

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: P1049523

Luminaire Tested: **GALN-SA7C-722-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049523
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 7xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25792.7 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 330
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

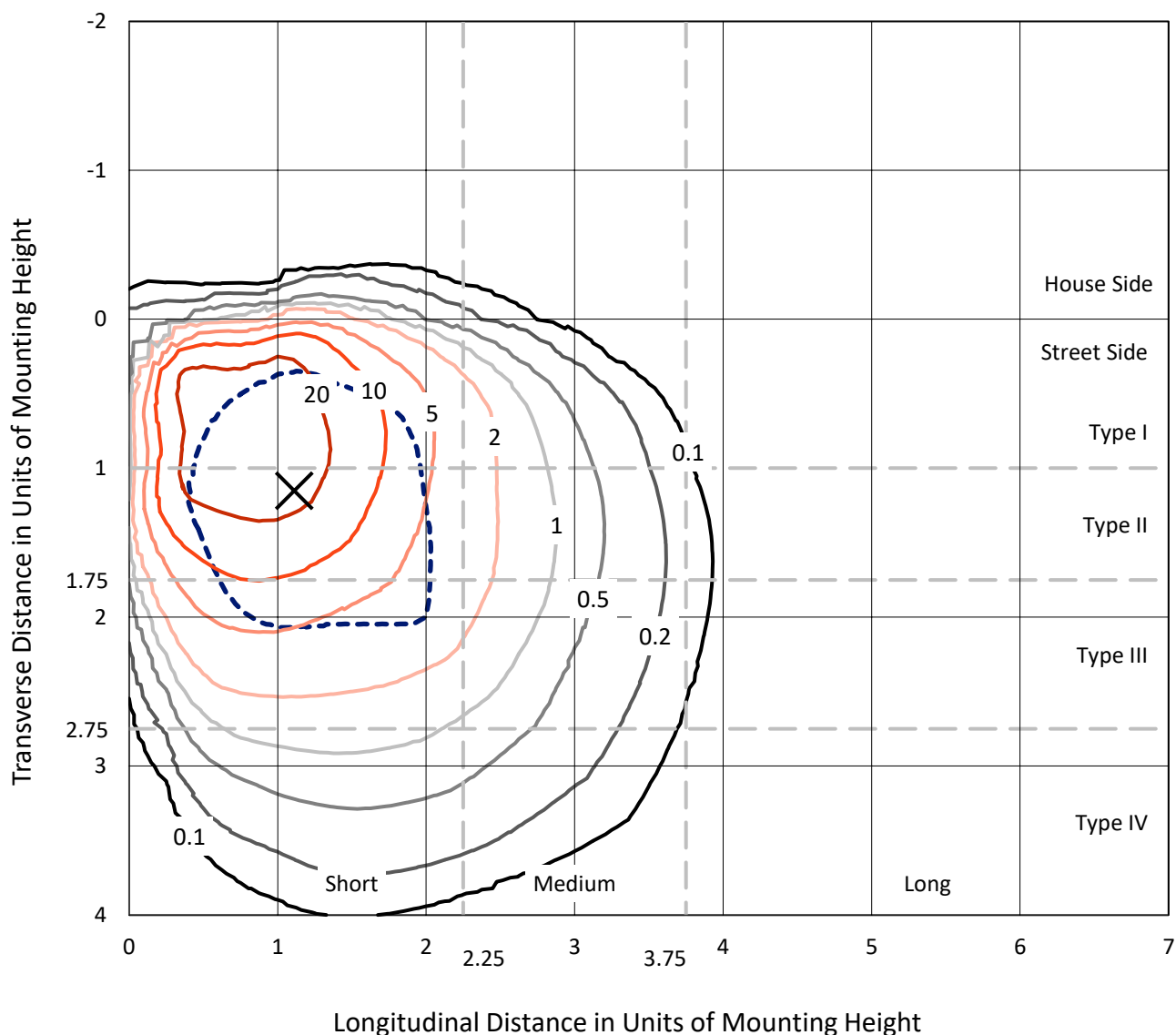
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

