

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: P1049622

Luminaire Tested: **GALN-SA5B-735-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049622
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19984 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

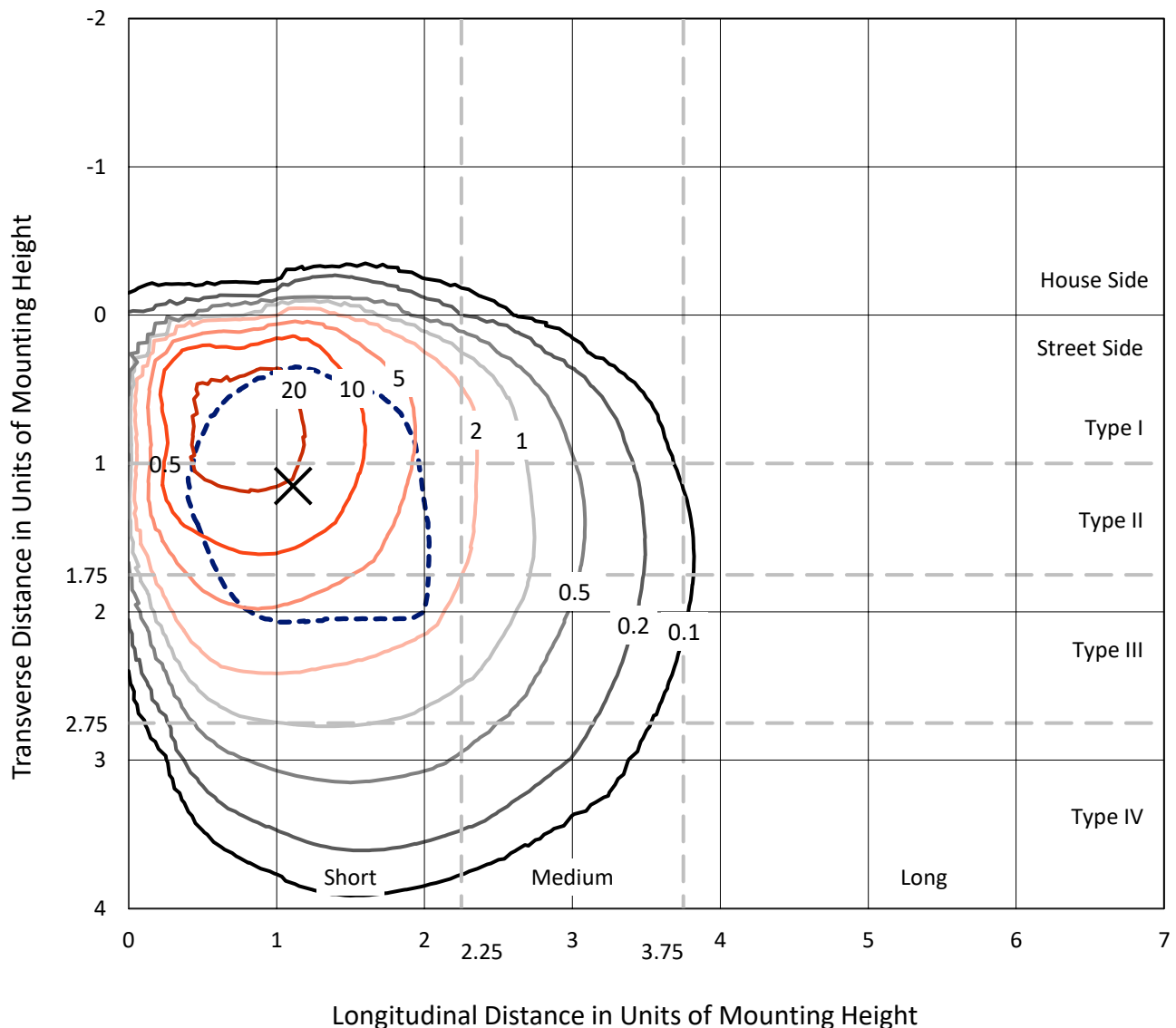
Input Watts (W): 178.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

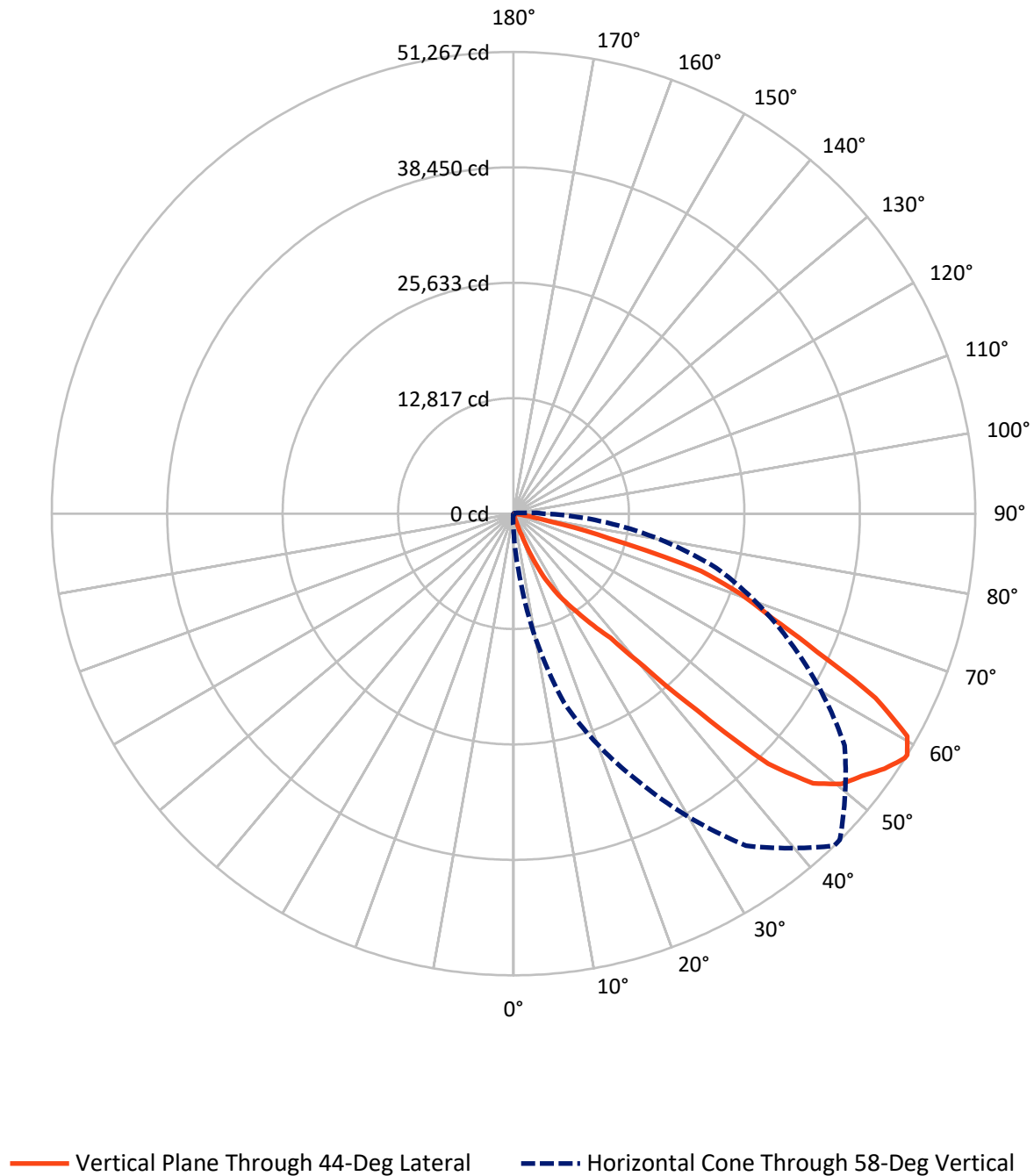
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.8 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	136.4	0.0	136.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	19847.5	0.0	19847.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	19984.0	0.0	19984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	0.0
10°-20°	43.8	0.2
20°-30°	473.4	2.4
30°-40°	1400.1	7.0
40°-50°	4173.0	20.9
50°-60°	6621.5	33.1
60°-70°	5523.1	27.6
70°-80°	1703.4	8.5
80°-90°	37.8	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°	19984.0	100.0
0°-180°	19984.0	100.0

