

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: P1049633

Luminaire Tested: **GALN-SA8A-735-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049633
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 8xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25647.7 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

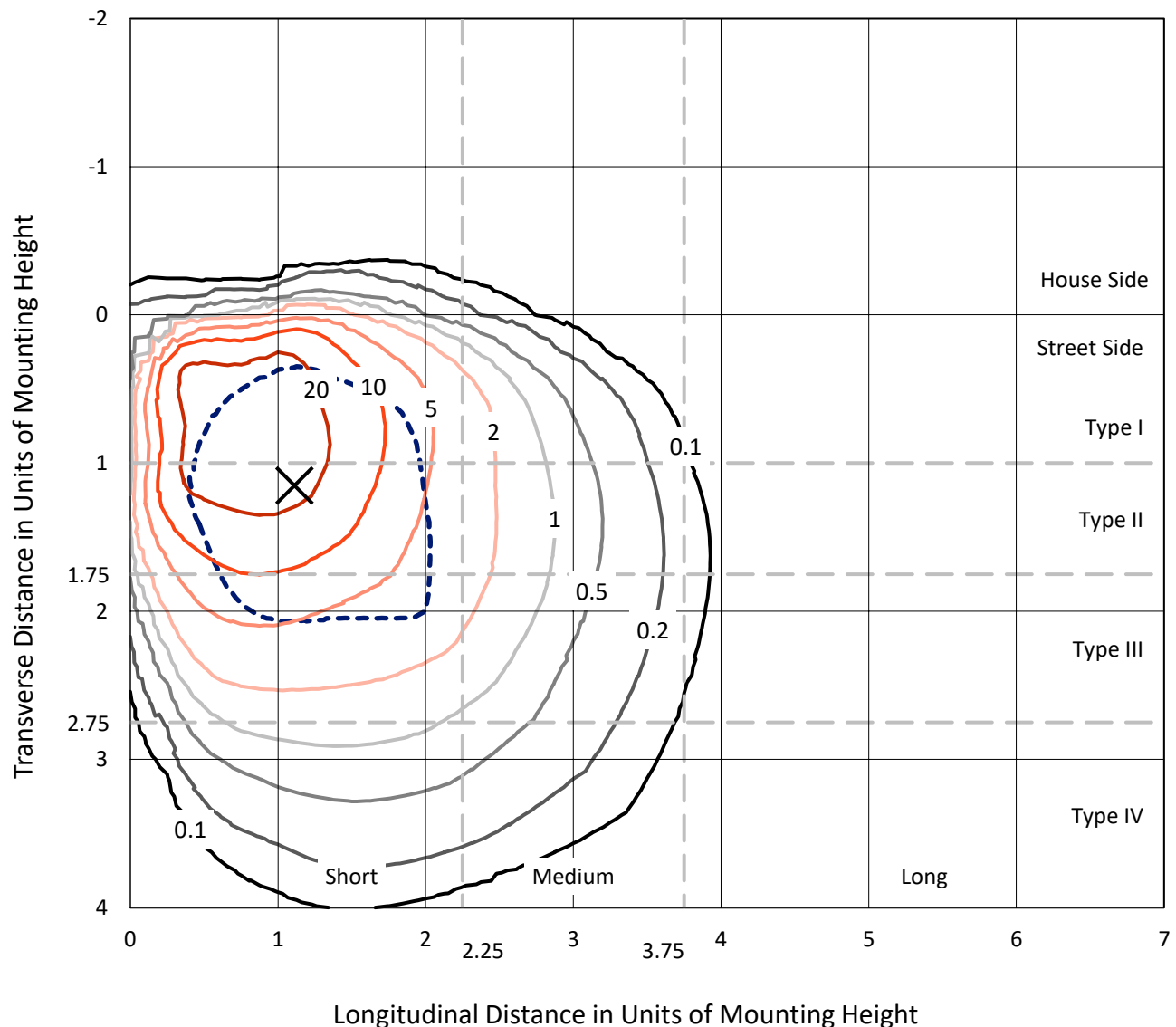
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