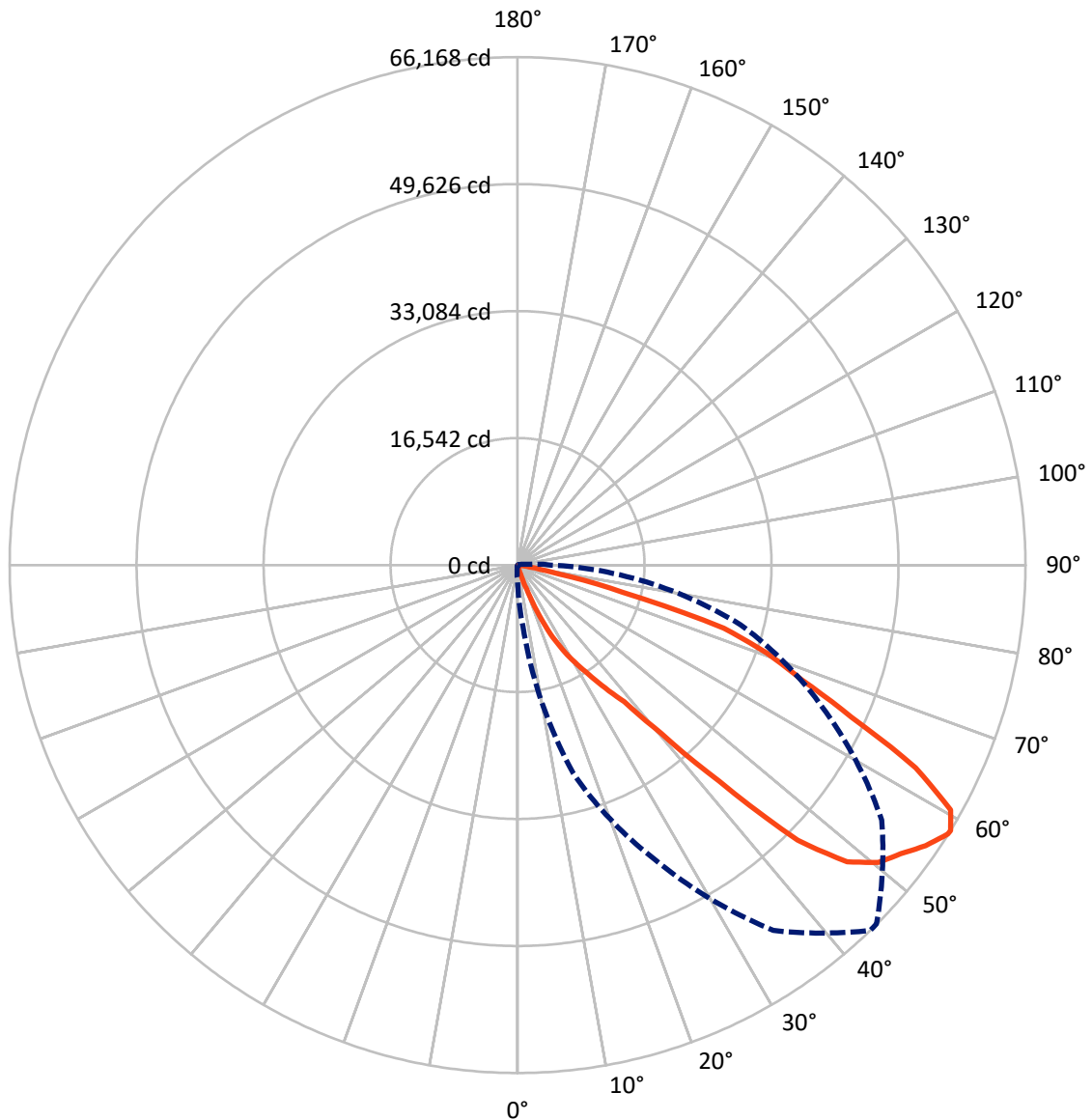


Based on 20 foot mounting height. Maximum calculated value = 44.9 fc

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	176.1	0.0	176.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	25616.6	0.0	25616.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	25792.7	0.0	25792.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.1	0.0
10°-20°	56.6	0.2
20°-30°	611.0	2.4
30°-40°	1807.0	7.0
40°-50°	5385.9	20.9
50°-60°	8546.2	33.1
60°-70°	7128.5	27.6
70°-80°	2198.6	8.5
80°-90°	48.8	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°	25792.7	100.0
0°-180°	25792.7	100.0



