

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: P1049585

Luminaire Tested: **GALN-SA5A-730-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049585
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15756.9 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

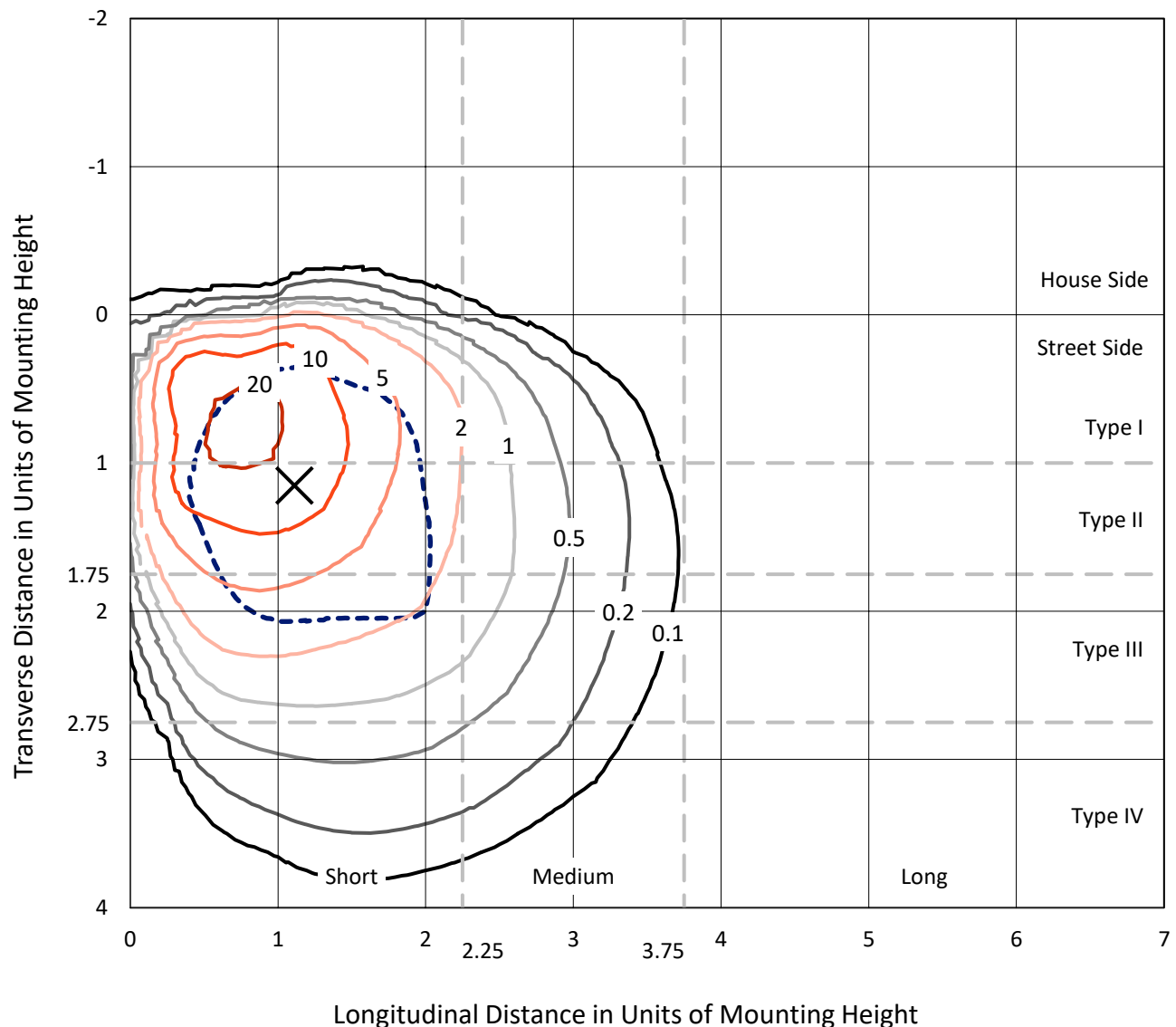
Input Watts (W): 136.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

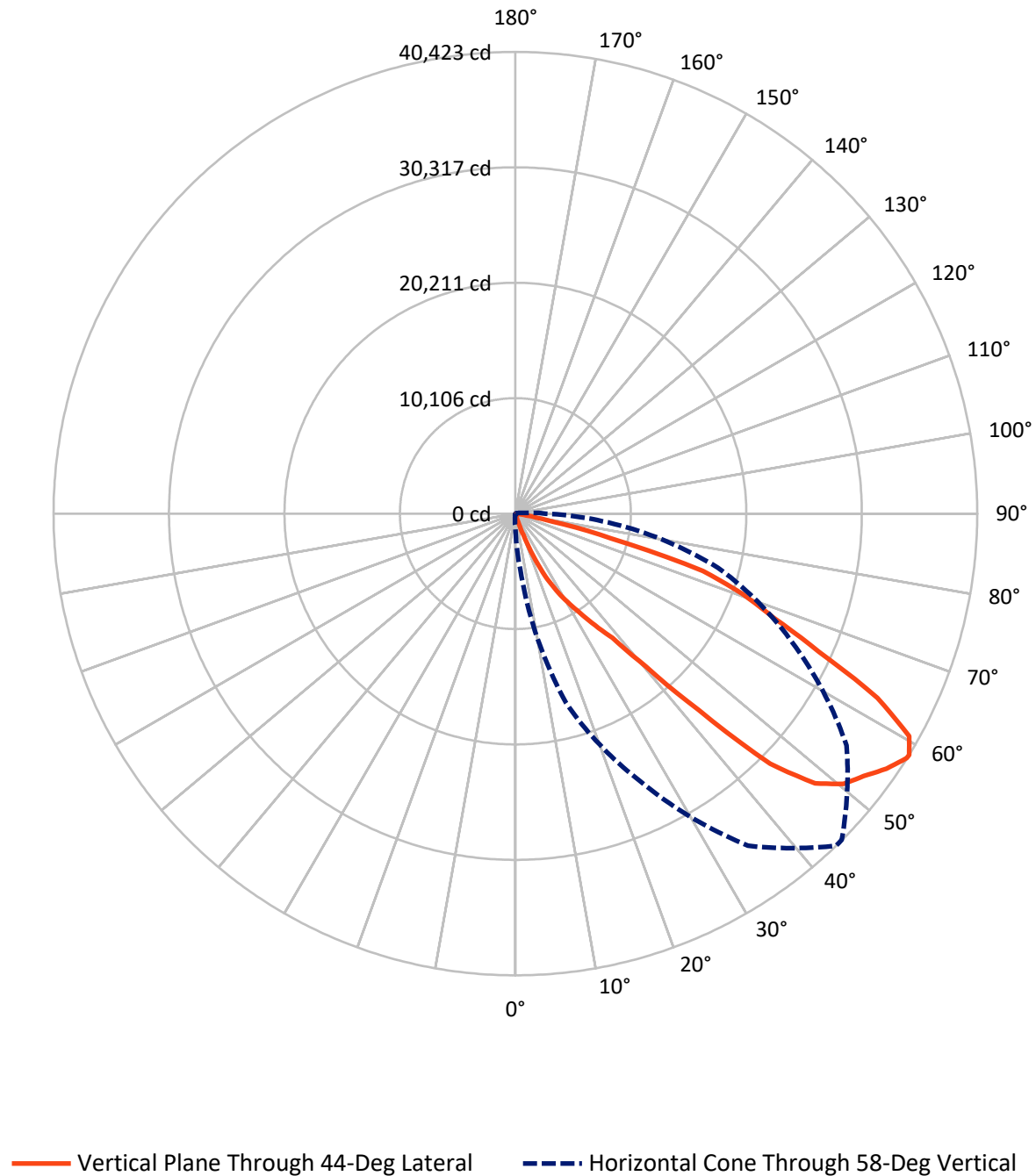
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27.4 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	107.6	0.0	107.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	15649.3	0.0	15649.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	15756.9	0.0	15756.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.0
10°-20°	34.6	0.2
20°-30°	373.3	2.4
30°-40°	1103.9	7.0
40°-50°	3290.3	20.9
50°-60°	5220.9	33.1
60°-70°	4354.9	27.6
70°-80°	1343.1	8.5
80°-90°	29.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15756.9	100.0
0°-180°	15756.9	100.0

