

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: P1049637

Luminaire Tested: **GALN-SA9A-735-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049637
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 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: 28882.7 lumens
Efficiency: N/A
Efficacy: 118.1 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): 244.6
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

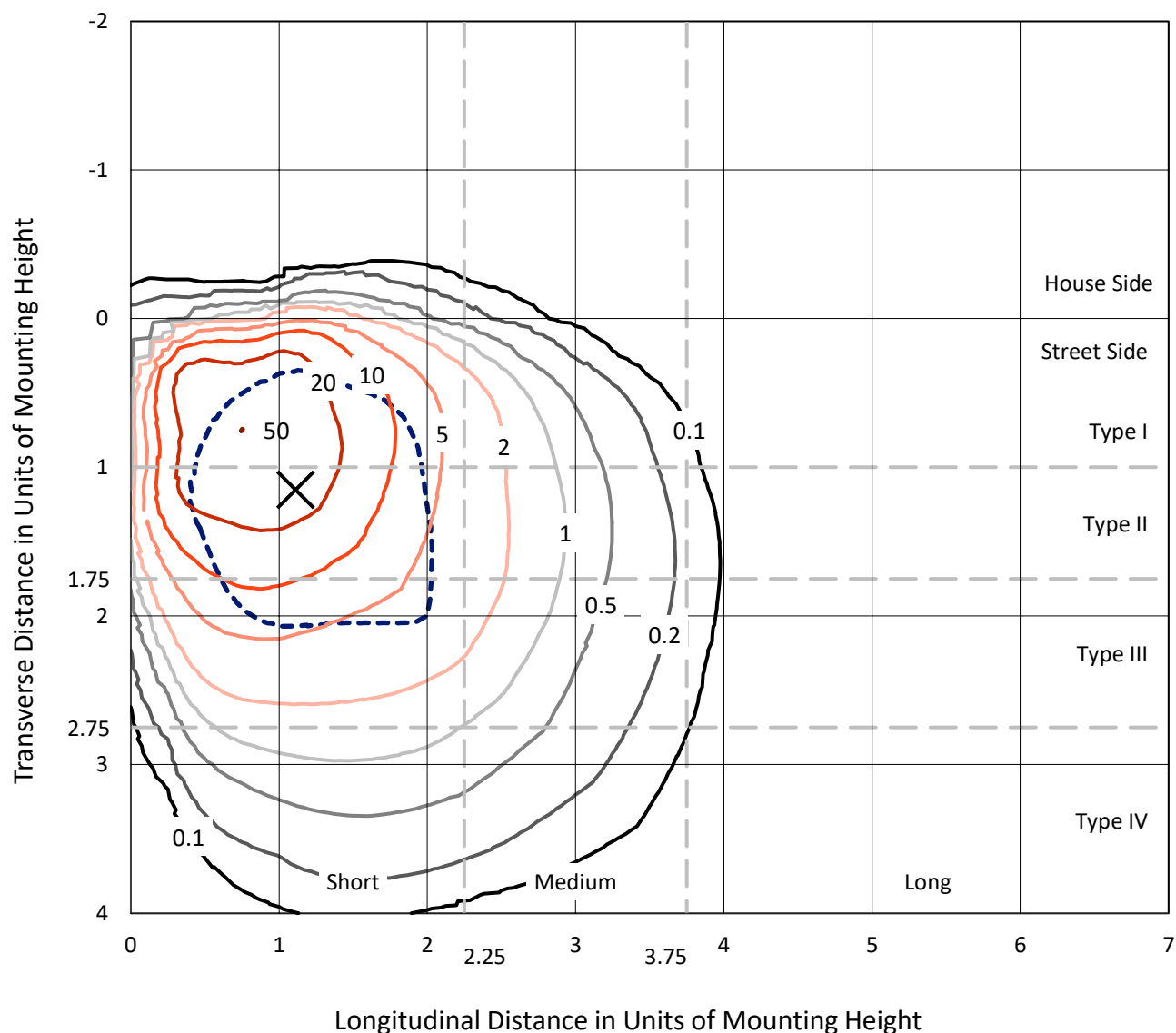
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

