

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: P1065109

Luminaire Tested: **GLAN-SA4A-740-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065109
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13289.9 lumens
Efficiency: N/A
Efficacy: 123.7 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

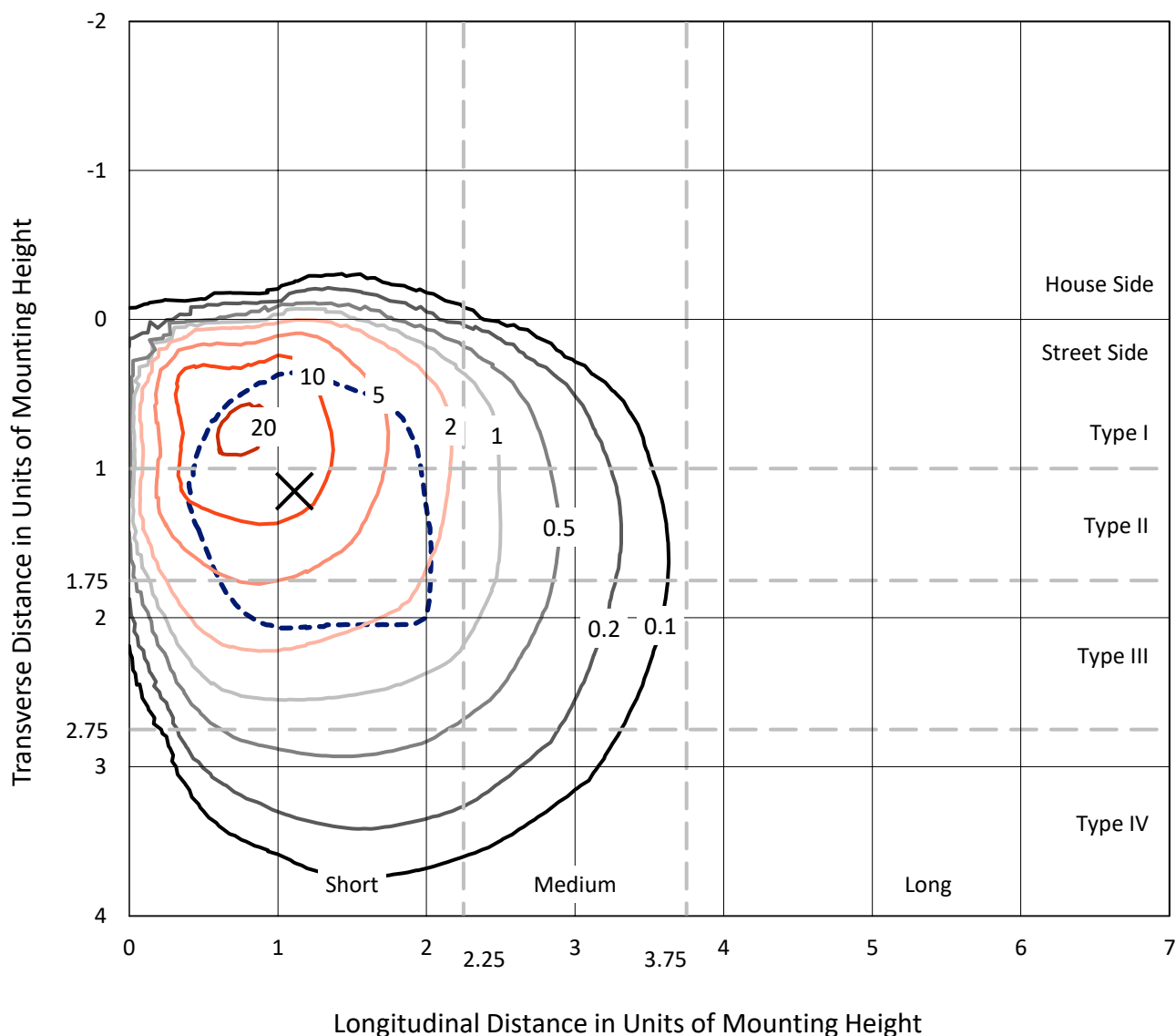
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

