

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: P1049614

Luminaire Tested: **GALN-SA3B-735-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049614
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12617.5 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

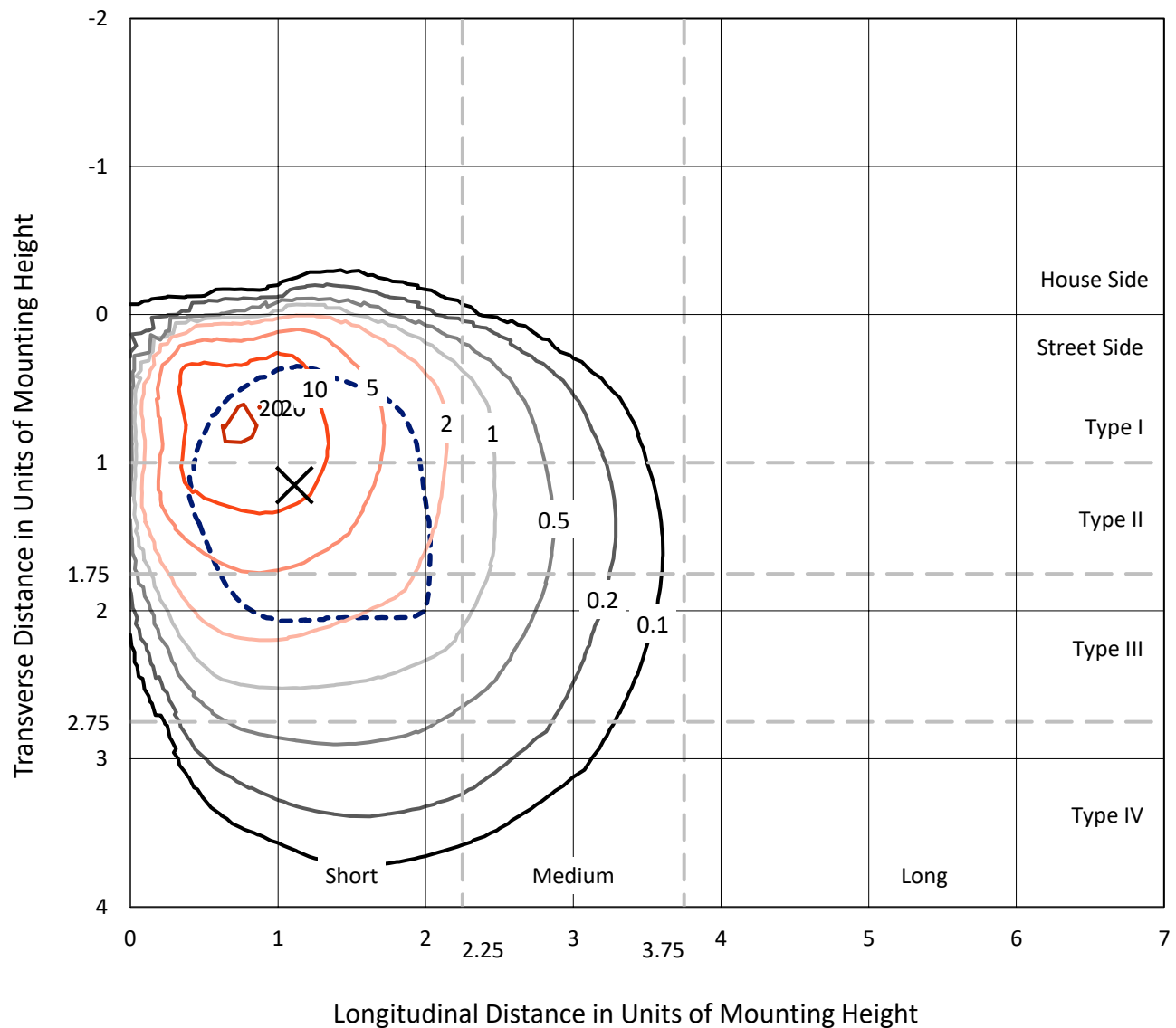
Input Watts (W): 106.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

