

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: P1049651

Luminaire Tested: **GALN-SA3C-750-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049651
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15541 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 140.4
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

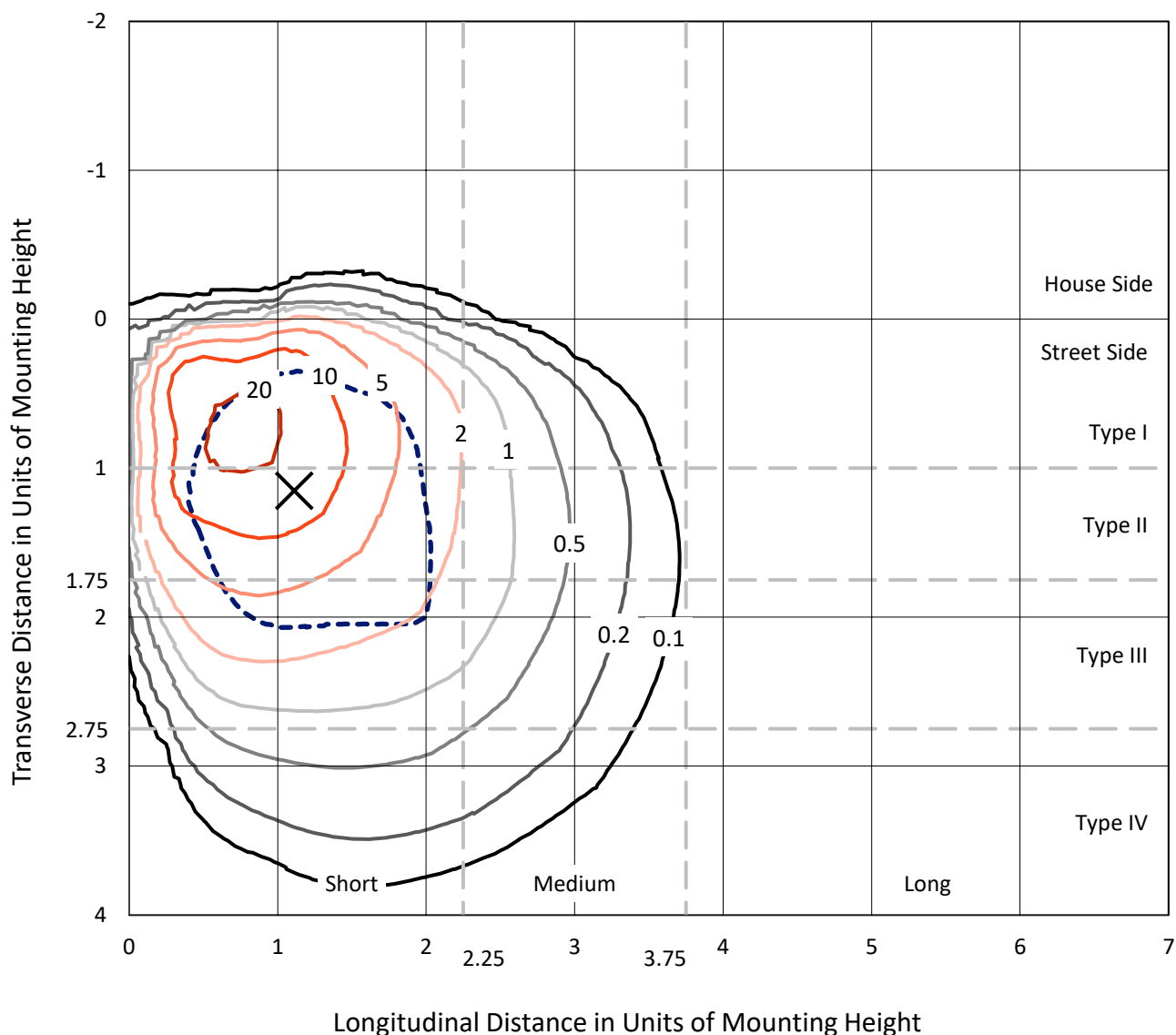
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

