

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: P1049662

Luminaire Tested: **GALN-SA6B-750-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049662
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24452.2 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

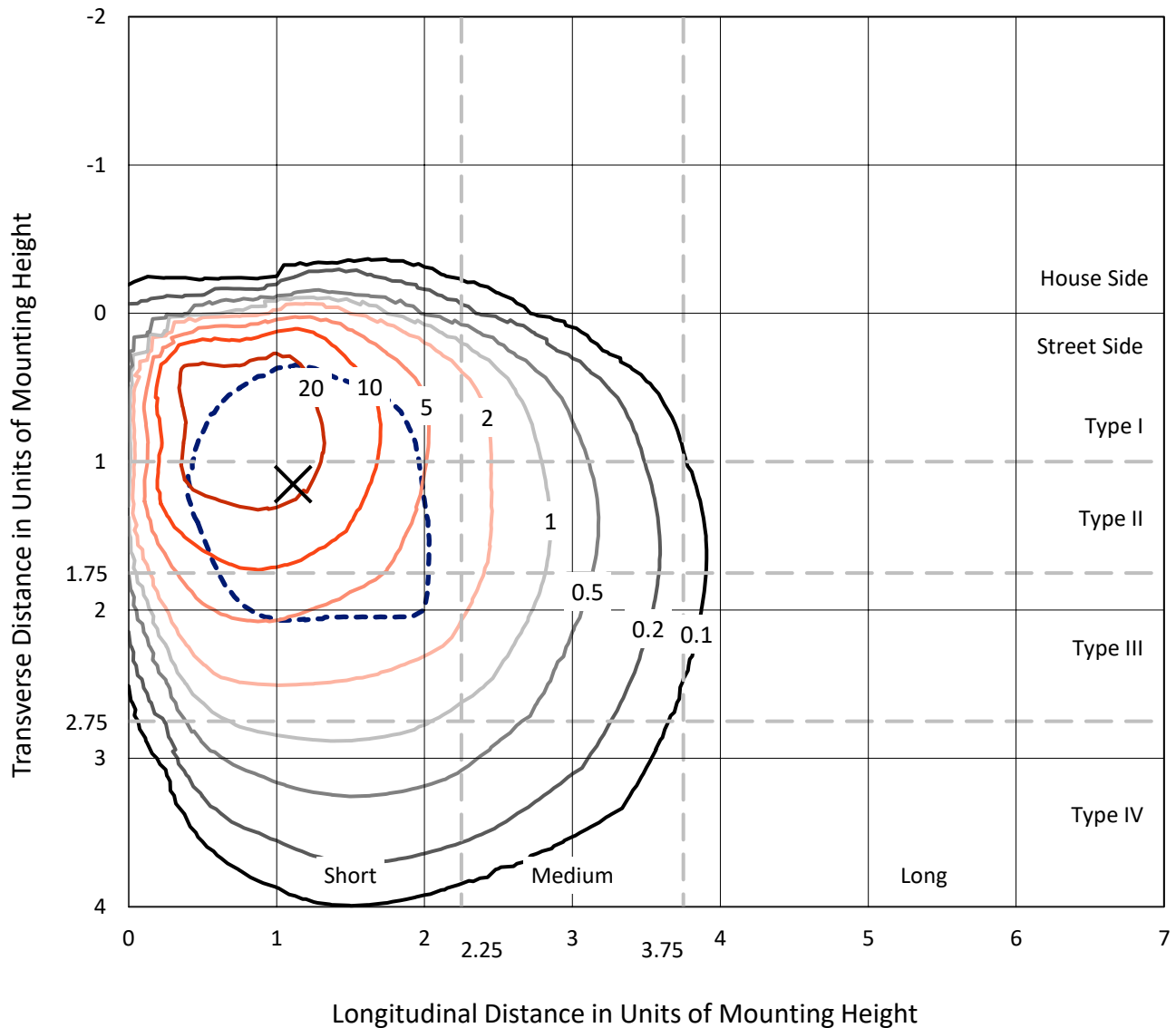
Input Watts (W): 213.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

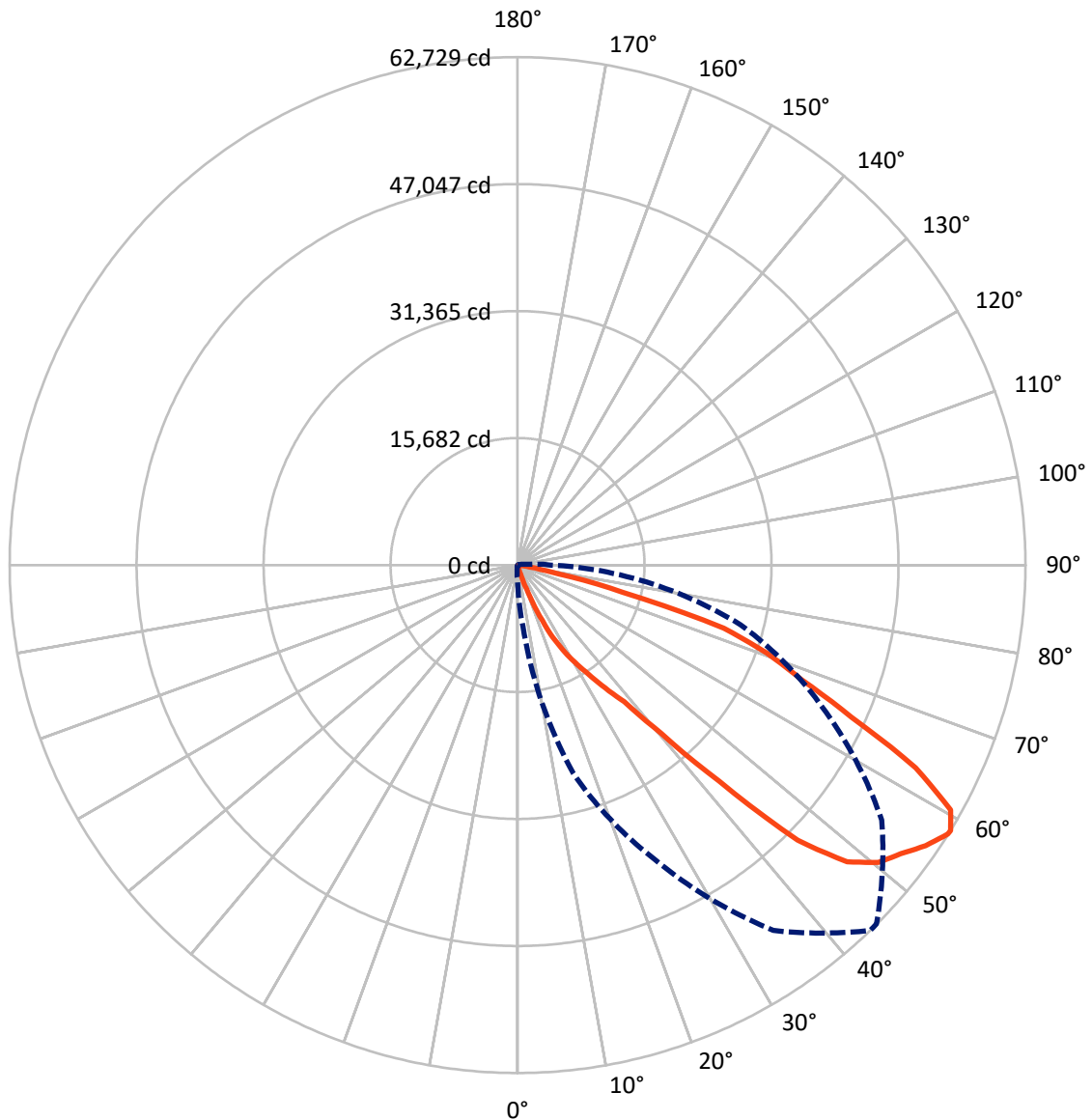
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 42.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	167.0	0.0	167.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	24285.2	0.0	24285.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	24452.2	0.0	24452.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	0.0
10°-20°	53.6	0.2
20°-30°	579.3	2.4
30°-40°	1713.1	7.0
40°-50°	5106.0	20.9
50°-60°	8102.0	33.1
60°-70°	6758.0	27.6
70°-80°	2084.3	8.5
80°-90°	46.3	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°	24452.2	100.0
0°-180°	24452.2	100.0