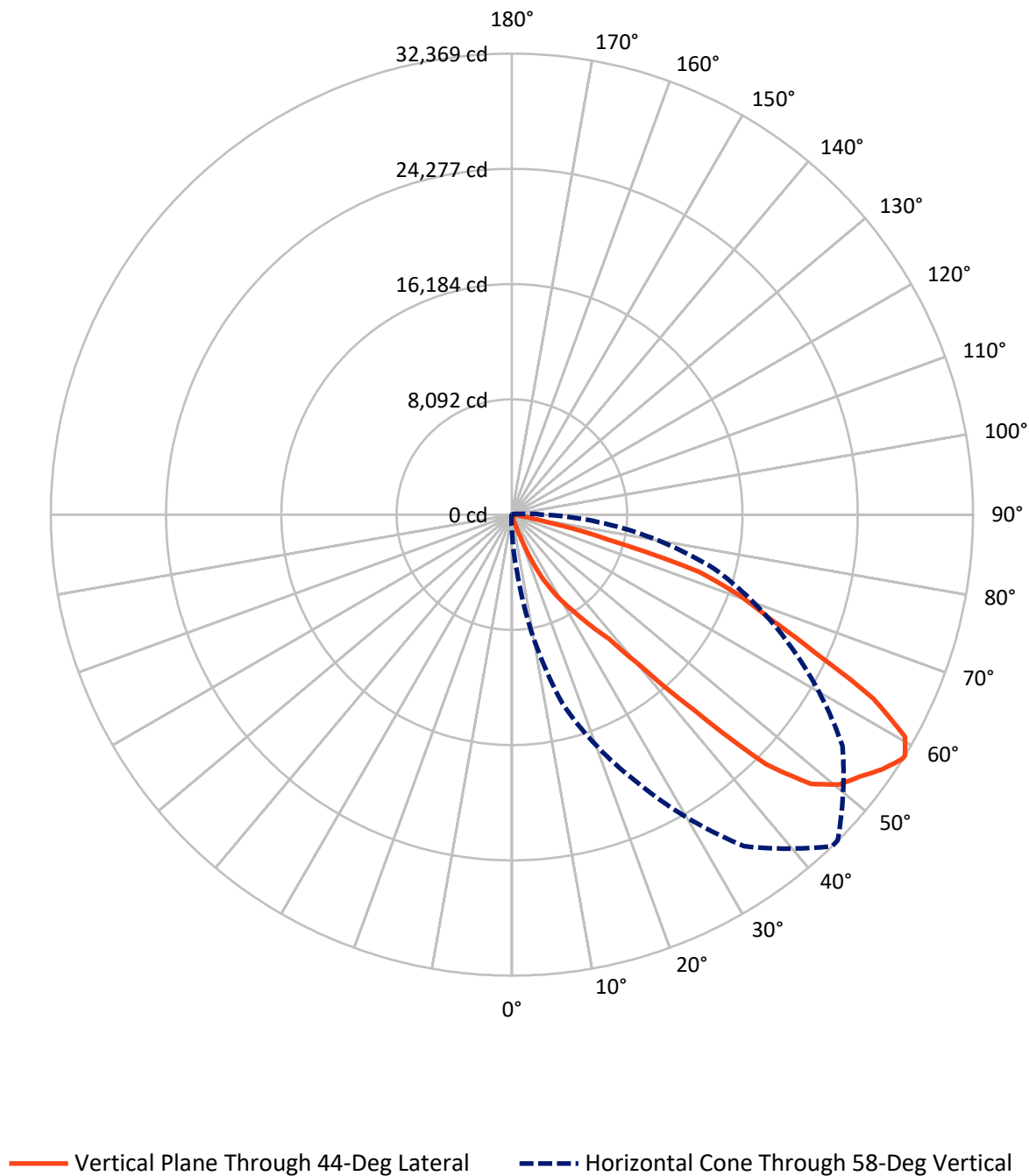


Based on 20 foot mounting height. Maximum calculated value = 22 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	86.2	0.0	86.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	12531.4	0.0	12531.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	12617.5	0.0	12617.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.0
10°-20°	27.7	0.2
20°-30°	298.9	2.4
30°-40°	884.0	7.0
40°-50°	2634.7	20.9
50°-60°	4180.7	33.1
60°-70°	3487.2	27.6
70°-80°	1075.5	8.5
80°-90°	23.9	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°	12617.5	100.0
0°-180°	12617.5	100.0



