1	1261.3	1380.5	1283.9	850.5	499.2
20°	217.7	285.5	675.8	1682.4	2760.9	3405.9	3584.7	3305.3	2122.0	951.1
22.5°	242.4	400.6	1370.2	3477.8	5949.1	6916.6	7099.5	6205.9	4007.8	1877.6
25°	293.8	581.4	2362.4	5667.7	8878.4	10511.6	10435.6	9264.6	6501.7	2999.2
27.5°	367.7	846.3	3572.3	8052.6	11684.5	13124.6	13297.1	11848.9	8666.9	4410.5
30°	474.5	1173.0	4870.6	9963.1	13933.9	15491.1	15519.8	14022.3	10604.0	5649.2
32.5°	577.2	1481.1	6006.6	11809.8	16150.5	17857.5	17984.9	16142.3	12050.2	6939.2
35°	655.3	1682.4	7157.0	13432.7	18385.5	20737.6	20729.4	18541.6	13763.4	8091.7
37.5°	661.5	1883.7	8198.5	15092.5	21216.2	23849.8	24110.7	21699.0	15834.1	9517.3
40°	647.1	2109.7	9517.3	17680.9	26316.9	30357.6	30587.7	27547.4	19987.8	11957.8
42.5°	663.5	2502.1	11657.8	22461.1	34786.6	40589.8	41033.5	37837.1	27623.4	16937.2
45°	749.8	3239.5	16142.3	30458.3	46859.4	53934.2	53786.3	49182.7	36508.0	24517.4
47.5°	1035.3	5045.2	22789.8	38241.8	54575.1	60875.5	61002.8	55376.3	41692.9	30345.3
50°	1592.0	7719.8	28375.3	42356.5	57892.7	64213.6	64094.5	57592.8	43663.0	33215.1
52.5°	2070.7	9654.9	31177.3	43800.6	58317.9	65863.2	65855.0	58176.2	43969.0	33461.6