Coefficient of Utilization



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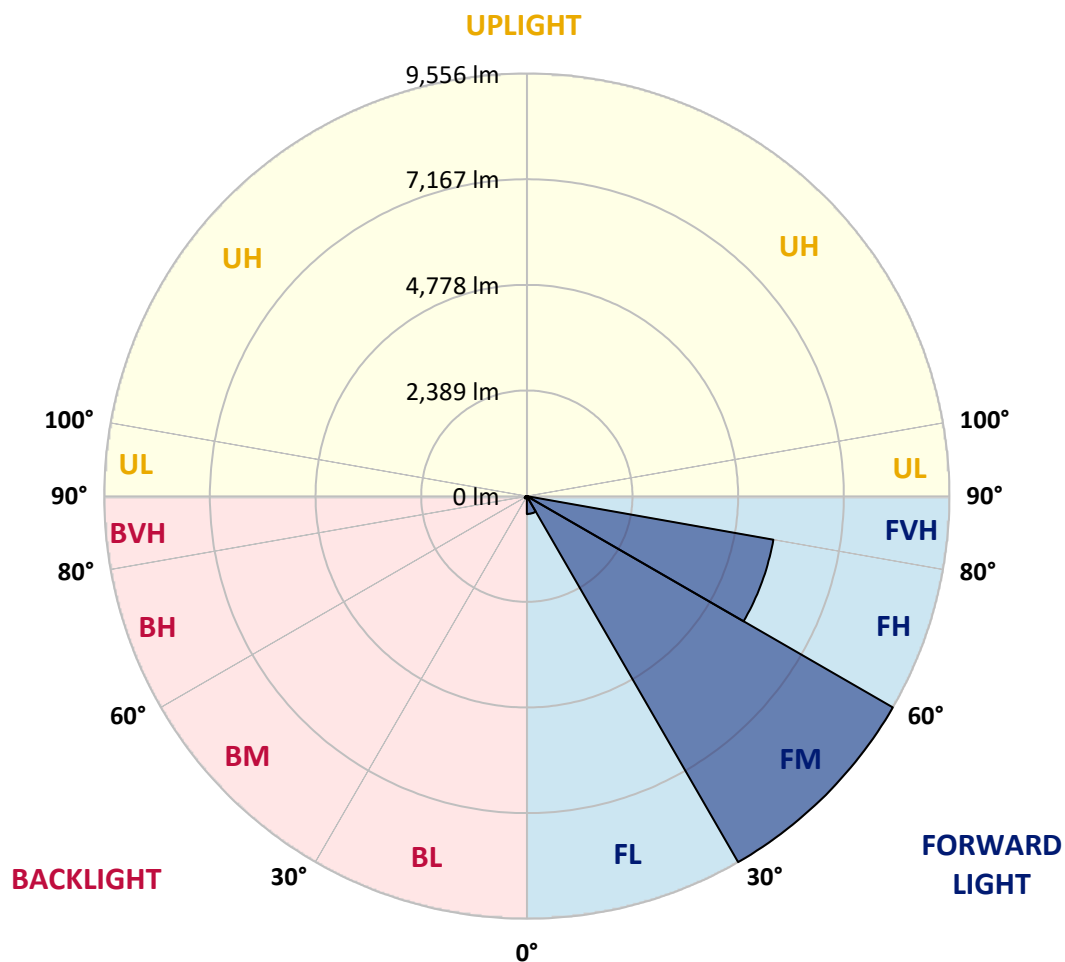
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	403.5	2.6			
FM	(30°-60°)	9556.3	60.6			
FH	(60°-80°)	5661.2	35.9			G3/7500
FVH	(80°-90°)	28.4	0.2			G1/100
BL	(0°-30°)	10.5	0.1	B0/110		
BM	(30°-60°)	58.9	0.4	B0/220		
BH	(60°-80°)	36.7	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
2.5°	89.3	89.3	85.7	80.9	76.2	71.4	70.2	67.8	66.7	65.5
5°	92.8	92.8	91.7	88.1	83.3	79.8	79.8	76.2	73.8	71.4
7.5°	95.2	96.4	98.8	97.6	95.2	91.7	91.7	89.3	85.7	79.8
10°	98.8	102.4	107.1	109.5	110.7	110.7	109.5	108.3	102.4	94.0
12.5°	102.4	109.5	121.4	133.3	140.5	150.0	148.8	146.4	130.9	113.1
15°	109.5	120.2	145.2	179.7	233.3	266.6	279.7	267.8	216.6	152.4
17.5°	117.8	135.7	210.7	376.1	616.6	730.8	799.9	743.9	492.8	289.2
20°	126.2	165.5	391.6	974.9	1599.8	1973.5	2077.1	1915.2	1229.6	551.1
22.5°	140.5	232.1	793.9	2015.2	3447.1	4007.7	4113.7	3595.9	2322.3	1087.9
25°	170.2	336.9	1368.8	3284.0	5144.5	6090.8	6046.7	5368.3	3767.3	1737.8
27.5°	213.1	490.4	2069.9	4666.0	6770.4	7604.8	7704.8	6865.7	5021.9	2555.6
30°	275.0	679.7	2822.2	5773.0	8073.8	8976.1	8992.7	8125.0	6144.3	3273.3
32.5°	334.5	858.2	3480.4	6843.0	9358.2	10347.3	10421.1	9353.4	6982.3	4020.8
35°	379.7	974.9	4147.0	7783.4	10653.2	12016.1	12011.3	10743.7	7975.0	4688.6
37.5°	383.3	1091.5	4750.5	8745.2	12293.4	13819.4	13970.6	12573.2	9174.9	5514.7
40°	374.9	1222.4	5514.7	10244.9	15249.0	17590.3	17723.6	15962.0	11581.6	6928.8
42.5°	384.5	1449.8	6755.0	13014.8	20156.6	23519.2	23776.3	21924.2	16006.0	9814.0
45°	434.5	1877.1	9353.4	17648.6	27152.0	31251.4	31165.7	28498.2	21154.1	14206.3
47.5°	599.9	2923.4	13205.2	22158.7	31622.8	35273.4	35347.2	32087.0	24158.4	17583.1
50°	922.5	4473.2	16441.6	24542.8	33545.1	37207.7	37138.6	33371.3	25299.9	19246.0
52.5°	1199.8	5594.4	18065.2	25379.6	33791.5	38163.5	38158.7	33709.4	25477.2	19388.8
55°	1268.9	5678.9	18078.3	25424.9	34343.8	39414.5	39571.6	34541.4	25707.0	18765.1
57.5°	1241.5	5027.8	17323.7	25686.7	35327.0	40382.2	40390.5	35347.2	26290.2	18383.0
58°	1217.7	4925.5	17171.3	25835.5	35496.0	40422.7	40402.4	35384.1	26765.1	18368.7
60°	1084.4	4276.8	16577.3	26215.2	35244.9	39591.8	39402.6	34578.3	26694.9	18222.3
62.5°	852.3	3336.4	15992.9	25776.0	32552.4	35569.8	35648.4	30613.4	24335.7	17368.9
65°	678.5	2486.5	14774.0	22609.8	26805.6	29210.0	29502.8	24894.0	20312.5	14707.4
67.5°	540.4	1797.4	12393.4	18000.9	21211.2	24378.6	24591.7	20900.5	15737.0	11268.6
70°	439.2	1215.3	8554.7	13164.7	17495.1	21056.5	21069.5	17362.9	11745.9	7383.4
72.5°	389.2	841.5	4965.9	9601.0	14186.0	17158.2	16811.8	14089.6	9027.3	4373.2
75°	336.9	558.3	2435.4	5869.4	8601.1	8659.5	8791.6	6536.0	4512.4	2079.5
77.5°	277.3	396.4	959.4	1603.3	2579.4	3301.9	3424.5	2594.9	1501.0	511.8