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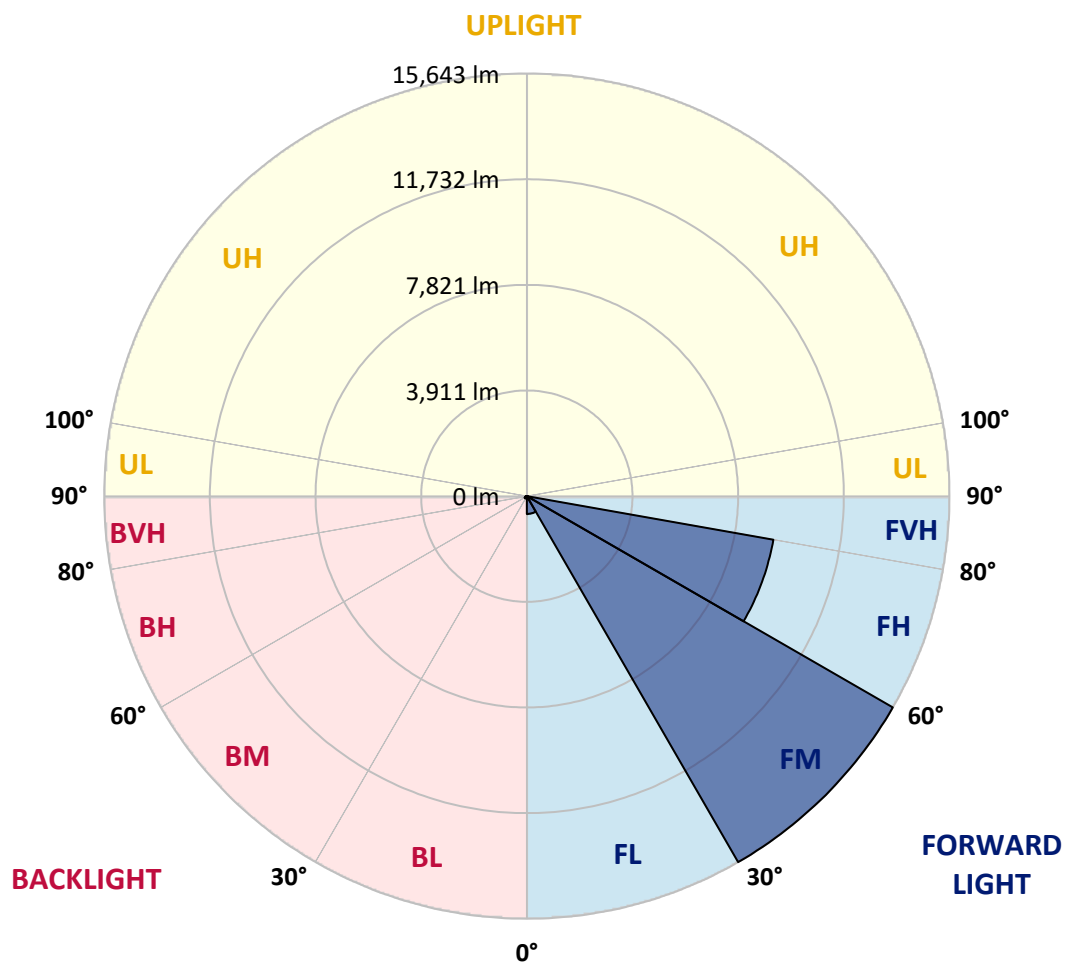
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	660.4	2.6			
FM	(30°-60°)	15642.7	60.6			
FH	(60°-80°)	9267.0	35.9			G4/12000
FVH	(80°-90°)	46.5	0.2			G1/100
BL	(0°-30°)	17.2	0.1	B0/110		
BM	(30°-60°)	96.4	0.4	B0/220		
BH	(60°-80°)	60.1	0.2	B0/110		G0/110
BVH	(80°-90°)	2.4	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
2.5°	146.1	146.1	140.3	132.5	124.7	116.9	115.0	111.1	109.1	107.2	105.2
5°	152.0	152.0	150.0	144.2	136.4	130.5	130.5	124.7	120.8	116.9	113.0
7.5°	155.9	157.8	161.7	159.8	155.9	150.0	150.0	146.1	140.3	130.5	124.7
10°	161.7	167.6	175.4	179.3	181.2	181.2	179.3	177.3	167.6	153.9	138.3
12.5°	167.6	179.3	198.7	218.2	229.9	245.5	243.6	239.7	214.3	185.1	157.8
15°	179.3	196.8	237.7	294.2	381.9	436.4	457.9	438.4	354.6	249.4	183.2
17.5°	192.9	222.1	344.9	615.7	1009.3	1196.3	1309.3	1217.8	806.6	473.5	229.9
20°	206.5	270.8	641.0	1595.8	2618.7	3230.5	3400.0	3135.0	2012.7	902.1	341.0
22.5°	229.9	379.9	1299.6	3298.7	5642.6	6560.3	6733.7	5886.2	3801.4	1780.9	512.4
25°	278.6	551.4	2240.7	5375.7	8421.1	9970.1	9898.0	8787.4	6166.8	2844.7	779.4
27.5°	348.8	802.7	3388.3	7637.8	11082.6	12448.5	12612.1	11238.5	8220.4	4183.3	1106.7
30°	450.1	1112.5	4619.7	9449.8	13216.1	14693.0	14720.3	13299.9	10057.8	5358.2	1508.1
32.5°	547.5	1404.8	5697.2	11201.5	15318.5	16937.6	17058.4	15310.7	11429.4	6581.8	1856.8
35°	621.5	1595.8	6788.3	12740.7	17438.4	19669.3	19661.5	17586.5	13054.4	7674.8	2340.1
37.5°	627.4	1786.7	7776.1	14315.1	20123.3	22621.2	22868.6	20581.2	15018.4	9027.0	2932.4
40°	613.8	2001.0	9027.0	16770.1	24961.2	28793.8	29012.0	26128.3	18958.1	11341.8	3857.9
42.5°	629.3	2373.2	11057.3	21304.0	32994.6	38498.9	38919.7	35888.0	26200.4	16064.7	5508.2
45°	711.2	3072.7	15310.7	28889.2	44445.4	51155.8	51015.5	46649.1	34627.3	23254.4	8773.7
47.5°	982.0	4785.3	21615.8	36271.8	51763.7	57739.5	57860.3	52523.6	39545.2	28782.1	13171.3
50°	1510.0	7322.2	26913.5	40174.5	54910.4	60905.7	60792.7	54625.9	41413.7	31504.0	15866.0
52.5°	1964.0	9157.6	29571.2	41544.2	55313.7	62470.3	62462.5	55179.3	41704.0	31737.8	16203.1
55°	2077.0	9295.9	29592.6	41618.3	56217.8	64518.1	64775.3	56541.2	42080.1	30716.9	14934.6
57.5°	2032.2	8230.1	28357.3	42046.9	57827.2	66102.1	66115.8	57860.3	43034.8	30091.4	12834.3
58°	1993.2	8062.6	28107.9	42290.5	58103.9	66168.4	66135.3	57920.7	43812.2	30068.0	12505.0
60°	1775.0	7000.7	27135.7	42912.0	57692.8	64808.4	64498.6	56601.6	43697.2	29828.4	10846.9
62.5°	1395.1	5461.4	26179.0	42193.1	53285.4	58224.7	58353.3	50111.4	39835.5	28431.4	8892.6
65°	1110.6	4070.3	24183.8	37010.3	43878.4	47814.3	48293.6	40749.3	33249.8	24074.7	6556.4
67.5°	884.6	2942.1	20287.0	29466.0	34720.9	39905.6	40254.4	34212.3	25760.1	18445.7	4658.7
70°	719.0	1989.3	14003.3	21549.5	28637.9	34467.6	34489.0	28421.6	19227.0	12086.1	2922.6
72.5°	637.1	1377.5	8128.8	15716.0	23221.3	28086.5	27519.5	23063.5	14776.8	7158.5	1741.9
75°	551.4	913.8	3986.5	9607.7	14079.3	14174.8	14391.0	10698.8	7386.5	3403.9	1044.4
77.5°	454.0	648.8	1570.4	2624.5	4222.2	5404.9	5605.6	4247.6	2457.0	837.8	557.2
80°	311.7	307.9	422.8	804.7	1208.0	1513.9	1412.6	1093.1	643.0	321.5	198.7
82.5°	134.4	146.1	190.9	229.9	187.0	181.2	173.4	111.1	85.7	66.2	40.9
85°	42.9	39.0	40.9	40.9	33.1	25.3	25.3	11.7	0.0	0.0	0.0
87.5°	21.4	17.5	17.5	15.6	9.7	3.9	1.9	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
2.5°	103.3	103.3	99.4	95.5	93.5	89.6	87.7	85.7	83.8	81.8	79.9
5°	109.1	107.2	101.3	95.5	89.6	83.8	79.9	76.0	72.1	70.1	68.2
7.5°	118.9	115.0	103.3	93.5	85.7	77.9	74.0	68.2	64.3	58.5	56.5
10°	130.5	122.8	107.2	95.5	83.8	74.0	68.2	62.3	56.5	48.7	46.8
12.5°	146.1	132.5	113.0	93.5	79.9	68.2	62.3	54.6	48.7	42.9	39.0
15°	159.8	142.2	115.0	93.5	76.0	62.3	54.6	46.8	40.9	33.1	29.2
17.5°	179.3	150.0	113.0	87.7	70.1	54.6	46.8	40.9	31.2	19.5	15.6
20°	212.4	155.9	109.1	81.8	60.4	44.8	35.1	27.3	13.6	3.9	0.0
22.5°	265.0	171.5	105.2	74.0	52.6	35.1	23.4	9.7	0.0	0.0	0.0
25°	366.3	198.7	105.2	70.1	46.8	25.3	7.8	0.0	0.0	0.0	0.0
27.5°	487.1	235.8	105.2	60.4	37.0	13.6	0.0	0.0	0.0	0.0	0.0
30°	609.9	276.7	105.2	52.6	29.2	1.9	0.0	0.0	0.0	0.0	0.0
32.5°	726.8	311.7	107.2	44.8	19.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	845.6	317.6	105.2	39.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	997.6	305.9	99.4	35.1	5.8	0.0	0.0	0.0	0.0	0.0	0.0