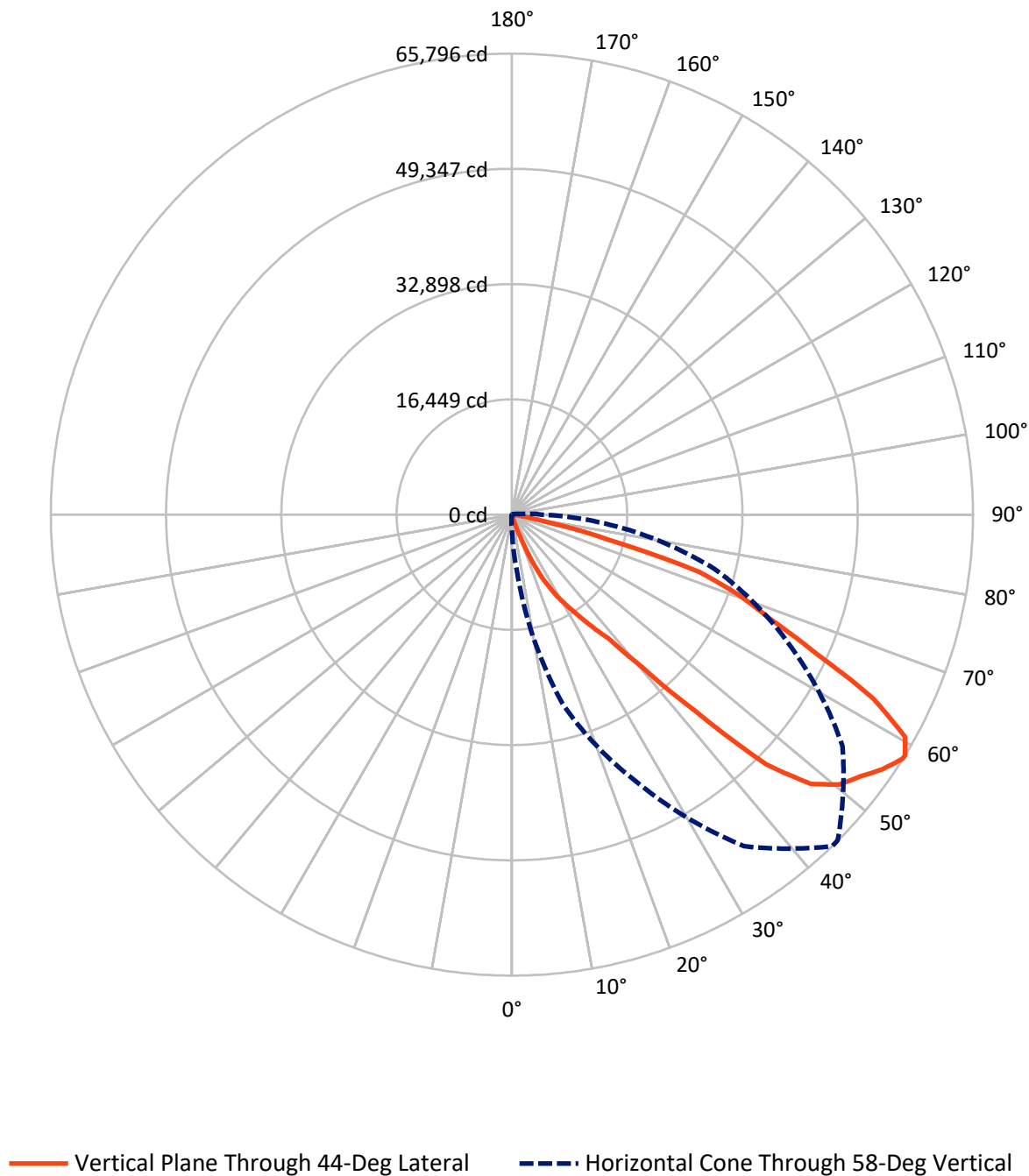


Based on 20 foot mounting height. Maximum calculated value = 44.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	175.1	0.0	175.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	25472.6	0.0	25472.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	25647.7	0.0	25647.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.0
10°-20°	56.2	0.2
20°-30°	607.6	2.4
30°-40°	1796.9	7.0
40°-50°	5355.6	20.9
50°-60°	8498.1	33.1
60°-70°	7088.4	27.6
70°-80°	2186.2	8.5
80°-90°	48.6	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°	25647.7	100.0
0°-180°	25647.7	100.0



