

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: STREETWORKS

Report Number: P1065163

Luminaire Tested: **GLAN-SA8C-722-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065163
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8C-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 8xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29423.8 lumens
Efficiency: N/A
Efficacy: 78.9 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): 372.9
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

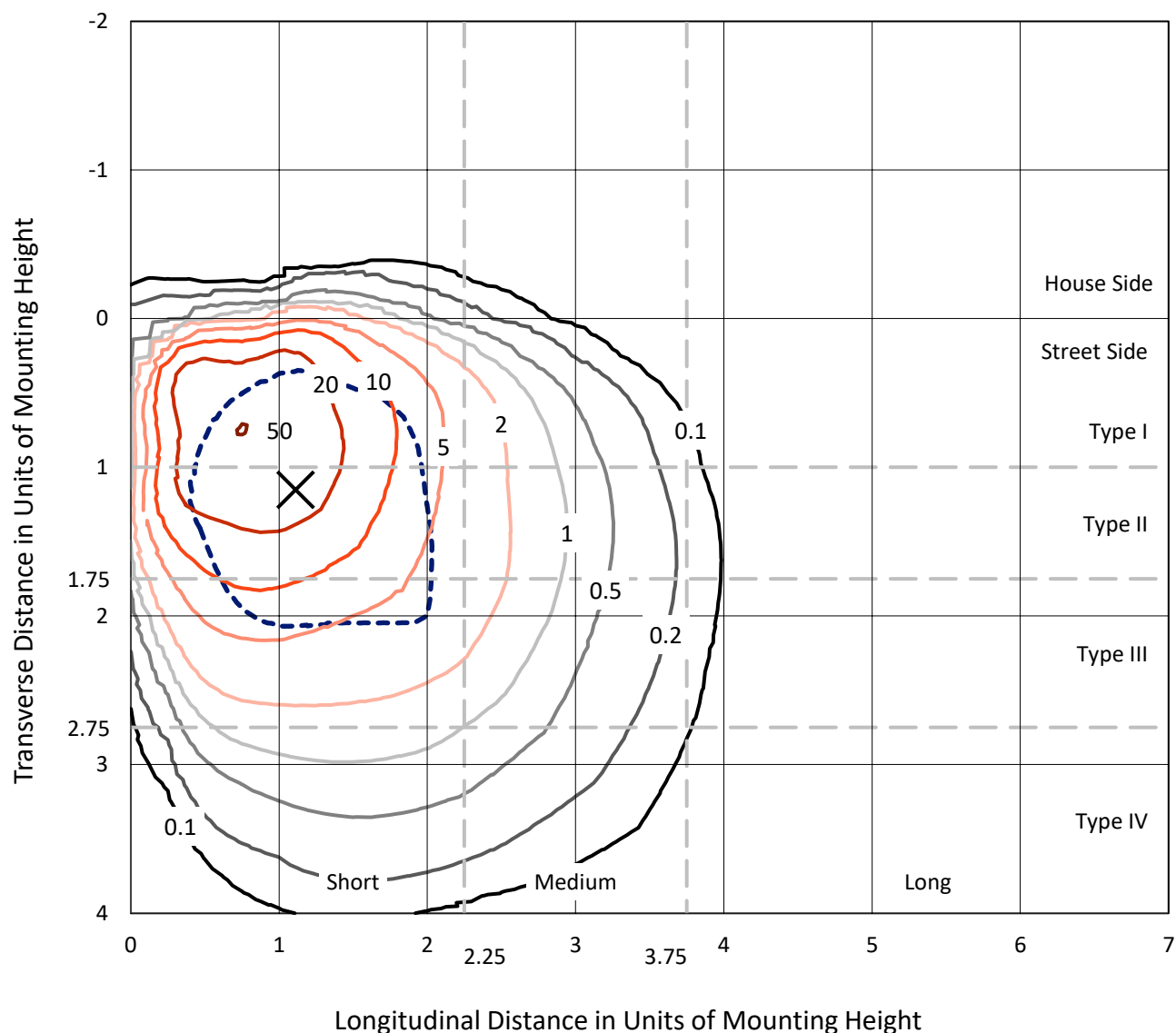
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

