

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: P1049679

Luminaire Tested: **GALN-SA1C-760-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049679
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-760-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
70CRI 5700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5213.8 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 50.2
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

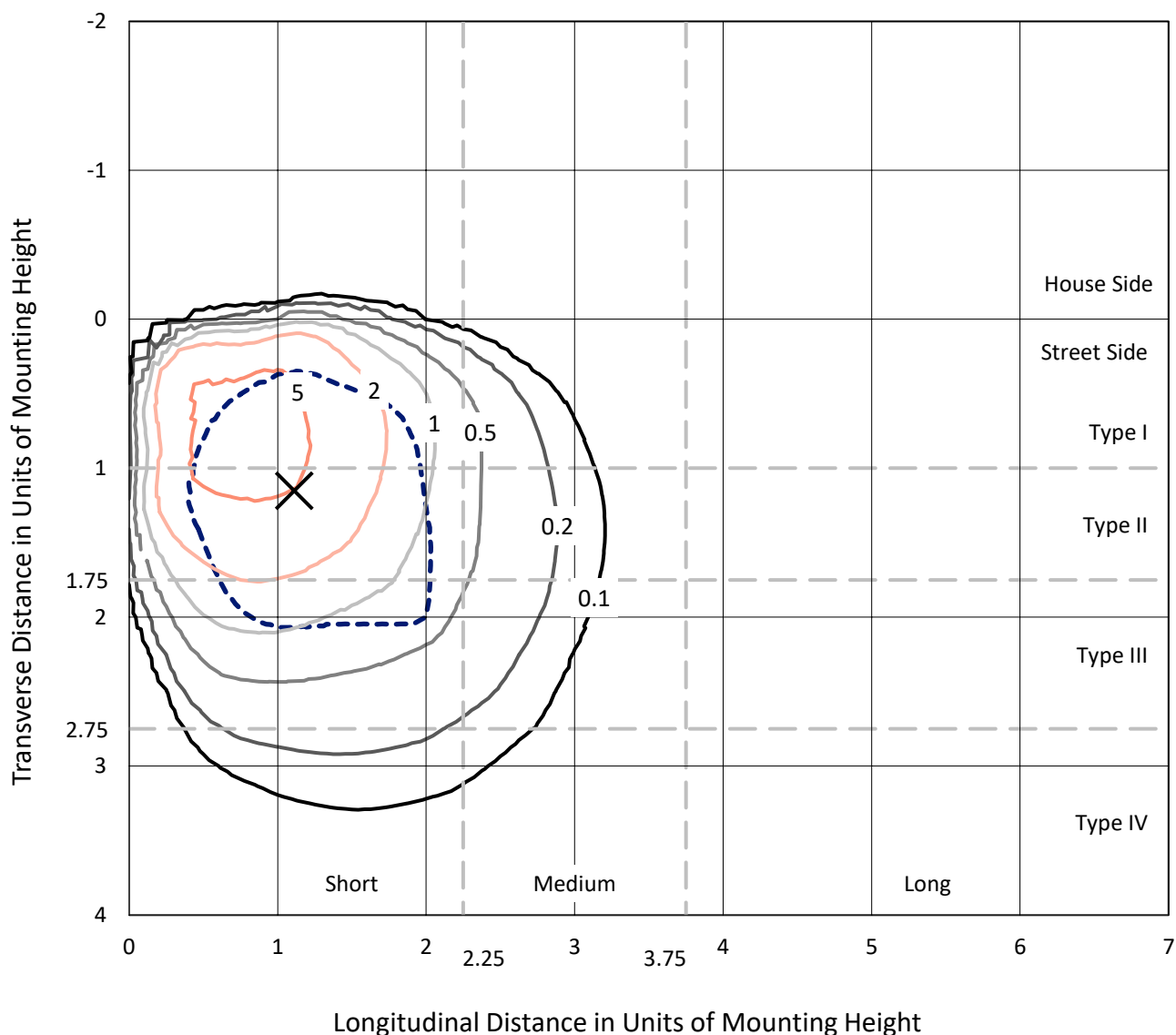
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

