

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: P1049653

Luminaire Tested: **GALN-SA4A-750-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049653
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13352.3 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

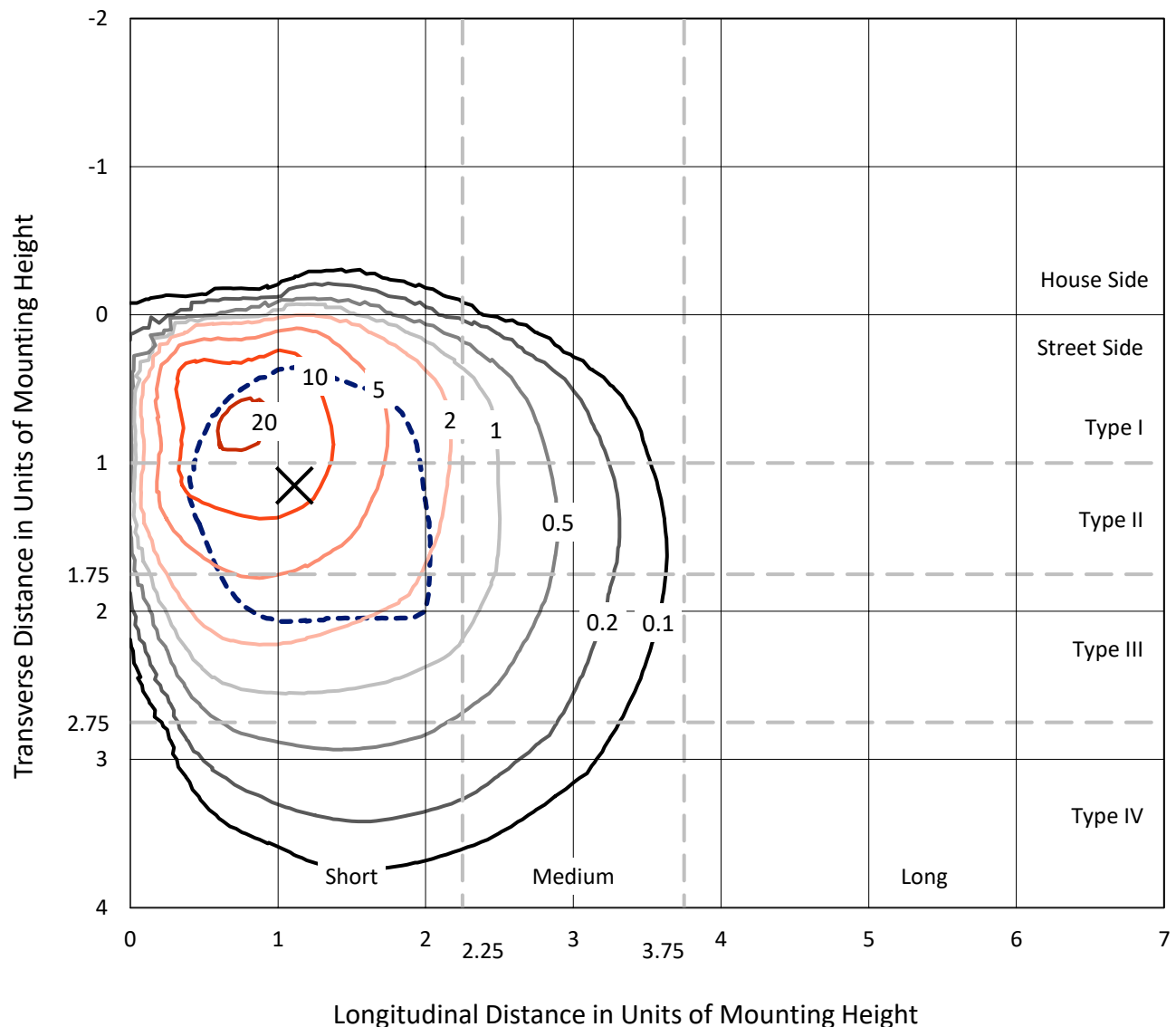
Input Watts (W): 107.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

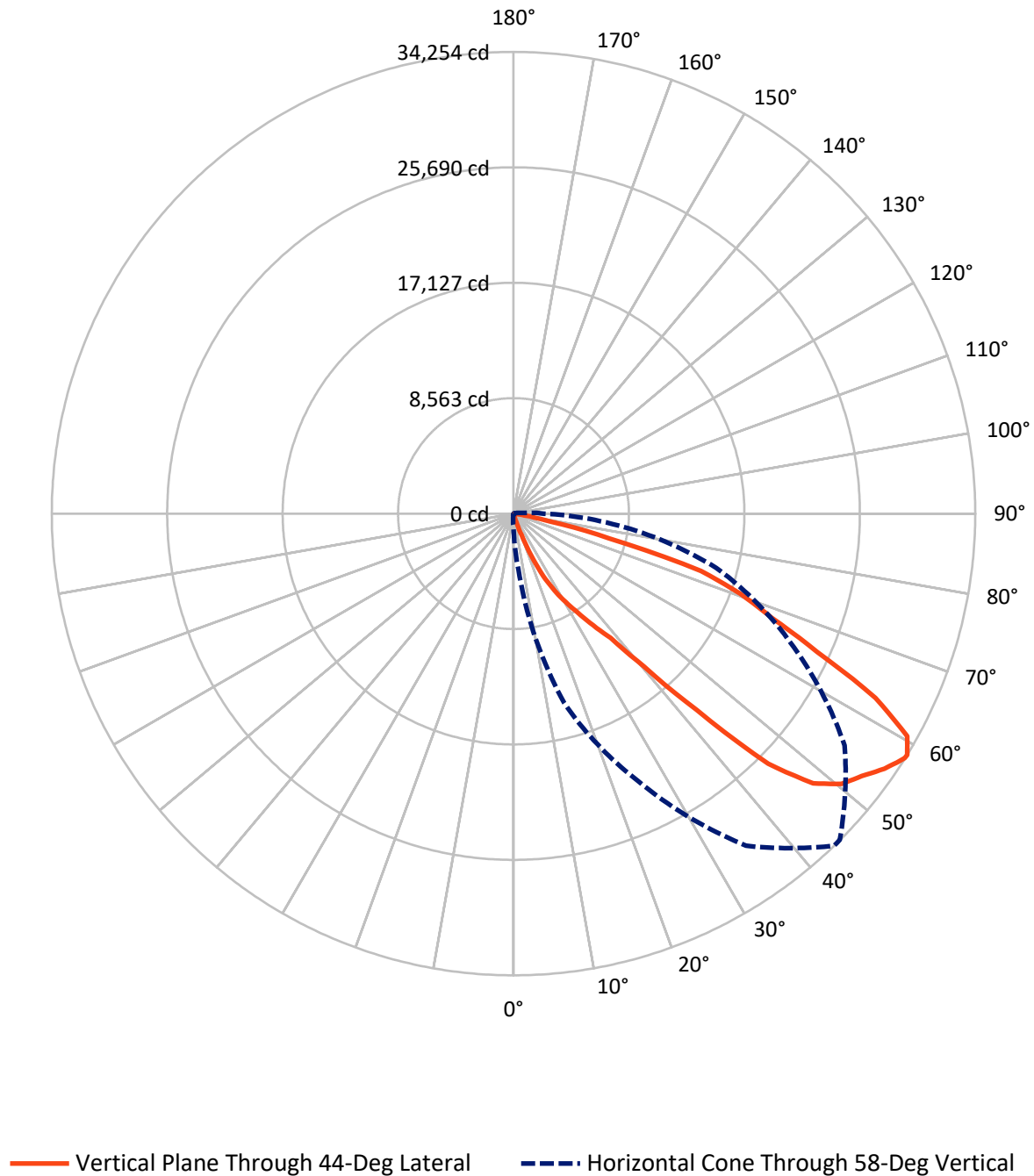
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.2 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	91.2	0.0	91.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	13261.2	0.0	13261.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	13352.3	0.0	13352.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.0
10°-20°	29.3	0.2
20°-30°	316.3	2.4
30°-40°	935.5	7.0
40°-50°	2788.2	20.9
50°-60°	4424.2	33.1
60°-70°	3690.3	27.6
70°-80°	1138.1	8.5
80°-90°	25.3	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°	13352.3	100.0
0°-180°	13352.3	100.0