55°	2189.8	9800.8	31199.9	43878.7	59271.1	68022.2	68293.3	59612.1	44365.5	32385.2
57.5°	2142.6	8677.1	29897.5	44330.6	60967.9	69692.3	69706.7	61002.8	45372.1	31725.7
58°	2101.5	8500.5	29634.5	44587.4	61259.6	69762.1	69727.2	61066.5	46191.7	31701.1
60°	1871.4	7380.9	28609.5	45242.7	60826.2	68328.3	68001.6	59675.8	46070.5	31448.4
62.5°	1470.8	5758.0	27600.8	44484.7	56179.5	61387.0	61522.6	52833.1	41999.0	29975.5
65°	1170.9	4291.3	25497.3	39020.4	46261.6	50411.2	50916.5	42962.5	35055.7	25382.2
67.5°	932.6	3101.9	21388.8	31066.3	36606.6	42073.0	42440.7	36070.5	27159.2	19447.5
70°	758.0	2097.4	14763.9	22719.9	30193.3	36339.6	36362.2	29965.3	20271.3	12742.5
72.5°	671.7	1452.4	8570.3	16569.5	24482.5	29611.9	29014.1	24316.1	15579.4	7547.3
75°	581.4	963.4	4203.0	10129.5	14844.0	14944.6	15172.6	11279.9	7787.6	3588.8
77.5°	478.6	684.1	1655.7	2767.1	4451.5	5698.5	5910.1	4478.3	2590.4	883.3
80°	328.7	324.6	445.8	848.4	1273.6	1596.1	1489.3	1152.4	677.9	339.0
82.5°	141.7	154.1	201.3	242.4	197.2	191.0	182.8	117.1	90.4	69.8
85°	45.2	41.1	43.1	43.1	34.9	26.7	26.7	12.3	0.0	0.0
87.5°	22.6	18.5	18.5	16.4	10.3	4.1	2.1	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°