Coefficient of Utilization



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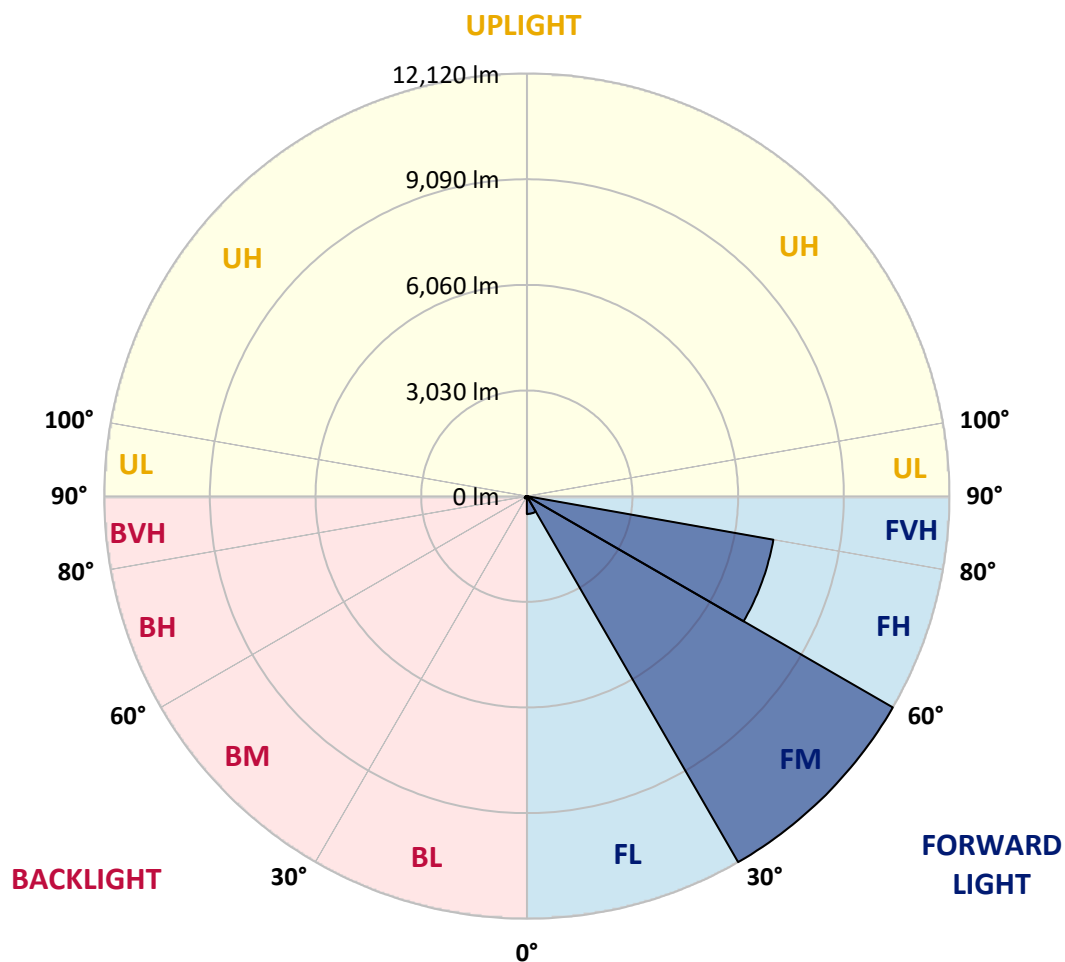
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	511.7	2.6			
FM	(30°-60°)	12119.9	60.6			
FH	(60°-80°)	7179.9	35.9			G3/7500
FVH	(80°-90°)	36.0	0.2			G1/100
BL	(0°-30°)	13.3	0.1	B0/110		
BM	(30°-60°)	74.7	0.4	B0/220		
BH	(60°-80°)	46.6	0.2	B0/110		G0/110
BVH	(80°-90°)	1.8	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°	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
2.5°	113.2	113.2	108.7	102.7	96.6	90.6	89.1	86.0	84.5	83.0
5°	117.8	117.8	116.2	111.7	105.7	101.1	101.1	96.6	93.6	90.6
7.5°	120.8	122.3	125.3	123.8	120.8	116.2	116.2	113.2	108.7	101.1
10°	125.3	129.8	135.9	138.9	140.4	140.4	138.9	137.4	129.8	119.3
12.5°	129.8	138.9	154.0	169.1	178.1	190.2	188.7	185.7	166.1	143.4
15°	138.9	152.5	184.2	228.0	295.9	338.2	354.8	339.7	274.8	193.2
17.5°	149.5	172.1	267.2	477.0	782.0	926.9	1014.5	943.5	625.0	366.8
20°	160.0	209.8	496.7	1236.4	2028.9	2502.9	2634.3	2429.0	1559.4	699.0
22.5°	178.1	294.4	1006.9	2555.8	4371.9	5082.9	5217.2	4560.6	2945.3	1379.8
25°	215.9	427.2	1736.1	4165.0	6524.6	7724.7	7668.9	6808.4	4777.9	2204.0
27.5°	270.2	622.0	2625.2	5917.7	8586.7	9645.0	9771.8	8707.5	6369.1	3241.2
30°	348.7	862.0	3579.3	7321.7	10239.7	11384.0	11405.2	10304.7	7792.7	4151.5
32.5°	424.2	1088.4	4414.1	8678.8	11868.6	13123.1	13216.7	11862.6	8855.4	5099.5
35°	481.6	1236.4	5259.5	9871.4	13511.1	15239.6	15233.6	13625.8	10114.4	5946.4
37.5°	486.1	1384.3	6024.9	11091.2	15591.3	17526.7	17718.4	15946.1	11636.1	6994.1
40°	475.5	1550.4	6994.1	12993.3	19339.7	22309.1	22478.2	20244.0	14688.6	8787.5
42.5°	487.6	1838.7	8567.1	16506.2	25563.9	29828.6	30154.6	27805.7	20299.8	12446.8
45°	551.0	2380.7	11862.6	22383.1	34435.9	39635.0	39526.3	36143.3	26828.9	18017.3
47.5°	760.8	3707.6	16747.7	28103.1	40106.0	44736.0	44829.6	40694.8	30639.2	22300.1
50°	1170.0	5673.1	20852.4	31126.8	42544.1	47189.2	47101.6	42323.7	32086.9	24409.0
52.5°	1521.7	7095.2	22911.5	32188.1	42856.6	48401.4	48395.4	42752.4	32311.9	24590.2
55°	1609.3	7202.4	22928.1	32245.5	43557.0	49988.0	50187.3	43807.6	32603.2	23799.1
57.5°	1574.5	6376.6	21971.0	32577.6	44804.0	51215.3	51225.9	44829.6	33342.9	23314.6
58°	1544.3	6246.8	21777.8	32766.3	45018.3	51266.6	51241.0	44876.4	33945.3	23296.4
60°	1375.3	5424.1	21024.5	33247.8	44699.8	50212.9	49972.9	43854.4	33856.2	23110.8
62.5°	1080.9	4231.5	20283.2	32690.8	41285.1	45111.9	45211.6	38825.9	30864.2	22028.4
65°	860.5	3153.6	18737.4	28675.2	33996.6	37046.0	37417.4	31572.2	25761.6	18652.8
67.5°	685.4	2279.5	15718.1	22830.0	26901.4	30918.5	31188.7	26507.4	19958.7	14291.6
70°	557.0	1541.3	10849.6	16696.4	22188.4	26705.2	26721.8	22020.8	14896.9	9364.2
72.5°	493.6	1067.3	6298.1	12176.6	17991.6	21761.2	21321.9	17869.4	11448.9	5546.3
75°	427.2	708.0	3088.7	7443.9	10908.5	10982.5	11150.0	8289.3	5723.0	2637.3
77.5°	351.7	502.7	1216.8	2033.5	3271.3	4187.7	4343.2	3291.0	1903.6	649.1
80°	241.5	238.5	327.6	623.5	936.0	1173.0	1094.5	846.9	498.2	249.1
82.5°	104.2	113.2	147.9	178.1	144.9	140.4	134.4	86.0	66.4	51.3
85°	33.2	30.2	31.7	31.7	25.7	19.6	19.6	9.1	0.0	0.0
87.5°	16.6	13.6	13.6	12.1	7.5	3.0	1.5	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°
87.6	0°	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
81.5	2.5°	80.0	80.0	77.0	74.0	72.5	69.4	67.9	66.4	64.9	63.4
87.6	5°	84.5	83.0	78.5	74.0	69.4	64.9	61.9	58.9	55.9	54.3
96.6	7.5°	92.1	89.1	80.0	72.5	66.4	60.4	57.4	52.8	49.8	45.3
107.2	10°	101.1	95.1	83.0	74.0	64.9	57.4	52.8	48.3	43.8	37.7
122.3	12.5°	113.2	102.7	87.6	72.5	61.9	52.8	48.3	42.3	37.7	33.2
141.9	15°	123.8	110.2	89.1	72.5	58.9	48.3	42.3	36.2	31.7	25.7
178.1	17.5°	138.9	116.2	87.6	67.9	54.3	42.3	36.2	31.7	24.2	15.1
264.2	20°	164.5	120.8	84.5	63.4	46.8	34.7	27.2	21.1	10.6	3.0
397.0	22.5°	205.3	132.8	81.5	57.4	40.8	27.2	18.1	7.5	0.0	0.0
603.8	25°	283.8	154.0	81.5	54.3	36.2	19.6	6.0	0.0	0.0	0.0
857.5	27.5°	377.4	182.7	81.5	46.8	28.7	10.6	0.0	0.0	0.0	0.0
1168.4	30°	472.5	214.4	81.5	40.8	22.6	1.5	0.0	0.0	0.0	0.0
1438.7	32.5°	563.1	241.5	83.0	34.7	15.1	0.0	0.0	0.0	0.0	0.0
1813.1	35°	655.2	246.1	81.5	30.2	9.1	0.0	0.0	0.0	0.0	0.0
2272.0	37.5°	772.9	237.0	77.0	27.2	4.5	0.0	0.0	0.0	0.0	0.0
2989.0	40°	951.1	241.5	72.5	25.7	1.5	0.0	0.0	0.0	0.0	0.0
4267.7	42.5°	1280.2	261.2	66.4	25.7	0.0	0.0	0.0	0.0	0.0	0.0
6797.8	45°	2213.1	350.2	60.4	27.2	0.0	0.0	0.0	0.0	0.0	0.0