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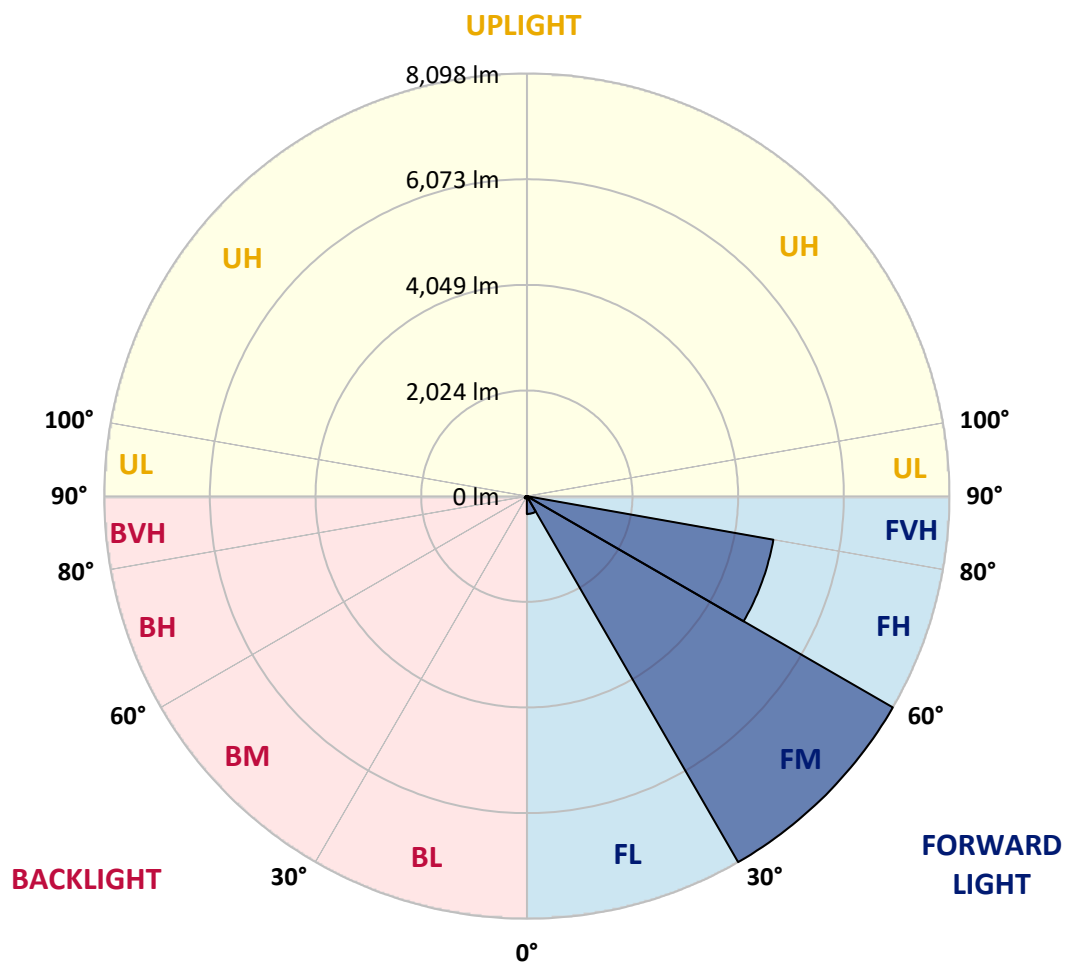
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	341.9	2.6			
FM	(30°-60°)	8097.9	60.6			
FH	(60°-80°)	4797.3	35.9			G2/5000
FVH	(80°-90°)	24.1	0.2			G1/100
BL	(0°-30°)	8.9	0.1	B0/110		
BM	(30°-60°)	49.9	0.4	B0/220		
BH	(60°-80°)	31.1	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°	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
2.5°	75.6	75.6	72.6	68.6	64.6	60.5	59.5	57.5	56.5	55.5
5°	78.7	78.7	77.7	74.6	70.6	67.6	67.6	64.6	62.5	60.5
7.5°	80.7	81.7	83.7	82.7	80.7	77.7	77.7	75.6	72.6	67.6
10°	83.7	86.7	90.8	92.8	93.8	93.8	92.8	91.8	86.7	79.7
12.5°	86.7	92.8	102.9	113.0	119.0	127.1	126.1	124.1	111.0	95.8
15°	92.8	101.9	123.1	152.3	197.7	225.9	237.0	226.9	183.6	129.1
17.5°	99.9	115.0	178.5	318.7	522.5	619.3	677.8	630.4	417.6	245.1
20°	106.9	140.2	331.8	826.1	1355.6	1672.4	1760.1	1622.9	1041.9	467.0
22.5°	119.0	196.7	672.8	1707.7	2921.1	3396.1	3485.9	3047.1	1967.9	921.9
25°	144.2	285.4	1160.0	2782.9	4359.4	5161.3	5124.0	4549.0	3192.4	1472.6
27.5°	180.5	415.6	1754.1	3953.9	5737.2	6444.3	6529.0	5817.9	4255.5	2165.6
30°	233.0	575.9	2391.5	4892.0	6841.7	7606.3	7620.4	6885.1	5206.7	2773.8
32.5°	283.4	727.2	2949.3	5798.8	7930.1	8768.2	8830.8	7926.0	5916.8	3407.2
35°	321.8	826.1	3514.2	6595.6	9027.5	10182.4	10178.3	9104.1	6758.0	3973.1
37.5°	324.8	924.9	4025.5	7410.6	10417.4	11710.5	11838.6	10654.4	7774.7	4673.1
40°	317.7	1035.9	4673.1	8681.5	12921.9	14905.9	15018.9	13526.1	9814.2	5871.4
42.5°	325.8	1228.5	5724.1	11028.6	17080.6	19930.0	20147.9	18578.4	13563.4	8316.4
45°	368.2	1590.6	7926.0	14955.3	23008.4	26482.3	26409.6	24149.2	17925.8	12038.3
47.5°	508.4	2477.3	11190.0	18777.1	26797.0	29890.5	29953.0	27190.3	20471.7	14899.9
50°	781.7	3790.5	13932.6	20797.5	28425.9	31529.6	31471.1	28278.7	21439.0	16309.0
52.5°	1016.7	4740.7	15308.4	21506.6	28634.7	32339.5	32335.5	28565.1	21589.3	16430.0
55°	1075.2	4812.3	15319.5	21544.9	29102.7	33399.6	33532.8	29270.2	21783.9	15901.5
57.5°	1052.0	4260.6	14680.0	21766.8	29935.9	34219.7	34226.7	29953.0	22278.2	15577.7
58°	1031.9	4173.8	14550.9	21892.9	30079.1	34253.9	34236.8	29984.3	22680.6	15565.6
60°	918.9	3624.1	14047.5	22214.6	29866.3	33549.9	33389.5	29301.4	22621.1	15441.5
62.5°	722.2	2827.3	13552.3	21842.4	27584.7	30141.7	30208.2	25941.6	20622.0	14718.3
65°	574.9	2107.1	12519.4	19159.4	22714.9	24752.4	25000.5	21095.0	17212.7	12462.9
67.5°	457.9	1523.1	10502.1	15253.9	17974.2	20658.3	20838.8	17711.0	13335.4	9548.9
70°	372.2	1029.8	7249.2	11155.7	14825.2	17843.1	17854.2	14713.3	9953.4	6256.7
72.5°	329.8	713.1	4208.1	8135.8	12021.2	14539.8	14246.3	11939.5	7649.6	3705.8
75°	285.4	473.1	2063.7	4973.7	7288.5	7338.0	7449.9	5538.5	3823.8	1762.1
77.5°	235.0	335.9	813.0	1358.7	2185.8	2798.0	2901.9	2198.9	1271.9	433.7
80°	161.4	159.4	218.9	416.6	625.4	783.7	731.3	565.9	332.9	166.4
82.5°	69.6	75.6	98.8	119.0	96.8	93.8	89.8	57.5	44.4	34.3
85°	22.2	20.2	21.2	21.2	17.1	13.1	13.1	6.1	0.0	0.0
87.5°	11.1	9.1	9.1	8.1	5.0	2.0	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°
58.5	0°	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
54.5	2.5°	53.5	53.5	51.4	49.4	48.4	46.4	45.4	44.4	43.4	42.4
58.5	5°	56.5	55.5	52.5	49.4	46.4	43.4	41.4	39.3	37.3	36.3
64.6	7.5°	61.5	59.5	53.5	48.4	44.4	40.3	38.3	35.3	33.3	30.3
71.6	10°	67.6	63.5	55.5	49.4	43.4	38.3	35.3	32.3	29.3	25.2
81.7	12.5°	75.6	68.6	58.5	48.4	41.4	35.3	32.3	28.2	25.2	22.2
94.8	15°	82.7	73.6	59.5	48.4	39.3	32.3	28.2	24.2	21.2	17.1
119.0	17.5°	92.8	77.7	58.5	45.4	36.3	28.2	24.2	21.2	16.1	10.1
176.5	20°	109.9	80.7	56.5	42.4	31.3	23.2	18.2	14.1	7.1	2.0
265.3	22.5°	137.2	88.8	54.5	38.3	27.2	18.2	12.1	5.0	0.0	0.0
403.5	25°	189.6	102.9	54.5	36.3	24.2	13.1	4.0	0.0	0.0	0.0
572.9	27.5°	252.2	122.0	54.5	31.3	19.2	7.1	0.0	0.0	0.0	0.0
780.7	30°	315.7	143.2	54.5	27.2	15.1	1.0	0.0	0.0	0.0	0.0
961.2	32.5°	376.2	161.4	55.5	23.2	10.1	0.0	0.0	0.0	0.0	0.0
1211.4	35°	437.8	164.4	54.5	20.2	6.1	0.0	0.0	0.0	0.0	0.0
1518.0	37.5°	516.4	158.4	51.4	18.2	3.0	0.0	0.0	0.0	0.0	0.0
1997.1	40°	635.5	161.4	48.4	17.1	1.0	0.0	0.0	0.0	0.0	0.0
2851.5	42.5°	855.3	174.5	44.4	17.1	0.0	0.0	0.0	0.0	0.0	0.0
4542.0	45°	1478.7	234.0	40.3	18.2	0.0	0.0	0.0	0.0	0.0	0.0
6818.5	47.5°	2446.0	420.6	39.3	18.2	0.0	0.0	0.0	0.0	0.0	0.0