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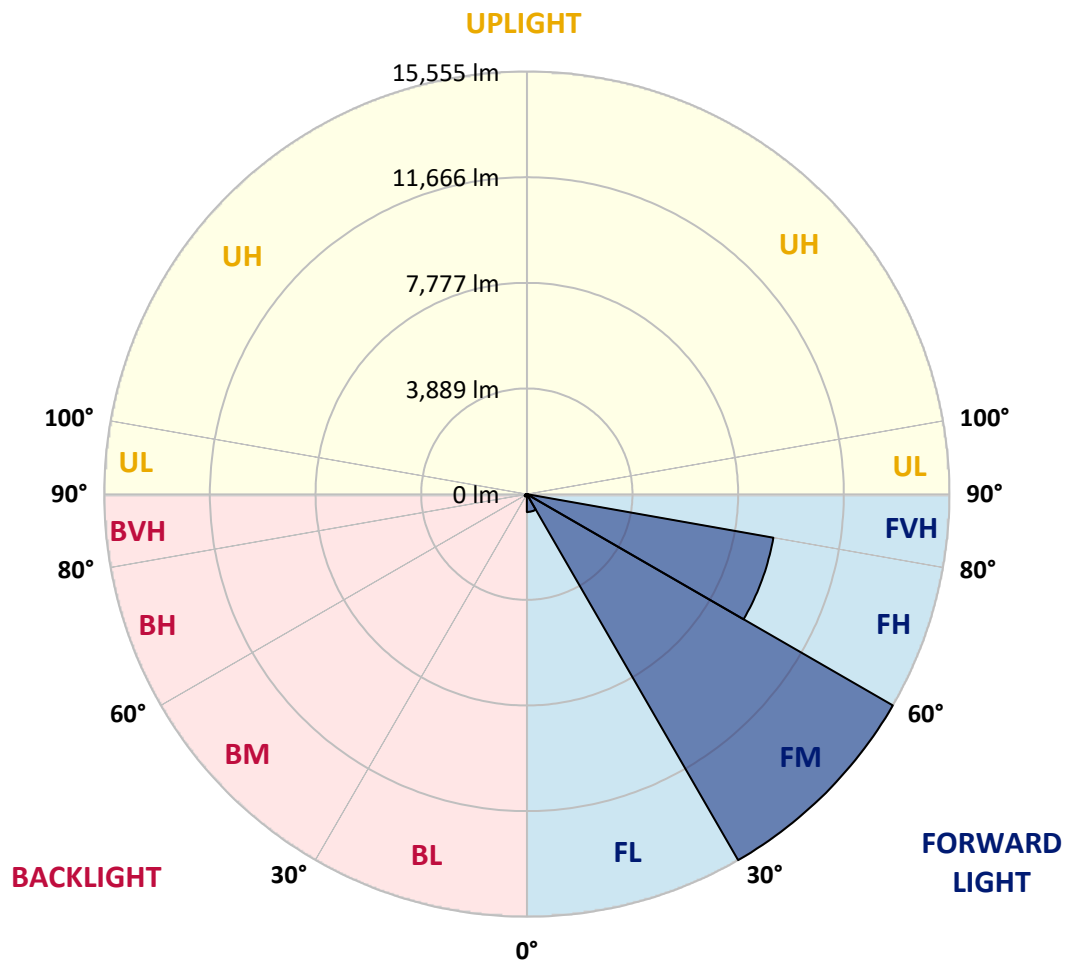
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	656.7	2.6			
FM	(30°-60°)	15554.8	60.6			
FH	(60°-80°)	9214.8	35.9			G4/12000
FVH	(80°-90°)	46.2	0.2			G1/100
BL	(0°-30°)	17.1	0.1	B0/110		
BM	(30°-60°)	95.8	0.4	B0/220		
BH	(60°-80°)	59.8	0.2	B0/110		G0/110
BVH	(80°-90°)	2.4	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4
2.5°	145.3	145.3	139.5	131.7	124.0	116.2	114.3	110.4	108.5	106.6
5°	151.1	151.1	149.2	143.4	135.6	129.8	129.8	124.0	120.1	116.2
7.5°	155.0	156.9	160.8	158.9	155.0	149.2	149.2	145.3	139.5	129.8
10°	160.8	166.6	174.4	178.2	180.2	180.2	178.2	176.3	166.6	153.1
12.5°	166.6	178.2	197.6	217.0	228.6	244.1	242.2	238.3	213.1	184.1
15°	178.2	195.7	236.4	292.6	379.7	434.0	455.3	435.9	352.6	248.0
17.5°	191.8	220.9	342.9	612.2	1003.6	1189.6	1302.0	1210.9	802.1	470.8
20°	205.4	269.3	637.4	1586.8	2604.0	3212.3	3380.9	3117.4	2001.4	897.0
22.5°	228.6	377.8	1292.3	3280.1	5610.9	6523.4	6695.9	5853.1	3780.0	1770.8
25°	277.1	548.3	2228.1	5345.5	8373.7	9914.0	9842.3	8738.0	6132.1	2828.7
27.5°	346.8	798.2	3369.3	7594.9	11020.3	12378.5	12541.2	11175.3	8174.2	4159.7
30°	447.6	1106.3	4593.7	9396.7	13141.8	14610.4	14637.5	13225.1	10001.2	5328.0
32.5°	544.4	1396.9	5665.1	11138.5	15232.3	16842.4	16962.5	15224.6	11365.2	6544.8
35°	618.1	1586.8	6750.1	12669.1	17340.3	19558.7	19551.0	17487.6	12981.0	7631.7
37.5°	623.9	1776.7	7732.4	14234.6	20010.1	22494.0	22740.0	20465.4	14934.0	8976.3
40°	610.3	1989.8	8976.3	16675.8	24820.9	28631.9	28848.8	25981.4	18851.5	11278.0
42.5°	625.8	2359.8	10995.1	21184.2	32809.0	38282.4	38700.9	35686.2	26053.1	15974.4
45°	707.2	3055.4	15224.6	28726.8	44195.5	50868.1	50728.6	46386.8	34432.6	23123.6
47.5°	976.5	4758.4	21494.2	36067.8	51472.6	57414.8	57534.9	52228.2	39322.8	28620.2
50°	1501.5	7281.0	26762.2	39948.6	54601.6	60563.2	60450.8	54318.8	41180.8	31326.9
52.5°	1953.0	9106.1	29404.9	41310.6	55002.7	62119.0	62111.2	54869.0	41469.5	31559.4
55°	2065.3	9243.6	29426.2	41384.2	55901.7	64155.3	64411.0	56223.3	41843.4	30544.1
57.5°	2020.8	8183.9	28197.9	41810.5	57502.0	65730.4	65744.0	57534.9	42792.8	29922.2
58°	1982.0	8017.2	27949.9	42052.7	57777.1	65796.3	65763.4	57595.0	43565.8	29899.0
60°	1765.0	6961.3	26983.1	42670.7	57368.3	64443.9	64135.9	56283.3	43451.5	29660.6
62.5°	1387.2	5430.7	26031.8	41955.8	52985.8	57897.3	58025.1	49829.7	39611.5	28271.5
65°	1104.4	4047.4	24047.8	36802.1	43631.7	47545.4	48022.0	40520.1	33062.8	23939.3
67.5°	879.6	2925.6	20172.9	29300.3	34525.6	39681.2	40028.0	34019.9	25615.2	18342.0
70°	714.9	1978.2	13924.6	21428.4	28476.9	34273.7	34295.1	28261.8	19118.9	12018.1
72.5°	633.6	1369.8	8083.1	15627.6	23090.7	27928.6	27364.8	22933.8	14693.7	7118.2
75°	548.3	908.7	3964.1	9553.6	14000.1	14095.1	14310.1	10638.6	7344.9	3384.8
77.5°	451.4	645.2	1561.6	2609.8	4198.5	5374.5	5574.1	4223.7	2443.1	833.1
80°	310.0	306.1	420.4	800.2	1201.2	1505.4	1404.7	1086.9	639.4	319.7
82.5°	133.7	145.3	189.9	228.6	186.0	180.2	172.4	110.4	85.2	65.9
85°	42.6	38.7	40.7	40.7	32.9	25.2	25.2	11.6	0.0	0.0
87.5°	21.3	17.4	17.4	15.5	9.7	3.9	1.9	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°
112.4	0°	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4
104.6	2.5°	102.7	102.7	98.8	94.9	93.0	89.1	87.2	85.2	83.3	81.4
112.4	5°	108.5	106.6	100.7	94.9	89.1	83.3	79.4	75.6	71.7	69.7
124.0	7.5°	118.2	114.3	102.7	93.0	85.2	77.5	73.6	67.8	63.9	58.1
137.6	10°	129.8	122.1	106.6	94.9	83.3	73.6	67.8	62.0	56.2	48.4
156.9	12.5°	145.3	131.7	112.4	93.0	79.4	67.8	62.0	54.2	48.4	42.6
182.1	15°	158.9	141.4	114.3	93.0	75.6	62.0	54.2	46.5	40.7	32.9
228.6	17.5°	178.2	149.2	112.4	87.2	69.7	54.2	46.5	40.7	31.0	19.4
339.1	20°	211.2	155.0	108.5	81.4	60.1	44.6	34.9	27.1	13.6	3.9
509.6	22.5°	263.5	170.5	104.6	73.6	52.3	34.9	23.2	9.7	0.0	0.0
775.0	25°	364.2	197.6	104.6	69.7	46.5	25.2	7.7	0.0	0.0	0.0
1100.5	27.5°	484.4	234.4	104.6	60.1	36.8	13.6	0.0	0.0	0.0	0.0
1499.6	30°	606.4	275.1	104.6	52.3	29.1	1.9	0.0	0.0	0.0	0.0
1846.4	32.5°	722.7	310.0	106.6	44.6	19.4	0.0	0.0	0.0	0.0	0.0
2326.9	35°	840.9	315.8	104.6	38.7	11.6	0.0	0.0	0.0	0.0	0.0
2915.9	37.5°	992.0	304.2	98.8	34.9	5.8	0.0	0.0	0.0	0.0	0.0
3836.2	40°	1220.6	310.0	93.0	32.9	1.9	0.0	0.0	0.0	0.0	0.0
5477.2	42.5°	1643.0	335.2	85.2	32.9	0.0	0.0	0.0	0.0	0.0	0.0
8724.4	45°	2840.3	449.5	77.5	34.9	0.0	0.0	0.0	0.0	0.0	0.0
13097.3	47.5°	4698.4	807.9	75.6	34.9	0.0	0.0	0.0	0.0	0.0	0.0