Coefficient of Utilization



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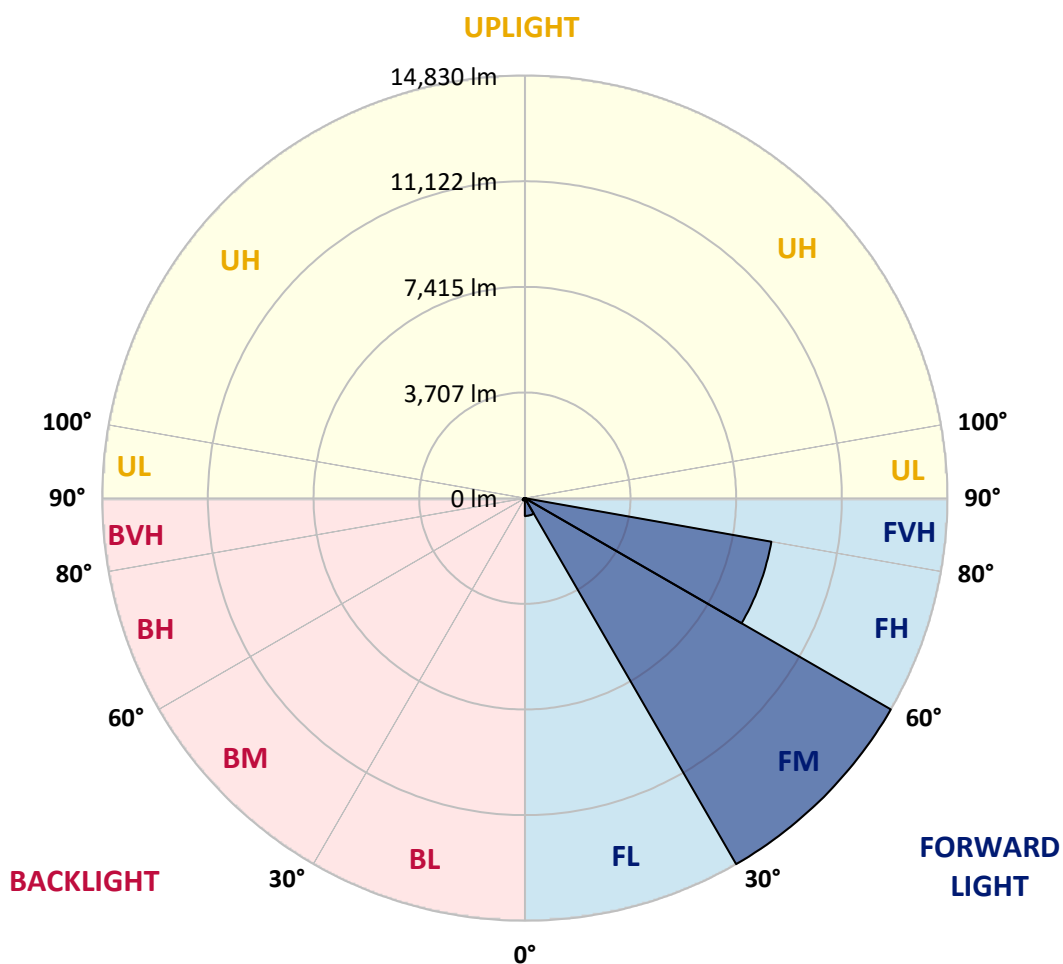
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	626.1	2.6			
FM	(30°-60°)	14829.7	60.6			
FH	(60°-80°)	8785.3	35.9			G4/12000
FVH	(80°-90°)	44.1	0.2			G1/100
BL	(0°-30°)	16.3	0.1	B0/110		
BM	(30°-60°)	91.4	0.4	B0/220		
BH	(60°-80°)	57.0	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°	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1
2.5°	138.5	138.5	133.0	125.6	118.2	110.8	109.0	105.3	103.4	101.6
5°	144.1	144.1	142.2	136.7	129.3	123.8	123.8	118.2	114.5	110.8
7.5°	147.8	149.6	153.3	151.5	147.8	142.2	142.2	138.5	133.0	123.8
10°	153.3	158.9	166.2	169.9	171.8	171.8	169.9	168.1	158.9	145.9
12.5°	158.9	169.9	188.4	206.9	218.0	232.7	230.9	227.2	203.2	175.5
15°	169.9	186.6	225.4	278.9	362.0	413.8	434.1	415.6	336.2	236.4
17.5°	182.9	210.6	326.9	583.7	956.8	1134.2	1241.3	1154.5	764.7	448.9
20°	195.8	256.8	607.7	1512.8	2482.6	3062.6	3223.3	2972.1	1908.1	855.2
22.5°	218.0	360.2	1232.1	3127.2	5349.4	6219.4	6383.8	5580.3	3603.8	1688.3
25°	264.1	522.7	2124.2	5096.3	7983.4	9451.9	9383.5	8330.7	5846.2	2696.8
27.5°	330.6	761.0	3212.2	7240.8	10506.6	11801.5	11956.6	10654.4	7793.1	3965.8
30°	426.7	1054.7	4379.6	8958.7	12529.3	13929.4	13955.3	12608.7	9535.0	5079.7
32.5°	519.1	1331.8	5401.1	10619.3	14522.3	16057.3	16171.8	14514.9	10835.4	6239.7
35°	589.2	1512.8	6435.5	12078.5	16532.0	18647.0	18639.6	16672.4	12375.9	7275.9
37.5°	594.8	1693.8	7372.0	13571.0	19077.4	21445.5	21680.1	19511.5	14237.9	8557.9
40°	581.9	1897.0	8557.9	15898.5	23663.9	27297.3	27504.1	24770.4	17972.8	10752.3
42.5°	596.6	2249.8	10482.6	20196.8	31279.7	36497.9	36896.9	34022.8	24838.7	15229.8
45°	674.2	2913.0	14514.9	27387.8	42135.5	48497.1	48364.1	44224.6	32827.6	22045.8
47.5°	931.0	4536.6	20492.3	34386.6	49073.4	54738.6	54853.1	49793.8	37489.9	27286.2
50°	1431.5	6941.6	25514.8	38086.5	52056.5	57740.2	57633.1	51786.8	39261.3	29866.7
52.5°	1861.9	8681.6	28034.3	39385.0	52438.9	59223.5	59216.1	52311.4	39536.5	30088.3
55°	1969.1	8812.8	28054.6	39455.2	53296.0	61164.8	61408.7	53602.6	39893.0	29120.4
57.5°	1926.6	7802.4	26883.5	39861.6	54821.7	62666.6	62679.5	54853.1	40798.1	28527.5
58°	1889.6	7643.5	26647.1	40092.5	55084.0	62729.4	62698.0	54910.4	41535.1	28505.3
60°	1682.8	6636.8	25725.3	40681.7	54694.3	61440.1	61146.4	53659.9	41426.1	28278.1
62.5°	1322.6	5177.6	24818.4	40000.1	50516.0	55198.5	55320.4	47507.0	37765.1	26953.7
65°	1052.9	3858.7	22926.9	35086.7	41597.9	45329.2	45783.6	38631.4	31521.7	22823.4
67.5°	838.6	2789.2	19232.6	27934.5	32916.3	37831.6	38162.2	32434.2	24421.2	17487.0
70°	681.6	1885.9	13275.5	20429.5	27149.5	32676.2	32696.5	26944.5	18227.7	11457.9
72.5°	604.0	1305.9	7706.3	14899.2	22014.4	26626.7	26089.2	21864.8	14008.8	6786.4
75°	522.7	866.3	3779.3	9108.3	13347.5	13438.1	13643.1	10142.7	7002.6	3227.0
77.5°	430.4	615.1	1488.8	2488.1	4002.8	5124.0	5314.3	4026.8	2329.3	794.3
80°	295.5	291.9	400.8	762.9	1145.2	1435.2	1339.2	1036.3	609.6	304.8
82.5°	127.5	138.5	181.0	218.0	177.3	171.8	164.4	105.3	81.3	62.8
85°	40.6	36.9	38.8	38.8	31.4	24.0	24.0	11.1	0.0	0.0
87.5°	20.3	16.6	16.6	14.8	9.2	3.7	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°
107.1	0°	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1
99.7	2.5°	97.9	97.9	94.2	90.5	88.7	85.0	83.1	81.3	79.4	77.6
107.1	5°	103.4	101.6	96.1	90.5	85.0	79.4	75.7	72.0	68.3	66.5
118.2	7.5°	112.7	109.0	97.9	88.7	81.3	73.9	70.2	64.7	61.0	55.4
131.1	10°	123.8	116.4	101.6	90.5	79.4	70.2	64.7	59.1	53.6	46.2
149.6	12.5°	138.5	125.6	107.1	88.7	75.7	64.7	59.1	51.7	46.2	40.6
173.6	15°	151.5	134.8	109.0	88.7	72.0	59.1	51.7	44.3	38.8	31.4
218.0	17.5°	169.9	142.2	107.1	83.1	66.5	51.7	44.3	38.8	29.6	18.5
323.3	20°	201.3	147.8	103.4	77.6	57.3	42.5	33.2	25.9	12.9	3.7
485.8	22.5°	251.2	162.5	99.7	70.2	49.9	33.2	22.2	9.2	0.0	0.0
738.9	25°	347.3	188.4	99.7	66.5	44.3	24.0	7.4	0.0	0.0	0.0
1049.2	27.5°	461.8	223.5	99.7	57.3	35.1	12.9	0.0	0.0	0.0	0.0
1429.7	30°	578.2	262.3	99.7	49.9	27.7	1.8	0.0	0.0	0.0	0.0
1760.3	32.5°	689.0	295.5	101.6	42.5	18.5	0.0	0.0	0.0	0.0	0.0
2218.4	35°	801.7	301.1	99.7	36.9	11.1	0.0	0.0	0.0	0.0	0.0
2780.0	37.5°	945.7	290.0	94.2	33.2	5.5	0.0	0.0	0.0	0.0	0.0
3657.4	40°	1163.7	295.5	88.7	31.4	1.8	0.0	0.0	0.0	0.0	0.0
5221.9	42.5°	1566.4	319.6	81.3	31.4	0.0	0.0	0.0	0.0	0.0	0.0
8317.7	45°	2707.9	428.5	73.9	33.2	0.0	0.0	0.0	0.0	0.0	0.0
12486.8	47.5°	4479.4	770.3	72.0	33.2	0.0	0.0	0.0	0.0	0.0	0.0