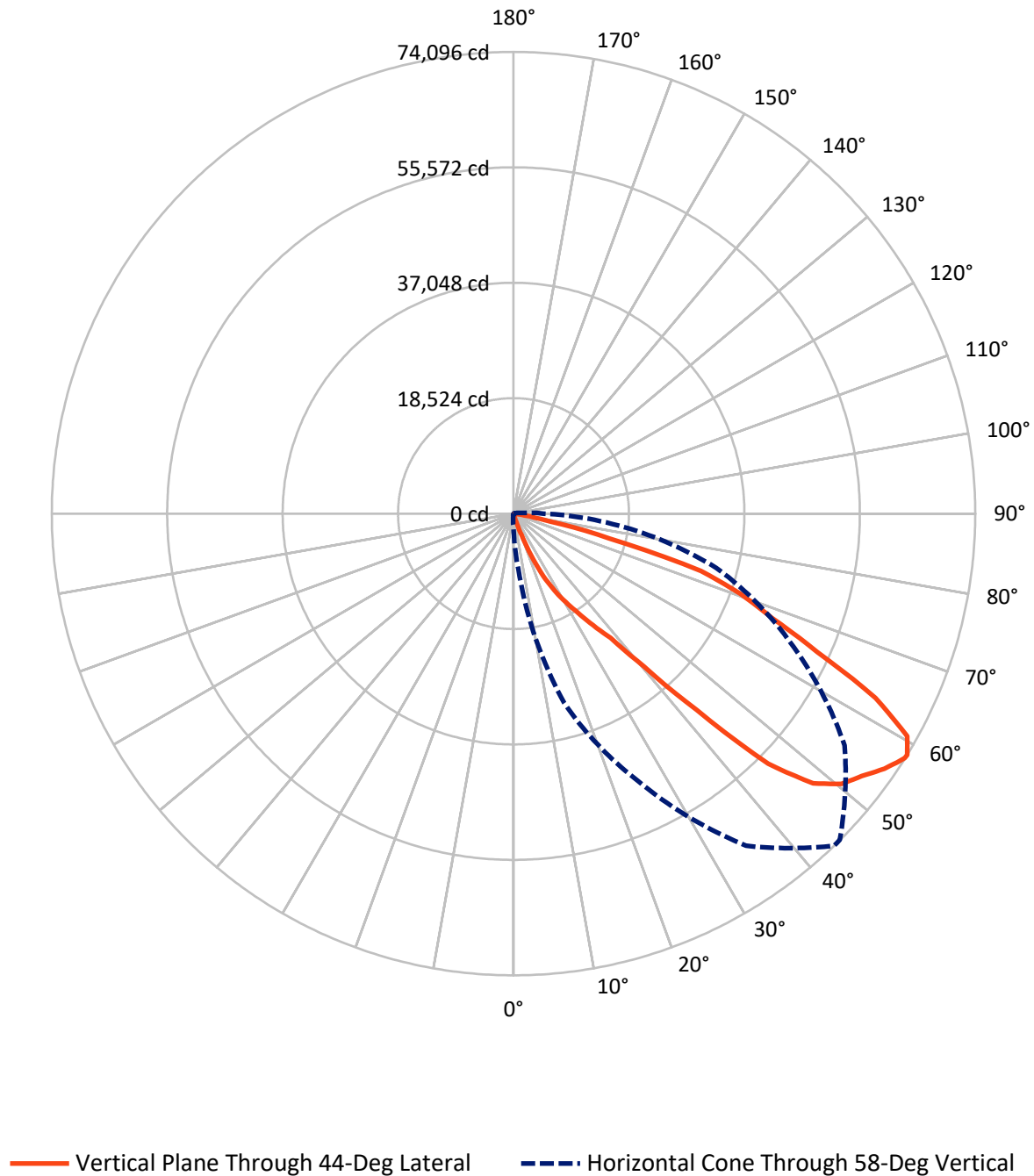


Based on 20 foot mounting height. Maximum calculated value = 50.3 fc

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	197.2	0.0	197.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	28685.5	0.0	28685.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	28882.7	0.0	28882.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	0.0
10°-20°	63.3	0.2
20°-30°	684.2	2.4
30°-40°	2023.5	7.0
40°-50°	6031.2	20.9
50°-60°	9570.0	33.1
60°-70°	7982.5	27.6
70°-80°	2461.9	8.5
80°-90°	54.7	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°	28882.7	100.0
0°-180°	28882.7	100.0