119.1	0°	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1
110.9	2.5°	108.9	108.9	104.8	100.7	98.6	94.5	92.4	90.4	88.3	86.3
119.1	5°	115.0	113.0	106.8	100.7	94.5	88.3	84.2	80.1	76.0	74.0
131.5	7.5°	125.3	121.2	108.9	98.6	90.4	82.2	78.1	71.9	67.8	61.6
145.9	10°	137.6	129.4	113.0	100.7	88.3	78.1	71.9	65.7	59.6	51.4
166.4	12.5°	154.1	139.7	119.1	98.6	84.2	71.9	65.7	57.5	51.4	45.2
193.1	15°	168.4	150.0	121.2	98.6	80.1	65.7	57.5	49.3	43.1	34.9
242.4	17.5°	189.0	158.2	119.1	92.4	74.0	57.5	49.3	43.1	32.9	20.5
359.5	20°	223.9	164.3	115.0	86.3	63.7	47.2	37.0	28.8	14.4	4.1
540.3	22.5°	279.4	180.8	110.9	78.1	55.5	37.0	24.7	10.3	0.0	0.0
821.7	25°	386.2	209.5	110.9	74.0	49.3	26.7	8.2	0.0	0.0	0.0
1166.8	27.5°	513.6	248.6	110.9	63.7	39.0	14.4	0.0	0.0	0.0	0.0
1590.0	30°	643.0	291.7	110.9	55.5	30.8	2.1	0.0	0.0	0.0	0.0
1957.7	32.5°	766.2	328.7	113.0	47.2	20.5	0.0	0.0	0.0	0.0	0.0
2467.1	35°	891.5	334.8	110.9	41.1	12.3	0.0	0.0	0.0	0.0	0.0
3091.6	37.5°	1051.8	322.5	104.8	37.0	6.2	0.0	0.0	0.0	0.0	0.0
4067.4	40°	1294.2	328.7	98.6	34.9	2.1	0.0	0.0	0.0	0.0	0.0
5807.3	42.5°	1742.0	355.4	90.4	34.9	0.0	0.0	0.0	0.0	0.0	0.0
9250.3	45°	3011.5	476.6	82.2	37.0	0.0	0.0	0.0	0.0	0.0	0.0