15041.4	50°	5716.9	969.8	75.7	35.1	0.0	0.0	0.0	0.0	0.0	0.0
15360.9	52.5°	5707.7	1080.6	79.4	36.9	7.4	0.0	0.0	0.0	0.0	0.0
14158.4	55°	5074.1	1100.9	85.0	40.6	24.0	0.0	0.0	0.0	0.0	0.0
12167.2	57.5°	4241.1	1004.9	97.9	49.9	44.3	0.0	0.0	0.0	0.0	0.0
11855.0	58°	4093.3	960.5	101.6	51.7	48.0	0.0	0.0	0.0	0.0	0.0
10283.1	60°	3354.4	783.2	129.3	64.7	64.7	0.0	0.0	0.0	0.0	0.0
8430.4	62.5°	2316.3	683.4	147.8	83.1	66.5	0.0	0.0	0.0	0.0	0.0
6215.7	65°	1638.4	616.9	160.7	88.7	53.6	0.0	0.0	0.0	0.0	0.0
4416.5	67.5°	1224.7	568.9	177.3	90.5	27.7	0.0	0.0	0.0	0.0	0.0
2770.7	70°	938.4	533.8	218.0	96.1	7.4	0.0	0.0	0.0	0.0	0.0
1651.4	72.5°	764.7	493.2	264.1	99.7	0.0	0.0	0.0	0.0	0.0	0.0
990.1	75°	633.6	445.2	254.9	109.0	0.0	0.0	0.0	0.0	0.0	0.0
528.3	77.5°	421.2	345.4	232.7	109.0	0.0	0.0	0.0	0.0	0.0	0.0
188.4	80°	147.8	136.7	181.0	96.1	0.0	0.0	0.0	0.0	0.0	0.0
38.8	82.5°	22.2	18.5	25.9	33.2	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°
107.1	0°	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1
75.7	2.5°	75.7	75.7	73.9	75.7	75.7	79.4	88.7	101.6	116.4	121.9
64.7	5°	62.8	61.0	59.1	59.1	59.1	64.7	72.0	86.8	103.4	110.8
53.6	7.5°	51.7	49.9	48.0	46.2	46.2	49.9	59.1	75.7	92.4	99.7
44.3	10°	42.5	38.8	36.9	35.1	35.1	38.8	48.0	64.7	83.1	90.5
36.9	12.5°	35.1	29.6	25.9	24.0	22.2	27.7	36.9	51.7	72.0	81.3
27.7	15°	24.0	18.5	12.9	11.1	9.2	14.8	24.0	40.6	61.0	72.0
14.8	17.5°	12.9	5.5	1.8	0.0	0.0	3.7	11.1	29.6	49.9	59.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	36.9	46.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	22.2	31.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	16.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
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	5.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	14.8
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°
107.1	0°	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1
127.5	2.5°	131.1	129.3	125.6	121.9	121.9	121.9	127.5	133.0	138.5	138.5
114.5	5°	121.9	121.9	120.1	116.4	116.4	118.2	125.6	134.8	142.2	144.1
105.3	7.5°	112.7	116.4	112.7	110.8	112.7	114.5	121.9	133.0	144.1	147.8
97.9	10°	107.1	109.0	109.0	107.1	107.1	110.8	118.2	133.0	147.8	153.3
88.7	12.5°	99.7	103.4	101.6	101.6	101.6	105.3	114.5	131.1	151.5	158.9
79.4	15°	92.4	97.9	97.9	96.1	96.1	97.9	110.8	129.3	157.0	169.9
68.3	17.5°	85.0	90.5	92.4	88.7	88.7	92.4	105.3	129.3	160.7	182.9
55.4	20°	70.2	79.4	85.0	79.4	79.4	83.1	96.1	121.9	162.5	195.8
40.6	22.5°	55.4	64.7	72.0	70.2	70.2	72.0	88.7	116.4	164.4	218.0
24.0	25°	40.6	49.9	55.4	59.1	59.1	64.7	81.3	112.7	171.8	264.1
11.1	27.5°	24.0	35.1	42.5	46.2	48.0	55.4	75.7	109.0	184.7	330.6
0.0	30°	11.1	20.3	29.6	36.9	36.9	49.9	70.2	105.3	201.3	426.7
0.0	32.5°	0.0	9.2	14.8	25.9	27.7	40.6	64.7	101.6	225.4	519.1
0.0	35°	0.0	0.0	7.4	20.3	20.3	33.2	59.1	97.9	262.3	589.2
0.0	37.5°	0.0	0.0	0.0	14.8	16.6	29.6	57.3	96.1	269.7	594.8
0.0	40°	0.0	0.0	0.0	11.1	12.9	27.7	57.3	97.9	243.8	581.9
0.0	42.5°	0.0	0.0	0.0	7.4	9.2	27.7	57.3	101.6	219.8	596.6
0.0	45°	0.0	0.0	0.0	5.5	7.4	29.6	55.4	99.7	206.9	674.2
0.0	47.5°	0.0	0.0	0.0	7.4	11.1	29.6	53.6	97.9	208.7	931.0
0.0	50°	0.0	0.0	0.0	9.2	12.9	29.6	55.4	94.2	229.0	1431.5
0.0	52.5°	0.0	0.0	0.0	7.4	11.1	33.2	61.0	92.4	249.4	1861.9
0.0	55°	0.0	0.0	0.0	1.8	5.5	42.5	66.5	92.4	280.8	1969.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	48.0	75.7	97.9	332.5	1926.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	48.0	77.6	97.9	336.2	1889.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	48.0	85.0	109.0	362.0	1682.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	40.6	101.6	136.7	376.8	1322.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	33.2	120.1	149.6	387.9	1052.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	31.4	123.8	151.5	393.4	838.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	33.2	121.9	162.5	411.9	681.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	36.9	110.8	179.2	411.9	604.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	38.8	103.4	201.3	375.0	522.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	36.9	101.6	234.6	334.3	430.4
0.0	80°	3.7	5.5	5.5	3.7	3.7	31.4	99.7	238.3	284.5	295.5
1.8	82.5°	11.1	14.8	12.9	9.2	9.2	27.7	88.7	199.5	147.8	127.5
11.1	85°	20.3	24.0	24.0	20.3	20.3	25.9	55.4	72.0	49.9	40.6
20.3	87.5°	27.7	31.4	31.4	27.7	27.7	25.9	24.0	22.2	20.3	20.3
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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