40°	1227.5	311.7	93.5	33.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1652.3	337.1	85.7	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2856.4	452.0	77.9	35.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4724.9	812.5	76.0	35.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6030.4	1022.9	79.9	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6020.6	1139.8	83.8	39.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0
55°	5352.3	1161.3	89.6	42.9	25.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4473.6	1059.9	103.3	52.6	46.8	0.0	0.0	0.0	0.0	0.0	0.0
58°	4317.7	1013.2	107.2	54.6	50.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	3538.3	826.1	136.4	68.2	68.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2443.3	720.9	155.9	87.7	70.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1728.2	650.8	169.5	93.5	56.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1291.8	600.1	187.0	95.5	29.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	989.8	563.1	229.9	101.3	7.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	806.6	520.2	278.6	105.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	668.3	469.6	268.9	115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	444.2	364.4	245.5	115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	155.9	144.2	190.9	101.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.4	19.5	27.3	35.1	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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
2.5°	79.9	79.9	77.9	79.9	79.9	83.8	93.5	107.2	122.8	128.6	134.4
5°	66.2	64.3	62.3	62.3	62.3	68.2	76.0	91.6	109.1	116.9	120.8
7.5°	54.6	52.6	50.7	48.7	48.7	52.6	62.3	79.9	97.4	105.2	111.1
10°	44.8	40.9	39.0	37.0	37.0	40.9	50.7	68.2	87.7	95.5	103.3
12.5°	37.0	31.2	27.3	25.3	23.4	29.2	39.0	54.6	76.0	85.7	93.5
15°	25.3	19.5	13.6	11.7	9.7	15.6	25.3	42.9	64.3	76.0	83.8
17.5°	13.6	5.8	1.9	0.0	0.0	3.9	11.7	31.2	52.6	62.3	72.1
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	39.0	48.7	58.5
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	23.4	33.1	42.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	17.5	25.3
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	11.7
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	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	15.6	21.4
90°	0.0	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):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
2.5°	138.3	136.4	132.5	128.6	128.6	128.6	134.4	140.3	146.1	146.1
5°	128.6	128.6	126.6	122.8	122.8	124.7	132.5	142.2	150.0	152.0
7.5°	118.9	122.8	118.9	116.9	118.9	120.8	128.6	140.3	152.0	155.9
10°	113.0	115.0	115.0	113.0	113.0	116.9	124.7	140.3	155.9	161.7
12.5°	105.2	109.1	107.2	107.2	107.2	111.1	120.8	138.3	159.8	167.6
15°	97.4	103.3	103.3	101.3	101.3	103.3	116.9	136.4	165.6	179.3
17.5°	89.6	95.5	97.4	93.5	93.5	97.4	111.1	136.4	169.5	192.9
20°	74.0	83.8	89.6	83.8	83.8	87.7	101.3	128.6	171.5	206.5
22.5°	58.5	68.2	76.0	74.0	74.0	76.0	93.5	122.8	173.4	229.9
25°	42.9	52.6	58.5	62.3	62.3	68.2	85.7	118.9	181.2	278.6
27.5°	25.3	37.0	44.8	48.7	50.7	58.5	79.9	115.0	194.8	348.8
30°	11.7	21.4	31.2	39.0	39.0	52.6	74.0	111.1	212.4	450.1
32.5°	0.0	9.7	15.6	27.3	29.2	42.9	68.2	107.2	237.7	547.5
35°	0.0	0.0	7.8	21.4	21.4	35.1	62.3	103.3	276.7	621.5
37.5°	0.0	0.0	0.0	15.6	17.5	31.2	60.4	101.3	284.5	627.4
40°	0.0	0.0	0.0	11.7	13.6	29.2	60.4	103.3	257.2	613.8
42.5°	0.0	0.0	0.0	7.8	9.7	29.2	60.4	107.2	231.9	629.3
45°	0.0	0.0	0.0	5.8	7.8	31.2	58.5	105.2	218.2	711.2
47.5°	0.0	0.0	0.0	7.8	11.7	31.2	56.5	103.3	220.2	982.0
50°	0.0	0.0	0.0	9.7	13.6	31.2	58.5	99.4	241.6	1510.0
52.5°	0.0	0.0	0.0	7.8	11.7	35.1	64.3	97.4	263.0	1964.0
55°	0.0	0.0	0.0	1.9	5.8	44.8	70.1	97.4	296.2	2077.0
57.5°	0.0	0.0	0.0	0.0	0.0	50.7	79.9	103.3	350.7	2032.2
58°	0.0	0.0	0.0	0.0	0.0	50.7	81.8	103.3	354.6	1993.2
60°	0.0	0.0	0.0	0.0	0.0	50.7	89.6	115.0	381.9	1775.0
62.5°	0.0	0.0	0.0	0.0	0.0	42.9	107.2	144.2	397.5	1395.1
65°	0.0	0.0	0.0	0.0	0.0	35.1	126.6	157.8	409.2	1110.6
67.5°	0.0	0.0	0.0	0.0	0.0	33.1	130.5	159.8	415.0	884.6
70°	0.0	0.0	0.0	0.0	0.0	35.1	128.6	171.5	434.5	719.0
72.5°	0.0	0.0	0.0	0.0	0.0	39.0	116.9	189.0	434.5	637.1
75°	0.0	0.0	0.0	0.0	0.0	40.9	109.1	212.4	395.5	551.4
77.5°	0.0	0.0	0.0	0.0	0.0	39.0	107.2	247.4	352.7	454.0
80°	3.9	5.8	5.8	3.9	3.9	33.1	105.2	251.3	300.1	311.7
82.5°	11.7	15.6	13.6	9.7	9.7	29.2	93.5	210.4	155.9	134.4
85°	21.4	25.3	25.3	21.4	21.4	27.3	58.5	76.0	52.6	42.9
87.5°	29.2	33.1	33.1	29.2	29.2	27.3	25.3	23.4	21.4	21.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