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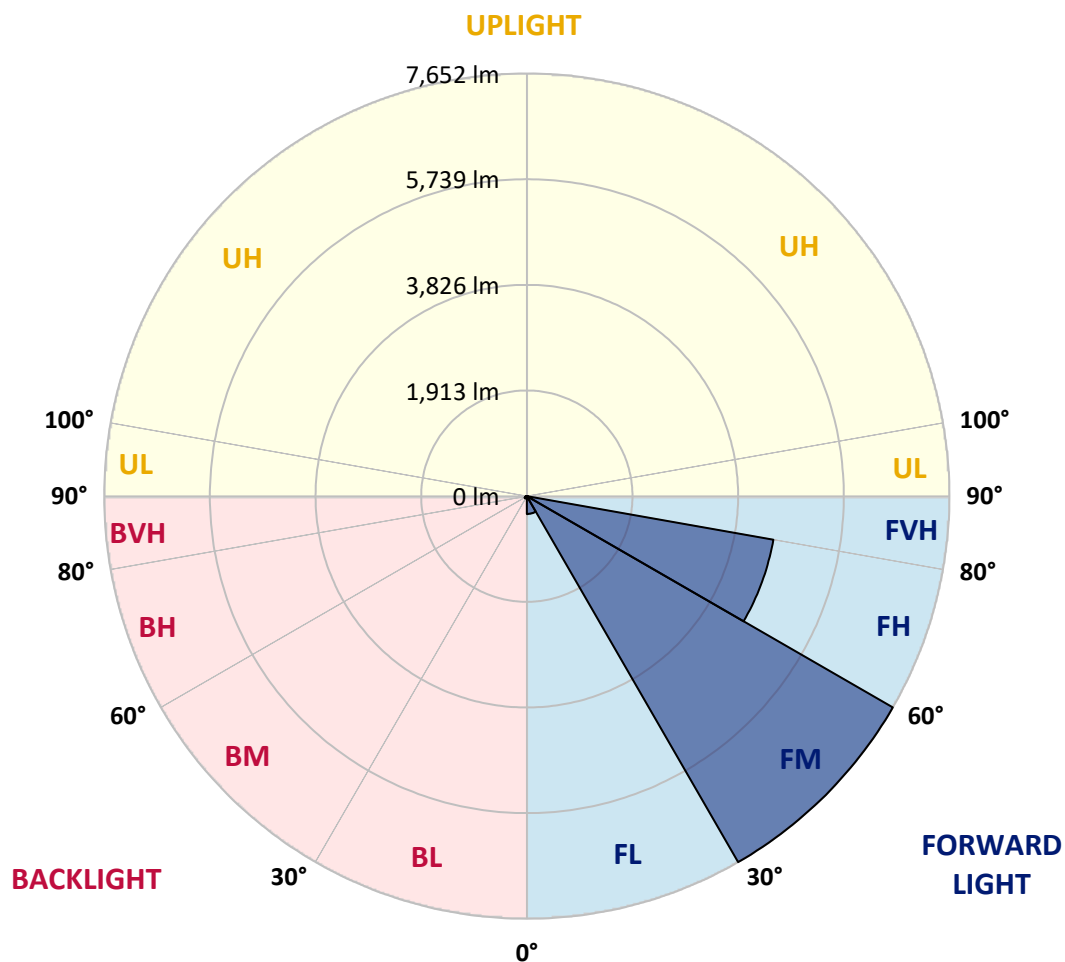
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	323.1	2.6			
FM	(30°-60°)	7652.3	60.6			
FH	(60°-80°)	4533.3	35.9			G2/5000
FVH	(80°-90°)	22.7	0.2			G1/100
BL	(0°-30°)	8.4	0.1	B0/110		
BM	(30°-60°)	47.2	0.4	B0/220		
BH	(60°-80°)	29.4	0.2	B0/110		G0/110
BVH	(80°-90°)	1.2	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
2.5°	71.5	71.5	68.6	64.8	61.0	57.2	56.2	54.3	53.4	52.4
5°	74.3	74.3	73.4	70.5	66.7	63.9	63.9	61.0	59.1	57.2
7.5°	76.3	77.2	79.1	78.2	76.3	73.4	73.4	71.5	68.6	63.9
10°	79.1	82.0	85.8	87.7	88.6	88.6	87.7	86.7	82.0	75.3
12.5°	82.0	87.7	97.2	106.8	112.5	120.1	119.1	117.2	104.8	90.5
15°	87.7	96.3	116.3	143.9	186.8	213.5	224.0	214.5	173.5	122.0
17.5°	94.4	108.7	168.7	301.2	493.7	585.2	640.5	595.7	394.6	231.6
20°	101.0	132.5	313.6	780.6	1281.0	1580.3	1663.2	1533.6	984.6	441.3
22.5°	112.5	185.9	635.7	1613.7	2760.3	3209.2	3294.1	2879.5	1859.6	871.2
25°	136.3	269.7	1096.1	2629.7	4119.5	4877.3	4842.0	4298.7	3016.7	1391.6
27.5°	170.6	392.7	1657.5	3736.3	5421.5	6089.7	6169.7	5497.8	4021.3	2046.4
30°	220.2	544.2	2259.9	4622.8	6465.2	7187.7	7201.0	6506.2	4920.1	2621.2
32.5°	267.8	687.2	2787.0	5479.6	7493.6	8285.7	8344.8	7489.8	5591.2	3219.7
35°	304.1	780.6	3320.8	6232.6	8530.7	9622.0	9618.2	8603.1	6386.1	3754.4
37.5°	306.9	874.0	3804.0	7002.8	9844.1	11066.0	11187.1	10068.1	7346.9	4415.9
40°	300.2	978.9	4415.9	8203.7	12210.8	14085.6	14192.4	12781.7	9274.1	5548.3
42.5°	307.9	1160.9	5409.1	10421.7	16140.6	18833.2	19039.1	17556.0	12817.0	7858.7
45°	347.9	1503.1	7489.8	14132.3	21742.2	25024.9	24956.3	22820.3	16939.3	11375.8
47.5°	480.4	2340.9	10574.2	17743.8	25322.3	28245.6	28304.7	25694.0	19345.1	14079.9
50°	738.7	3581.9	13165.8	19652.9	26861.6	29794.4	29739.1	26722.4	20259.1	15411.4
52.5°	960.8	4479.8	14465.9	20323.0	27058.9	30559.8	30556.0	26993.1	20401.2	15525.8
55°	1016.1	4547.5	14476.4	20359.2	27501.2	31561.6	31687.4	27659.4	20585.1	15026.4
57.5°	994.1	4026.1	13872.1	20568.9	28288.5	32336.5	32343.1	28304.7	21052.2	14720.4
58°	975.1	3944.1	13750.1	20688.1	28423.8	32368.9	32352.7	28334.2	21432.5	14709.0
60°	868.3	3424.7	13274.5	20992.1	28222.7	31703.6	31552.0	27688.9	21376.2	14591.7
62.5°	682.5	2671.7	12806.5	20640.4	26066.7	28482.9	28545.8	24514.0	19487.1	13908.3
65°	543.3	1991.1	11830.5	18105.0	21464.9	23390.2	23624.7	19934.1	16265.5	11777.1
67.5°	432.7	1439.3	9924.2	14414.4	16985.1	19521.4	19692.0	16736.3	12601.6	9023.4
70°	351.7	973.2	6850.3	10541.8	14009.4	16861.2	16871.7	13903.6	9405.7	5912.4
72.5°	311.7	673.9	3976.5	7688.1	11359.6	13739.6	13462.3	11282.4	7228.7	3501.9
75°	269.7	447.0	1950.1	4700.0	6887.4	6934.1	7039.9	5233.7	3613.4	1665.1
77.5°	222.1	317.4	768.2	1283.9	2065.5	2644.0	2742.2	2077.9	1201.9	409.9
80°	152.5	150.6	206.8	393.6	591.0	740.6	691.0	534.7	314.5	157.3
82.5°	65.8	71.5	93.4	112.5	91.5	88.6	84.8	54.3	41.9	32.4
85°	21.0	19.1	20.0	20.0	16.2	12.4	12.4	5.7	0.0	0.0
87.5°	10.5	8.6	8.6	7.6	4.8	1.9	1.0	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
55.3	0°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
51.5	2.5°	50.5	50.5	48.6	46.7	45.8	43.8	42.9	41.9	41.0	40.0
55.3	5°	53.4	52.4	49.6	46.7	43.8	41.0	39.1	37.2	35.3	34.3
61.0	7.5°	58.1	56.2	50.5	45.8	41.9	38.1	36.2	33.4	31.5	28.6
67.7	10°	63.9	60.0	52.4	46.7	41.0	36.2	33.4	30.5	27.6	23.8
77.2	12.5°	71.5	64.8	55.3	45.8	39.1	33.4	30.5	26.7	23.8	21.0
89.6	15°	78.2	69.6	56.2	45.8	37.2	30.5	26.7	22.9	20.0	16.2
112.5	17.5°	87.7	73.4	55.3	42.9	34.3	26.7	22.9	20.0	15.3	9.5
166.8	20°	103.9	76.3	53.4	40.0	29.5	21.9	17.2	13.3	6.7	1.9
250.7	22.5°	129.6	83.9	51.5	36.2	25.7	17.2	11.4	4.8	0.0	0.0
381.3	25°	179.2	97.2	51.5	34.3	22.9	12.4	3.8	0.0	0.0	0.0
541.4	27.5°	238.3	115.3	51.5	29.5	18.1	6.7	0.0	0.0	0.0	0.0
737.7	30°	298.3	135.3	51.5	25.7	14.3	1.0	0.0	0.0	0.0	0.0
908.3	32.5°	355.5	152.5	52.4	21.9	9.5	0.0	0.0	0.0	0.0	0.0
1144.7	35°	413.7	155.4	51.5	19.1	5.7	0.0	0.0	0.0	0.0	0.0
1434.5	37.5°	488.0	149.6	48.6	17.2	2.9	0.0	0.0	0.0	0.0	0.0
1887.2	40°	600.5	152.5	45.8	16.2	1.0	0.0	0.0	0.0	0.0	0.0
2694.5	42.5°	808.3	164.9	41.9	16.2	0.0	0.0	0.0	0.0	0.0	0.0
4292.0	45°	1397.3	221.1	38.1	17.2	0.0	0.0	0.0	0.0	0.0	0.0
6443.3	47.5°	2311.4	397.5	37.2	17.2	0.0	0.0	0.0	0.0	0.0	0.0