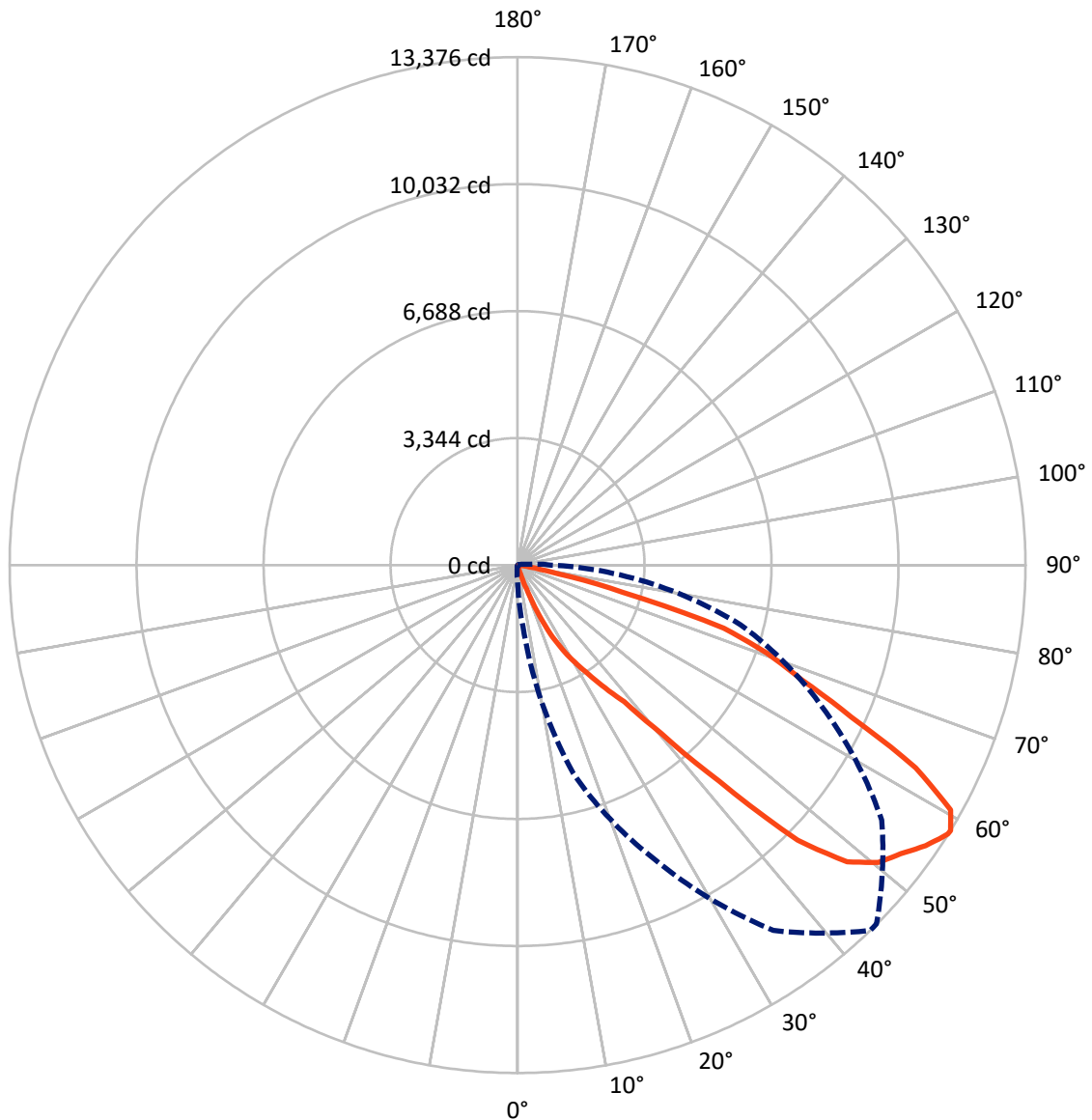


Based on 20 foot mounting height. Maximum calculated value = 9.1 fc

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	35.6	0.0	35.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	5178.2	0.0	5178.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	5213.8	0.0	5213.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.0
10°-20°	11.4	0.2
20°-30°	123.5	2.4
30°-40°	365.3	7.0
40°-50°	1088.7	20.9
50°-60°	1727.6	33.1
60°-70°	1441.0	27.6
70°-80°	444.4	8.5
80°-90°	9.9	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°	5213.8	100.0
0°-180°	5213.8	100.0



