

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: P1049621

Luminaire Tested: **GALN-SA5A-735-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049621
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15961.3 lumens
Efficiency: N/A
Efficacy: 116.8 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 (A_{in}): 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

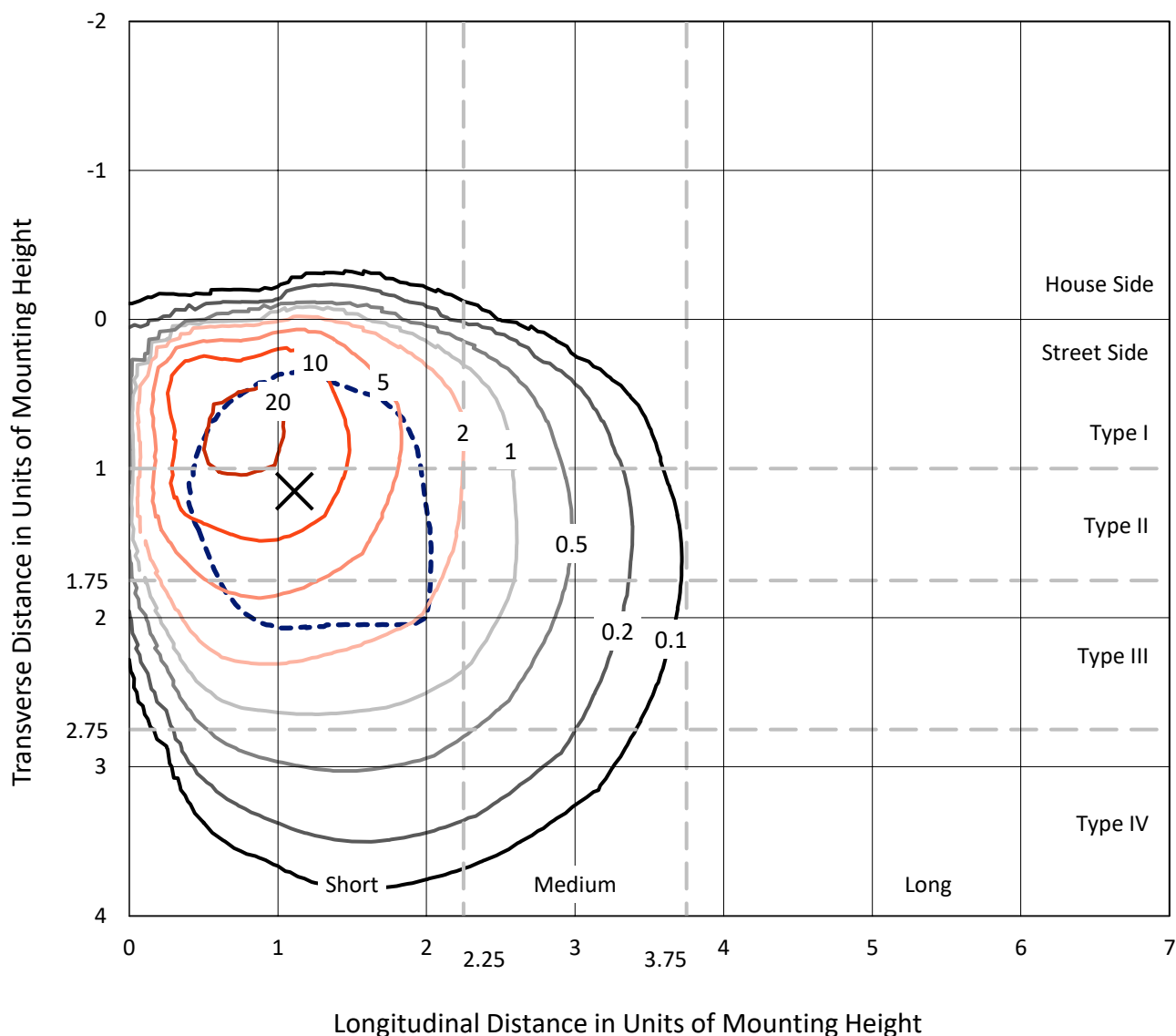
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

