

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: P1049638

Luminaire Tested: **GALN-SA9B-735-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049638
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 9xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35562.6 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G5

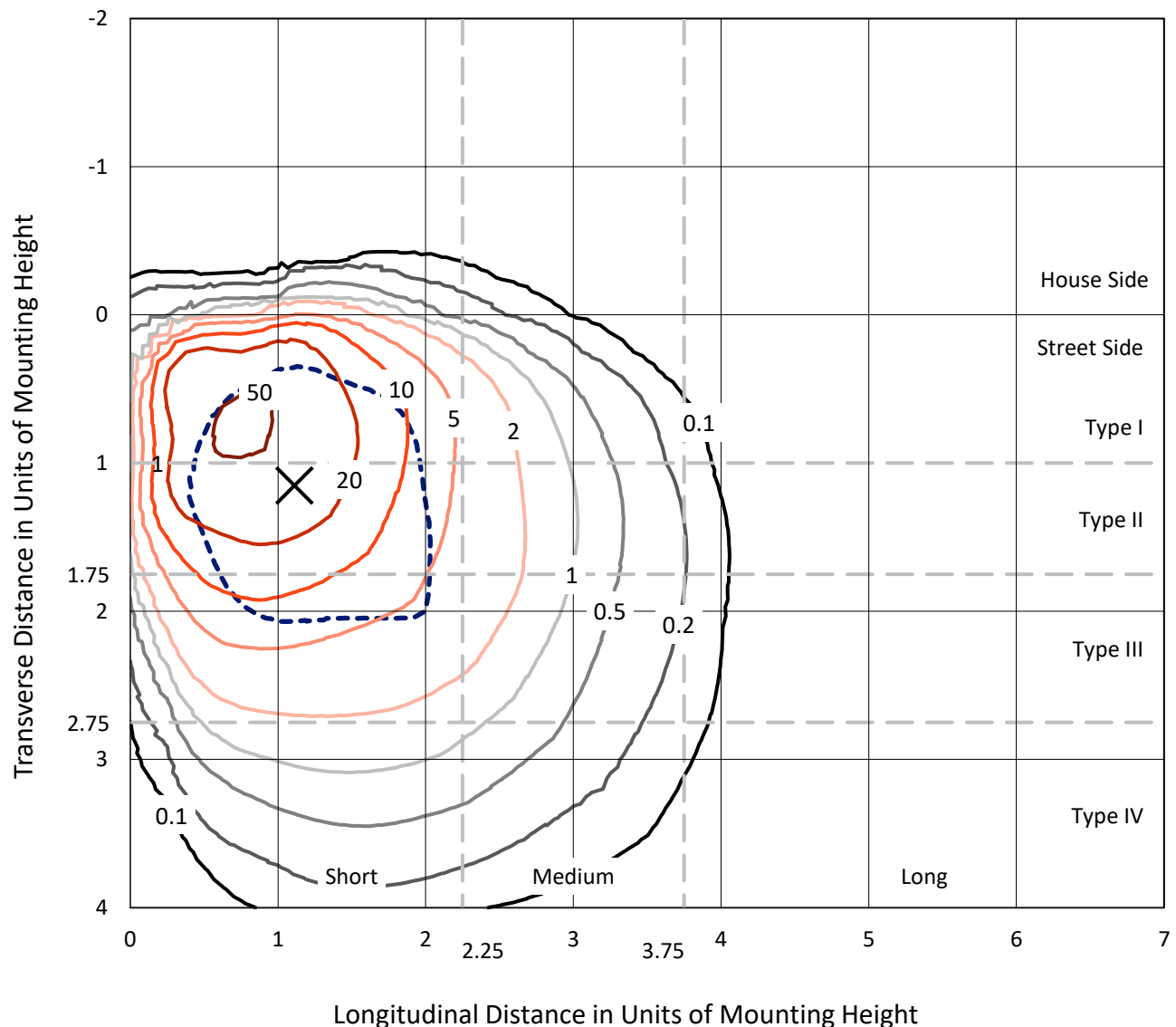
Input Watts (W): 312.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

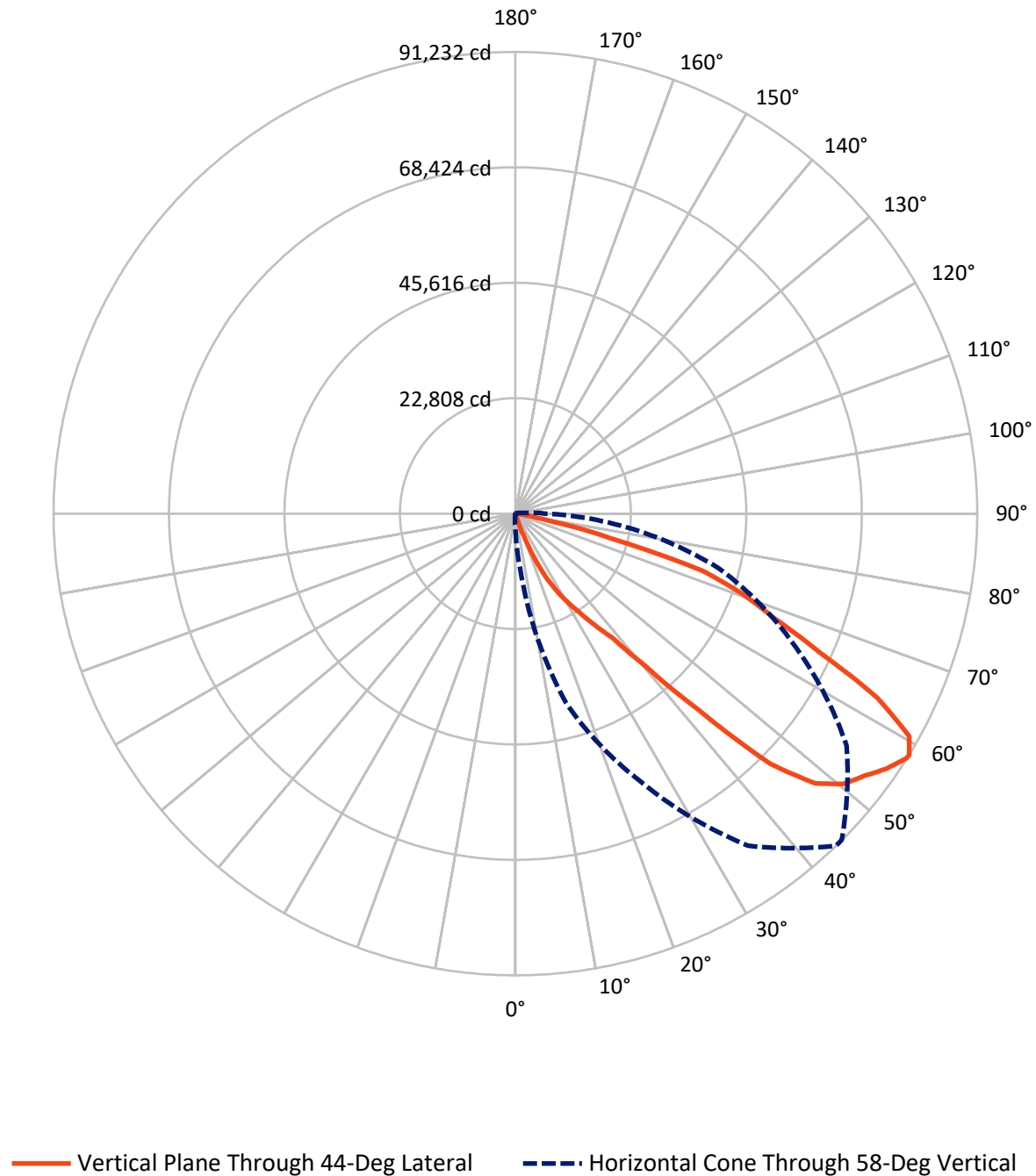
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 61.9 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	242.8	0.0	242.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	35319.8	0.0	35319.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	35562.6	0.0	35562.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.9	0.0
10°-20°	78.0	0.2
20°-30°	842.5	2.4
30°-40°	2491.5	7.0
40°-50°	7426.0	20.9
50°-60°	11783.3	33.1
60°-70°	9828.7	27.6
70°-80°	3031.3	8.5
80°-90°	67.3	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°	35562.6	100.0
0°-180°	35562.6	100.0