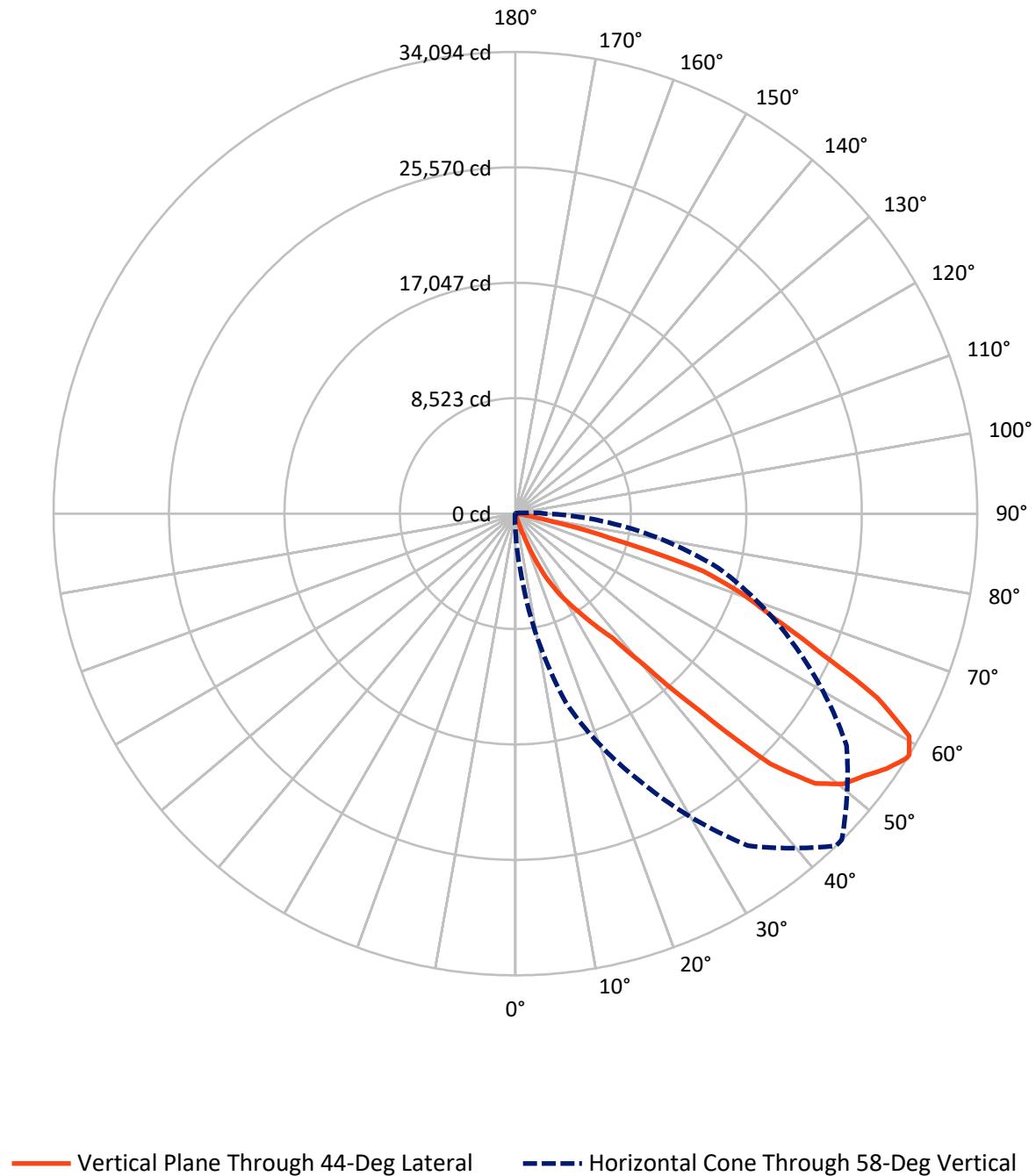


Based on 20 foot mounting height. Maximum calculated value = 23.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	90.7	0.0	90.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	13199.1	0.0	13199.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	13289.9	0.0	13289.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.0
10°-20°	29.1	0.2
20°-30°	314.8	2.4
30°-40°	931.1	7.0
40°-50°	2775.1	20.9
50°-60°	4403.5	33.1
60°-70°	3673.0	27.6
70°-80°	1132.8	8.5
80°-90°	25.2	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°	13289.9	100.0
0°-180°	13289.9	100.0