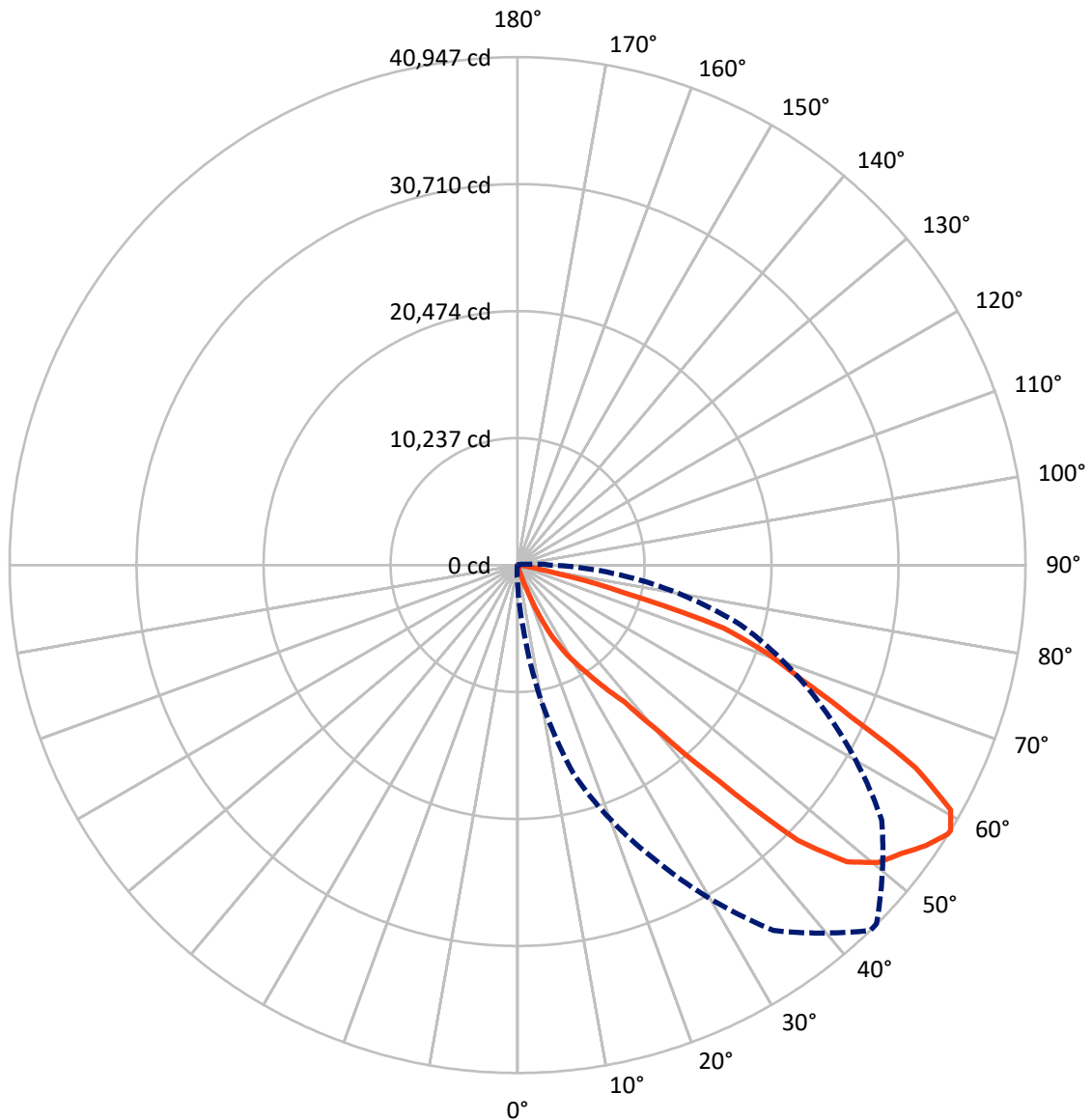


Based on 20 foot mounting height. Maximum calculated value = 27.8 fc

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	109.0	0.0	109.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	15852.3	0.0	15852.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	15961.3	0.0	15961.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.0
10°-20°	35.0	0.2
20°-30°	378.1	2.4
30°-40°	1118.2	7.0
40°-50°	3333.0	20.9
50°-60°	5288.6	33.1
60°-70°	4411.3	27.6
70°-80°	1360.5	8.5
80°-90°	30.2	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°	15961.3	100.0
0°-180°	15961.3	100.0