10205.0	47.5°	3660.8	629.5	58.9	27.2	0.0	0.0	0.0	0.0	0.0	0.0
12292.8	50°	4672.3	792.5	61.9	28.7	0.0	0.0	0.0	0.0	0.0	0.0
12554.0	52.5°	4664.7	883.1	64.9	30.2	6.0	0.0	0.0	0.0	0.0	0.0
11571.2	55°	4146.9	899.7	69.4	33.2	19.6	0.0	0.0	0.0	0.0	0.0
9943.9	57.5°	3466.1	821.2	80.0	40.8	36.2	0.0	0.0	0.0	0.0	0.0
9688.7	58°	3345.3	785.0	83.0	42.3	39.3	0.0	0.0	0.0	0.0	0.0
8404.0	60°	2741.5	640.1	105.7	52.8	52.8	0.0	0.0	0.0	0.0	0.0
6889.9	62.5°	1893.1	558.6	120.8	67.9	54.3	0.0	0.0	0.0	0.0	0.0
5079.9	65°	1339.0	504.2	131.3	72.5	43.8	0.0	0.0	0.0	0.0	0.0
3609.5	67.5°	1000.9	465.0	144.9	74.0	22.6	0.0	0.0	0.0	0.0	0.0
2264.4	70°	766.9	436.3	178.1	78.5	6.0	0.0	0.0	0.0	0.0	0.0
1349.6	72.5°	625.0	403.1	215.9	81.5	0.0	0.0	0.0	0.0	0.0	0.0
809.2	75°	517.8	363.8	208.3	89.1	0.0	0.0	0.0	0.0	0.0	0.0
431.8	77.5°	344.2	282.3	190.2	89.1	0.0	0.0	0.0	0.0	0.0	0.0
154.0	80°	120.8	111.7	147.9	78.5	0.0	0.0	0.0	0.0	0.0	0.0
31.7	82.5°	18.1	15.1	21.1	27.2	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°
87.6	0°	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
61.9	2.5°	61.9	61.9	60.4	61.9	61.9	64.9	72.5	83.0	95.1	99.6
52.8	5°	51.3	49.8	48.3	48.3	48.3	52.8	58.9	71.0	84.5	90.6
43.8	7.5°	42.3	40.8	39.3	37.7	37.7	40.8	48.3	61.9	75.5	81.5
36.2	10°	34.7	31.7	30.2	28.7	28.7	31.7	39.3	52.8	67.9	74.0
30.2	12.5°	28.7	24.2	21.1	19.6	18.1	22.6	30.2	42.3	58.9	66.4
22.6	15°	19.6	15.1	10.6	9.1	7.5	12.1	19.6	33.2	49.8	58.9
12.1	17.5°	10.6	4.5	1.5	0.0	0.0	3.0	9.1	24.2	40.8	48.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	30.2	37.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	18.1	25.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	13.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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	4.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.1
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°
87.6	0°	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
104.2	2.5°	107.2	105.7	102.7	99.6	99.6	99.6	104.2	108.7	113.2	113.2
93.6	5°	99.6	99.6	98.1	95.1	95.1	96.6	102.7	110.2	116.2	117.8
86.0	7.5°	92.1	95.1	92.1	90.6	92.1	93.6	99.6	108.7	117.8	120.8
80.0	10°	87.6	89.1	89.1	87.6	87.6	90.6	96.6	108.7	120.8	125.3
72.5	12.5°	81.5	84.5	83.0	83.0	83.0	86.0	93.6	107.2	123.8	129.8
64.9	15°	75.5	80.0	80.0	78.5	78.5	80.0	90.6	105.7	128.3	138.9
55.9	17.5°	69.4	74.0	75.5	72.5	72.5	75.5	86.0	105.7	131.3	149.5
45.3	20°	57.4	64.9	69.4	64.9	64.9	67.9	78.5	99.6	132.8	160.0
33.2	22.5°	45.3	52.8	58.9	57.4	57.4	58.9	72.5	95.1	134.4	178.1
19.6	25°	33.2	40.8	45.3	48.3	48.3	52.8	66.4	92.1	140.4	215.9
9.1	27.5°	19.6	28.7	34.7	37.7	39.3	45.3	61.9	89.1	151.0	270.2
0.0	30°	9.1	16.6	24.2	30.2	30.2	40.8	57.4	86.0	164.5	348.7
0.0	32.5°	0.0	7.5	12.1	21.1	22.6	33.2	52.8	83.0	184.2	424.2
0.0	35°	0.0	0.0	6.0	16.6	16.6	27.2	48.3	80.0	214.4	481.6
0.0	37.5°	0.0	0.0	0.0	12.1	13.6	24.2	46.8	78.5	220.4	486.1
0.0	40°	0.0	0.0	0.0	9.1	10.6	22.6	46.8	80.0	199.3	475.5
0.0	42.5°	0.0	0.0	0.0	6.0	7.5	22.6	46.8	83.0	179.6	487.6
0.0	45°	0.0	0.0	0.0	4.5	6.0	24.2	45.3	81.5	169.1	551.0
0.0	47.5°	0.0	0.0	0.0	6.0	9.1	24.2	43.8	80.0	170.6	760.8
0.0	50°	0.0	0.0	0.0	7.5	10.6	24.2	45.3	77.0	187.2	1170.0
0.0	52.5°	0.0	0.0	0.0	6.0	9.1	27.2	49.8	75.5	203.8	1521.7
0.0	55°	0.0	0.0	0.0	1.5	4.5	34.7	54.3	75.5	229.5	1609.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	39.3	61.9	80.0	271.7	1574.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	39.3	63.4	80.0	274.8	1544.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	39.3	69.4	89.1	295.9	1375.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	33.2	83.0	111.7	308.0	1080.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	27.2	98.1	122.3	317.0	860.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	25.7	101.1	123.8	321.5	685.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	27.2	99.6	132.8	336.6	557.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	30.2	90.6	146.4	336.6	493.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	31.7	84.5	164.5	306.5	427.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	30.2	83.0	191.7	273.2	351.7
0.0	80°	3.0	4.5	4.5	3.0	3.0	25.7	81.5	194.7	232.5	241.5
1.5	82.5°	9.1	12.1	10.6	7.5	7.5	22.6	72.5	163.0	120.8	104.2
9.1	85°	16.6	19.6	19.6	16.6	16.6	21.1	45.3	58.9	40.8	33.2
16.6	87.5°	22.6	25.7	25.7	22.6	22.6	21.1	19.6	18.1	16.6	16.6
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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