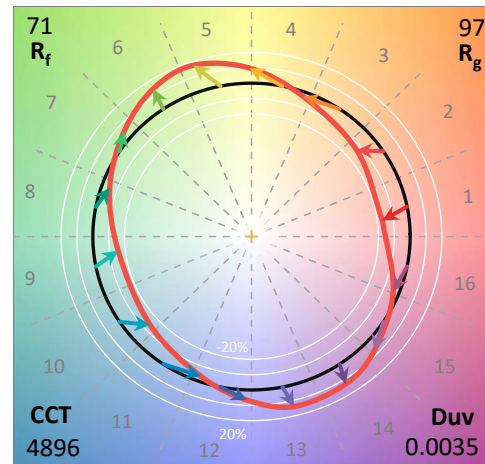
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 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-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896	CRI (Ra):	70.2		
CIE u':	0.2101	R1:	68.1	R9:	-35.1
CIE v':	0.4901	R2:	73.9	R10:	39.3
Duv:	0.0035	R3:	79.4	R11:	71.1
CIE x:	0.3489	R4:	72.1	R12:	43.8
CIE y:	0.3618	R5:	69.2	R13:	68.1
CIE z:	0.2893	R6:	65.7	R14:	88.4
Peak Wavelength (nm):	443	R7:	78.1	R15:	59.7
Dominant Wavelength (nm):	570	R8:	55.3		
Purity:	13.25435				
Rf:	70.7				
Rg:	96.8				