8213.5	50°	3121.8	529.5	41.4	19.2	0.0	0.0	0.0	0.0	0.0	0.0
8388.0	52.5°	3116.7	590.1	43.4	20.2	4.0	0.0	0.0	0.0	0.0	0.0
7731.3	55°	2770.8	601.2	46.4	22.2	13.1	0.0	0.0	0.0	0.0	0.0
6644.0	57.5°	2315.9	548.7	53.5	27.2	24.2	0.0	0.0	0.0	0.0	0.0
6473.6	58°	2235.2	524.5	55.5	28.2	26.2	0.0	0.0	0.0	0.0	0.0
5615.2	60°	1831.7	427.7	70.6	35.3	35.3	0.0	0.0	0.0	0.0	0.0
4603.5	62.5°	1264.9	373.2	80.7	45.4	36.3	0.0	0.0	0.0	0.0	0.0
3394.1	65°	894.7	336.9	87.8	48.4	29.3	0.0	0.0	0.0	0.0	0.0
2411.7	67.5°	668.7	310.7	96.8	49.4	15.1	0.0	0.0	0.0	0.0	0.0
1513.0	70°	512.4	291.5	119.0	52.5	4.0	0.0	0.0	0.0	0.0	0.0
901.7	72.5°	417.6	269.3	144.2	54.5	0.0	0.0	0.0	0.0	0.0	0.0
540.6	75°	346.0	243.1	139.2	59.5	0.0	0.0	0.0	0.0	0.0	0.0
288.5	77.5°	230.0	188.6	127.1	59.5	0.0	0.0	0.0	0.0	0.0	0.0
102.9	80°	80.7	74.6	98.8	52.5	0.0	0.0	0.0	0.0	0.0	0.0
21.2	82.5°	12.1	10.1	14.1	18.2	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°
58.5	0°	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
41.4	2.5°	41.4	41.4	40.3	41.4	41.4	43.4	48.4	55.5	63.5	66.6
35.3	5°	34.3	33.3	32.3	32.3	32.3	35.3	39.3	47.4	56.5	60.5
29.3	7.5°	28.2	27.2	26.2	25.2	25.2	27.2	32.3	41.4	50.4	54.5
24.2	10°	23.2	21.2	20.2	19.2	19.2	21.2	26.2	35.3	45.4	49.4
20.2	12.5°	19.2	16.1	14.1	13.1	12.1	15.1	20.2	28.2	39.3	44.4
15.1	15°	13.1	10.1	7.1	6.1	5.0	8.1	13.1	22.2	33.3	39.3
8.1	17.5°	7.1	3.0	1.0	0.0	0.0	2.0	6.1	16.1	27.2	32.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	20.2	25.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	12.1	17.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	9.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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	3.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.1
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°
58.5	0°	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
69.6	2.5°	71.6	70.6	68.6	66.6	66.6	66.6	69.6	72.6	75.6	75.6
62.5	5°	66.6	66.6	65.6	63.5	63.5	64.6	68.6	73.6	77.7	78.7
57.5	7.5°	61.5	63.5	61.5	60.5	61.5	62.5	66.6	72.6	78.7	80.7
53.5	10°	58.5	59.5	59.5	58.5	58.5	60.5	64.6	72.6	80.7	83.7
48.4	12.5°	54.5	56.5	55.5	55.5	55.5	57.5	62.5	71.6	82.7	86.7
43.4	15°	50.4	53.5	53.5	52.5	52.5	53.5	60.5	70.6	85.7	92.8
37.3	17.5°	46.4	49.4	50.4	48.4	48.4	50.4	57.5	70.6	87.8	99.9
30.3	20°	38.3	43.4	46.4	43.4	43.4	45.4	52.5	66.6	88.8	106.9
22.2	22.5°	30.3	35.3	39.3	38.3	38.3	39.3	48.4	63.5	89.8	119.0
13.1	25°	22.2	27.2	30.3	32.3	32.3	35.3	44.4	61.5	93.8	144.2
6.1	27.5°	13.1	19.2	23.2	25.2	26.2	30.3	41.4	59.5	100.9	180.5
0.0	30°	6.1	11.1	16.1	20.2	20.2	27.2	38.3	57.5	109.9	233.0
0.0	32.5°	0.0	5.0	8.1	14.1	15.1	22.2	35.3	55.5	123.1	283.4
0.0	35°	0.0	0.0	4.0	11.1	11.1	18.2	32.3	53.5	143.2	321.8
0.0	37.5°	0.0	0.0	0.0	8.1	9.1	16.1	31.3	52.5	147.3	324.8
0.0	40°	0.0	0.0	0.0	6.1	7.1	15.1	31.3	53.5	133.1	317.7
0.0	42.5°	0.0	0.0	0.0	4.0	5.0	15.1	31.3	55.5	120.0	325.8
0.0	45°	0.0	0.0	0.0	3.0	4.0	16.1	30.3	54.5	113.0	368.2
0.0	47.5°	0.0	0.0	0.0	4.0	6.1	16.1	29.3	53.5	114.0	508.4
0.0	50°	0.0	0.0	0.0	5.0	7.1	16.1	30.3	51.4	125.1	781.7
0.0	52.5°	0.0	0.0	0.0	4.0	6.1	18.2	33.3	50.4	136.2	1016.7
0.0	55°	0.0	0.0	0.0	1.0	3.0	23.2	36.3	50.4	153.3	1075.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	26.2	41.4	53.5	181.6	1052.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	26.2	42.4	53.5	183.6	1031.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	26.2	46.4	59.5	197.7	918.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	22.2	55.5	74.6	205.8	722.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	18.2	65.6	81.7	211.8	574.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	17.1	67.6	82.7	214.8	457.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	18.2	66.6	88.8	224.9	372.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	20.2	60.5	97.8	224.9	329.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	21.2	56.5	109.9	204.8	285.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	20.2	55.5	128.1	182.6	235.0
0.0	80°	2.0	3.0	3.0	2.0	2.0	17.1	54.5	130.1	155.3	161.4
1.0	82.5°	6.1	8.1	7.1	5.0	5.0	15.1	48.4	108.9	80.7	69.6
6.1	85°	11.1	13.1	13.1	11.1	11.1	14.1	30.3	39.3	27.2	22.2
11.1	87.5°	15.1	17.1	17.1	15.1	15.1	14.1	13.1	12.1	11.1	11.1
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: SP1-2407-184-6