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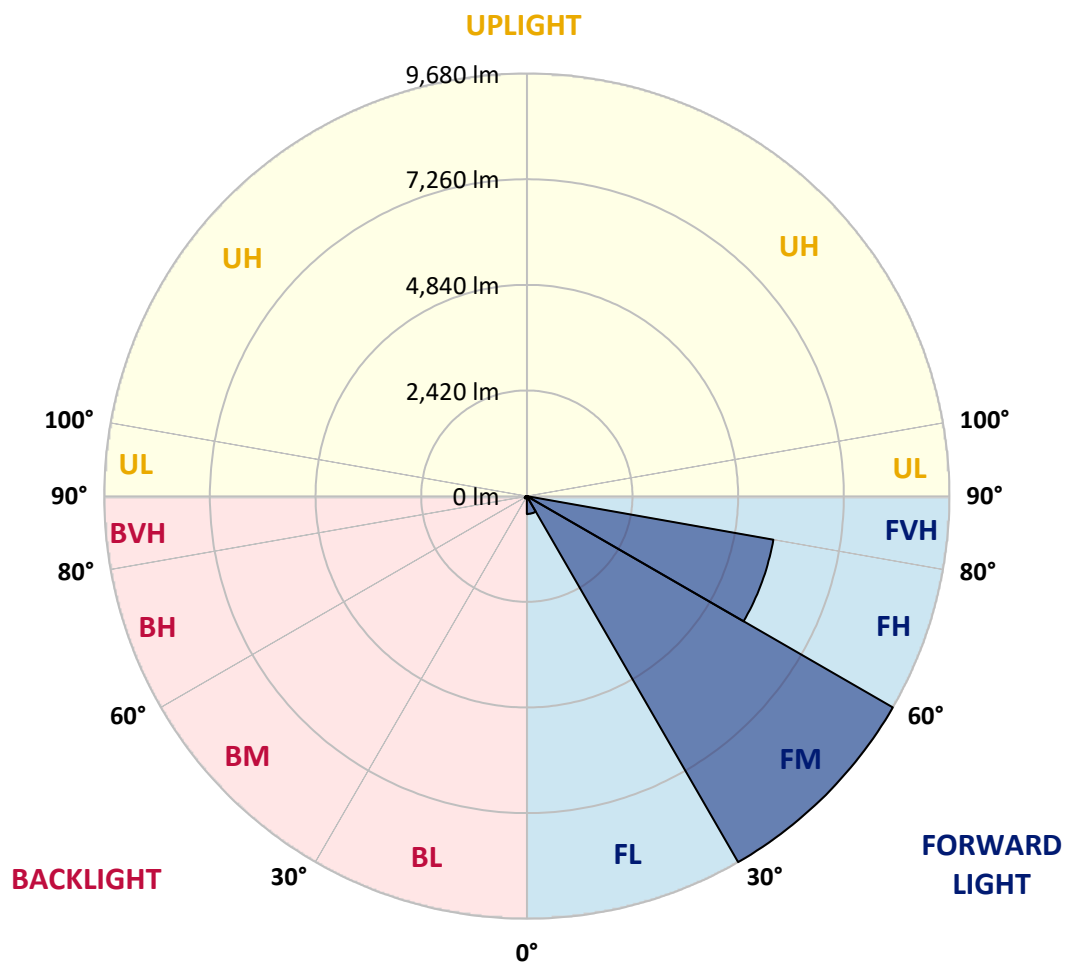
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	408.7	2.6			
FM	(30°-60°)	9680.2	60.6			
FH	(60°-80°)	5734.7	35.9			G3/7500
FVH	(80°-90°)	28.8	0.2			G1/100
BL	(0°-30°)	10.7	0.1	B0/110		
BM	(30°-60°)	59.6	0.4	B0/220		
BH	(60°-80°)	37.2	0.2	B0/110		G0/110
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
2.5°	90.4	90.4	86.8	82.0	77.2	72.3	71.1	68.7	67.5	66.3
5°	94.0	94.0	92.8	89.2	84.4	80.8	80.8	77.2	74.8	72.3
7.5°	96.5	97.7	100.1	98.9	96.5	92.8	92.8	90.4	86.8	80.8
10°	100.1	103.7	108.5	110.9	112.1	112.1	110.9	109.7	103.7	95.3
12.5°	103.7	110.9	123.0	135.0	142.3	151.9	150.7	148.3	132.6	114.5
15°	110.9	121.8	147.1	182.1	236.3	270.1	283.3	271.3	219.4	154.3
17.5°	119.4	137.5	213.4	381.0	624.6	740.3	810.3	753.6	499.2	293.0
20°	127.8	167.6	396.7	987.5	1620.5	1999.1	2104.0	1940.0	1245.5	558.3
22.5°	142.3	235.1	804.2	2041.3	3491.8	4059.7	4167.0	3642.5	2352.4	1102.0
25°	172.4	341.2	1386.6	3326.6	5211.2	6169.8	6125.2	5437.9	3816.2	1760.4
27.5°	215.8	496.8	2096.8	4726.5	6858.3	7703.5	7804.8	6954.7	5087.0	2588.7
30°	278.5	688.5	2858.8	5847.8	8178.5	9092.5	9109.4	8230.4	6224.0	3315.8
32.5°	338.8	869.3	3525.6	6931.8	9479.5	10481.5	10556.3	9474.7	7072.9	4073.0
35°	384.6	987.5	4200.8	7884.3	10791.4	12172.0	12167.1	10883.0	8078.5	4749.4
37.5°	388.2	1105.7	4812.1	8858.6	12452.9	13998.7	14151.8	12736.3	9293.9	5586.2
40°	379.8	1238.3	5586.2	10377.8	15446.8	17818.5	17953.5	16169.0	11731.9	7018.6
42.5°	389.5	1468.6	6842.6	13183.6	20418.0	23824.3	24084.7	22208.6	16213.6	9941.3
45°	440.1	1901.5	9474.7	17877.5	27504.2	31656.8	31569.9	28867.9	21428.4	14390.5
47.5°	607.7	2961.3	13376.5	22446.1	32032.9	35731.0	35805.7	32503.2	24471.7	17811.2
50°	934.4	4531.2	16654.9	24861.2	33980.2	37690.3	37620.4	33804.2	25628.0	19495.6
52.5°	1215.4	5667.0	18299.5	25708.8	34229.8	38658.5	38653.7	34146.6	25807.7	19640.3
55°	1285.3	5752.6	18312.8	25754.6	34789.3	39925.7	40084.9	34989.4	26040.4	19008.5
57.5°	1257.6	5093.1	17548.4	26019.9	35785.2	40906.0	40914.4	35805.7	26631.2	18621.5
58°	1233.5	4989.4	17394.0	26170.6	35956.4	40947.0	40926.5	35843.1	27112.3	18607.0
60°	1098.4	4332.2	16792.4	26555.3	35702.0	40105.4	39913.7	35026.8	27041.2	18458.7
62.5°	863.3	3379.7	16200.3	26110.3	32974.6	36031.2	36110.8	31010.5	24651.4	17594.2
65°	687.3	2518.8	14965.7	22903.1	27153.3	29588.9	29885.5	25216.9	20576.0	14898.1
67.5°	547.4	1820.7	12554.2	18234.4	21486.3	24694.8	24910.6	21171.6	15941.1	11414.8
70°	444.9	1231.1	8665.7	13335.5	17722.0	21329.6	21342.8	17588.2	11898.3	7479.2
72.5°	394.3	852.5	5030.4	9725.5	14370.0	17380.8	17029.9	14272.4	9144.3	4429.9
75°	341.2	565.5	2466.9	5945.5	8712.7	8771.8	8905.6	6620.7	4571.0	2106.4
77.5°	280.9	401.5	971.8	1624.1	2612.8	3344.7	3468.9	2628.5	1520.4	518.5
80°	192.9	190.5	261.6	498.0	747.6	936.9	874.2	676.4	397.9	198.9
82.5°	83.2	90.4	118.2	142.3	115.8	112.1	107.3	68.7	53.1	41.0
85°	26.5	24.1	25.3	25.3	20.5	15.7	15.7	7.2	0.0	0.0
87.5°	13.3	10.9	10.9	9.6	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°
69.9	0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
65.1	2.5°	63.9	63.9	61.5	59.1	57.9	55.5	54.3	53.1	51.8	50.6
69.9	5°	67.5	66.3	62.7	59.1	55.5	51.8	49.4	47.0	44.6	43.4
77.2	7.5°	73.6	71.1	63.9	57.9	53.1	48.2	45.8	42.2	39.8	36.2
85.6	10°	80.8	76.0	66.3	59.1	51.8	45.8	42.2	38.6	35.0	30.1
97.7	12.5°	90.4	82.0	69.9	57.9	49.4	42.2	38.6	33.8	30.1	26.5
113.3	15°	98.9	88.0	71.1	57.9	47.0	38.6	33.8	28.9	25.3	20.5
142.3	17.5°	110.9	92.8	69.9	54.3	43.4	33.8	28.9	25.3	19.3	12.1
211.0	20°	131.4	96.5	67.5	50.6	37.4	27.7	21.7	16.9	8.4	2.4
317.1	22.5°	164.0	106.1	65.1	45.8	32.6	21.7	14.5	6.0	0.0	0.0
482.3	25°	226.7	123.0	65.1	43.4	28.9	15.7	4.8	0.0	0.0	0.0
684.9	27.5°	301.4	145.9	65.1	37.4	22.9	8.4	0.0	0.0	0.0	0.0
933.2	30°	377.4	171.2	65.1	32.6	18.1	1.2	0.0	0.0	0.0	0.0
1149.1	32.5°	449.7	192.9	66.3	27.7	12.1	0.0	0.0	0.0	0.0	0.0
1448.1	35°	523.3	196.5	65.1	24.1	7.2	0.0	0.0	0.0	0.0	0.0
1814.6	37.5°	617.3	189.3	61.5	21.7	3.6	0.0	0.0	0.0	0.0	0.0
2387.4	40°	759.6	192.9	57.9	20.5	1.2	0.0	0.0	0.0	0.0	0.0
3408.6	42.5°	1022.5	208.6	53.1	20.5	0.0	0.0	0.0	0.0	0.0	0.0
5429.5	45°	1767.6	279.7	48.2	21.7	0.0	0.0	0.0	0.0	0.0	0.0