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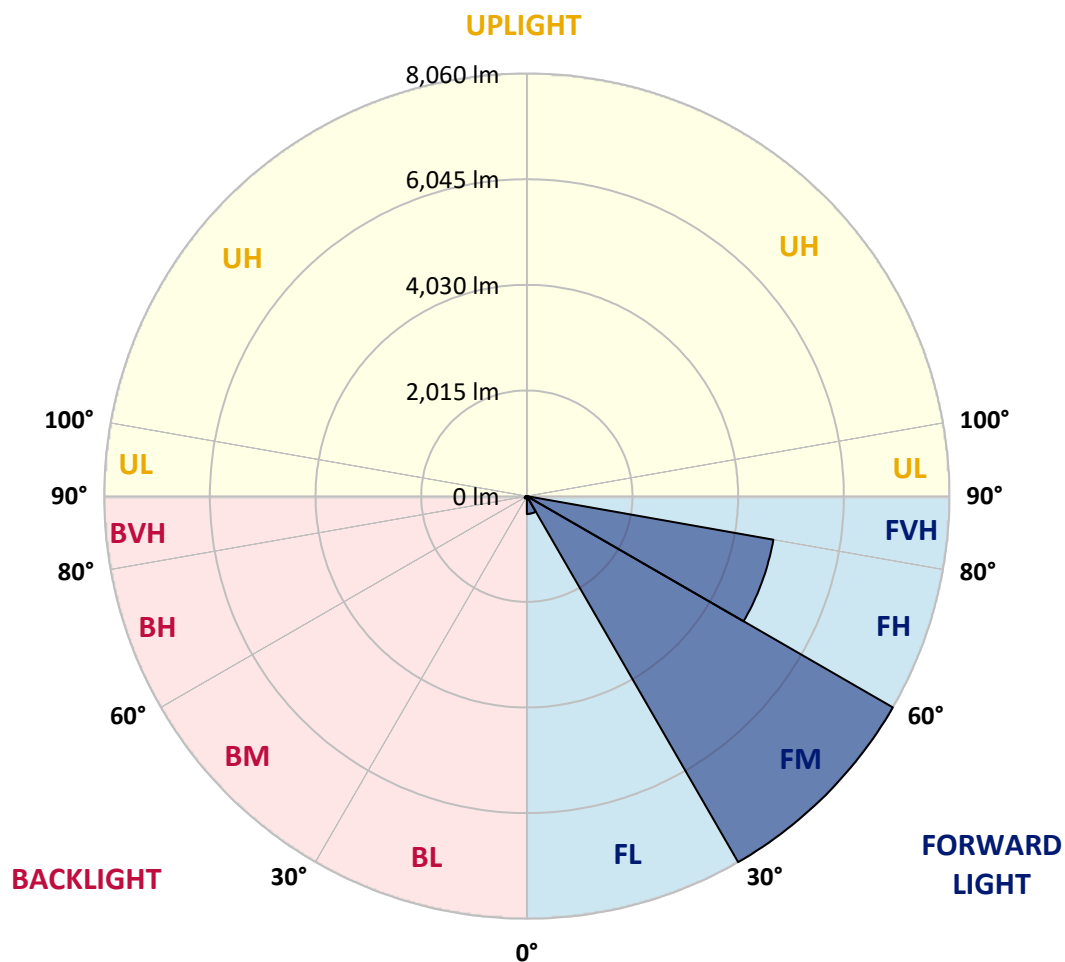
CATALOG NUMBER: GLAN-SA4A-740-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	340.3	2.6			
FM	(30°-60°)	8060.0	60.6			
FH	(60°-80°)	4774.9	35.9			G2/5000
FVH	(80°-90°)	23.9	0.2			G1/100
BL	(0°-30°)	8.9	0.1	B0/110		
BM	(30°-60°)	49.7	0.4	B0/220		
BH	(60°-80°)	31.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.2	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°	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
2.5°	75.3	75.3	72.3	68.3	64.3	60.2	59.2	57.2	56.2	55.2
5°	78.3	78.3	77.3	74.3	70.3	67.3	67.3	64.3	62.2	60.2
7.5°	80.3	81.3	83.3	82.3	80.3	77.3	77.3	75.3	72.3	67.3
10°	83.3	86.3	90.4	92.4	93.4	93.4	92.4	91.4	86.3	79.3
12.5°	86.3	92.4	102.4	112.4	118.5	126.5	125.5	123.5	110.4	95.4
15°	92.4	101.4	122.5	151.6	196.8	224.9	235.9	225.9	182.7	128.5
17.5°	99.4	114.4	177.7	317.2	520.0	616.4	674.6	627.5	415.6	244.0
20°	106.4	139.5	330.3	822.2	1349.3	1664.5	1751.9	1615.3	1037.1	464.8
22.5°	118.5	195.8	669.6	1699.7	2907.4	3380.3	3469.6	3032.9	1958.7	917.6
25°	143.6	284.1	1154.5	2769.9	4339.0	5137.1	5100.0	4527.8	3177.5	1465.7
27.5°	179.7	413.6	1745.8	3935.4	5710.4	6414.2	6498.5	5790.7	4235.6	2155.5
30°	231.9	573.2	2380.3	4869.1	6809.7	7570.7	7584.7	6852.9	5182.3	2760.8
32.5°	282.1	723.8	2935.5	5771.6	7893.0	8727.2	8789.5	7888.9	5889.1	3391.3
35°	320.3	822.2	3497.7	6564.7	8985.2	10134.7	10130.7	9061.5	6726.4	3954.5
37.5°	323.3	920.6	4006.7	7375.9	10368.7	11655.7	11783.2	10604.6	7738.3	4651.2
40°	316.2	1031.0	4651.2	8640.9	12861.4	14836.2	14948.6	13462.8	9768.3	5843.9
42.5°	324.3	1222.8	5697.3	10977.0	17000.7	19836.8	20053.6	18491.5	13499.9	8277.5
45°	366.4	1583.2	7888.9	14885.4	22900.8	26358.4	26286.1	24036.3	17842.0	11982.0
47.5°	506.0	2465.7	11137.7	18689.3	26671.6	29750.7	29812.9	27063.1	20375.9	14830.2
50°	778.1	3772.8	13867.4	20700.2	28293.0	31382.1	31323.8	28146.4	21338.7	16232.7
52.5°	1012.0	4718.5	15236.8	21405.9	28500.8	32188.2	32184.2	28431.5	21488.3	16353.1
55°	1070.2	4789.8	15247.8	21444.1	28966.6	33243.4	33375.9	29133.3	21682.0	15827.1
57.5°	1047.1	4240.6	14611.3	21665.0	29795.9	34059.6	34066.6	29812.9	22174.0	15504.8
58°	1027.0	4154.3	14482.8	21790.5	29938.4	34093.7	34076.6	29844.0	22574.5	15492.8
60°	914.6	3607.1	13981.8	22110.7	29726.6	33393.0	33233.3	29164.4	22515.3	15369.3
62.5°	718.8	2814.0	13488.9	21740.3	27455.7	30000.7	30066.9	25820.3	20525.5	14649.5
65°	572.2	2097.2	12460.9	19069.8	22608.7	24636.6	24883.6	20996.3	17132.2	12404.6
67.5°	455.8	1515.9	10453.0	15182.5	17890.2	20561.6	20741.3	17628.1	13273.1	9504.3
70°	370.5	1025.0	7215.3	11103.5	14755.9	17759.6	17770.7	14644.4	9906.9	6227.4
72.5°	328.3	709.8	4188.4	8097.8	11964.9	14471.8	14179.6	11883.6	7613.9	3688.5
75°	284.1	470.8	2054.1	4950.4	7254.4	7303.6	7415.1	5512.6	3805.9	1753.9
77.5°	233.9	334.3	809.2	1352.3	2175.5	2784.9	2888.3	2188.6	1266.0	431.7
80°	160.6	158.6	217.9	414.6	622.4	780.1	727.9	563.2	331.3	165.6
82.5°	69.3	75.3	98.4	118.5	96.4	93.4	89.4	57.2	44.2	34.1
85°	22.1	20.1	21.1	21.1	17.1	13.1	13.1	6.0	0.0	0.0
87.5°	11.0	9.0	9.0	8.0	5.0	2.0	1.0	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
58.2	0°	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
54.2	2.5°	53.2	53.2	51.2	49.2	48.2	46.2	45.2	44.2	43.2	42.2
58.2	5°	56.2	55.2	52.2	49.2	46.2	43.2	41.2	39.2	37.1	36.1
64.3	7.5°	61.2	59.2	53.2	48.2	44.2	40.2	38.1	35.1	33.1	30.1
71.3	10°	67.3	63.2	55.2	49.2	43.2	38.1	35.1	32.1	29.1	25.1
81.3	12.5°	75.3	68.3	58.2	48.2	41.2	35.1	32.1	28.1	25.1	22.1
94.4	15°	82.3	73.3	59.2	48.2	39.2	32.1	28.1	24.1	21.1	17.1
118.5	17.5°	92.4	77.3	58.2	45.2	36.1	28.1	24.1	21.1	16.1	10.0
175.7	20°	109.4	80.3	56.2	42.2	31.1	23.1	18.1	14.1	7.0	2.0
264.0	22.5°	136.5	88.3	54.2	38.1	27.1	18.1	12.0	5.0	0.0	0.0
401.6	25°	188.7	102.4	54.2	36.1	24.1	13.1	4.0	0.0	0.0	0.0
570.2	27.5°	251.0	121.5	54.2	31.1	19.1	7.0	0.0	0.0	0.0	0.0
777.0	30°	314.2	142.6	54.2	27.1	15.1	1.0	0.0	0.0	0.0	0.0
956.8	32.5°	374.5	160.6	55.2	23.1	10.0	0.0	0.0	0.0	0.0	0.0
1205.7	35°	435.7	163.6	54.2	20.1	6.0	0.0	0.0	0.0	0.0	0.0
1510.9	37.5°	514.0	157.6	51.2	18.1	3.0	0.0	0.0	0.0	0.0	0.0
1987.8	40°	632.5	160.6	48.2	17.1	1.0	0.0	0.0	0.0	0.0	0.0