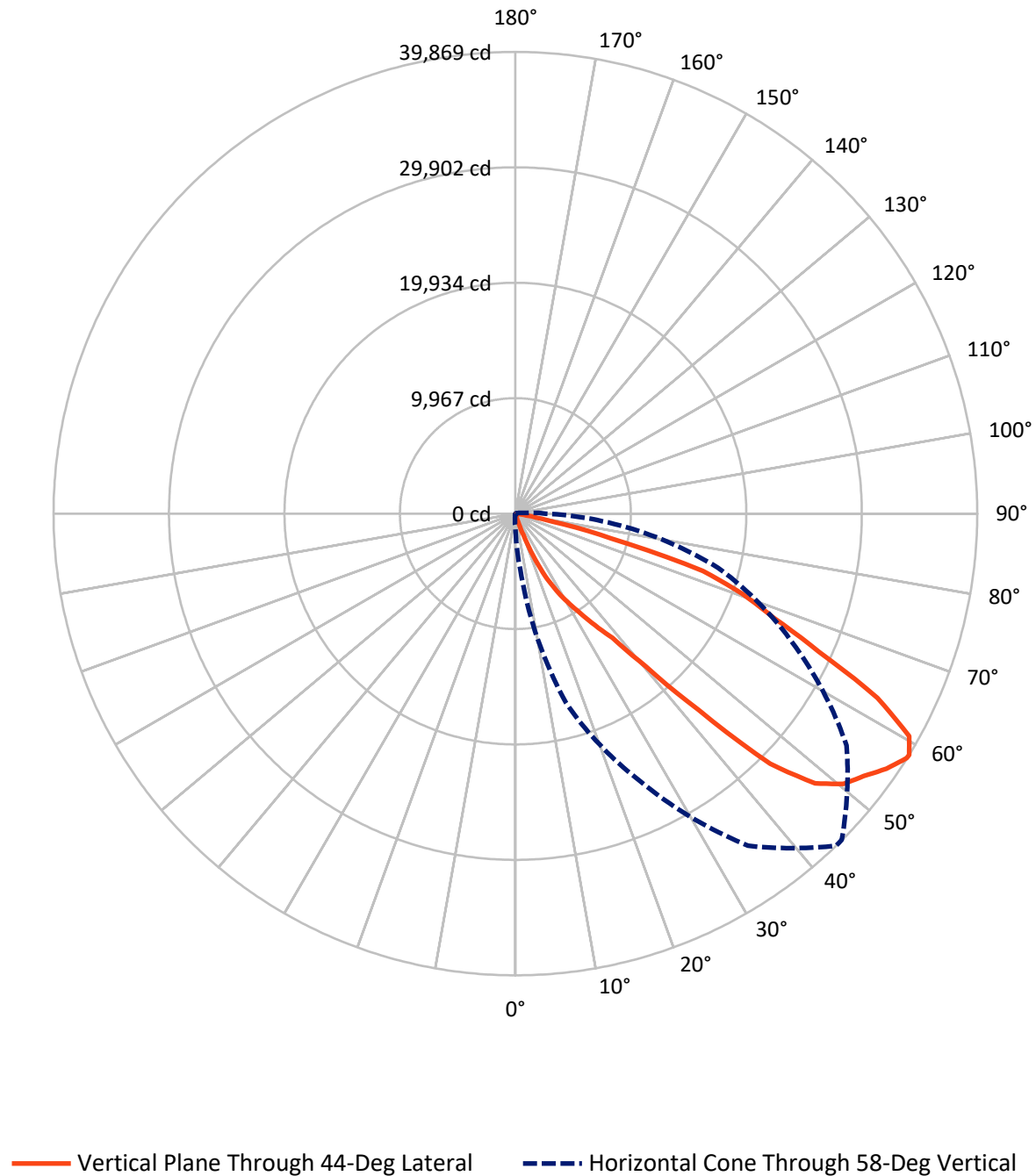


Based on 20 foot mounting height. Maximum calculated value = 27.1 fc

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	106.1	0.0	106.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	15434.9	0.0	15434.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	15541.0	0.0	15541.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.0
10°-20°	34.1	0.2
20°-30°	368.2	2.4
30°-40°	1088.8	7.0
40°-50°	3245.2	20.9
50°-60°	5149.4	33.1
60°-70°	4295.2	27.6
70°-80°	1324.7	8.5
80°-90°	29.4	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°	15541.0	100.0
0°-180°	15541.0	100.0