8150.8	47.5°	2923.9	502.8	47.0	21.7	0.0	0.0	0.0	0.0	0.0	0.0
9818.4	50°	3731.8	633.0	49.4	22.9	0.0	0.0	0.0	0.0	0.0	0.0
10026.9	52.5°	3725.7	705.4	51.8	24.1	4.8	0.0	0.0	0.0	0.0	0.0
9242.0	55°	3312.2	718.6	55.5	26.5	15.7	0.0	0.0	0.0	0.0	0.0
7942.2	57.5°	2768.4	655.9	63.9	32.6	28.9	0.0	0.0	0.0	0.0	0.0
7738.5	58°	2671.9	627.0	66.3	33.8	31.3	0.0	0.0	0.0	0.0	0.0
6712.4	60°	2189.6	511.2	84.4	42.2	42.2	0.0	0.0	0.0	0.0	0.0
5503.0	62.5°	1512.0	446.1	96.5	54.3	43.4	0.0	0.0	0.0	0.0	0.0
4057.3	65°	1069.5	402.7	104.9	57.9	35.0	0.0	0.0	0.0	0.0	0.0
2882.9	67.5°	799.4	371.4	115.8	59.1	18.1	0.0	0.0	0.0	0.0	0.0
1808.6	70°	612.5	348.5	142.3	62.7	4.8	0.0	0.0	0.0	0.0	0.0
1077.9	72.5°	499.2	321.9	172.4	65.1	0.0	0.0	0.0	0.0	0.0	0.0
646.3	75°	413.6	290.6	166.4	71.1	0.0	0.0	0.0	0.0	0.0	0.0
344.8	77.5°	274.9	225.5	151.9	71.1	0.0	0.0	0.0	0.0	0.0	0.0
123.0	80°	96.5	89.2	118.2	62.7	0.0	0.0	0.0	0.0	0.0	0.0
25.3	82.5°	14.5	12.1	16.9	21.7	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°
69.9	0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
49.4	2.5°	49.4	49.4	48.2	49.4	49.4	51.8	57.9	66.3	76.0	79.6
42.2	5°	41.0	39.8	38.6	38.6	38.6	42.2	47.0	56.7	67.5	72.3
35.0	7.5°	33.8	32.6	31.3	30.1	30.1	32.6	38.6	49.4	60.3	65.1
28.9	10°	27.7	25.3	24.1	22.9	22.9	25.3	31.3	42.2	54.3	59.1
24.1	12.5°	22.9	19.3	16.9	15.7	14.5	18.1	24.1	33.8	47.0	53.1
18.1	15°	15.7	12.1	8.4	7.2	6.0	9.6	15.7	26.5	39.8	47.0
9.6	17.5°	8.4	3.6	1.2	0.0	0.0	2.4	7.2	19.3	32.6	38.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	24.1	30.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	14.5	20.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	10.9
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	9.6
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°
69.9	0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
83.2	2.5°	85.6	84.4	82.0	79.6	79.6	79.6	83.2	86.8	90.4	90.4
74.8	5°	79.6	79.6	78.4	76.0	76.0	77.2	82.0	88.0	92.8	94.0
68.7	7.5°	73.6	76.0	73.6	72.3	73.6	74.8	79.6	86.8	94.0	96.5
63.9	10°	69.9	71.1	71.1	69.9	69.9	72.3	77.2	86.8	96.5	100.1
57.9	12.5°	65.1	67.5	66.3	66.3	66.3	68.7	74.8	85.6	98.9	103.7
51.8	15°	60.3	63.9	63.9	62.7	62.7	63.9	72.3	84.4	102.5	110.9
44.6	17.5°	55.5	59.1	60.3	57.9	57.9	60.3	68.7	84.4	104.9	119.4
36.2	20°	45.8	51.8	55.5	51.8	51.8	54.3	62.7	79.6	106.1	127.8
26.5	22.5°	36.2	42.2	47.0	45.8	45.8	47.0	57.9	76.0	107.3	142.3
15.7	25°	26.5	32.6	36.2	38.6	38.6	42.2	53.1	73.6	112.1	172.4
7.2	27.5°	15.7	22.9	27.7	30.1	31.3	36.2	49.4	71.1	120.6	215.8
0.0	30°	7.2	13.3	19.3	24.1	24.1	32.6	45.8	68.7	131.4	278.5
0.0	32.5°	0.0	6.0	9.6	16.9	18.1	26.5	42.2	66.3	147.1	338.8
0.0	35°	0.0	0.0	4.8	13.3	13.3	21.7	38.6	63.9	171.2	384.6
0.0	37.5°	0.0	0.0	0.0	9.6	10.9	19.3	37.4	62.7	176.0	388.2
0.0	40°	0.0	0.0	0.0	7.2	8.4	18.1	37.4	63.9	159.2	379.8
0.0	42.5°	0.0	0.0	0.0	4.8	6.0	18.1	37.4	66.3	143.5	389.5
0.0	45°	0.0	0.0	0.0	3.6	4.8	19.3	36.2	65.1	135.0	440.1
0.0	47.5°	0.0	0.0	0.0	4.8	7.2	19.3	35.0	63.9	136.2	607.7
0.0	50°	0.0	0.0	0.0	6.0	8.4	19.3	36.2	61.5	149.5	934.4
0.0	52.5°	0.0	0.0	0.0	4.8	7.2	21.7	39.8	60.3	162.8	1215.4
0.0	55°	0.0	0.0	0.0	1.2	3.6	27.7	43.4	60.3	183.3	1285.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	31.3	49.4	63.9	217.0	1257.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	31.3	50.6	63.9	219.4	1233.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	31.3	55.5	71.1	236.3	1098.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	26.5	66.3	89.2	246.0	863.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	21.7	78.4	97.7	253.2	687.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	20.5	80.8	98.9	256.8	547.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	21.7	79.6	106.1	268.9	444.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	24.1	72.3	117.0	268.9	394.3
0.0	75°	0.0	0.0	0.0	0.0	0.0	25.3	67.5	131.4	244.8	341.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	24.1	66.3	153.1	218.2	280.9
0.0	80°	2.4	3.6	3.6	2.4	2.4	20.5	65.1	155.5	185.7	192.9
1.2	82.5°	7.2	9.6	8.4	6.0	6.0	18.1	57.9	130.2	96.5	83.2
7.2	85°	13.3	15.7	15.7	13.3	13.3	16.9	36.2	47.0	32.6	26.5
13.3	87.5°	18.1	20.5	20.5	18.1	18.1	16.9	15.7	14.5	13.3	13.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