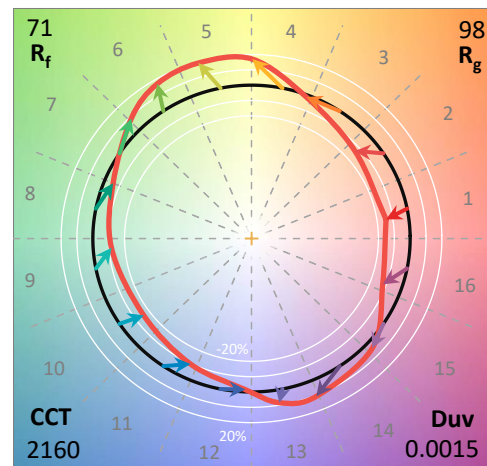
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

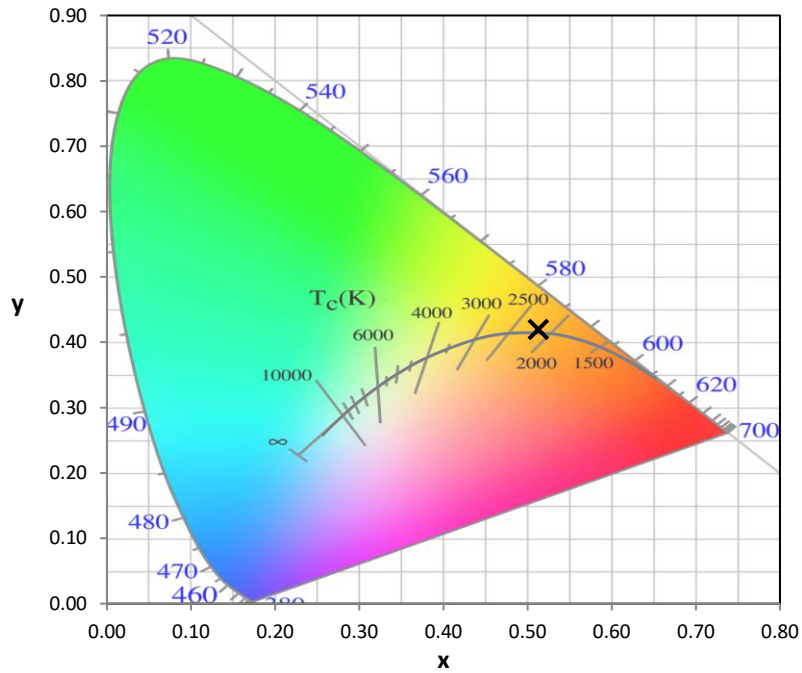
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

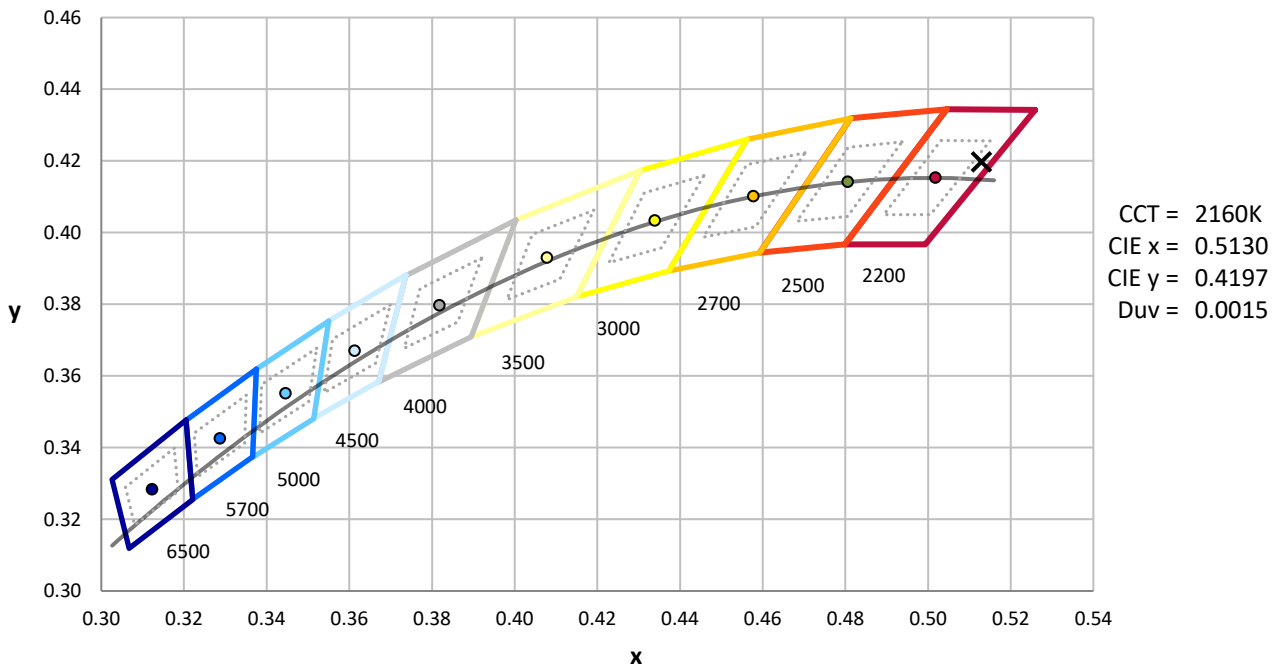
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



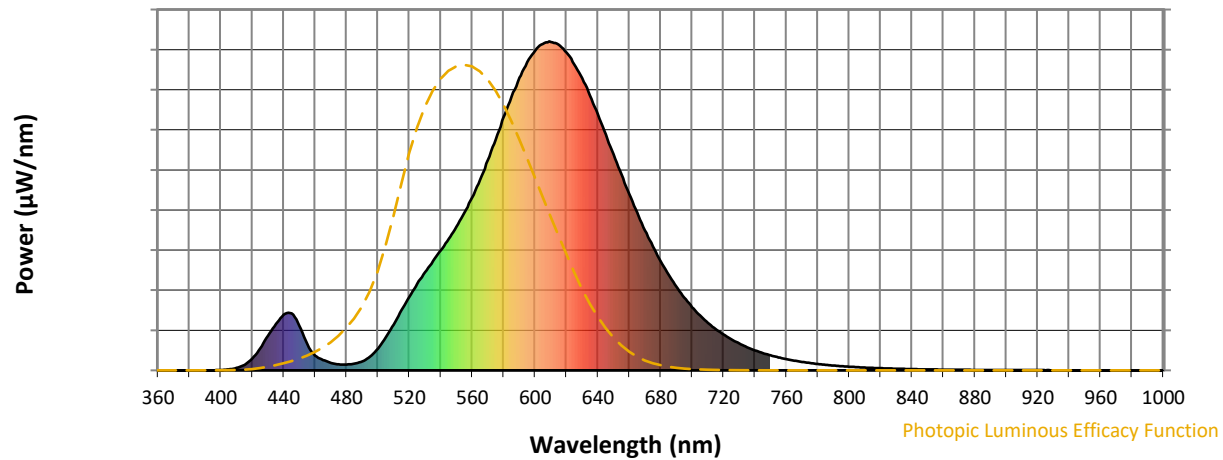
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