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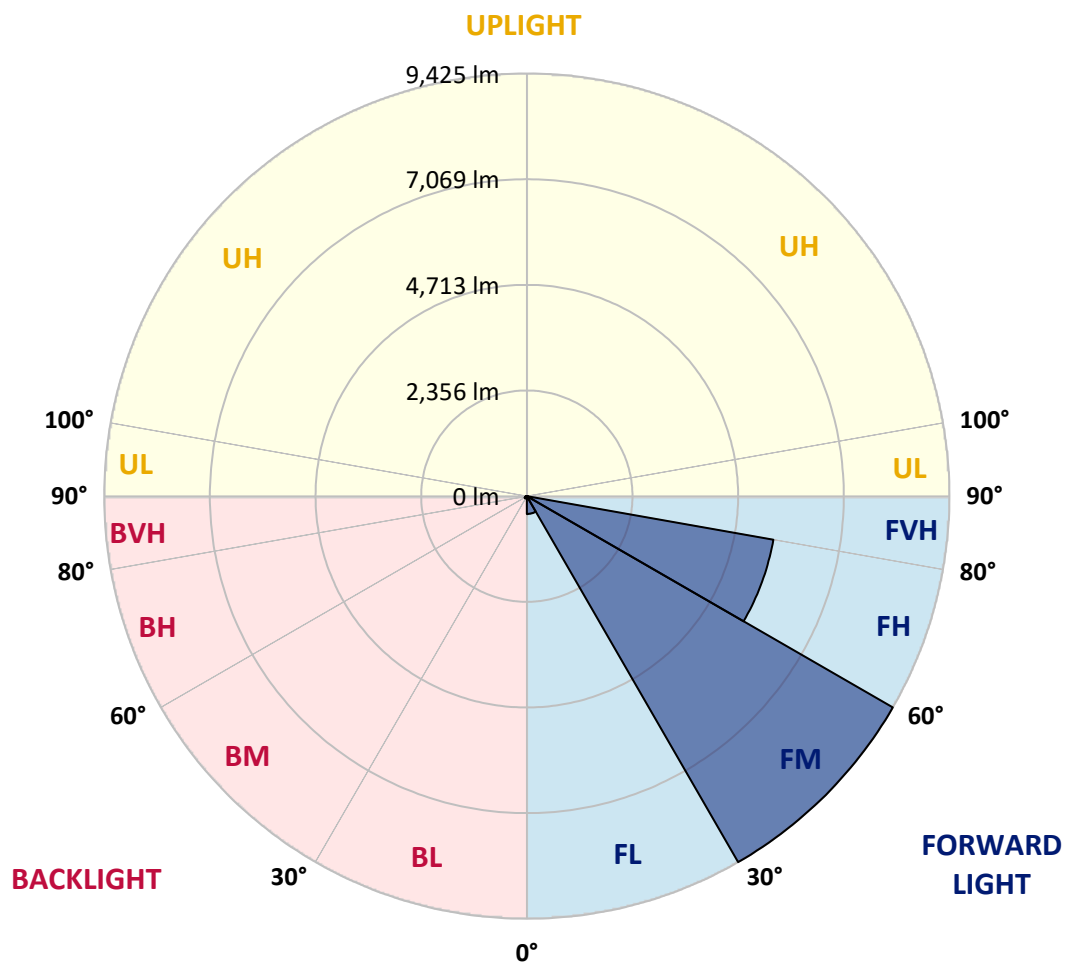
CATALOG NUMBER: GALN-SA3C-750-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	397.9	2.6			
FM	(30°-60°)	9425.3	60.6			
FH	(60°-80°)	5583.7	35.9			G3/7500
FVH	(80°-90°)	28.0	0.2			G1/100
BL	(0°-30°)	10.4	0.1	B0/110		
BM	(30°-60°)	58.1	0.4	B0/220		
BH	(60°-80°)	36.2	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
2.5°	88.0	88.0	84.5	79.8	75.1	70.4	69.3	66.9	65.7	64.6
5°	91.6	91.6	90.4	86.9	82.2	78.7	78.7	75.1	72.8	70.4
7.5°	93.9	95.1	97.4	96.3	93.9	90.4	90.4	88.0	84.5	78.7
10°	97.4	101.0	105.7	108.0	109.2	109.2	108.0	106.8	101.0	92.7
12.5°	101.0	108.0	119.7	131.5	138.5	147.9	146.7	144.4	129.1	111.5
15°	108.0	118.6	143.2	177.3	230.1	263.0	275.9	264.1	213.7	150.3
17.5°	116.2	133.8	207.8	371.0	608.1	720.8	788.9	733.7	486.0	285.3
20°	124.4	163.2	386.2	961.5	1577.8	1946.5	2048.6	1889.0	1212.7	543.6
22.5°	138.5	228.9	783.1	1987.6	3399.9	3952.8	4057.3	3546.6	2290.5	1073.0
25°	167.9	332.2	1350.1	3239.0	5074.0	6007.3	5963.9	5294.7	3715.7	1714.0
27.5°	210.1	483.7	2041.6	4602.0	6677.7	7500.6	7599.2	6771.6	4953.1	2520.6
30°	271.2	670.3	2783.5	5693.9	7963.2	8853.1	8869.5	8013.7	6060.1	3228.5
32.5°	329.9	846.4	3432.8	6749.3	9229.9	10205.5	10278.3	9225.2	6886.6	3965.7
35°	374.5	961.5	4090.2	7676.7	10507.2	11851.4	11846.8	10596.4	7865.7	4624.4
37.5°	378.0	1076.6	4685.4	8625.3	12125.0	13630.0	13779.1	12400.9	9049.1	5439.1
40°	369.8	1205.7	5439.1	10104.5	15040.0	17349.2	17480.7	15743.2	11422.9	6833.8
42.5°	379.2	1429.9	6662.4	12836.4	19880.4	23196.9	23450.5	21623.8	15786.7	9679.6
45°	428.5	1851.4	9225.2	17406.8	26779.9	30823.2	30738.6	28107.7	20864.2	14011.6
47.5°	591.7	2883.3	13024.3	21855.0	31189.4	34790.1	34862.9	31647.3	23827.3	17342.2
50°	909.8	4411.9	16216.3	24206.5	33085.4	36697.8	36629.7	32914.0	24953.2	18982.3
52.5°	1183.4	5517.8	17817.7	25031.9	33328.5	37640.5	37635.8	33247.4	25128.1	19123.2
55°	1251.5	5601.1	17830.6	25076.5	33873.2	38874.4	39029.4	34068.1	25354.7	18508.0
57.5°	1224.5	4958.9	17086.3	25334.7	34842.9	39828.8	39837.1	34862.9	25930.0	18131.1
58°	1201.0	4858.0	16936.0	25481.5	35009.6	39868.8	39848.8	34899.3	26398.4	18117.0
60°	1069.5	4218.2	16350.2	25856.0	34761.9	39049.3	38862.6	34104.5	26329.1	17972.6
62.5°	840.6	3290.7	15773.8	25422.8	32106.3	35082.4	35159.9	30193.9	24002.3	17130.9
65°	669.2	2452.5	14571.6	22300.0	26438.3	28809.8	29098.6	24552.9	20034.2	14505.8
67.5°	533.0	1772.7	12223.6	17754.3	20920.5	24044.5	24254.7	20614.1	15521.3	11114.2
70°	433.2	1198.6	8437.5	12984.3	17255.3	20767.9	20780.8	17125.0	11585.0	7282.3
72.5°	383.9	830.0	4897.9	9469.4	13991.6	16923.1	16581.5	13896.5	8903.6	4313.2
75°	332.2	550.6	2402.0	5789.0	8483.3	8540.8	8671.1	6446.4	4450.6	2051.0
77.5°	273.5	390.9	946.2	1581.4	2544.0	3256.7	3377.6	2559.3	1480.4	504.8
80°	187.8	185.5	254.8	484.9	727.9	912.2	851.1	658.6	387.4	193.7
82.5°	81.0	88.0	115.1	138.5	112.7	109.2	104.5	66.9	51.7	39.9
85°	25.8	23.5	24.7	24.7	20.0	15.3	15.3	7.0	0.0	0.0
87.5°	12.9	10.6	10.6	9.4	5.9	2.3	1.2	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°
68.1	0°	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
63.4	2.5°	62.2	62.2	59.9	57.5	56.4	54.0	52.8	51.7	50.5	49.3
68.1	5°	65.7	64.6	61.0	57.5	54.0	50.5	48.1	45.8	43.4	42.3
75.1	7.5°	71.6	69.3	62.2	56.4	51.7	47.0	44.6	41.1	38.7	35.2
83.4	10°	78.7	74.0	64.6	57.5	50.5	44.6	41.1	37.6	34.0	29.3
95.1	12.5°	88.0	79.8	68.1	56.4	48.1	41.1	37.6	32.9	29.3	25.8
110.4	15°	96.3	85.7	69.3	56.4	45.8	37.6	32.9	28.2	24.7	20.0
138.5	17.5°	108.0	90.4	68.1	52.8	42.3	32.9	28.2	24.7	18.8	11.7
205.4	20°	128.0	93.9	65.7	49.3	36.4	27.0	21.1	16.4	8.2	2.3
308.8	22.5°	159.7	103.3	63.4	44.6	31.7	21.1	14.1	5.9	0.0	0.0
469.6	25°	220.7	119.7	63.4	42.3	28.2	15.3	4.7	0.0	0.0	0.0
666.8	27.5°	293.5	142.1	63.4	36.4	22.3	8.2	0.0	0.0	0.0	0.0
908.7	30°	367.5	166.7	63.4	31.7	17.6	1.2	0.0	0.0	0.0	0.0
1118.8	32.5°	437.9	187.8	64.6	27.0	11.7	0.0	0.0	0.0	0.0	0.0
1410.0	35°	509.5	191.4	63.4	23.5	7.0	0.0	0.0	0.0	0.0	0.0
1766.9	37.5°	601.1	184.3	59.9	21.1	3.5	0.0	0.0	0.0	0.0	0.0
2324.5	40°	739.6	187.8	56.4	20.0	1.2	0.0	0.0	0.0	0.0	0.0
3318.9	42.5°	995.5	203.1	51.7	20.0	0.0	0.0	0.0	0.0	0.0	0.0
5286.5	45°	1721.1	272.4	47.0	21.1	0.0	0.0	0.0	0.0	0.0	0.0
7936.2	47.5°	2846.9	489.6	45.8	21.1	0.0	0.0	0.0	0.0	0.0	0.0
