

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: P1049626

Luminaire Tested: **GALN-SA6B-735-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049626
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23948.4 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

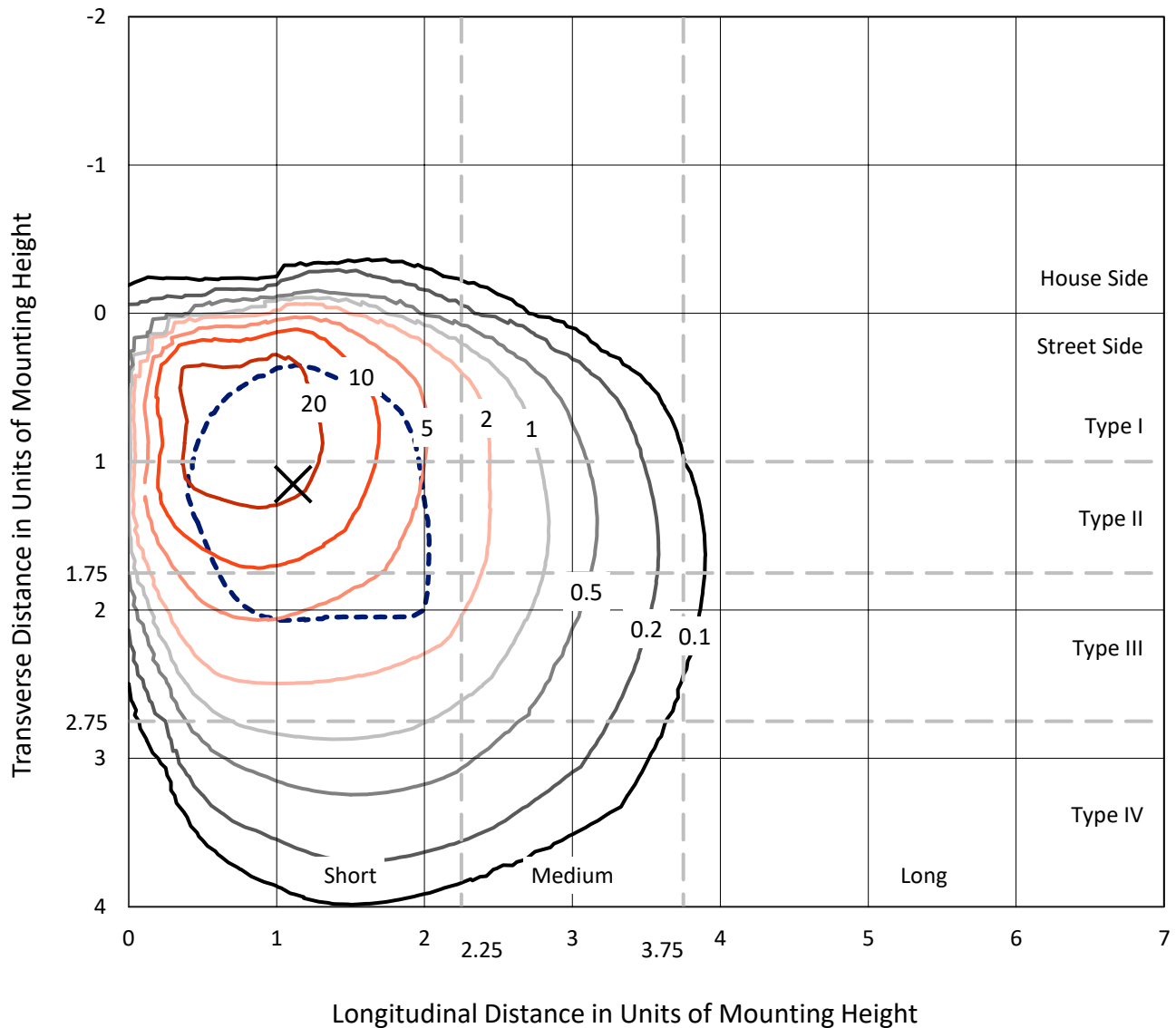
Input Watts (W): 213.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

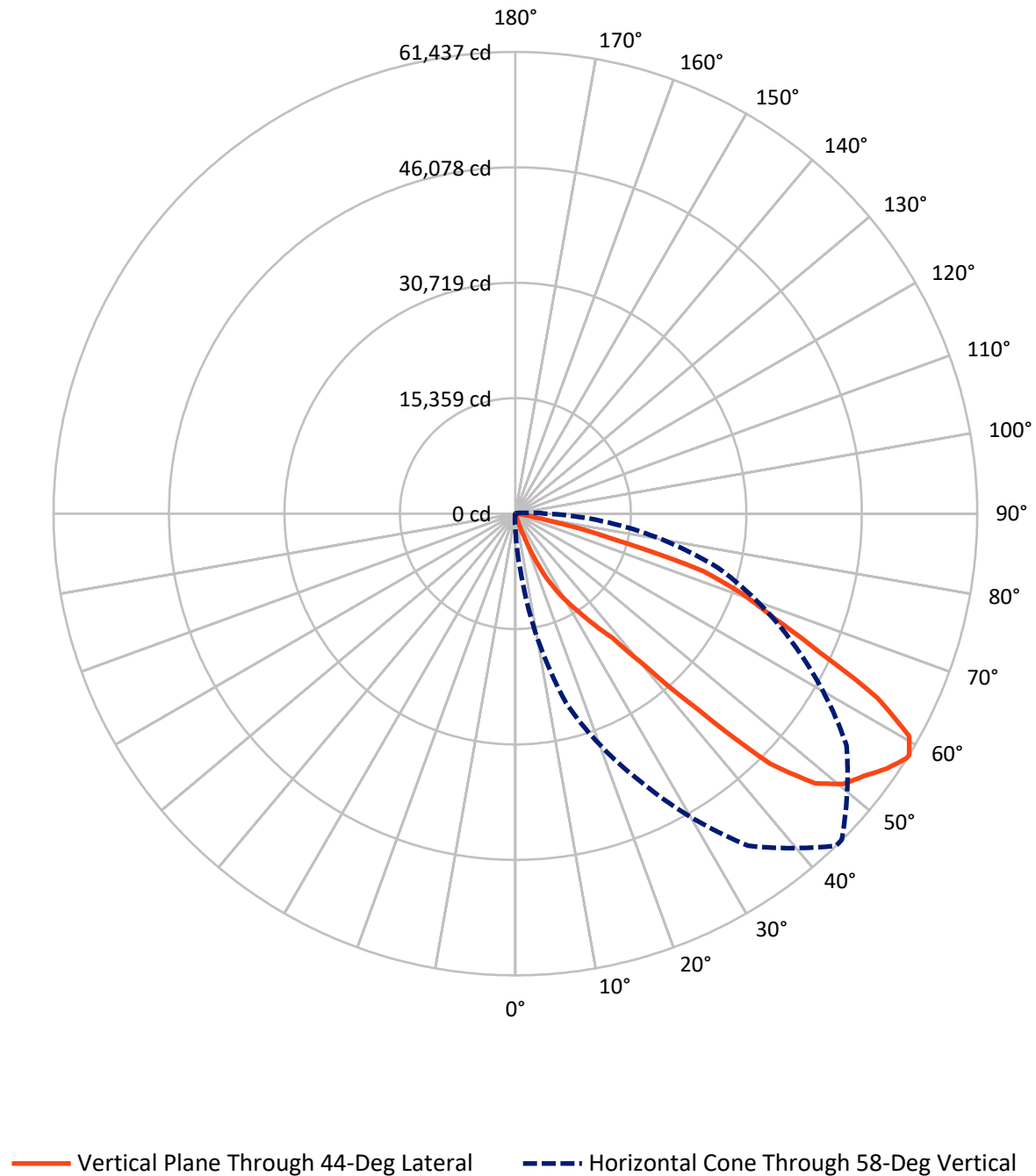
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.7 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	163.5	0.0	163.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	23784.9	0.0	23784.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	23948.4	0.0	23948.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.0
10°-20°	52.5	0.2
20°-30°	567.3	2.4
30°-40°	1677.8	7.0
40°-50°	5000.8	20.9
50°-60°	7935.1	33.1
60°-70°	6618.8	27.6
70°-80°	2041.3	8.5
80°-90°	45.3	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°	23948.4	100.0
0°-180°	23948.4	100.0