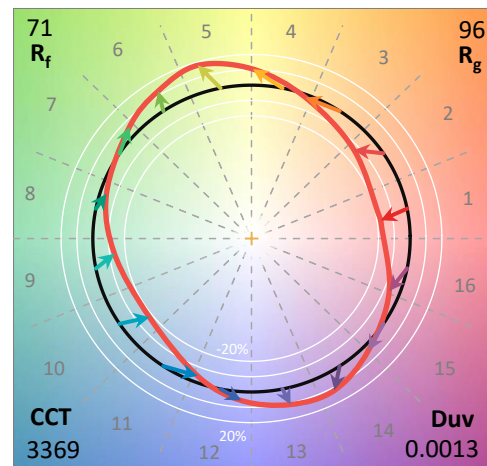
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3369
 CIE u' : 0.2386
 CIE v' : 0.5156
 Duv: 0.0013
 CIE x: 0.4143
 CIE y: 0.3980
 CIE z: 0.1877
 Peak Wavelength (nm): 590
 Dominant Wavelength (nm): 580
 Purity: 43.80166
 R_f: 71.4
 R_g: 96

CRI (Ra): 70.1
 R1: 66.6
 R2: 77.6
 R3: 88.5
 R4: 69.5
 R5: 66.4
 R6: 69.6
 R7: 77.5
 R8: 44.9
 R9: -40.2
 R10: 49.1
 R11: 66.3
 R12: 45.7
 R13: 68.0
 R14: 93.4
 R15: 57.6