2838.1	42.5°	851.3	173.7	44.2	17.1	0.0	0.0	0.0	0.0	0.0	0.0
4520.7	45°	1471.8	232.9	40.2	18.1	0.0	0.0	0.0	0.0	0.0	0.0
6786.6	47.5°	2434.5	418.6	39.2	18.1	0.0	0.0	0.0	0.0	0.0	0.0
8175.1	50°	3107.2	527.1	41.2	19.1	0.0	0.0	0.0	0.0	0.0	0.0
8348.7	52.5°	3102.2	587.3	43.2	20.1	4.0	0.0	0.0	0.0	0.0	0.0
7695.2	55°	2757.8	598.3	46.2	22.1	13.1	0.0	0.0	0.0	0.0	0.0
6612.9	57.5°	2305.0	546.1	53.2	27.1	24.1	0.0	0.0	0.0	0.0	0.0
6443.3	58°	2224.7	522.0	55.2	28.1	26.1	0.0	0.0	0.0	0.0	0.0
5588.9	60°	1823.1	425.7	70.3	35.1	35.1	0.0	0.0	0.0	0.0	0.0
4582.0	62.5°	1258.9	371.5	80.3	45.2	36.1	0.0	0.0	0.0	0.0	0.0
3378.2	65°	890.5	335.3	87.3	48.2	29.1	0.0	0.0	0.0	0.0	0.0
2400.4	67.5°	665.6	309.2	96.4	49.2	15.1	0.0	0.0	0.0	0.0	0.0
1505.9	70°	510.0	290.1	118.5	52.2	4.0	0.0	0.0	0.0	0.0	0.0
897.5	72.5°	415.6	268.1	143.6	54.2	0.0	0.0	0.0	0.0	0.0	0.0
538.1	75°	344.4	241.9	138.5	59.2	0.0	0.0	0.0	0.0	0.0	0.0
287.1	77.5°	228.9	187.7	126.5	59.2	0.0	0.0	0.0	0.0	0.0	0.0
102.4	80°	80.3	74.3	98.4	52.2	0.0	0.0	0.0	0.0	0.0	0.0
21.1	82.5°	12.0	10.0	14.1	18.1	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°
58.2	0°	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
41.2	2.5°	41.2	41.2	40.2	41.2	41.2	43.2	48.2	55.2	63.2	66.3
35.1	5°	34.1	33.1	32.1	32.1	32.1	35.1	39.2	47.2	56.2	60.2
29.1	7.5°	28.1	27.1	26.1	25.1	25.1	27.1	32.1	41.2	50.2	54.2
24.1	10°	23.1	21.1	20.1	19.1	19.1	21.1	26.1	35.1	45.2	49.2
20.1	12.5°	19.1	16.1	14.1	13.1	12.0	15.1	20.1	28.1	39.2	44.2
15.1	15°	13.1	10.0	7.0	6.0	5.0	8.0	13.1	22.1	33.1	39.2
8.0	17.5°	7.0	3.0	1.0	0.0	0.0	2.0	6.0	16.1	27.1	32.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	20.1	25.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	12.0	17.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	9.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
58.2	0°	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
69.3	2.5°	71.3	70.3	68.3	66.3	66.3	66.3	69.3	72.3	75.3	75.3
62.2	5°	66.3	66.3	65.3	63.2	63.2	64.3	68.3	73.3	77.3	78.3
57.2	7.5°	61.2	63.2	61.2	60.2	61.2	62.2	66.3	72.3	78.3	80.3
53.2	10°	58.2	59.2	59.2	58.2	58.2	60.2	64.3	72.3	80.3	83.3
48.2	12.5°	54.2	56.2	55.2	55.2	55.2	57.2	62.2	71.3	82.3	86.3
43.2	15°	50.2	53.2	53.2	52.2	52.2	53.2	60.2	70.3	85.3	92.4
37.1	17.5°	46.2	49.2	50.2	48.2	48.2	50.2	57.2	70.3	87.3	99.4
30.1	20°	38.1	43.2	46.2	43.2	43.2	45.2	52.2	66.3	88.3	106.4
22.1	22.5°	30.1	35.1	39.2	38.1	38.1	39.2	48.2	63.2	89.4	118.5
13.1	25°	22.1	27.1	30.1	32.1	32.1	35.1	44.2	61.2	93.4	143.6
6.0	27.5°	13.1	19.1	23.1	25.1	26.1	30.1	41.2	59.2	100.4	179.7
0.0	30°	6.0	11.0	16.1	20.1	20.1	27.1	38.1	57.2	109.4	231.9
0.0	32.5°	0.0	5.0	8.0	14.1	15.1	22.1	35.1	55.2	122.5	282.1
0.0	35°	0.0	0.0	4.0	11.0	11.0	18.1	32.1	53.2	142.6	320.3
0.0	37.5°	0.0	0.0	0.0	8.0	9.0	16.1	31.1	52.2	146.6	323.3
0.0	40°	0.0	0.0	0.0	6.0	7.0	15.1	31.1	53.2	132.5	316.2
0.0	42.5°	0.0	0.0	0.0	4.0	5.0	15.1	31.1	55.2	119.5	324.3
0.0	45°	0.0	0.0	0.0	3.0	4.0	16.1	30.1	54.2	112.4	366.4
0.0	47.5°	0.0	0.0	0.0	4.0	6.0	16.1	29.1	53.2	113.4	506.0
0.0	50°	0.0	0.0	0.0	5.0	7.0	16.1	30.1	51.2	124.5	778.1
0.0	52.5°	0.0	0.0	0.0	4.0	6.0	18.1	33.1	50.2	135.5	1012.0
0.0	55°	0.0	0.0	0.0	1.0	3.0	23.1	36.1	50.2	152.6	1070.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	26.1	41.2	53.2	180.7	1047.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	26.1	42.2	53.2	182.7	1027.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	26.1	46.2	59.2	196.8	914.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	22.1	55.2	74.3	204.8	718.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	18.1	65.3	81.3	210.8	572.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	17.1	67.3	82.3	213.8	455.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	18.1	66.3	88.3	223.9	370.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	20.1	60.2	97.4	223.9	328.3
0.0	75°	0.0	0.0	0.0	0.0	0.0	21.1	56.2	109.4	203.8	284.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	20.1	55.2	127.5	181.7	233.9
0.0	80°	2.0	3.0	3.0	2.0	2.0	17.1	54.2	129.5	154.6	160.6
1.0	82.5°	6.0	8.0	7.0	5.0	5.0	15.1	48.2	108.4	80.3	69.3
6.0	85°	11.0	13.1	13.1	11.0	11.0	14.1	30.1	39.2	27.1	22.1
11.0	87.5°	15.1	17.1	17.1	15.1	15.1	14.1	13.1	12.0	11.0	11.0
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