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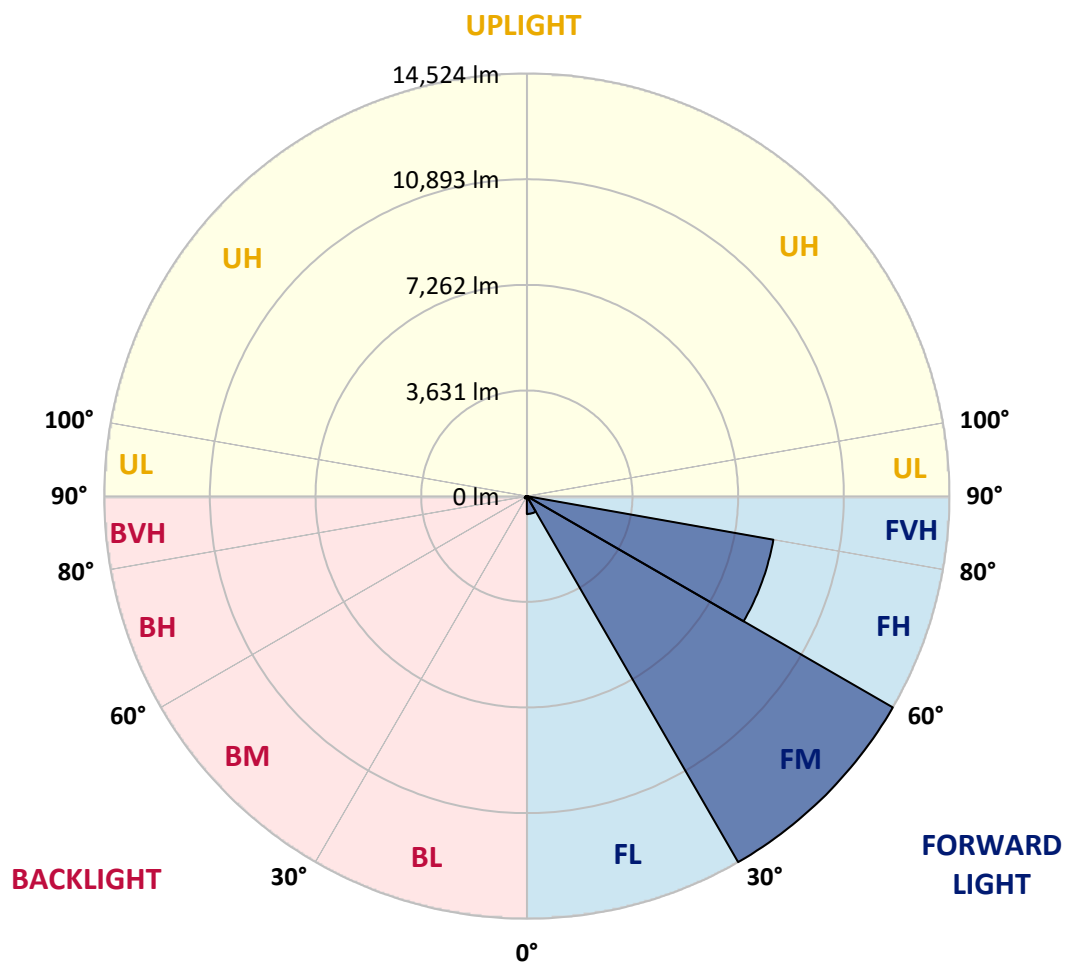
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	613.2	2.6			
FM	(30°-60°)	14524.2	60.6			
FH	(60°-80°)	8604.3	35.9			G4/12000
FVH	(80°-90°)	43.1	0.2			G1/100
BL	(0°-30°)	16.0	0.1	B0/110		
BM	(30°-60°)	89.5	0.4	B0/220		
BH	(60°-80°)	55.8	0.2	B0/110		G0/110
BVH	(80°-90°)	2.2	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°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9
2.5°	135.7	135.7	130.3	123.0	115.8	108.5	106.7	103.1	101.3	99.5
5°	141.1	141.1	139.3	133.9	126.6	121.2	121.2	115.8	112.2	108.5
7.5°	144.7	146.5	150.2	148.3	144.7	139.3	139.3	135.7	130.3	121.2
10°	150.2	155.6	162.8	166.4	168.2	168.2	166.4	164.6	155.6	142.9
12.5°	155.6	166.4	184.5	202.6	213.5	227.9	226.1	222.5	199.0	171.9
15°	166.4	182.7	220.7	273.2	354.6	405.2	425.1	407.0	329.3	231.6
17.5°	179.1	206.2	320.2	571.7	937.1	1110.8	1215.7	1130.7	749.0	439.6
20°	191.8	251.5	595.2	1481.7	2431.4	2999.5	3156.9	2910.8	1868.8	837.6
22.5°	213.5	352.8	1206.7	3062.8	5239.1	6091.2	6252.2	5465.3	3529.6	1653.5
25°	258.7	512.0	2080.5	4991.3	7818.9	9257.2	9190.2	8159.0	5725.8	2641.3
27.5°	323.8	745.3	3146.0	7091.7	10290.1	11558.3	11710.3	10434.9	7632.6	3884.1
30°	417.9	1033.0	4289.4	8774.1	12271.1	13642.4	13667.7	12348.9	9338.6	4975.0
32.5°	508.4	1304.4	5289.8	10400.5	14223.1	15726.5	15838.7	14215.9	10612.2	6111.1
35°	577.1	1481.7	6302.9	11829.7	16191.4	18262.8	18255.6	16328.9	12121.0	7126.0
37.5°	582.5	1658.9	7220.1	13291.4	18684.4	21003.6	21233.4	19109.5	13944.5	8381.6
40°	569.9	1857.9	8381.6	15570.9	23176.4	26734.8	26937.5	24260.0	17602.5	10530.8
42.5°	584.3	2203.5	10266.6	19780.7	30635.3	35746.0	36136.7	33321.8	24326.9	14916.0
45°	660.3	2852.9	14215.9	26823.5	41267.3	47497.9	47367.6	43313.4	32151.3	21591.6
47.5°	911.8	4443.1	20070.1	33678.2	48062.3	53610.8	53723.0	48767.9	36717.5	26724.0
50°	1402.1	6798.6	24989.1	37301.8	50984.0	56550.6	56445.7	50719.9	38452.4	29251.3
52.5°	1823.6	8502.8	27456.7	38573.6	51358.5	58003.3	57996.1	51233.7	38721.9	29468.4
55°	1928.5	8631.2	27476.6	38642.3	52197.9	59904.7	60143.5	52498.2	39071.1	28520.4
57.5°	1886.9	7641.6	26329.6	39040.3	53692.2	61375.5	61388.1	53723.0	39957.5	27939.7
58°	1850.7	7486.0	26098.0	39266.5	53949.1	61437.0	61406.2	53779.1	40679.4	27918.0
60°	1648.1	6500.1	25195.3	39843.6	53567.4	60174.2	59886.6	52554.3	40572.6	27695.5
62.5°	1295.3	5070.9	24307.0	39176.0	49475.2	54061.3	54180.7	46528.2	36987.0	26398.4
65°	1031.2	3779.2	22454.5	34363.8	40740.9	44395.3	44840.3	37835.5	30872.3	22353.2
67.5°	821.3	2731.7	18836.3	27359.0	32238.1	37052.1	37376.0	31766.0	23918.1	17126.7
70°	667.6	1847.1	13002.0	20008.6	26590.1	32002.9	32022.8	26389.3	17852.2	11221.8
72.5°	591.6	1279.0	7547.6	14592.2	21560.8	26078.1	25551.7	21414.3	13720.2	6646.6
75°	512.0	848.5	3701.4	8920.7	13072.5	13161.2	13362.0	9933.8	6858.3	3160.5
77.5°	421.5	602.4	1458.1	2436.9	3920.3	5018.4	5204.8	3943.8	2281.3	777.9
80°	289.5	285.8	392.6	747.2	1121.6	1405.7	1311.6	1014.9	597.0	298.5
82.5°	124.8	135.7	177.3	213.5	173.7	168.2	161.0	103.1	79.6	61.5
85°	39.8	36.2	38.0	38.0	30.8	23.5	23.5	10.9	0.0	0.0
87.5°	19.9	16.3	16.3	14.5	9.0	3.6	1.8	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°
104.9	0°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9
97.7	2.5°	95.9	95.9	92.3	88.6	86.8	83.2	81.4	79.6	77.8	76.0
104.9	5°	101.3	99.5	94.1	88.6	83.2	77.8	74.2	70.6	66.9	65.1
115.8	7.5°	110.4	106.7	95.9	86.8	79.6	72.4	68.7	63.3	59.7	54.3
128.4	10°	121.2	114.0	99.5	88.6	77.8	68.7	63.3	57.9	52.5	45.2
146.5	12.5°	135.7	123.0	104.9	86.8	74.2	63.3	57.9	50.7	45.2	39.8
170.1	15°	148.3	132.1	106.7	86.8	70.6	57.9	50.7	43.4	38.0	30.8
213.5	17.5°	166.4	139.3	104.9	81.4	65.1	50.7	43.4	38.0	28.9	18.1
316.6	20°	197.2	144.7	101.3	76.0	56.1	41.6	32.6	25.3	12.7	3.6
475.8	22.5°	246.0	159.2	97.7	68.7	48.8	32.6	21.7	9.0	0.0	0.0
723.6	25°	340.1	184.5	97.7	65.1	43.4	23.5	7.2	0.0	0.0	0.0
1027.6	27.5°	452.3	218.9	97.7	56.1	34.4	12.7	0.0	0.0	0.0	0.0
1400.2	30°	566.2	256.9	97.7	48.8	27.1	1.8	0.0	0.0	0.0	0.0
1724.1	32.5°	674.8	289.5	99.5	41.6	18.1	0.0	0.0	0.0	0.0	0.0
2172.7	35°	785.1	294.9	97.7	36.2	10.9	0.0	0.0	0.0	0.0	0.0
2722.7	37.5°	926.3	284.0	92.3	32.6	5.4	0.0	0.0	0.0	0.0	0.0
3582.0	40°	1139.7	289.5	86.8	30.8	1.8	0.0	0.0	0.0	0.0	0.0
5114.3	42.5°	1534.1	313.0	79.6	30.8	0.0	0.0	0.0	0.0	0.0	0.0
8146.4	45°	2652.1	419.7	72.4	32.6	0.0	0.0	0.0	0.0	0.0	0.0