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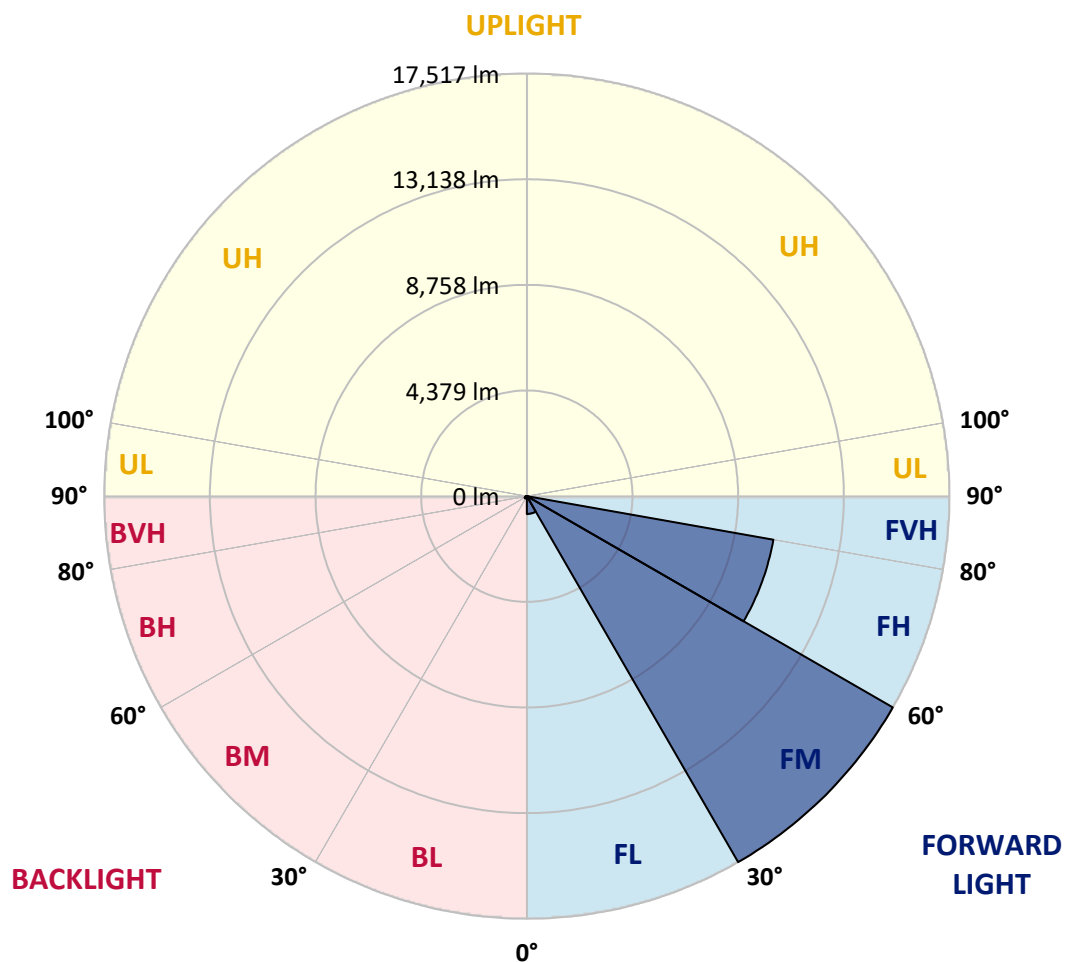
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	739.6	2.6			
FM	(30°-60°)	17516.8	60.6			
FH	(60°-80°)	10377.2	35.9			G4/12000
FVH	(80°-90°)	52.0	0.2			G1/100
BL	(0°-30°)	19.3	0.1	B0/110		
BM	(30°-60°)	107.9	0.4	B0/220		
BH	(60°-80°)	67.3	0.2	B0/110		G0/110
BVH	(80°-90°)	2.6	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°	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5
2.5°	163.6	163.6	157.1	148.4	139.6	130.9	128.7	124.4	122.2	120.0
5°	170.2	170.2	168.0	161.5	152.7	146.2	146.2	139.6	135.3	130.9
7.5°	174.5	176.7	181.1	178.9	174.5	168.0	168.0	163.6	157.1	146.2
10°	181.1	187.6	196.4	200.7	202.9	202.9	200.7	198.5	187.6	172.4
12.5°	187.6	200.7	222.5	244.4	257.5	274.9	272.7	268.4	240.0	207.3
15°	200.7	220.4	266.2	329.5	427.6	488.7	512.7	490.9	397.1	279.3
17.5°	216.0	248.7	386.2	689.5	1130.2	1339.7	1466.2	1363.7	903.3	530.2
20°	231.3	303.3	717.8	1786.9	2932.4	3617.5	3807.3	3510.6	2253.8	1010.2
22.5°	257.5	425.5	1455.3	3693.9	6318.6	7346.3	7540.5	6591.4	4256.8	1994.2
25°	312.0	617.5	2509.1	6019.7	9429.9	11164.5	11083.8	9840.1	6905.5	3185.5
27.5°	390.6	898.9	3794.2	8552.8	12410.3	13939.8	14123.1	12584.9	9205.2	4684.4
30°	504.0	1245.8	5173.2	10582.0	14799.5	16453.3	16483.8	14893.3	11262.7	6000.1
32.5°	613.1	1573.1	6379.7	12543.4	17153.7	18966.8	19102.1	17144.9	12798.7	7370.3
35°	696.0	1786.9	7601.6	14267.1	19527.5	22025.7	22017.0	19693.3	14618.4	8594.3
37.5°	702.6	2000.8	8707.7	16030.0	22534.1	25331.2	25608.3	23046.8	16817.7	10108.5
40°	687.3	2240.8	10108.5	18779.2	27951.6	32243.3	32487.7	29258.6	21229.4	12700.5
42.5°	704.7	2657.5	12382.0	23856.3	36947.4	43111.1	43582.4	40187.4	29339.3	17989.3
45°	796.4	3440.8	17144.9	32350.2	49770.1	57284.4	57127.3	52237.8	38775.8	26040.3
47.5°	1099.7	5358.6	24205.4	40617.3	57965.1	64656.8	64792.1	58816.0	44282.8	32230.2
50°	1690.9	8199.4	30137.8	44987.5	61488.8	68202.3	68075.8	61170.2	46375.1	35278.3
52.5°	2199.3	10254.7	33113.9	46521.3	61940.4	69954.4	69945.6	61789.9	46700.2	35540.1
55°	2325.8	10409.6	33137.9	46604.2	62952.8	72247.5	72535.5	63315.0	47121.3	34396.8
57.5°	2275.7	9216.1	31754.6	47084.2	64755.0	74021.3	74036.6	64792.1	48190.4	33696.4
58°	2232.0	9028.5	31475.3	47357.0	65064.8	74095.5	74058.4	64859.7	49061.0	33670.3
60°	1987.7	7839.4	30386.6	48053.0	64604.5	72572.6	72225.7	63382.6	48932.3	33401.9
62.5°	1562.2	6115.7	29315.3	47247.9	59669.1	65200.1	65344.1	56114.9	44607.9	31837.5
65°	1243.7	4557.9	27081.1	41444.2	49135.2	53542.5	54079.2	45631.1	37233.2	26958.9
67.5°	990.6	3294.6	22717.4	32996.1	38880.5	44686.4	45076.9	38311.0	28846.2	20655.5
70°	805.1	2227.7	15680.9	24131.2	32068.8	38596.9	38620.9	31826.6	21530.5	13534.0
72.5°	713.5	1542.6	9102.7	17598.8	26003.2	31451.3	30816.4	25826.5	16547.1	8016.1
75°	617.5	1023.3	4464.1	10758.7	15766.0	15872.9	16115.1	11980.5	8271.4	3811.7
77.5°	508.4	726.6	1758.6	2938.9	4728.1	6052.4	6277.2	4756.4	2751.3	938.2
80°	349.1	344.7	473.5	901.1	1352.7	1695.3	1581.8	1224.0	720.0	360.0
82.5°	150.5	163.6	213.8	257.5	209.5	202.9	194.2	124.4	96.0	74.2
85°	48.0	43.6	45.8	45.8	37.1	28.4	28.4	13.1	0.0	0.0
87.5°	24.0	19.6	19.6	17.5	10.9	4.4	2.2	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°
126.5	0°	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5
117.8	2.5°	115.6	115.6	111.3	106.9	104.7	100.4	98.2	96.0	93.8	91.6
126.5	5°	122.2	120.0	113.5	106.9	100.4	93.8	89.5	85.1	80.7	78.5
139.6	7.5°	133.1	128.7	115.6	104.7	96.0	87.3	82.9	76.4	72.0	65.5
154.9	10°	146.2	137.5	120.0	106.9	93.8	82.9	76.4	69.8	63.3	54.5
176.7	12.5°	163.6	148.4	126.5	104.7	89.5	76.4	69.8	61.1	54.5	48.0
205.1	15°	178.9	159.3	128.7	104.7	85.1	69.8	61.1	52.4	45.8	37.1
257.5	17.5°	200.7	168.0	126.5	98.2	78.5	61.1	52.4	45.8	34.9	21.8
381.8	20°	237.8	174.5	122.2	91.6	67.6	50.2	39.3	30.5	15.3	4.4
573.8	22.5°	296.7	192.0	117.8	82.9	58.9	39.3	26.2	10.9	0.0	0.0
872.7	25°	410.2	222.5	117.8	78.5	52.4	28.4	8.7	0.0	0.0	0.0
1239.3	27.5°	545.5	264.0	117.8	67.6	41.5	15.3	0.0	0.0	0.0	0.0
1688.7	30°	682.9	309.8	117.8	58.9	32.7	2.2	0.0	0.0	0.0	0.0
2079.3	32.5°	813.8	349.1	120.0	50.2	21.8	0.0	0.0	0.0	0.0	0.0
2620.4	35°	946.9	355.6	117.8	43.6	13.1	0.0	0.0	0.0	0.0	0.0
3283.7	37.5°	1117.1	342.5	111.3	39.3	6.5	0.0	0.0	0.0	0.0	0.0
4320.1	40°	1374.6	349.1	104.7	37.1	2.2	0.0	0.0	0.0	0.0	0.0
6168.1	42.5°	1850.2	377.5	96.0	37.1	0.0	0.0	0.0	0.0	0.0	0.0
9824.9	45°	3198.6	506.2	87.3	39.3	0.0	0.0	0.0	0.0	0.0	0.0