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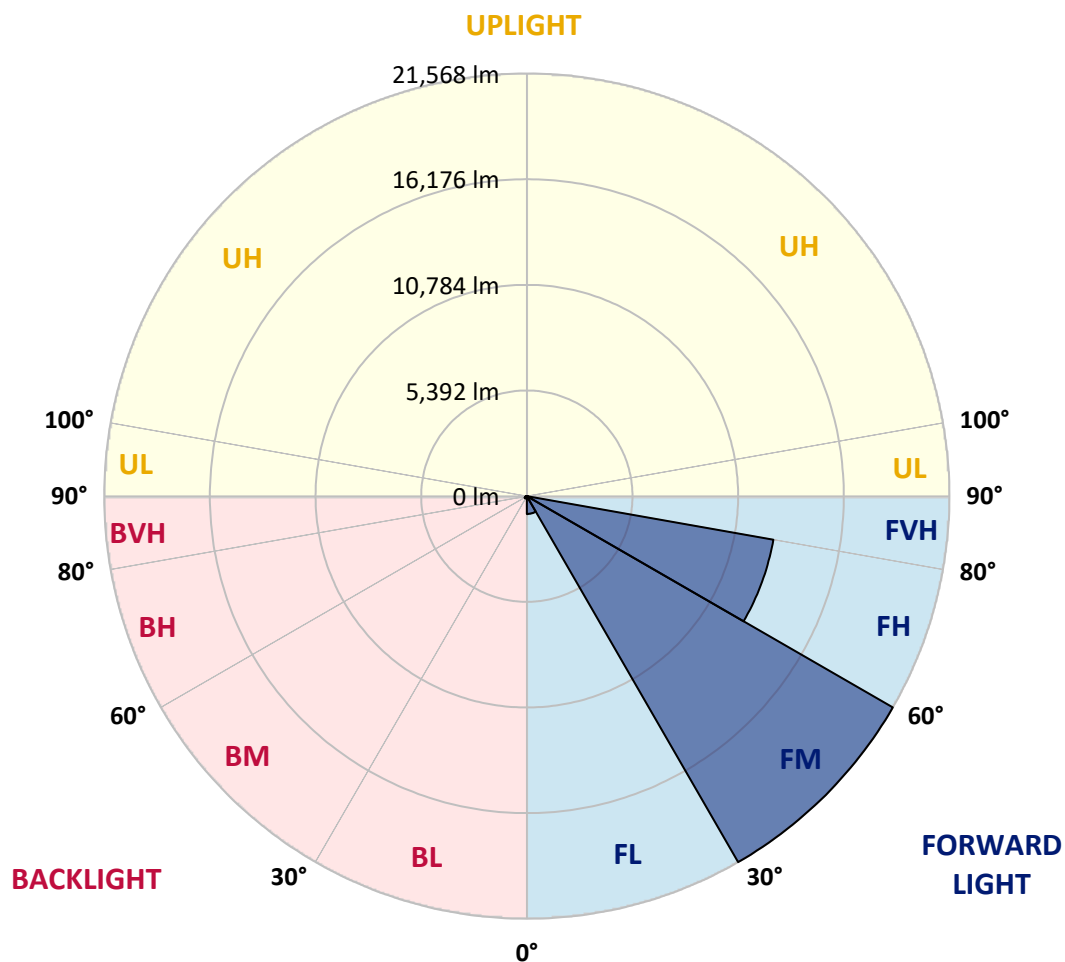
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	910.6	2.6			
FM	(30°-60°)	21568.0	60.6			
FH	(60°-80°)	12777.1	35.9			G5
FVH	(80°-90°)	64.1	0.2			G1/100
BL	(0°-30°)	23.8	0.1	B0/110		
BM	(30°-60°)	132.9	0.4	B0/220		
BH	(60°-80°)	82.9	0.2	B0/110		G0/110
BVH	(80°-90°)	3.3	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
2.5°	201.5	201.5	193.4	182.7	171.9	161.2	158.5	153.1	150.4	147.8
5°	209.5	209.5	206.9	198.8	188.1	180.0	180.0	171.9	166.6	161.2
7.5°	214.9	217.6	223.0	220.3	214.9	206.9	206.9	201.5	193.4	180.0
10°	223.0	231.0	241.8	247.2	249.8	249.8	247.2	244.5	231.0	212.2
12.5°	231.0	247.2	274.0	300.9	317.0	338.5	335.8	330.4	295.5	255.2
15°	247.2	271.3	327.7	405.7	526.5	601.8	631.3	604.5	488.9	343.9
17.5°	266.0	306.3	475.5	848.9	1391.6	1649.5	1805.3	1679.0	1112.2	652.8
20°	284.8	373.4	883.8	2200.2	3610.6	4454.1	4687.9	4322.5	2775.1	1243.8
22.5°	317.0	523.9	1791.9	4548.2	7780.0	9045.3	9284.4	8115.8	5241.3	2455.4
25°	384.2	760.3	3089.4	7411.9	11610.9	13746.6	13647.2	12115.9	8502.6	3922.2
27.5°	480.9	1106.8	4671.7	10530.9	15280.5	17163.8	17389.4	15495.5	11334.1	5767.8
30°	620.6	1534.0	6369.6	13029.3	18222.2	20258.5	20296.2	18337.7	13867.5	7387.7
32.5°	754.9	1936.9	7855.2	15444.4	21120.9	23353.3	23519.9	21110.2	15758.7	9074.8
35°	857.0	2200.2	9359.6	17566.7	24043.8	27119.8	27109.0	24247.9	17999.2	10581.9
37.5°	865.0	2463.5	10721.6	19737.4	27745.7	31189.7	31530.9	28377.0	20707.2	12446.3
40°	846.2	2759.0	12446.3	23122.3	34416.2	39700.4	40001.3	36025.3	26139.2	15637.8
42.5°	867.7	3272.1	15245.6	29373.7	45492.4	53081.6	53661.9	49481.8	36124.7	22149.8
45°	980.6	4236.5	21110.2	39832.1	61280.7	70532.8	70339.4	64319.1	47743.7	32062.8
47.5°	1354.0	6597.9	29803.5	50011.0	71371.0	79610.4	79776.9	72418.7	54524.3	39684.3
50°	2082.0	10095.7	37108.0	55392.0	75709.6	83975.9	83820.0	75317.4	57100.6	43437.3
52.5°	2707.9	12626.3	40772.3	57280.6	76265.7	86133.1	86122.3	76080.4	57500.9	43759.6
55°	2863.8	12817.1	40801.9	57382.7	77512.3	88956.5	89311.2	77958.2	58019.3	42351.9
57.5°	2802.0	11347.6	39098.6	57973.7	79731.3	91140.6	91159.4	79776.9	59335.7	41489.6
58°	2748.2	11116.5	38754.8	58309.5	80112.7	91232.0	91186.3	79860.2	60407.6	41457.4
60°	2447.4	9652.4	37414.2	59166.5	79545.9	89356.8	88929.7	78041.5	60249.1	41126.9
62.5°	1923.5	7530.1	36095.2	58175.2	73469.1	80279.3	80456.6	69092.9	54924.5	39200.7
65°	1531.3	5612.0	33344.3	51029.2	60498.9	65925.6	66586.4	56184.5	45844.3	33193.8
67.5°	1219.7	4056.5	27971.4	40627.2	47872.6	55021.3	55502.1	47171.4	35517.6	25432.7
70°	991.3	2742.9	19307.5	29712.2	39485.5	47523.4	47552.9	39187.3	26509.9	16664.1
72.5°	878.5	1899.3	11207.9	21668.9	32017.2	38725.2	37943.5	31799.6	20374.1	9870.0
75°	760.3	1259.9	5496.5	13246.9	19412.3	19544.0	19842.1	14751.3	10184.3	4693.2
77.5°	625.9	894.6	2165.3	3618.7	5821.5	7452.2	7728.9	5856.5	3387.6	1155.2
80°	429.8	424.5	583.0	1109.5	1665.6	2087.4	1947.7	1507.1	886.5	443.3
82.5°	185.4	201.5	263.3	317.0	257.9	249.8	239.1	153.1	118.2	91.3
85°	59.1	53.7	56.4	56.4	45.7	34.9	34.9	16.1	0.0	0.0
87.5°	29.6	24.2	24.2	21.5	13.4	5.4	2.7	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°
155.8	0°	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
145.1	2.5°	142.4	142.4	137.0	131.6	128.9	123.6	120.9	118.2	115.5	112.8
155.8	5°	150.4	147.8	139.7	131.6	123.6	115.5	110.1	104.8	99.4	96.7
171.9	7.5°	163.9	158.5	142.4	128.9	118.2	107.5	102.1	94.0	88.7	80.6
190.7	10°	180.0	169.2	147.8	131.6	115.5	102.1	94.0	86.0	77.9	67.2
217.6	12.5°	201.5	182.7	155.8	128.9	110.1	94.0	86.0	75.2	67.2	59.1
252.5	15°	220.3	196.1	158.5	128.9	104.8	86.0	75.2	64.5	56.4	45.7
317.0	17.5°	247.2	206.9	155.8	120.9	96.7	75.2	64.5	56.4	43.0	26.9
470.1	20°	292.8	214.9	150.4	112.8	83.3	61.8	48.4	37.6	18.8	5.4
706.5	22.5°	365.4	236.4	145.1	102.1	72.5	48.4	32.2	13.4	0.0	0.0
1074.6	25°	505.1	274.0	145.1	96.7	64.5	34.9	10.7	0.0	0.0	0.0
1525.9	27.5°	671.6	325.1	145.1	83.3	51.0	18.8	0.0	0.0	0.0	0.0
2079.3	30°	840.9	381.5	145.1	72.5	40.3	2.7	0.0	0.0	0.0	0.0
2560.2	32.5°	1002.0	429.8	147.8	61.8	26.9	0.0	0.0	0.0	0.0	0.0
3226.4	35°	1165.9	437.9	145.1	53.7	16.1	0.0	0.0	0.0	0.0	0.0
4043.1	37.5°	1375.5	421.8	137.0	48.4	8.1	0.0	0.0	0.0	0.0	0.0
5319.2	40°	1692.5	429.8	128.9	45.7	2.7	0.0	0.0	0.0	0.0	0.0
7594.6	42.5°	2278.1	464.8	118.2	45.7	0.0	0.0	0.0	0.0	0.0	0.0
12097.1	45°	3938.3	623.3	107.5	48.4	0.0	0.0	0.0	0.0	0.0	0.0
18160.4	47.5°	6514.7	1120.3	104.8	48.4	0.0	0.0	0.0	0.0	0.0	0.0