12229.5	47.5°	4387.1	754.4	70.6	32.6	0.0	0.0	0.0	0.0	0.0	0.0
14731.5	50°	5599.2	949.8	74.2	34.4	0.0	0.0	0.0	0.0	0.0	0.0
15044.5	52.5°	5590.1	1058.3	77.8	36.2	7.2	0.0	0.0	0.0	0.0	0.0
13866.7	55°	4969.6	1078.2	83.2	39.8	23.5	0.0	0.0	0.0	0.0	0.0
11916.5	57.5°	4153.7	984.1	95.9	48.8	43.4	0.0	0.0	0.0	0.0	0.0
11610.8	58°	4009.0	940.7	99.5	50.7	47.0	0.0	0.0	0.0	0.0	0.0
10071.2	60°	3285.3	767.1	126.6	63.3	63.3	0.0	0.0	0.0	0.0	0.0
8256.7	62.5°	2268.6	669.4	144.7	81.4	65.1	0.0	0.0	0.0	0.0	0.0
6087.6	65°	1604.7	604.2	157.4	86.8	52.5	0.0	0.0	0.0	0.0	0.0
4325.6	67.5°	1199.4	557.2	173.7	88.6	27.1	0.0	0.0	0.0	0.0	0.0
2713.6	70°	919.0	522.8	213.5	94.1	7.2	0.0	0.0	0.0	0.0	0.0
1617.3	72.5°	749.0	483.0	258.7	97.7	0.0	0.0	0.0	0.0	0.0	0.0
969.7	75°	620.5	436.0	249.7	106.7	0.0	0.0	0.0	0.0	0.0	0.0
517.4	77.5°	412.5	338.3	227.9	106.7	0.0	0.0	0.0	0.0	0.0	0.0
184.5	80°	144.7	133.9	177.3	94.1	0.0	0.0	0.0	0.0	0.0	0.0
38.0	82.5°	21.7	18.1	25.3	32.6	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°
104.9	0°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9
74.2	2.5°	74.2	74.2	72.4	74.2	74.2	77.8	86.8	99.5	114.0	119.4
63.3	5°	61.5	59.7	57.9	57.9	57.9	63.3	70.6	85.0	101.3	108.5
52.5	7.5°	50.7	48.8	47.0	45.2	45.2	48.8	57.9	74.2	90.5	97.7
43.4	10°	41.6	38.0	36.2	34.4	34.4	38.0	47.0	63.3	81.4	88.6
36.2	12.5°	34.4	28.9	25.3	23.5	21.7	27.1	36.2	50.7	70.6	79.6
27.1	15°	23.5	18.1	12.7	10.9	9.0	14.5	23.5	39.8	59.7	70.6
14.5	17.5°	12.7	5.4	1.8	0.0	0.0	3.6	10.9	28.9	48.8	57.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	36.2	45.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	21.7	30.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	16.3
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
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	5.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.5
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°
104.9	0°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9
124.8	2.5°	128.4	126.6	123.0	119.4	119.4	119.4	124.8	130.3	135.7	135.7
112.2	5°	119.4	119.4	117.6	114.0	114.0	115.8	123.0	132.1	139.3	141.1
103.1	7.5°	110.4	114.0	110.4	108.5	110.4	112.2	119.4	130.3	141.1	144.7
95.9	10°	104.9	106.7	106.7	104.9	104.9	108.5	115.8	130.3	144.7	150.2
86.8	12.5°	97.7	101.3	99.5	99.5	99.5	103.1	112.2	128.4	148.3	155.6
77.8	15°	90.5	95.9	95.9	94.1	94.1	95.9	108.5	126.6	153.8	166.4
66.9	17.5°	83.2	88.6	90.5	86.8	86.8	90.5	103.1	126.6	157.4	179.1
54.3	20°	68.7	77.8	83.2	77.8	77.8	81.4	94.1	119.4	159.2	191.8
39.8	22.5°	54.3	63.3	70.6	68.7	68.7	70.6	86.8	114.0	161.0	213.5
23.5	25°	39.8	48.8	54.3	57.9	57.9	63.3	79.6	110.4	168.2	258.7
10.9	27.5°	23.5	34.4	41.6	45.2	47.0	54.3	74.2	106.7	180.9	323.8
0.0	30°	10.9	19.9	28.9	36.2	36.2	48.8	68.7	103.1	197.2	417.9
0.0	32.5°	0.0	9.0	14.5	25.3	27.1	39.8	63.3	99.5	220.7	508.4
0.0	35°	0.0	0.0	7.2	19.9	19.9	32.6	57.9	95.9	256.9	577.1
0.0	37.5°	0.0	0.0	0.0	14.5	16.3	28.9	56.1	94.1	264.1	582.5
0.0	40°	0.0	0.0	0.0	10.9	12.7	27.1	56.1	95.9	238.8	569.9
0.0	42.5°	0.0	0.0	0.0	7.2	9.0	27.1	56.1	99.5	215.3	584.3
0.0	45°	0.0	0.0	0.0	5.4	7.2	28.9	54.3	97.7	202.6	660.3
0.0	47.5°	0.0	0.0	0.0	7.2	10.9	28.9	52.5	95.9	204.4	911.8
0.0	50°	0.0	0.0	0.0	9.0	12.7	28.9	54.3	92.3	224.3	1402.1
0.0	52.5°	0.0	0.0	0.0	7.2	10.9	32.6	59.7	90.5	244.2	1823.6
0.0	55°	0.0	0.0	0.0	1.8	5.4	41.6	65.1	90.5	275.0	1928.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	47.0	74.2	95.9	325.6	1886.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	47.0	76.0	95.9	329.3	1850.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	47.0	83.2	106.7	354.6	1648.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	39.8	99.5	133.9	369.1	1295.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	32.6	117.6	146.5	379.9	1031.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	30.8	121.2	148.3	385.3	821.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	32.6	119.4	159.2	403.4	667.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	36.2	108.5	175.5	403.4	591.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	38.0	101.3	197.2	367.2	512.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	36.2	99.5	229.8	327.4	421.5
0.0	80°	3.6	5.4	5.4	3.6	3.6	30.8	97.7	233.4	278.6	289.5
1.8	82.5°	10.9	14.5	12.7	9.0	9.0	27.1	86.8	195.4	144.7	124.8
10.9	85°	19.9	23.5	23.5	19.9	19.9	25.3	54.3	70.6	48.8	39.8
19.9	87.5°	27.1	30.8	30.8	27.1	27.1	25.3	23.5	21.7	19.9	19.9
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: SP1-2407-184-5