Test Conditions

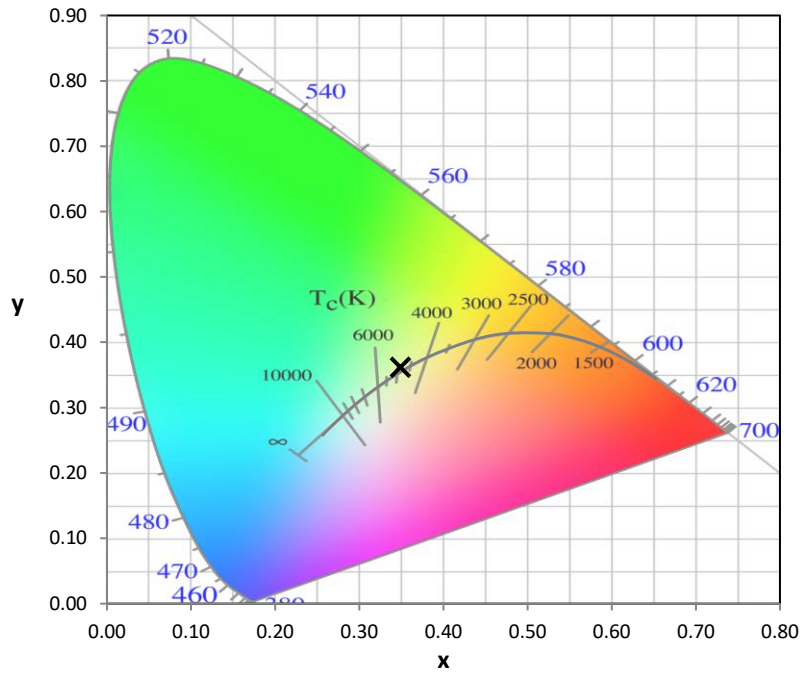
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

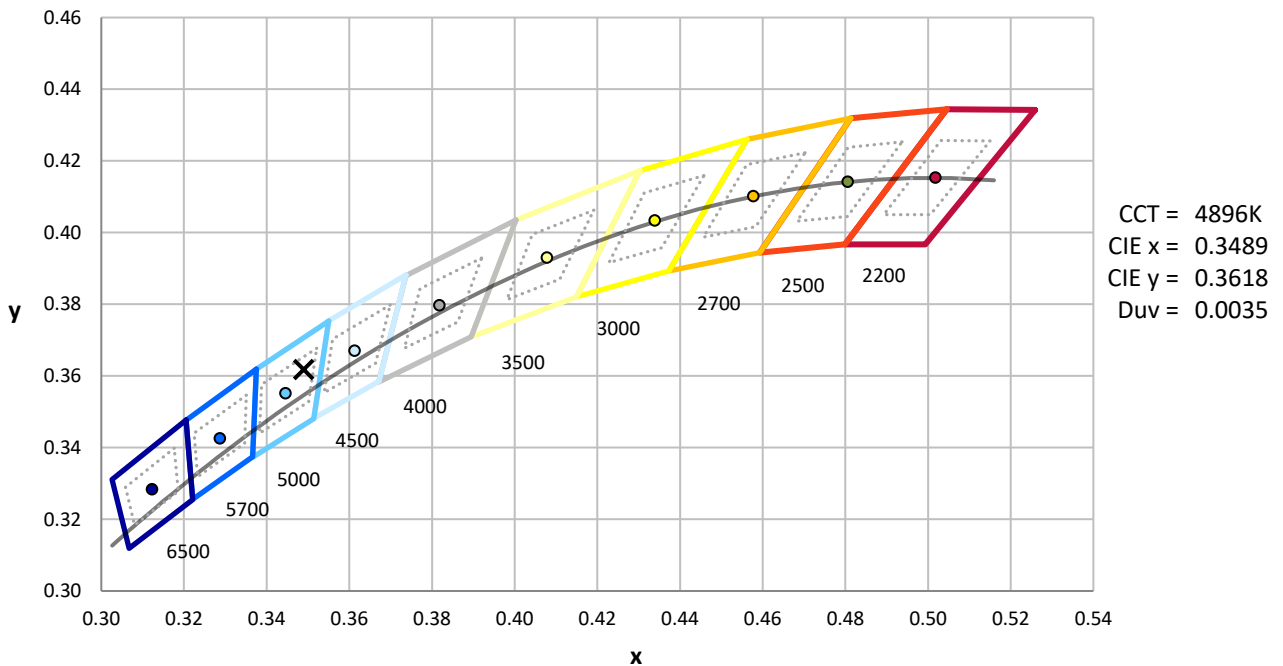
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



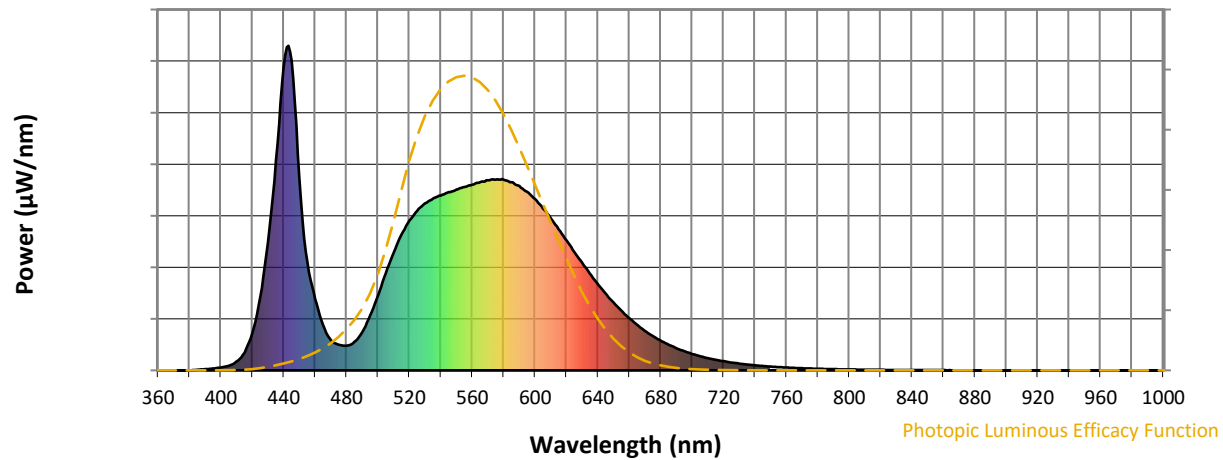
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