Test Conditions

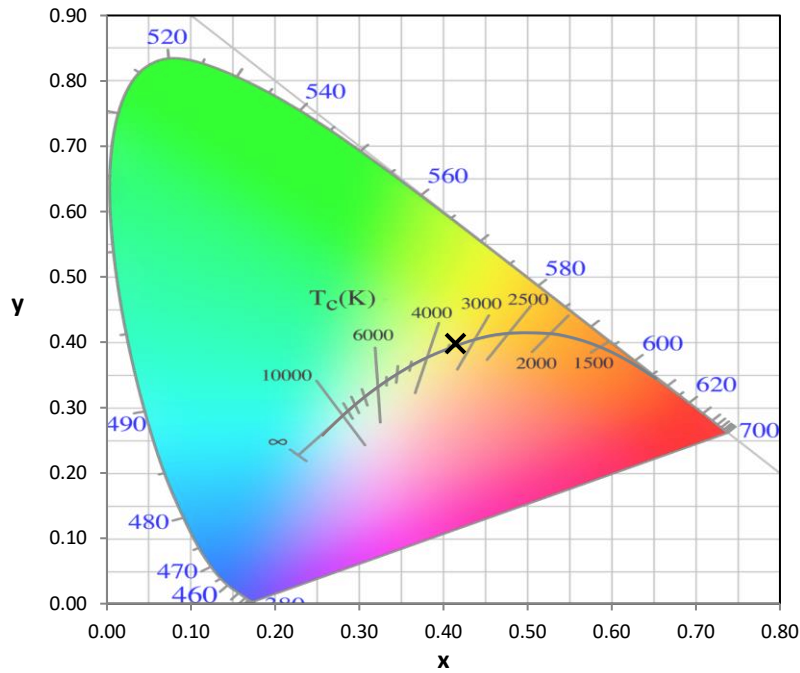
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

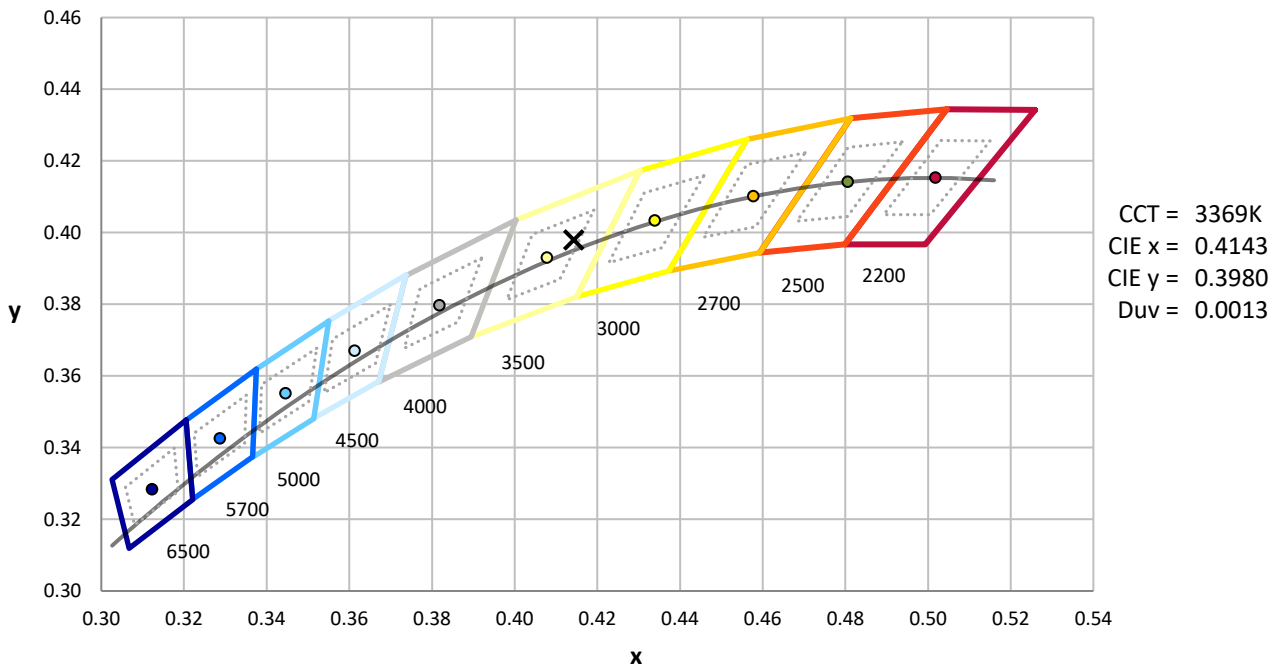
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-5

CIE 1931 Chromaticity Diagram



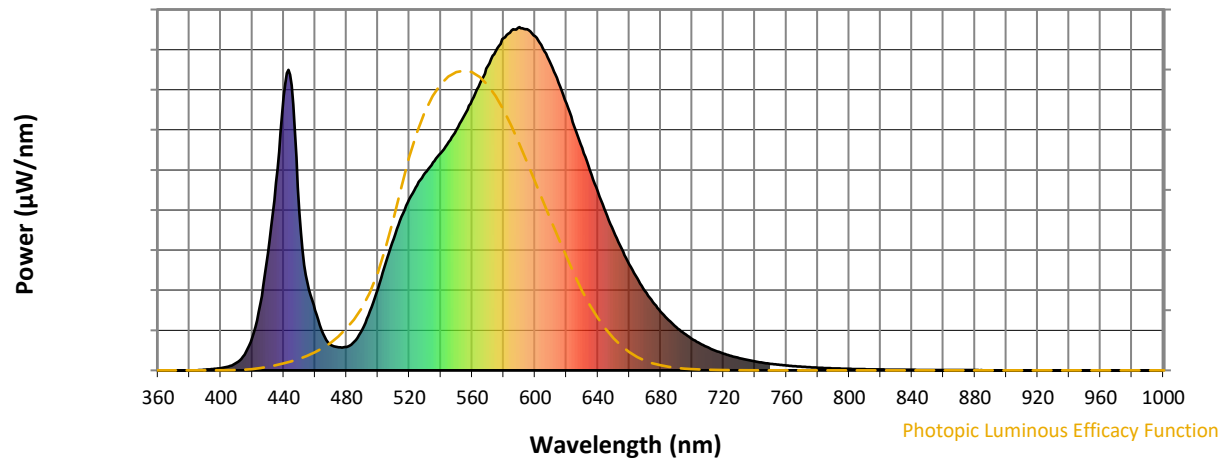
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