Test Date: 10/10/2024

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

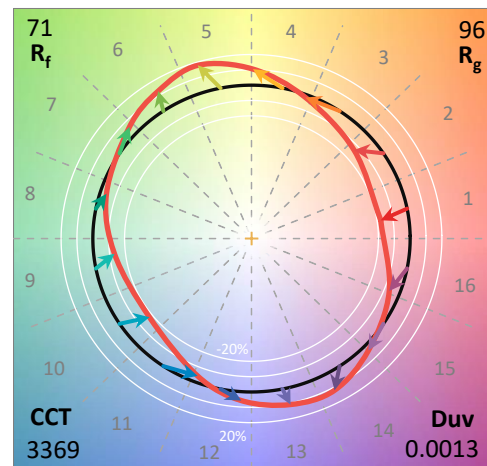
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

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	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

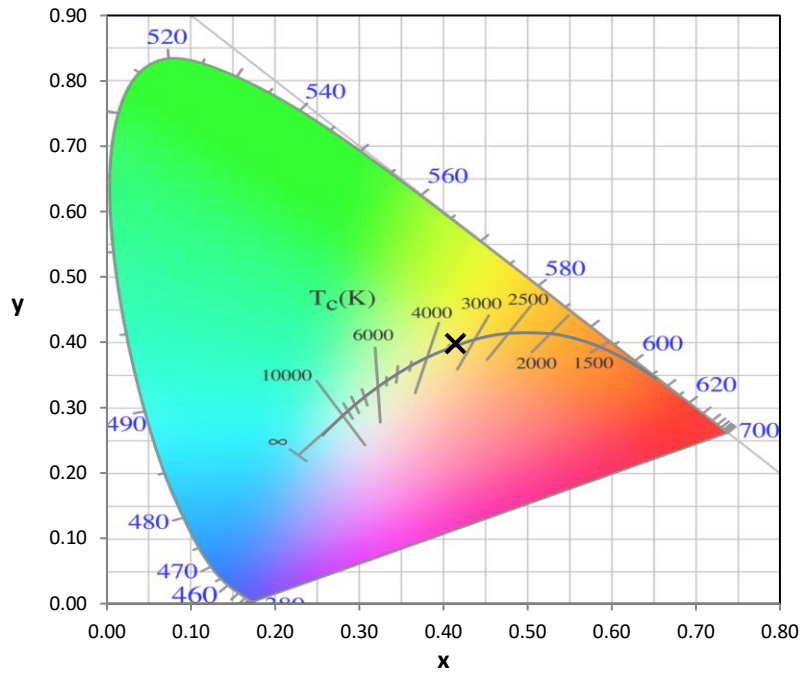
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

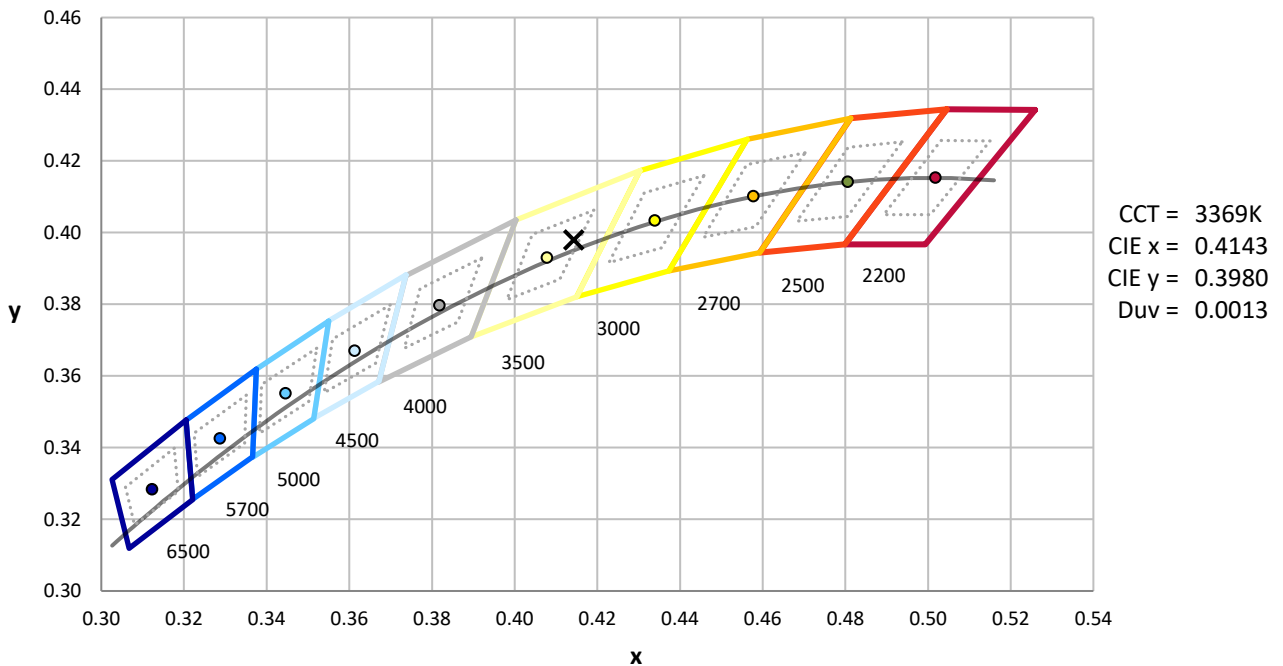
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



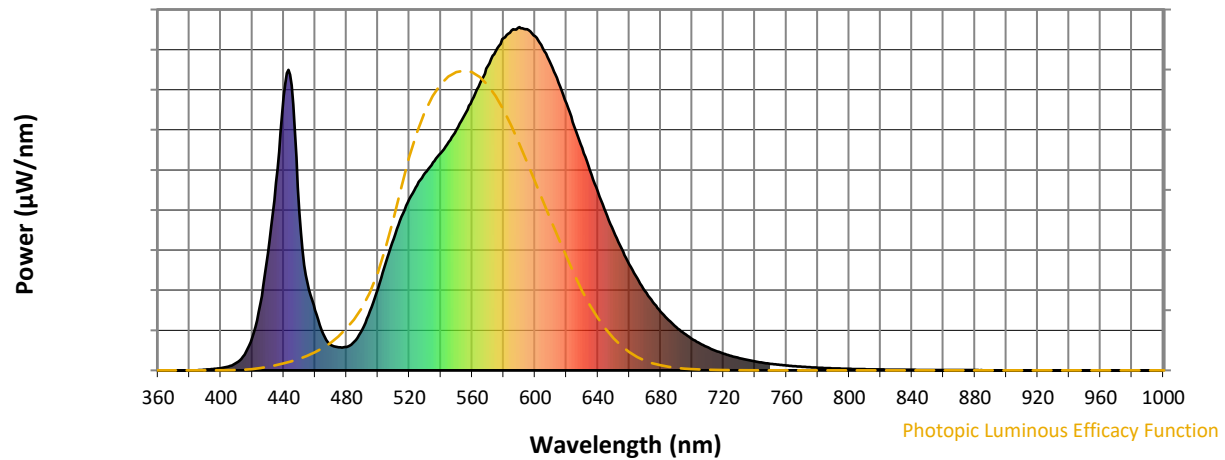
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