15776.8	50°	5996.5	1017.2	79.4	36.8	0.0	0.0	0.0	0.0	0.0	0.0
16112.0	52.5°	5986.8	1133.4	83.3	38.7	7.7	0.0	0.0	0.0	0.0	0.0
14850.7	55°	5322.2	1154.7	89.1	42.6	25.2	0.0	0.0	0.0	0.0	0.0
12762.1	57.5°	4448.4	1054.0	102.7	52.3	46.5	0.0	0.0	0.0	0.0	0.0
12434.6	58°	4293.4	1007.5	106.6	54.2	50.4	0.0	0.0	0.0	0.0	0.0
10785.9	60°	3518.4	821.5	135.6	67.8	67.8	0.0	0.0	0.0	0.0	0.0
8842.6	62.5°	2429.6	716.9	155.0	87.2	69.7	0.0	0.0	0.0	0.0	0.0
6519.6	65°	1718.5	647.1	168.6	93.0	56.2	0.0	0.0	0.0	0.0	0.0
4632.5	67.5°	1284.5	596.7	186.0	94.9	29.1	0.0	0.0	0.0	0.0	0.0
2906.2	70°	984.2	559.9	228.6	100.7	7.7	0.0	0.0	0.0	0.0	0.0
1732.1	72.5°	802.1	517.3	277.1	104.6	0.0	0.0	0.0	0.0	0.0	0.0
1038.5	75°	664.6	466.9	267.4	114.3	0.0	0.0	0.0	0.0	0.0	0.0
554.1	77.5°	441.7	362.3	244.1	114.3	0.0	0.0	0.0	0.0	0.0	0.0
197.6	80°	155.0	143.4	189.9	100.7	0.0	0.0	0.0	0.0	0.0	0.0
40.7	82.5°	23.2	19.4	27.1	34.9	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°
112.4	0°	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4
79.4	2.5°	79.4	79.4	77.5	79.4	79.4	83.3	93.0	106.6	122.1	127.9
67.8	5°	65.9	63.9	62.0	62.0	62.0	67.8	75.6	91.1	108.5	116.2
56.2	7.5°	54.2	52.3	50.4	48.4	48.4	52.3	62.0	79.4	96.9	104.6
46.5	10°	44.6	40.7	38.7	36.8	36.8	40.7	50.4	67.8	87.2	94.9
38.7	12.5°	36.8	31.0	27.1	25.2	23.2	29.1	38.7	54.2	75.6	85.2
29.1	15°	25.2	19.4	13.6	11.6	9.7	15.5	25.2	42.6	63.9	75.6
15.5	17.5°	13.6	5.8	1.9	0.0	0.0	3.9	11.6	31.0	52.3	62.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	38.7	48.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	23.2	32.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	17.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
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	5.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	15.5
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°
112.4	0°	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4
133.7	2.5°	137.6	135.6	131.7	127.9	127.9	127.9	133.7	139.5	145.3	145.3
120.1	5°	127.9	127.9	125.9	122.1	122.1	124.0	131.7	141.4	149.2	151.1
110.4	7.5°	118.2	122.1	118.2	116.2	118.2	120.1	127.9	139.5	151.1	155.0
102.7	10°	112.4	114.3	114.3	112.4	112.4	116.2	124.0	139.5	155.0	160.8
93.0	12.5°	104.6	108.5	106.6	106.6	106.6	110.4	120.1	137.6	158.9	166.6
83.3	15°	96.9	102.7	102.7	100.7	100.7	102.7	116.2	135.6	164.7	178.2
71.7	17.5°	89.1	94.9	96.9	93.0	93.0	96.9	110.4	135.6	168.6	191.8
58.1	20°	73.6	83.3	89.1	83.3	83.3	87.2	100.7	127.9	170.5	205.4
42.6	22.5°	58.1	67.8	75.6	73.6	73.6	75.6	93.0	122.1	172.4	228.6
25.2	25°	42.6	52.3	58.1	62.0	62.0	67.8	85.2	118.2	180.2	277.1
11.6	27.5°	25.2	36.8	44.6	48.4	50.4	58.1	79.4	114.3	193.7	346.8
0.0	30°	11.6	21.3	31.0	38.7	38.7	52.3	73.6	110.4	211.2	447.6
0.0	32.5°	0.0	9.7	15.5	27.1	29.1	42.6	67.8	106.6	236.4	544.4
0.0	35°	0.0	0.0	7.7	21.3	21.3	34.9	62.0	102.7	275.1	618.1
0.0	37.5°	0.0	0.0	0.0	15.5	17.4	31.0	60.1	100.7	282.9	623.9
0.0	40°	0.0	0.0	0.0	11.6	13.6	29.1	60.1	102.7	255.7	610.3
0.0	42.5°	0.0	0.0	0.0	7.7	9.7	29.1	60.1	106.6	230.6	625.8
0.0	45°	0.0	0.0	0.0	5.8	7.7	31.0	58.1	104.6	217.0	707.2
0.0	47.5°	0.0	0.0	0.0	7.7	11.6	31.0	56.2	102.7	218.9	976.5
0.0	50°	0.0	0.0	0.0	9.7	13.6	31.0	58.1	98.8	240.2	1501.5
0.0	52.5°	0.0	0.0	0.0	7.7	11.6	34.9	63.9	96.9	261.6	1953.0
0.0	55°	0.0	0.0	0.0	1.9	5.8	44.6	69.7	96.9	294.5	2065.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	50.4	79.4	102.7	348.7	2020.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	50.4	81.4	102.7	352.6	1982.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	50.4	89.1	114.3	379.7	1765.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	42.6	106.6	143.4	395.2	1387.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	34.9	125.9	156.9	406.9	1104.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	32.9	129.8	158.9	412.7	879.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	34.9	127.9	170.5	432.1	714.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	38.7	116.2	187.9	432.1	633.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	40.7	108.5	211.2	393.3	548.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	38.7	106.6	246.1	350.7	451.4
0.0	80°	3.9	5.8	5.8	3.9	3.9	32.9	104.6	249.9	298.4	310.0
1.9	82.5°	11.6	15.5	13.6	9.7	9.7	29.1	93.0	209.2	155.0	133.7
11.6	85°	21.3	25.2	25.2	21.3	21.3	27.1	58.1	75.6	52.3	42.6
21.3	87.5°	29.1	32.9	32.9	29.1	29.1	27.1	25.2	23.2	21.3	21.3
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