21875.8	50°	8314.6	1410.4	110.1	51.0	0.0	0.0	0.0	0.0	0.0	0.0
22340.5	52.5°	8301.1	1571.6	115.5	53.7	10.7	0.0	0.0	0.0	0.0	0.0
20591.7	55°	7379.7	1601.1	123.6	59.1	34.9	0.0	0.0	0.0	0.0	0.0
17695.7	57.5°	6168.1	1461.4	142.4	72.5	64.5	0.0	0.0	0.0	0.0	0.0
17241.7	58°	5953.2	1397.0	147.8	75.2	69.8	0.0	0.0	0.0	0.0	0.0
14955.5	60°	4878.6	1139.1	188.1	94.0	94.0	0.0	0.0	0.0	0.0	0.0
12261.0	62.5°	3368.8	994.0	214.9	120.9	96.7	0.0	0.0	0.0	0.0	0.0
9039.9	65°	2382.9	897.3	233.7	128.9	77.9	0.0	0.0	0.0	0.0	0.0
6423.3	67.5°	1781.1	827.4	257.9	131.6	40.3	0.0	0.0	0.0	0.0	0.0
4029.7	70°	1364.7	776.4	317.0	139.7	10.7	0.0	0.0	0.0	0.0	0.0
2401.7	72.5°	1112.2	717.3	384.2	145.1	0.0	0.0	0.0	0.0	0.0	0.0
1439.9	75°	921.5	647.4	370.7	158.5	0.0	0.0	0.0	0.0	0.0	0.0
768.3	77.5°	612.5	502.4	338.5	158.5	0.0	0.0	0.0	0.0	0.0	0.0
274.0	80°	214.9	198.8	263.3	139.7	0.0	0.0	0.0	0.0	0.0	0.0
56.4	82.5°	32.2	26.9	37.6	48.4	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°
155.8	0°	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
110.1	2.5°	110.1	110.1	107.5	110.1	110.1	115.5	128.9	147.8	169.2	177.3
94.0	5°	91.3	88.7	86.0	86.0	86.0	94.0	104.8	126.3	150.4	161.2
77.9	7.5°	75.2	72.5	69.8	67.2	67.2	72.5	86.0	110.1	134.3	145.1
64.5	10°	61.8	56.4	53.7	51.0	51.0	56.4	69.8	94.0	120.9	131.6
53.7	12.5°	51.0	43.0	37.6	34.9	32.2	40.3	53.7	75.2	104.8	118.2
40.3	15°	34.9	26.9	18.8	16.1	13.4	21.5	34.9	59.1	88.7	104.8
21.5	17.5°	18.8	8.1	2.7	0.0	0.0	5.4	16.1	43.0	72.5	86.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	53.7	67.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	32.2	45.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	24.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
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	8.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	21.5
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°
155.8	0°	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
185.4	2.5°	190.7	188.1	182.7	177.3	177.3	177.3	185.4	193.4	201.5	201.5
166.6	5°	177.3	177.3	174.6	169.2	169.2	171.9	182.7	196.1	206.9	209.5
153.1	7.5°	163.9	169.2	163.9	161.2	163.9	166.6	177.3	193.4	209.5	214.9
142.4	10°	155.8	158.5	158.5	155.8	155.8	161.2	171.9	193.4	214.9	223.0
128.9	12.5°	145.1	150.4	147.8	147.8	147.8	153.1	166.6	190.7	220.3	231.0
115.5	15°	134.3	142.4	142.4	139.7	139.7	142.4	161.2	188.1	228.3	247.2
99.4	17.5°	123.6	131.6	134.3	128.9	128.9	134.3	153.1	188.1	233.7	266.0
80.6	20°	102.1	115.5	123.6	115.5	115.5	120.9	139.7	177.3	236.4	284.8
59.1	22.5°	80.6	94.0	104.8	102.1	102.1	104.8	128.9	169.2	239.1	317.0
34.9	25°	59.1	72.5	80.6	86.0	86.0	94.0	118.2	163.9	249.8	384.2
16.1	27.5°	34.9	51.0	61.8	67.2	69.8	80.6	110.1	158.5	268.6	480.9
0.0	30°	16.1	29.6	43.0	53.7	53.7	72.5	102.1	153.1	292.8	620.6
0.0	32.5°	0.0	13.4	21.5	37.6	40.3	59.1	94.0	147.8	327.7	754.9
0.0	35°	0.0	0.0	10.7	29.6	29.6	48.4	86.0	142.4	381.5	857.0
0.0	37.5°	0.0	0.0	0.0	21.5	24.2	43.0	83.3	139.7	392.2	865.0
0.0	40°	0.0	0.0	0.0	16.1	18.8	40.3	83.3	142.4	354.6	846.2
0.0	42.5°	0.0	0.0	0.0	10.7	13.4	40.3	83.3	147.8	319.7	867.7
0.0	45°	0.0	0.0	0.0	8.1	10.7	43.0	80.6	145.1	300.9	980.6
0.0	47.5°	0.0	0.0	0.0	10.7	16.1	43.0	77.9	142.4	303.6	1354.0
0.0	50°	0.0	0.0	0.0	13.4	18.8	43.0	80.6	137.0	333.1	2082.0
0.0	52.5°	0.0	0.0	0.0	10.7	16.1	48.4	88.7	134.3	362.7	2707.9
0.0	55°	0.0	0.0	0.0	2.7	8.1	61.8	96.7	134.3	408.3	2863.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	69.8	110.1	142.4	483.6	2802.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	69.8	112.8	142.4	488.9	2748.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	69.8	123.6	158.5	526.5	2447.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	59.1	147.8	198.8	548.0	1923.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	48.4	174.6	217.6	564.2	1531.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	45.7	180.0	220.3	572.2	1219.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	48.4	177.3	236.4	599.1	991.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	53.7	161.2	260.6	599.1	878.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	56.4	150.4	292.8	545.4	760.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	53.7	147.8	341.2	486.2	625.9
0.0	80°	5.4	8.1	8.1	5.4	5.4	45.7	145.1	346.6	413.7	429.8
2.7	82.5°	16.1	21.5	18.8	13.4	13.4	40.3	128.9	290.1	214.9	185.4
16.1	85°	29.6	34.9	34.9	29.6	29.6	37.6	80.6	104.8	72.5	59.1
29.6	87.5°	40.3	45.7	45.7	40.3	40.3	37.6	34.9	32.2	29.6	29.6
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