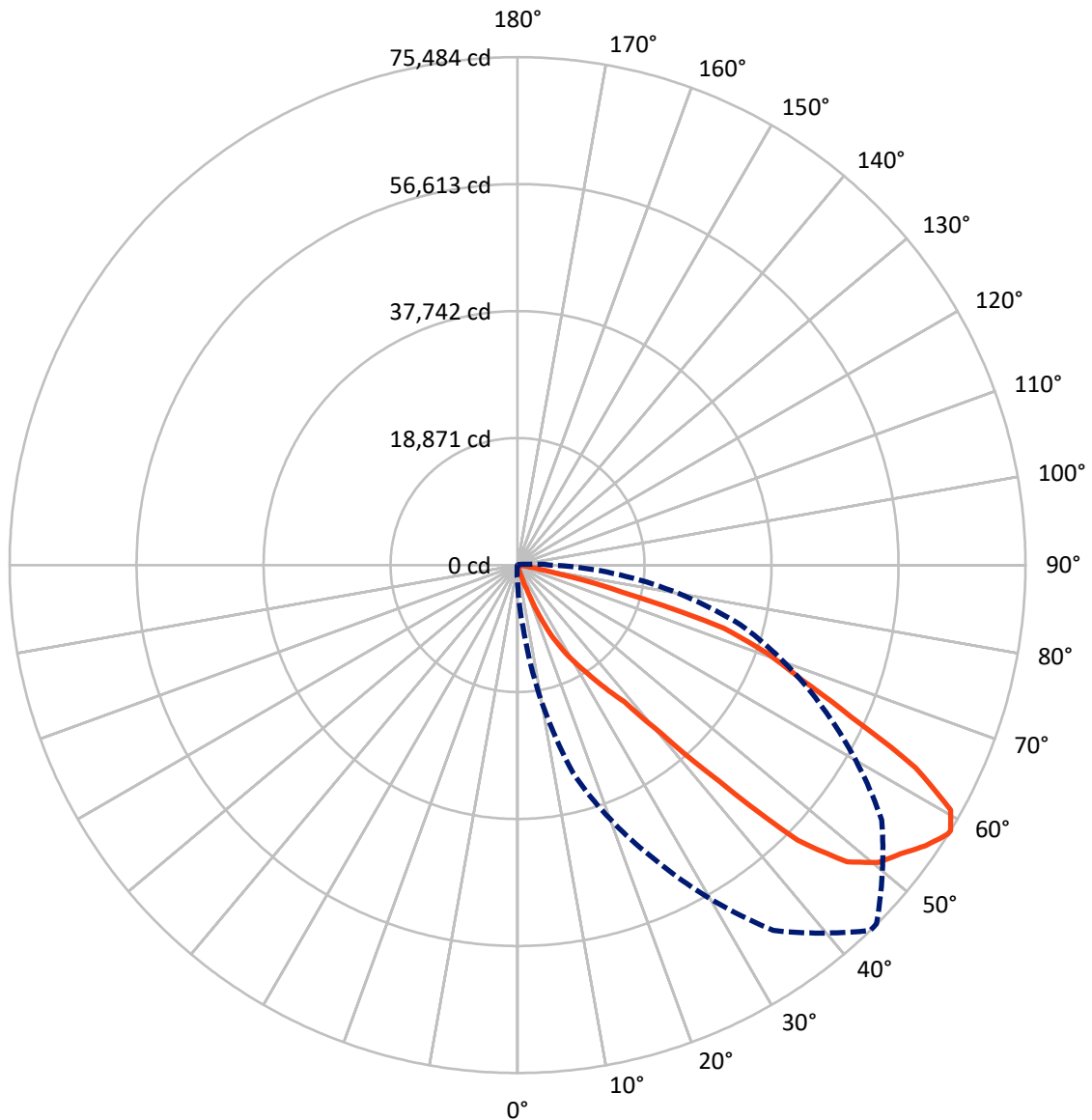


Based on 20 foot mounting height. Maximum calculated value = 51.2 fc

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	200.9	0.0	200.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	29222.9	0.0	29222.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	29423.8	0.0	29423.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.5	0.0
10°-20°	64.5	0.2
20°-30°	697.1	2.4
30°-40°	2061.4	7.0
40°-50°	6144.2	20.9
50°-60°	9749.3	33.1
60°-70°	8132.1	27.6
70°-80°	2508.1	8.5
80°-90°	55.7	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°	29423.8	100.0
0°-180°	29423.8	100.0