9559.8	50°	3633.5	616.3	48.1	22.3	0.0	0.0	0.0	0.0	0.0	0.0
9762.9	52.5°	3627.6	686.8	50.5	23.5	4.7	0.0	0.0	0.0	0.0	0.0
8998.6	55°	3225.0	699.7	54.0	25.8	15.3	0.0	0.0	0.0	0.0	0.0
7733.1	57.5°	2695.5	638.7	62.2	31.7	28.2	0.0	0.0	0.0	0.0	0.0
7534.7	58°	2601.6	610.5	64.6	32.9	30.5	0.0	0.0	0.0	0.0	0.0
6535.6	60°	2132.0	497.8	82.2	41.1	41.1	0.0	0.0	0.0	0.0	0.0
5358.1	62.5°	1472.2	434.4	93.9	52.8	42.3	0.0	0.0	0.0	0.0	0.0
3950.5	65°	1041.3	392.1	102.1	56.4	34.0	0.0	0.0	0.0	0.0	0.0
2807.0	67.5°	778.4	361.6	112.7	57.5	17.6	0.0	0.0	0.0	0.0	0.0
1761.0	70°	596.4	339.3	138.5	61.0	4.7	0.0	0.0	0.0	0.0	0.0
1049.5	72.5°	486.0	313.5	167.9	63.4	0.0	0.0	0.0	0.0	0.0	0.0
629.3	75°	402.7	282.9	162.0	69.3	0.0	0.0	0.0	0.0	0.0	0.0
335.8	77.5°	267.7	219.5	147.9	69.3	0.0	0.0	0.0	0.0	0.0	0.0
119.7	80°	93.9	86.9	115.1	61.0	0.0	0.0	0.0	0.0	0.0	0.0
24.7	82.5°	14.1	11.7	16.4	21.1	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°
68.1	0°	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
48.1	2.5°	48.1	48.1	47.0	48.1	48.1	50.5	56.4	64.6	74.0	77.5
41.1	5°	39.9	38.7	37.6	37.6	37.6	41.1	45.8	55.2	65.7	70.4
34.0	7.5°	32.9	31.7	30.5	29.3	29.3	31.7	37.6	48.1	58.7	63.4
28.2	10°	27.0	24.7	23.5	22.3	22.3	24.7	30.5	41.1	52.8	57.5
23.5	12.5°	22.3	18.8	16.4	15.3	14.1	17.6	23.5	32.9	45.8	51.7
17.6	15°	15.3	11.7	8.2	7.0	5.9	9.4	15.3	25.8	38.7	45.8
9.4	17.5°	8.2	3.5	1.2	0.0	0.0	2.3	7.0	18.8	31.7	37.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	23.5	29.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	14.1	20.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	10.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
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	3.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	9.4
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°
68.1	0°	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
81.0	2.5°	83.4	82.2	79.8	77.5	77.5	77.5	81.0	84.5	88.0	88.0
72.8	5°	77.5	77.5	76.3	74.0	74.0	75.1	79.8	85.7	90.4	91.6
66.9	7.5°	71.6	74.0	71.6	70.4	71.6	72.8	77.5	84.5	91.6	93.9
62.2	10°	68.1	69.3	69.3	68.1	68.1	70.4	75.1	84.5	93.9	97.4
56.4	12.5°	63.4	65.7	64.6	64.6	64.6	66.9	72.8	83.4	96.3	101.0
50.5	15°	58.7	62.2	62.2	61.0	61.0	62.2	70.4	82.2	99.8	108.0
43.4	17.5°	54.0	57.5	58.7	56.4	56.4	58.7	66.9	82.2	102.1	116.2
35.2	20°	44.6	50.5	54.0	50.5	50.5	52.8	61.0	77.5	103.3	124.4
25.8	22.5°	35.2	41.1	45.8	44.6	44.6	45.8	56.4	74.0	104.5	138.5
15.3	25°	25.8	31.7	35.2	37.6	37.6	41.1	51.7	71.6	109.2	167.9
7.0	27.5°	15.3	22.3	27.0	29.3	30.5	35.2	48.1	69.3	117.4	210.1
0.0	30°	7.0	12.9	18.8	23.5	23.5	31.7	44.6	66.9	128.0	271.2
0.0	32.5°	0.0	5.9	9.4	16.4	17.6	25.8	41.1	64.6	143.2	329.9
0.0	35°	0.0	0.0	4.7	12.9	12.9	21.1	37.6	62.2	166.7	374.5
0.0	37.5°	0.0	0.0	0.0	9.4	10.6	18.8	36.4	61.0	171.4	378.0
0.0	40°	0.0	0.0	0.0	7.0	8.2	17.6	36.4	62.2	155.0	369.8
0.0	42.5°	0.0	0.0	0.0	4.7	5.9	17.6	36.4	64.6	139.7	379.2
0.0	45°	0.0	0.0	0.0	3.5	4.7	18.8	35.2	63.4	131.5	428.5
0.0	47.5°	0.0	0.0	0.0	4.7	7.0	18.8	34.0	62.2	132.7	591.7
0.0	50°	0.0	0.0	0.0	5.9	8.2	18.8	35.2	59.9	145.6	909.8
0.0	52.5°	0.0	0.0	0.0	4.7	7.0	21.1	38.7	58.7	158.5	1183.4
0.0	55°	0.0	0.0	0.0	1.2	3.5	27.0	42.3	58.7	178.4	1251.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	30.5	48.1	62.2	211.3	1224.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	30.5	49.3	62.2	213.7	1201.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	30.5	54.0	69.3	230.1	1069.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	25.8	64.6	86.9	239.5	840.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	21.1	76.3	95.1	246.5	669.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	20.0	78.7	96.3	250.1	533.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	21.1	77.5	103.3	261.8	433.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	23.5	70.4	113.9	261.8	383.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	24.7	65.7	128.0	238.3	332.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	23.5	64.6	149.1	212.5	273.5
0.0	80°	2.3	3.5	3.5	2.3	2.3	20.0	63.4	151.4	180.8	187.8
1.2	82.5°	7.0	9.4	8.2	5.9	5.9	17.6	56.4	126.8	93.9	81.0
7.0	85°	12.9	15.3	15.3	12.9	12.9	16.4	35.2	45.8	31.7	25.8
12.9	87.5°	17.6	20.0	20.0	17.6	17.6	16.4	15.3	14.1	12.9	12.9
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: SP1-2407-184-6