80°	190.4	188.1	258.3	491.6	738.0	924.9	863.0	667.8	392.8	196.4
82.5°	82.1	89.3	116.6	140.5	114.3	110.7	105.9	67.8	52.4	40.5
85°	26.2	23.8	25.0	25.0	20.2	15.5	15.5	7.1	0.0	0.0
87.5°	13.1	10.7	10.7	9.5	6.0	2.4	1.2	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°
69.0	0°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
64.3	2.5°	63.1	63.1	60.7	58.3	57.1	54.8	53.6	52.4	51.2	50.0
69.0	5°	66.7	65.5	61.9	58.3	54.8	51.2	48.8	46.4	44.0	42.9
76.2	7.5°	72.6	70.2	63.1	57.1	52.4	47.6	45.2	41.7	39.3	35.7
84.5	10°	79.8	75.0	65.5	58.3	51.2	45.2	41.7	38.1	34.5	29.8
96.4	12.5°	89.3	80.9	69.0	57.1	48.8	41.7	38.1	33.3	29.8	26.2
111.9	15°	97.6	86.9	70.2	57.1	46.4	38.1	33.3	28.6	25.0	20.2
140.5	17.5°	109.5	91.7	69.0	53.6	42.9	33.3	28.6	25.0	19.0	11.9
208.3	20°	129.7	95.2	66.7	50.0	36.9	27.4	21.4	16.7	8.3	2.4
313.0	22.5°	161.9	104.7	64.3	45.2	32.1	21.4	14.3	6.0	0.0	0.0
476.1	25°	223.8	121.4	64.3	42.9	28.6	15.5	4.8	0.0	0.0	0.0
676.1	27.5°	297.6	144.0	64.3	36.9	22.6	8.3	0.0	0.0	0.0	0.0
921.3	30°	372.6	169.0	64.3	32.1	17.9	1.2	0.0	0.0	0.0	0.0
1134.4	32.5°	444.0	190.4	65.5	27.4	11.9	0.0	0.0	0.0	0.0	0.0
1429.6	35°	516.6	194.0	64.3	23.8	7.1	0.0	0.0	0.0	0.0	0.0
1791.4	37.5°	609.4	186.9	60.7	21.4	3.6	0.0	0.0	0.0	0.0	0.0
2356.8	40°	749.9	190.4	57.1	20.2	1.2	0.0	0.0	0.0	0.0	0.0
3365.0	42.5°	1009.4	205.9	52.4	20.2	0.0	0.0	0.0	0.0	0.0	0.0
5359.9	45°	1745.0	276.2	47.6	21.4	0.0	0.0	0.0	0.0	0.0	0.0
8046.4	47.5°	2886.5	496.4	46.4	21.4	0.0	0.0	0.0	0.0	0.0	0.0
9692.6	50°	3684.0	624.9	48.8	22.6	0.0	0.0	0.0	0.0	0.0	0.0
9898.6	52.5°	3678.0	696.3	51.2	23.8	4.8	0.0	0.0	0.0	0.0	0.0
9123.7	55°	3269.8	709.4	54.8	26.2	15.5	0.0	0.0	0.0	0.0	0.0
7840.5	57.5°	2732.9	647.5	63.1	32.1	28.6	0.0	0.0	0.0	0.0	0.0
7639.4	58°	2637.7	619.0	65.5	33.3	30.9	0.0	0.0	0.0	0.0	0.0
6626.4	60°	2161.6	504.7	83.3	41.7	41.7	0.0	0.0	0.0	0.0	0.0
5432.5	62.5°	1492.6	440.4	95.2	53.6	42.9	0.0	0.0	0.0	0.0	0.0
4005.4	65°	1055.8	397.6	103.6	57.1	34.5	0.0	0.0	0.0	0.0	0.0
2846.0	67.5°	789.2	366.6	114.3	58.3	17.9	0.0	0.0	0.0	0.0	0.0
1785.5	70°	604.7	344.0	140.5	61.9	4.8	0.0	0.0	0.0	0.0	0.0
1064.1	72.5°	492.8	317.8	170.2	64.3	0.0	0.0	0.0	0.0	0.0	0.0
638.0	75°	408.3	286.9	164.3	70.2	0.0	0.0	0.0	0.0	0.0	0.0
340.4	77.5°	271.4	222.6	150.0	70.2	0.0	0.0	0.0	0.0	0.0	0.0
121.4	80°	95.2	88.1	116.6	61.9	0.0	0.0	0.0	0.0	0.0	0.0
25.0	82.5°	14.3	11.9	16.7	21.4	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
69.0	0°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
48.8	2.5°	48.8	48.8	47.6	48.8	48.8	51.2	57.1	65.5	75.0	78.6
41.7	5°	40.5	39.3	38.1	38.1	38.1	41.7	46.4	55.9	66.7	71.4
34.5	7.5°	33.3	32.1	30.9	29.8	29.8	32.1	38.1	48.8	59.5	64.3
28.6	10°	27.4	25.0	23.8	22.6	22.6	25.0	30.9	41.7	53.6	58.3
23.8	12.5°	22.6	19.0	16.7	15.5	14.3	17.9	23.8	33.3	46.4	52.4
17.9	15°	15.5	11.9	8.3	7.1	6.0	9.5	15.5	26.2	39.3	46.4