14749.3	47.5°	5291.0	909.8	85.1	39.3	0.0	0.0	0.0	0.0	0.0	0.0
17766.8	50°	6752.8	1145.5	89.5	41.5	0.0	0.0	0.0	0.0	0.0	0.0
18144.2	52.5°	6741.9	1276.4	93.8	43.6	8.7	0.0	0.0	0.0	0.0	0.0
16723.9	55°	5993.5	1300.4	100.4	48.0	28.4	0.0	0.0	0.0	0.0	0.0
14371.8	57.5°	5009.5	1186.9	115.6	58.9	52.4	0.0	0.0	0.0	0.0	0.0
14003.1	58°	4835.0	1134.6	120.0	61.1	56.7	0.0	0.0	0.0	0.0	0.0
12146.3	60°	3962.2	925.1	152.7	76.4	76.4	0.0	0.0	0.0	0.0	0.0
9957.9	62.5°	2736.0	807.3	174.5	98.2	78.5	0.0	0.0	0.0	0.0	0.0
7341.9	65°	1935.3	728.7	189.8	104.7	63.3	0.0	0.0	0.0	0.0	0.0
5216.8	67.5°	1446.6	672.0	209.5	106.9	32.7	0.0	0.0	0.0	0.0	0.0
3272.8	70°	1108.4	630.6	257.5	113.5	8.7	0.0	0.0	0.0	0.0	0.0
1950.6	72.5°	903.3	582.6	312.0	117.8	0.0	0.0	0.0	0.0	0.0	0.0
1169.5	75°	748.4	525.8	301.1	128.7	0.0	0.0	0.0	0.0	0.0	0.0
624.0	77.5°	497.5	408.0	274.9	128.7	0.0	0.0	0.0	0.0	0.0	0.0
222.5	80°	174.5	161.5	213.8	113.5	0.0	0.0	0.0	0.0	0.0	0.0
45.8	82.5°	26.2	21.8	30.5	39.3	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°
126.5	0°	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5
89.5	2.5°	89.5	89.5	87.3	89.5	89.5	93.8	104.7	120.0	137.5	144.0
76.4	5°	74.2	72.0	69.8	69.8	69.8	76.4	85.1	102.5	122.2	130.9
63.3	7.5°	61.1	58.9	56.7	54.5	54.5	58.9	69.8	89.5	109.1	117.8
52.4	10°	50.2	45.8	43.6	41.5	41.5	45.8	56.7	76.4	98.2	106.9
43.6	12.5°	41.5	34.9	30.5	28.4	26.2	32.7	43.6	61.1	85.1	96.0
32.7	15°	28.4	21.8	15.3	13.1	10.9	17.5	28.4	48.0	72.0	85.1
17.5	17.5°	15.3	6.5	2.2	0.0	0.0	4.4	13.1	34.9	58.9	69.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	43.6	54.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	26.2	37.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	19.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
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	6.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	17.5
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°
126.5	0°	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5
150.5	2.5°	154.9	152.7	148.4	144.0	144.0	144.0	150.5	157.1	163.6	163.6
135.3	5°	144.0	144.0	141.8	137.5	137.5	139.6	148.4	159.3	168.0	170.2
124.4	7.5°	133.1	137.5	133.1	130.9	133.1	135.3	144.0	157.1	170.2	174.5
115.6	10°	126.5	128.7	128.7	126.5	126.5	130.9	139.6	157.1	174.5	181.1
104.7	12.5°	117.8	122.2	120.0	120.0	120.0	124.4	135.3	154.9	178.9	187.6
93.8	15°	109.1	115.6	115.6	113.5	113.5	115.6	130.9	152.7	185.5	200.7
80.7	17.5°	100.4	106.9	109.1	104.7	104.7	109.1	124.4	152.7	189.8	216.0
65.5	20°	82.9	93.8	100.4	93.8	93.8	98.2	113.5	144.0	192.0	231.3
48.0	22.5°	65.5	76.4	85.1	82.9	82.9	85.1	104.7	137.5	194.2	257.5
28.4	25°	48.0	58.9	65.5	69.8	69.8	76.4	96.0	133.1	202.9	312.0
13.1	27.5°	28.4	41.5	50.2	54.5	56.7	65.5	89.5	128.7	218.2	390.6
0.0	30°	13.1	24.0	34.9	43.6	43.6	58.9	82.9	124.4	237.8	504.0
0.0	32.5°	0.0	10.9	17.5	30.5	32.7	48.0	76.4	120.0	266.2	613.1
0.0	35°	0.0	0.0	8.7	24.0	24.0	39.3	69.8	115.6	309.8	696.0
0.0	37.5°	0.0	0.0	0.0	17.5	19.6	34.9	67.6	113.5	318.5	702.6
0.0	40°	0.0	0.0	0.0	13.1	15.3	32.7	67.6	115.6	288.0	687.3
0.0	42.5°	0.0	0.0	0.0	8.7	10.9	32.7	67.6	120.0	259.6	704.7
0.0	45°	0.0	0.0	0.0	6.5	8.7	34.9	65.5	117.8	244.4	796.4
0.0	47.5°	0.0	0.0	0.0	8.7	13.1	34.9	63.3	115.6	246.5	1099.7
0.0	50°	0.0	0.0	0.0	10.9	15.3	34.9	65.5	111.3	270.5	1690.9
0.0	52.5°	0.0	0.0	0.0	8.7	13.1	39.3	72.0	109.1	294.5	2199.3
0.0	55°	0.0	0.0	0.0	2.2	6.5	50.2	78.5	109.1	331.6	2325.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	56.7	89.5	115.6	392.7	2275.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	56.7	91.6	115.6	397.1	2232.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	56.7	100.4	128.7	427.6	1987.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	48.0	120.0	161.5	445.1	1562.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	39.3	141.8	176.7	458.2	1243.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	37.1	146.2	178.9	464.7	990.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	39.3	144.0	192.0	486.6	805.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	43.6	130.9	211.6	486.6	713.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	45.8	122.2	237.8	442.9	617.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	43.6	120.0	277.1	394.9	508.4
0.0	80°	4.4	6.5	6.5	4.4	4.4	37.1	117.8	281.5	336.0	349.1
2.2	82.5°	13.1	17.5	15.3	10.9	10.9	32.7	104.7	235.6	174.5	150.5
13.1	85°	24.0	28.4	28.4	24.0	24.0	30.5	65.5	85.1	58.9	48.0
24.0	87.5°	32.7	37.1	37.1	32.7	32.7	30.5	28.4	26.2	24.0	24.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-5