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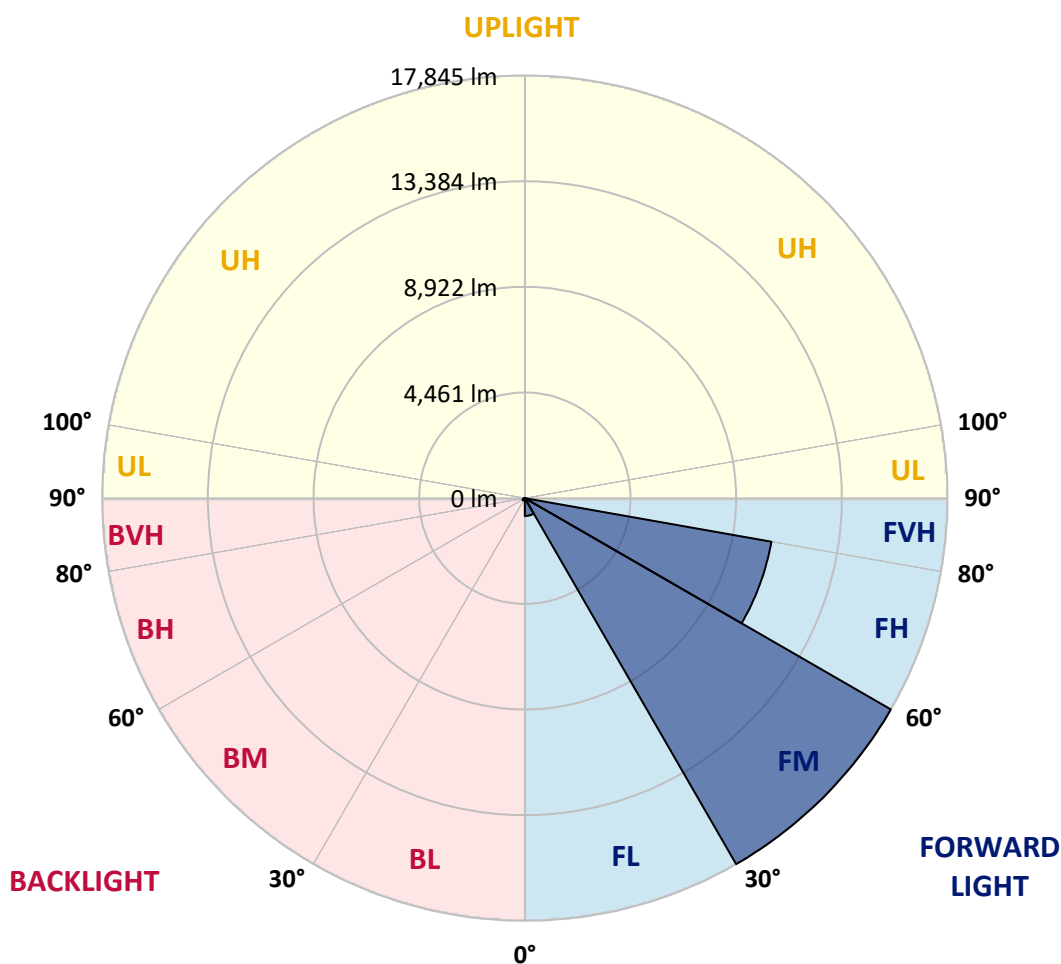
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	753.4	2.6			
FM	(30°-60°)	17844.9	60.6			
FH	(60°-80°)	10571.6	35.9			G4/12000
FVH	(80°-90°)	53.0	0.2			G1/100
BL	(0°-30°)	19.7	0.1	B0/110		
BM	(30°-60°)	110.0	0.4	B0/220		
BH	(60°-80°)	68.6	0.2	B0/110		G0/110
BVH	(80°-90°)	2.7	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°	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9
2.5°	166.7	166.7	160.0	151.1	142.3	133.4	131.1	126.7	124.5	122.2	120.0
5°	173.4	173.4	171.1	164.5	155.6	148.9	148.9	142.3	137.8	133.4	128.9
7.5°	177.8	180.0	184.5	182.3	177.8	171.1	171.1	166.7	160.0	148.9	142.3
10°	184.5	191.2	200.0	204.5	206.7	206.7	204.5	202.3	191.2	175.6	157.8
12.5°	191.2	204.5	226.7	248.9	262.3	280.1	277.8	273.4	244.5	211.2	180.0
15°	204.5	224.5	271.2	335.6	435.7	497.9	522.3	500.1	404.5	284.5	208.9
17.5°	220.0	253.4	393.4	702.4	1151.4	1364.8	1493.7	1389.2	920.2	540.1	262.3
20°	235.6	309.0	731.3	1820.4	2987.3	3685.3	3878.6	3576.4	2296.1	1029.1	389.0
22.5°	262.3	433.4	1482.6	3763.1	6437.0	7483.9	7681.7	6714.8	4336.5	2031.6	584.6
25°	317.8	629.0	2556.1	6132.5	9606.6	11373.7	11291.4	10024.5	7034.9	3245.2	889.1
27.5°	397.9	915.8	3865.3	8713.1	12642.8	14201.0	14387.7	12820.7	9377.7	4772.2	1262.5
30°	513.4	1269.2	5270.1	10780.2	15076.7	16761.5	16792.7	15172.3	11473.7	6112.5	1720.4
32.5°	624.6	1602.6	6499.2	12778.4	17475.0	19322.1	19459.9	17466.1	13038.5	7508.4	2118.3
35°	709.0	1820.4	7744.0	14534.4	19893.4	22438.4	22429.5	20062.3	14892.2	8755.3	2669.5
37.5°	715.7	2038.2	8870.9	16330.3	22956.3	25805.8	26088.1	23478.6	17132.7	10297.9	3345.2
40°	700.2	2282.7	10297.9	19131.0	28475.3	32847.4	33096.3	29806.7	21627.1	12938.5	4401.0
42.5°	717.9	2707.3	12613.9	24303.2	37639.6	43918.8	44398.9	40940.3	29888.9	18326.3	6283.6
45°	811.3	3505.2	17466.1	32956.3	50702.5	58357.6	58197.5	53216.4	39502.2	26528.2	10008.9
47.5°	1120.3	5459.0	24658.9	41378.2	59051.0	65868.1	66005.9	59917.9	45112.4	32834.0	15025.6
50°	1722.6	8353.0	30702.5	45830.3	62640.7	69480.1	69351.1	62316.2	47243.9	35939.2	18099.6
52.5°	2240.5	10446.8	33734.2	47392.9	63100.8	71264.9	71256.0	62947.5	47575.1	36205.9	18484.2
55°	2369.4	10604.6	33758.7	47477.3	64132.2	73601.0	73894.4	64501.2	48004.1	35041.2	17037.2
57.5°	2318.3	9388.8	32349.5	47966.3	65968.2	75408.1	75423.6	66005.9	49093.3	34327.7	14641.1
58°	2273.8	9197.6	32065.0	48244.2	66283.8	75483.6	75445.8	66074.8	49980.1	34301.0	14265.4
60°	2024.9	7986.2	30955.8	48953.2	65814.8	73932.2	73578.8	64570.1	49849.0	34027.6	12373.9
62.5°	1591.5	6230.3	29864.5	48133.0	60787.0	66421.6	66568.3	57166.2	45443.5	32434.0	10144.5
65°	1267.0	4643.3	27588.4	42220.6	50055.7	54545.6	55092.4	46486.0	37930.7	27463.9	7479.5
67.5°	1009.1	3356.3	23143.0	33614.2	39608.9	45523.6	45921.4	39028.8	29386.6	21042.5	5314.5
70°	820.2	2269.4	15974.7	24583.3	32669.6	39319.9	39344.4	32422.8	21933.8	13787.5	3334.1
72.5°	726.8	1571.5	9273.2	17928.5	26490.4	32040.5	31393.7	26310.4	16857.1	8166.3	1987.1
75°	629.0	1042.5	4547.7	10960.2	16061.4	16170.3	16417.0	12205.0	8426.3	3883.1	1191.4
77.5°	517.9	740.2	1791.5	2994.0	4816.6	6165.8	6394.8	4845.5	2802.9	955.8	635.7
80°	355.6	351.2	482.3	918.0	1378.1	1727.1	1611.5	1246.9	733.5	366.7	226.7
82.5°	153.4	166.7	217.8	262.3	213.4	206.7	197.8	126.7	97.8	75.6	46.7
85°	48.9	44.5	46.7	46.7	37.8	28.9	28.9	13.3	0.0	0.0	0.0
87.5°	24.4	20.0	20.0	17.8	11.1	4.4	2.2	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°	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9
2.5°	117.8	117.8	113.4	108.9	106.7	102.2	100.0	97.8	95.6	93.4	91.1
5°	124.5	122.2	115.6	108.9	102.2	95.6	91.1	86.7	82.2	80.0	77.8
7.5°	135.6	131.1	117.8	106.7	97.8	88.9	84.5	77.8	73.3	66.7	64.5
10°	148.9	140.0	122.2	108.9	95.6	84.5	77.8	71.1	64.5	55.6	53.3
12.5°	166.7	151.1	128.9	106.7	91.1	77.8	71.1	62.2	55.6	48.9	44.5
15°	182.3	162.3	131.1	106.7	86.7	71.1	62.2	53.3	46.7	37.8	33.3
17.5°	204.5	171.1	128.9	100.0	80.0	62.2	53.3	46.7	35.6	22.2	17.8
20°	242.3	177.8	124.5	93.4	68.9	51.1	40.0	31.1	15.6	4.4	0.0
22.5°	302.3	195.6	120.0	84.5	60.0	40.0	26.7	11.1	0.0	0.0	0.0
25°	417.9	226.7	120.0	80.0	53.3	28.9	8.9	0.0	0.0	0.0	0.0
27.5°	555.7	268.9	120.0	68.9	42.2	15.6	0.0	0.0	0.0	0.0	0.0
30°	695.7	315.6	120.0	60.0	33.3	2.2	0.0	0.0	0.0	0.0	0.0