9.5	17.5°	8.3	3.6	1.2	0.0	0.0	2.4	7.1	19.0	32.1	38.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	23.8	29.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	14.3	20.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	10.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
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	3.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.5
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°
69.0	0°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
82.1	2.5°	84.5	83.3	80.9	78.6	78.6	78.6	82.1	85.7	89.3	89.3
73.8	5°	78.6	78.6	77.4	75.0	75.0	76.2	80.9	86.9	91.7	92.8
67.8	7.5°	72.6	75.0	72.6	71.4	72.6	73.8	78.6	85.7	92.8	95.2
63.1	10°	69.0	70.2	70.2	69.0	69.0	71.4	76.2	85.7	95.2	98.8
57.1	12.5°	64.3	66.7	65.5	65.5	65.5	67.8	73.8	84.5	97.6	102.4
51.2	15°	59.5	63.1	63.1	61.9	61.9	63.1	71.4	83.3	101.2	109.5
44.0	17.5°	54.8	58.3	59.5	57.1	57.1	59.5	67.8	83.3	103.6	117.8
35.7	20°	45.2	51.2	54.8	51.2	51.2	53.6	61.9	78.6	104.7	126.2
26.2	22.5°	35.7	41.7	46.4	45.2	45.2	46.4	57.1	75.0	105.9	140.5
15.5	25°	26.2	32.1	35.7	38.1	38.1	41.7	52.4	72.6	110.7	170.2
7.1	27.5°	15.5	22.6	27.4	29.8	30.9	35.7	48.8	70.2	119.0	213.1
0.0	30°	7.1	13.1	19.0	23.8	23.8	32.1	45.2	67.8	129.7	275.0
0.0	32.5°	0.0	6.0	9.5	16.7	17.9	26.2	41.7	65.5	145.2	334.5
0.0	35°	0.0	0.0	4.8	13.1	13.1	21.4	38.1	63.1	169.0	379.7
0.0	37.5°	0.0	0.0	0.0	9.5	10.7	19.0	36.9	61.9	173.8	383.3
0.0	40°	0.0	0.0	0.0	7.1	8.3	17.9	36.9	63.1	157.1	374.9
0.0	42.5°	0.0	0.0	0.0	4.8	6.0	17.9	36.9	65.5	141.6	384.5
0.0	45°	0.0	0.0	0.0	3.6	4.8	19.0	35.7	64.3	133.3	434.5
0.0	47.5°	0.0	0.0	0.0	4.8	7.1	19.0	34.5	63.1	134.5	599.9
0.0	50°	0.0	0.0	0.0	6.0	8.3	19.0	35.7	60.7	147.6	922.5
0.0	52.5°	0.0	0.0	0.0	4.8	7.1	21.4	39.3	59.5	160.7	1199.8
0.0	55°	0.0	0.0	0.0	1.2	3.6	27.4	42.9	59.5	180.9	1268.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	30.9	48.8	63.1	214.3	1241.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	30.9	50.0	63.1	216.6	1217.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	30.9	54.8	70.2	233.3	1084.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	26.2	65.5	88.1	242.8	852.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	21.4	77.4	96.4	250.0	678.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	20.2	79.8	97.6	253.5	540.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	21.4	78.6	104.7	265.4	439.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	23.8	71.4	115.5	265.4	389.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	25.0	66.7	129.7	241.6	336.9
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	23.8	65.5	151.2	215.4	277.3
0.0	80°	2.4	3.6	3.6	2.4	2.4	20.2	64.3	153.5	183.3	190.4
1.2	82.5°	7.1	9.5	8.3	6.0	6.0	17.9	57.1	128.6	95.2	82.1
7.1	85°	13.1	15.5	15.5	13.1	13.1	16.7	35.7	46.4	32.1	26.2
13.1	87.5°	17.9	20.2	20.2	17.9	17.9	16.7	15.5	14.3	13.1	13.1
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