7761.5	50°	2950.0	500.4	39.1	18.1	0.0	0.0	0.0	0.0	0.0	0.0
7926.4	52.5°	2945.2	557.6	41.0	19.1	3.8	0.0	0.0	0.0	0.0	0.0
7305.9	55°	2618.3	568.1	43.8	21.0	12.4	0.0	0.0	0.0	0.0	0.0
6278.4	57.5°	2188.4	518.5	50.5	25.7	22.9	0.0	0.0	0.0	0.0	0.0
6117.3	58°	2112.2	495.6	52.4	26.7	24.8	0.0	0.0	0.0	0.0	0.0
5306.2	60°	1730.9	404.1	66.7	33.4	33.4	0.0	0.0	0.0	0.0	0.0
4350.2	62.5°	1195.2	352.7	76.3	42.9	34.3	0.0	0.0	0.0	0.0	0.0
3207.3	65°	845.4	318.4	82.9	45.8	27.6	0.0	0.0	0.0	0.0	0.0
2279.0	67.5°	631.9	293.6	91.5	46.7	14.3	0.0	0.0	0.0	0.0	0.0
1429.7	70°	484.2	275.5	112.5	49.6	3.8	0.0	0.0	0.0	0.0	0.0
852.1	72.5°	394.6	254.5	136.3	51.5	0.0	0.0	0.0	0.0	0.0	0.0
510.9	75°	326.9	229.7	131.5	56.2	0.0	0.0	0.0	0.0	0.0	0.0
272.6	77.5°	217.3	178.2	120.1	56.2	0.0	0.0	0.0	0.0	0.0	0.0
97.2	80°	76.3	70.5	93.4	49.6	0.0	0.0	0.0	0.0	0.0	0.0
20.0	82.5°	11.4	9.5	13.3	17.2	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°
55.3	0°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
39.1	2.5°	39.1	39.1	38.1	39.1	39.1	41.0	45.8	52.4	60.0	62.9
33.4	5°	32.4	31.5	30.5	30.5	30.5	33.4	37.2	44.8	53.4	57.2
27.6	7.5°	26.7	25.7	24.8	23.8	23.8	25.7	30.5	39.1	47.7	51.5
22.9	10°	21.9	20.0	19.1	18.1	18.1	20.0	24.8	33.4	42.9	46.7
19.1	12.5°	18.1	15.3	13.3	12.4	11.4	14.3	19.1	26.7	37.2	41.9
14.3	15°	12.4	9.5	6.7	5.7	4.8	7.6	12.4	21.0	31.5	37.2
7.6	17.5°	6.7	2.9	1.0	0.0	0.0	1.9	5.7	15.3	25.7	30.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	19.1	23.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	11.4	16.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	8.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
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	2.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.6
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°
55.3	0°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
65.8	2.5°	67.7	66.7	64.8	62.9	62.9	62.9	65.8	68.6	71.5	71.5
59.1	5°	62.9	62.9	62.0	60.0	60.0	61.0	64.8	69.6	73.4	74.3
54.3	7.5°	58.1	60.0	58.1	57.2	58.1	59.1	62.9	68.6	74.3	76.3
50.5	10°	55.3	56.2	56.2	55.3	55.3	57.2	61.0	68.6	76.3	79.1
45.8	12.5°	51.5	53.4	52.4	52.4	52.4	54.3	59.1	67.7	78.2	82.0
41.0	15°	47.7	50.5	50.5	49.6	49.6	50.5	57.2	66.7	81.0	87.7
35.3	17.5°	43.8	46.7	47.7	45.8	45.8	47.7	54.3	66.7	82.9	94.4
28.6	20°	36.2	41.0	43.8	41.0	41.0	42.9	49.6	62.9	83.9	101.0
21.0	22.5°	28.6	33.4	37.2	36.2	36.2	37.2	45.8	60.0	84.8	112.5
12.4	25°	21.0	25.7	28.6	30.5	30.5	33.4	41.9	58.1	88.6	136.3
5.7	27.5°	12.4	18.1	21.9	23.8	24.8	28.6	39.1	56.2	95.3	170.6
0.0	30°	5.7	10.5	15.3	19.1	19.1	25.7	36.2	54.3	103.9	220.2
0.0	32.5°	0.0	4.8	7.6	13.3	14.3	21.0	33.4	52.4	116.3	267.8
0.0	35°	0.0	0.0	3.8	10.5	10.5	17.2	30.5	50.5	135.3	304.1
0.0	37.5°	0.0	0.0	0.0	7.6	8.6	15.3	29.5	49.6	139.2	306.9
0.0	40°	0.0	0.0	0.0	5.7	6.7	14.3	29.5	50.5	125.8	300.2
0.0	42.5°	0.0	0.0	0.0	3.8	4.8	14.3	29.5	52.4	113.4	307.9
0.0	45°	0.0	0.0	0.0	2.9	3.8	15.3	28.6	51.5	106.8	347.9
0.0	47.5°	0.0	0.0	0.0	3.8	5.7	15.3	27.6	50.5	107.7	480.4
0.0	50°	0.0	0.0	0.0	4.8	6.7	15.3	28.6	48.6	118.2	738.7
0.0	52.5°	0.0	0.0	0.0	3.8	5.7	17.2	31.5	47.7	128.7	960.8
0.0	55°	0.0	0.0	0.0	1.0	2.9	21.9	34.3	47.7	144.9	1016.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	24.8	39.1	50.5	171.6	994.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	24.8	40.0	50.5	173.5	975.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	24.8	43.8	56.2	186.8	868.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	21.0	52.4	70.5	194.4	682.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	17.2	62.0	77.2	200.2	543.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	16.2	63.9	78.2	203.0	432.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	17.2	62.9	83.9	212.6	351.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	19.1	57.2	92.5	212.6	311.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	20.0	53.4	103.9	193.5	269.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	19.1	52.4	121.0	172.5	222.1
0.0	80°	1.9	2.9	2.9	1.9	1.9	16.2	51.5	123.0	146.8	152.5
1.0	82.5°	5.7	7.6	6.7	4.8	4.8	14.3	45.8	102.9	76.3	65.8
5.7	85°	10.5	12.4	12.4	10.5	10.5	13.3	28.6	37.2	25.7	21.0
10.5	87.5°	14.3	16.2	16.2	14.3	14.3	13.3	12.4	11.4	10.5	10.5
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

