

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: P1065181

Luminaire Tested: **GLAN-SA4A-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065181
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12077.8 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

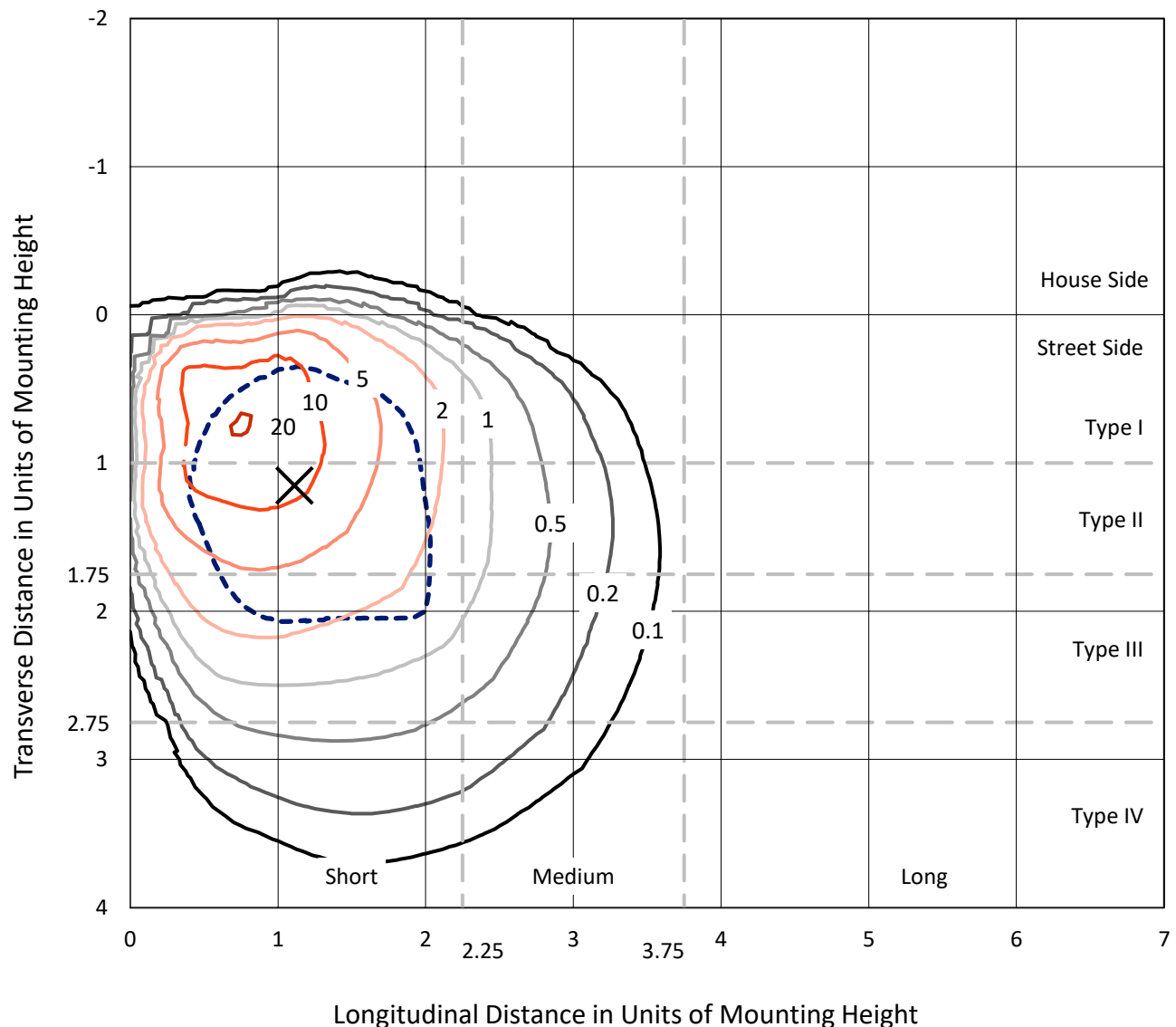
Input Watts (W): 107.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

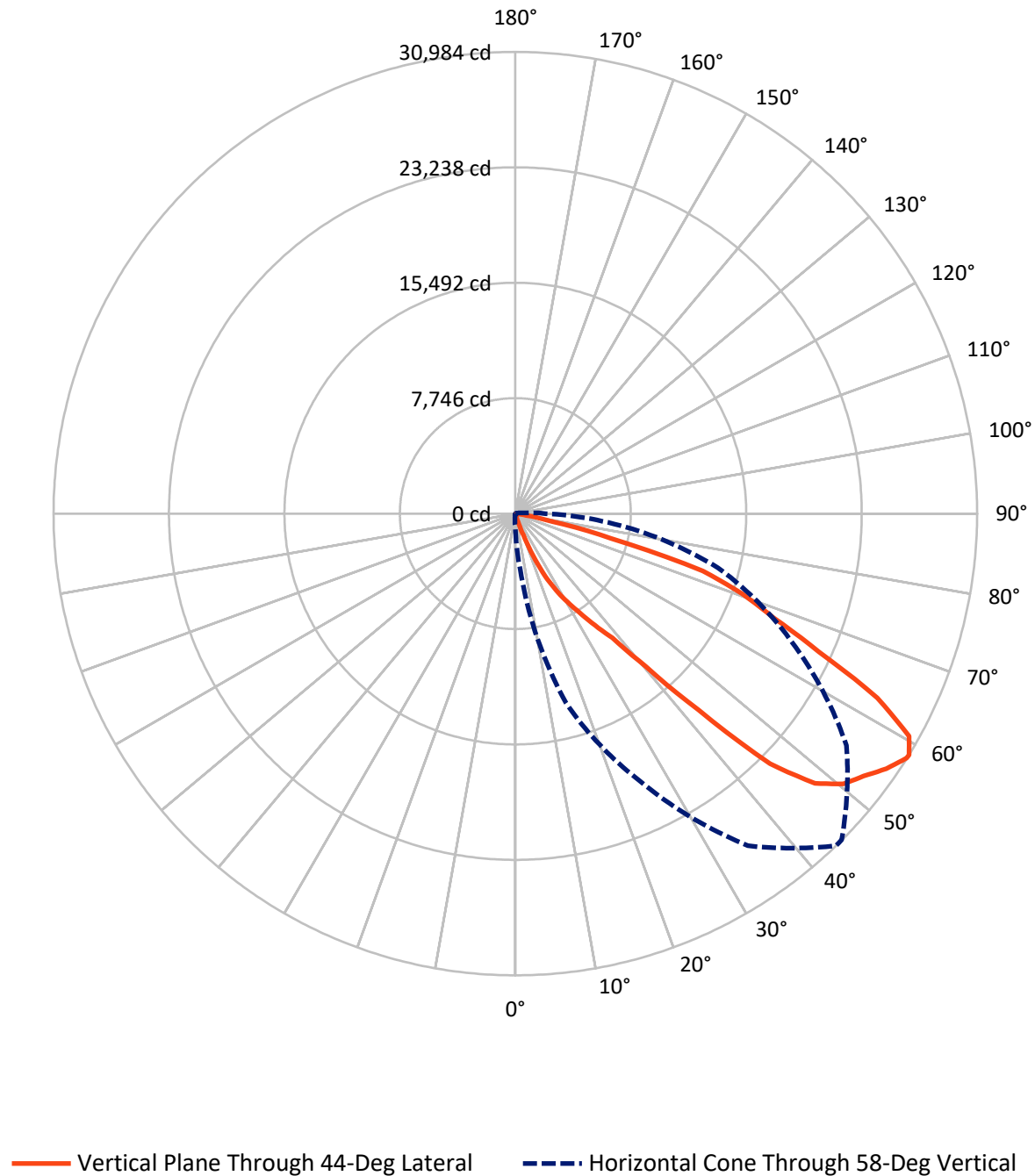
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21 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	82.5	0.0	82.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	11995.4	0.0	11995.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	12077.8	0.0	12077.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.0
10°-20°	26.5	0.2
20°-30°	286.1	2.4
30°-40°	846.2	7.0
40°-50°	2522.0	20.9
50°-60°	4001.9	33.1
60°-70°	3338.0	27.6
70°-80°	1029.5	8.5
80°-90°	22.9	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°	12077.8	100.0
0°-180°	12077.8	100.0