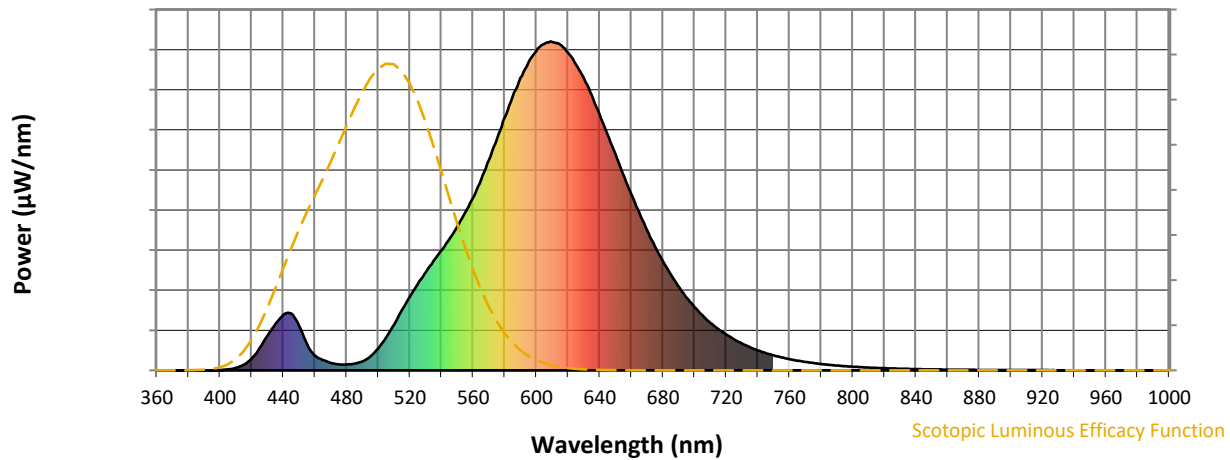


Photopic Lumens: NR

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



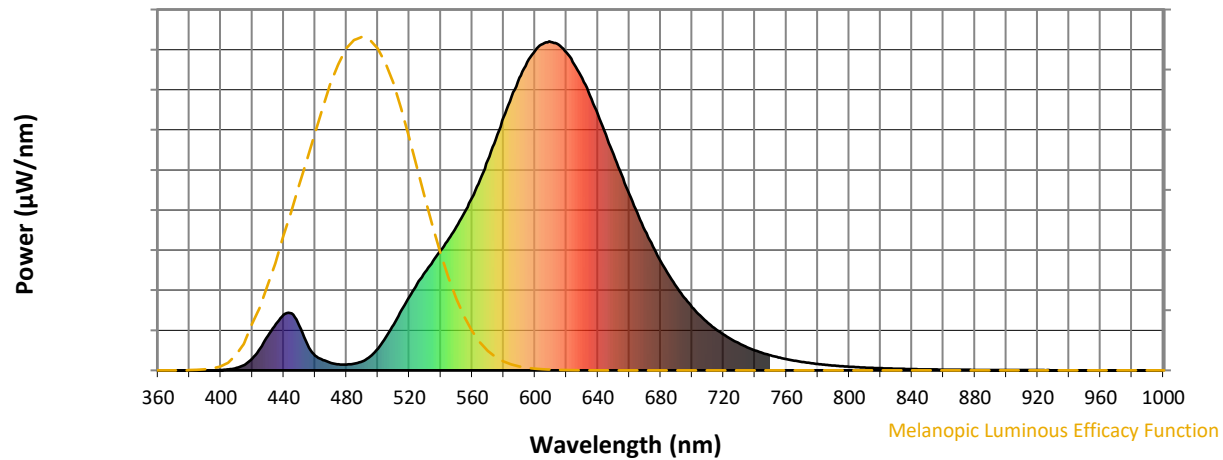
Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Melanopic Flux vs. Wavelength

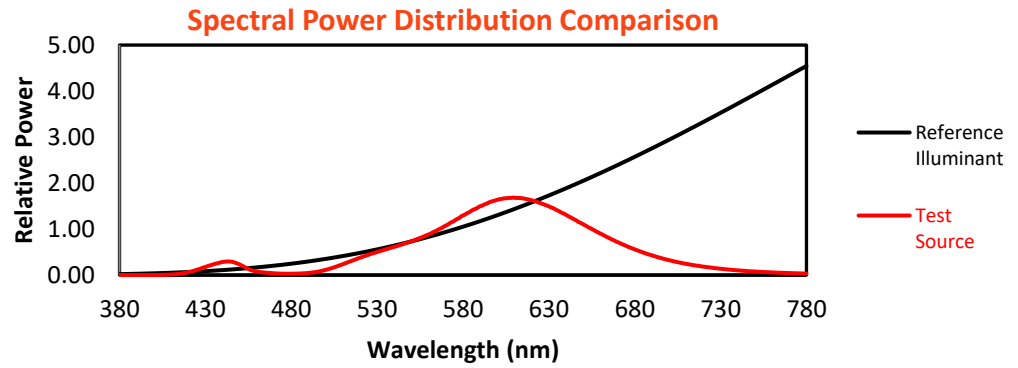
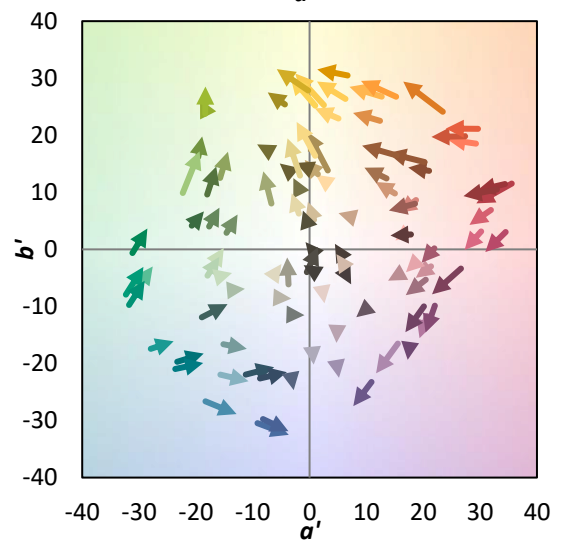
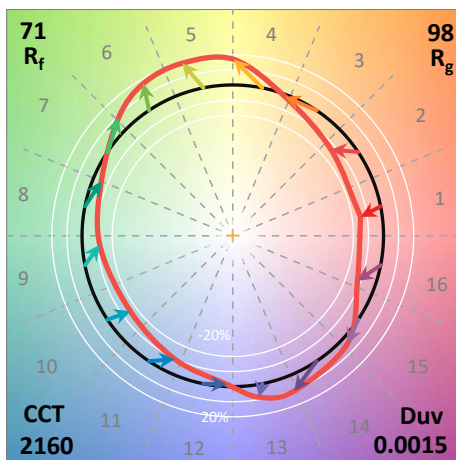
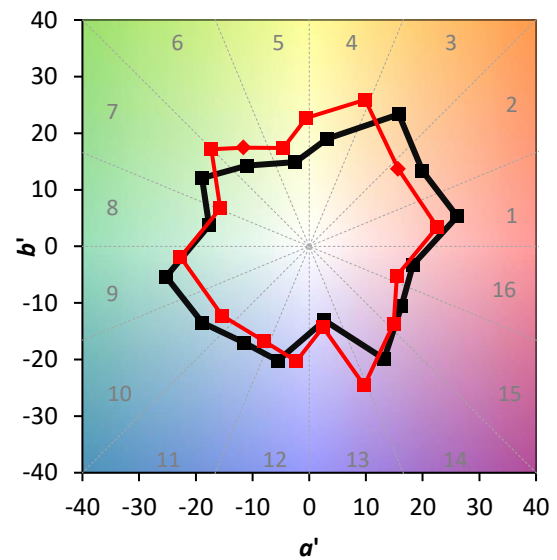
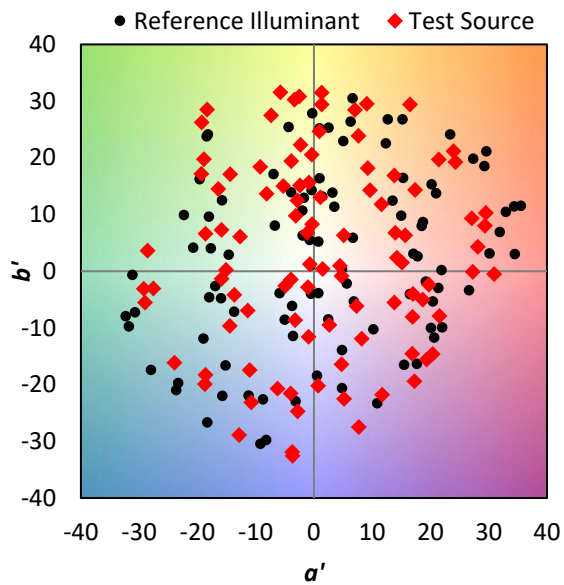