32.5°	829.1	355.6	122.2	51.1	22.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	964.7	362.3	120.0	44.5	13.3	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1138.0	349.0	113.4	40.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	1400.3	355.6	106.7	37.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1884.9	384.5	97.8	37.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3258.5	515.7	88.9	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5390.1	926.9	86.7	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6879.3	1166.9	91.1	42.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6868.2	1300.3	95.6	44.5	8.9	0.0	0.0	0.0	0.0	0.0	0.0
55°	6105.8	1324.7	102.2	48.9	28.9	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5103.4	1209.2	117.8	60.0	53.3	0.0	0.0	0.0	0.0	0.0	0.0
58°	4925.6	1155.8	122.2	62.2	57.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	4036.5	942.4	155.6	77.8	77.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2787.3	822.4	177.8	100.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1971.6	742.4	193.4	106.7	64.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1473.7	684.6	213.4	108.9	33.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1129.1	642.4	262.3	115.6	8.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	920.2	593.5	317.8	120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	762.4	535.7	306.7	131.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	506.8	415.6	280.1	131.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	177.8	164.5	217.8	115.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.7	22.2	31.1	40.0	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	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°	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9
2.5°	91.1	91.1	88.9	91.1	91.1	95.6	106.7	122.2	140.0	146.7	153.4
5°	75.6	73.3	71.1	71.1	71.1	77.8	86.7	104.5	124.5	133.4	137.8
7.5°	62.2	60.0	57.8	55.6	55.6	60.0	71.1	91.1	111.1	120.0	126.7
10°	51.1	46.7	44.5	42.2	42.2	46.7	57.8	77.8	100.0	108.9	117.8
12.5°	42.2	35.6	31.1	28.9	26.7	33.3	44.5	62.2	86.7	97.8	106.7
15°	28.9	22.2	15.6	13.3	11.1	17.8	28.9	48.9	73.3	86.7	95.6
17.5°	15.6	6.7	2.2	0.0	0.0	4.4	13.3	35.6	60.0	71.1	82.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	44.5	55.6	66.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	26.7	37.8	48.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	20.0	28.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	13.3
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	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	17.8	24.4
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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CATALOG NUMBER: GLAN-SA8C-722-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9
2.5°	157.8	155.6	151.1	146.7	146.7	146.7	153.4	160.0	166.7	166.7
5°	146.7	146.7	144.5	140.0	140.0	142.3	151.1	162.3	171.1	173.4
7.5°	135.6	140.0	135.6	133.4	135.6	137.8	146.7	160.0	173.4	177.8
10°	128.9	131.1	131.1	128.9	128.9	133.4	142.3	160.0	177.8	184.5
12.5°	120.0	124.5	122.2	122.2	122.2	126.7	137.8	157.8	182.3	191.2
15°	111.1	117.8	117.8	115.6	115.6	117.8	133.4	155.6	188.9	204.5
17.5°	102.2	108.9	111.1	106.7	106.7	111.1	126.7	155.6	193.4	220.0
20°	84.5	95.6	102.2	95.6	95.6	100.0	115.6	146.7	195.6	235.6
22.5°	66.7	77.8	86.7	84.5	84.5	86.7	106.7	140.0	197.8	262.3
25°	48.9	60.0	66.7	71.1	71.1	77.8	97.8	135.6	206.7	317.8
27.5°	28.9	42.2	51.1	55.6	57.8	66.7	91.1	131.1	222.3	397.9
30°	13.3	24.4	35.6	44.5	44.5	60.0	84.5	126.7	242.3	513.4
32.5°	0.0	11.1	17.8	31.1	33.3	48.9	77.8	122.2	271.2	624.6
35°	0.0	0.0	8.9	24.4	24.4	40.0	71.1	117.8	315.6	709.0
37.5°	0.0	0.0	0.0	17.8	20.0	35.6	68.9	115.6	324.5	715.7
40°	0.0	0.0	0.0	13.3	15.6	33.3	68.9	117.8	293.4	700.2
42.5°	0.0	0.0	0.0	8.9	11.1	33.3	68.9	122.2	264.5	717.9
45°	0.0	0.0	0.0	6.7	8.9	35.6	66.7	120.0	248.9	811.3
47.5°	0.0	0.0	0.0	8.9	13.3	35.6	64.5	117.8	251.2	1120.3
50°	0.0	0.0	0.0	11.1	15.6	35.6	66.7	113.4	275.6	1722.6
52.5°	0.0	0.0	0.0	8.9	13.3	40.0	73.3	111.1	300.1	2240.5
55°	0.0	0.0	0.0	2.2	6.7	51.1	80.0	111.1	337.9	2369.4
57.5°	0.0	0.0	0.0	0.0	0.0	57.8	91.1	117.8	400.1	2318.3
58°	0.0	0.0	0.0	0.0	0.0	57.8	93.4	117.8	404.5	2273.8
60°	0.0	0.0	0.0	0.0	0.0	57.8	102.2	131.1	435.7	2024.9
62.5°	0.0	0.0	0.0	0.0	0.0	48.9	122.2	164.5	453.4	1591.5
65°	0.0	0.0	0.0	0.0	0.0	40.0	144.5	180.0	466.8	1267.0
67.5°	0.0	0.0	0.0	0.0	0.0	37.8	148.9	182.3	473.4	1009.1
70°	0.0	0.0	0.0	0.0	0.0	40.0	146.7	195.6	495.7	820.2
72.5°	0.0	0.0	0.0	0.0	0.0	44.5	133.4	215.6	495.7	726.8
75°	0.0	0.0	0.0	0.0	0.0	46.7	124.5	242.3	451.2	629.0
77.5°	0.0	0.0	0.0	0.0	0.0	44.5	122.2	282.3	402.3	517.9
80°	4.4	6.7	6.7	4.4	4.4	37.8	120.0	286.7	342.3	355.6
82.5°	13.3	17.8	15.6	11.1	11.1	33.3	106.7	240.1	177.8	153.4
85°	24.4	28.9	28.9	24.4	24.4	31.1	66.7	86.7	60.0	48.9
87.5°	33.3	37.8	37.8	33.3	33.3	31.1	28.9	26.7	24.4	24.4
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