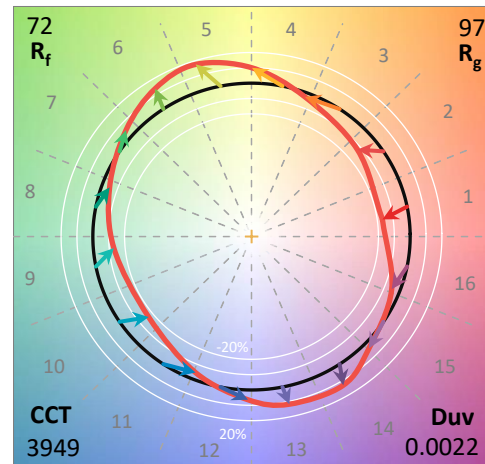
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

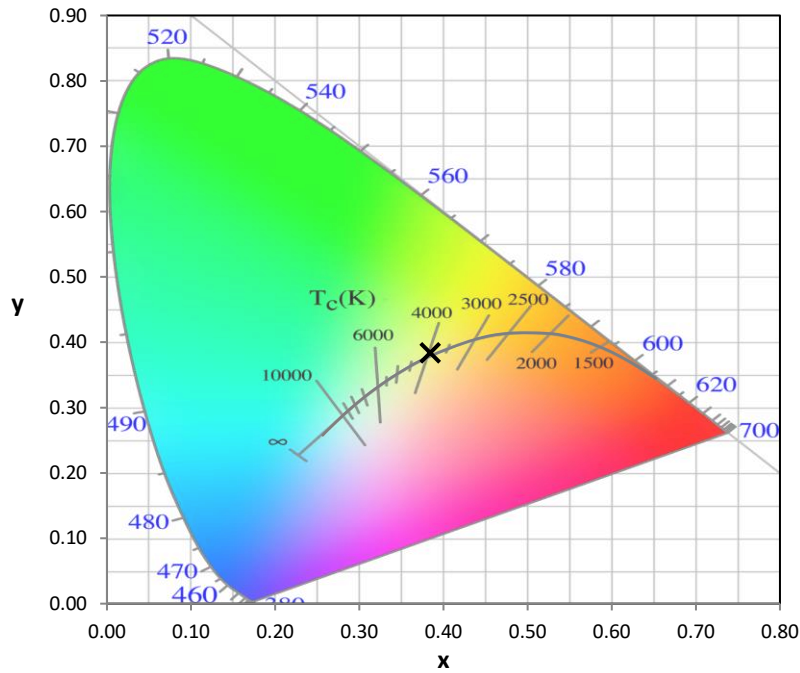
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

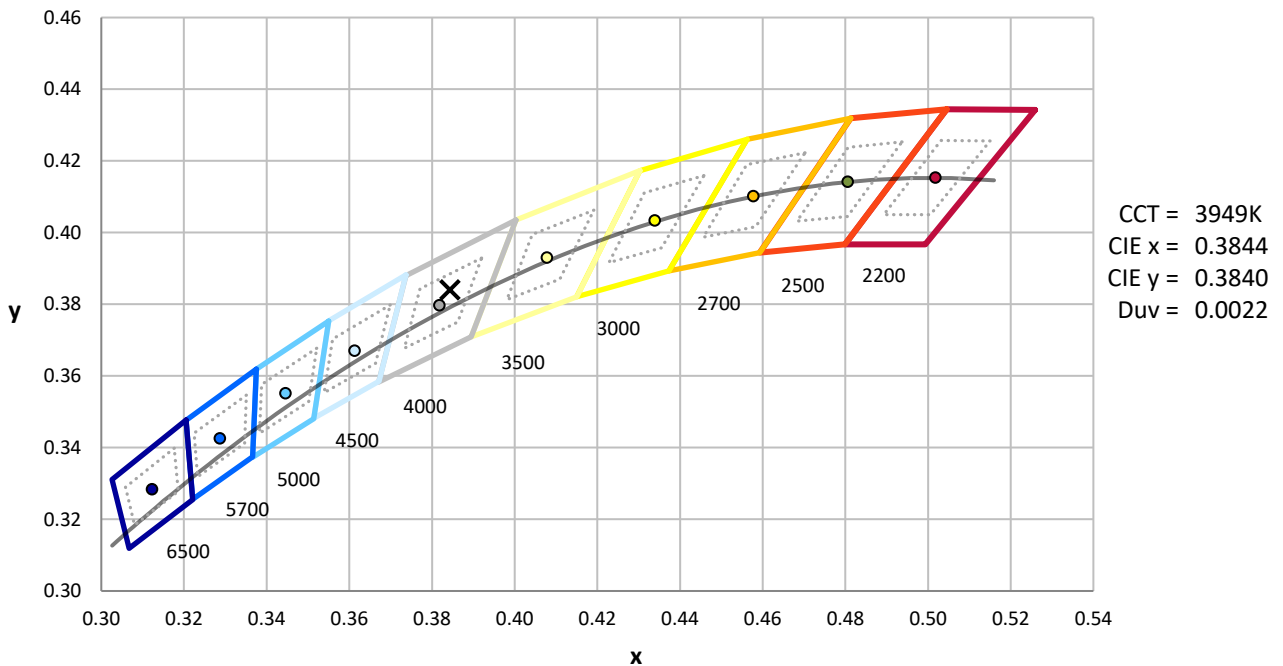
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



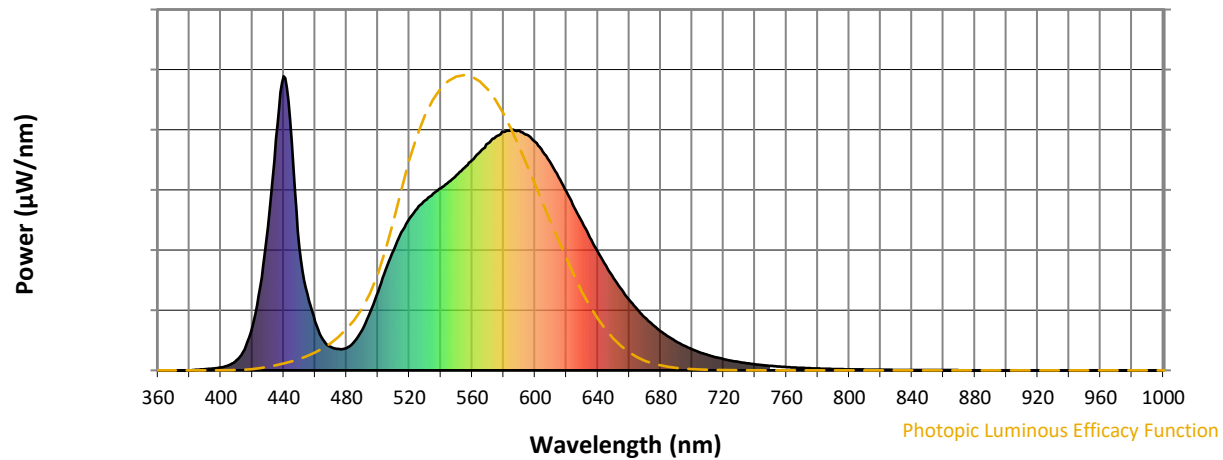
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