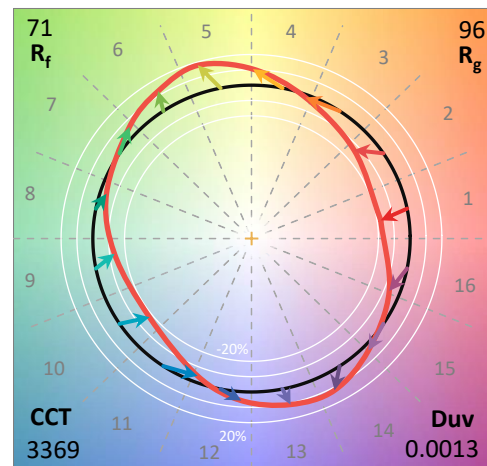
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3369	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

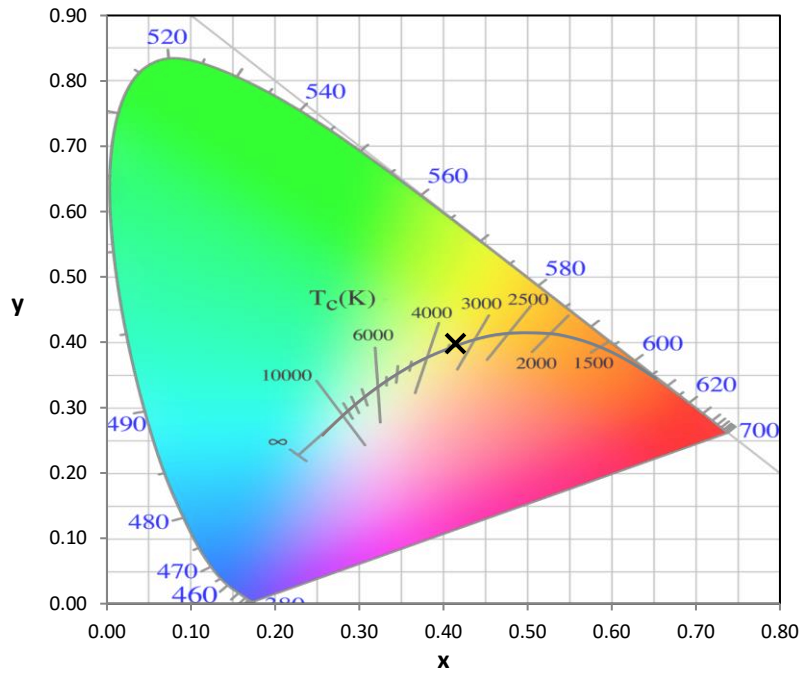
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

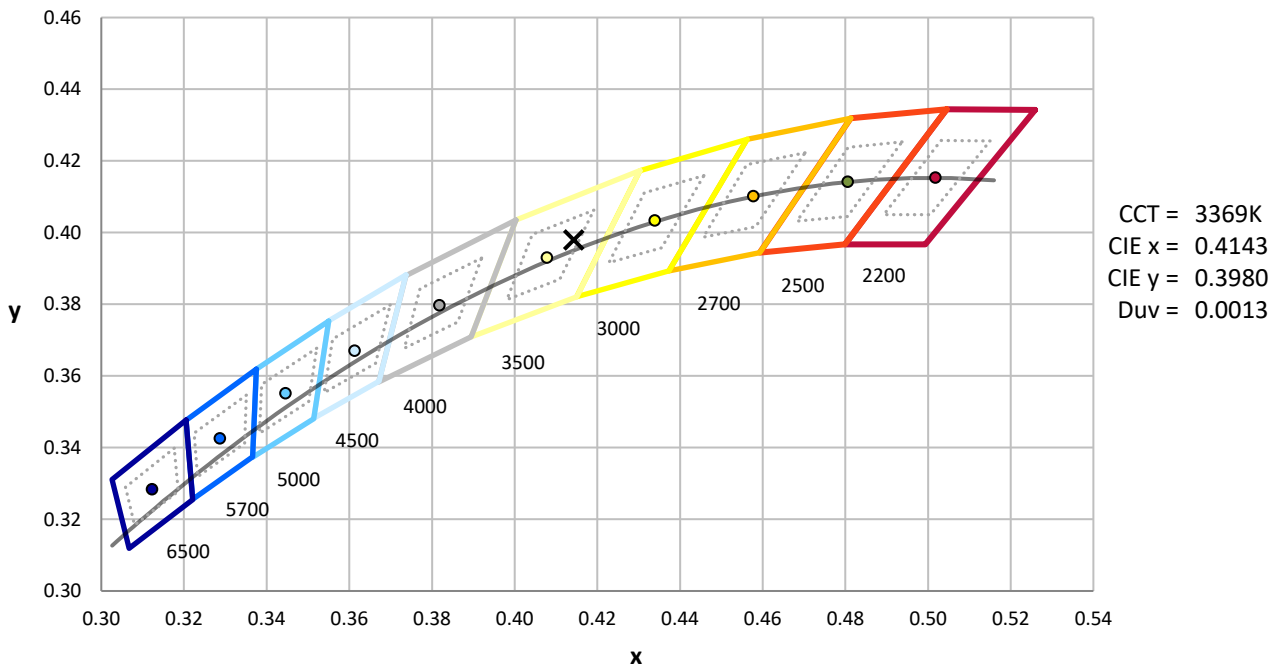
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



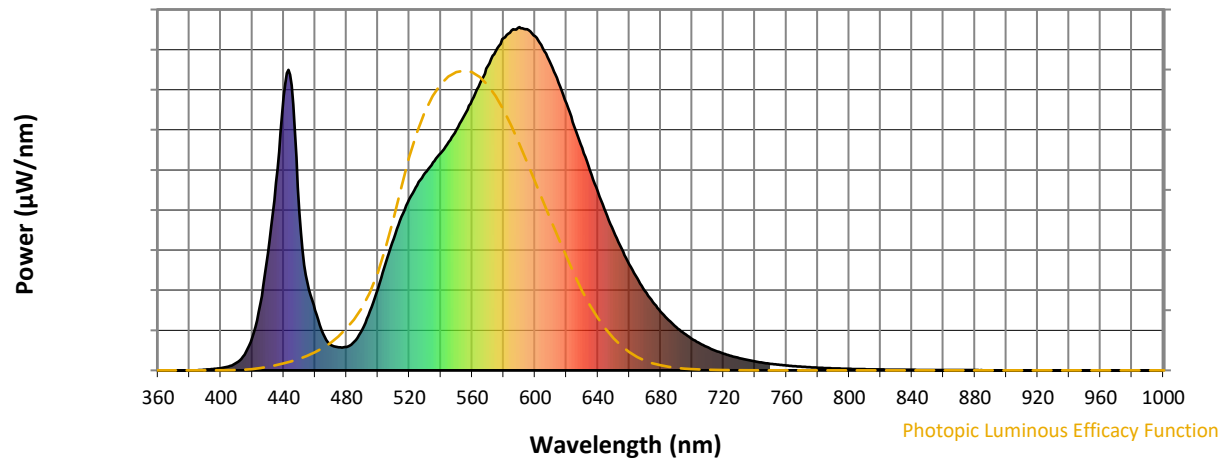
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