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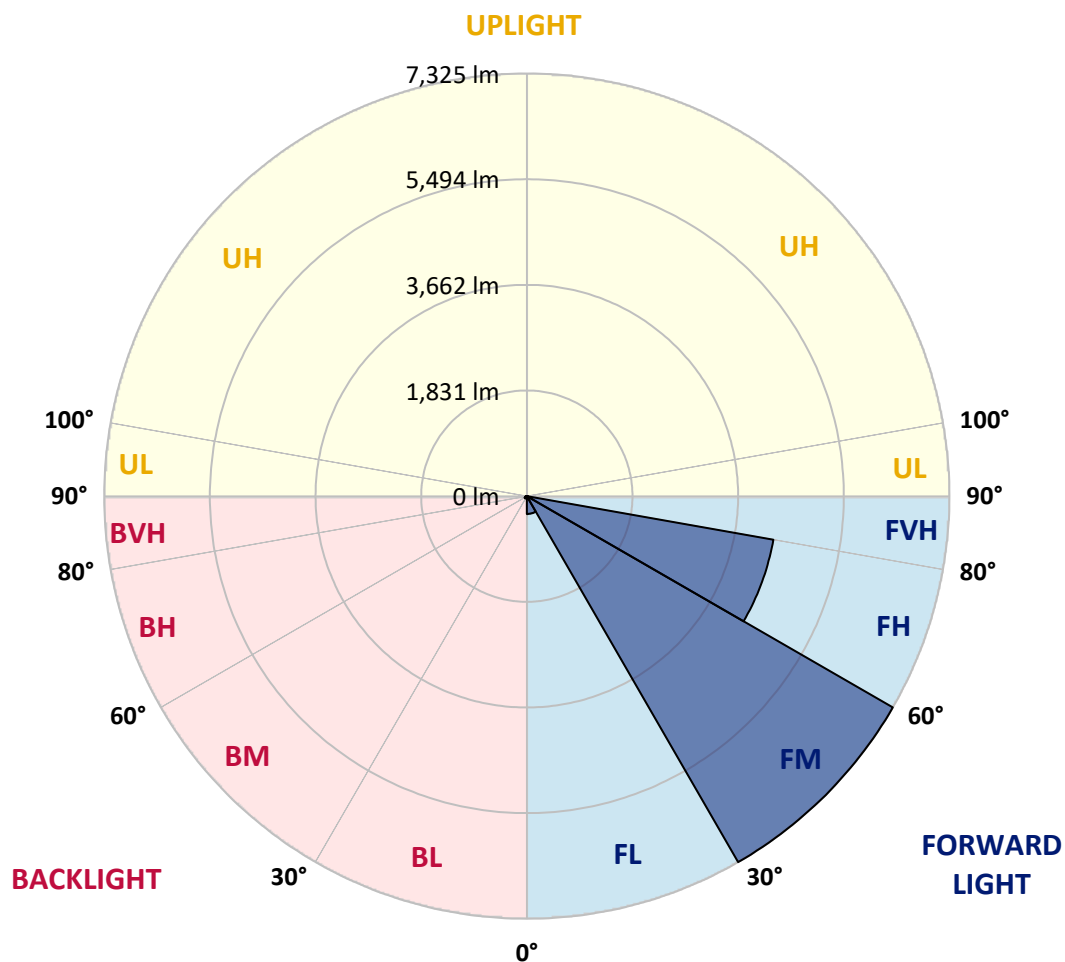
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	309.3	2.6			
FM	(30°-60°)	7325.0	60.6			
FH	(60°-80°)	4339.4	35.9			G2/5000
FVH	(80°-90°)	21.8	0.2			G1/100
BL	(0°-30°)	8.1	0.1	B0/110		
BM	(30°-60°)	45.1	0.4	B0/220		
BH	(60°-80°)	28.2	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	85°
0°	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
2.5°	68.4	68.4	65.7	62.0	58.4	54.7	53.8	52.0	51.1	50.2	49.3
5°	71.2	71.2	70.3	67.5	63.9	61.1	61.1	58.4	56.6	54.7	52.9
7.5°	73.0	73.9	75.7	74.8	73.0	70.3	70.3	68.4	65.7	61.1	58.4
10°	75.7	78.5	82.1	83.9	84.9	84.9	83.9	83.0	78.5	72.1	64.8
12.5°	78.5	83.9	93.1	102.2	107.7	115.0	114.0	112.2	100.4	86.7	73.9
15°	83.9	92.2	111.3	137.8	178.8	204.4	214.4	205.3	166.1	116.8	85.8
17.5°	90.3	104.0	161.5	288.3	472.6	560.2	613.1	570.2	377.7	221.7	107.7
20°	96.7	126.8	300.2	747.2	1226.2	1512.7	1592.1	1468.0	942.5	422.4	159.7
22.5°	107.7	177.9	608.6	1544.7	2642.2	3072.0	3153.2	2756.3	1780.0	833.9	240.0
25°	130.5	258.2	1049.2	2517.3	3943.3	4668.6	4634.9	4114.8	2887.7	1332.1	365.0
27.5°	163.3	375.9	1586.6	3576.5	5189.6	5829.2	5905.8	5262.6	3849.3	1958.9	518.2
30°	210.8	521.0	2163.2	4425.0	6188.7	6880.2	6893.0	6227.9	4709.7	2509.0	706.2
32.5°	256.4	657.8	2667.8	5245.3	7173.1	7931.3	7987.9	7169.5	5352.0	3082.0	869.5
35°	291.0	747.2	3178.7	5966.0	8165.8	9210.5	9206.8	8235.1	6112.9	3593.9	1095.8
37.5°	293.8	836.7	3641.3	6703.2	9423.0	10592.7	10708.6	9637.4	7032.6	4227.0	1373.1
40°	287.4	937.0	4227.0	7852.8	11688.5	13483.1	13585.3	12235.0	8877.4	5311.0	1806.5
42.5°	294.7	1111.3	5177.7	9975.9	15450.2	18027.7	18224.8	16805.1	12268.7	7522.6	2579.3
45°	333.0	1438.8	7169.5	13527.8	20812.3	23954.5	23888.8	21844.2	16214.8	10889.2	4108.4
47.5°	459.8	2240.8	10121.9	16984.8	24239.1	27037.4	27094.0	24595.0	18517.6	13477.6	6167.7
50°	707.1	3428.7	12602.7	18812.3	25712.6	28520.0	28467.1	25579.4	19392.6	14752.2	7429.5
52.5°	919.7	4288.2	13847.2	19453.7	25901.5	29252.7	29249.0	25838.5	19528.5	14861.7	7587.3
55°	972.6	4353.0	13857.2	19488.4	26324.8	30211.6	30332.0	26476.3	19704.6	14383.6	6993.4
57.5°	951.6	3853.9	13278.8	19689.1	27078.5	30953.3	30959.7	27094.0	20151.7	14090.8	6009.8
58°	933.4	3775.4	13162.0	19803.2	27208.0	30984.4	30968.8	27122.3	20515.7	14079.8	5855.6
60°	831.2	3278.2	12706.7	20094.2	27015.5	30347.5	30202.5	26504.6	20461.9	13967.6	5079.2
62.5°	653.3	2557.4	12258.7	19757.5	24951.7	27264.6	27324.8	23465.5	18653.6	13313.4	4164.1
65°	520.1	1906.0	11324.4	17330.6	20546.8	22389.8	22614.2	19081.5	15569.7	11273.3	3070.2
67.5°	414.2	1377.7	9499.7	13797.9	16258.6	18686.4	18849.7	16020.4	12062.6	8637.5	2181.5
70°	336.7	931.5	6557.3	10090.9	13410.1	16140.0	16150.0	13308.9	9003.3	5659.5	1368.6
72.5°	298.3	645.1	3806.4	7359.2	10873.7	13151.9	12886.4	10799.8	6919.5	3352.1	815.7
75°	258.2	427.9	1866.7	4498.9	6592.8	6637.6	6738.8	5009.9	3458.8	1593.9	489.0
77.5°	212.6	303.8	735.4	1229.0	1977.1	2530.9	2624.9	1989.0	1150.5	392.3	260.9
80°	146.0	144.2	198.0	376.8	565.7	708.9	661.5	511.8	301.1	150.5	93.1
82.5°	63.0	68.4	89.4	107.7	87.6	84.9	81.2	52.0	40.1	31.0	19.2
85°	20.1	18.2	19.2	19.2	15.5	11.9	11.9	5.5	0.0	0.0	0.0
87.5°	10.0	8.2	8.2	7.3	4.6	1.8	0.9	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°	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
2.5°	48.4	48.4	46.5	44.7	43.8	42.0	41.1	40.1	39.2	38.3	37.4
5°	51.1	50.2	47.4	44.7	42.0	39.2	37.4	35.6	33.8	32.8	31.9
7.5°	55.7	53.8	48.4	43.8	40.1	36.5	34.7	31.9	30.1	27.4	26.5
10°	61.1	57.5	50.2	44.7	39.2	34.7	31.9	29.2	26.5	22.8	21.9
12.5°	68.4	62.0	52.9	43.8	37.4	31.9	29.2	25.5	22.8	20.1	18.2
15°	74.8	66.6	53.8	43.8	35.6	29.2	25.5	21.9	19.2	15.5	13.7
17.5°	83.9	70.3	52.9	41.1	32.8	25.5	21.9	19.2	14.6	9.1	7.3
20°	99.4	73.0	51.1	38.3	28.3	21.0	16.4	12.8	6.4	1.8	0.0
22.5°	124.1	80.3	49.3	34.7	24.6	16.4	10.9	4.6	0.0	0.0	0.0
25°	171.5	93.1	49.3	32.8	21.9	11.9	3.6	0.0	0.0	0.0	0.0
27.5°	228.1	110.4	49.3	28.3	17.3	6.4	0.0	0.0	0.0	0.0	0.0
30°	285.6	129.6	49.3	24.6	13.7	0.9	0.0	0.0	0.0	0.0	0.0