13886.7	47.5°	4981.5	856.6	80.1	37.0	0.0	0.0	0.0	0.0	0.0	0.0
16727.7	50°	6357.9	1078.5	84.2	39.0	0.0	0.0	0.0	0.0	0.0	0.0
17083.1	52.5°	6347.6	1201.7	88.3	41.1	8.2	0.0	0.0	0.0	0.0	0.0
15745.8	55°	5643.0	1224.3	94.5	45.2	26.7	0.0	0.0	0.0	0.0	0.0
13531.3	57.5°	4716.5	1117.5	108.9	55.5	49.3	0.0	0.0	0.0	0.0	0.0
13184.1	58°	4552.2	1068.2	113.0	57.5	53.4	0.0	0.0	0.0	0.0	0.0
11436.0	60°	3730.5	871.0	143.8	71.9	71.9	0.0	0.0	0.0	0.0	0.0
9375.6	62.5°	2576.0	760.1	164.3	92.4	74.0	0.0	0.0	0.0	0.0	0.0
6912.5	65°	1822.1	686.1	178.7	98.6	59.6	0.0	0.0	0.0	0.0	0.0
4911.7	67.5°	1362.0	632.7	197.2	100.7	30.8	0.0	0.0	0.0	0.0	0.0
3081.4	70°	1043.6	593.7	242.4	106.8	8.2	0.0	0.0	0.0	0.0	0.0
1836.5	72.5°	850.5	548.5	293.8	110.9	0.0	0.0	0.0	0.0	0.0	0.0
1101.1	75°	704.6	495.1	283.5	121.2	0.0	0.0	0.0	0.0	0.0	0.0
587.5	77.5°	468.4	384.1	258.8	121.2	0.0	0.0	0.0	0.0	0.0	0.0
209.5	80°	164.3	152.0	201.3	106.8	0.0	0.0	0.0	0.0	0.0	0.0
43.1	82.5°	24.7	20.5	28.8	37.0	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	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°
119.1	0°	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1
84.2	2.5°	84.2	84.2	82.2	84.2	84.2	88.3	98.6	113.0	129.4	135.6