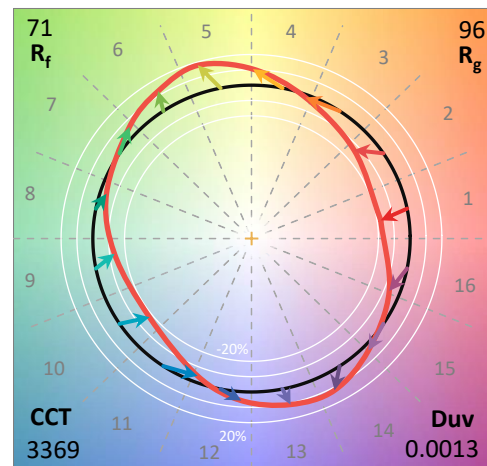
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

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

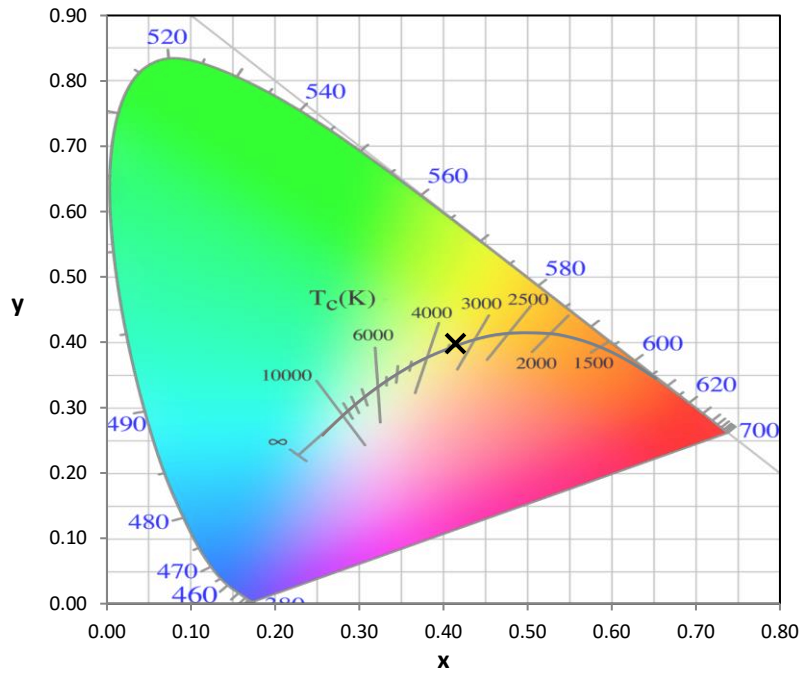
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

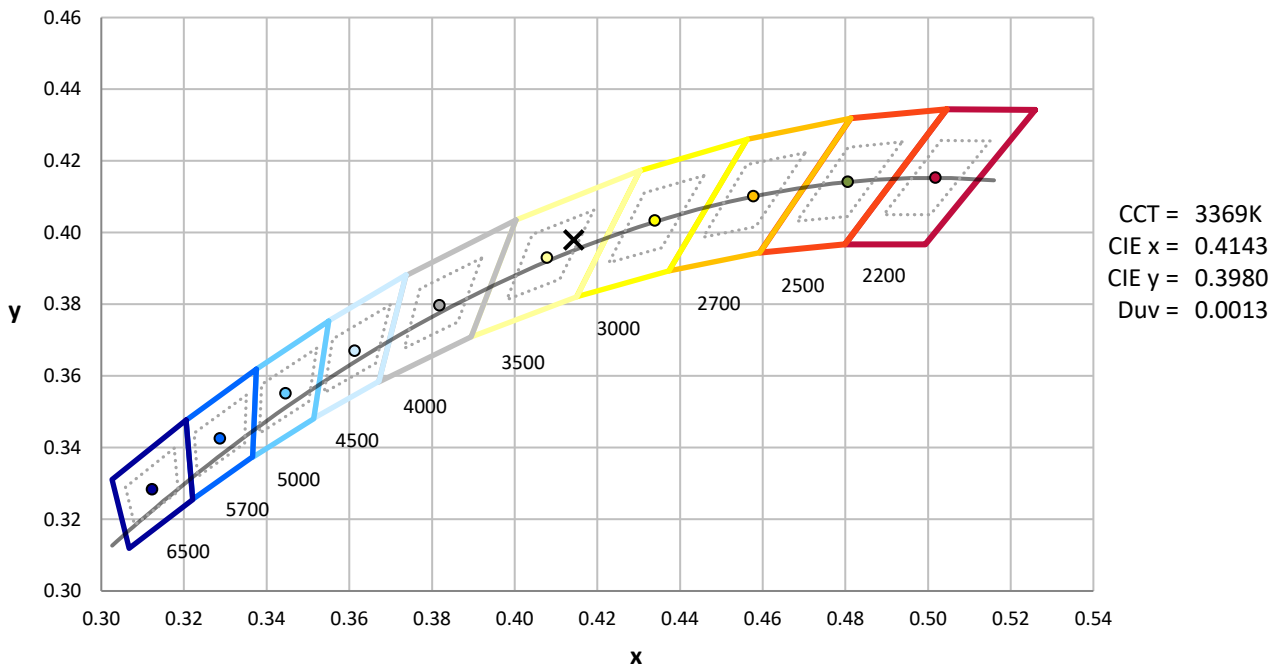
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



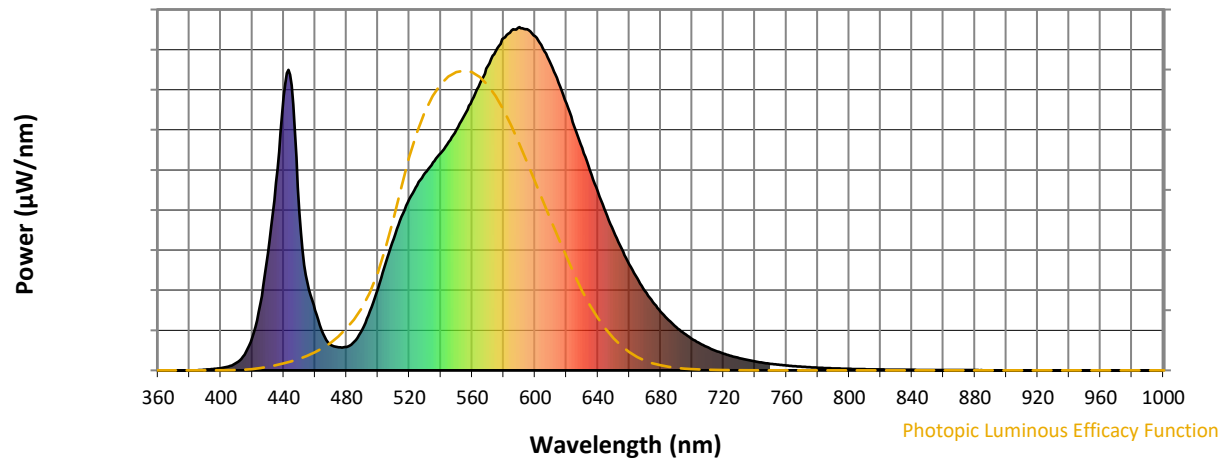
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