Test Date: 10/10/2024

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

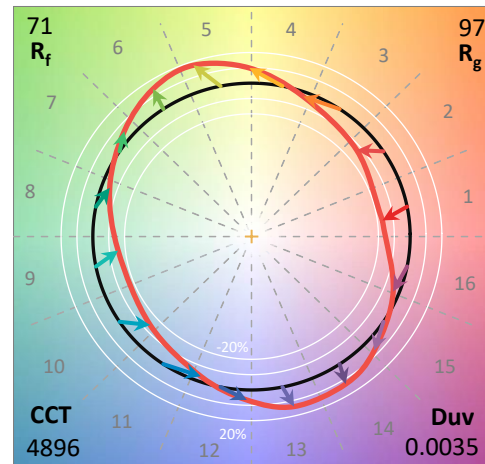
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

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

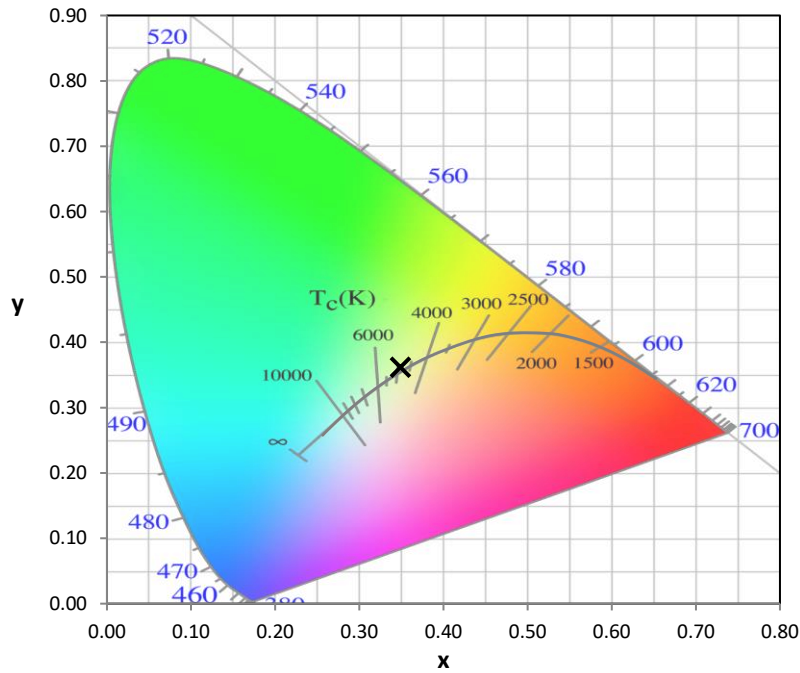
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

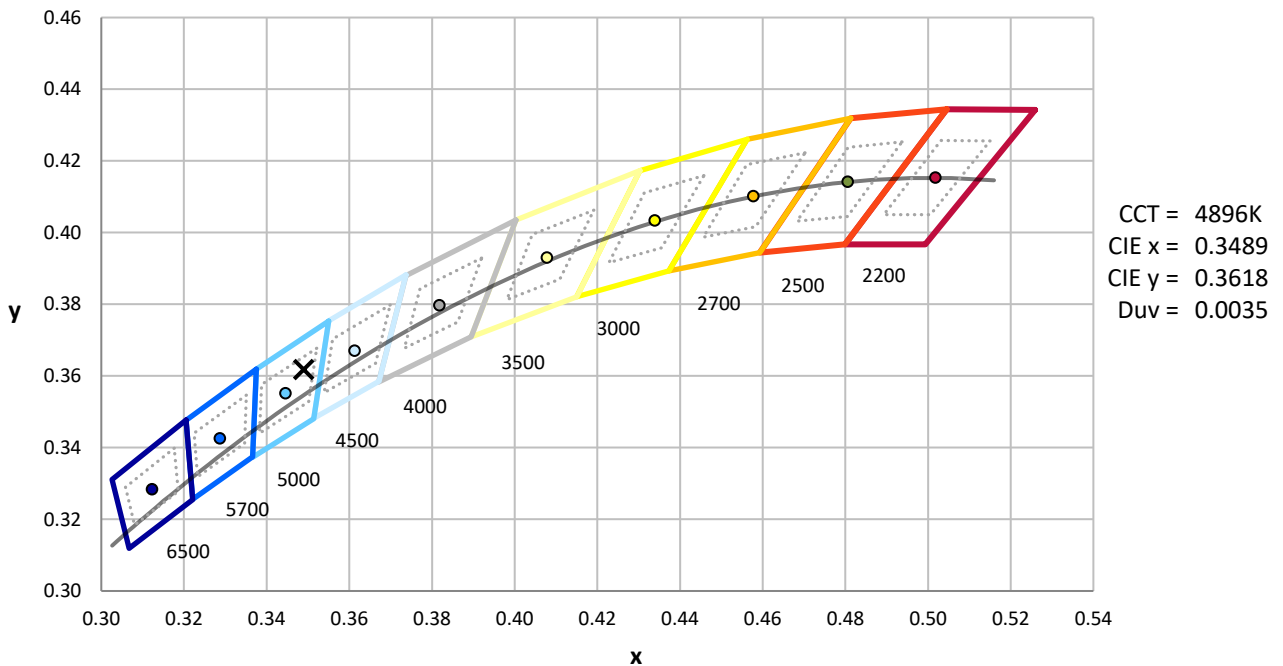
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



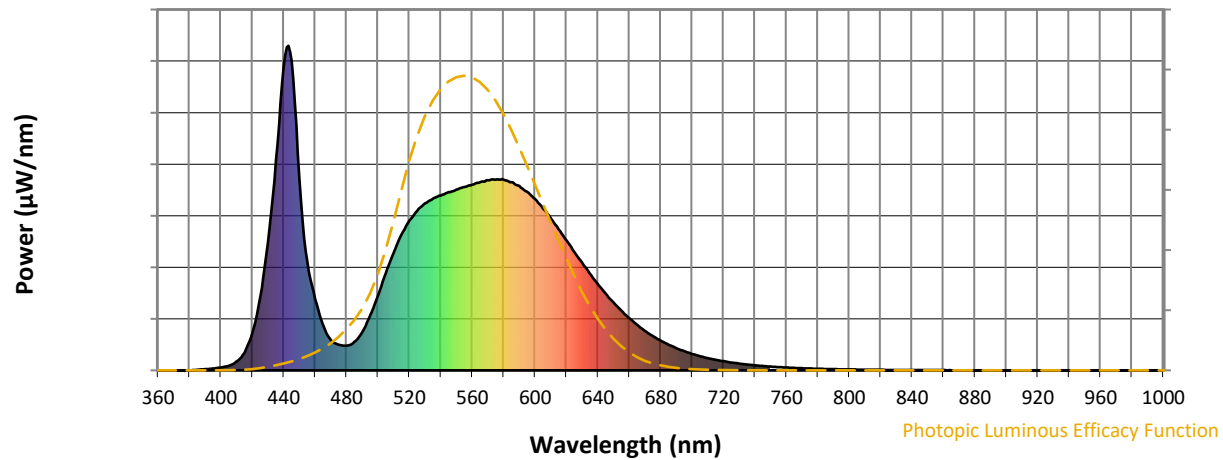
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