Test Date: 10/10/2024

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

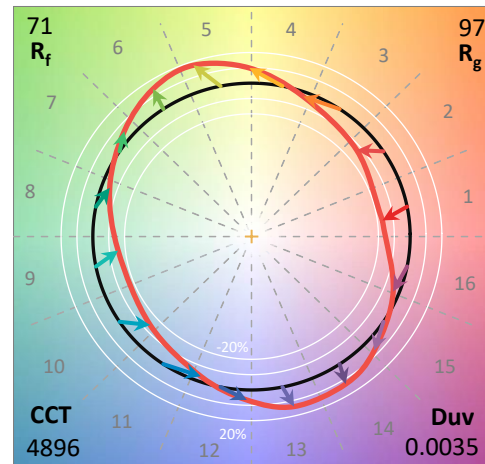
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

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

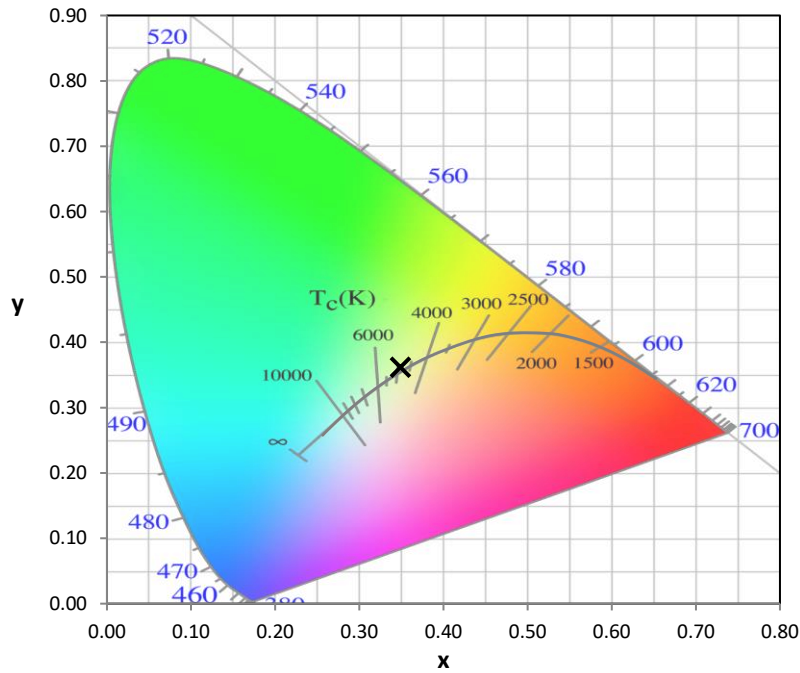
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

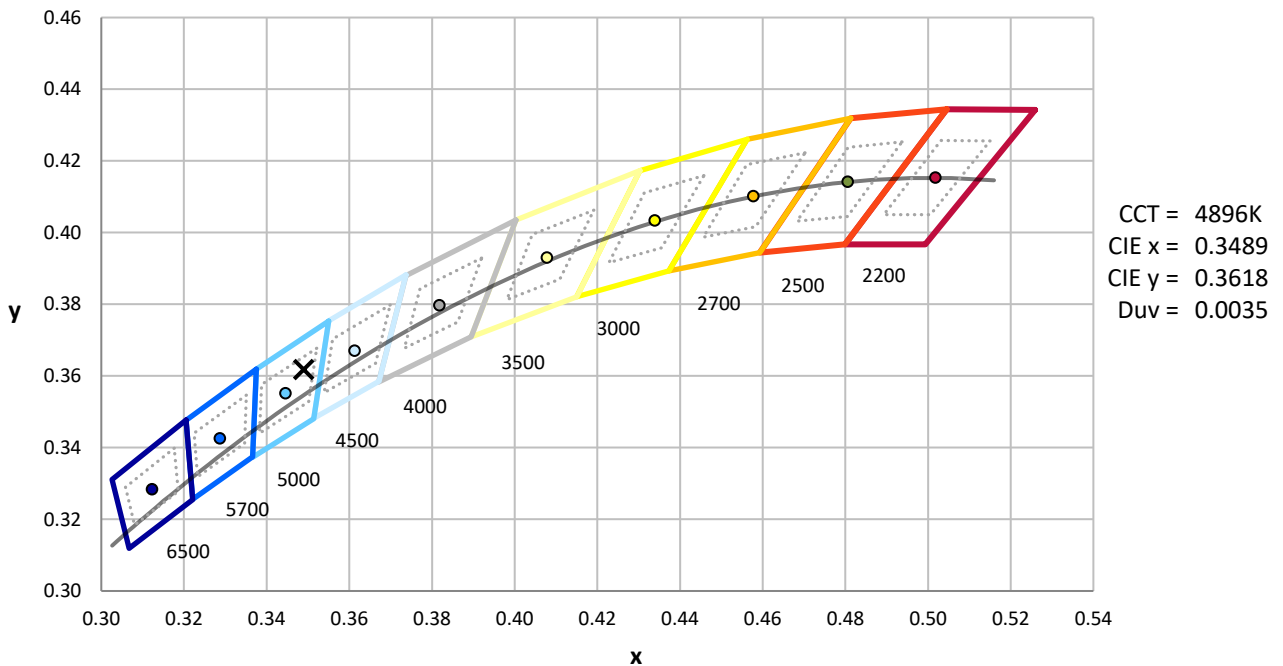
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-6

CIE 1931 Chromaticity Diagram



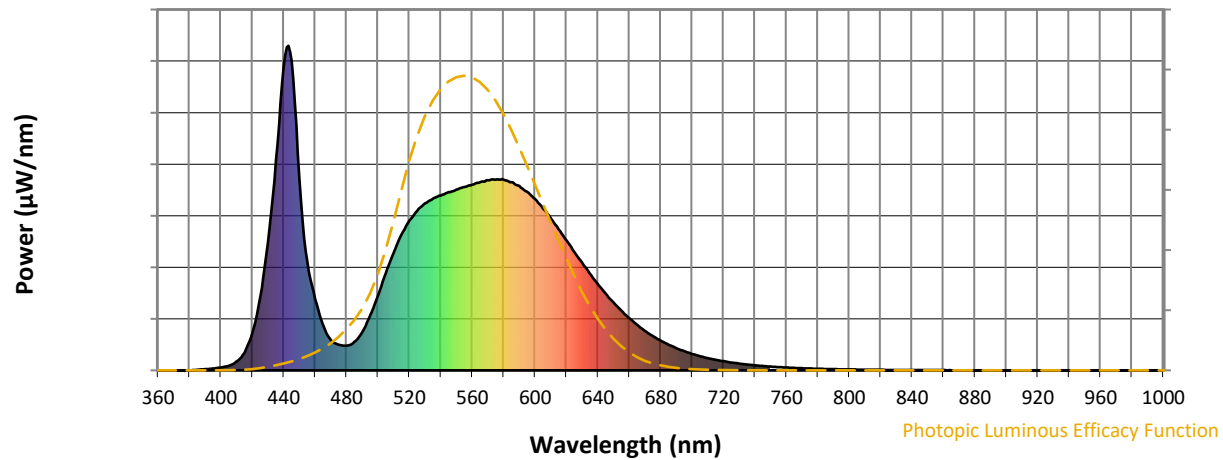
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