32.5°	340.3	146.0	50.2	21.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	396.0	148.7	49.3	18.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	467.1	143.2	46.5	16.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	574.8	146.0	43.8	15.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	773.7	157.8	40.1	15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1337.5	211.7	36.5	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2212.5	380.5	35.6	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2823.8	479.0	37.4	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2819.2	533.7	39.2	18.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
55°	2506.3	543.8	42.0	20.1	11.9	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2094.8	496.3	48.4	24.6	21.9	0.0	0.0	0.0	0.0	0.0	0.0
58°	2021.8	474.4	50.2	25.5	23.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1656.9	386.8	63.9	31.9	31.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1144.1	337.6	73.0	41.1	32.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	809.3	304.7	79.4	43.8	26.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	604.9	281.0	87.6	44.7	13.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	463.5	263.7	107.7	47.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	377.7	243.6	130.5	49.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	312.9	219.9	125.9	53.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	208.0	170.6	115.0	53.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	73.0	67.5	89.4	47.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.9	9.1	12.8	16.4	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°	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
2.5°	37.4	37.4	36.5	37.4	37.4	39.2	43.8	50.2	57.5	60.2	63.0
5°	31.0	30.1	29.2	29.2	29.2	31.9	35.6	42.9	51.1	54.7	56.6
7.5°	25.5	24.6	23.7	22.8	22.8	24.6	29.2	37.4	45.6	49.3	52.0
10°	21.0	19.2	18.2	17.3	17.3	19.2	23.7	31.9	41.1	44.7	48.4
12.5°	17.3	14.6	12.8	11.9	10.9	13.7	18.2	25.5	35.6	40.1	43.8
15°	11.9	9.1	6.4	5.5	4.6	7.3	11.9	20.1	30.1	35.6	39.2
17.5°	6.4	2.7	0.9	0.0	0.0	1.8	5.5	14.6	24.6	29.2	33.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	18.2	22.8	27.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	10.9	15.5	20.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	8.2	11.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.5
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	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3	10.0
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):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
2.5°	64.8	63.9	62.0	60.2	60.2	60.2	63.0	65.7	68.4	68.4
5°	60.2	60.2	59.3	57.5	57.5	58.4	62.0	66.6	70.3	71.2
7.5°	55.7	57.5	55.7	54.7	55.7	56.6	60.2	65.7	71.2	73.0
10°	52.9	53.8	53.8	52.9	52.9	54.7	58.4	65.7	73.0	75.7
12.5°	49.3	51.1	50.2	50.2	50.2	52.0	56.6	64.8	74.8	78.5
15°	45.6	48.4	48.4	47.4	47.4	48.4	54.7	63.9	77.6	83.9
17.5°	42.0	44.7	45.6	43.8	43.8	45.6	52.0	63.9	79.4	90.3
20°	34.7	39.2	42.0	39.2	39.2	41.1	47.4	60.2	80.3	96.7
22.5°	27.4	31.9	35.6	34.7	34.7	35.6	43.8	57.5	81.2	107.7
25°	20.1	24.6	27.4	29.2	29.2	31.9	40.1	55.7	84.9	130.5
27.5°	11.9	17.3	21.0	22.8	23.7	27.4	37.4	53.8	91.2	163.3
30°	5.5	10.0	14.6	18.2	18.2	24.6	34.7	52.0	99.4	210.8
32.5°	0.0	4.6	7.3	12.8	13.7	20.1	31.9	50.2	111.3	256.4
35°	0.0	0.0	3.6	10.0	10.0	16.4	29.2	48.4	129.6	291.0
37.5°	0.0	0.0	0.0	7.3	8.2	14.6	28.3	47.4	133.2	293.8
40°	0.0	0.0	0.0	5.5	6.4	13.7	28.3	48.4	120.4	287.4
42.5°	0.0	0.0	0.0	3.6	4.6	13.7	28.3	50.2	108.6	294.7
45°	0.0	0.0	0.0	2.7	3.6	14.6	27.4	49.3	102.2	333.0
47.5°	0.0	0.0	0.0	3.6	5.5	14.6	26.5	48.4	103.1	459.8
50°	0.0	0.0	0.0	4.6	6.4	14.6	27.4	46.5	113.1	707.1
52.5°	0.0	0.0	0.0	3.6	5.5	16.4	30.1	45.6	123.2	919.7
55°	0.0	0.0	0.0	0.9	2.7	21.0	32.8	45.6	138.7	972.6
57.5°	0.0	0.0	0.0	0.0	0.0	23.7	37.4	48.4	164.2	951.6
58°	0.0	0.0	0.0	0.0	0.0	23.7	38.3	48.4	166.1	933.4
60°	0.0	0.0	0.0	0.0	0.0	23.7	42.0	53.8	178.8	831.2
62.5°	0.0	0.0	0.0	0.0	0.0	20.1	50.2	67.5	186.1	653.3
65°	0.0	0.0	0.0	0.0	0.0	16.4	59.3	73.9	191.6	520.1
67.5°	0.0	0.0	0.0	0.0	0.0	15.5	61.1	74.8	194.3	414.2
70°	0.0	0.0	0.0	0.0	0.0	16.4	60.2	80.3	203.5	336.7
72.5°	0.0	0.0	0.0	0.0	0.0	18.2	54.7	88.5	203.5	298.3
75°	0.0	0.0	0.0	0.0	0.0	19.2	51.1	99.4	185.2	258.2
77.5°	0.0	0.0	0.0	0.0	0.0	18.2	50.2	115.9	165.1	212.6
80°	1.8	2.7	2.7	1.8	1.8	15.5	49.3	117.7	140.5	146.0
82.5°	5.5	7.3	6.4	4.6	4.6	13.7	43.8	98.5	73.0	63.0
85°	10.0	11.9	11.9	10.0	10.0	12.8	27.4	35.6	24.6	20.1
87.5°	13.7	15.5	15.5	13.7	13.7	12.8	11.9	10.9	10.0	10.0
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