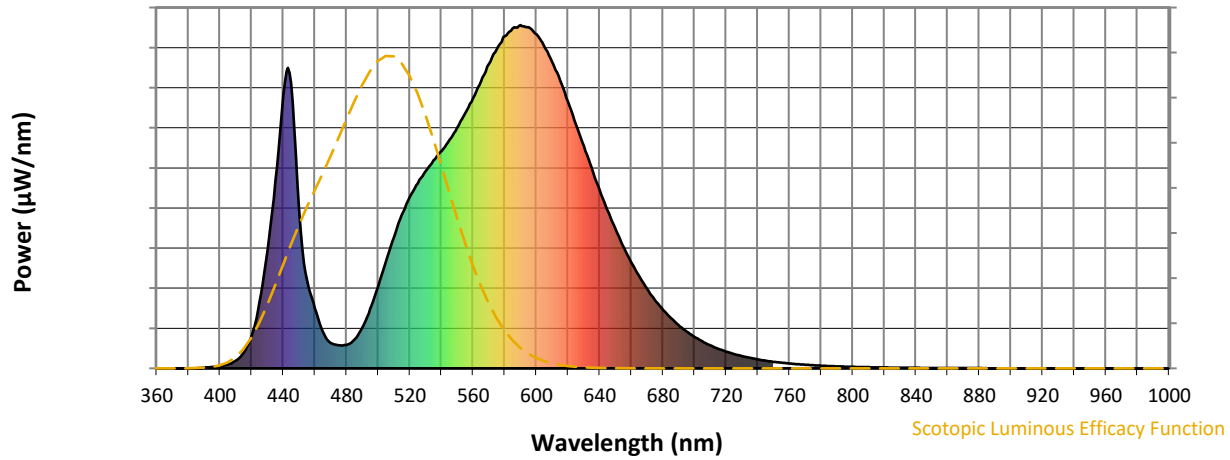


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength

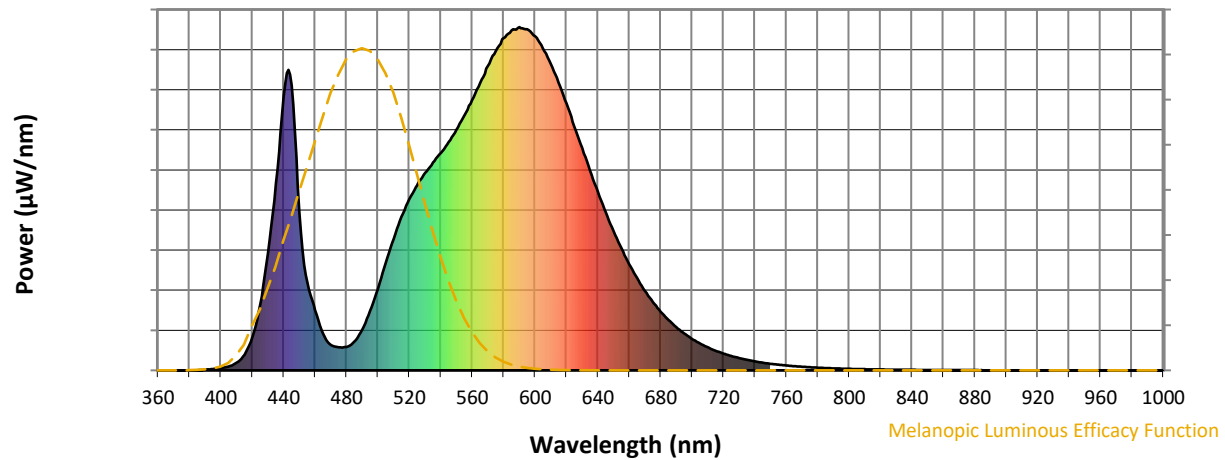


Scotopic Lumens: NR

S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Melanopic Flux vs. Wavelength

Melanopic Lumens: NR
M/P: 2.36

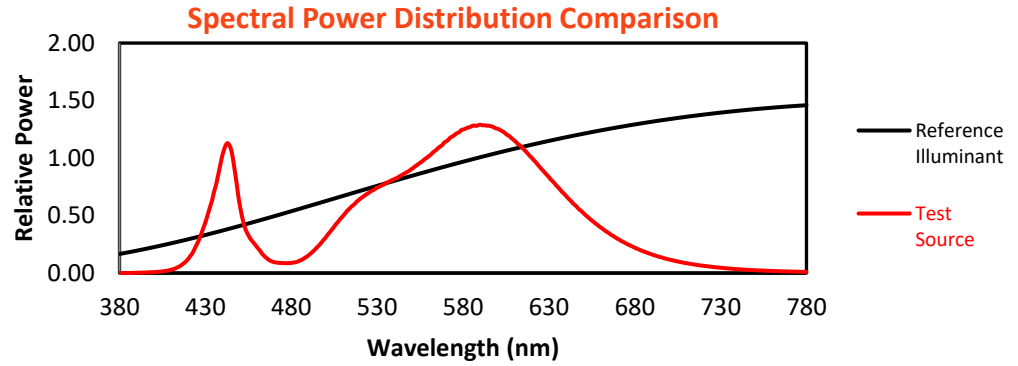
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