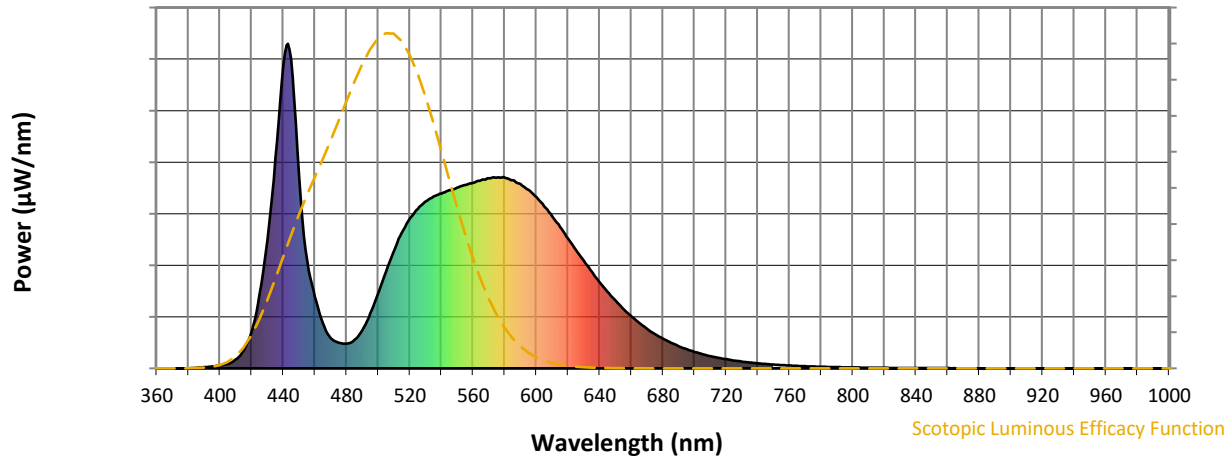


Photopic Lumens: NR

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength



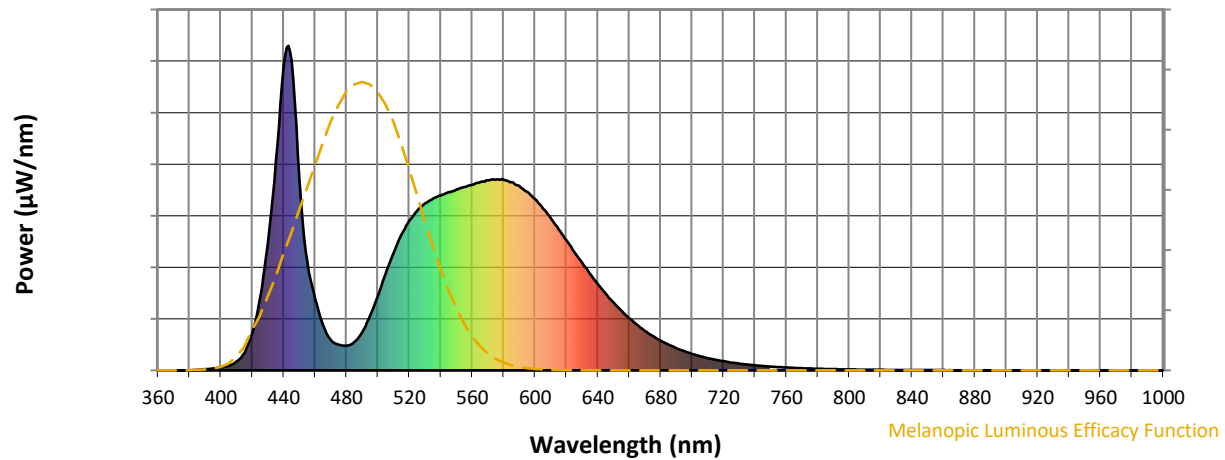
Scotopic Lumens: NR

S/P: 1.7

λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

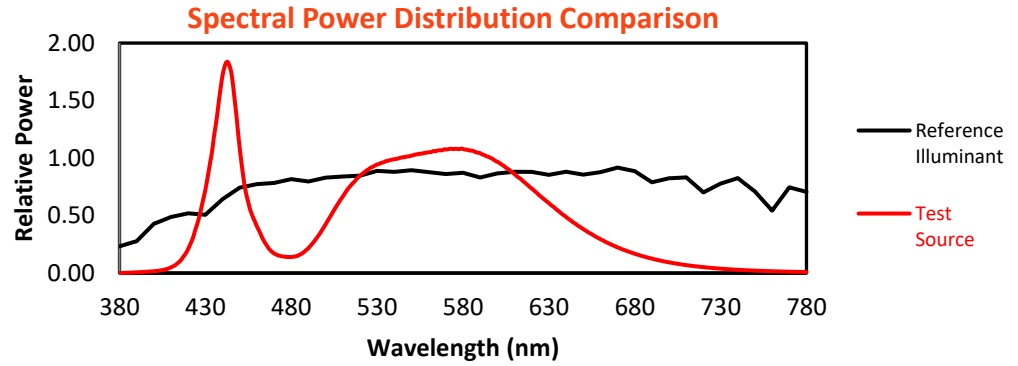
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