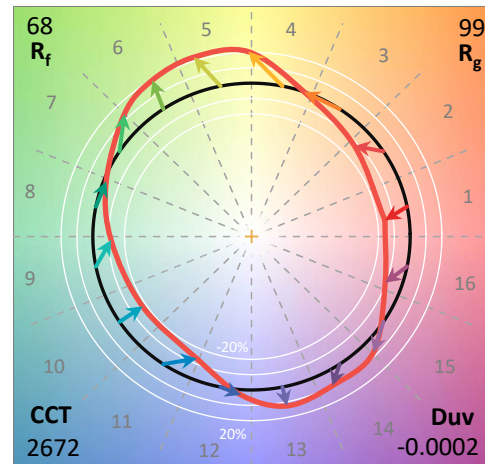
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

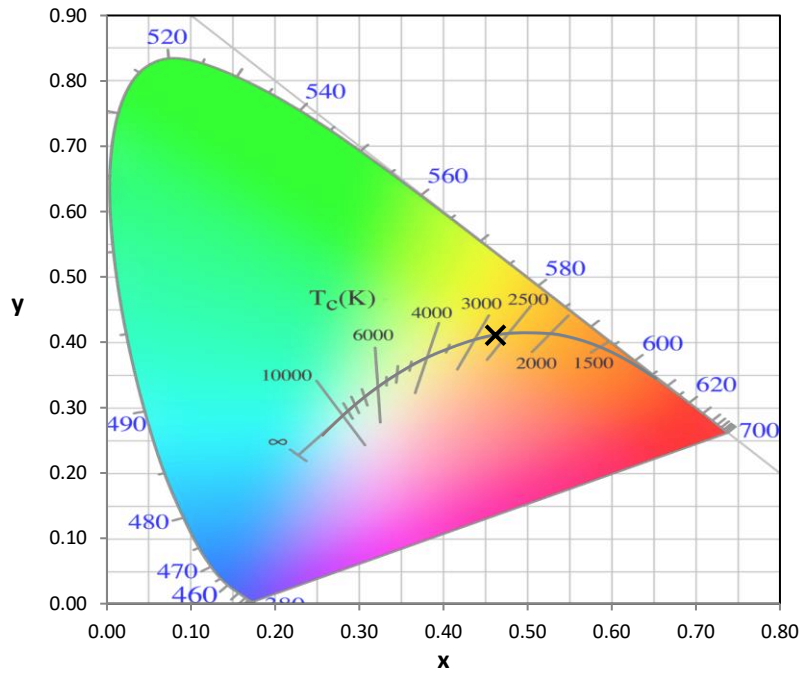
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