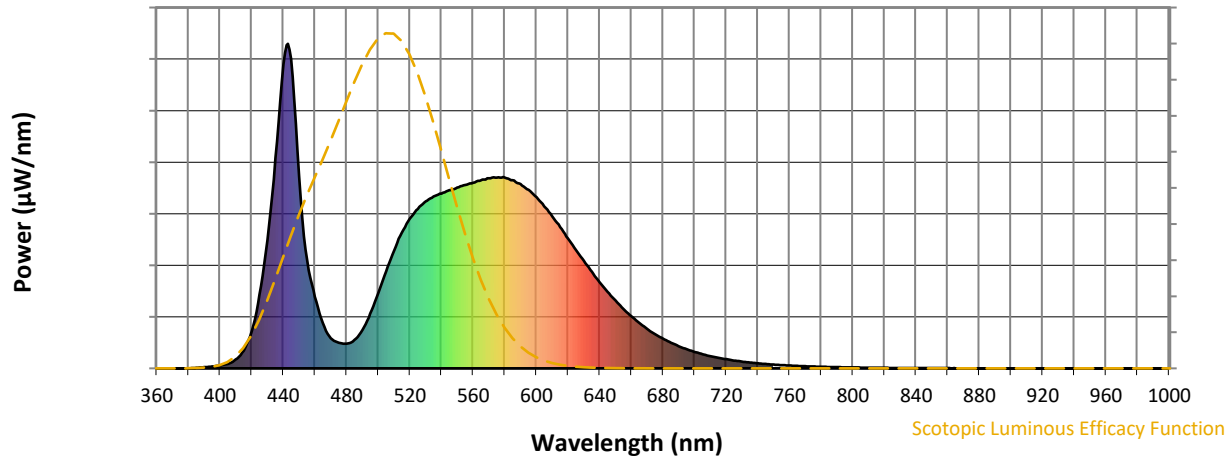


Photopic Lumens: NR

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



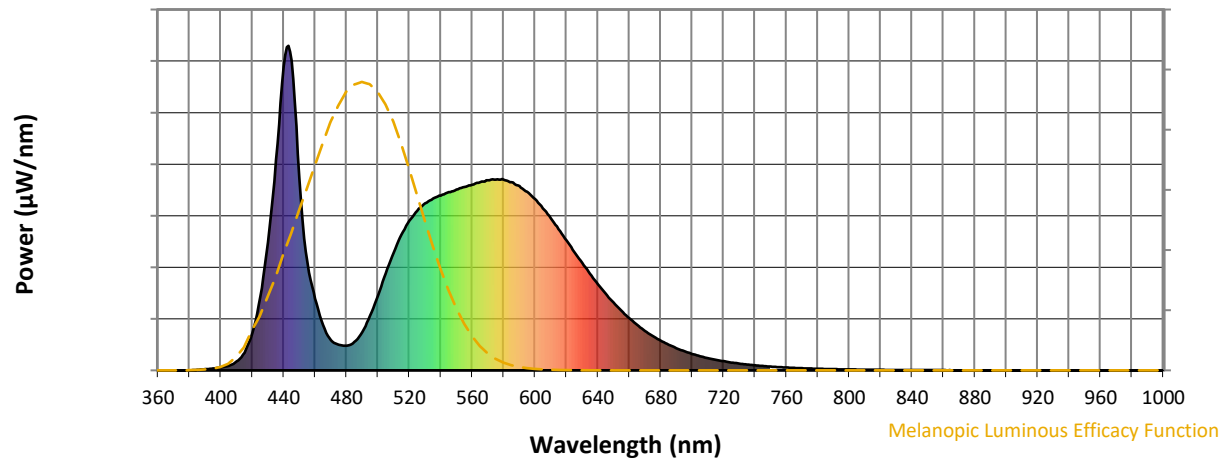
Scotopic Lumens: NR

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

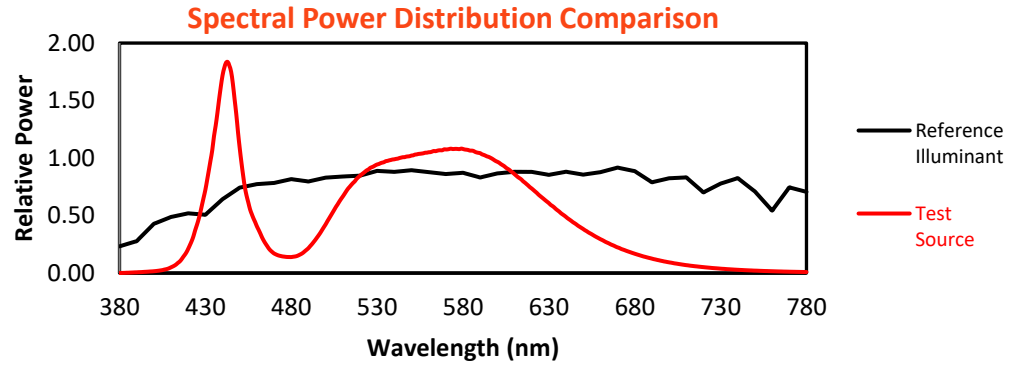
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	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