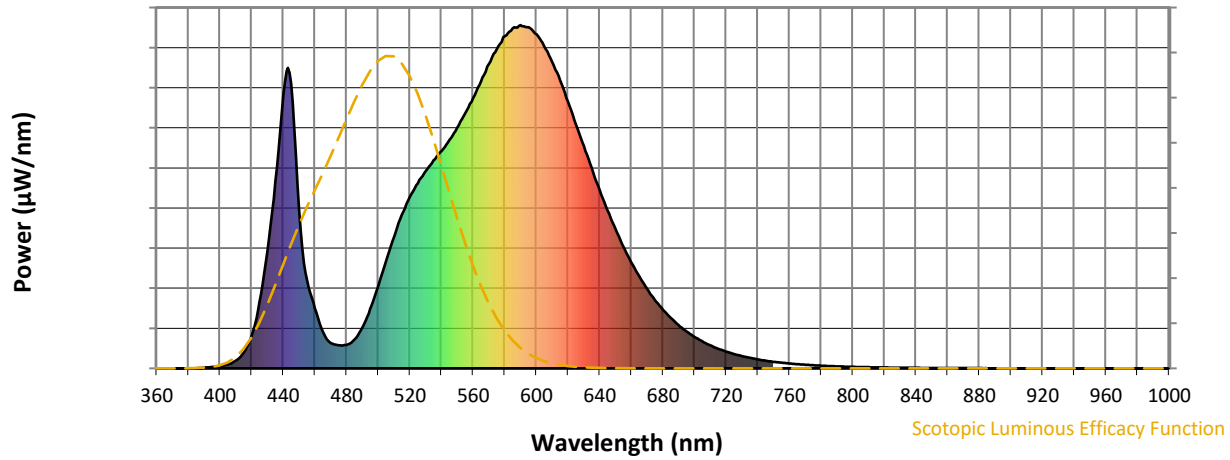


Photopic Lumens: NR

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

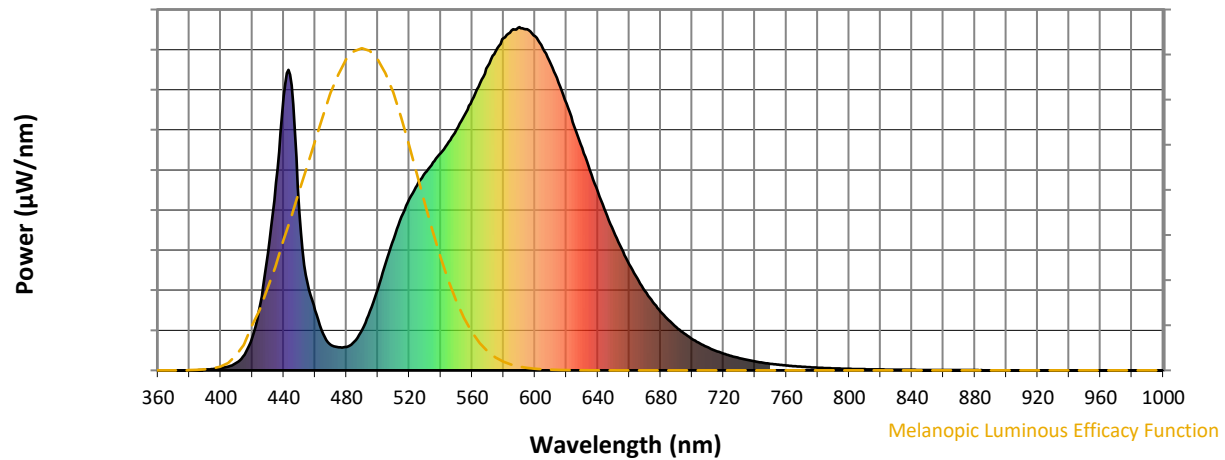


Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength

Melanopic Lumens: NR
M/P: 2.36

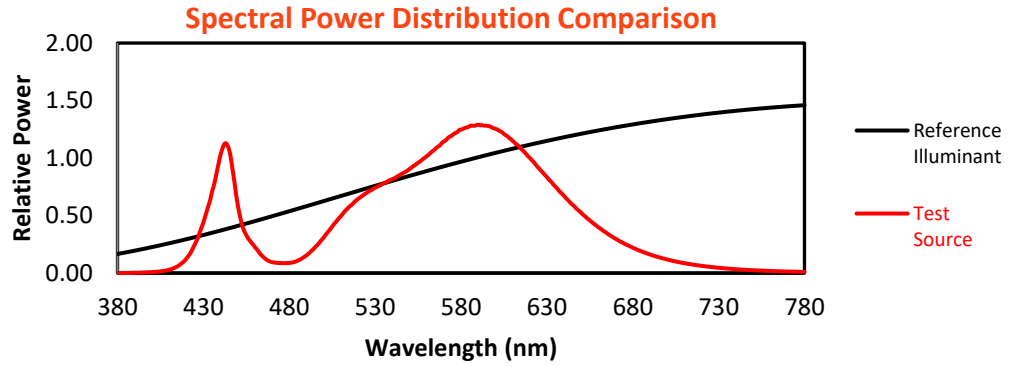
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	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