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

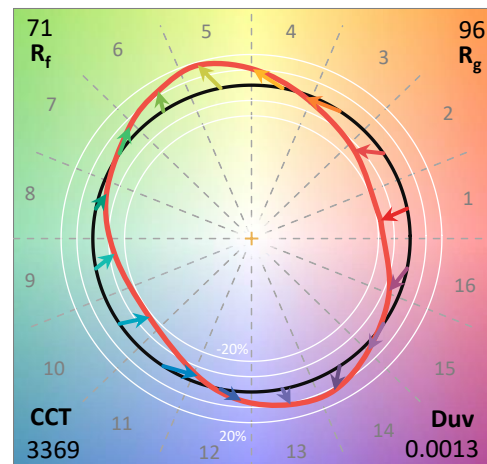
Test Information

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

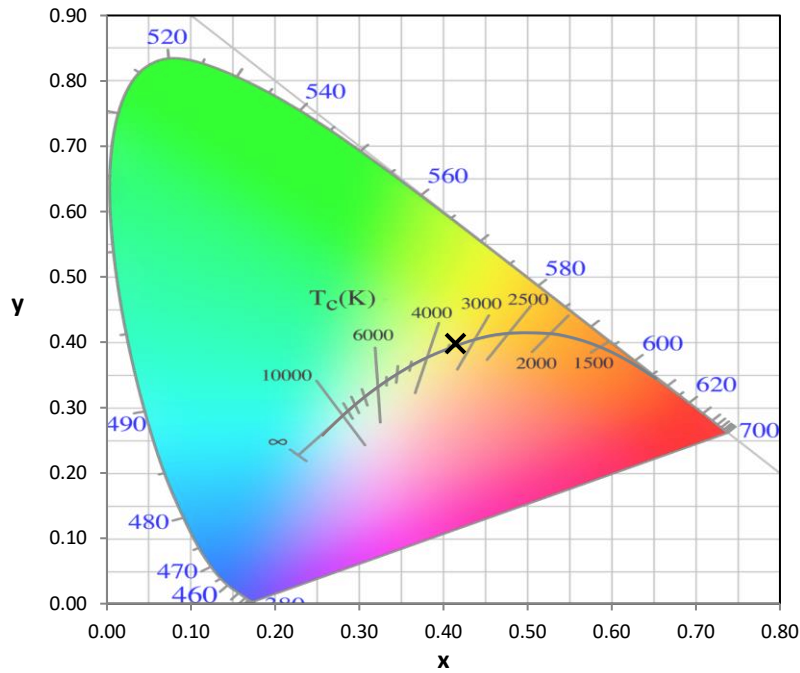
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