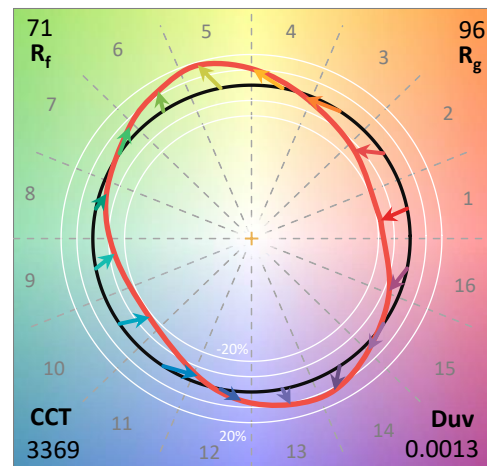
Test Information

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
 CIE u' : 0.2386
 CIE v' : 0.5156
 Duv: 0.0013
 CIE x: 0.4143
 CIE y: 0.3980
 CIE z: 0.1877
 Peak Wavelength (nm): 590
 Dominant Wavelength (nm): 580
 Purity: 43.80166
 R_f: 71.4
 R_g: 96

CRI (Ra): 70.1
 R1: 66.6
 R2: 77.6
 R3: 88.5
 R4: 69.5
 R5: 66.4
 R6: 69.6
 R7: 77.5
 R8: 44.9
 R9: -40.2
 R10: 49.1
 R11: 66.3
 R12: 45.7
 R13: 68.0
 R14: 93.4
 R15: 57.6



Test Conditions

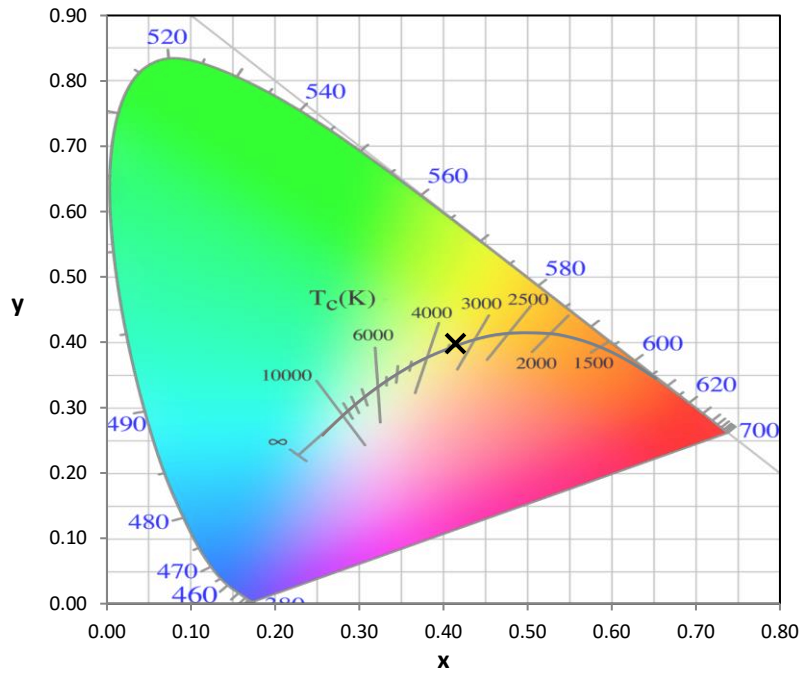
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

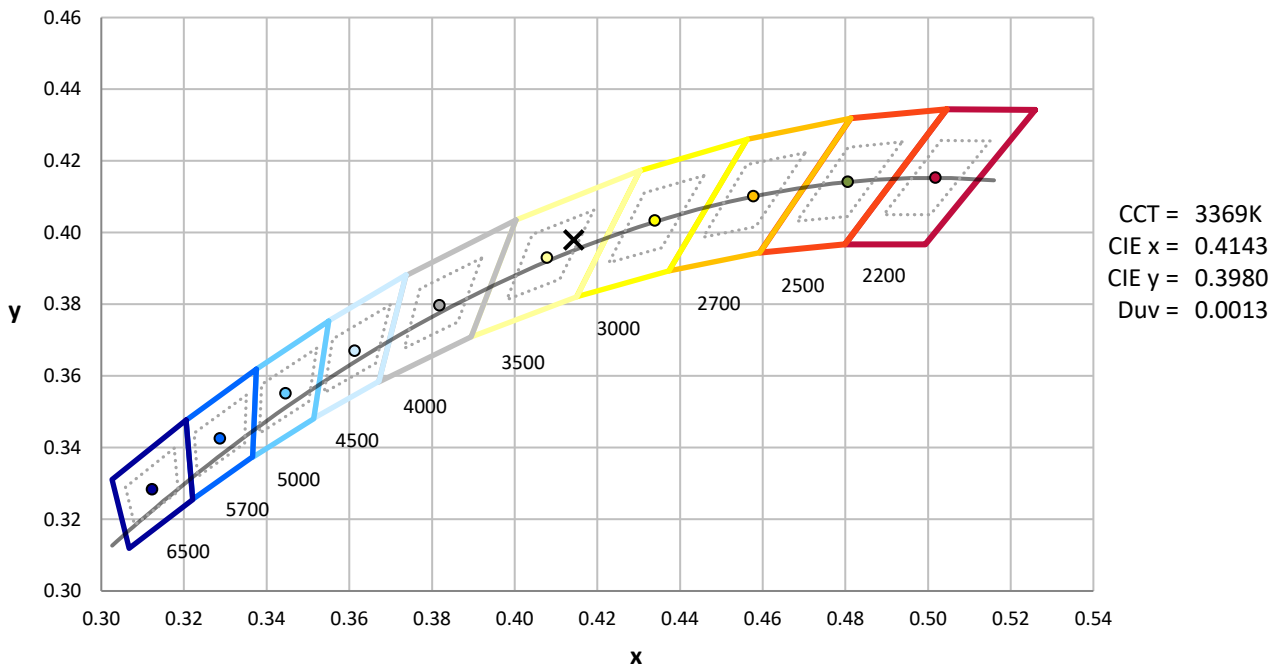
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



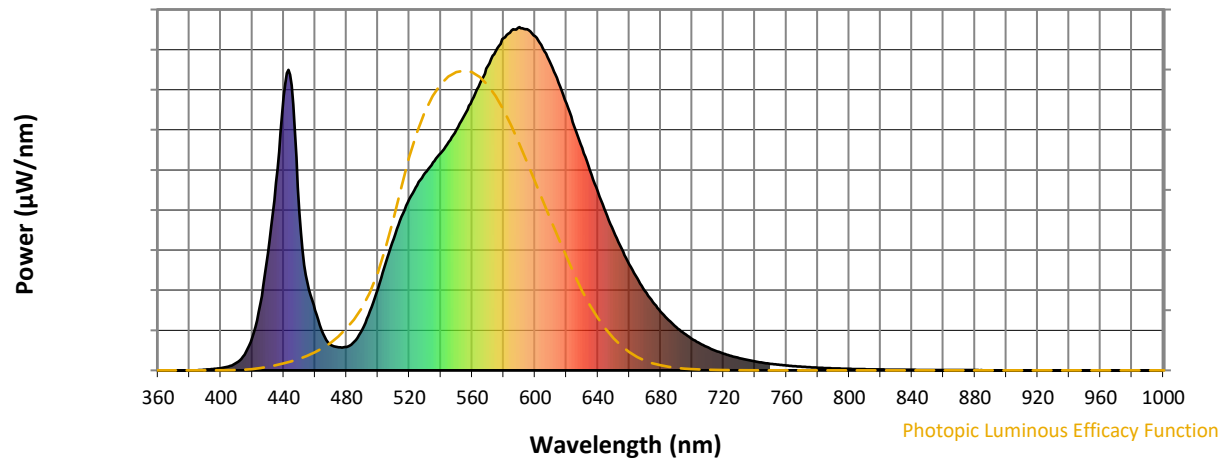
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