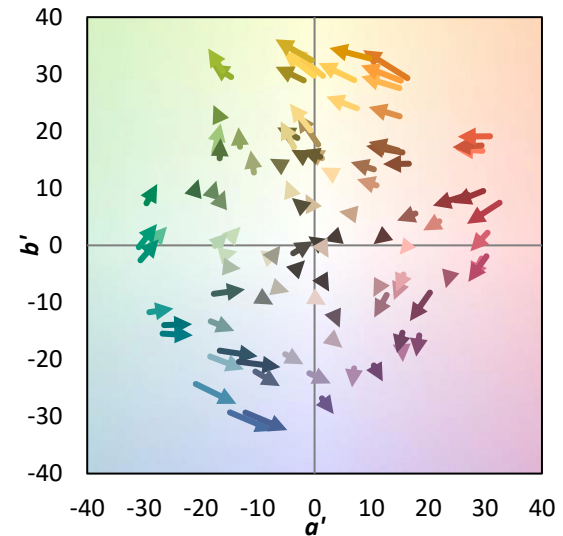
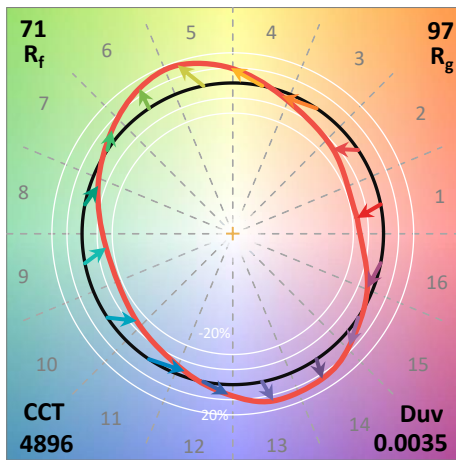
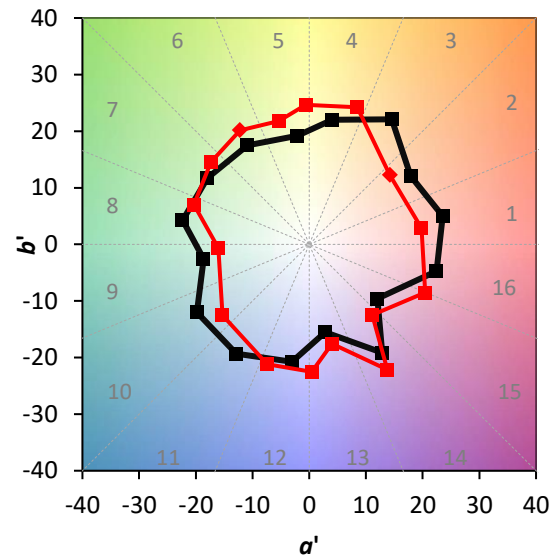
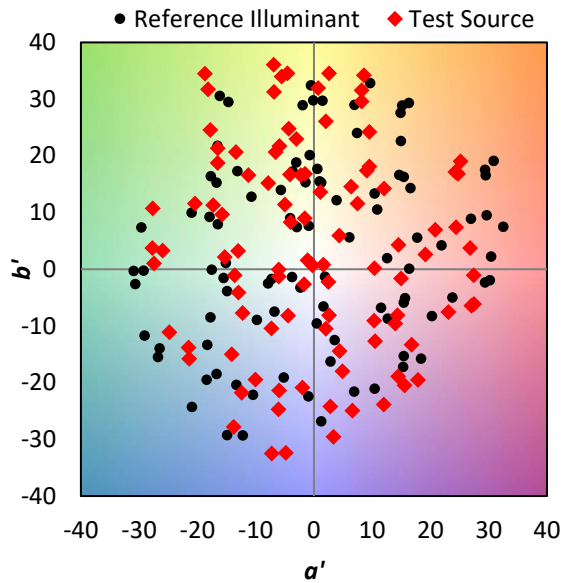
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 $CIE R_a = 70.2$
 $R_g = -35.1$