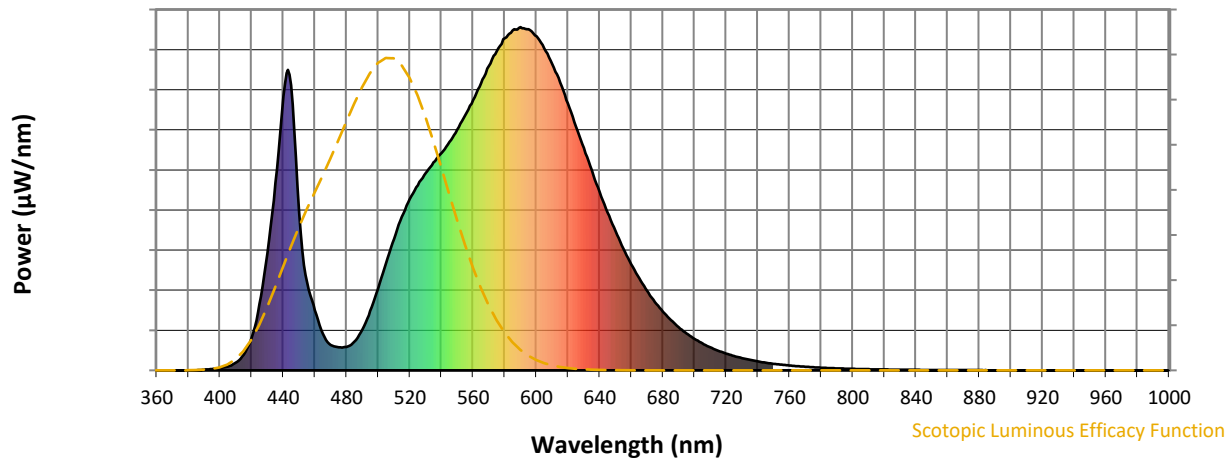


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



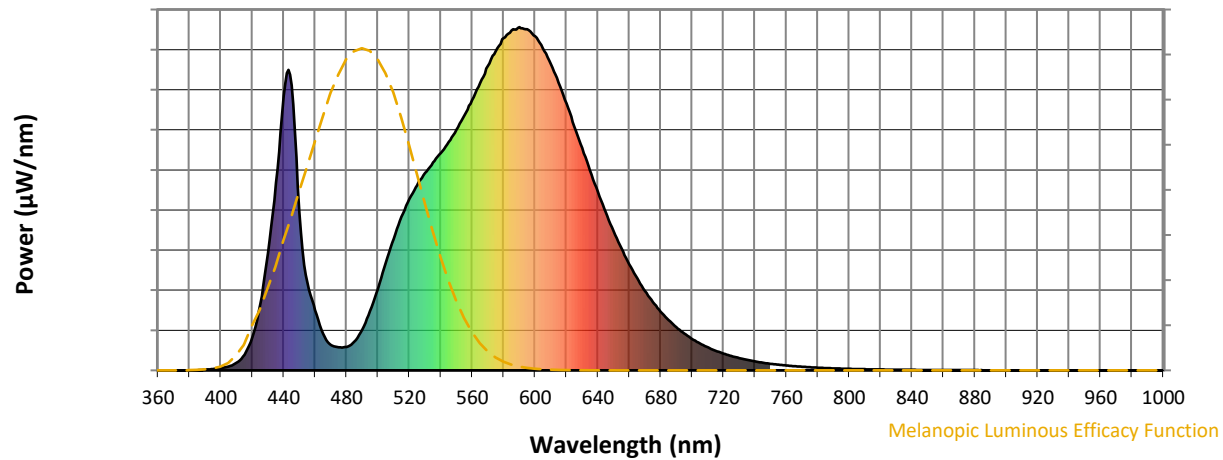
Scotopic Lumens: NR

S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.36

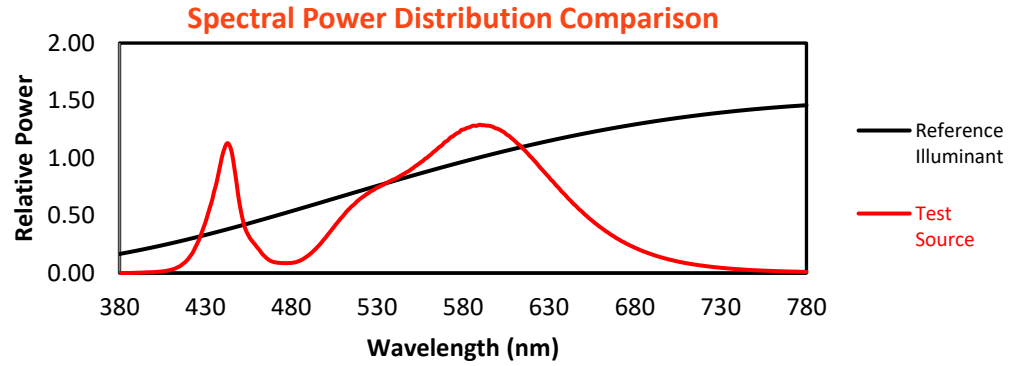
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