Melanopic Lumens: NR

M/P: 1.21

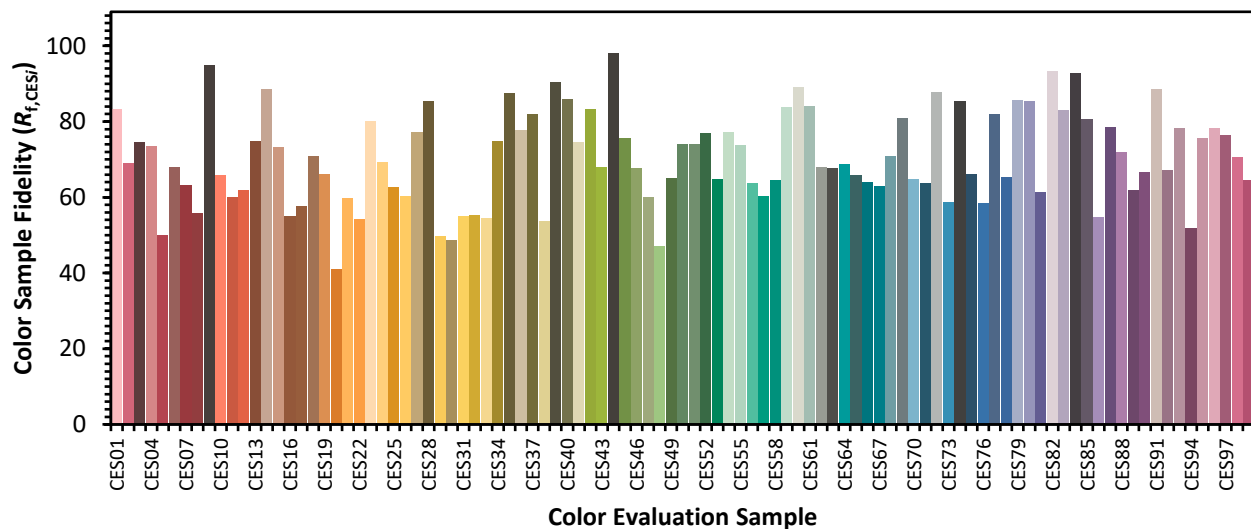
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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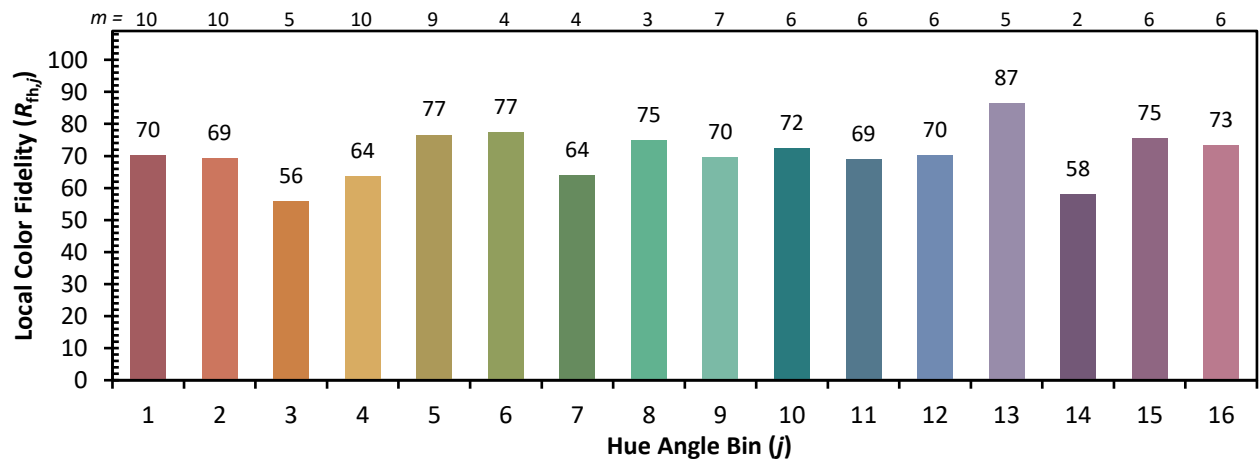
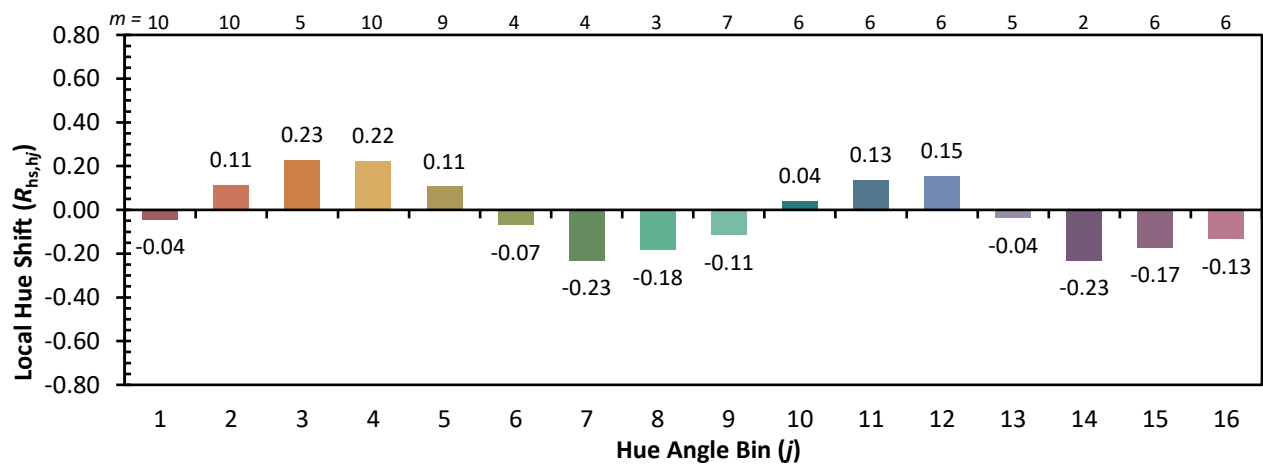
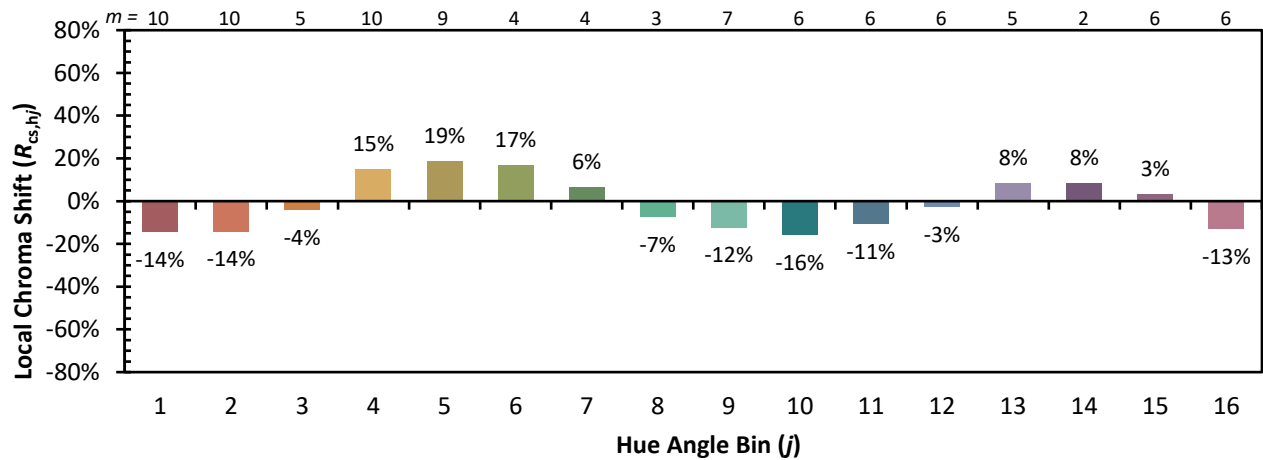
TM-30-18
Summary
 $R_f = 70.6$
 $R_g = 97.6$
 CIE $R_a = 71.9$
 $R_g = -17.8$