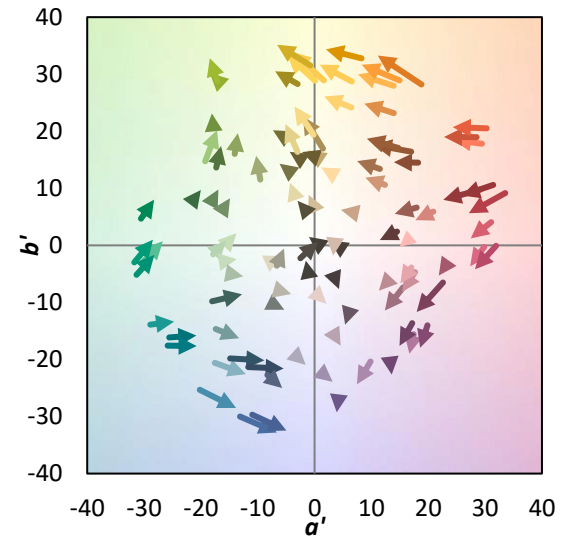
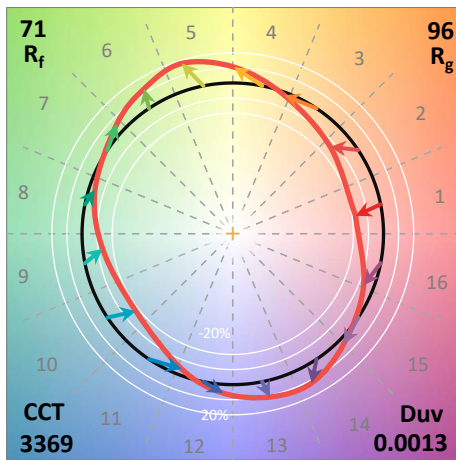
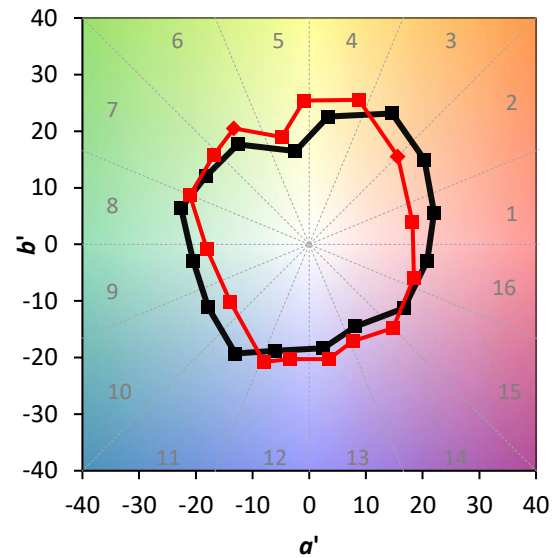
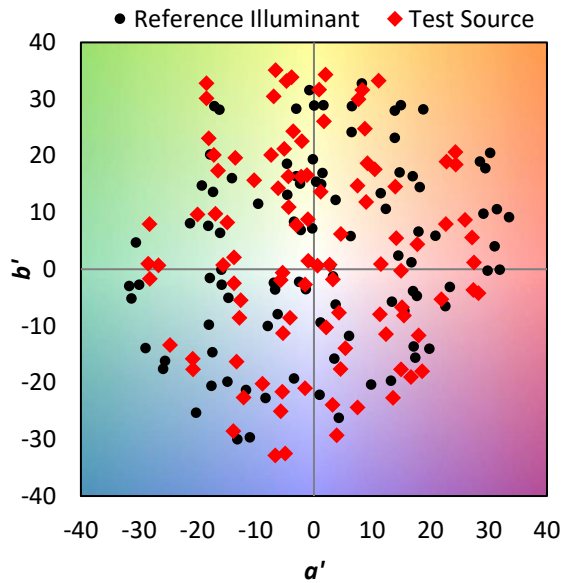
TM-30-18