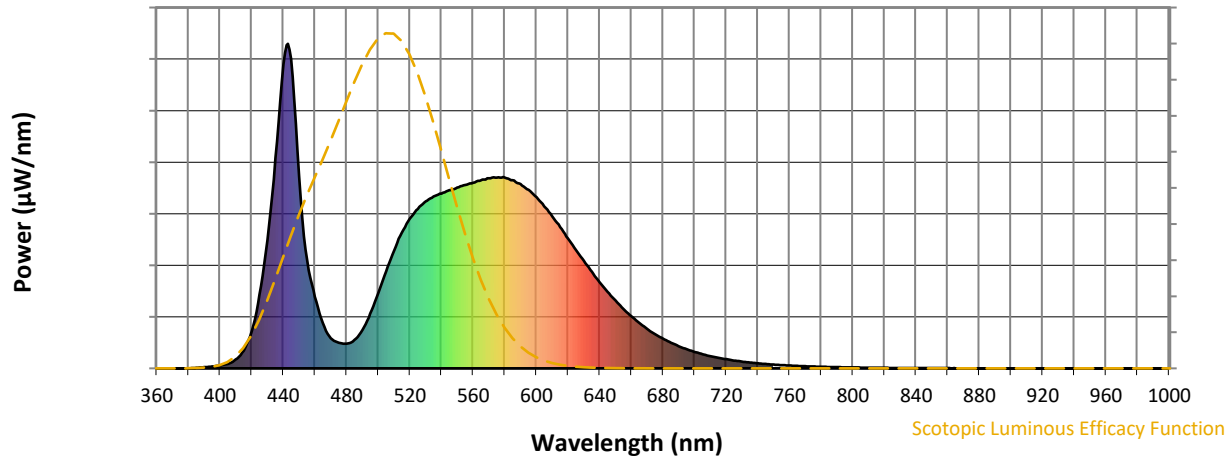


Photopic Lumens: NR

λ (nm)	Power 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	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



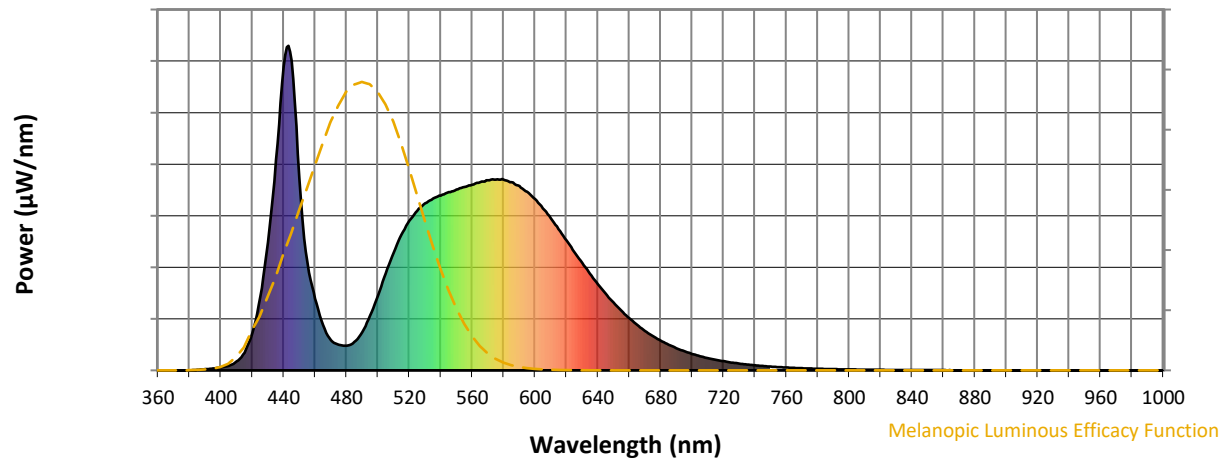
Scotopic Lumens: NR

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

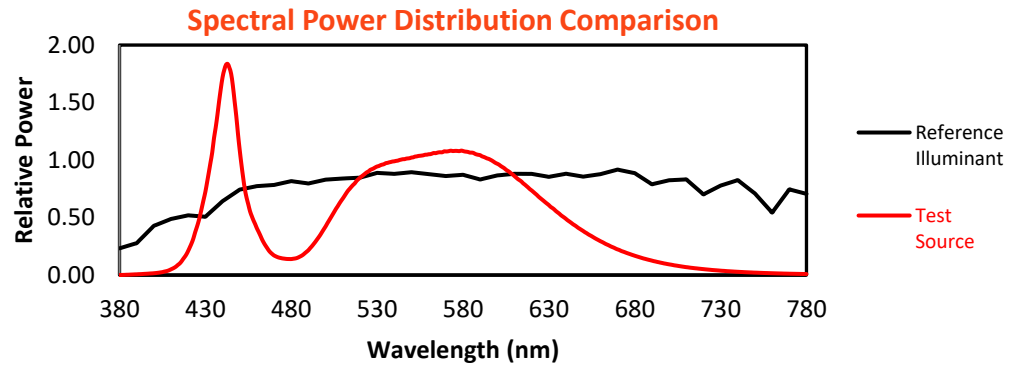
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	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