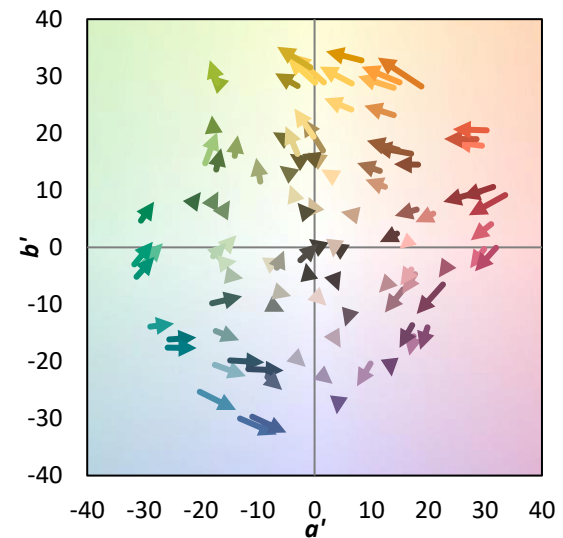
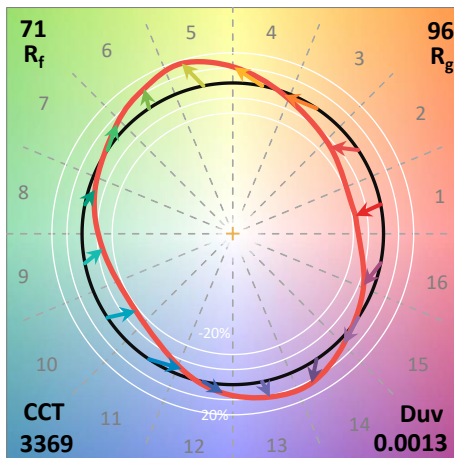
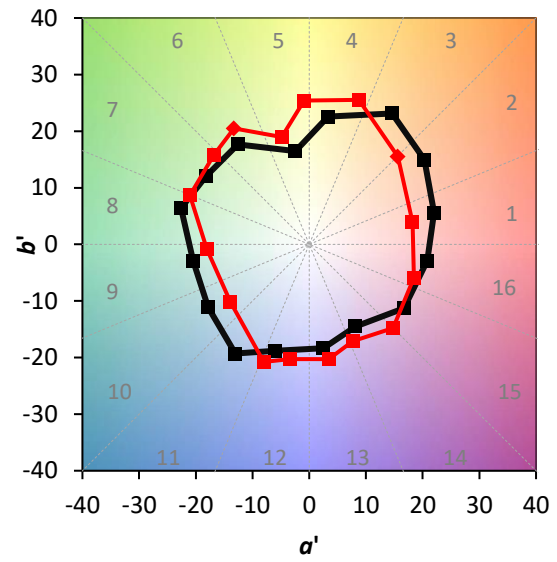
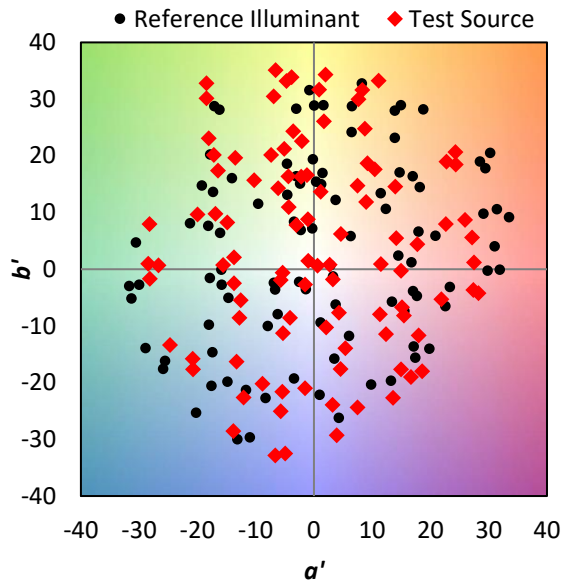
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 CIE $R_a = 70.1$
 $R_g = -40.2$