Summary

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

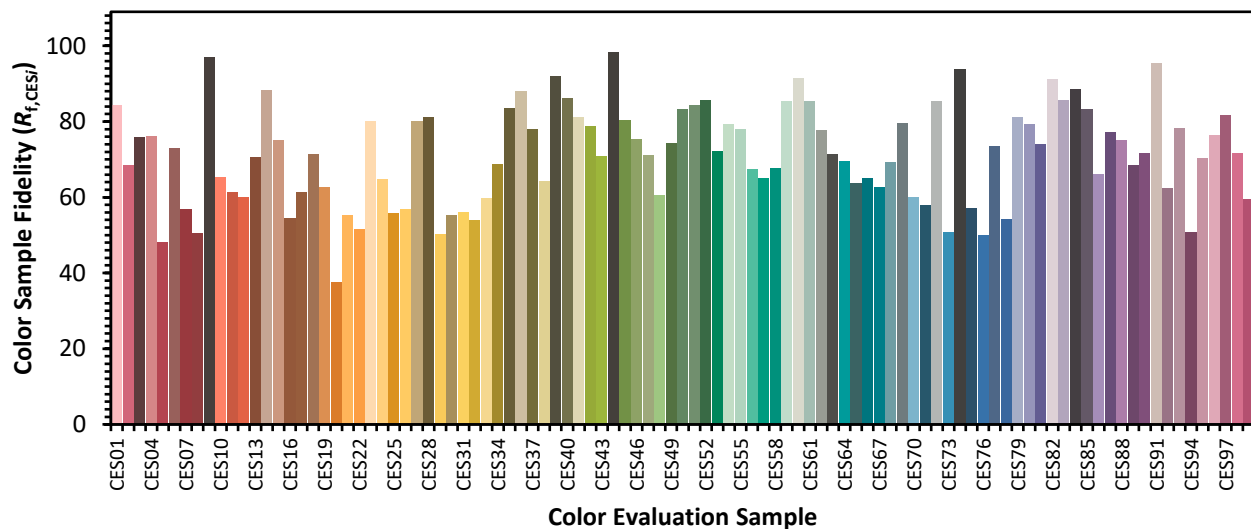


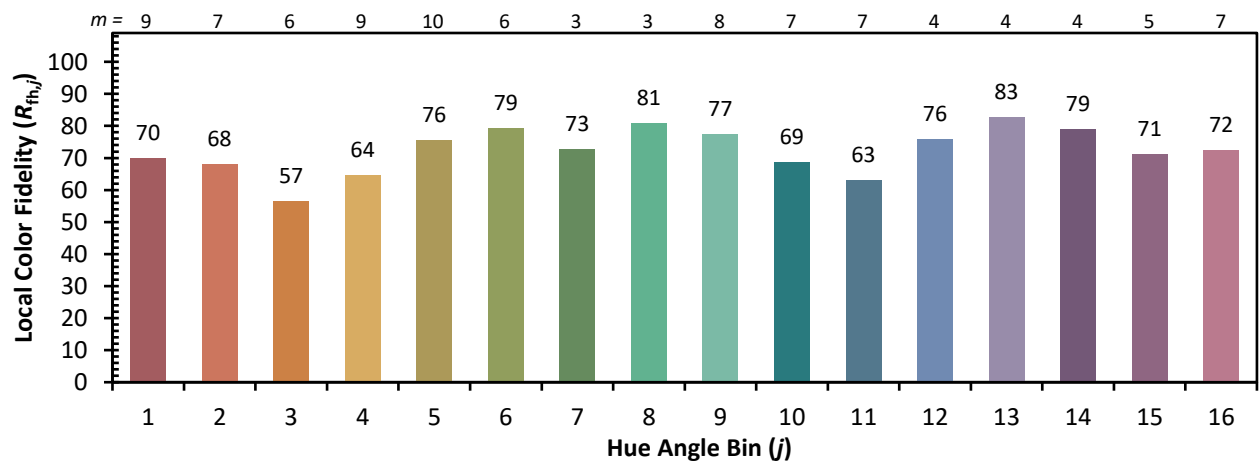
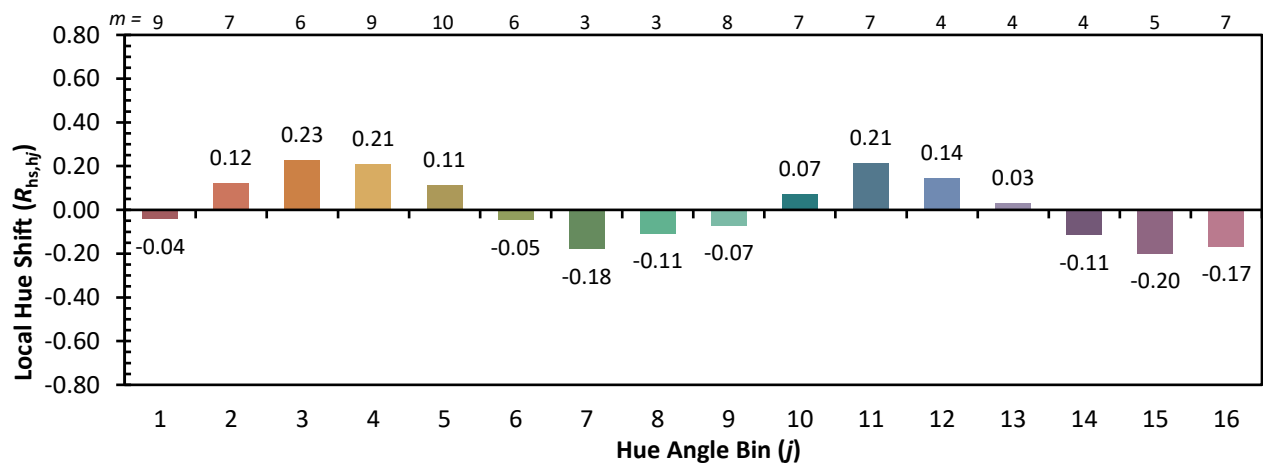