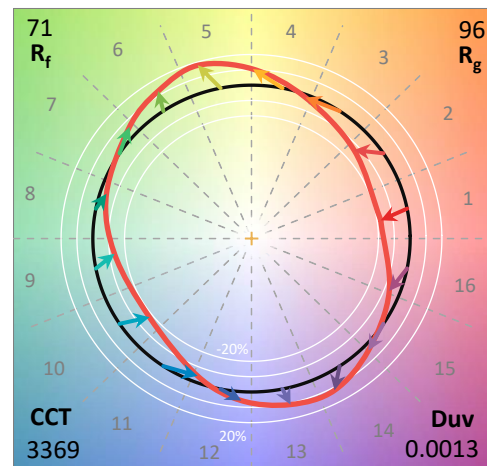
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

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

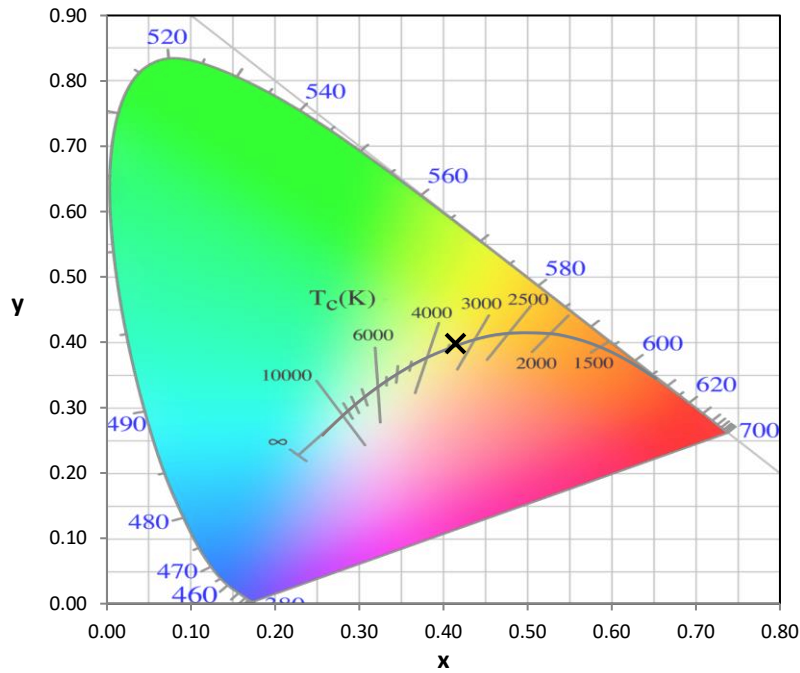
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

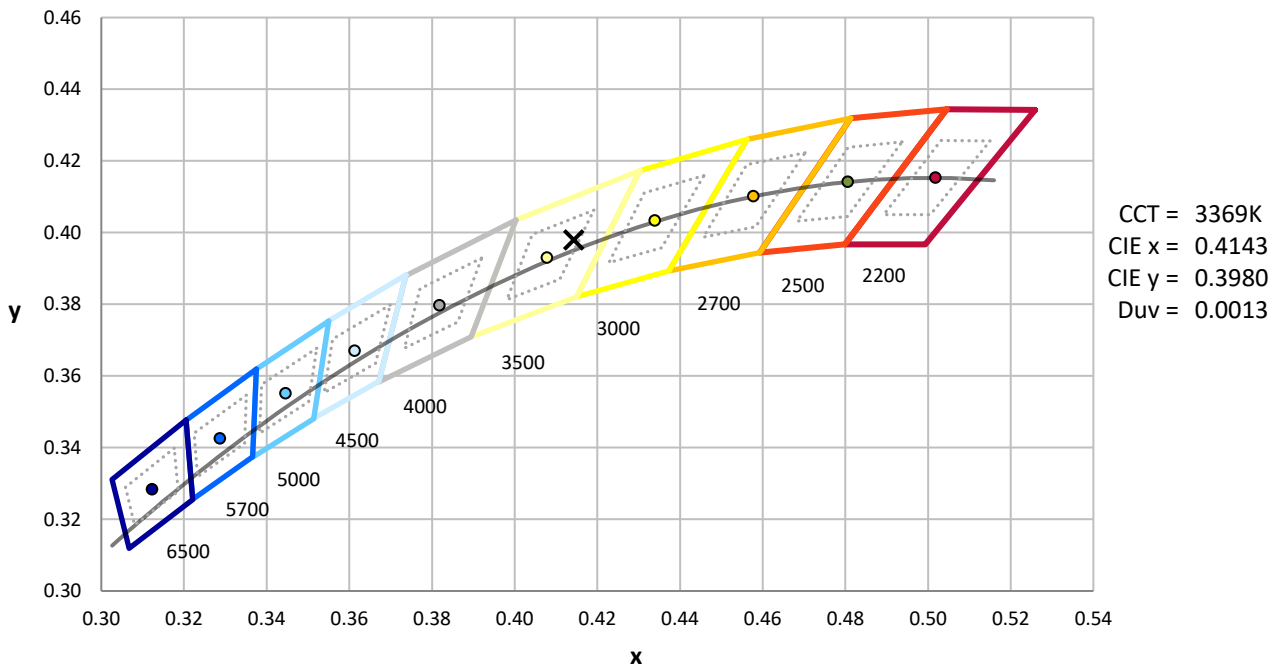
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



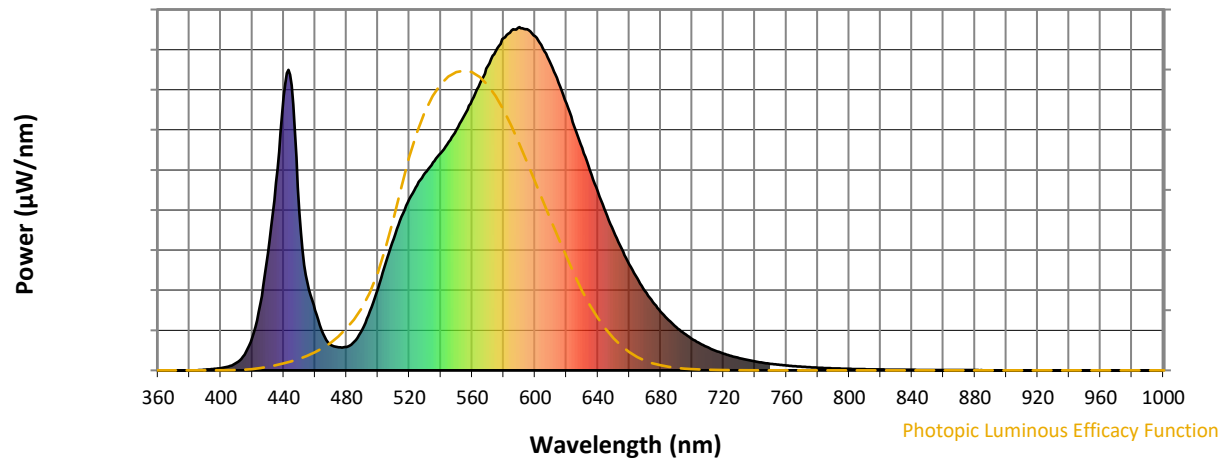
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