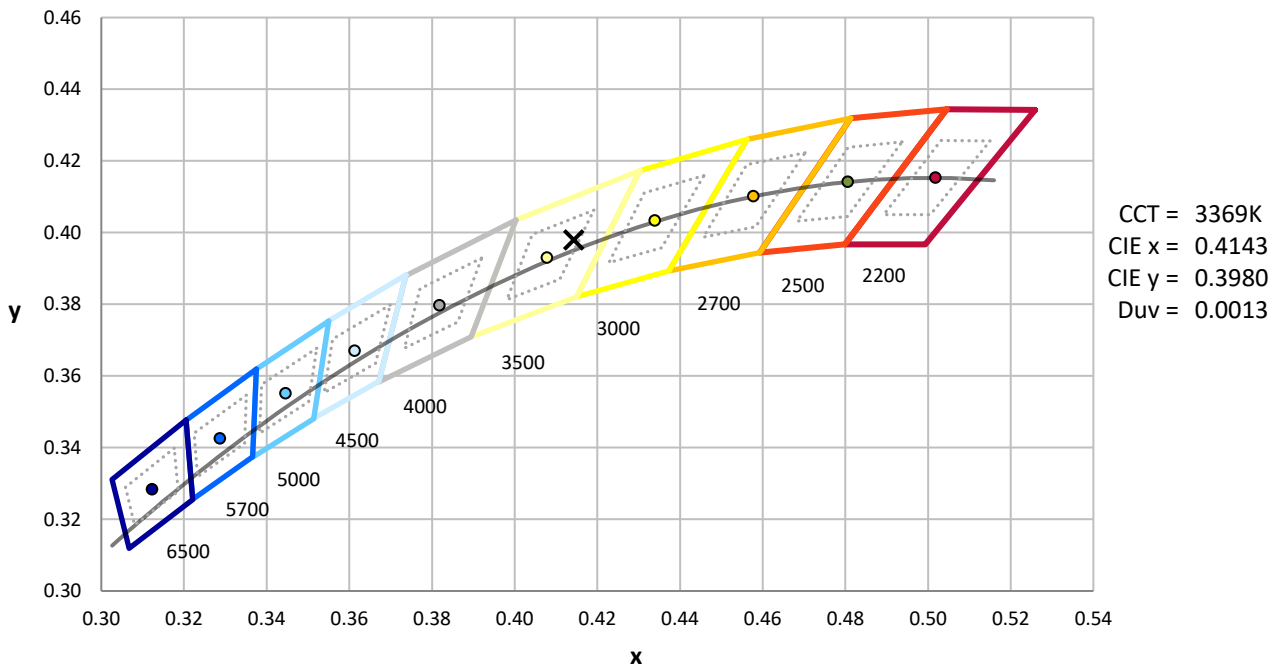
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-5

CIE 1931 Chromaticity Diagram



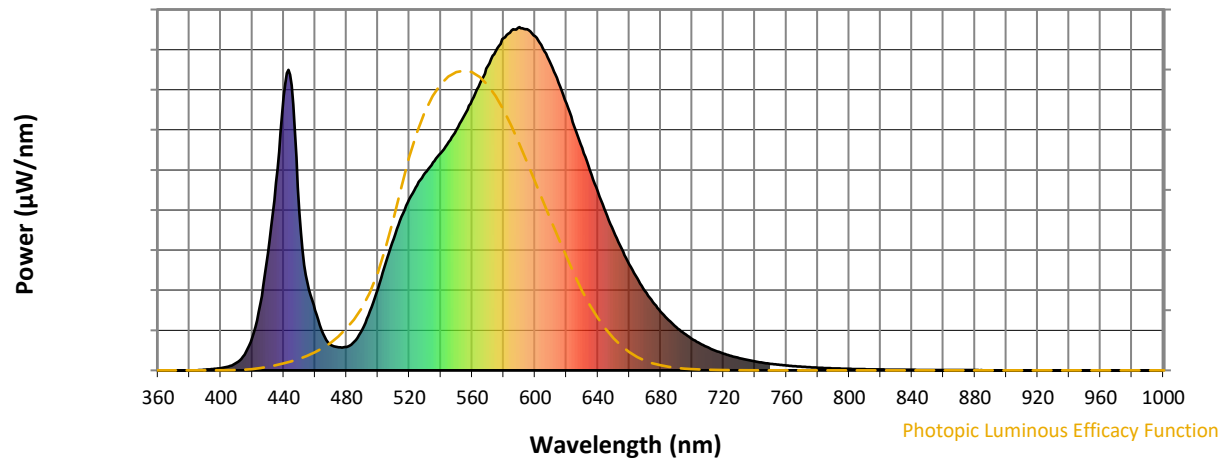
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