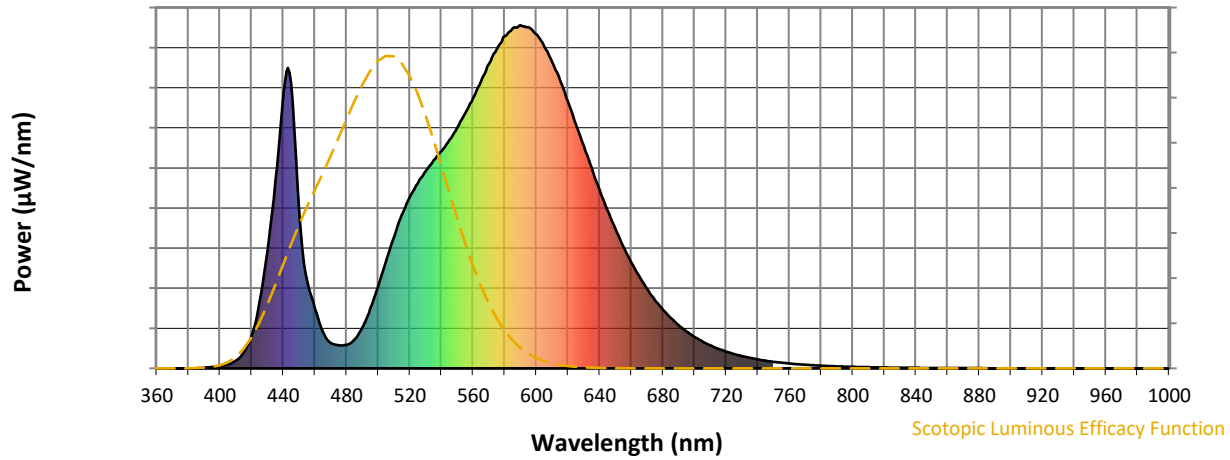


Photopic Lumens: NR

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



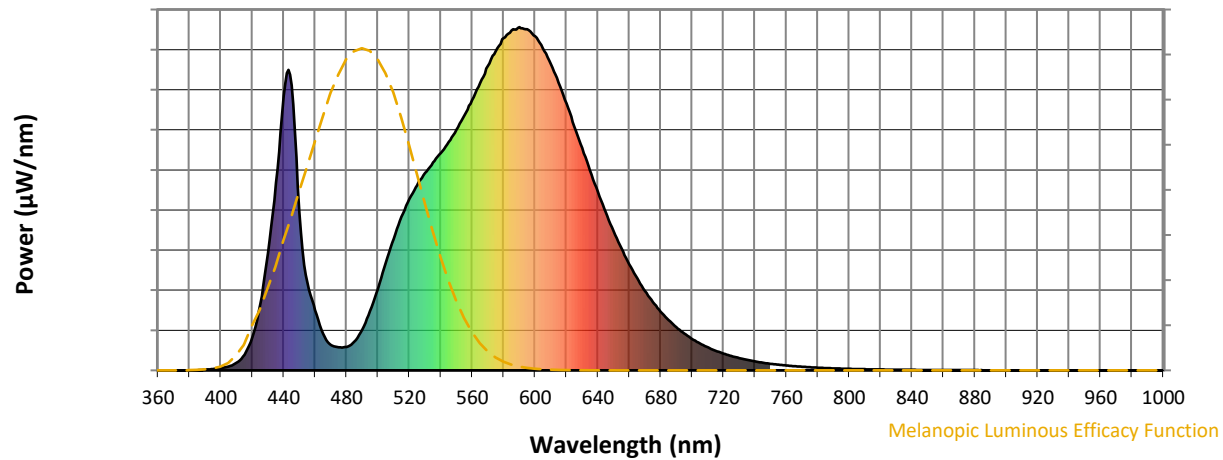
Scotopic Lumens: NR

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

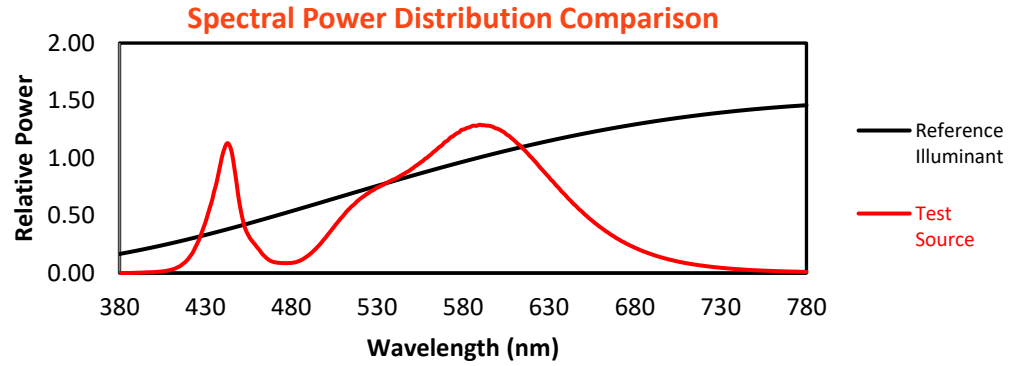
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	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