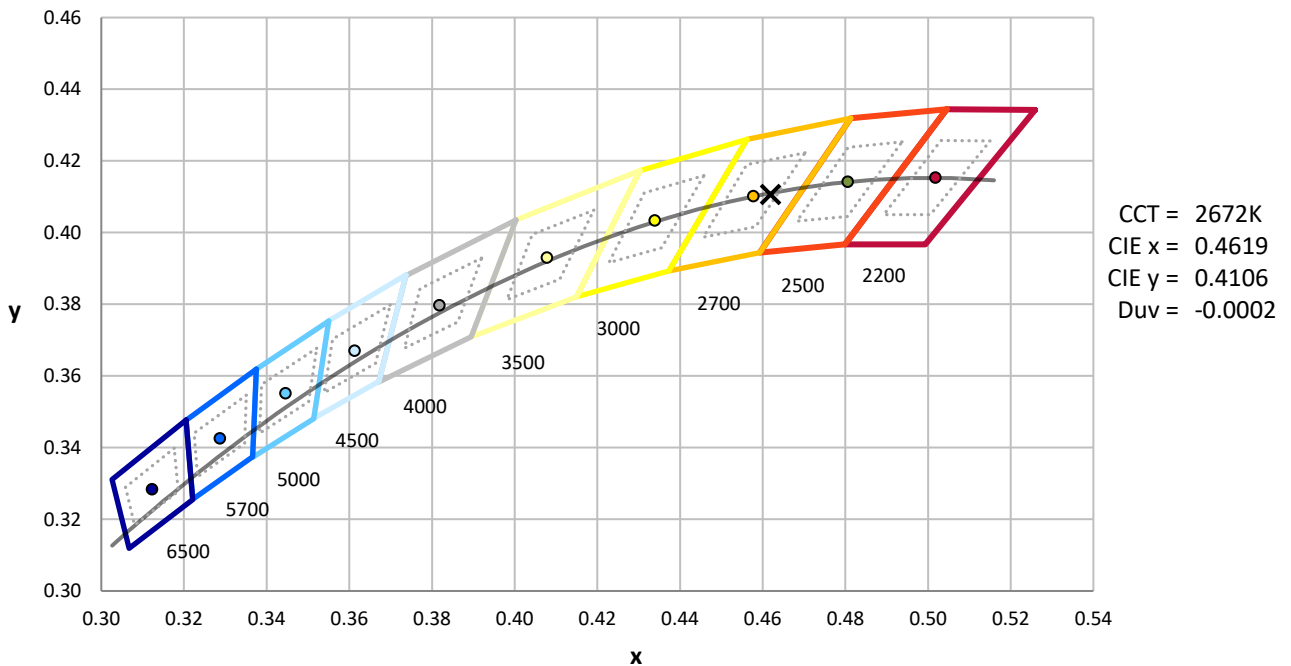
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



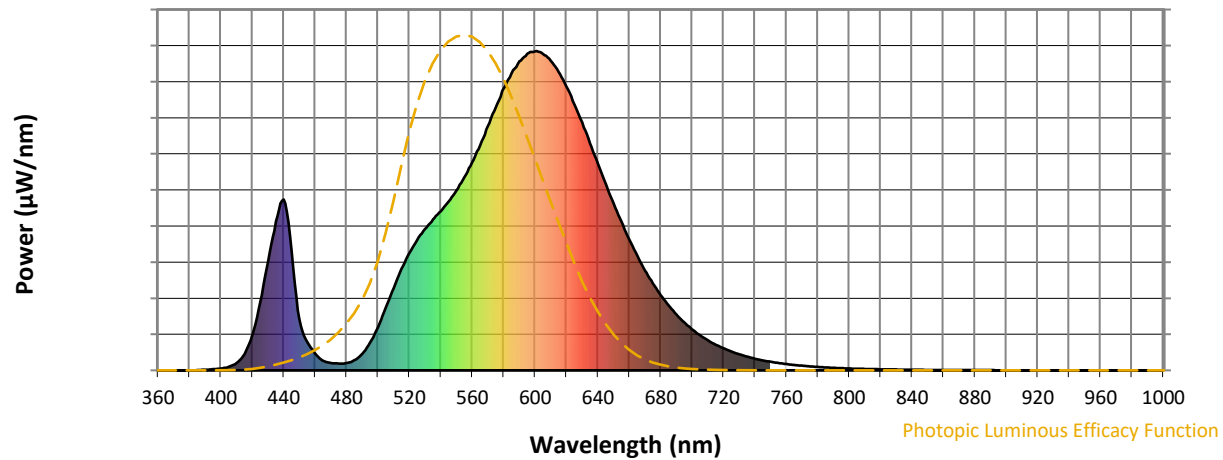
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