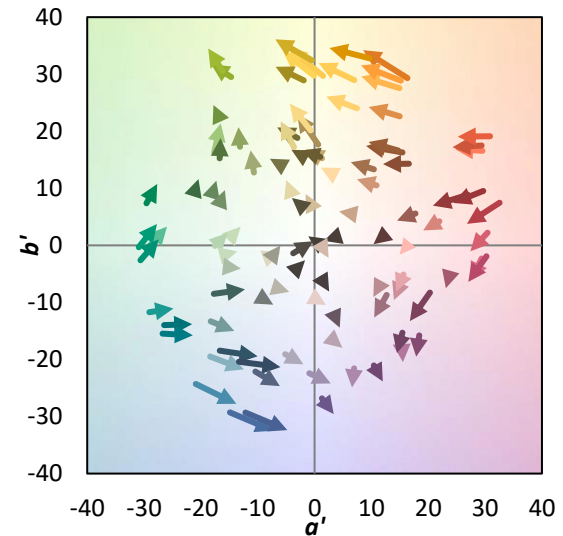
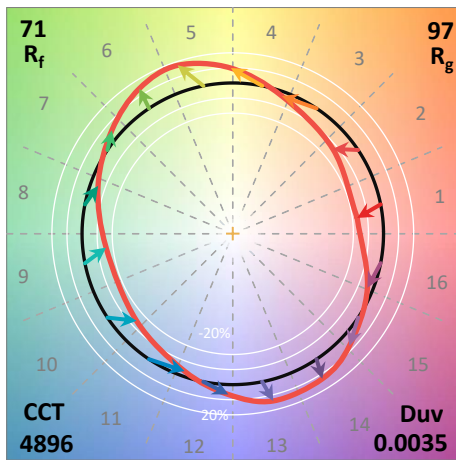
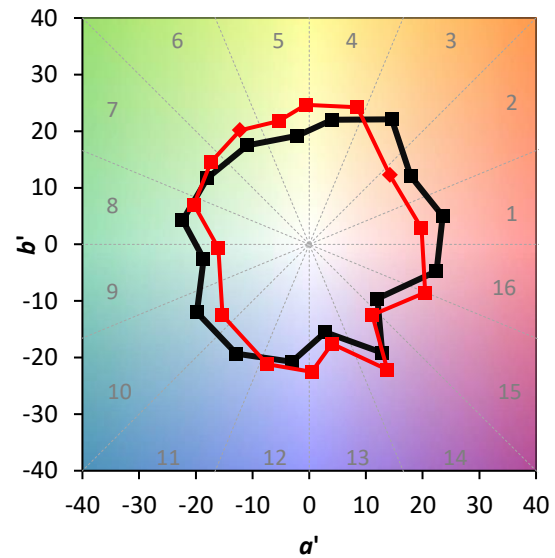
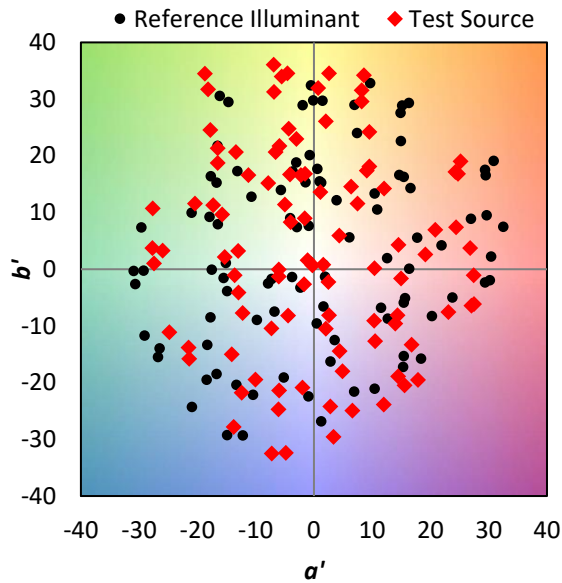
TM-30-18