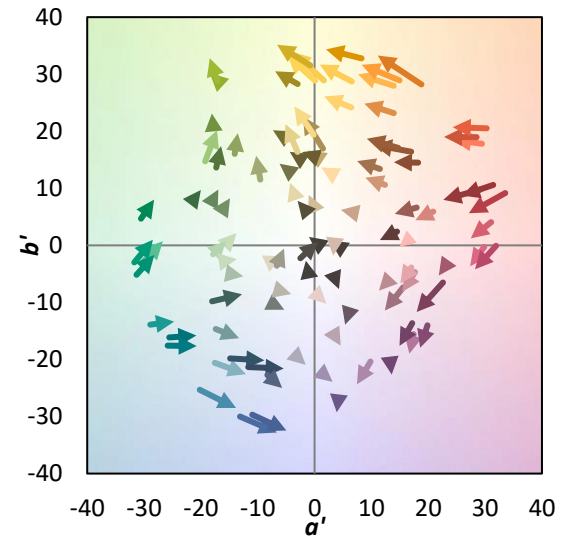
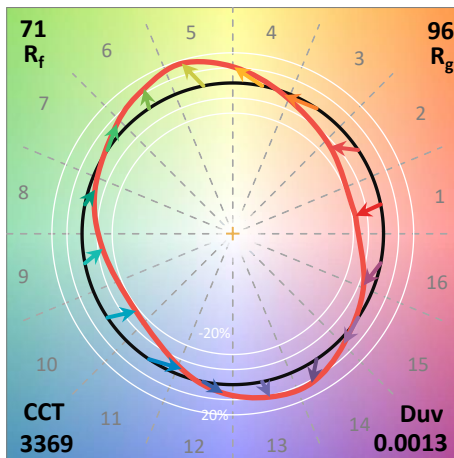
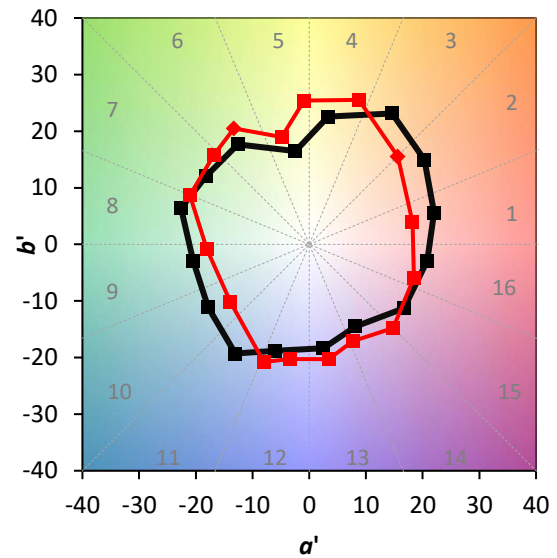
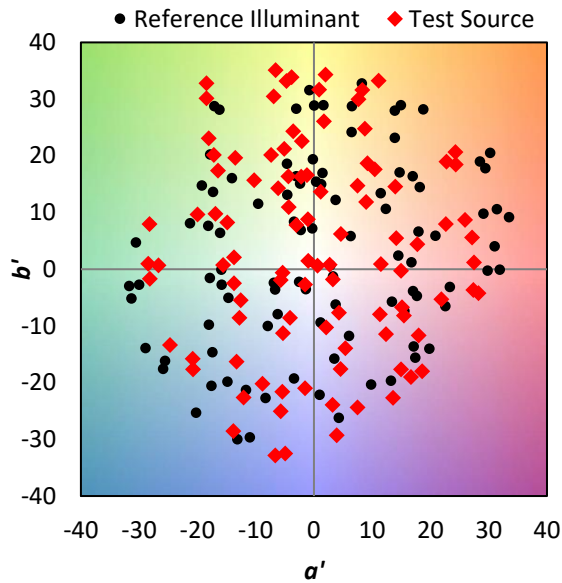
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 CIE $R_a = 70.1$
 $R_g = -40.2$