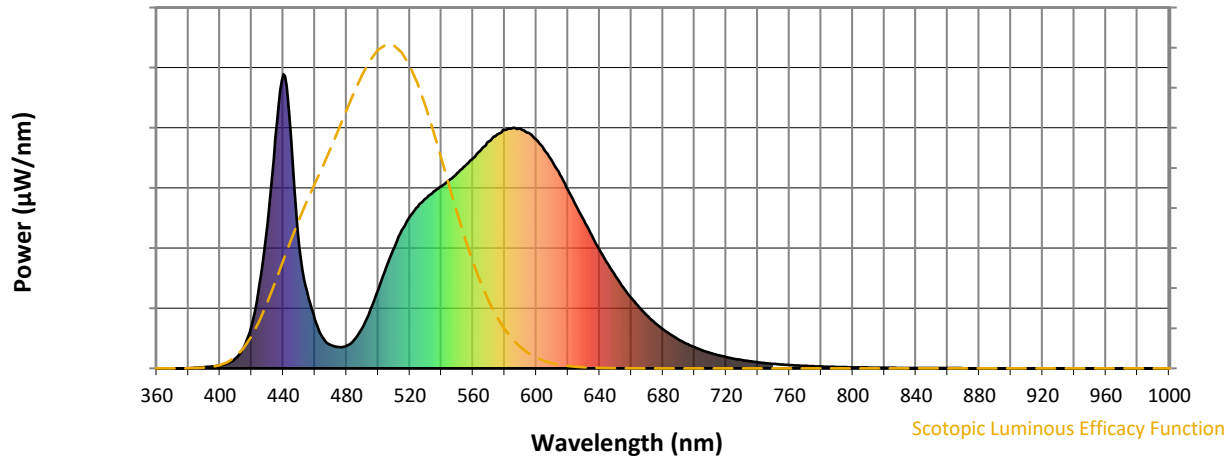


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



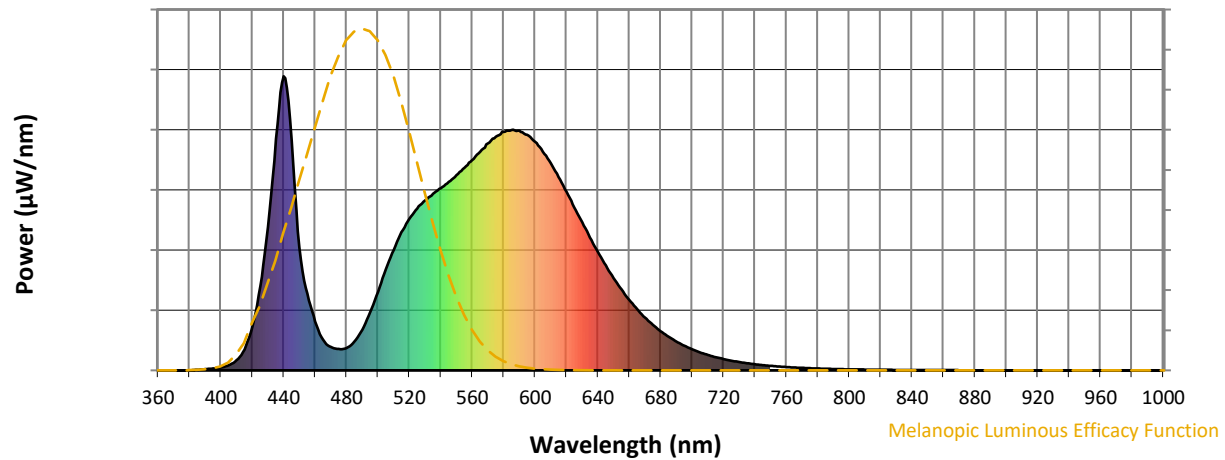
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.78

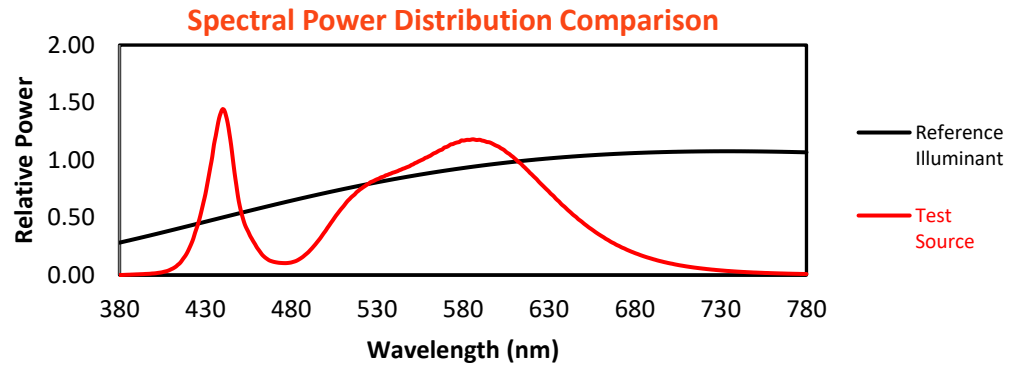
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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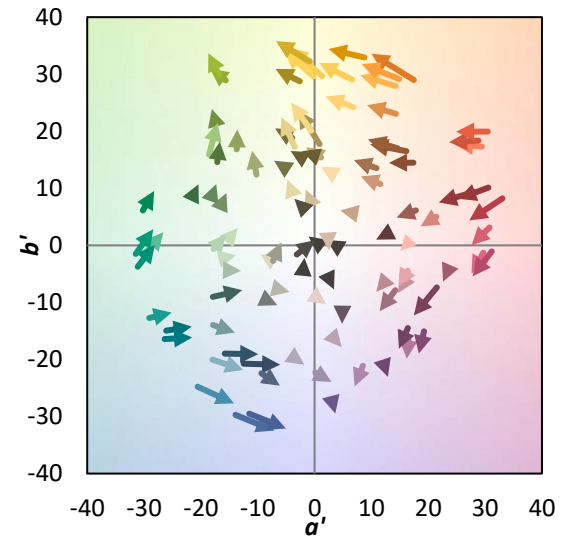
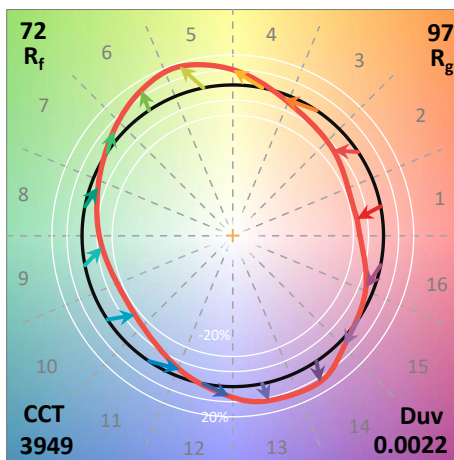
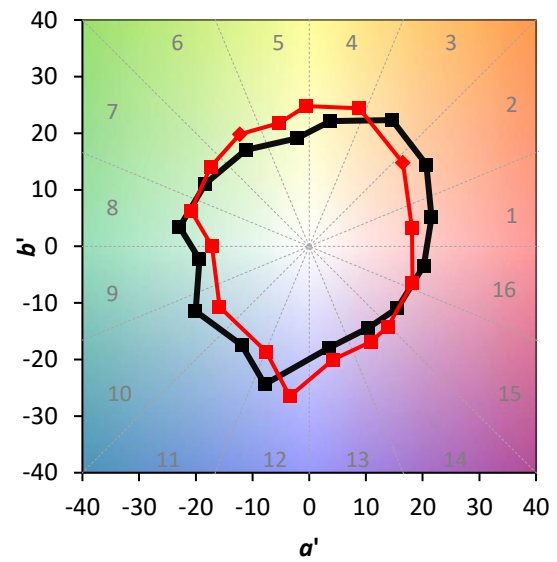
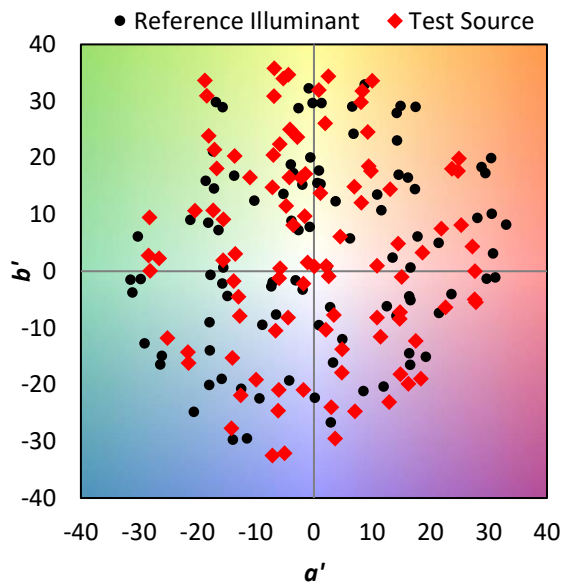
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 $CIE R_a = 70.7$
 $R_g = -36.7$