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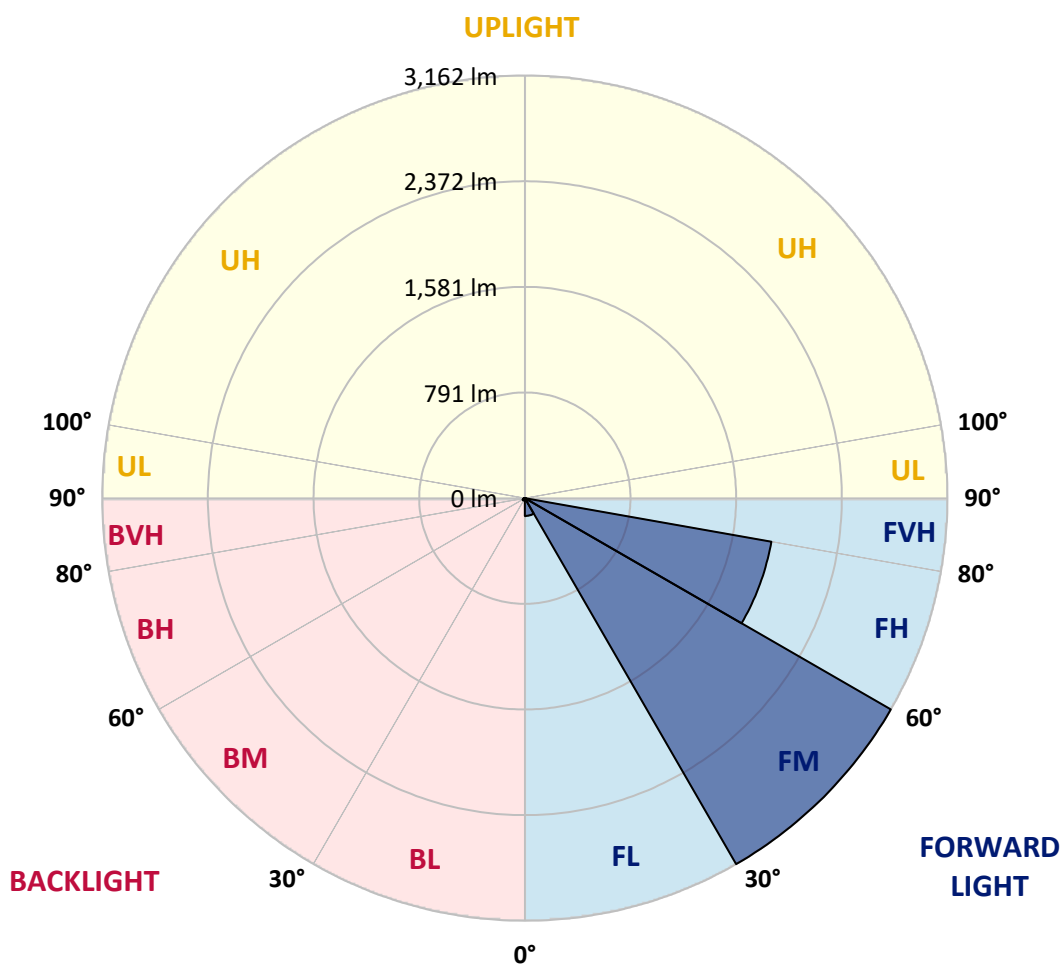
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	133.5	2.6			
FM	(30°-60°)	3162.1	60.6			
FH	(60°-80°)	1873.3	35.9			G2/5000
FVH	(80°-90°)	9.4	0.2			G0/10
BL	(0°-30°)	3.5	0.1	B0/110		
BM	(30°-60°)	19.5	0.4	B0/220		
BH	(60°-80°)	12.2	0.2	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
2.5°	29.5	29.5	28.4	26.8	25.2	23.6	23.2	22.5	22.1	21.7
5°	30.7	30.7	30.3	29.1	27.6	26.4	26.4	25.2	24.4	23.6
7.5°	31.5	31.9	32.7	32.3	31.5	30.3	30.3	29.5	28.4	26.4
10°	32.7	33.9	35.4	36.2	36.6	36.6	36.2	35.8	33.9	31.1
12.5°	33.9	36.2	40.2	44.1	46.5	49.6	49.2	48.4	43.3	37.4
15°	36.2	39.8	48.1	59.5	77.2	88.2	92.6	88.6	71.7	50.4
17.5°	39.0	44.9	69.7	124.5	204.0	241.8	264.7	246.2	163.1	95.7
20°	41.7	54.7	129.6	322.6	529.4	653.0	687.3	633.7	406.9	182.4
22.5°	46.5	76.8	262.7	666.8	1140.6	1326.1	1361.2	1189.9	768.4	360.0
25°	56.3	111.5	452.9	1086.7	1702.3	2015.4	2000.8	1776.3	1246.6	575.0
27.5°	70.5	162.3	684.9	1543.9	2240.3	2516.4	2549.5	2271.8	1661.7	845.6
30°	91.0	224.9	933.8	1910.2	2671.6	2970.1	2975.6	2688.5	2033.1	1083.1
32.5°	110.7	284.0	1151.7	2264.3	3096.5	3423.8	3448.3	3095.0	2310.4	1330.5
35°	125.6	322.6	1372.2	2575.5	3525.1	3976.0	3974.5	3555.0	2638.9	1551.4
37.5°	126.8	361.2	1571.9	2893.7	4067.8	4572.7	4622.8	4160.4	3035.9	1824.8
40°	124.1	404.5	1824.8	3390.0	5045.8	5820.5	5864.6	5281.7	3832.3	2292.7
42.5°	127.2	479.7	2235.2	4306.5	6669.7	7782.3	7867.4	7254.5	5296.3	3247.4
45°	143.8	621.1	3095.0	5839.8	8984.4	10340.8	10312.5	9429.8	6999.7	4700.7
47.5°	198.5	967.3	4369.5	7332.1	10463.7	11671.7	11696.1	10617.3	7993.8	5818.1
50°	305.2	1480.1	5440.4	8121.0	11099.8	12311.7	12288.9	11042.3	8371.5	6368.3
52.5°	397.0	1851.1	5977.6	8397.9	11181.3	12628.0	12626.4	11154.2	8430.2	6415.6
55°	419.9	1879.1	5982.0	8412.9	11364.1	13041.9	13093.9	11429.5	8506.2	6209.2
57.5°	410.8	1663.7	5732.3	8499.5	11689.4	13362.2	13364.9	11696.1	8699.2	6082.8
58°	402.9	1629.8	5681.8	8548.8	11745.3	13375.5	13368.8	11708.3	8856.4	6078.1
60°	358.8	1415.1	5485.3	8674.4	11662.2	13100.6	13038.0	11441.7	8833.1	6029.6
62.5°	282.0	1104.0	5291.9	8529.1	10771.3	11769.8	11795.8	10129.7	8052.5	5747.2
65°	224.5	822.8	4888.6	7481.4	8869.8	9665.4	9762.3	8237.2	6721.2	4866.6
67.5°	178.8	594.7	4100.9	5956.4	7018.6	8066.7	8137.2	6915.8	5207.2	3728.7
70°	145.3	402.1	2830.7	4356.1	5789.0	6967.4	6971.7	5745.3	3886.6	2443.1
72.5°	128.8	278.5	1643.2	3176.9	4694.0	5677.5	5562.9	4662.1	2987.0	1447.0
75°	111.5	184.7	805.8	1942.1	2846.0	2865.3	2909.1	2162.7	1493.1	688.1
77.5°	91.8	131.2	317.5	530.5	853.5	1092.6	1133.1	858.6	496.7	169.4
80°	63.0	62.2	85.5	162.7	244.2	306.0	285.5	221.0	130.0	65.0
82.5°	27.2	29.5	38.6	46.5	37.8	36.6	35.1	22.5	17.3	13.4
85°	8.7	7.9	8.3	8.3	6.7	5.1	5.1	2.4	0.0	0.0
87.5°	4.3	3.5	3.5	3.2	2.0	0.8	0.4	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°
22.8	0°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
21.3	2.5°	20.9	20.9	20.1	19.3	18.9	18.1	17.7	17.3	16.9	16.5
22.8	5°	22.1	21.7	20.5	19.3	18.1	16.9	16.1	15.4	14.6	14.2
25.2	7.5°	24.0	23.2	20.9	18.9	17.3	15.8	15.0	13.8	13.0	11.8
28.0	10°	26.4	24.8	21.7	19.3	16.9	15.0	13.8	12.6	11.4	9.8
31.9	12.5°	29.5	26.8	22.8	18.9	16.1	13.8	12.6	11.0	9.8	8.7
37.0	15°	32.3	28.8	23.2	18.9	15.4	12.6	11.0	9.5	8.3	6.7
46.5	17.5°	36.2	30.3	22.8	17.7	14.2	11.0	9.5	8.3	6.3	3.9
68.9	20°	42.9	31.5	22.1	16.5	12.2	9.1	7.1	5.5	2.8	0.8
103.6	22.5°	53.6	34.7	21.3	15.0	10.6	7.1	4.7	2.0	0.0	0.0
157.5	25°	74.0	40.2	21.3	14.2	9.5	5.1	1.6	0.0	0.0	0.0
223.7	27.5°	98.5	47.7	21.3	12.2	7.5	2.8	0.0	0.0	0.0	0.0
304.8	30°	123.3	55.9	21.3	10.6	5.9	0.4	0.0	0.0	0.0	0.0
375.4	32.5°	146.9	63.0	21.7	9.1	3.9	0.0	0.0	0.0	0.0	0.0
473.0	35°	170.9	64.2	21.3	7.9	2.4	0.0	0.0	0.0	0.0	0.0
592.8	37.5°	201.7	61.8	20.1	7.1	1.2	0.0	0.0	0.0	0.0	0.0
779.8	40°	248.1	63.0	18.9	6.7	0.4	0.0	0.0	0.0	0.0	0.0
1113.4	42.5°	334.0	68.1	17.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0
1773.6	45°	577.4	91.4	15.8	7.1	0.0	0.0	0.0	0.0	0.0	0.0
2662.5	47.5°	955.1	164.2	15.4	7.1	0.0	0.0	0.0	0.0	0.0	0.0
3207.2	50°	1219.0	206.8	16.1	7.5	0.0	0.0	0.0	0.0	0.0	0.0
3275.4	52.5°	1217.0	230.4	16.9	7.9	1.6	0.0	0.0	0.0	0.0	0.0
3018.9	55°	1081.9	234.7	18.1	8.7	5.1	0.0	0.0	0.0	0.0	0.0
2594.4	57.5°	904.3	214.3	20.9	10.6	9.5	0.0	0.0	0.0	0.0	0.0
2527.8	58°	872.8	204.8	21.7	11.0	10.2	0.0	0.0	0.0	0.0	0.0
2192.6	60°	715.3	167.0	27.6	13.8	13.8	0.0	0.0	0.0	0.0	0.0
1797.6	62.5°	493.9	145.7	31.5	17.7	14.2	0.0	0.0	0.0	0.0	0.0
1325.3	65°	349.4	131.5	34.3	18.9	11.4	0.0	0.0	0.0	0.0	0.0
941.7	67.5°	261.1	121.3	37.8	19.3	5.9	0.0	0.0	0.0	0.0	0.0
590.8	70°	200.1	113.8	46.5	20.5	1.6	0.0	0.0	0.0	0.0	0.0
352.1	72.5°	163.1	105.2	56.3	21.3	0.0	0.0	0.0	0.0	0.0	0.0
211.1	75°	135.1	94.9	54.4	23.2	0.0	0.0	0.0	0.0	0.0	0.0
112.6	77.5°	89.8	73.7	49.6	23.2	0.0	0.0	0.0	0.0	0.0	0.0
40.2	80°	31.5	29.1	38.6	20.5	0.0	0.0	0.0	0.0	0.0	0.0
8.3	82.5°	4.7	3.9	5.5	7.1	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°
22.8	0°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
16.1	2.5°	16.1	16.1	15.8	16.1	16.1	16.9	18.9	21.7	24.8	26.0
13.8	5°	13.4	13.0	12.6	12.6	12.6	13.8	15.4	18.5	22.1	23.6
11.4	7.5°	11.0	10.6	10.2	9.8	9.8	10.6	12.6	16.1	19.7	21.3
9.5	10°	9.1	8.3	7.9	7.5	7.5	8.3	10.2	13.8	17.7	19.3
7.9	12.5°	7.5	6.3	5.5	5.1	4.7	5.9	7.9	11.0	15.4	17.3
5.9	15°	5.1	3.9	2.8	2.4	2.0	3.2	5.1	8.7	13.0	15.4
3.2	17.5°	2.8	1.2	0.4	0.0	0.0	0.8	2.4	6.3	10.6	12.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	7.9	9.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.7	6.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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	1.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2
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°
22.8	0°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
27.2	2.5°	28.0	27.6	26.8	26.0	26.0	26.0	27.2	28.4	29.5	29.5
24.4	5°	26.0	26.0	25.6	24.8	24.8	25.2	26.8	28.8	30.3	30.7
22.5	7.5°	24.0	24.8	24.0	23.6	24.0	24.4	26.0	28.4	30.7	31.5
20.9	10°	22.8	23.2	23.2	22.8	22.8	23.6	25.2	28.4	31.5	32.7
18.9	12.5°	21.3	22.1	21.7	21.7	21.7	22.5	24.4	28.0	32.3	33.9
16.9	15°	19.7	20.9	20.9	20.5	20.5	20.9	23.6	27.6	33.5	36.2
14.6	17.5°	18.1	19.3	19.7	18.9	18.9	19.7	22.5	27.6	34.3	39.0
11.8	20°	15.0	16.9	18.1	16.9	16.9	17.7	20.5	26.0	34.7	41.7
8.7	22.5°	11.8	13.8	15.4	15.0	15.0	15.4	18.9	24.8	35.1	46.5
5.1	25°	8.7	10.6	11.8	12.6	12.6	13.8	17.3	24.0	36.6	56.3
2.4	27.5°	5.1	7.5	9.1	9.8	10.2	11.8	16.1	23.2	39.4	70.5
0.0	30°	2.4	4.3	6.3	7.9	7.9	10.6	15.0	22.5	42.9	91.0
0.0	32.5°	0.0	2.0	3.2	5.5	5.9	8.7	13.8	21.7	48.1	110.7
0.0	35°	0.0	0.0	1.6	4.3	4.3	7.1	12.6	20.9	55.9	125.6
0.0	37.5°	0.0	0.0	0.0	3.2	3.5	6.3	12.2	20.5	57.5	126.8
0.0	40°	0.0	0.0	0.0	2.4	2.8	5.9	12.2	20.9	52.0	124.1
0.0	42.5°	0.0	0.0	0.0	1.6	2.0	5.9	12.2	21.7	46.9	127.2
0.0	45°	0.0	0.0	0.0	1.2	1.6	6.3	11.8	21.3	44.1	143.8
0.0	47.5°	0.0	0.0	0.0	1.6	2.4	6.3	11.4	20.9	44.5	198.5
0.0	50°	0.0	0.0	0.0	2.0	2.8	6.3	11.8	20.1	48.8	305.2
0.0	52.5°	0.0	0.0	0.0	1.6	2.4	7.1	13.0	19.7	53.2	397.0
0.0	55°	0.0	0.0	0.0	0.4	1.2	9.1	14.2	19.7	59.9	419.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	10.2	16.1	20.9	70.9	410.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	10.2	16.5	20.9	71.7	402.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	10.2	18.1	23.2	77.2	358.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	8.7	21.7	29.1	80.3	282.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	7.1	25.6	31.9	82.7	224.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	6.7	26.4	32.3	83.9	178.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	7.1	26.0	34.7	87.8	145.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	7.9	23.6	38.2	87.8	128.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	8.3	22.1	42.9	80.0	111.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	7.9	21.7	50.0	71.3	91.8
0.0	80°	0.8	1.2	1.2	0.8	0.8	6.7	21.3	50.8	60.7	63.0
0.4	82.5°	2.4	3.2	2.8	2.0	2.0	5.9	18.9	42.5	31.5	27.2
2.4	85°	4.3	5.1	5.1	4.3	4.3	5.5	11.8	15.4	10.6	8.7
4.3	87.5°	5.9	6.7	6.7	5.9	5.9	5.5	5.1	4.7	4.3	4.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-7