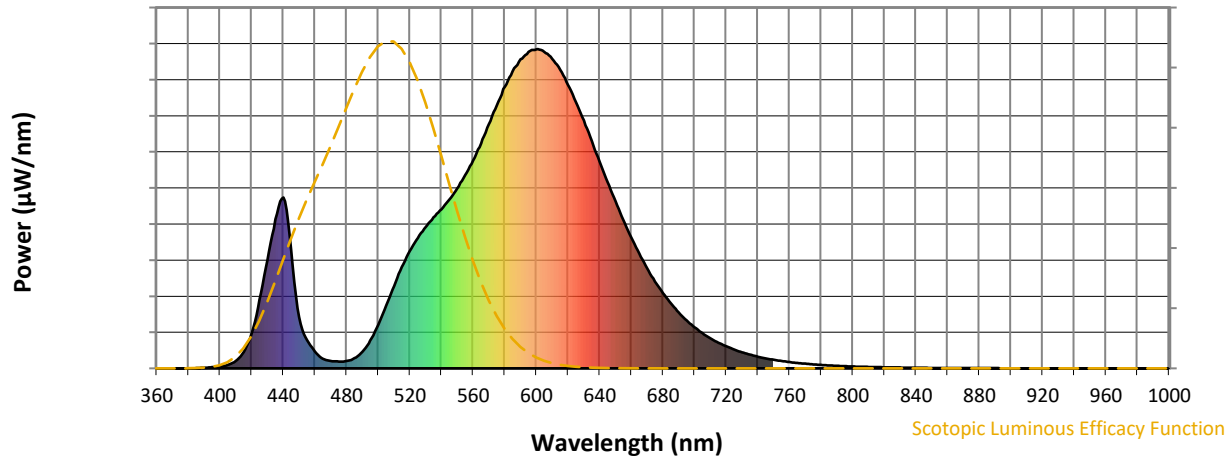


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



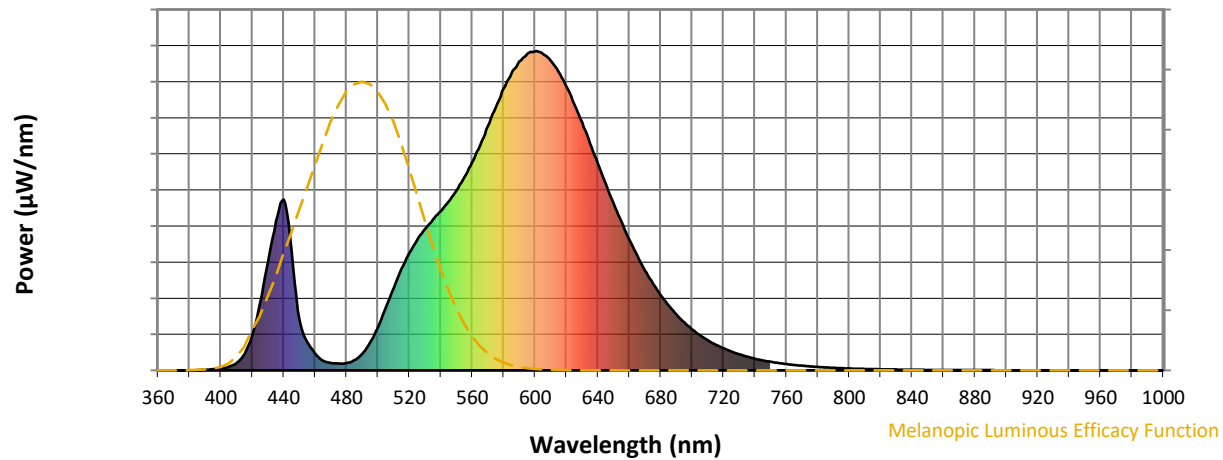
Scotopic Lumens: NR

S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

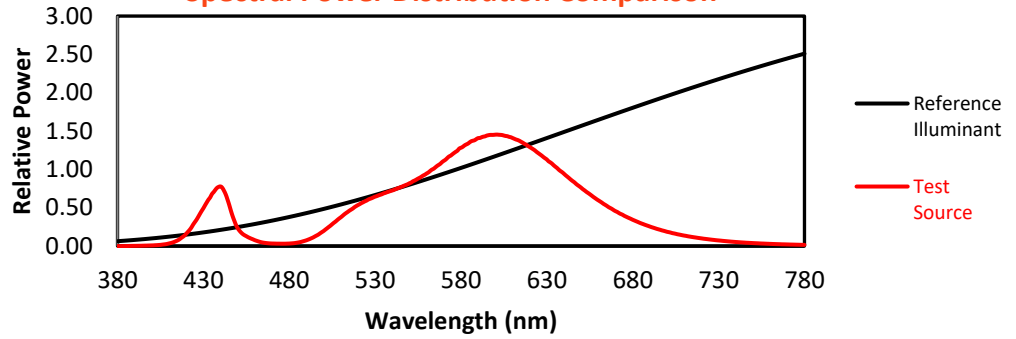
REPORT NUMBER: SP1-2407-184-3

TM-30-18

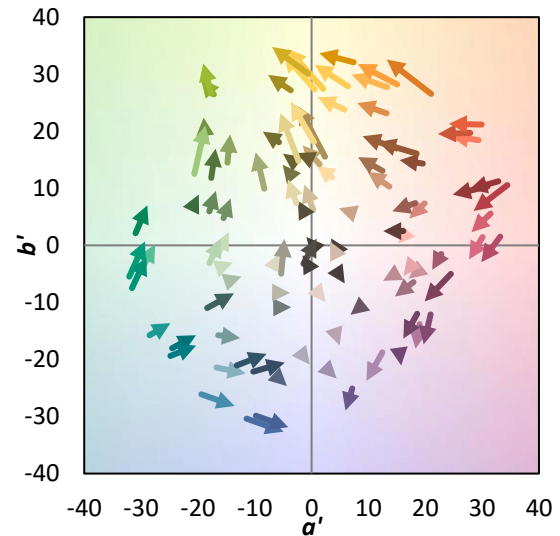
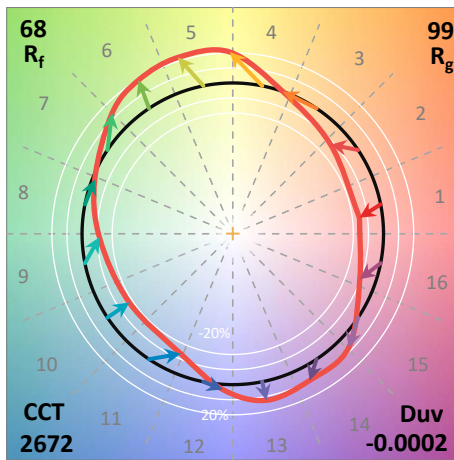
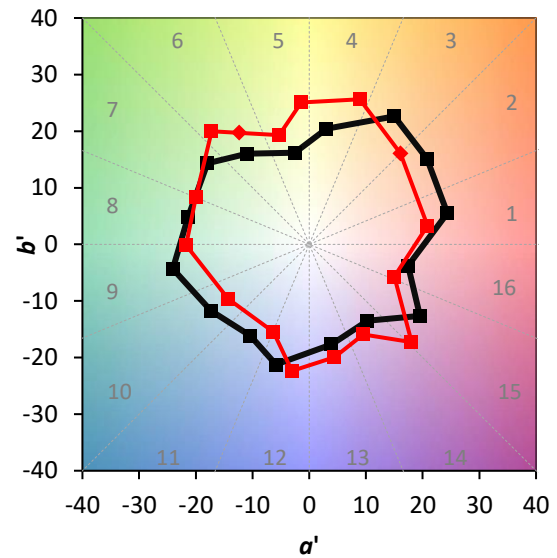
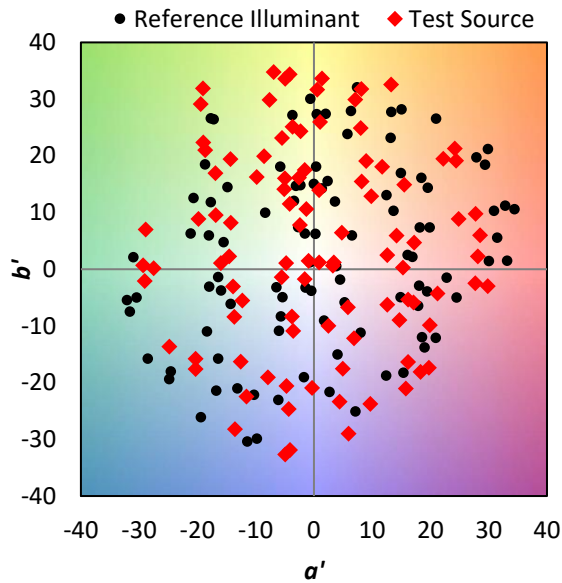
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE\ R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