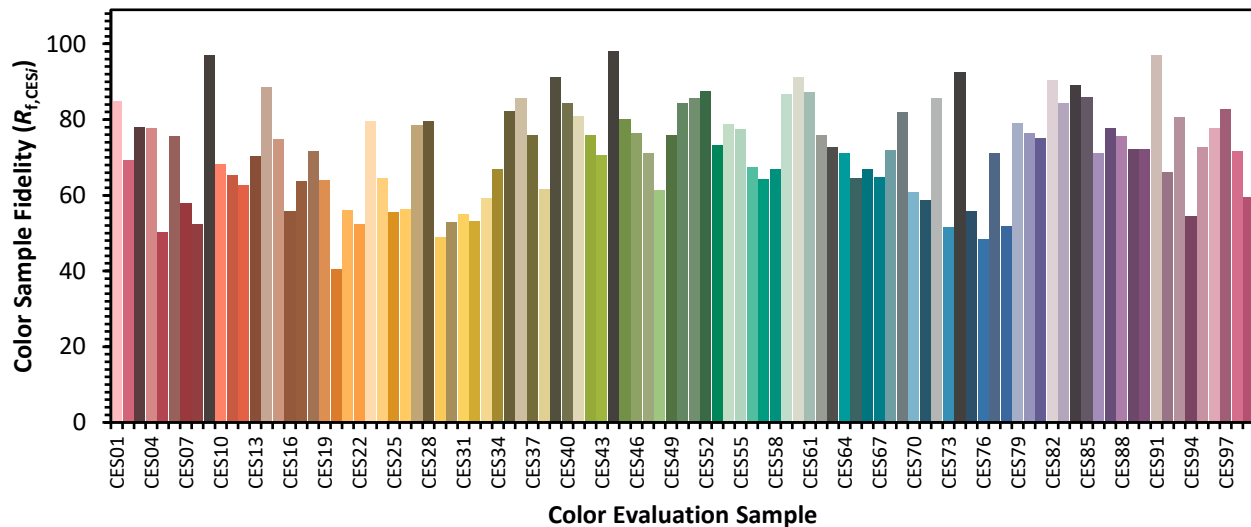


Color Vector Graphics

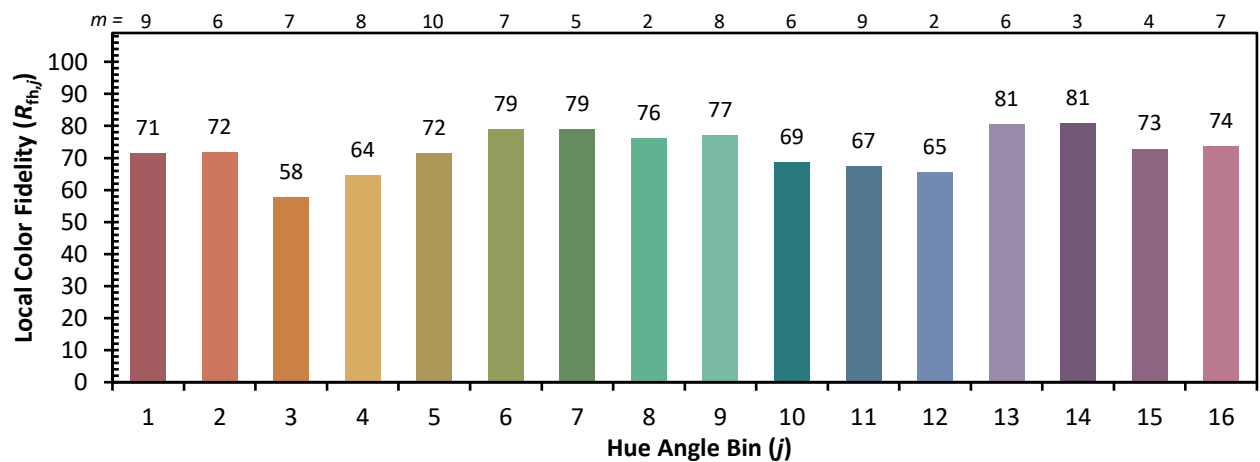
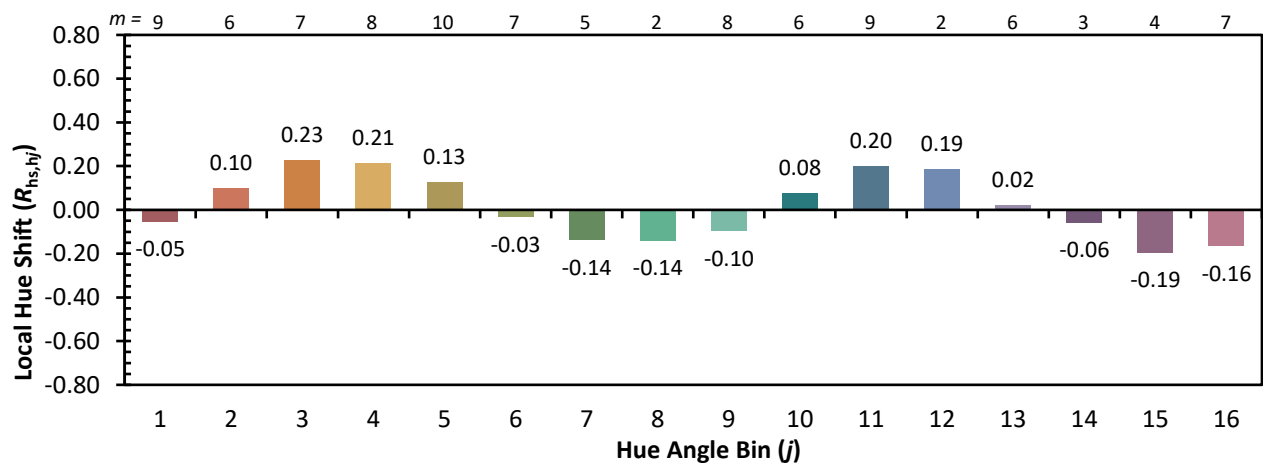