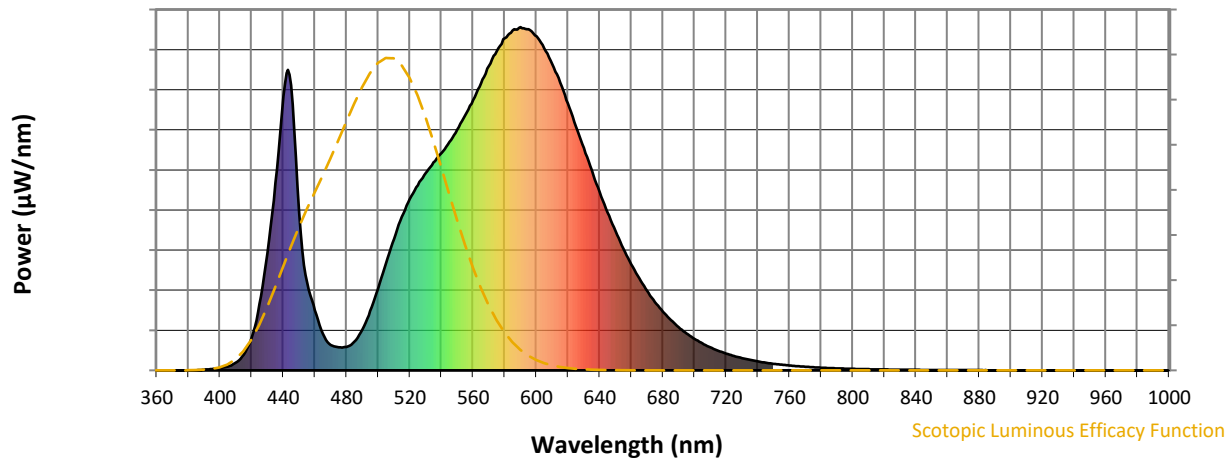


Photopic Lumens: NR

λ (nm)	Power 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

Scotopic Flux vs. Wavelength



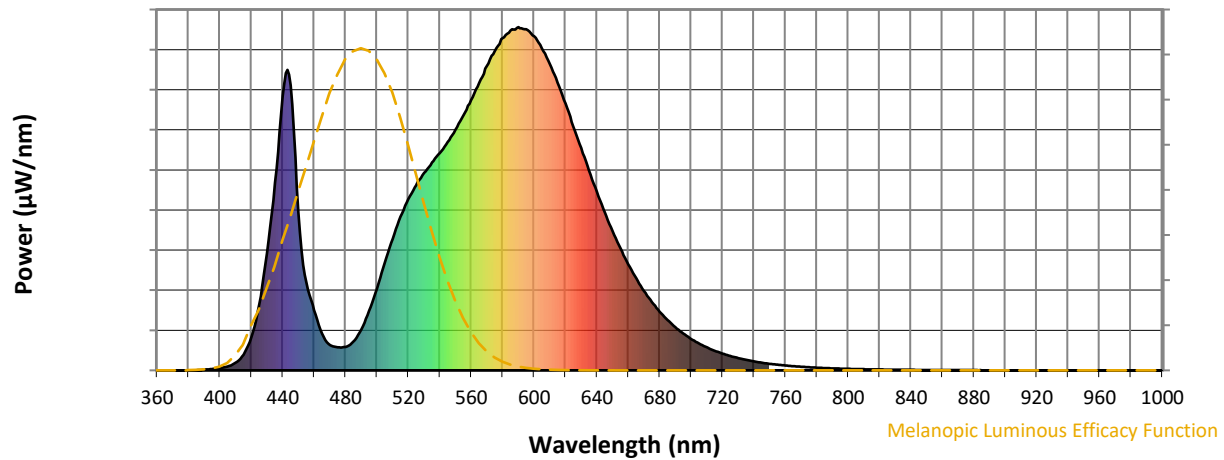
Scotopic Lumens: NR

S/P: 1.29

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

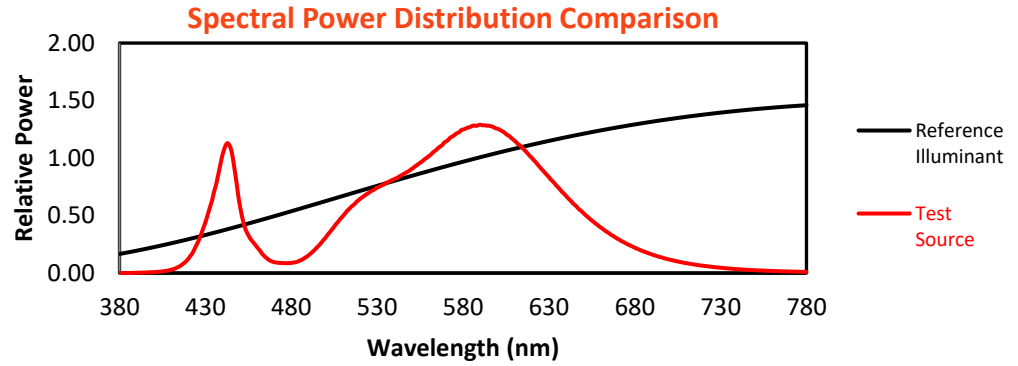
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630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

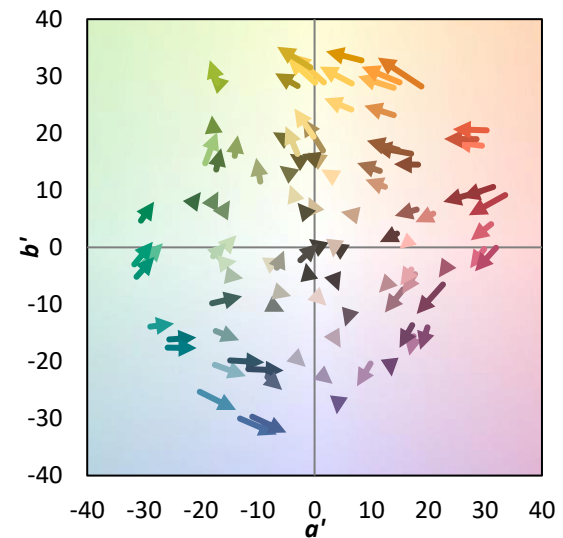
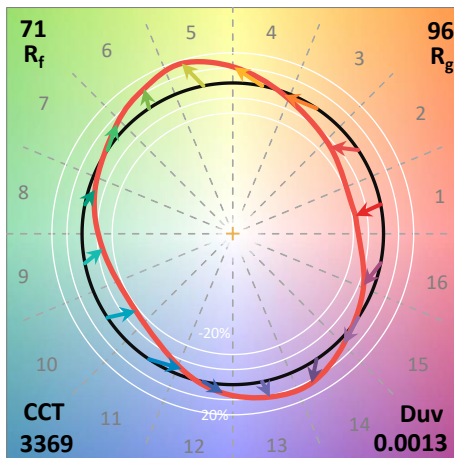
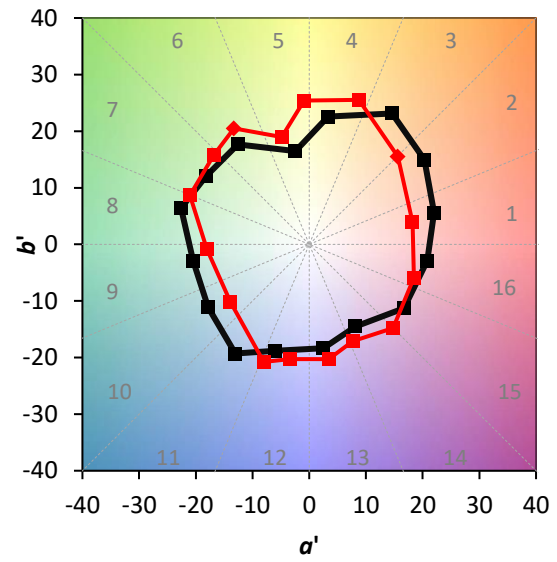
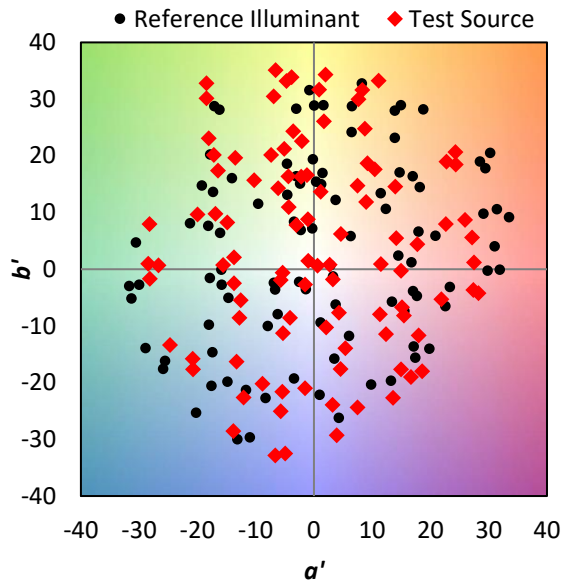
TM-30-18