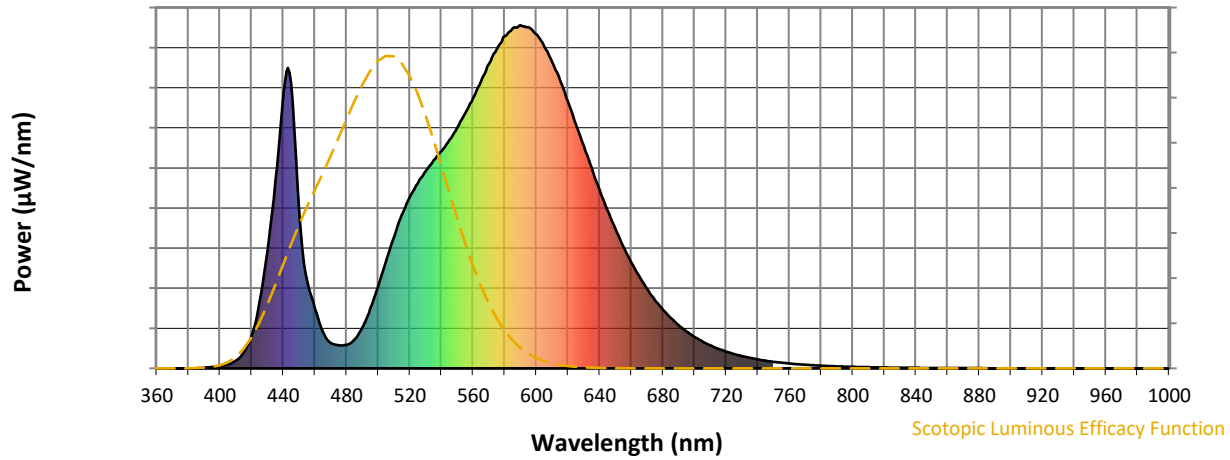


Photopic Lumens: NR

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



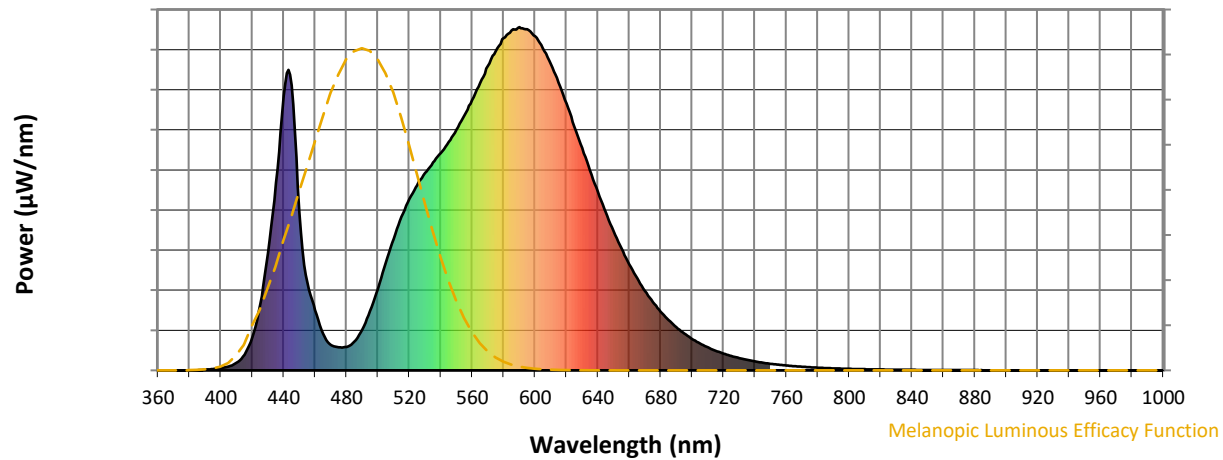
Scotopic Lumens: NR

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

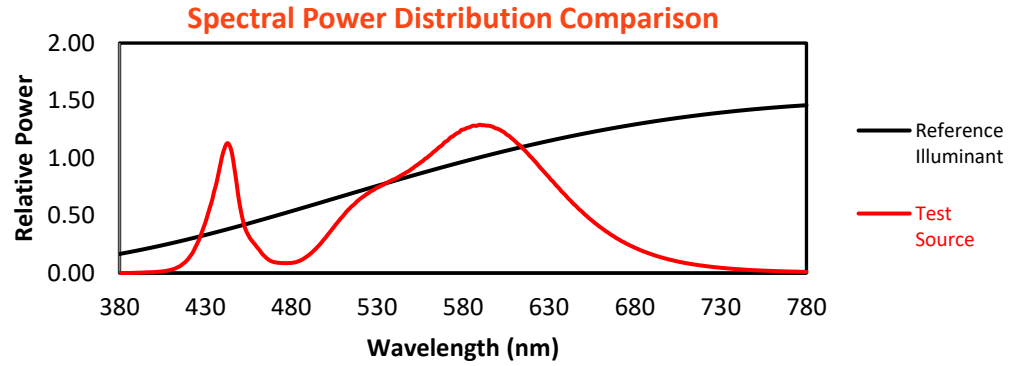
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	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