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-757-U-5WQ

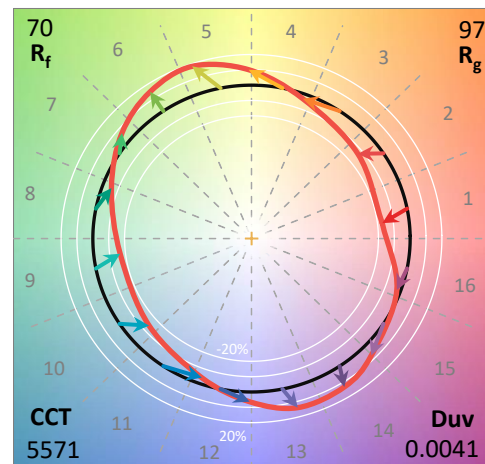
Data in this report applies to families of products including GSS-SB1A-757-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-7
 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-757-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5700K CCT 26 LEDS

Spectral Parameters

CCT (K):	5571	CRI (Ra):	69.9		
CIE u':	0.2033	R1:	68.8	R9:	-35.4
CIE v':	0.4806	R2:	72.5	R10:	36.7
Duv:	0.0041	R3:	76.8	R11:	73.9
CIE x:	0.3308	R4:	72.0	R12:	47.8
CIE y:	0.3476	R5:	70.9	R13:	68.0
CIE z:	0.3216	R6:	65.6	R14:	87.0
Peak Wavelength (nm):	442	R7:	75.5	R15:	59.8
Dominant Wavelength (nm):	544	R8:	56.8		
Purity:	3.635698				
Rf:	70.4				
Rg:	97.1				