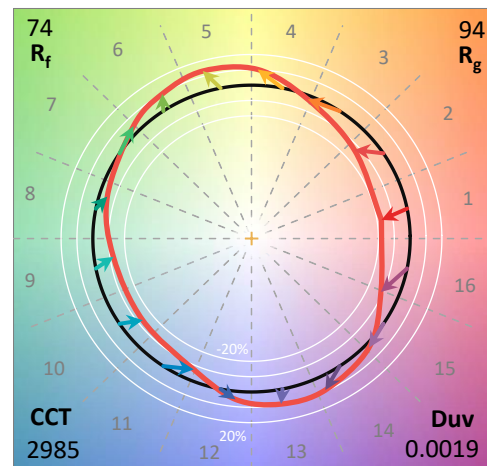
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

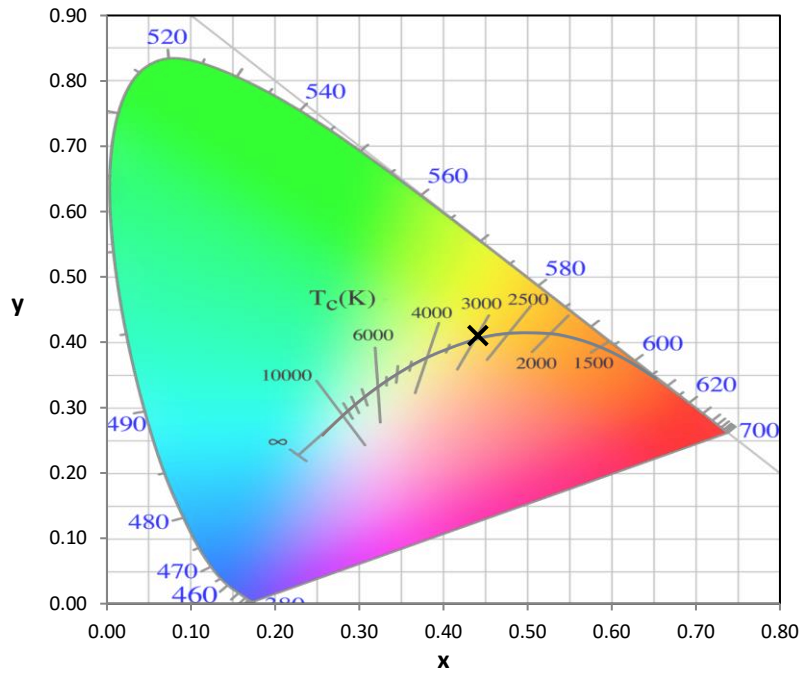
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

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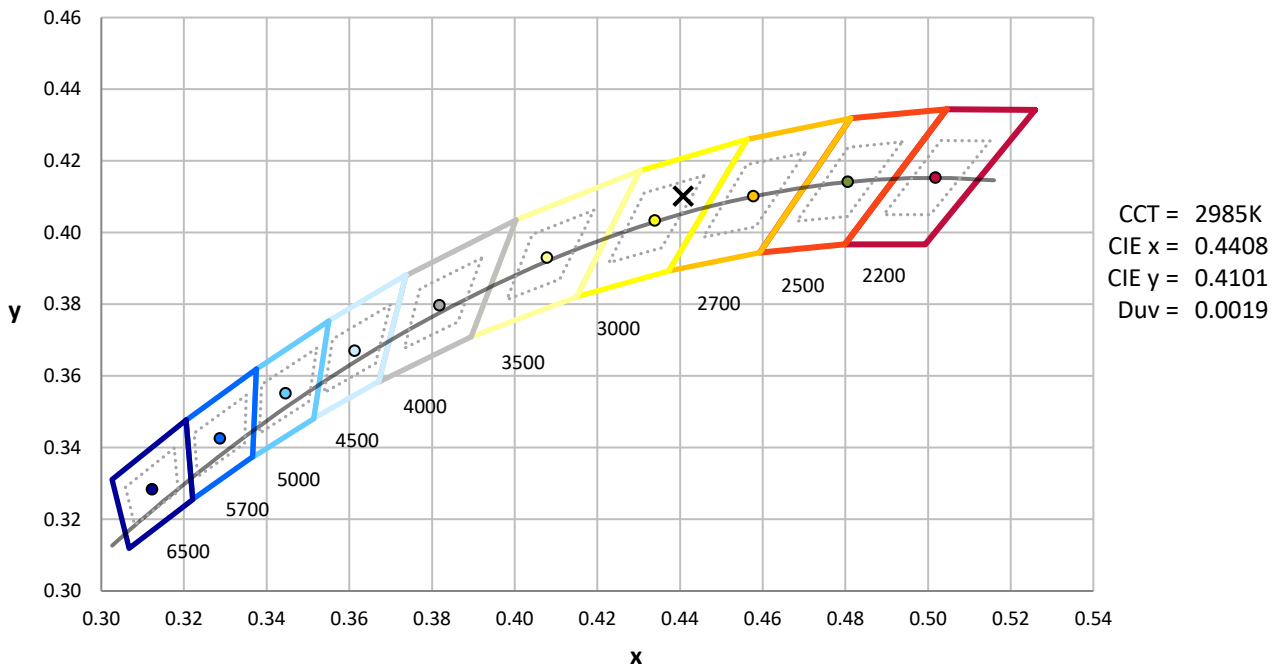
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



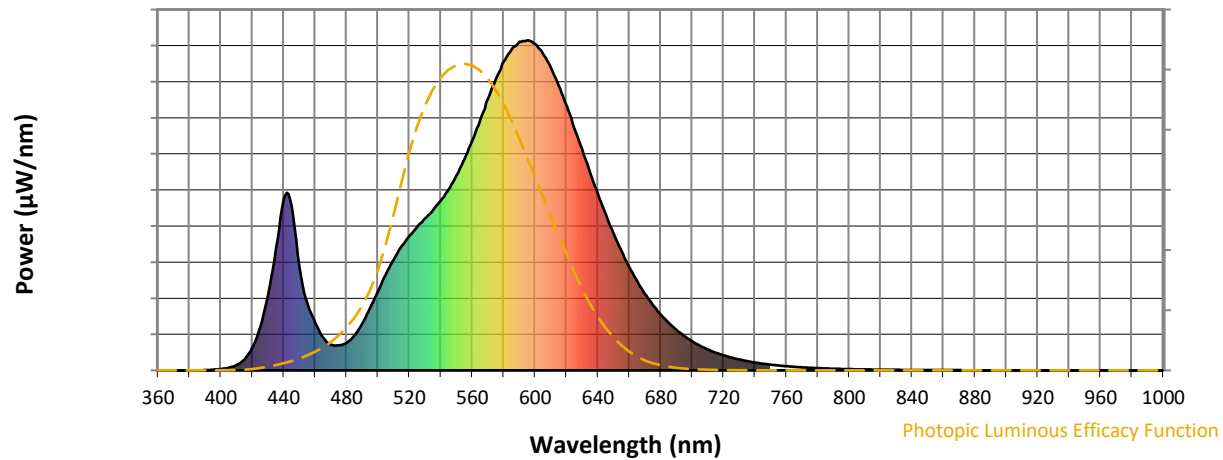
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