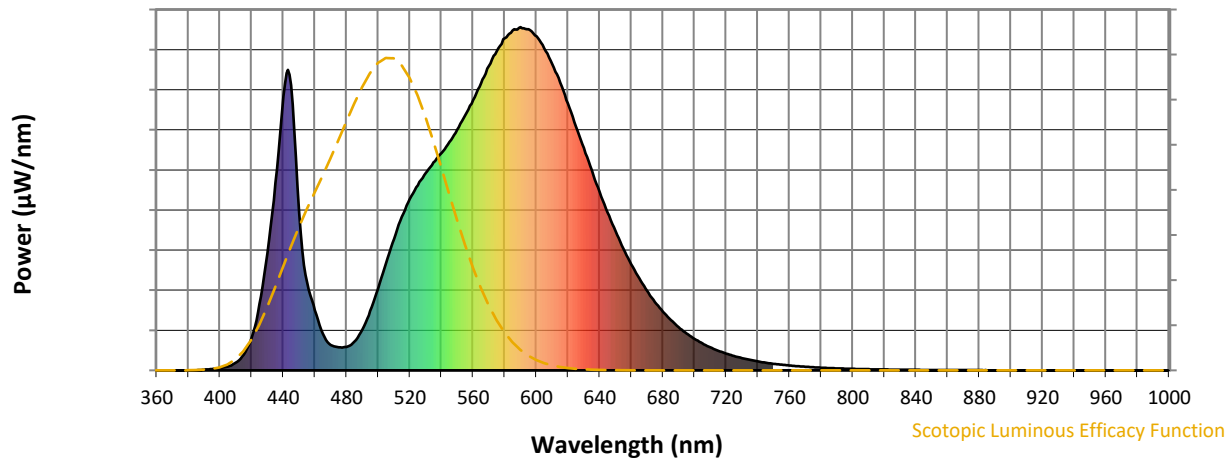


Photopic Lumens: NR

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

Scotopic Flux vs. Wavelength

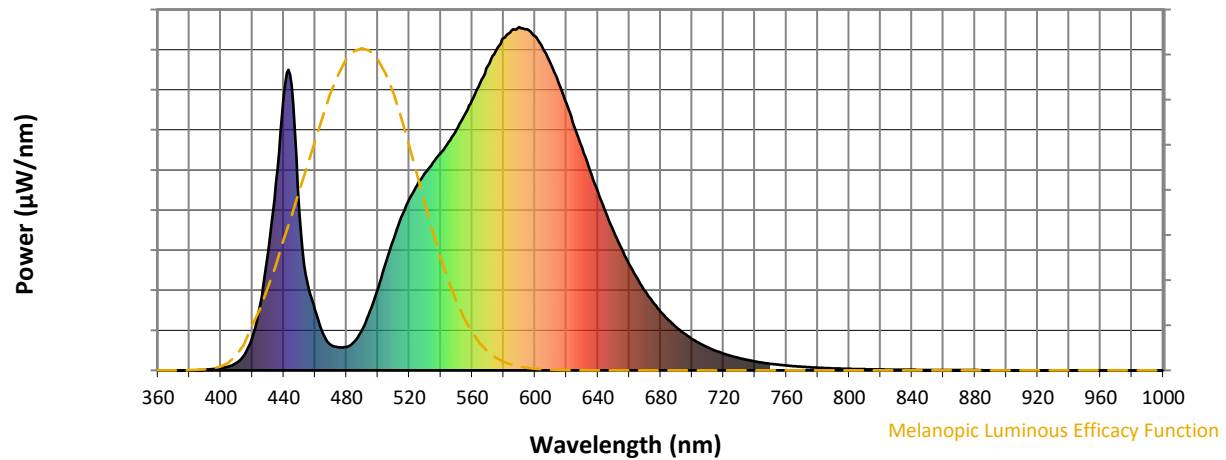


Scotopic Lumens: NR

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

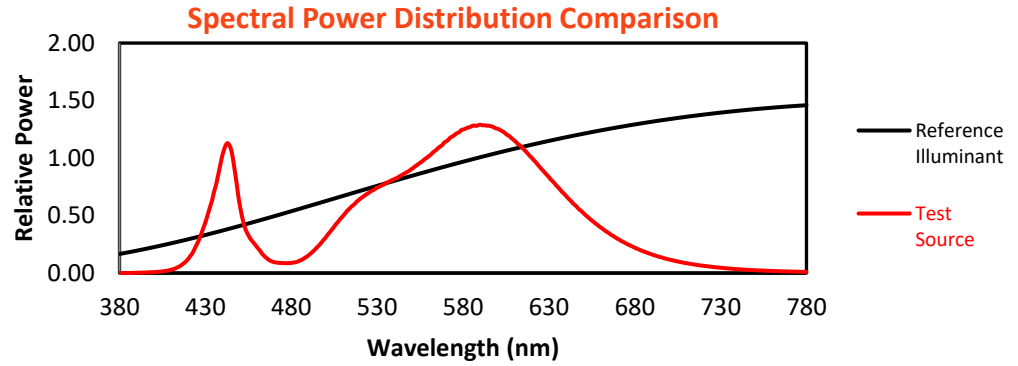
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119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