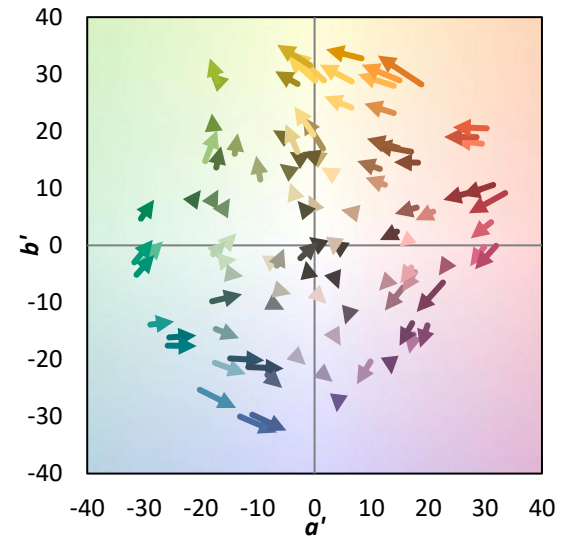
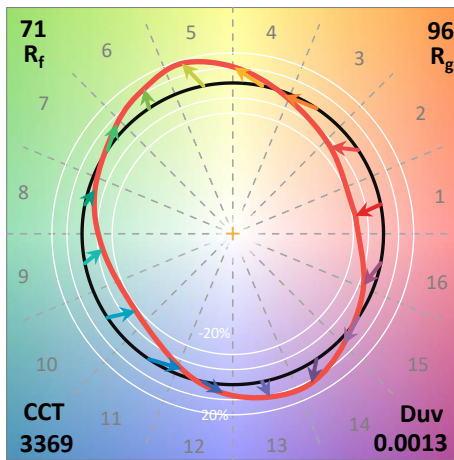
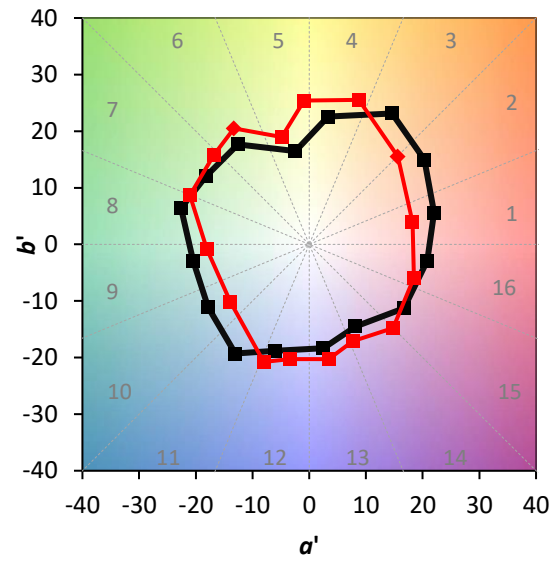
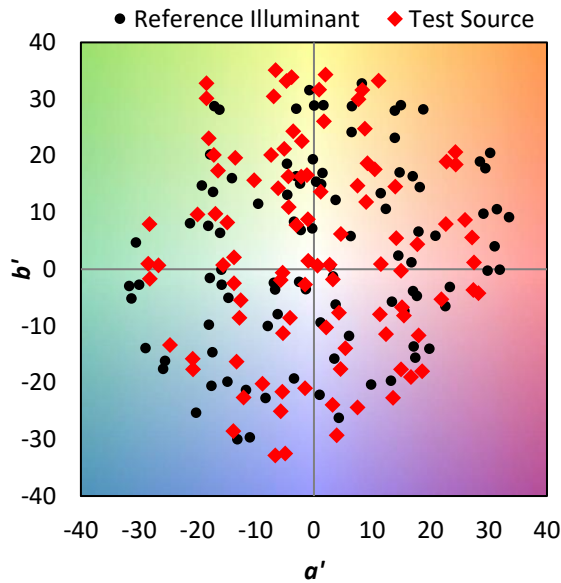
TM-30-18