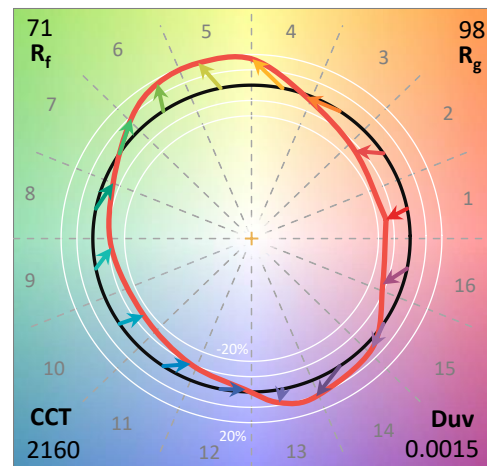
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

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

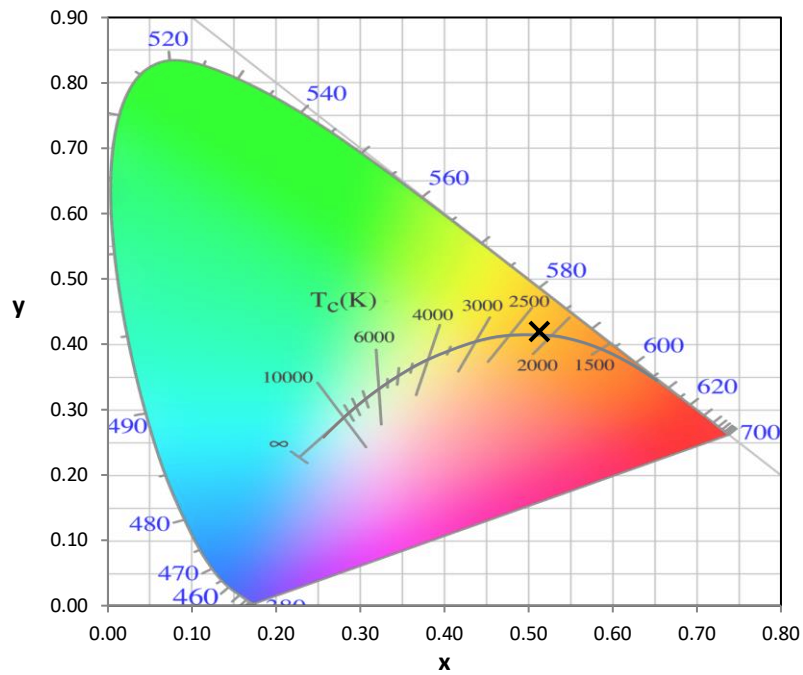
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

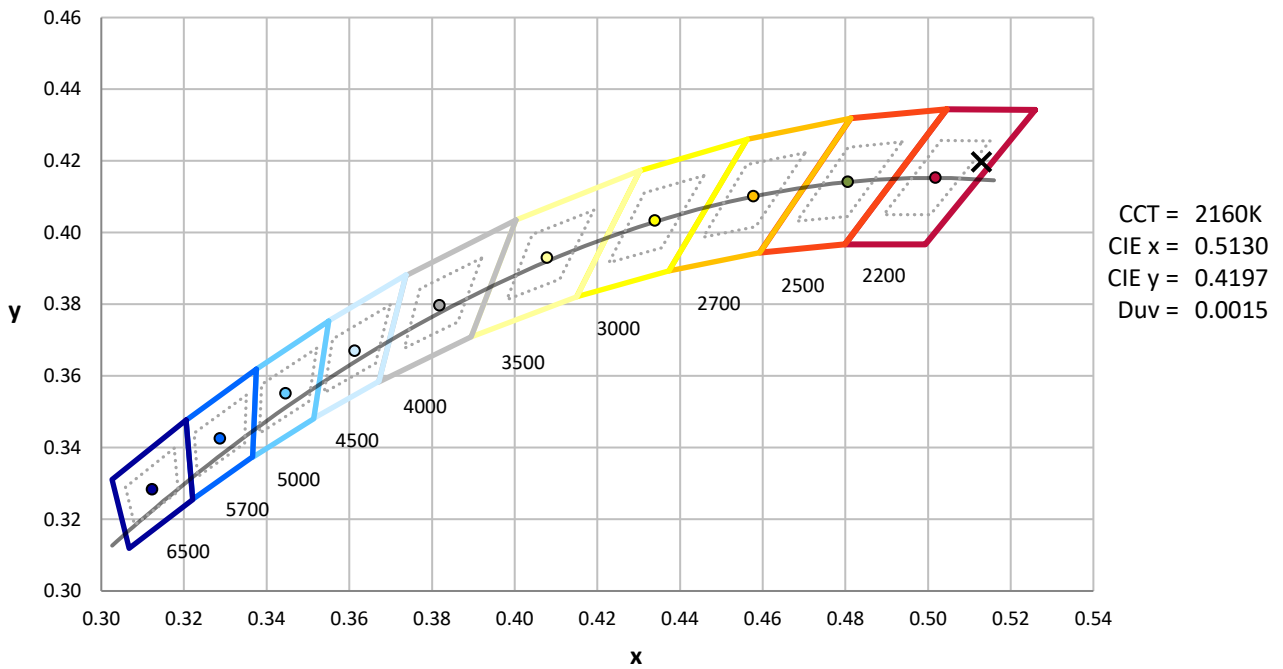
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



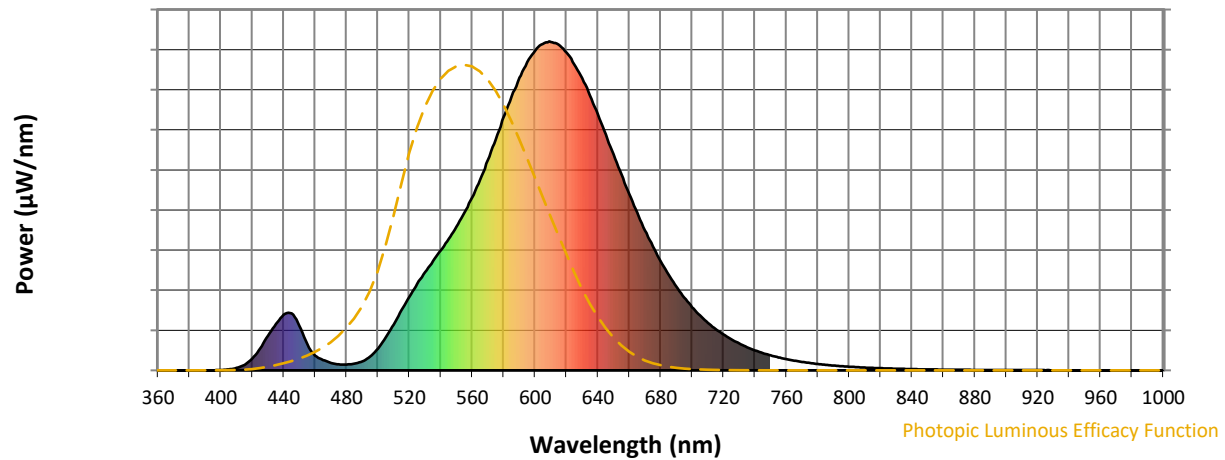
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