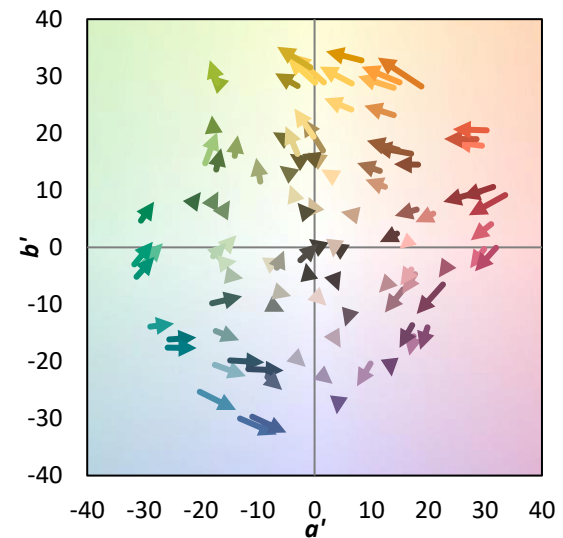
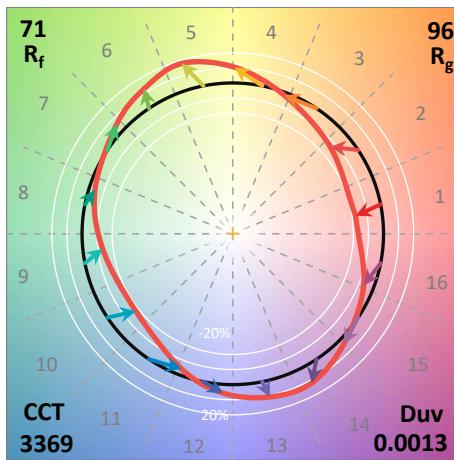
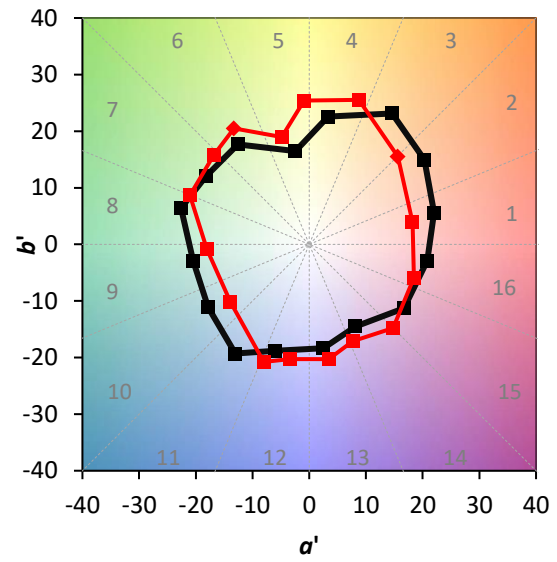
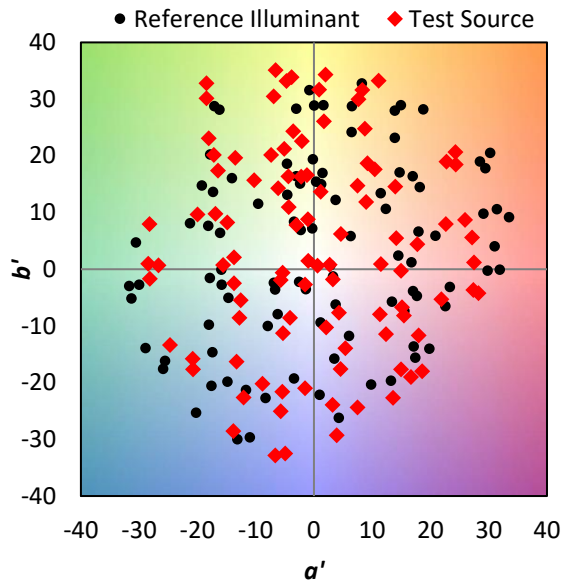
TM-30-18