Test Conditions

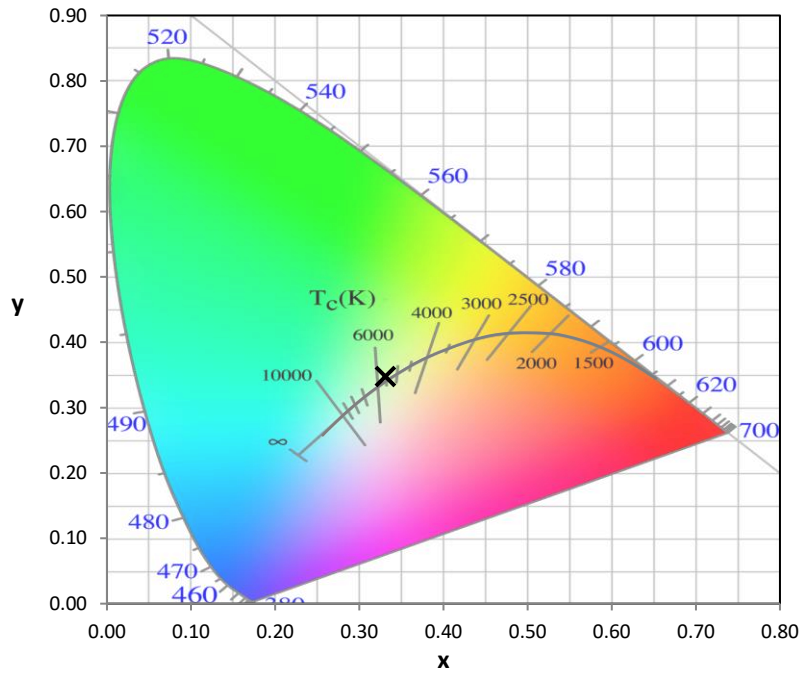
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-7

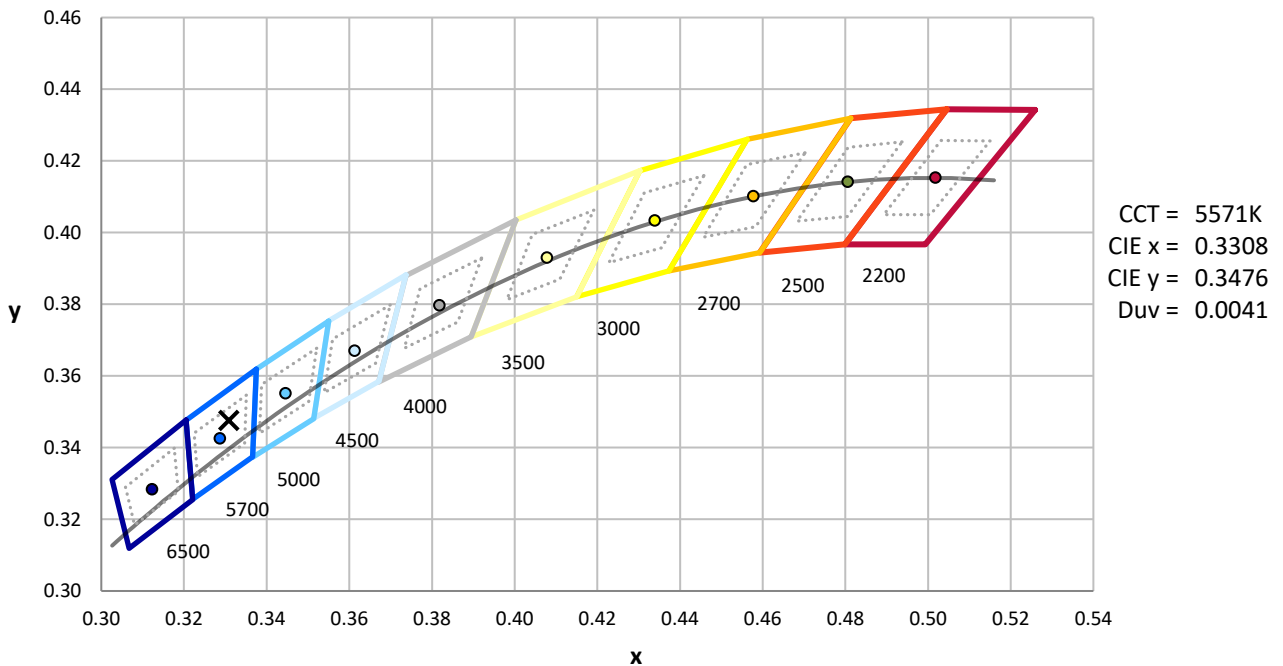
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-7

CIE 1931 Chromaticity Diagram



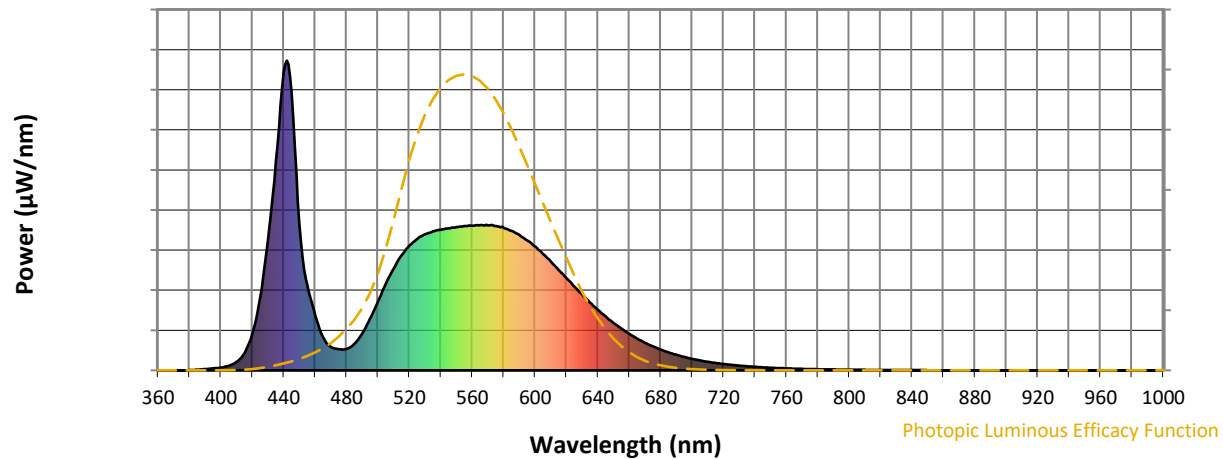
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-7

Photopic Flux vs. Wavelength

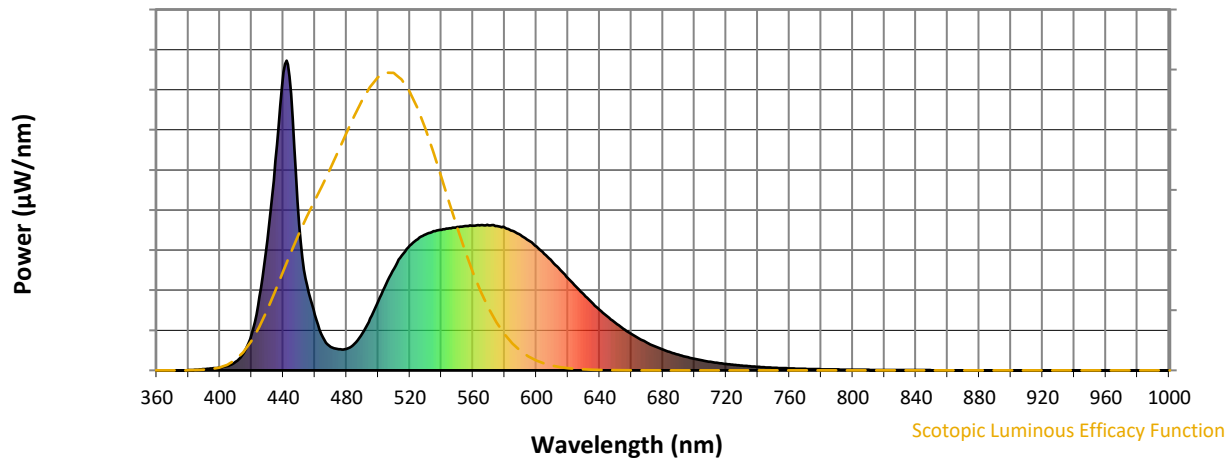


Photopic Lumens: NR

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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-7