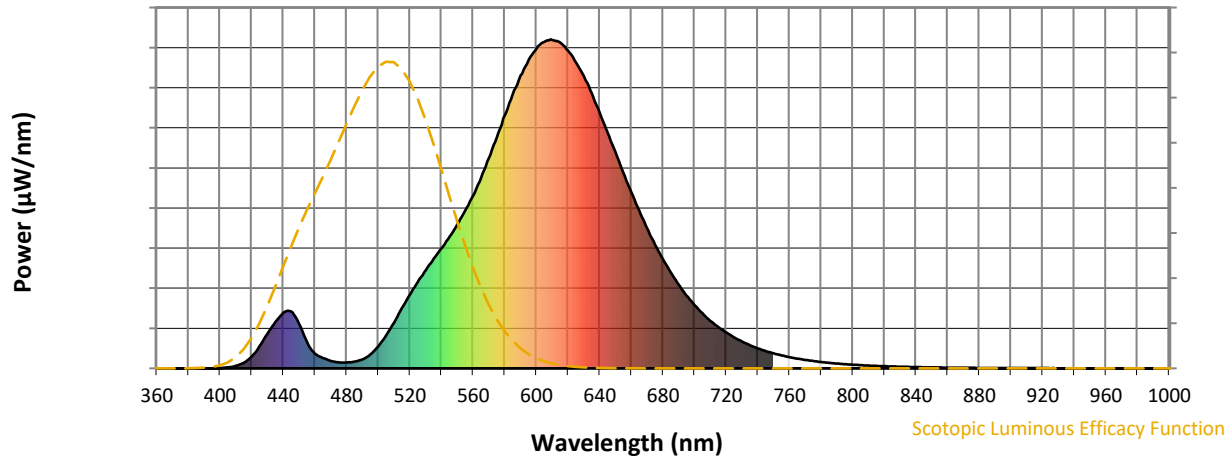


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



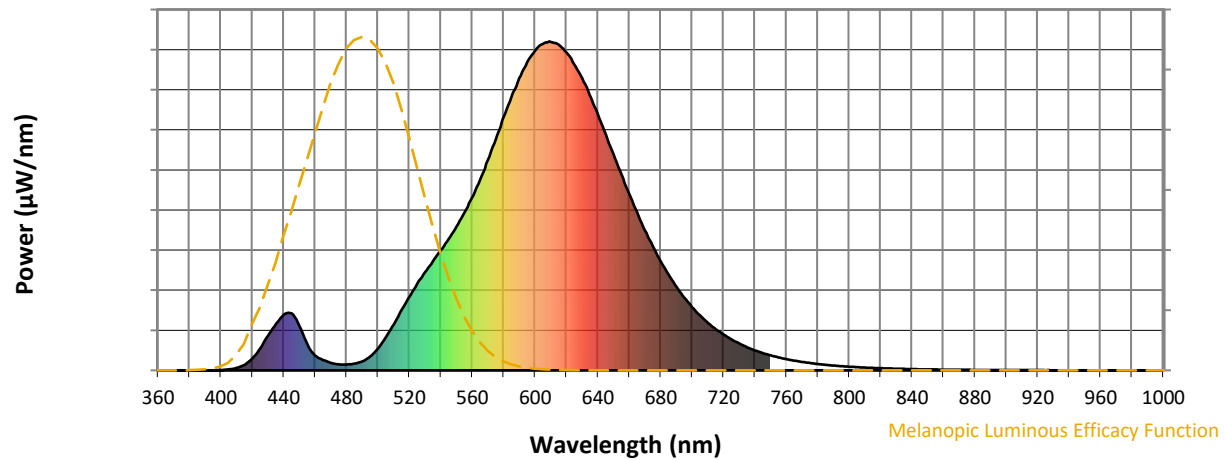
Scotopic Lumens: NR

S/P: 0.8

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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

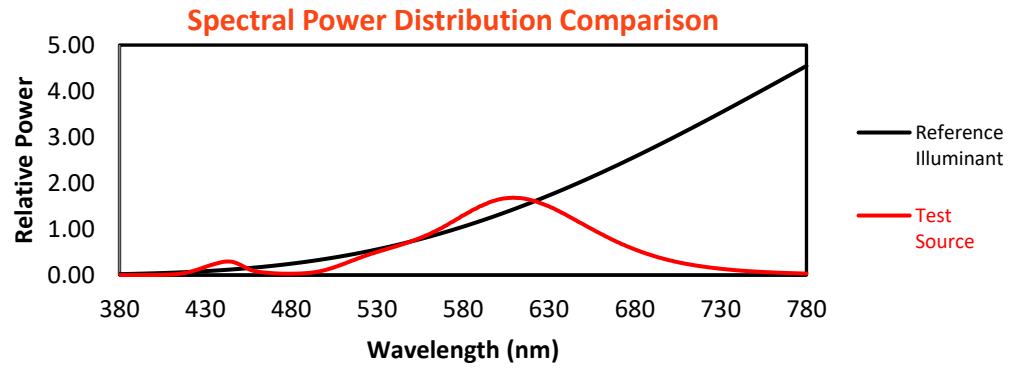
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	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			