71.9	5°	69.8	67.8	65.7	65.7	65.7	71.9	80.1	96.5	115.0	123.3
59.6	7.5°	57.5	55.5	53.4	51.4	51.4	55.5	65.7	84.2	102.7	110.9
49.3	10°	47.2	43.1	41.1	39.0	39.0	43.1	53.4	71.9	92.4	100.7
41.1	12.5°	39.0	32.9	28.8	26.7	24.7	30.8	41.1	57.5	80.1	90.4
30.8	15°	26.7	20.5	14.4	12.3	10.3	16.4	26.7	45.2	67.8	80.1
16.4	17.5°	14.4	6.2	2.1	0.0	0.0	4.1	12.3	32.9	55.5	65.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	41.1	51.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	24.7	34.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	18.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
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	6.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	16.4
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°
119.1	0°	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1
141.7	2.5°	145.9	143.8	139.7	135.6	135.6	135.6	141.7	147.9	154.1	154.1
127.4	5°	135.6	135.6	133.5	129.4	129.4	131.5	139.7	150.0	158.2	160.2
117.1	7.5°	125.3	129.4	125.3	123.3	125.3	127.4	135.6	147.9	160.2	164.3
108.9	10°	119.1	121.2	121.2	119.1	119.1	123.3	131.5	147.9	164.3	170.5
98.6	12.5°	110.9	115.0	113.0	113.0	113.0	117.1	127.4	145.9	168.4	176.7