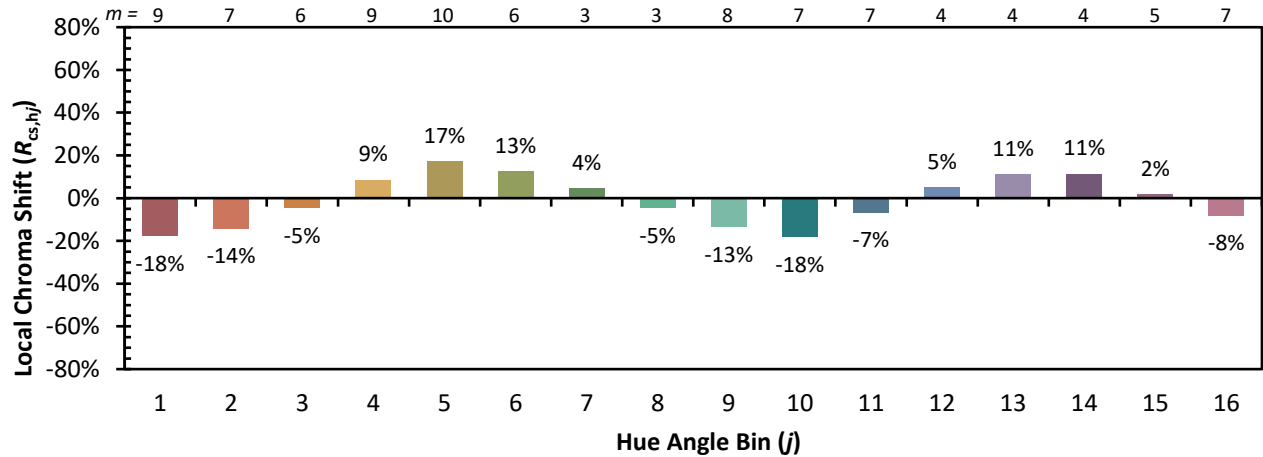
Color Vector Graphics



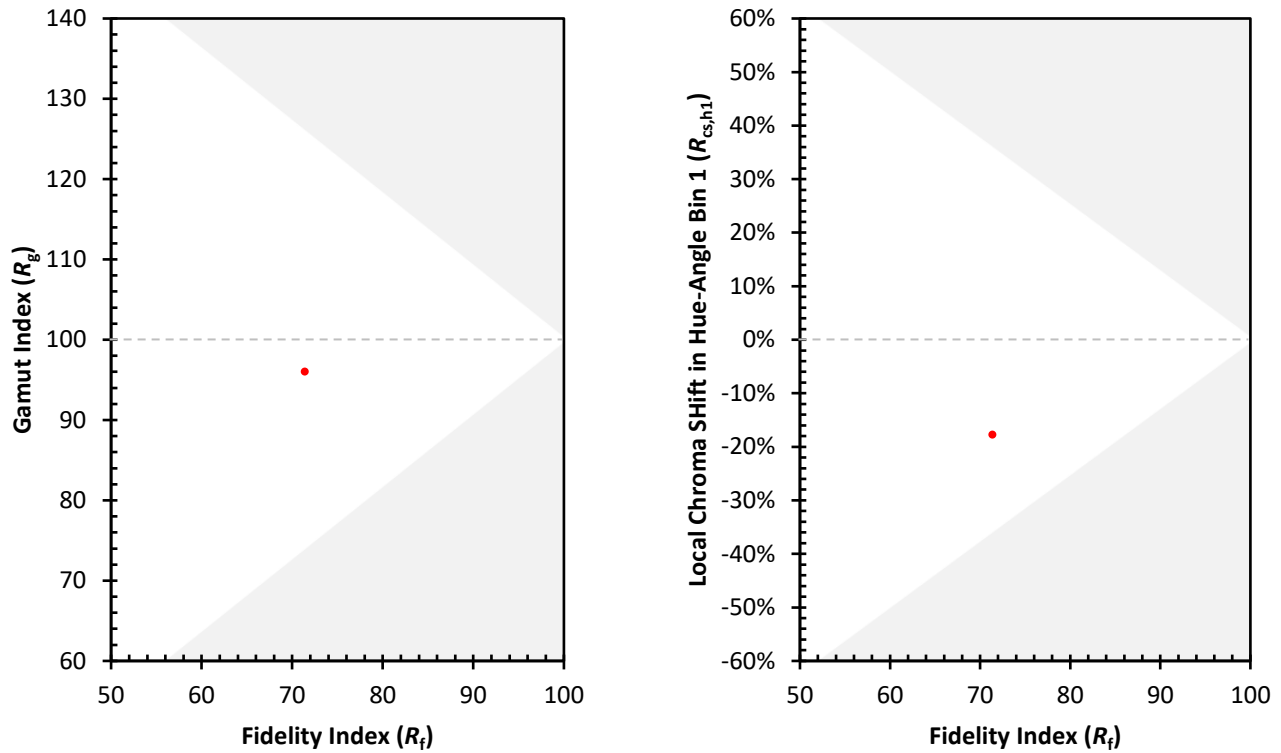
Individual Sample Fidelity Index ($R_{f,i}$)

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)