REPORT NUMBER: SP1-2407-184-2

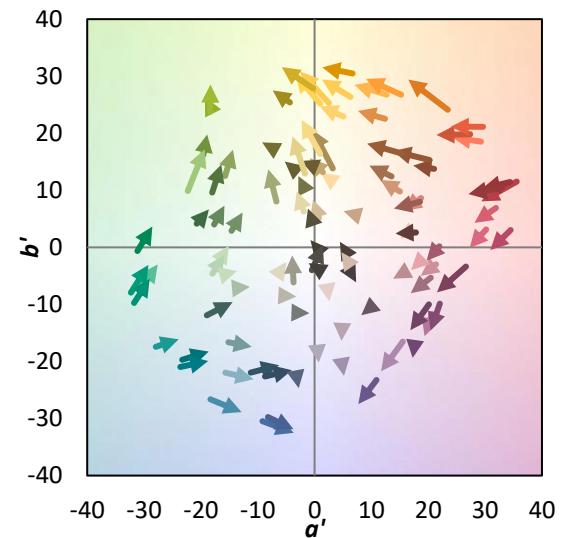
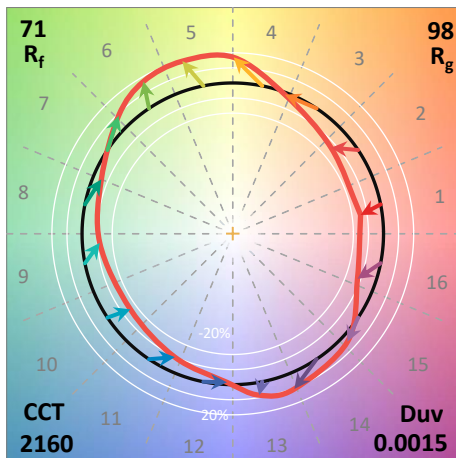
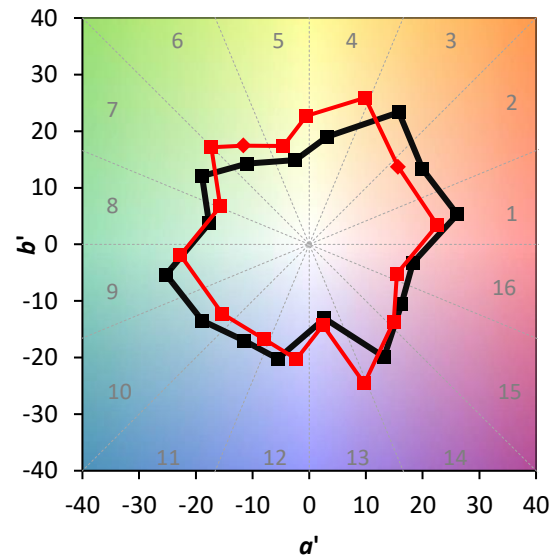
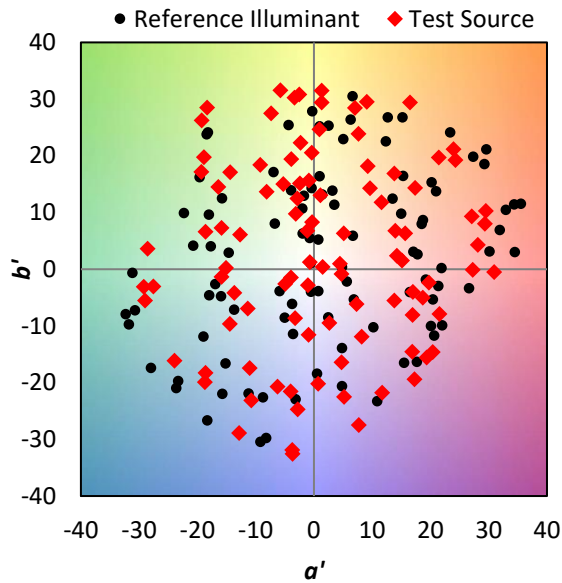
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE\ R_a = 71.9$
 $R_g = -17.8$