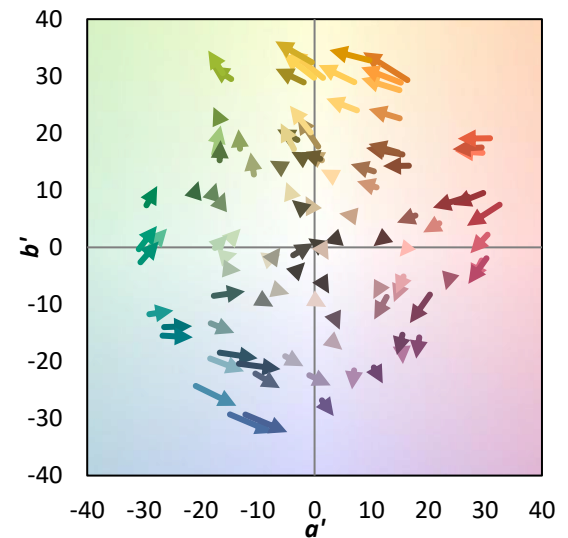
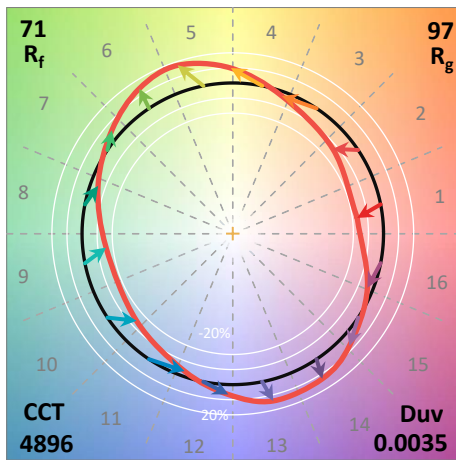
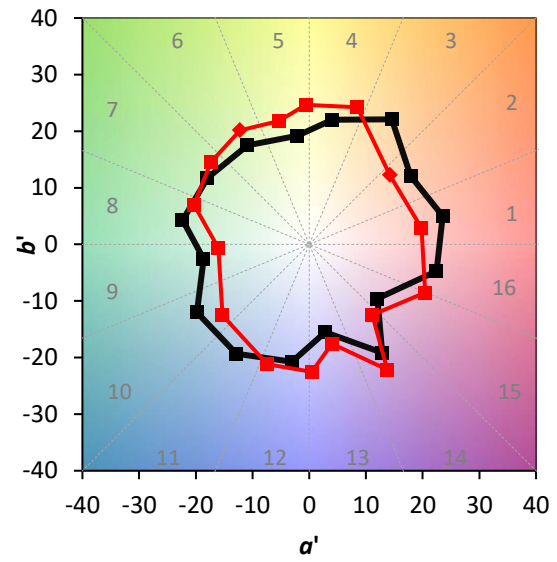
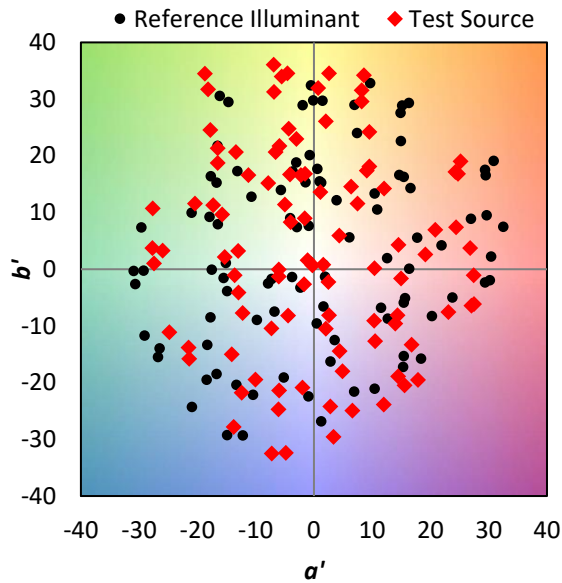
TM-30-18