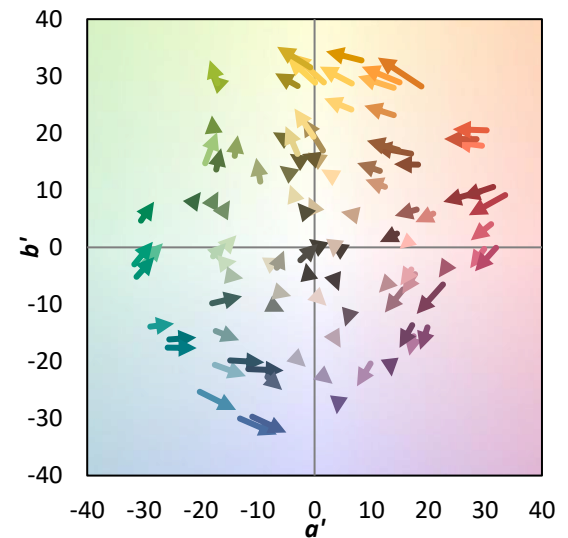
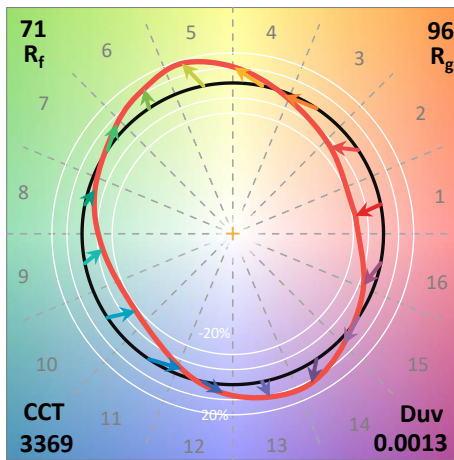
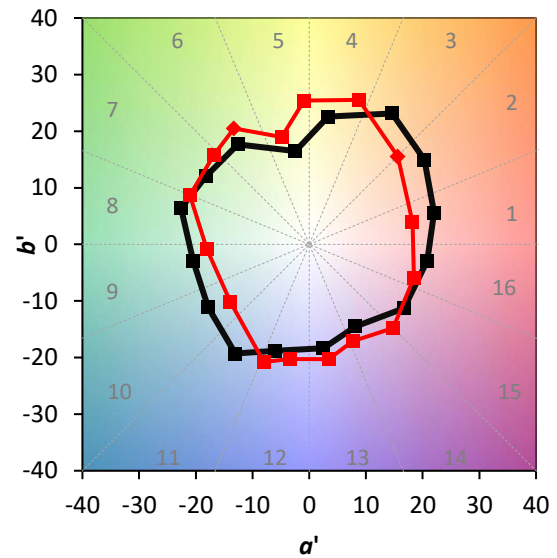
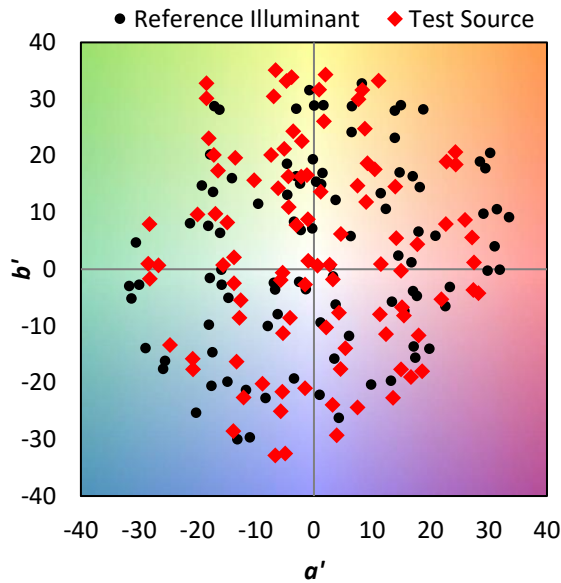
TM-30-18