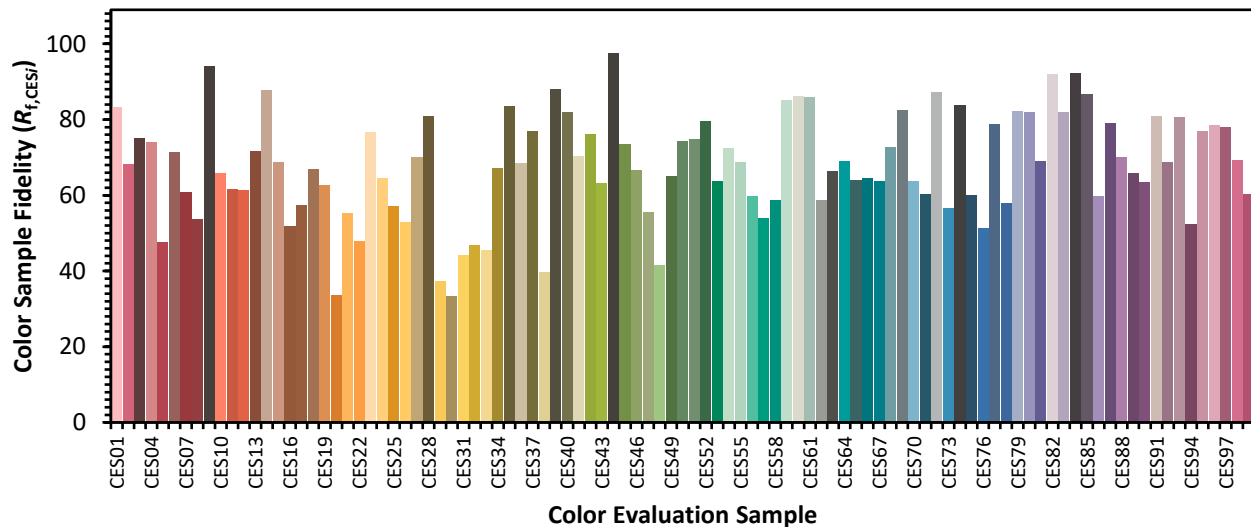


Color Vector Graphics

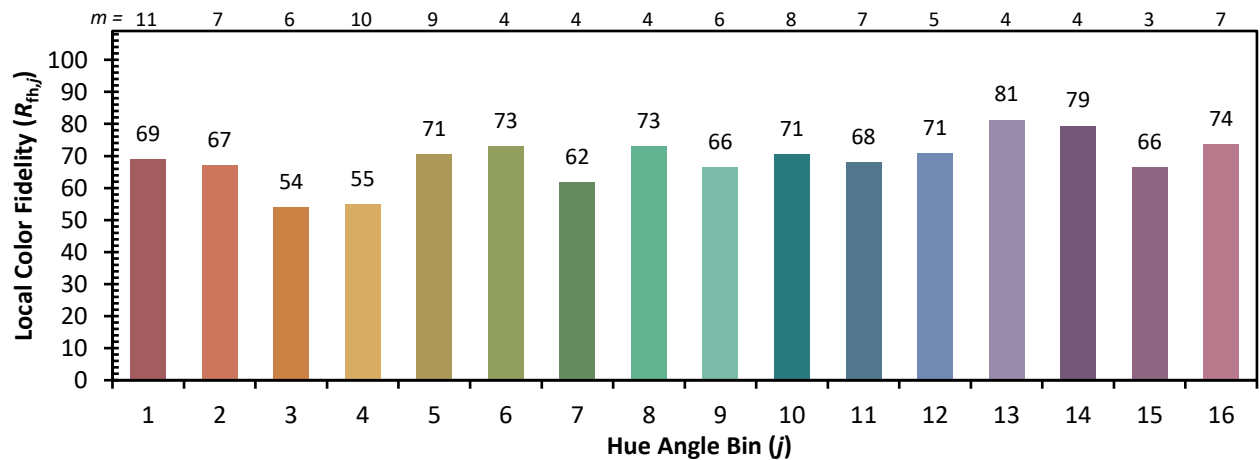
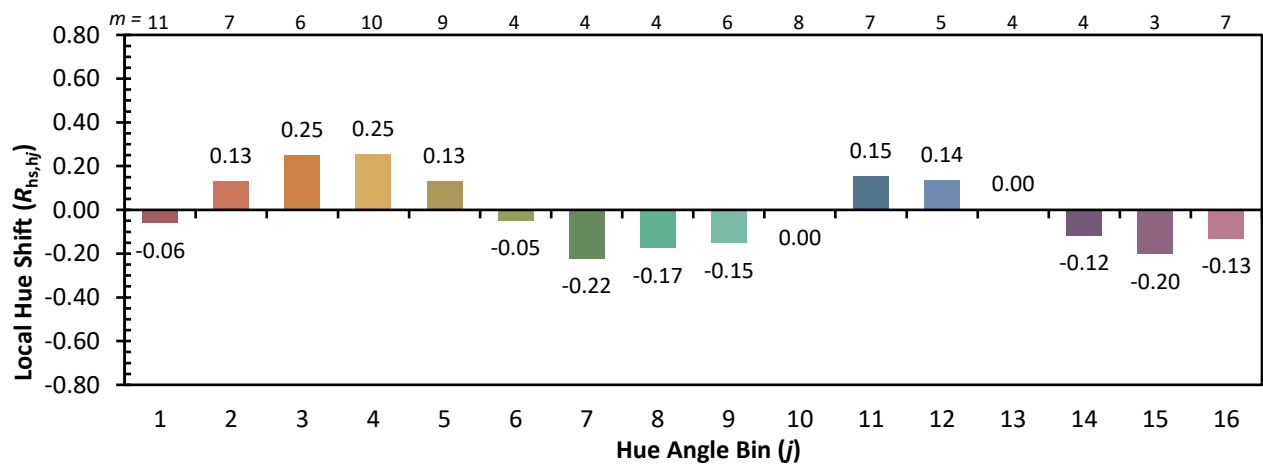