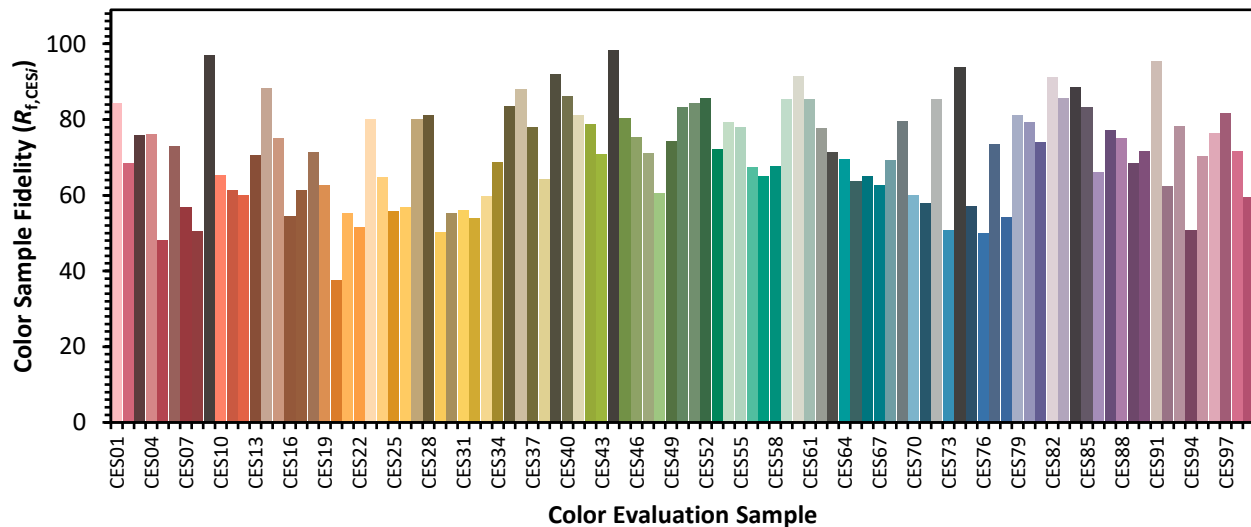


Color Vector Graphics

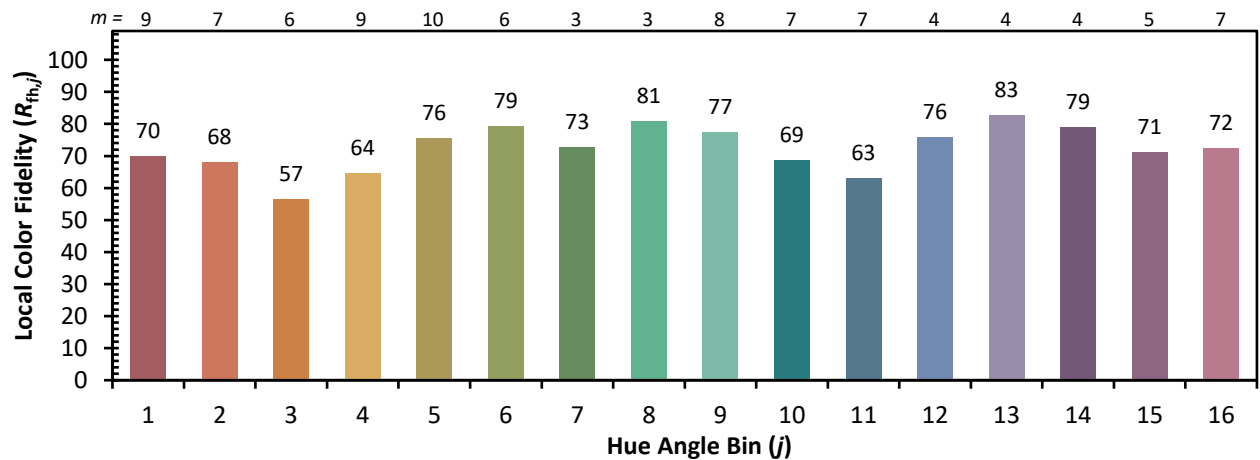
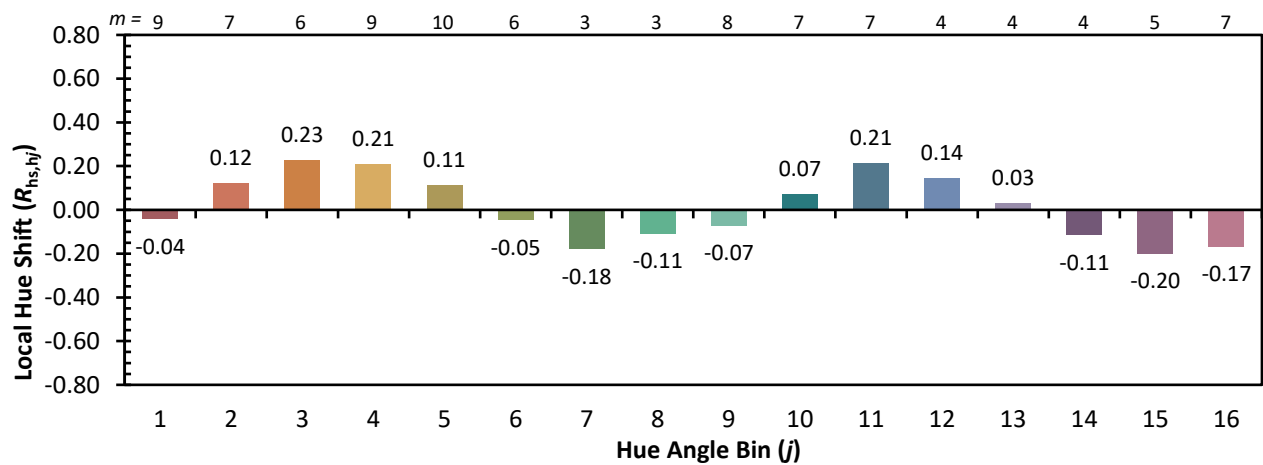
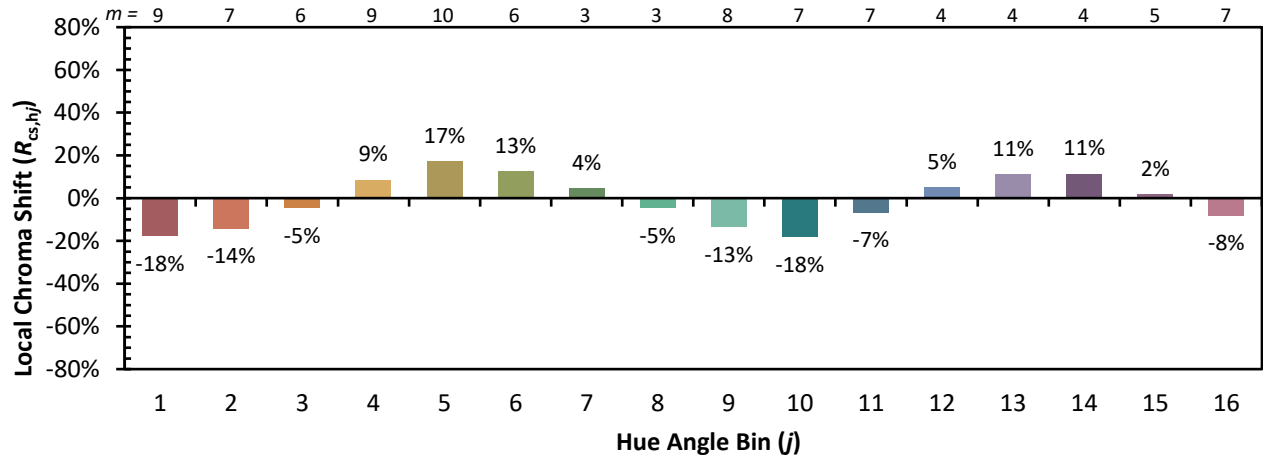


Individual Sample Fidelity Index ($R_{f,i}$)

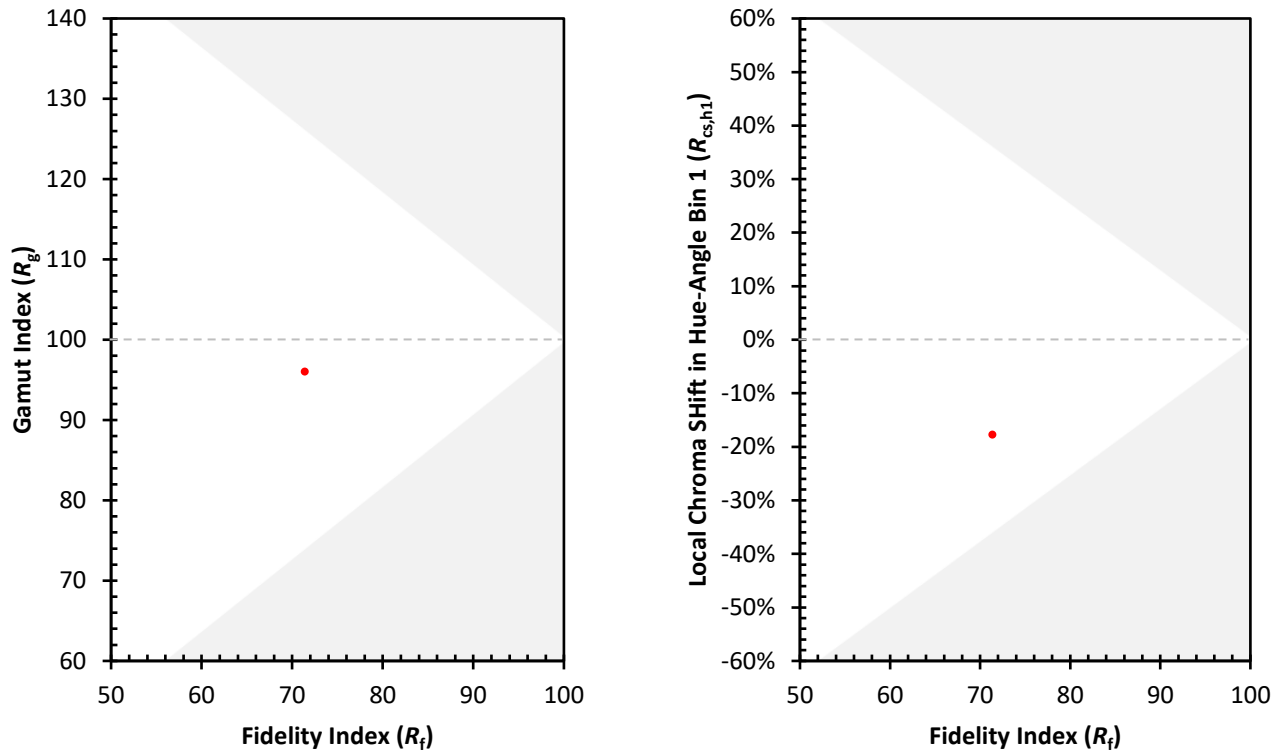
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)