Summary

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

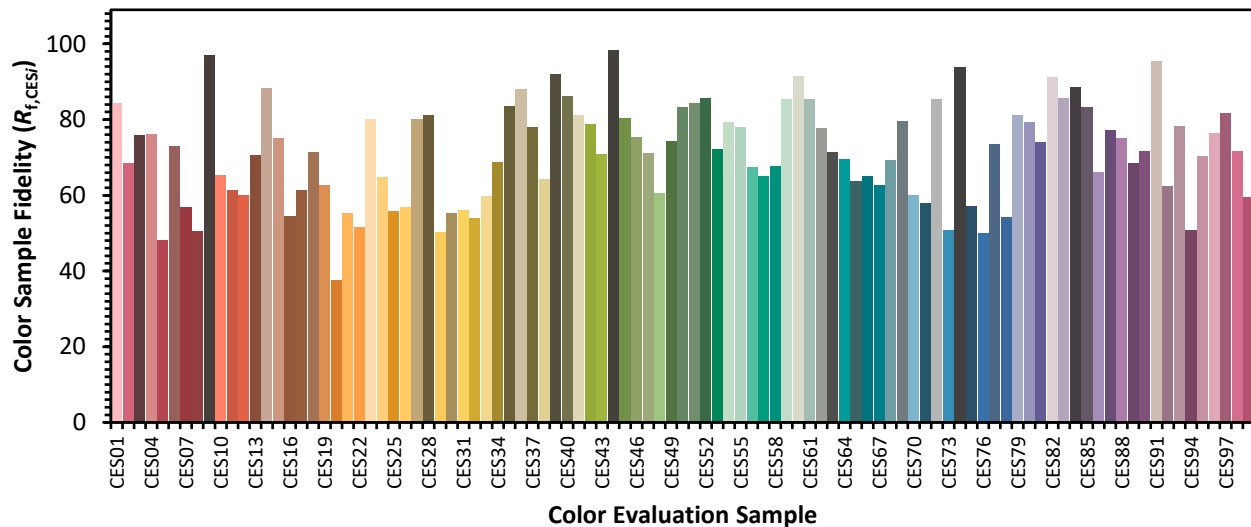


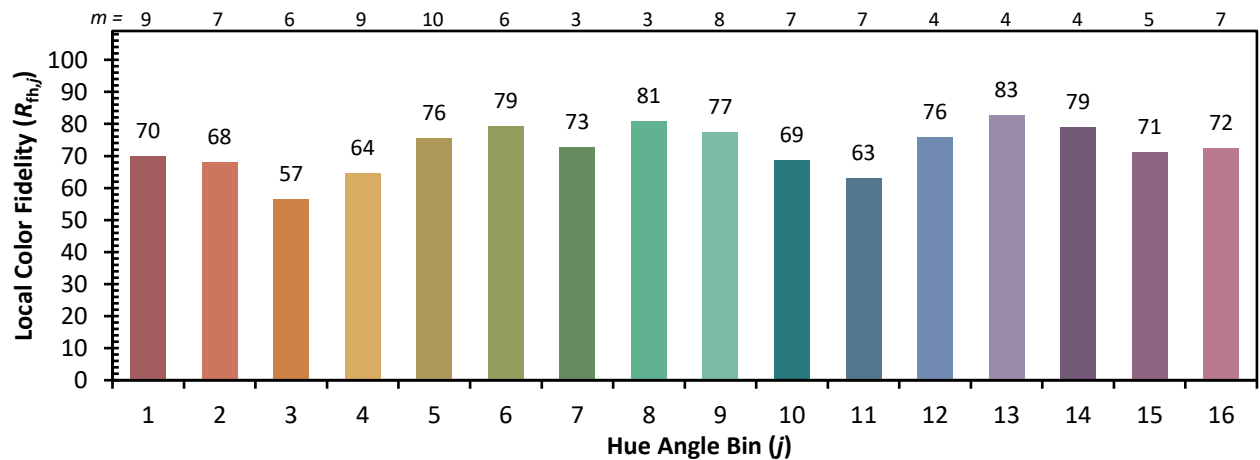
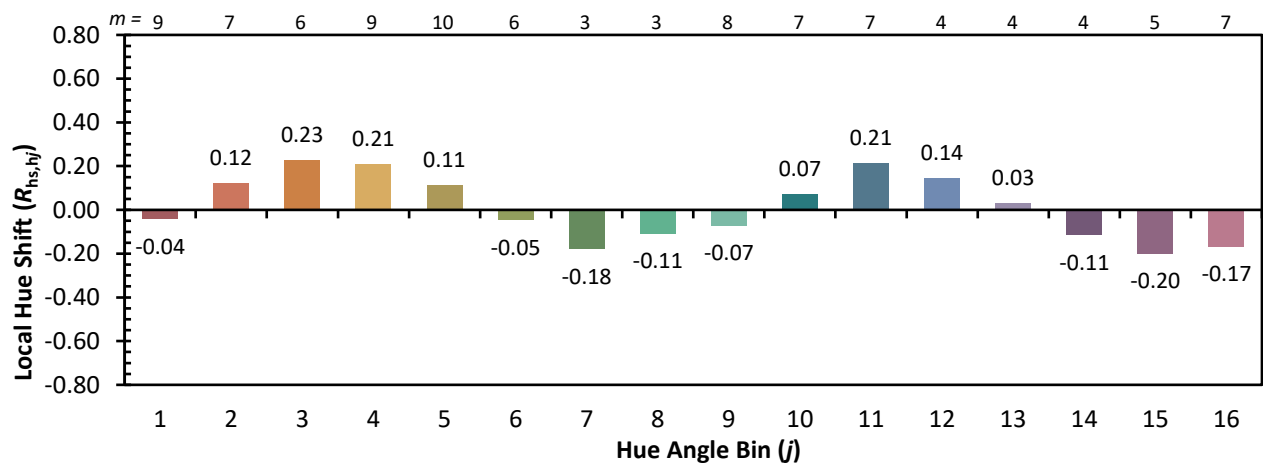
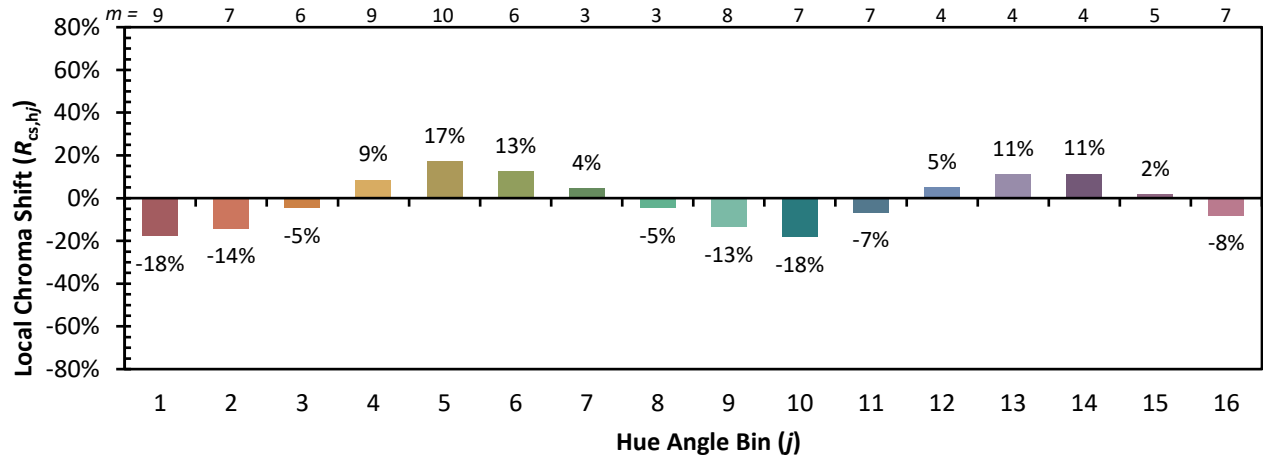