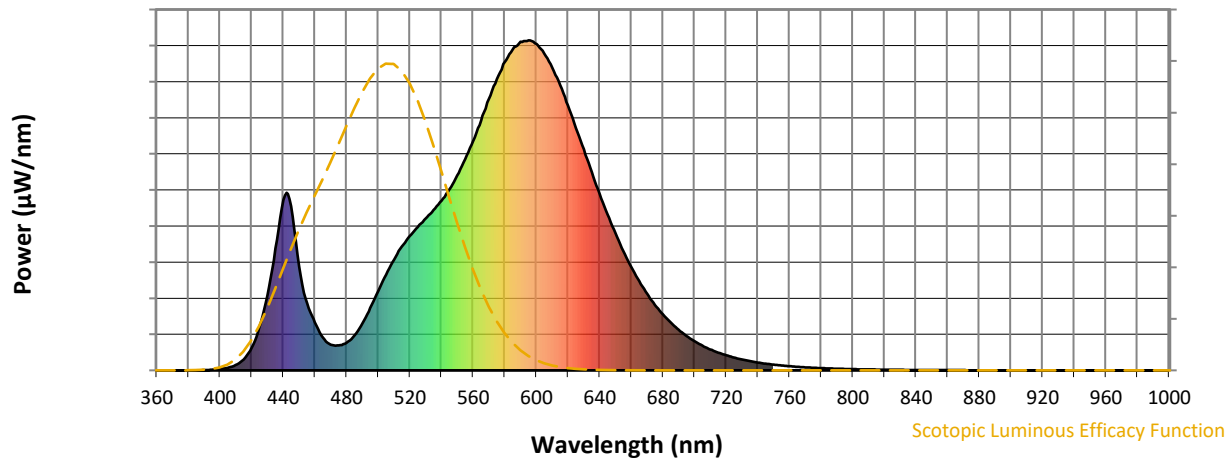


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



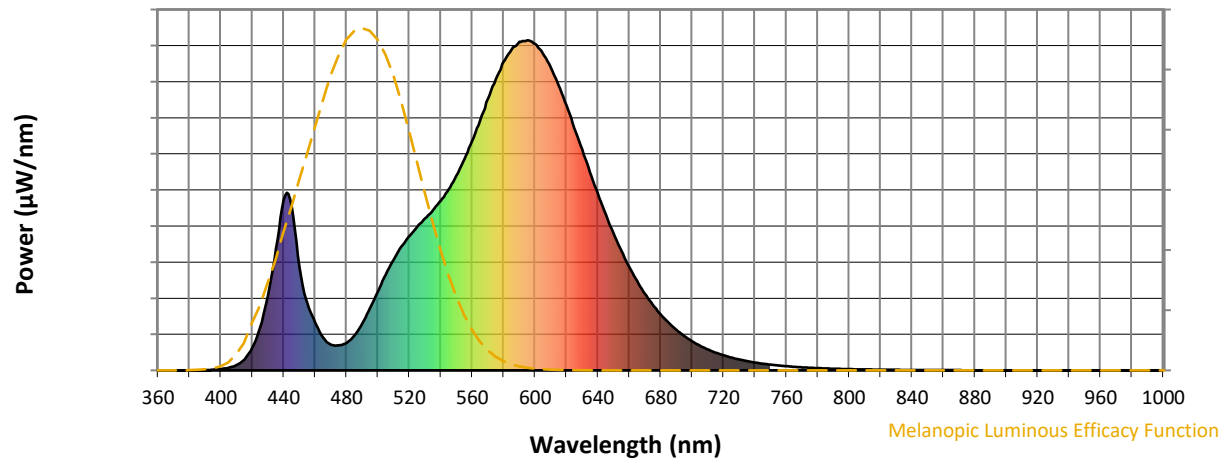
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

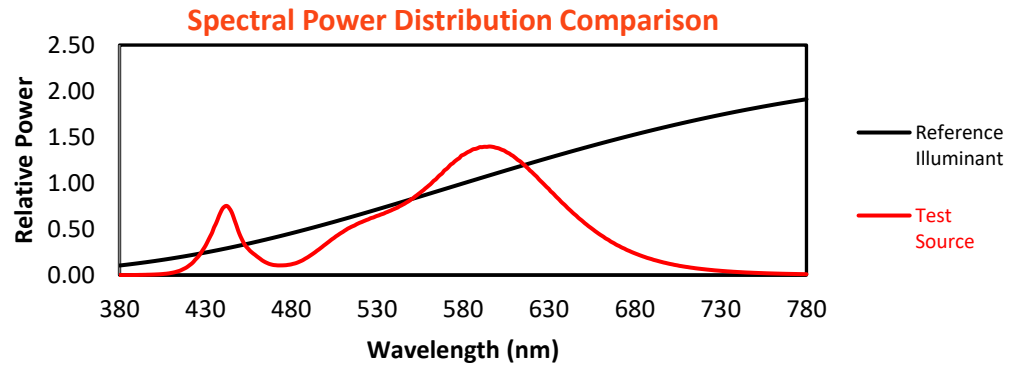
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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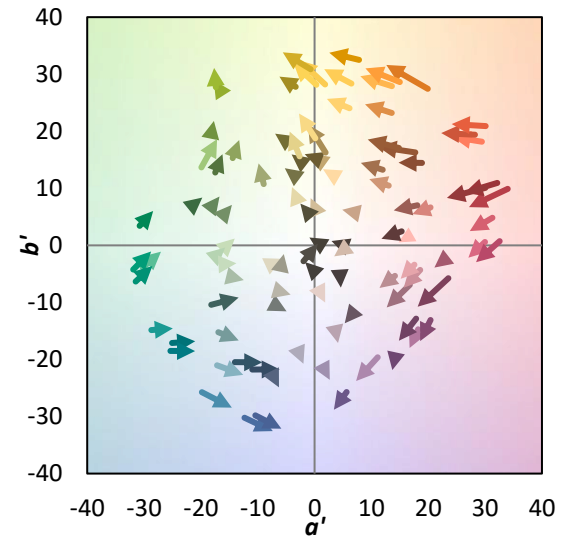
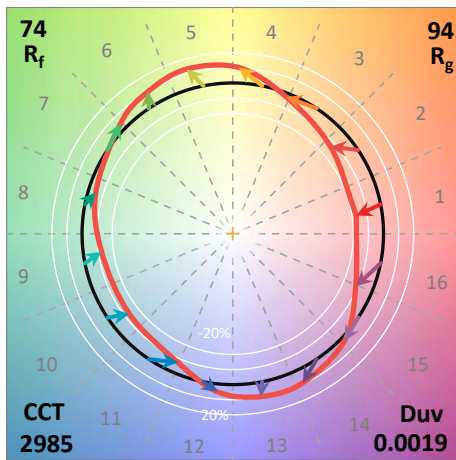
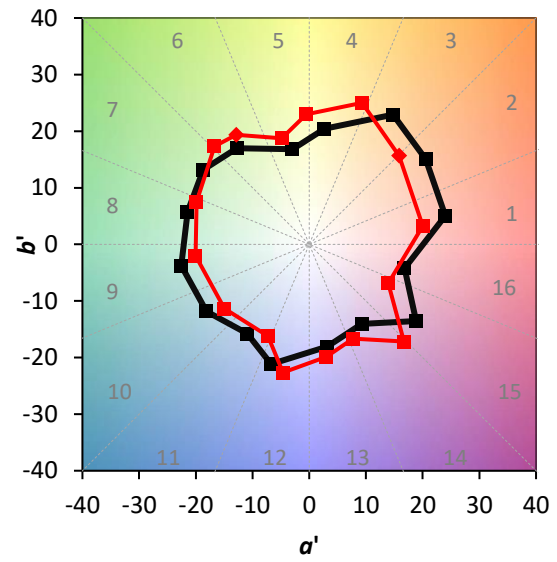
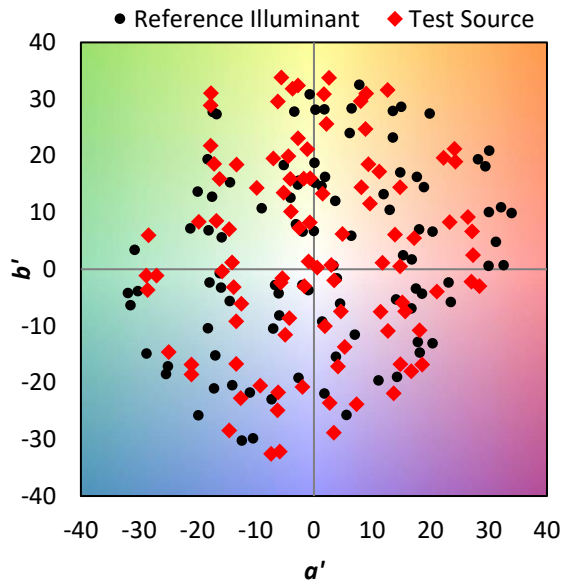
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE\ R_a = 70.8$
 $R_g = -43.2$