Summary

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

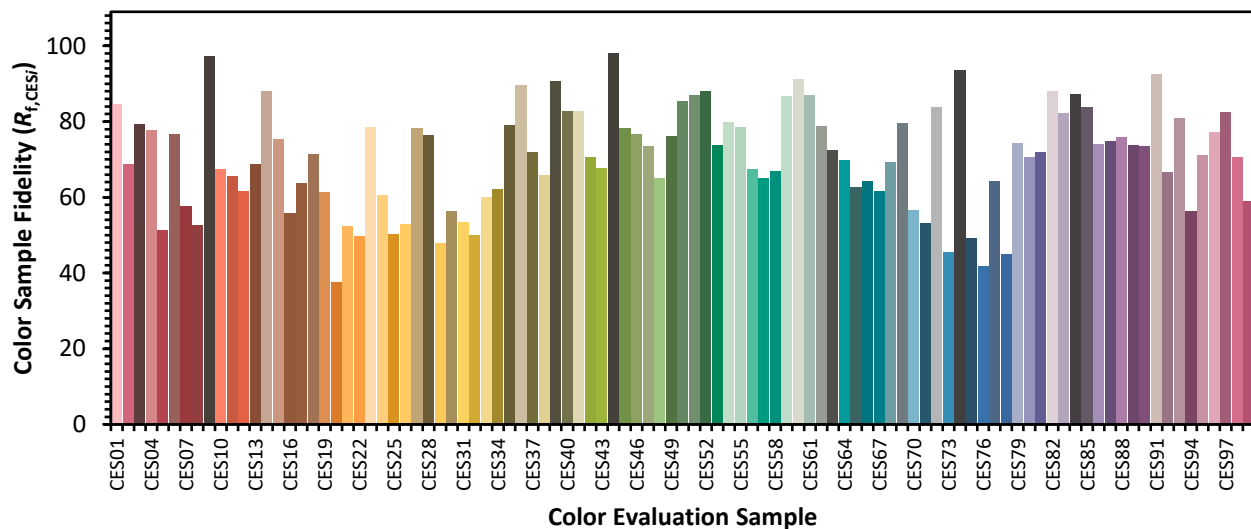


Color Vector Graphics

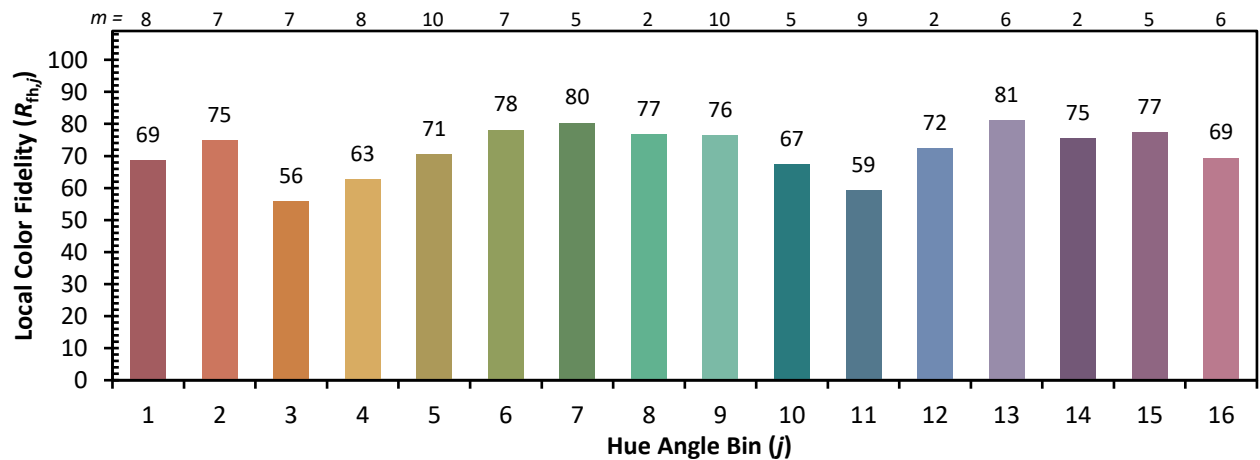
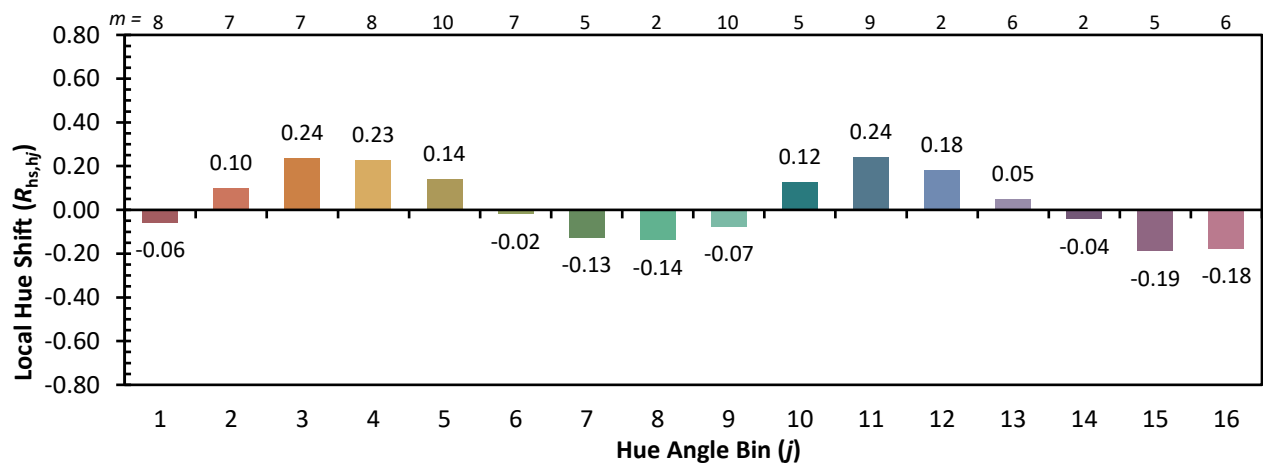
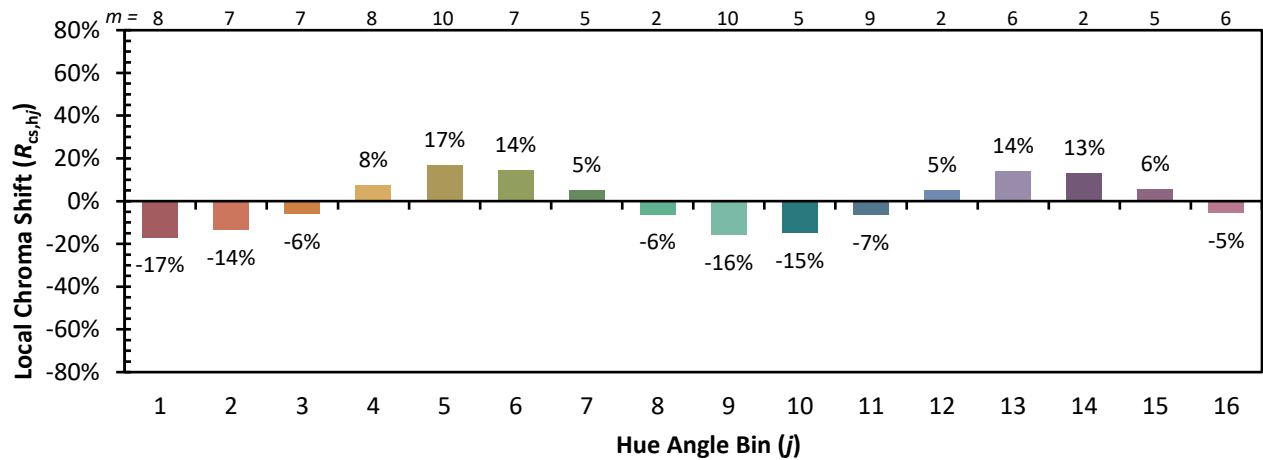