Color Vector Graphics



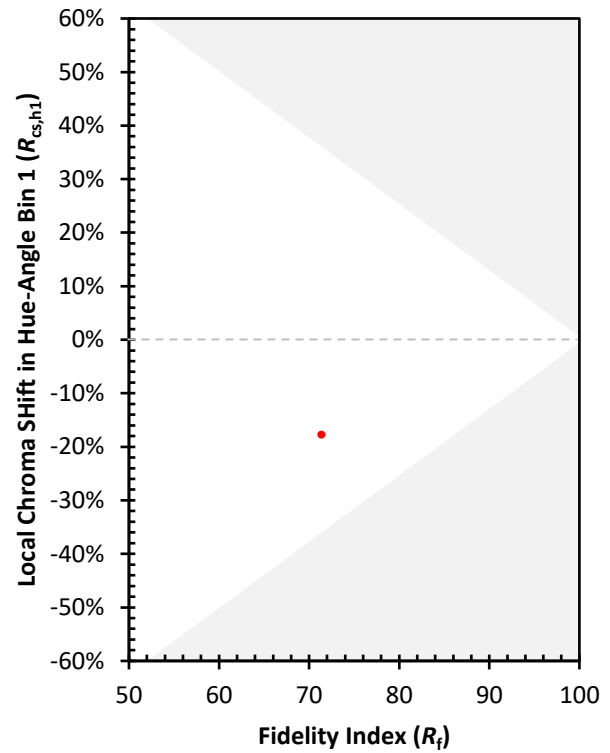
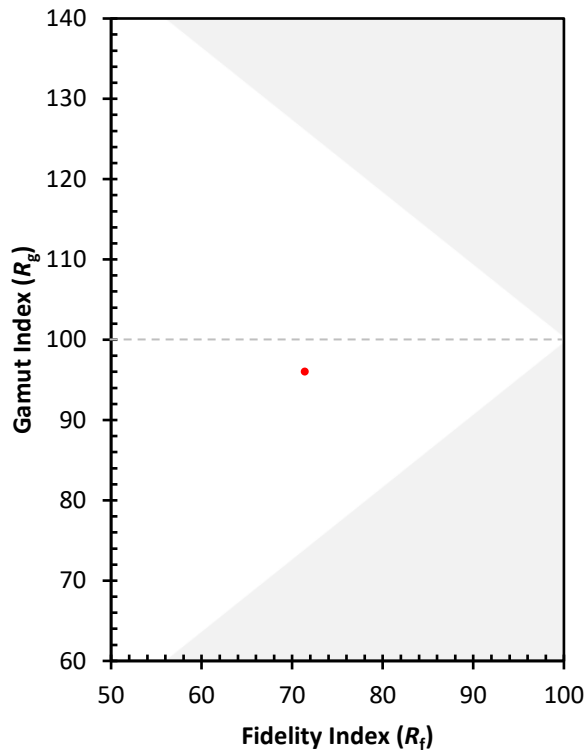
Individual Sample Fidelity Index ($R_{f,i}$)

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)