88.3	15°	102.7	108.9	108.9	106.8	106.8	108.9	123.3	143.8	174.6	189.0
76.0	17.5°	94.5	100.7	102.7	98.6	98.6	102.7	117.1	143.8	178.7	203.4
61.6	20°	78.1	88.3	94.5	88.3	88.3	92.4	106.8	135.6	180.8	217.7
45.2	22.5°	61.6	71.9	80.1	78.1	78.1	80.1	98.6	129.4	182.8	242.4
26.7	25°	45.2	55.5	61.6	65.7	65.7	71.9	90.4	125.3	191.0	293.8
12.3	27.5°	26.7	39.0	47.2	51.4	53.4	61.6	84.2	121.2	205.4	367.7
0.0	30°	12.3	22.6	32.9	41.1	41.1	55.5	78.1	117.1	223.9	474.5
0.0	32.5°	0.0	10.3	16.4	28.8	30.8	45.2	71.9	113.0	250.6	577.2
0.0	35°	0.0	0.0	8.2	22.6	22.6	37.0	65.7	108.9	291.7	655.3
0.0	37.5°	0.0	0.0	0.0	16.4	18.5	32.9	63.7	106.8	299.9	661.5
0.0	40°	0.0	0.0	0.0	12.3	14.4	30.8	63.7	108.9	271.2	647.1
0.0	42.5°	0.0	0.0	0.0	8.2	10.3	30.8	63.7	113.0	244.5	663.5
0.0	45°	0.0	0.0	0.0	6.2	8.2	32.9	61.6	110.9	230.1	749.8
0.0	47.5°	0.0	0.0	0.0	8.2	12.3	32.9	59.6	108.9	232.1	1035.3
0.0	50°	0.0	0.0	0.0	10.3	14.4	32.9	61.6	104.8	254.7	1592.0
0.0	52.5°	0.0	0.0	0.0	8.2	12.3	37.0	67.8	102.7	277.3	2070.7