Scotopic Flux vs. Wavelength



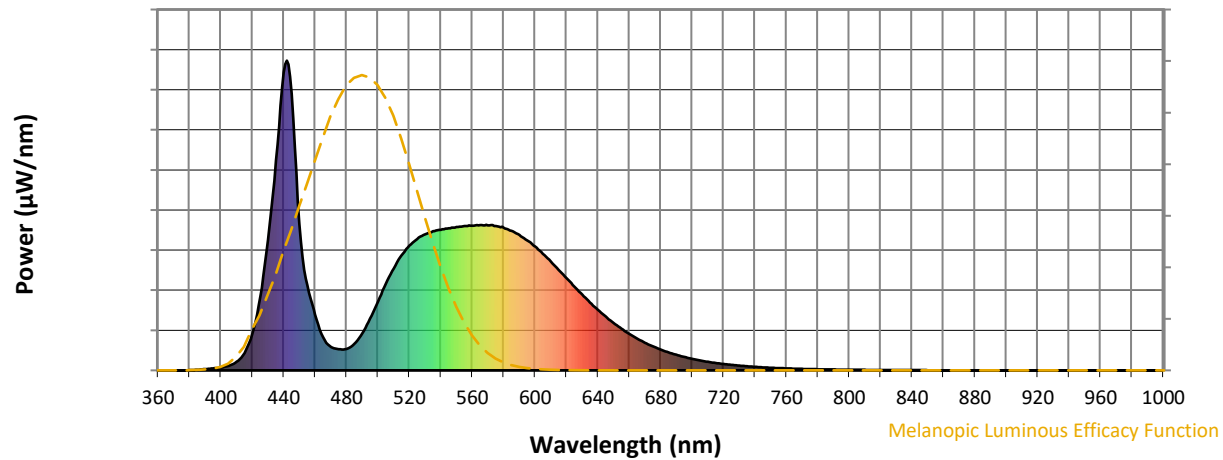
Scotopic Lumens: NR

S/P: 1.84

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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.71

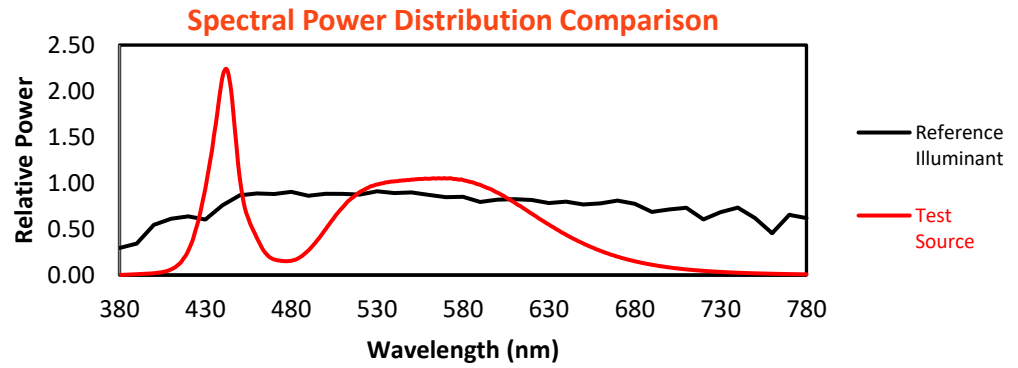
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-7

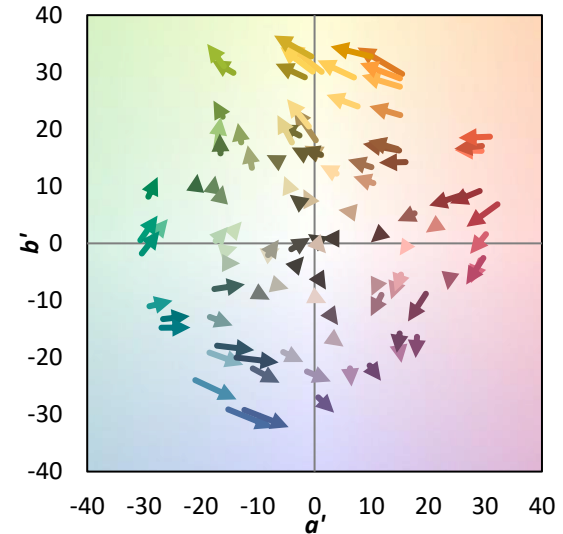
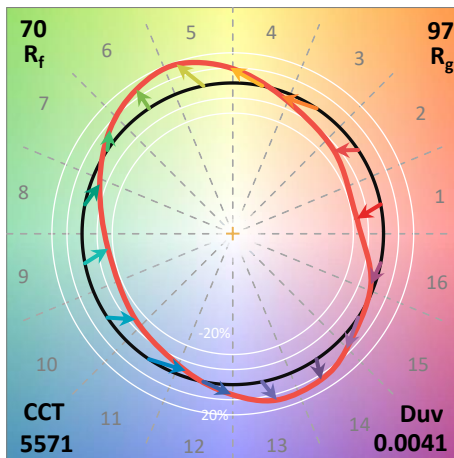
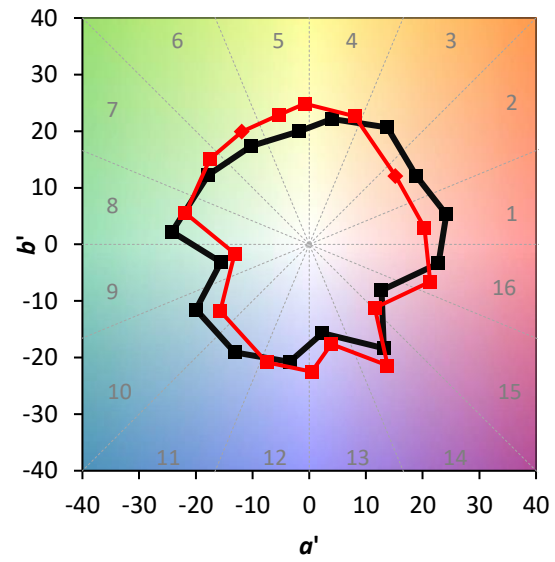
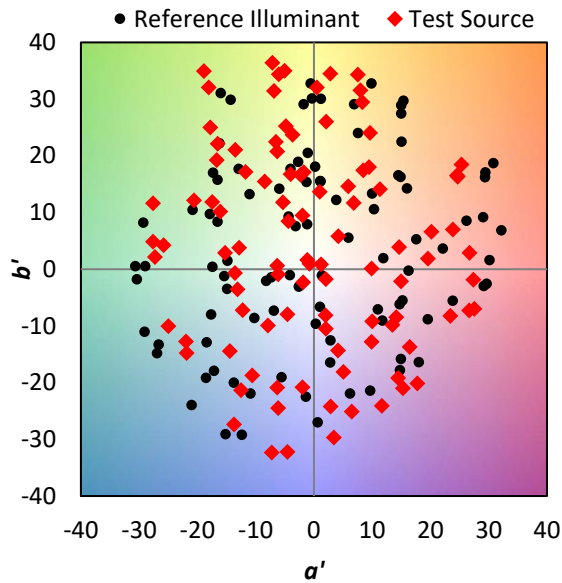
TM-30-18