Individual Sample Fidelity Index ($R_{f,i}$)

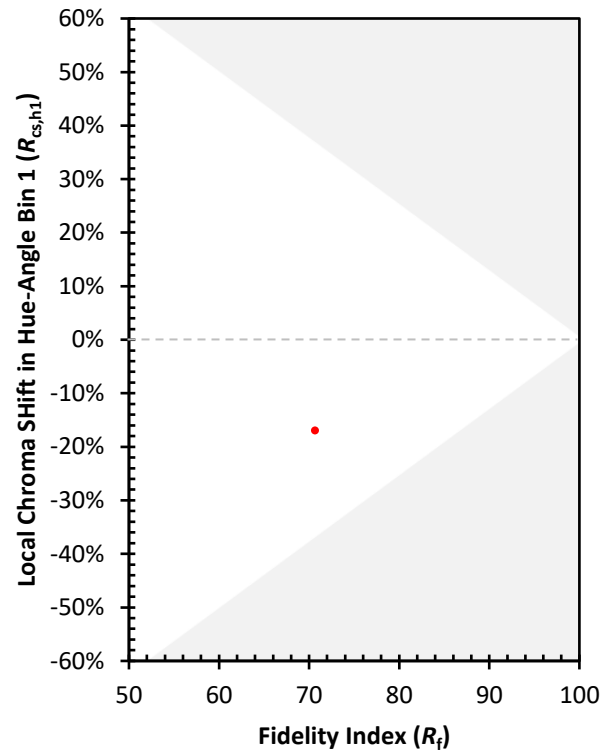
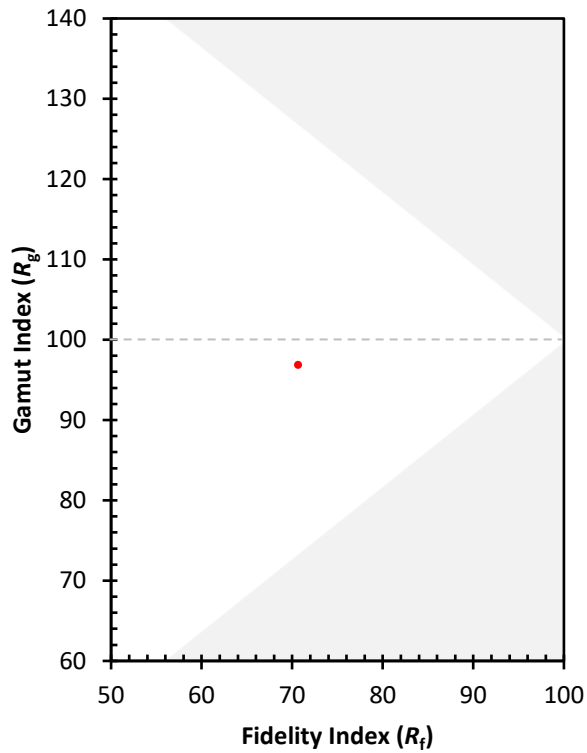
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 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)