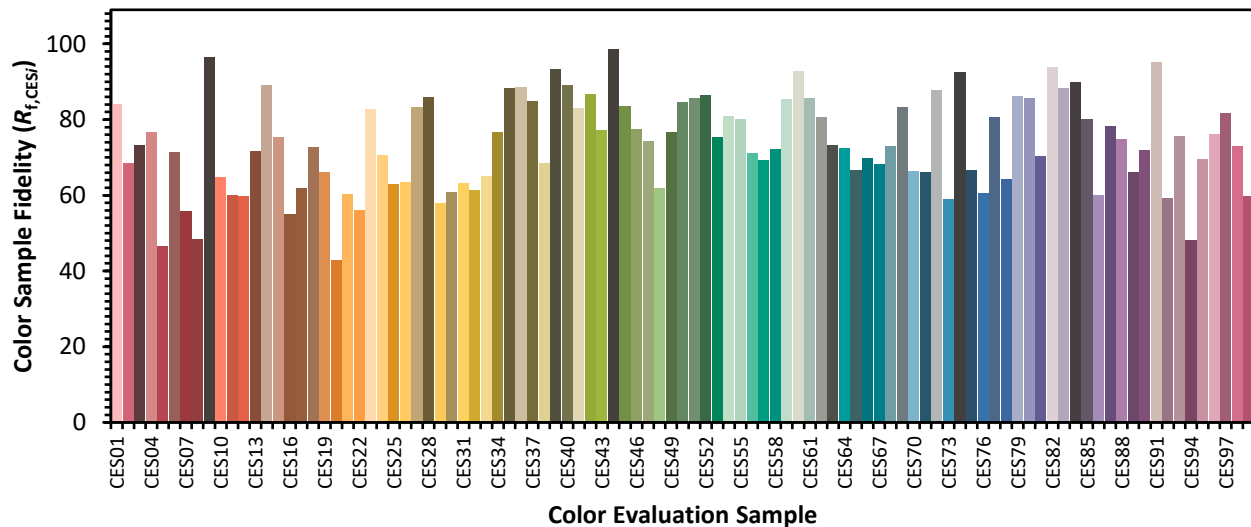


Color Vector Graphics

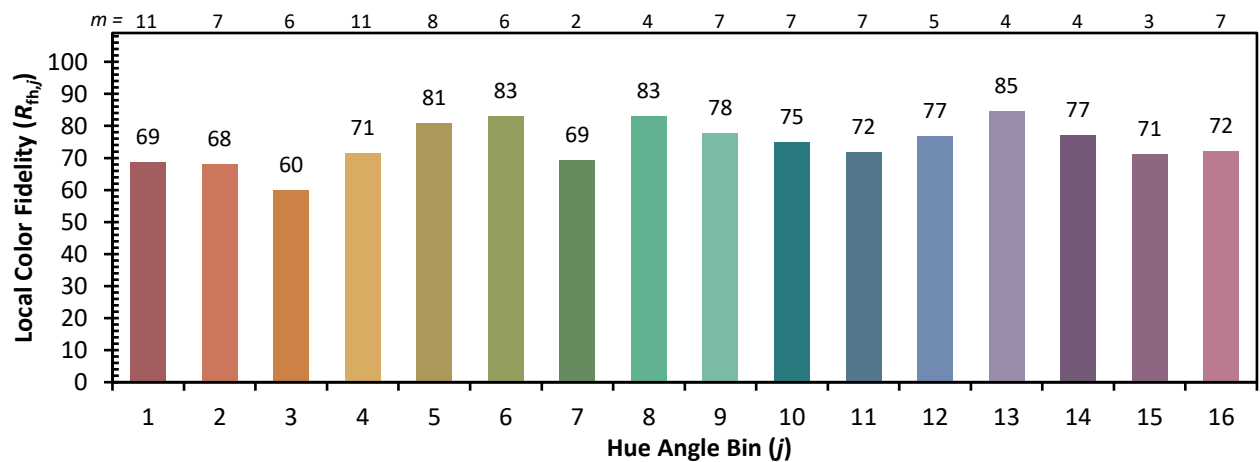
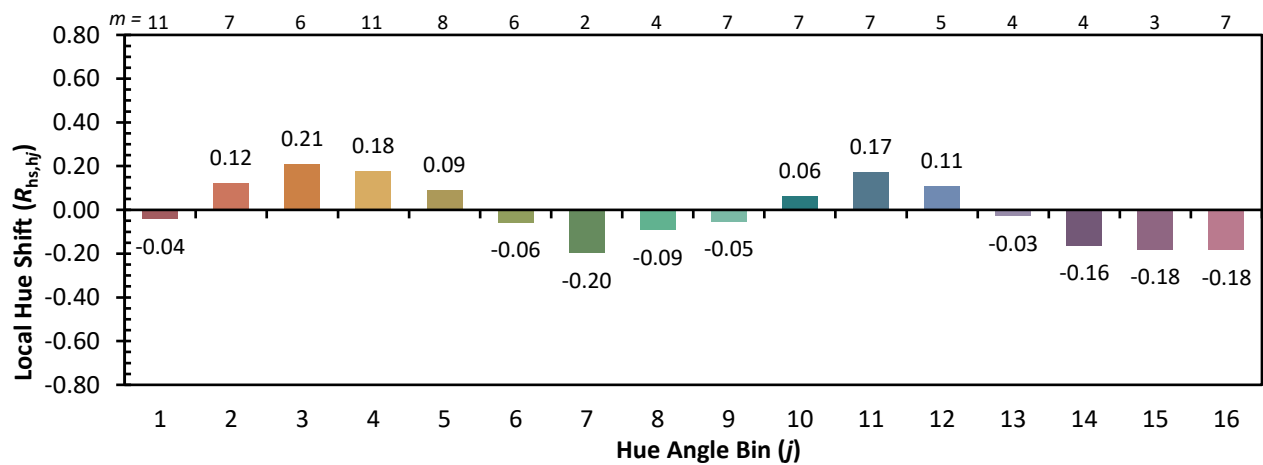
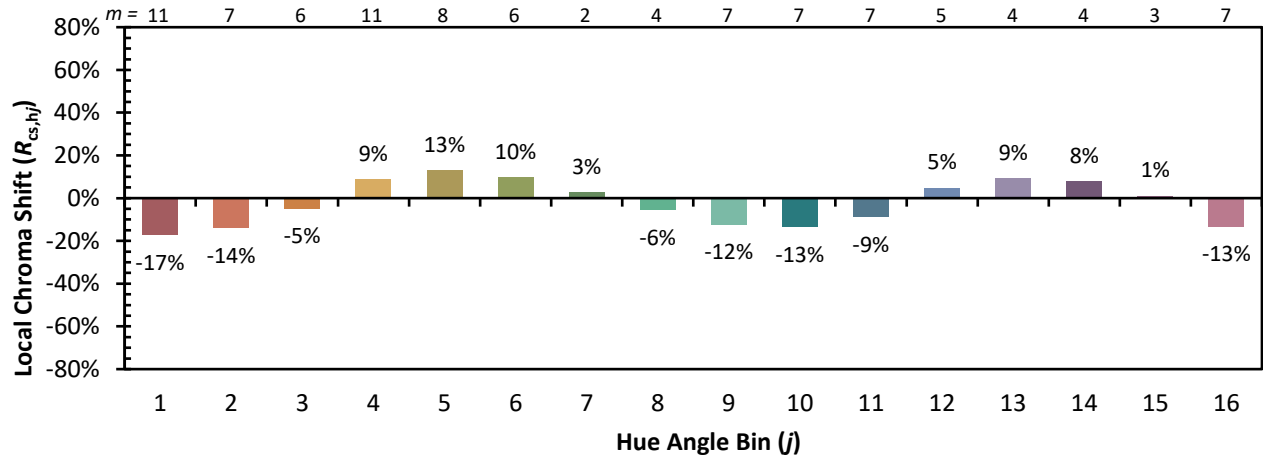