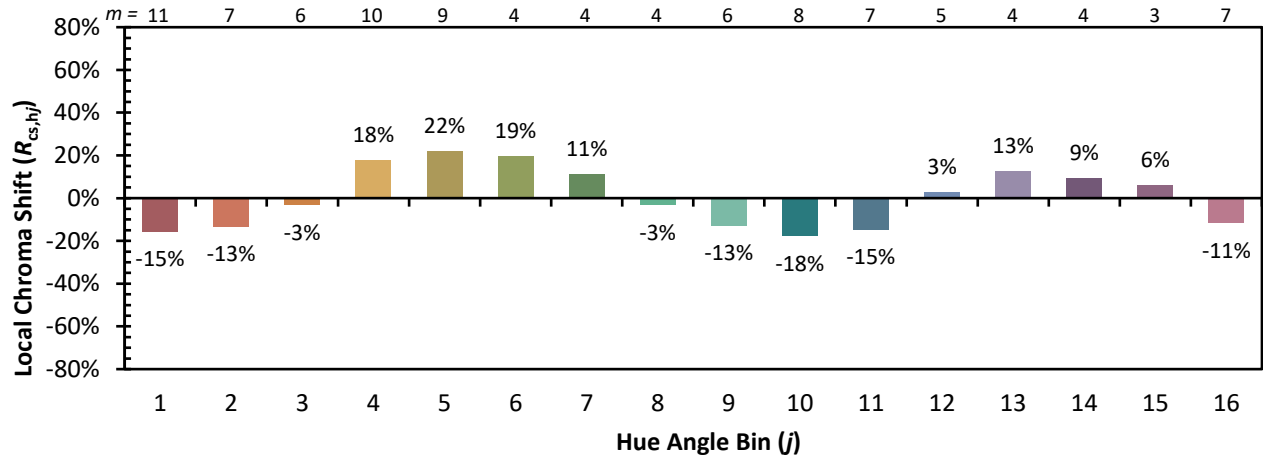


Individual Sample Fidelity Index ($R_{f,i}$)

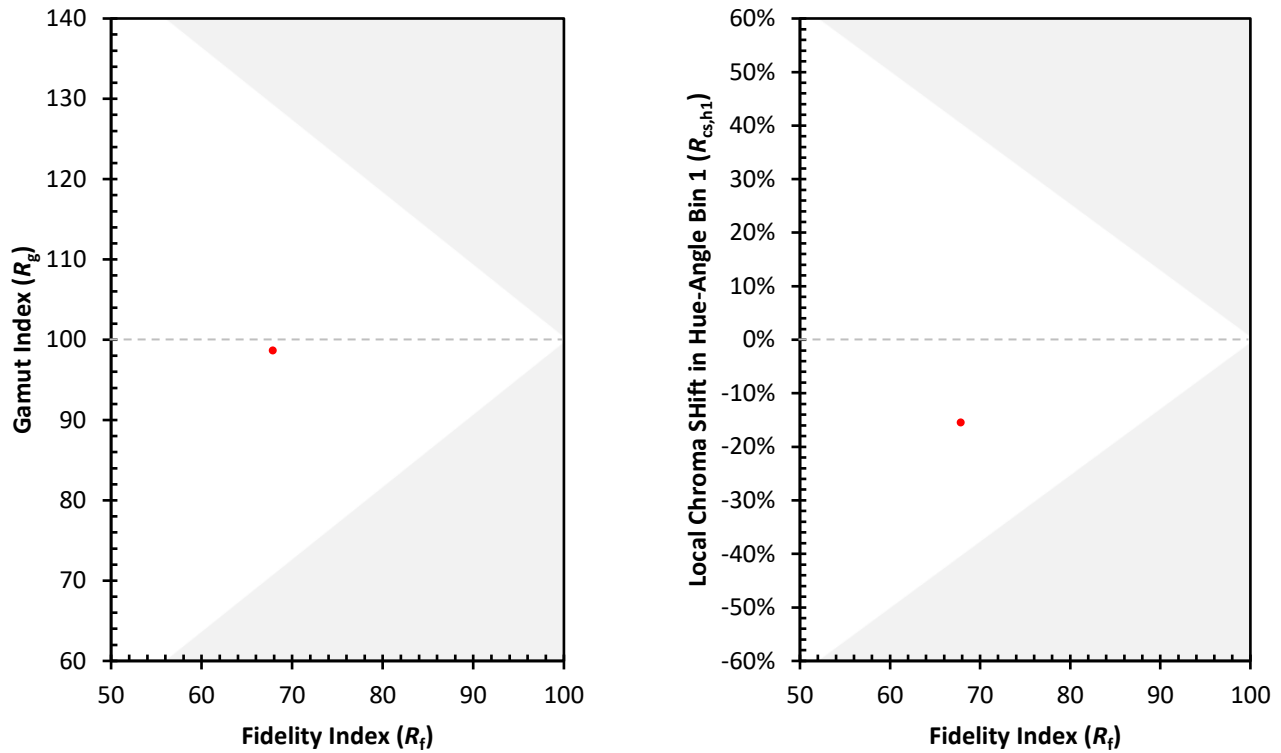
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)