Summary

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

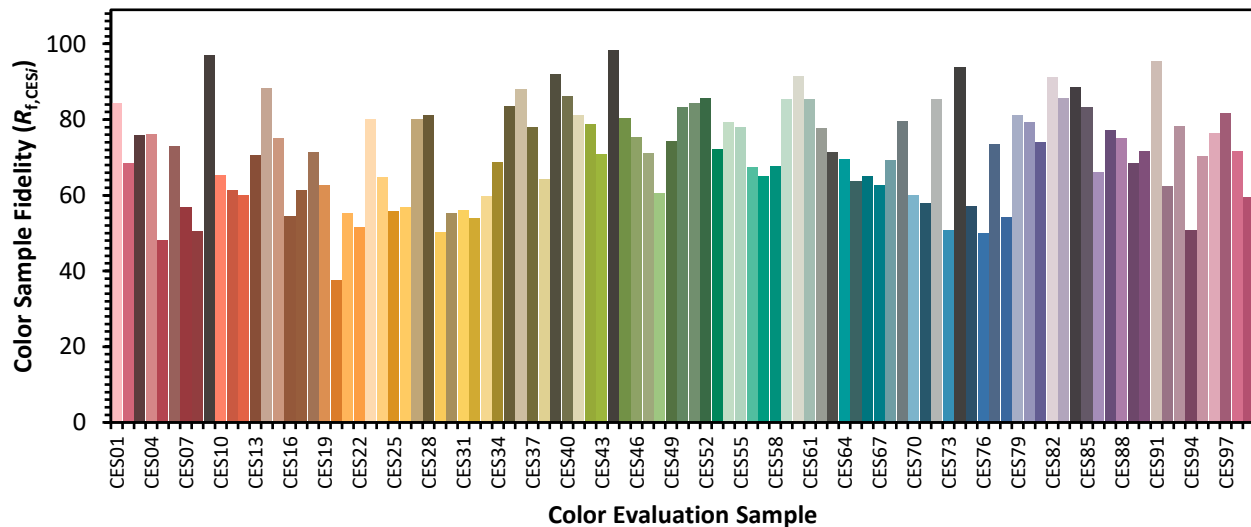


Color Vector Graphics

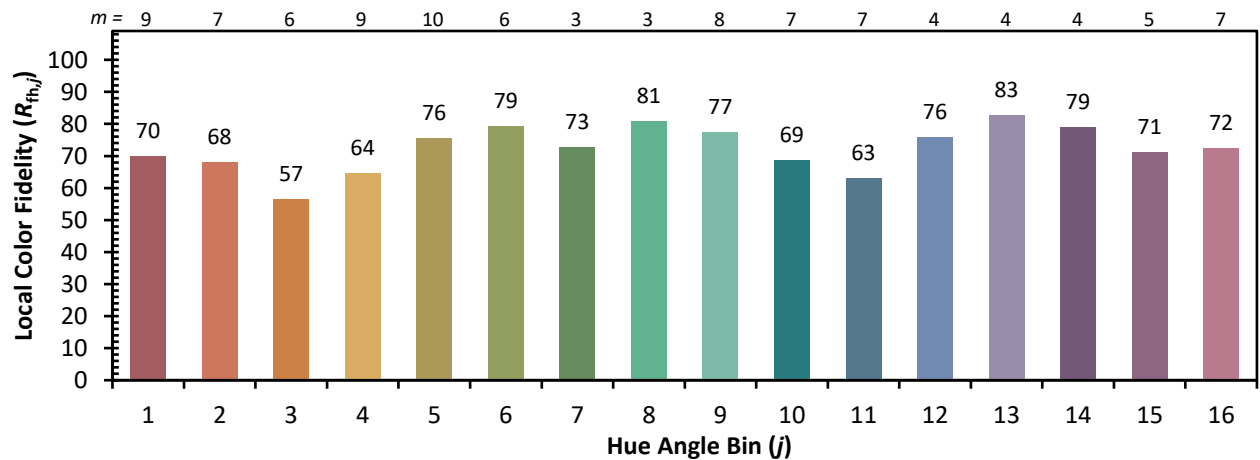
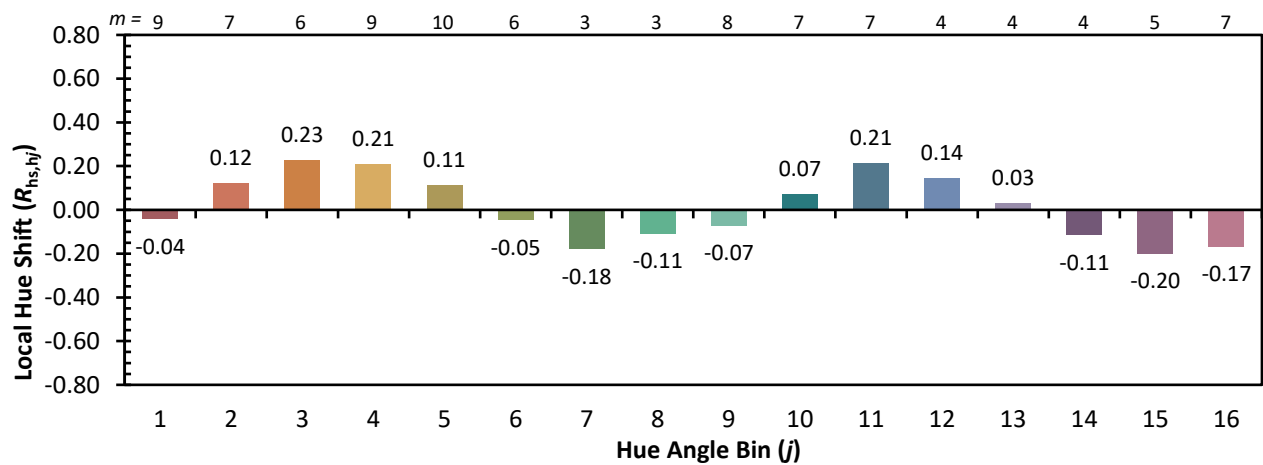
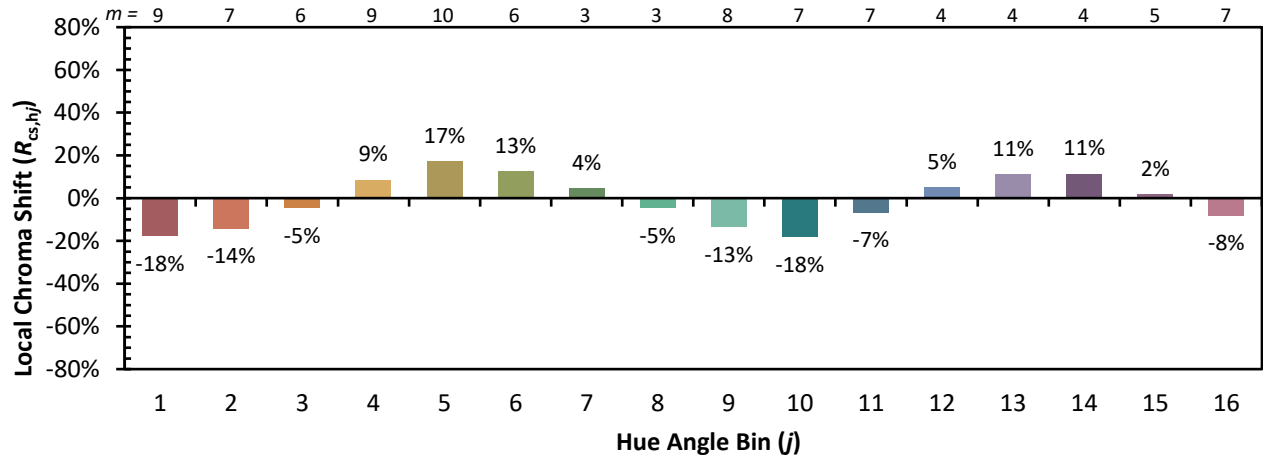


Individual Sample Fidelity Index ($R_{f,i}$)

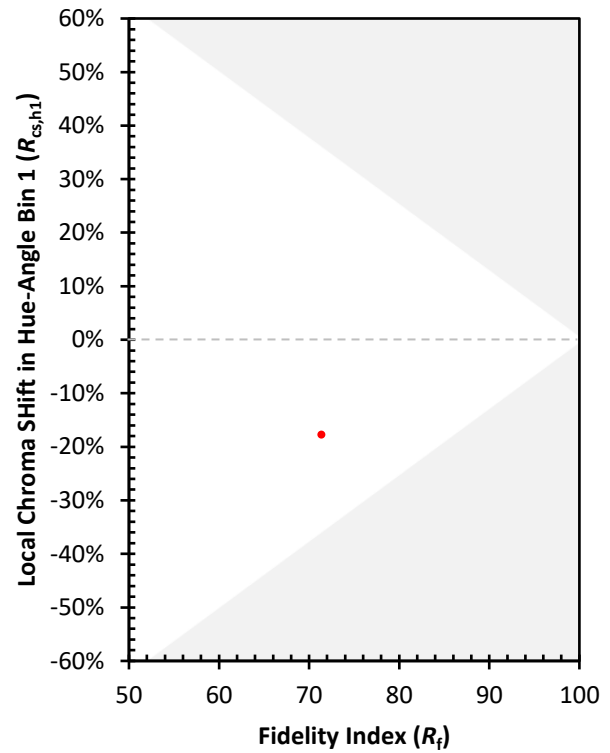
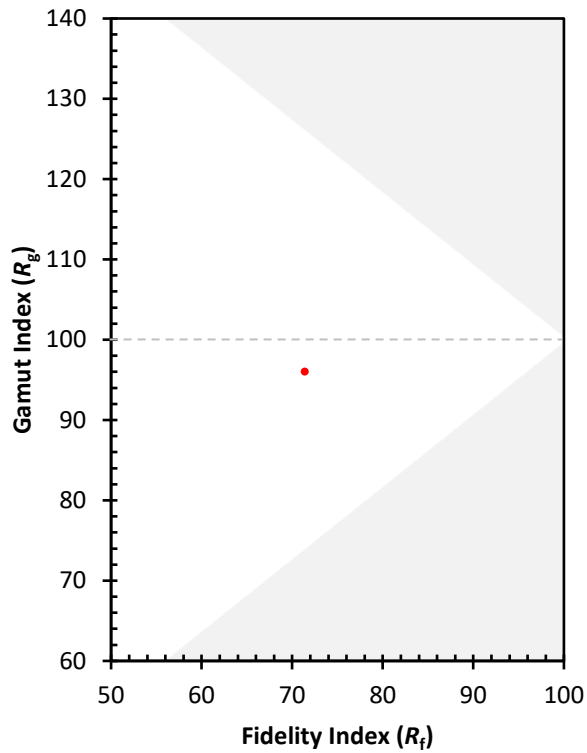
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 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)