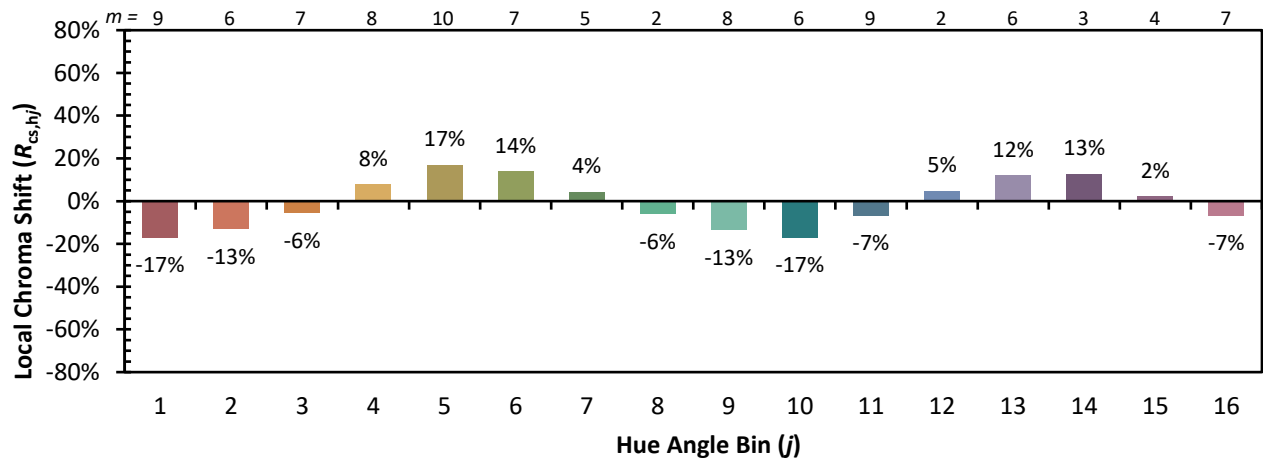


Individual Sample Fidelity Index ($R_{f,i}$)

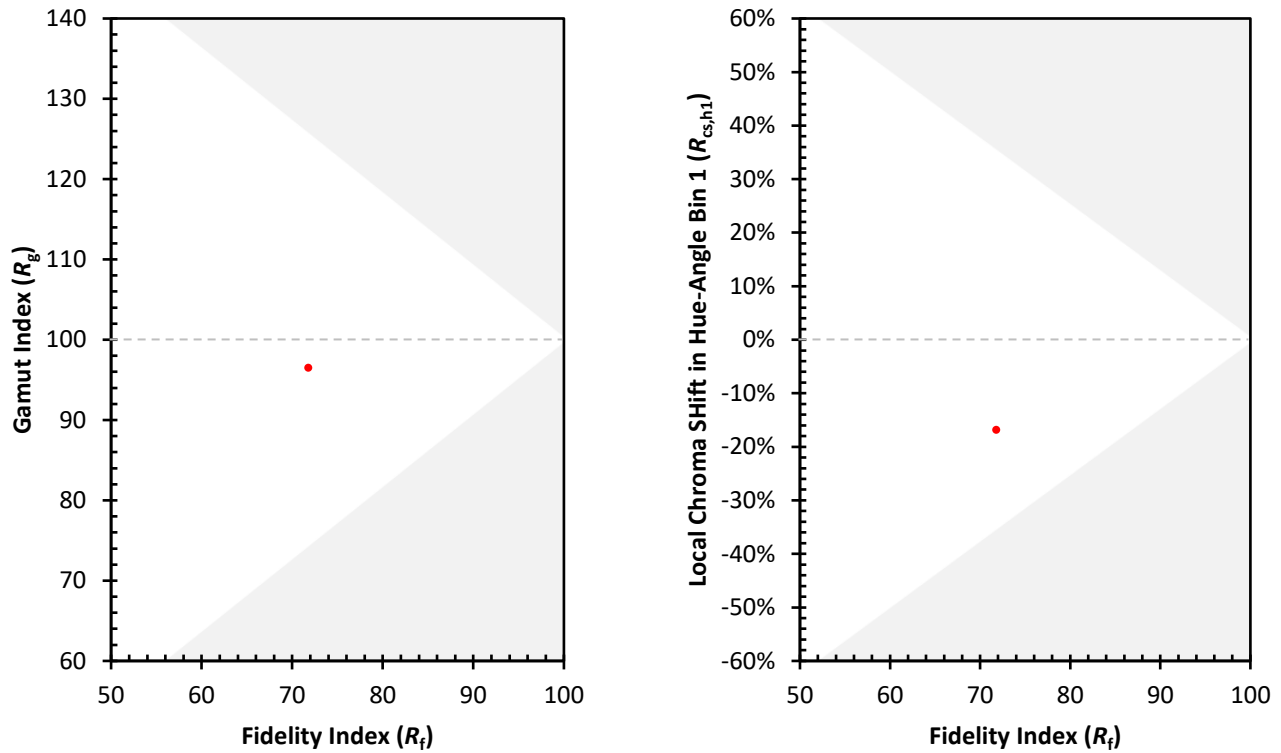
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)