Color Vector Graphics


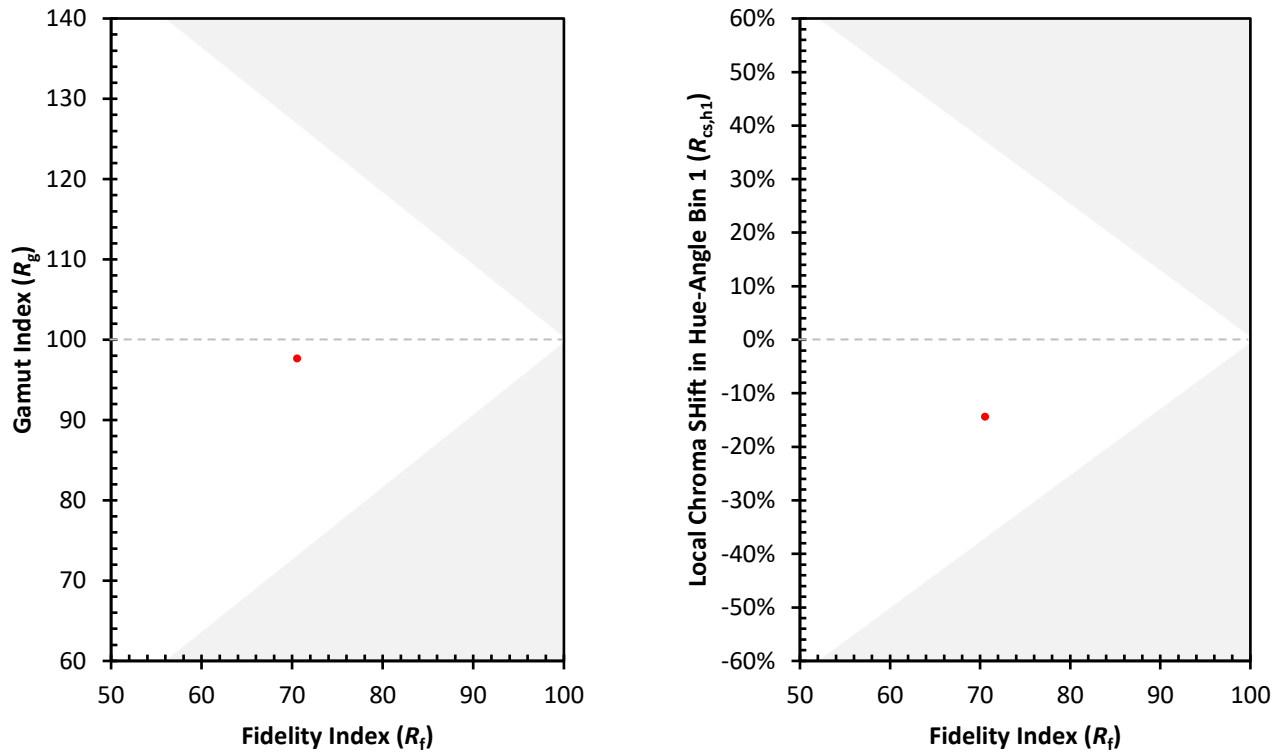
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)