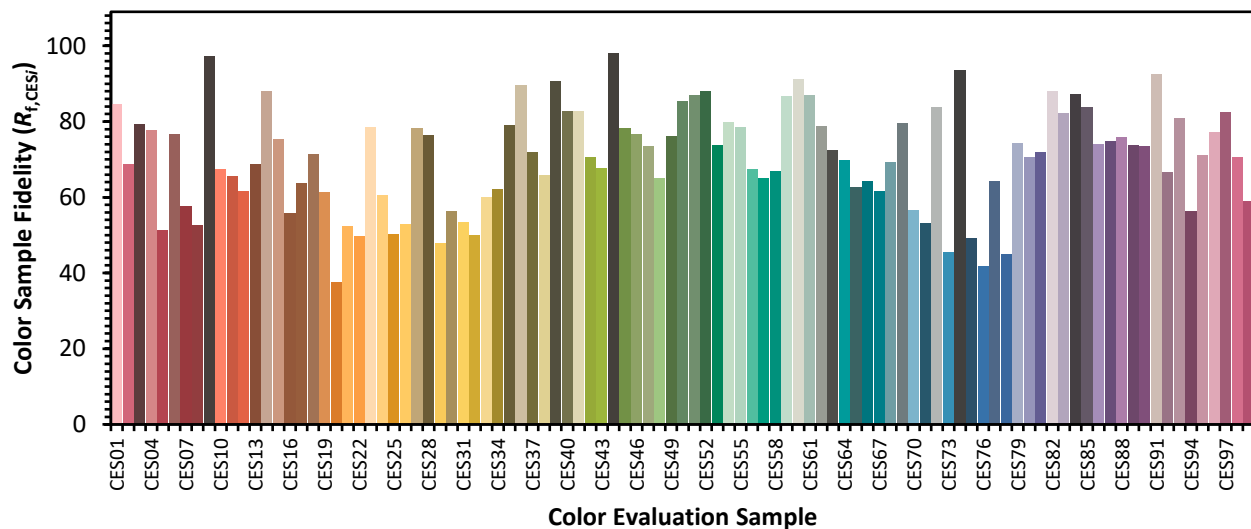


Color Vector Graphics

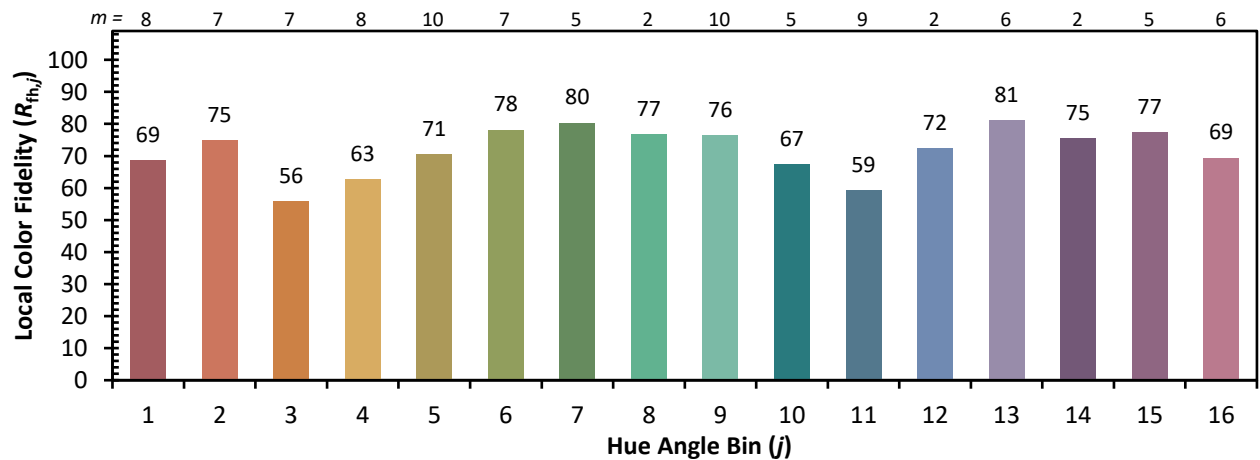
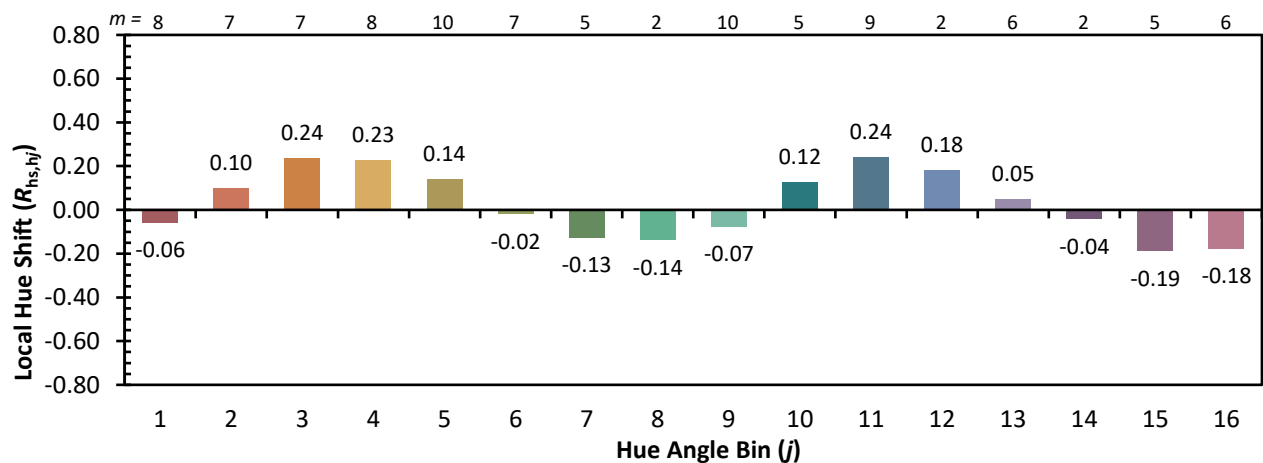
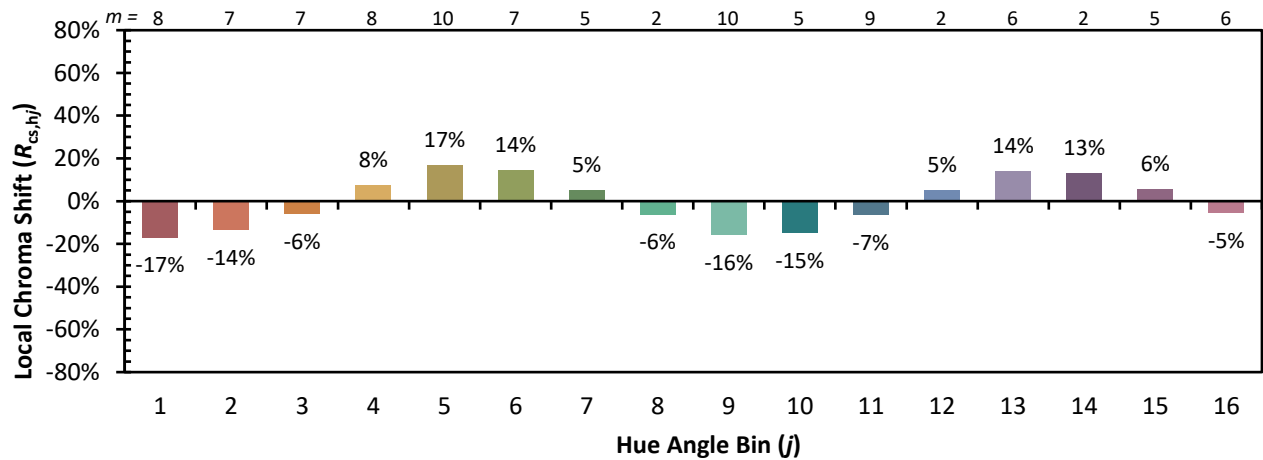


Individual Sample Fidelity Index ($R_{f,i}$)

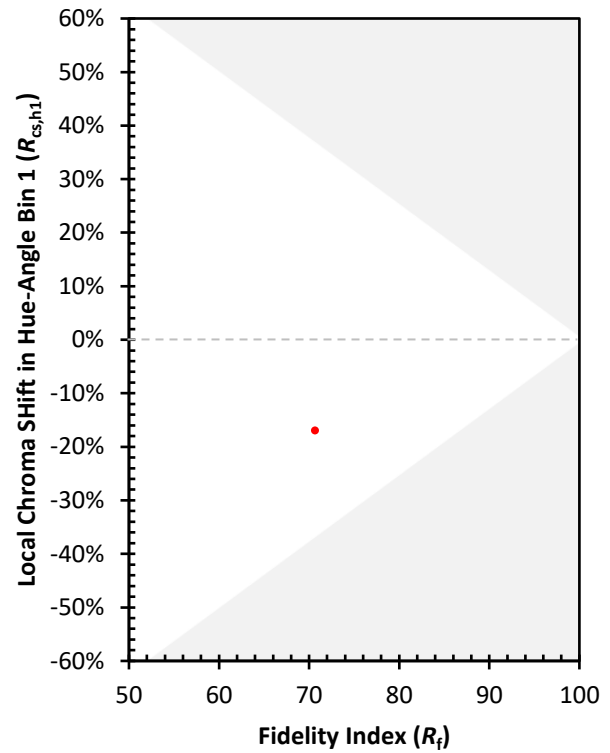
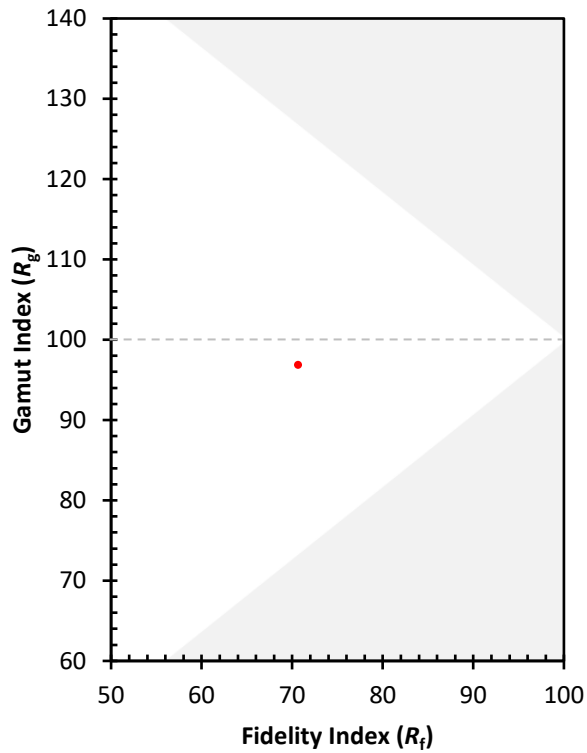
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)