Summary

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

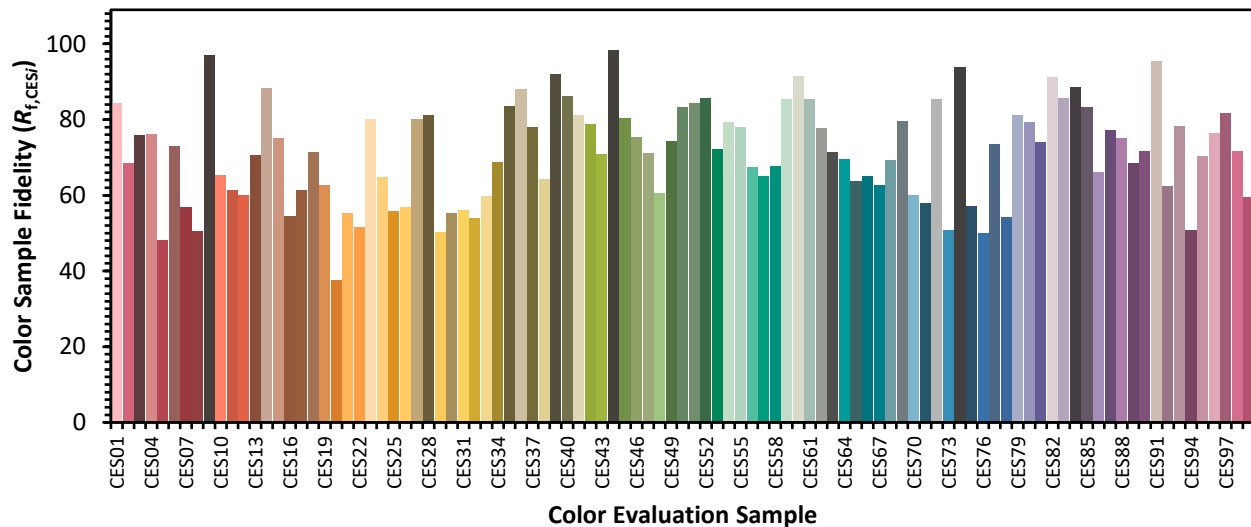


Color Vector Graphics

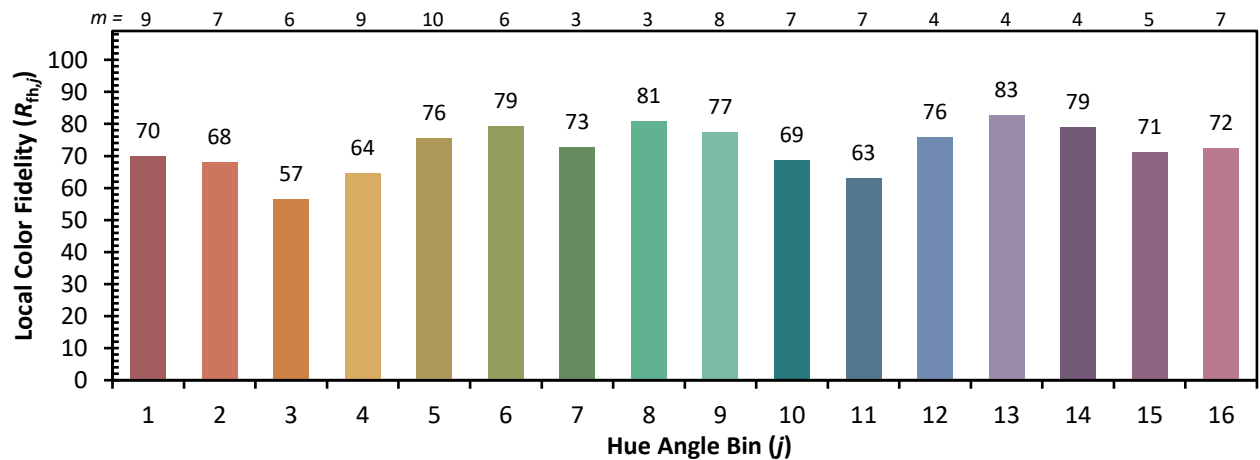
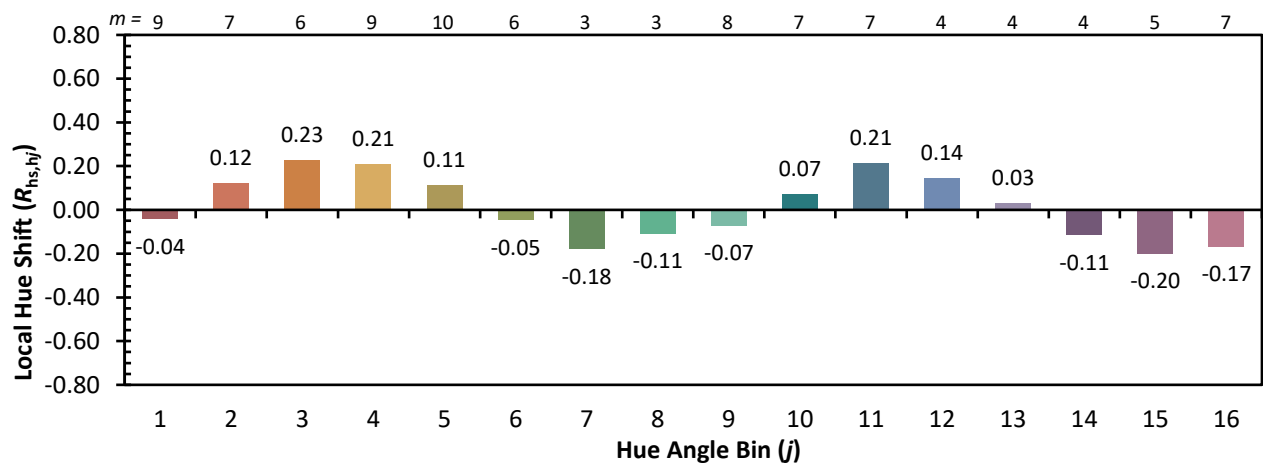
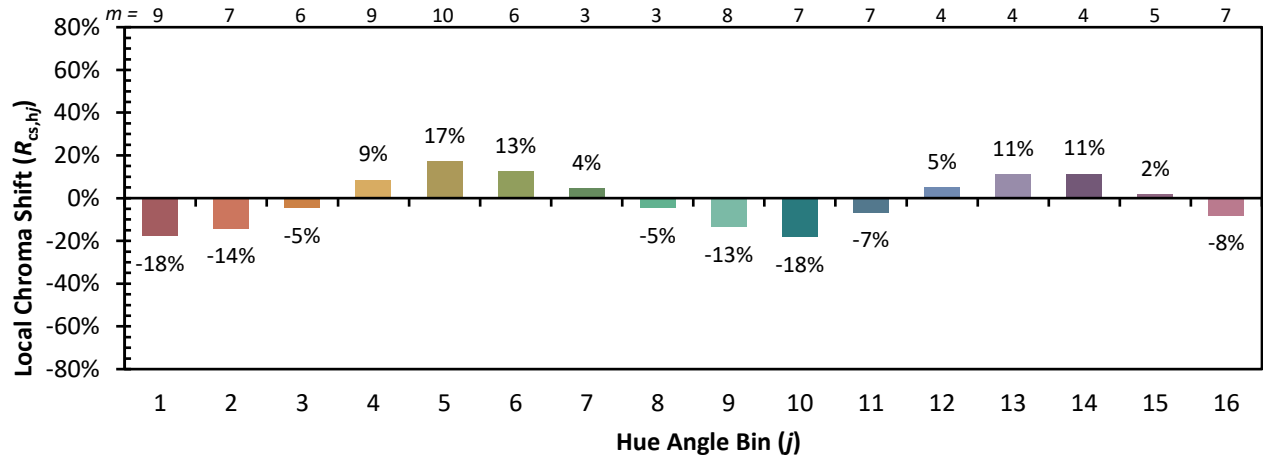


Individual Sample Fidelity Index ($R_{f,i}$)

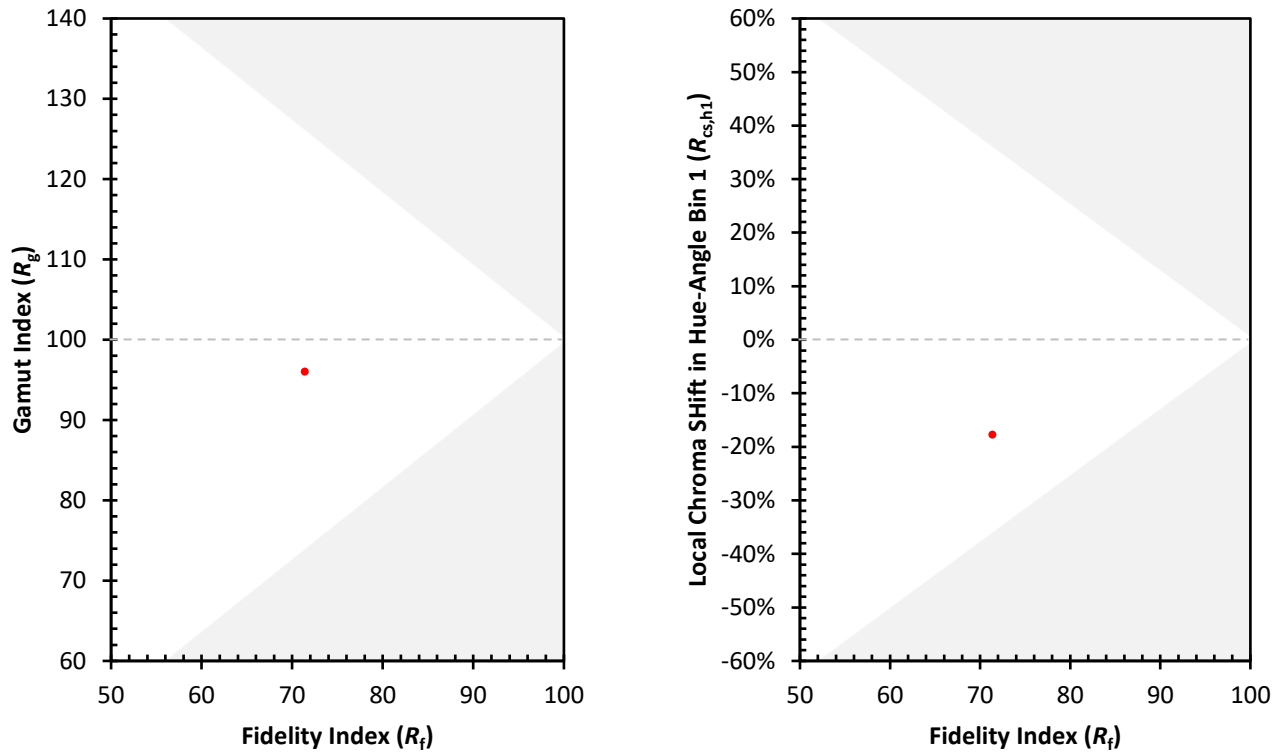
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 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)