0.0	55°	0.0	0.0	0.0	2.1	6.2	47.2	74.0	102.7	312.2	2189.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	53.4	84.2	108.9	369.8	2142.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	53.4	86.3	108.9	373.9	2101.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	53.4	94.5	121.2	402.6	1871.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	45.2	113.0	152.0	419.1	1470.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	37.0	133.5	166.4	431.4	1170.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	34.9	137.6	168.4	437.6	932.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	37.0	135.6	180.8	458.1	758.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	41.1	123.3	199.3	458.1	671.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	43.1	115.0	223.9	417.0	581.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	41.1	113.0	260.9	371.8	478.6
0.0	80°	4.1	6.2	6.2	4.1	4.1	34.9	110.9	265.0	316.4	328.7
2.1	82.5°	12.3	16.4	14.4	10.3	10.3	30.8	98.6	221.9	164.3	141.7
12.3	85°	22.6	26.7	26.7	22.6	22.6	28.8	61.6	80.1	55.5	45.2
22.6	87.5°	30.8	34.9	34.9	30.8	30.8	28.8	26.7	24.7	22.6	22.6
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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

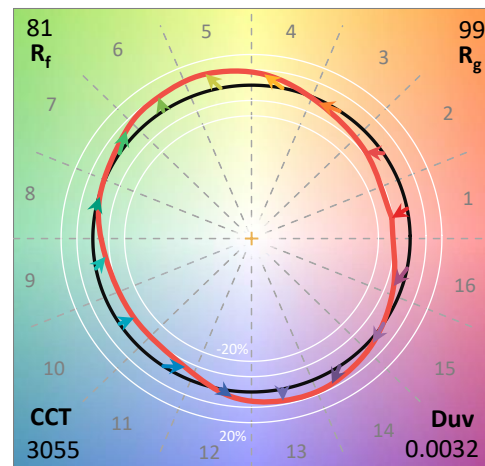
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