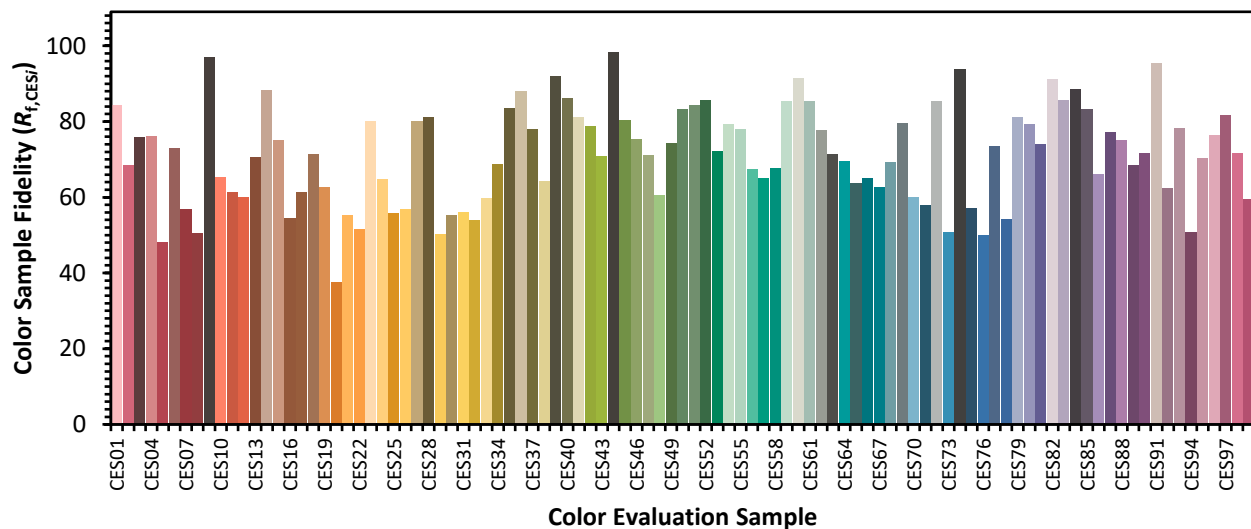


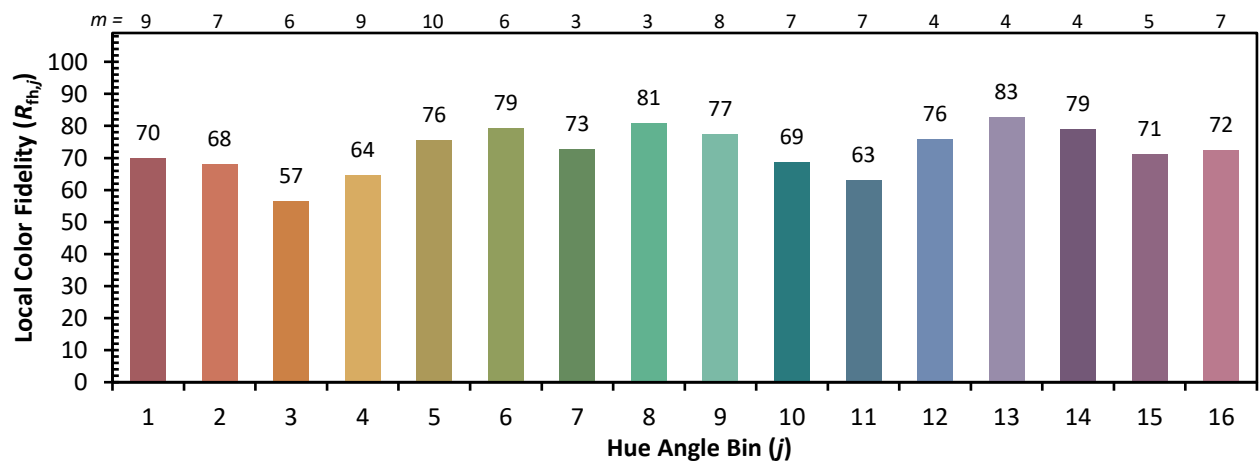
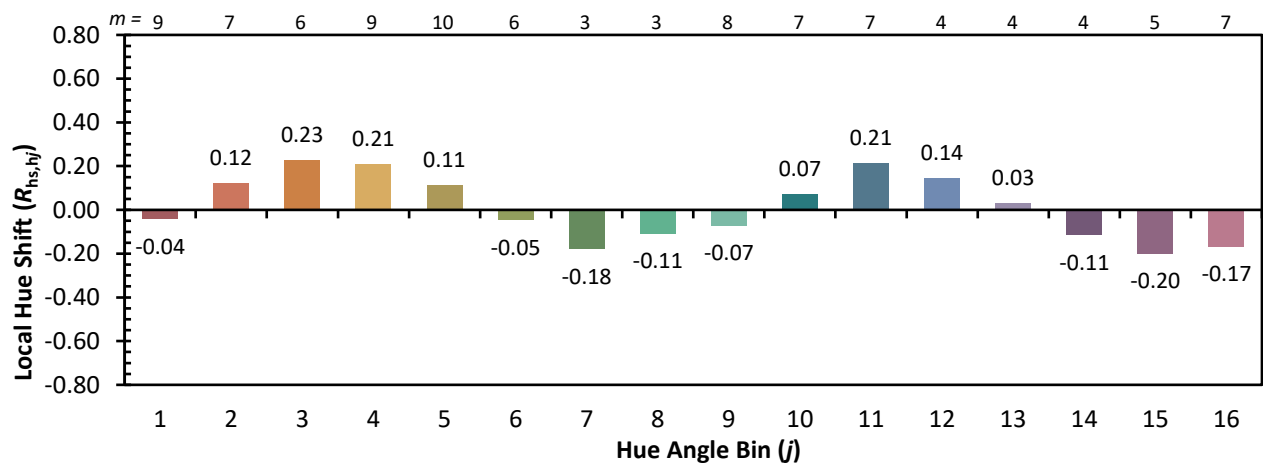
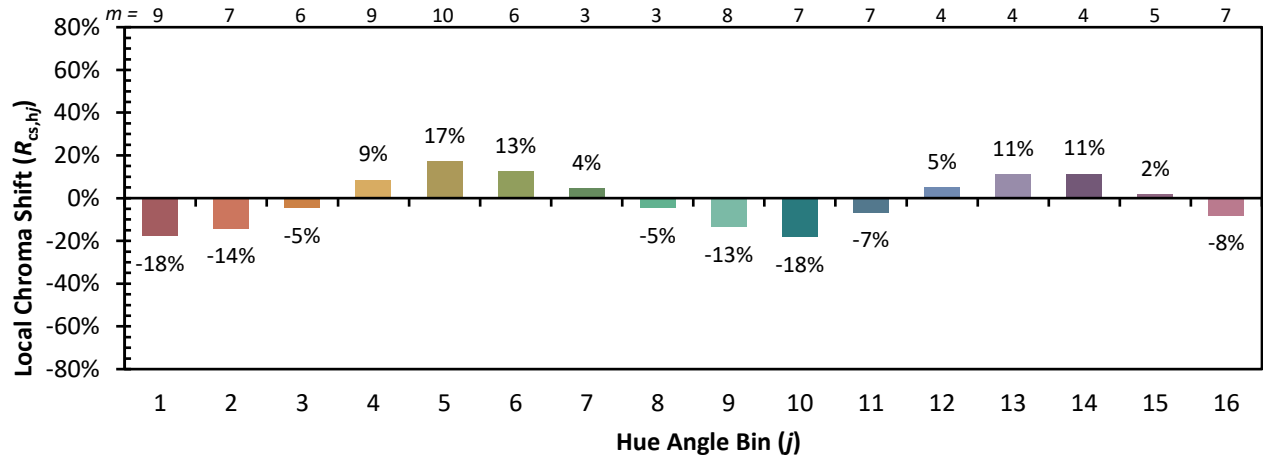
Color Vector Graphics



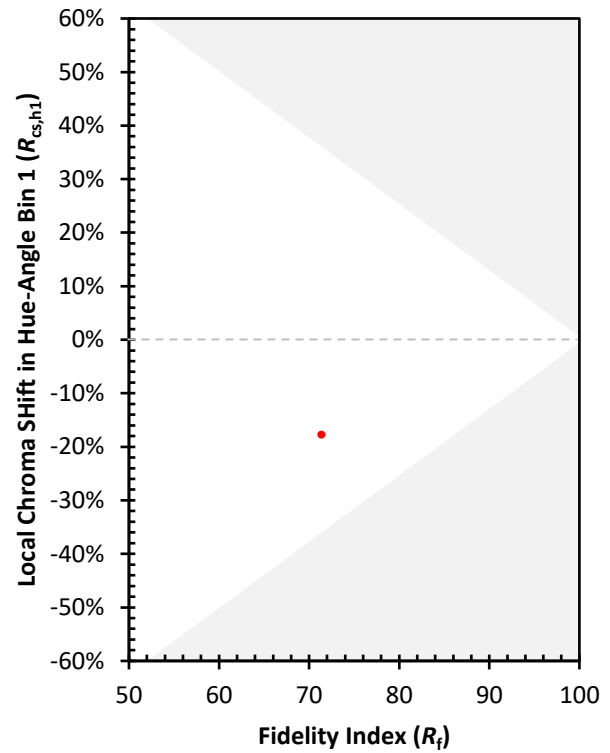
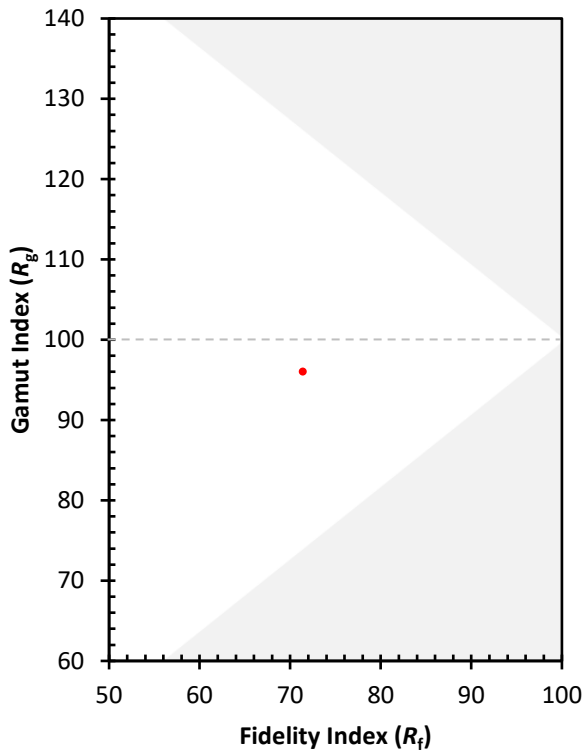
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)