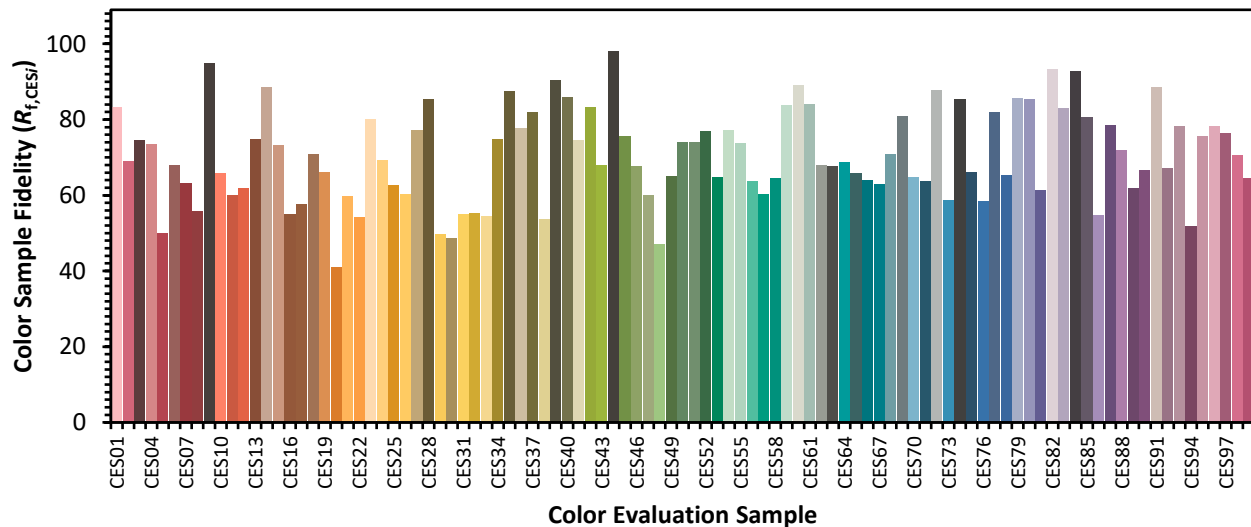


Color Vector Graphics

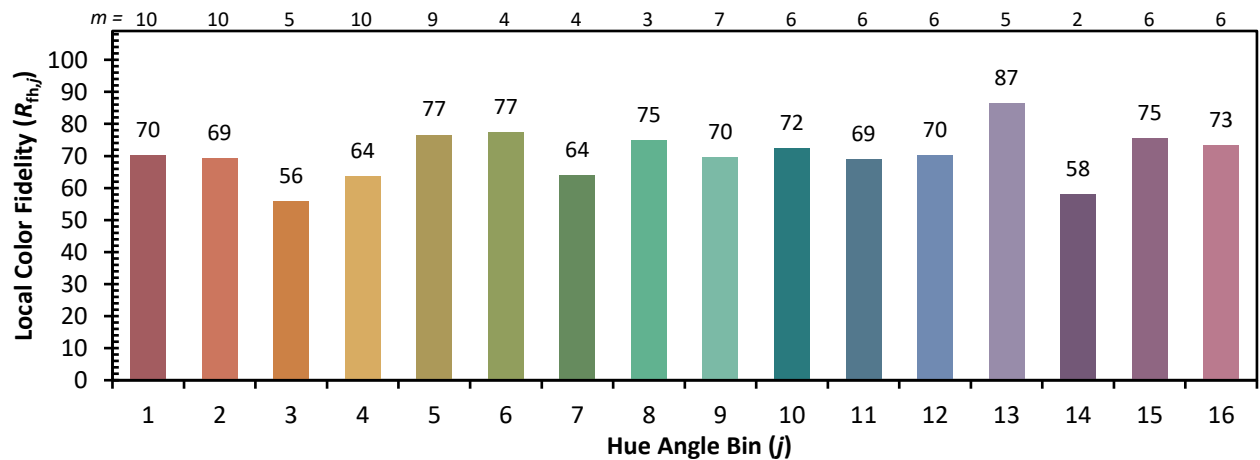
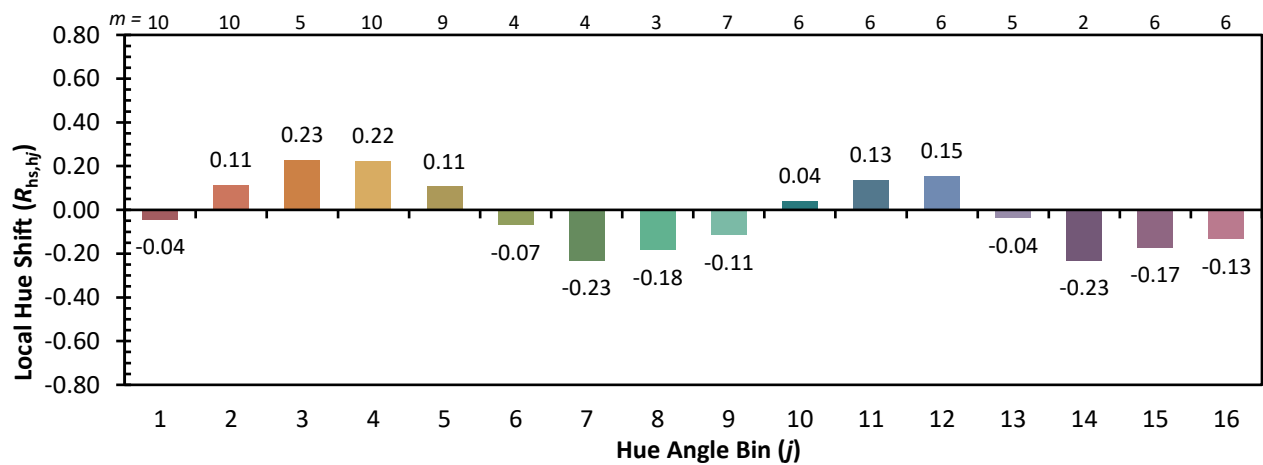
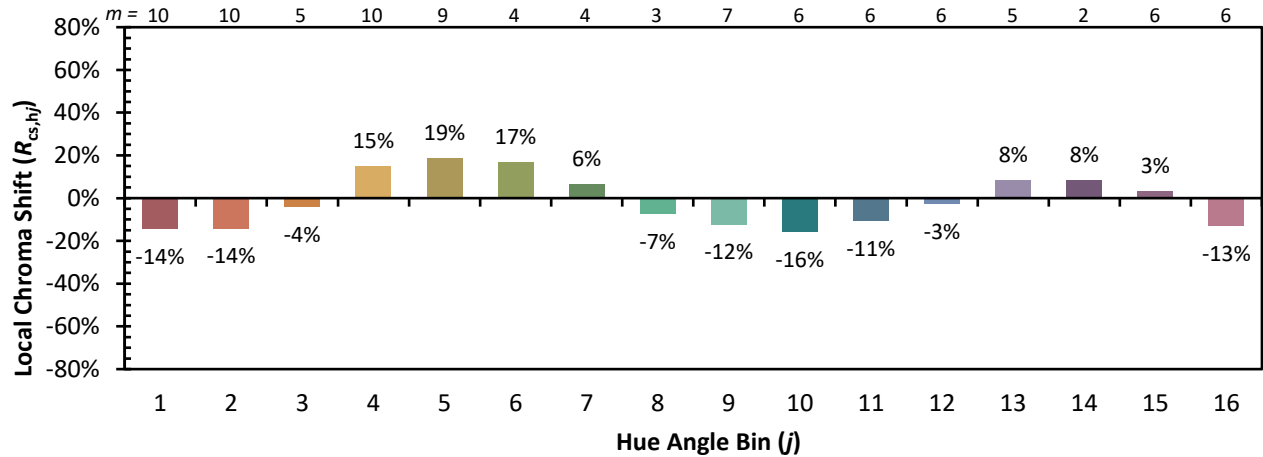


Individual Sample Fidelity Index ($R_{f,i}$)

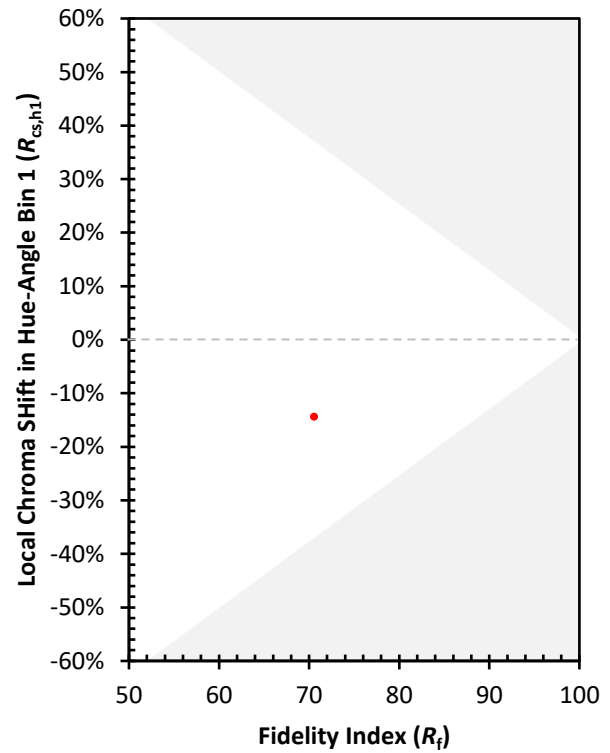
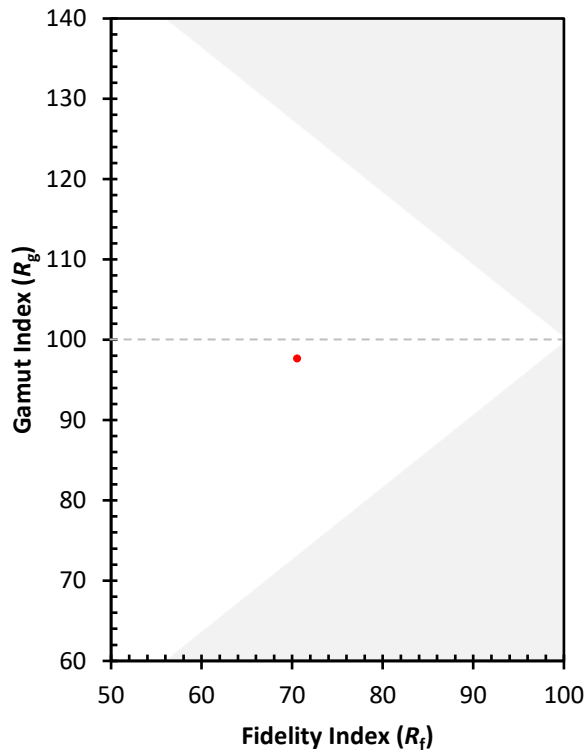
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 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)