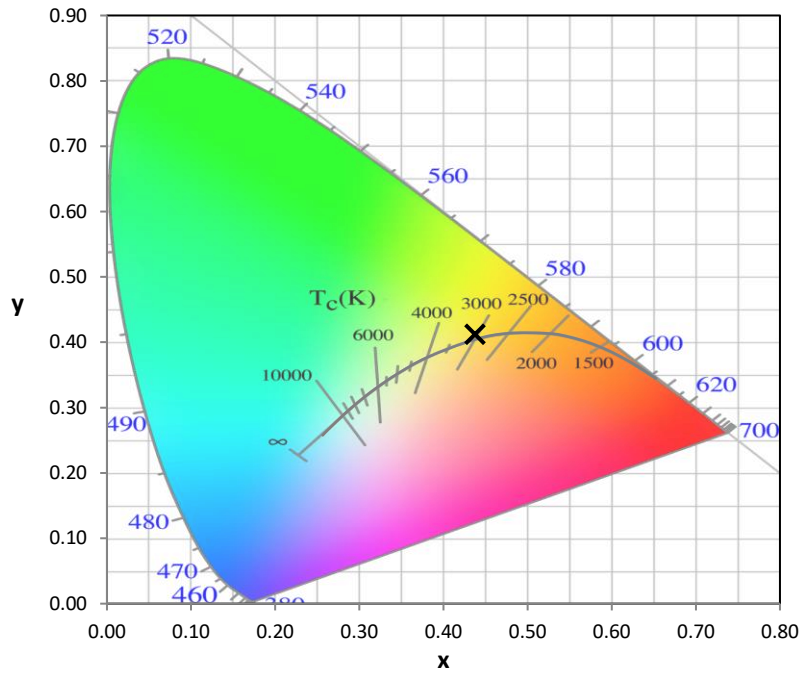
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

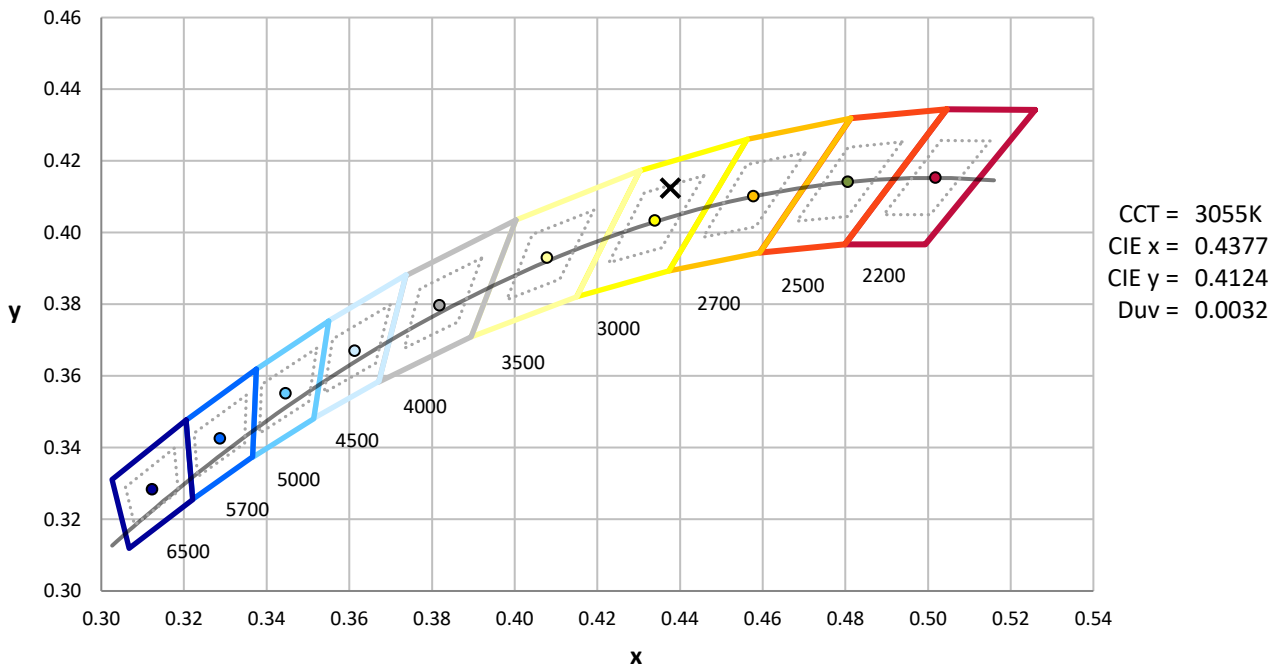
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



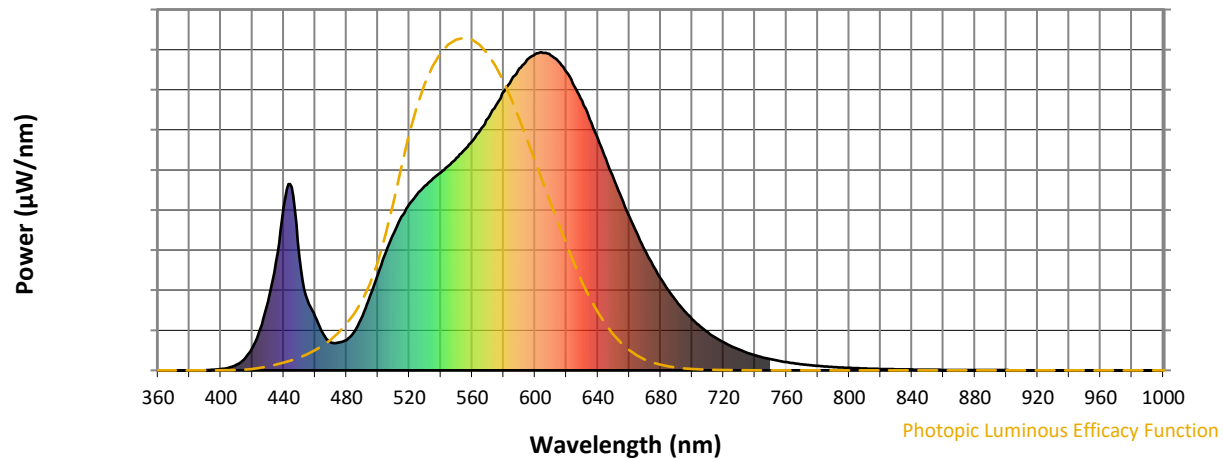
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

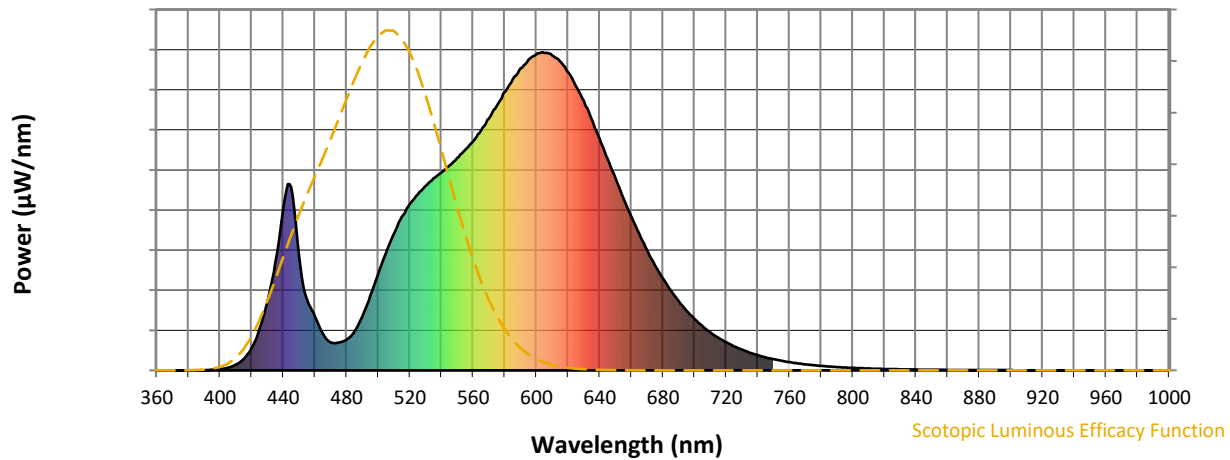


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



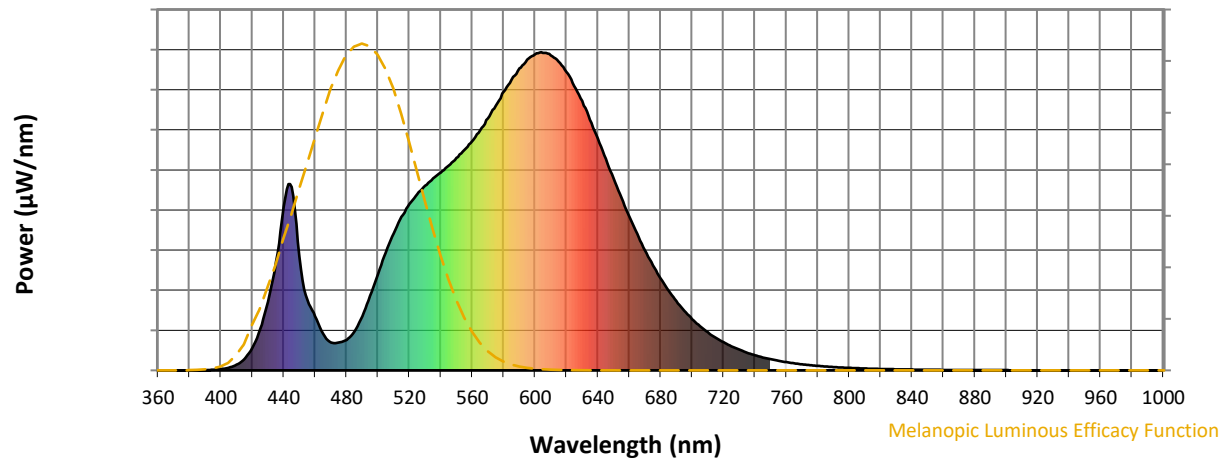
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.33

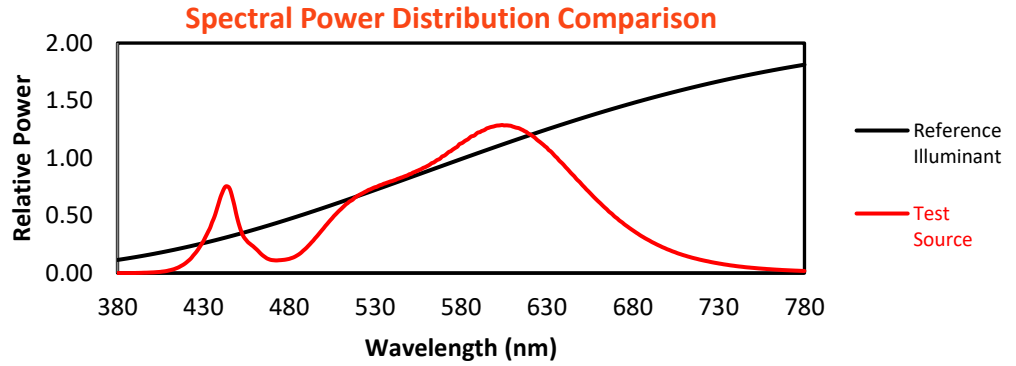
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

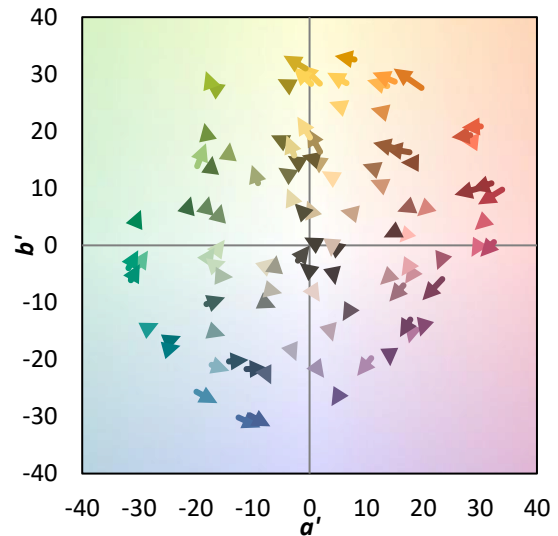
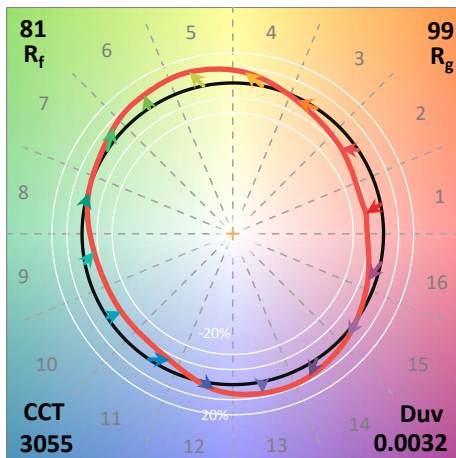
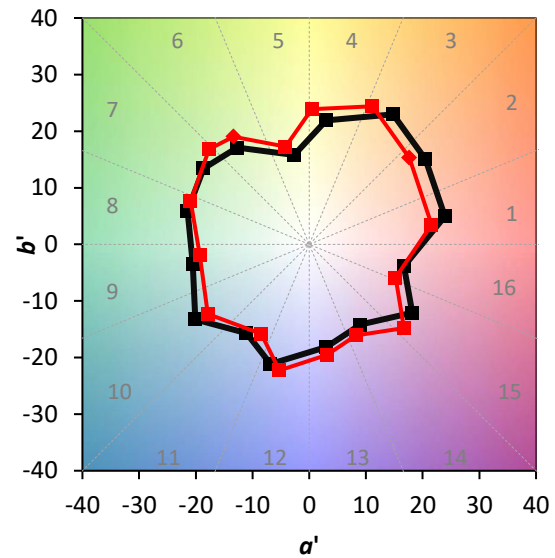
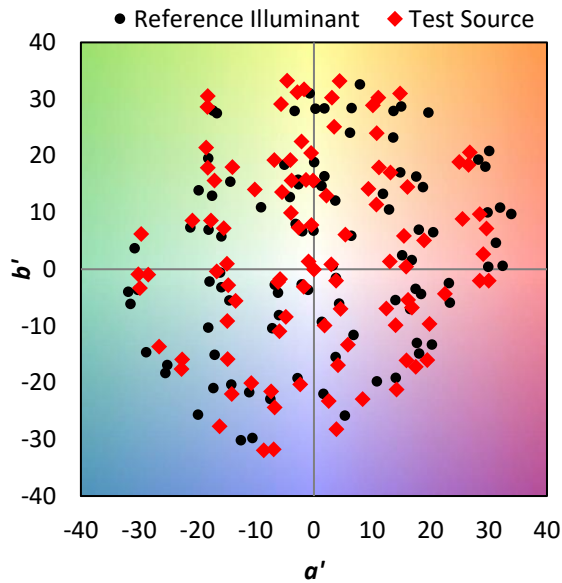
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

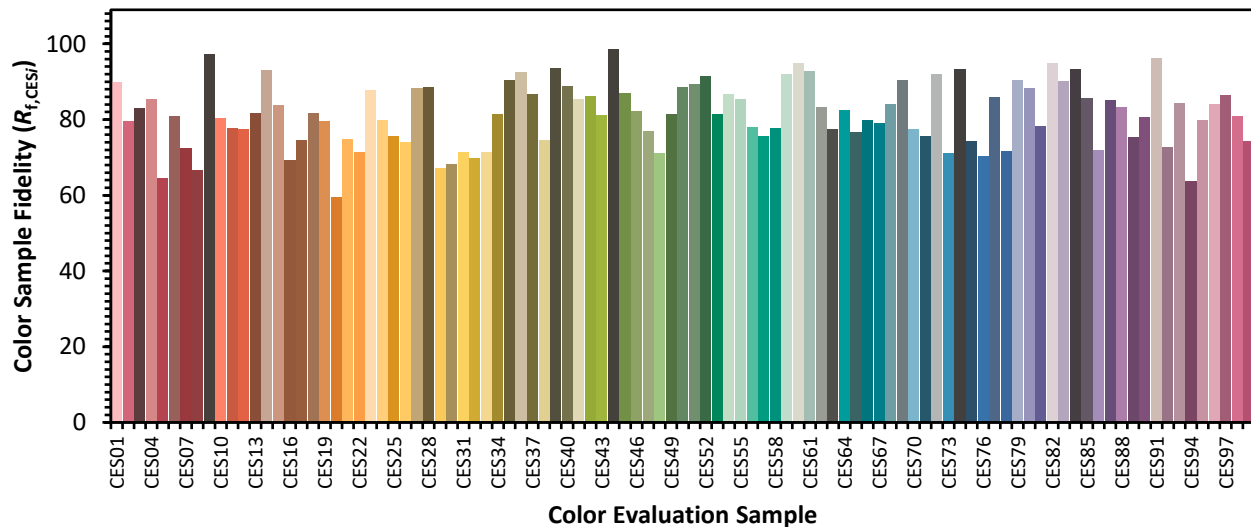


Color Vector Graphics

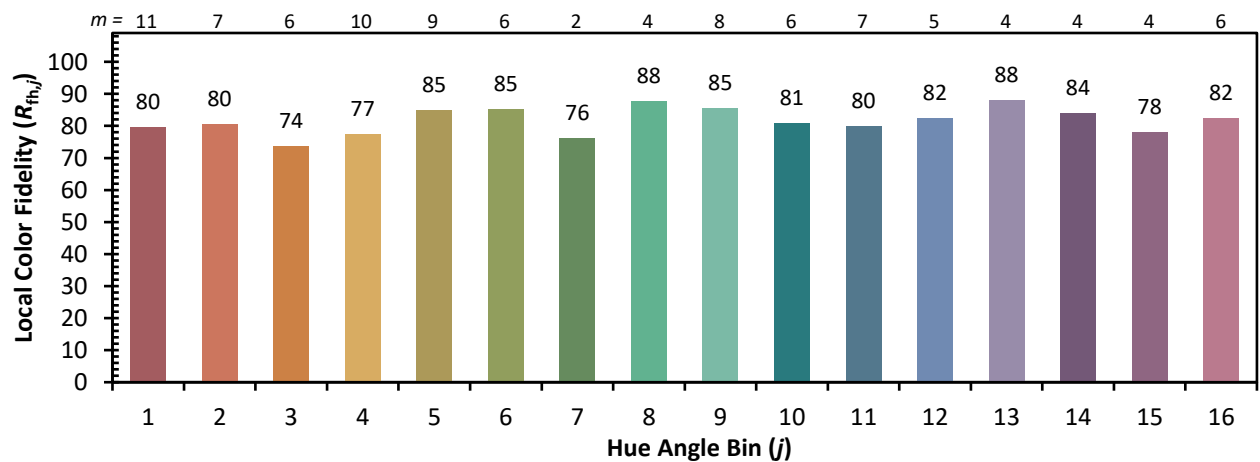
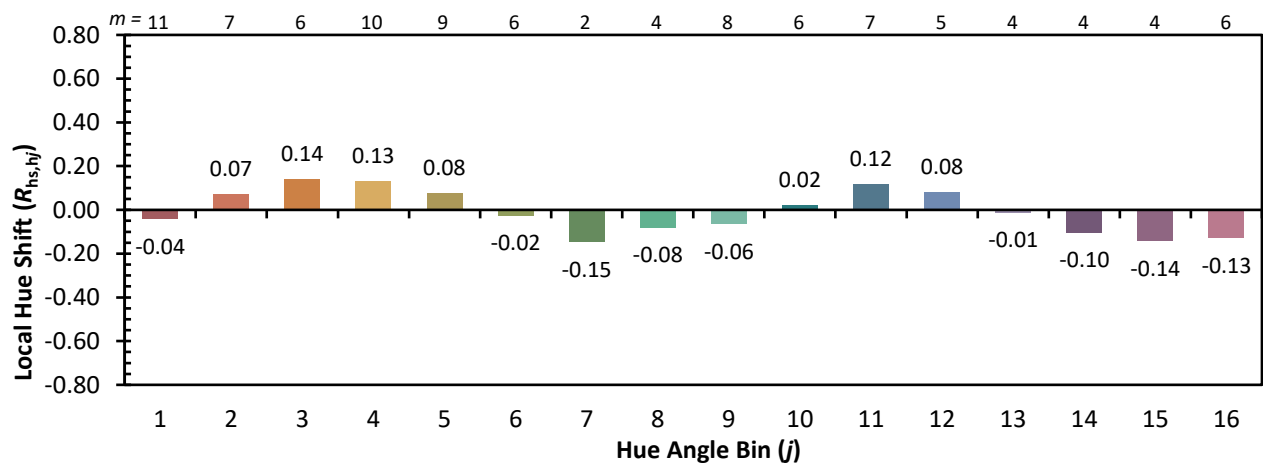
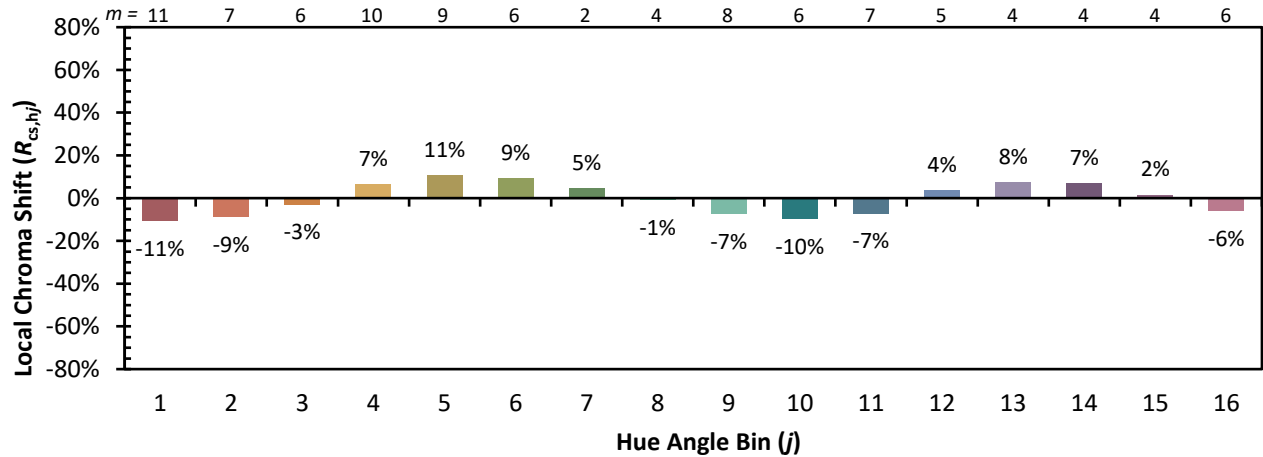


Individual Sample Fidelity Index ($R_{f,i}$)

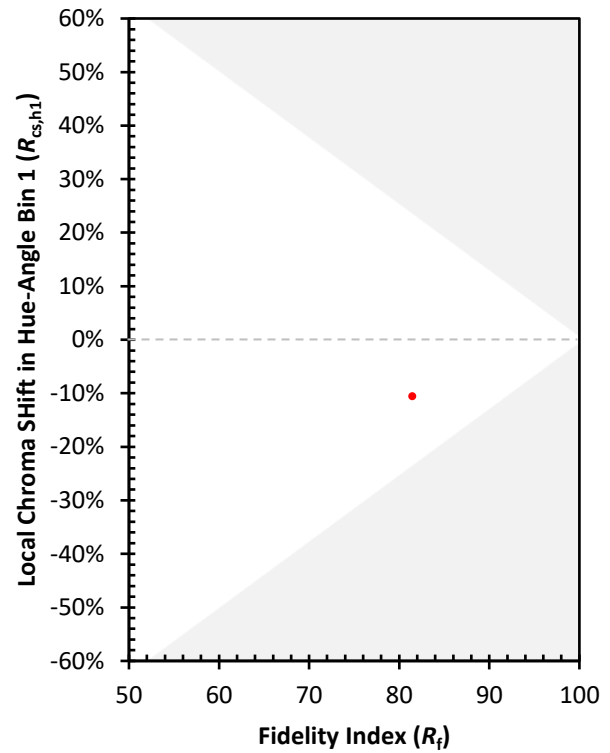
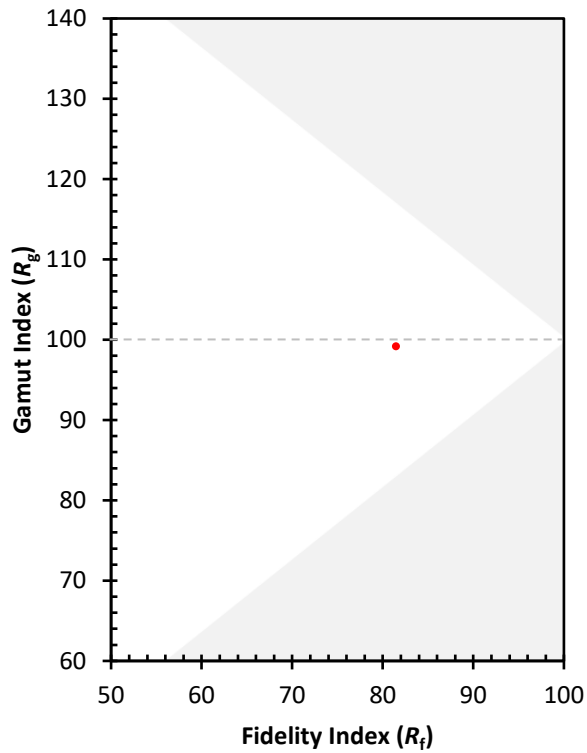
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)