Summary

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

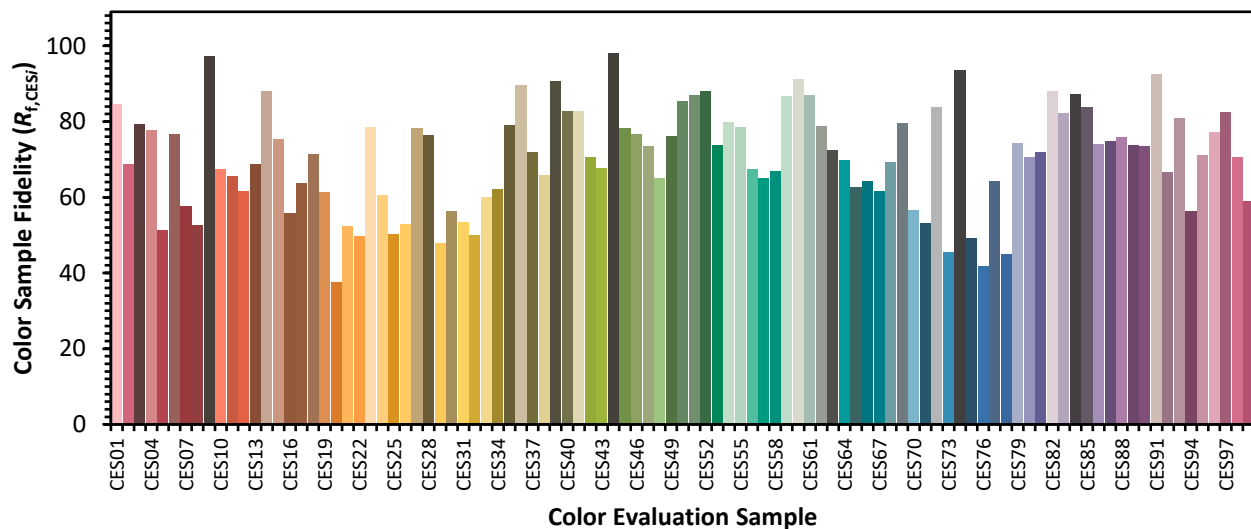


Color Vector Graphics

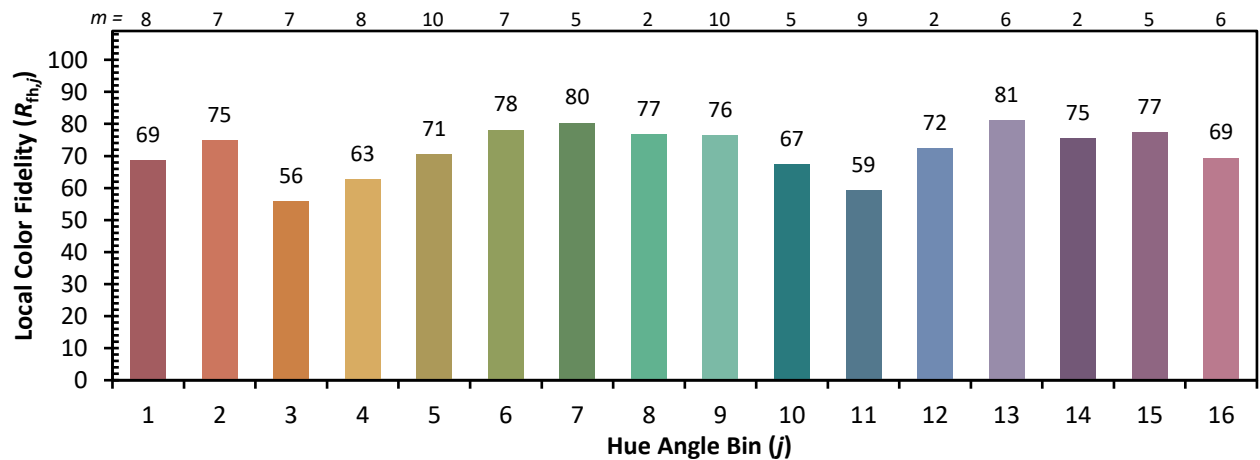
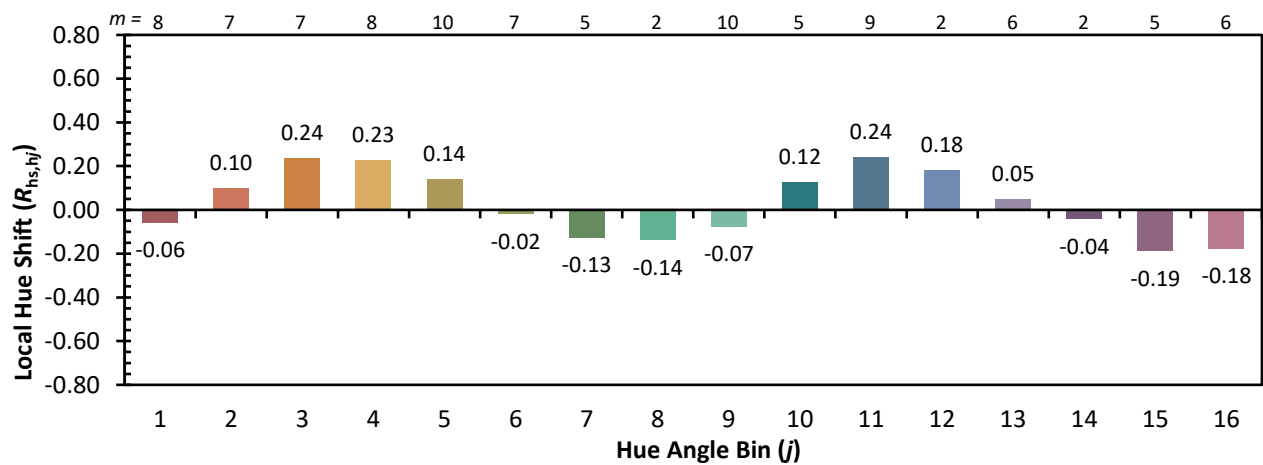
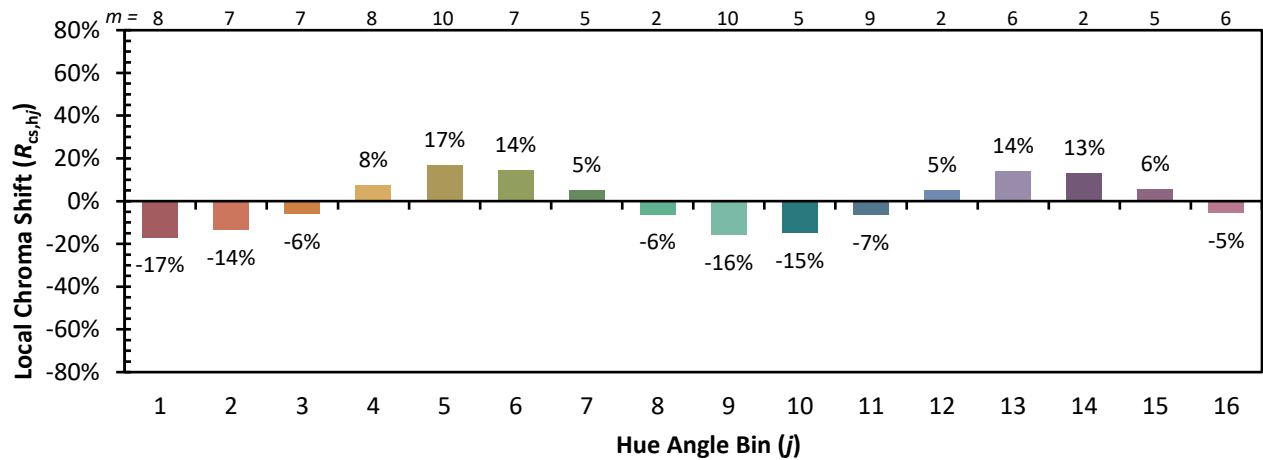


Individual Sample Fidelity Index ($R_{f,i}$)

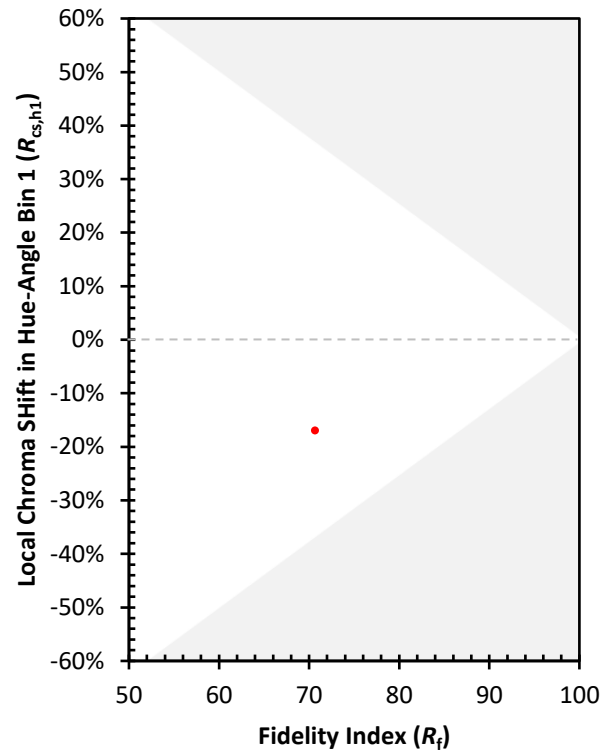
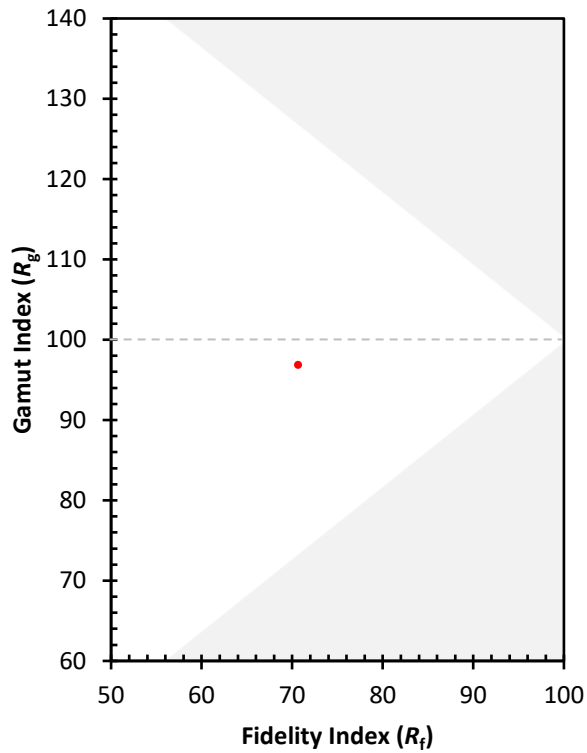
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82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