Individual Sample Fidelity Index ($R_{f,i}$)

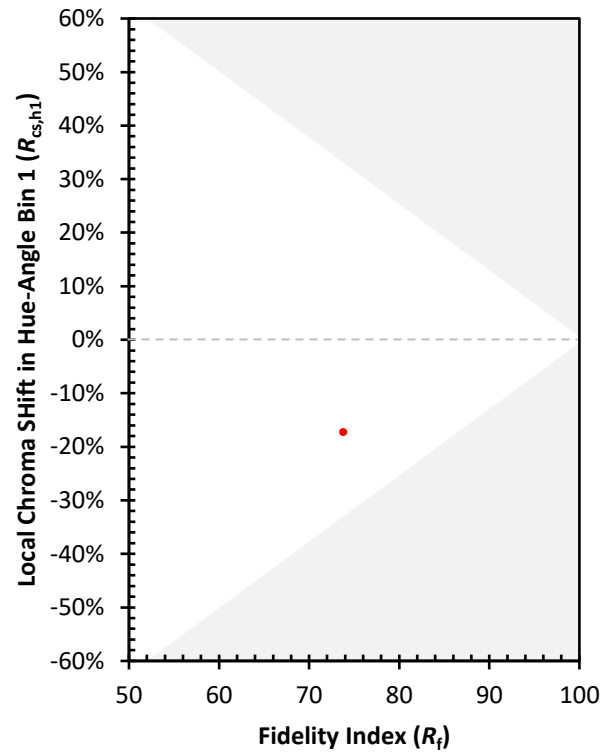
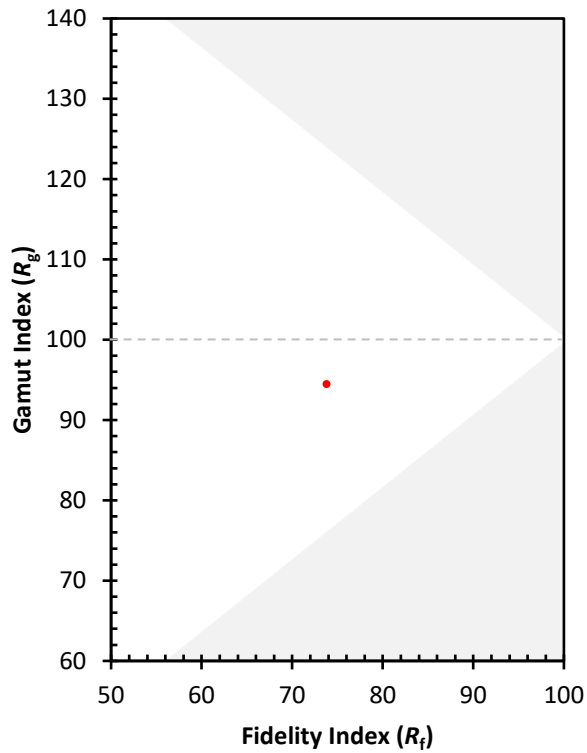
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)