Summary

$R_f = 70.4$
 $R_g = 97.1$
 $CIE R_a = 69.9$
 $R_g = -35.4$

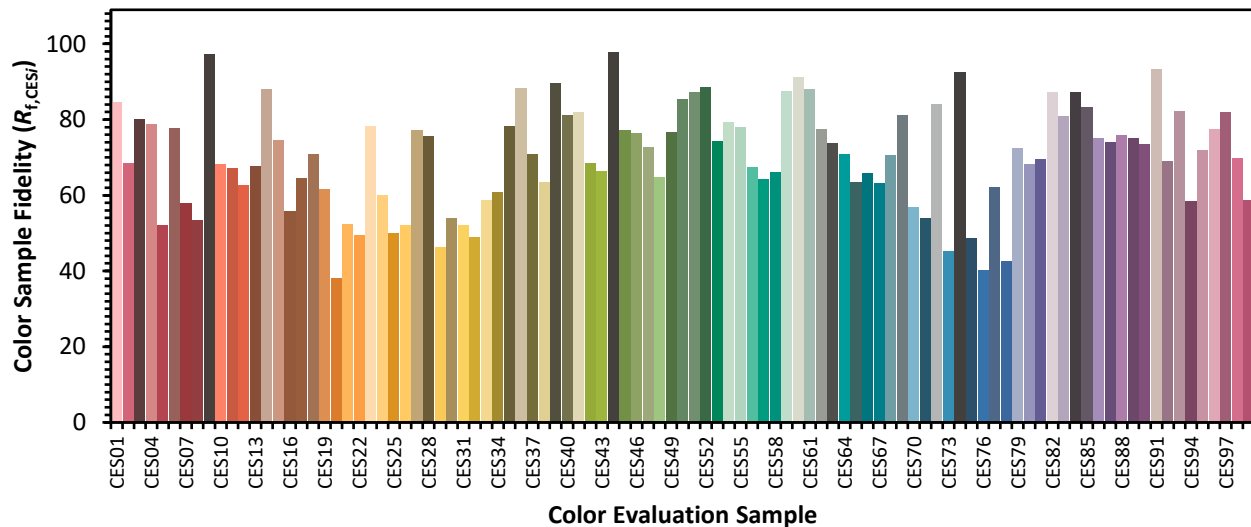


Color Vector Graphics

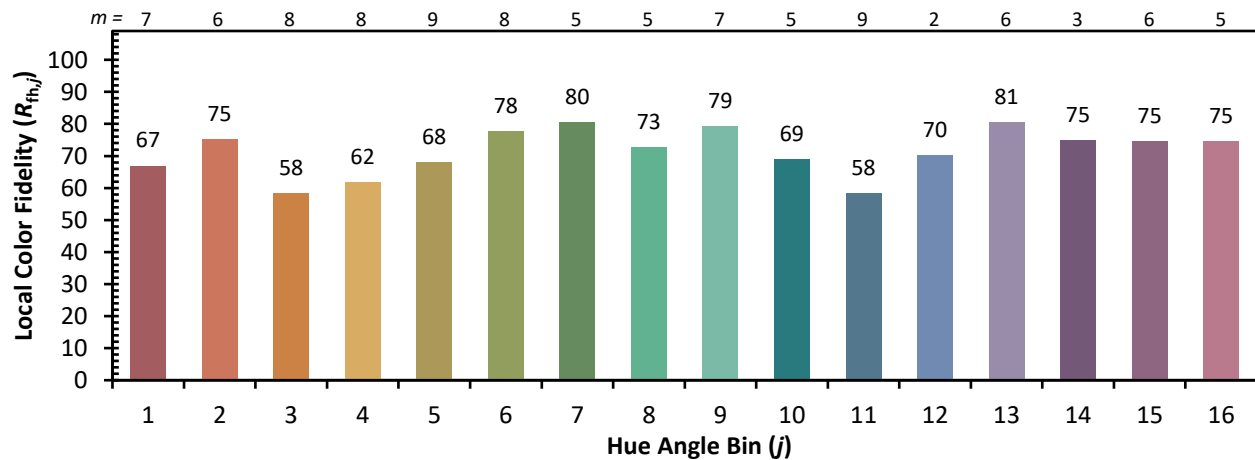
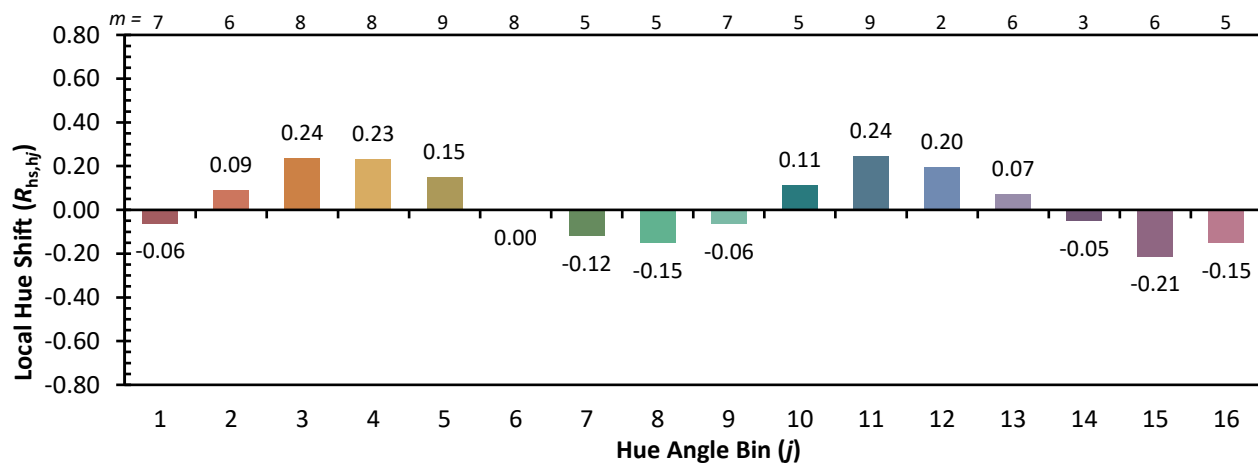
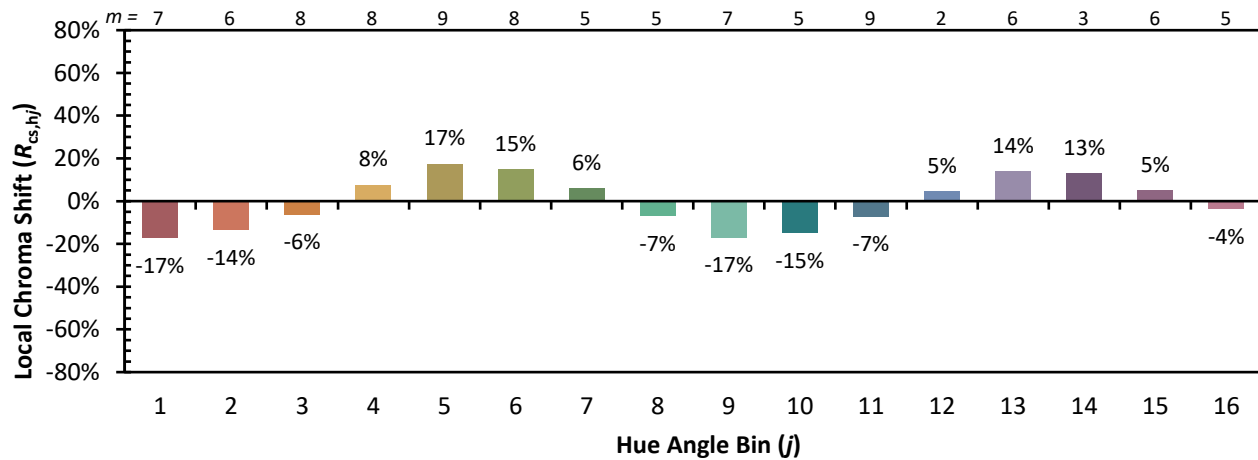


Individual Sample Fidelity Index ($R_{f,i}$)

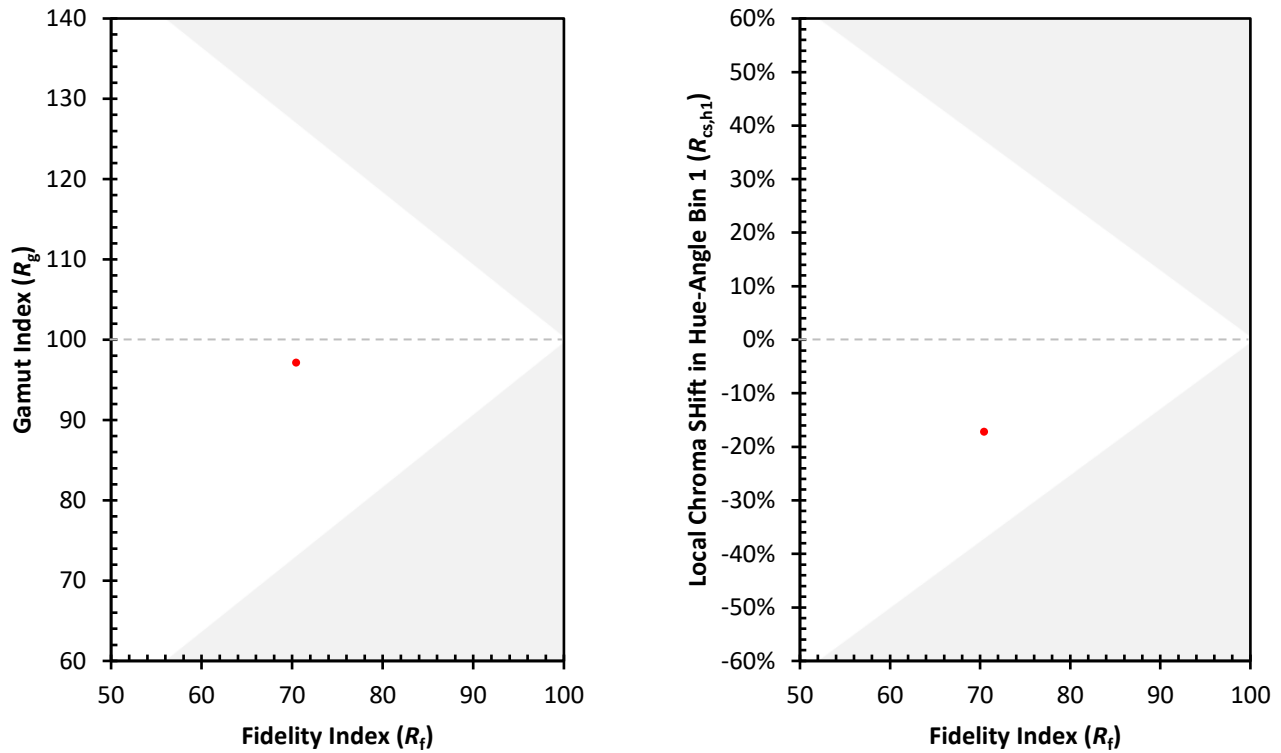
CES01 = 85	CES26 = 52	CES51 = 87	CES76 = 40
CES02 = 59	CES27 = 77	CES52 = 88	CES77 = 62
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 43
CES04 = 68	CES29 = 46	CES54 = 79	CES79 = 72
CES05 = 45	CES30 = 54	CES55 = 78	CES80 = 68
CES06 = 49	CES31 = 52	CES56 = 67	CES81 = 70
CES07 = 38	CES32 = 49	CES57 = 64	CES82 = 87
CES08 = 37	CES33 = 59	CES58 = 66	CES83 = 81
CES09 = 29	CES34 = 61	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 78	CES60 = 91	CES85 = 83
CES11 = 55	CES36 = 88	CES61 = 88	CES86 = 75
CES12 = 61	CES37 = 71	CES62 = 77	CES87 = 74
CES13 = 41	CES38 = 64	CES63 = 74	CES88 = 76
CES14 = 74	CES39 = 90	CES64 = 71	CES89 = 75
CES15 = 70	CES40 = 81	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 82	CES66 = 66	CES91 = 93
CES17 = 48	CES42 = 69	CES67 = 63	CES92 = 69
CES18 = 55	CES43 = 67	CES68 = 71	CES93 = 82
CES19 = 70	CES44 = 98	CES69 = 81	CES94 = 58
CES20 = 63	CES45 = 77	CES70 = 57	CES95 = 72
CES21 = 85	CES46 = 76	CES71 = 54	CES96 = 78
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 45	CES98 = 70
CES24 = 90	CES49 = 77	CES74 = 92	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)