Summary

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

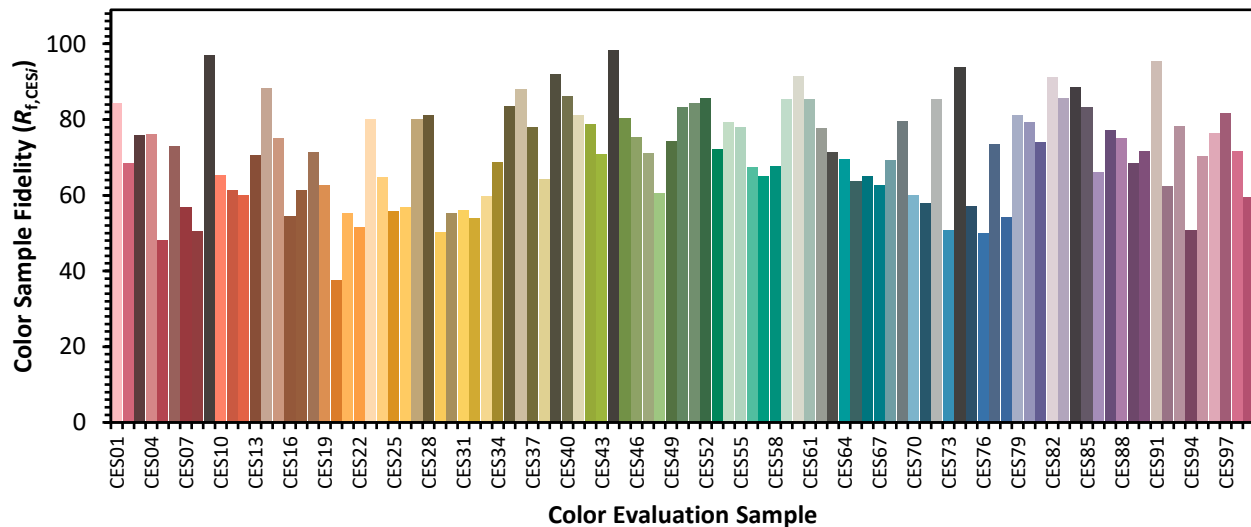


Color Vector Graphics

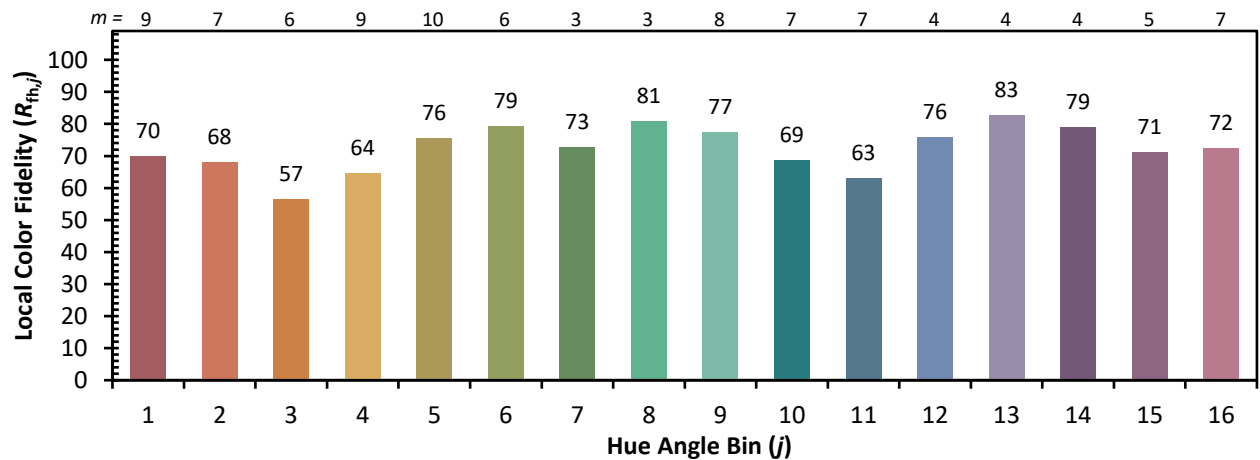
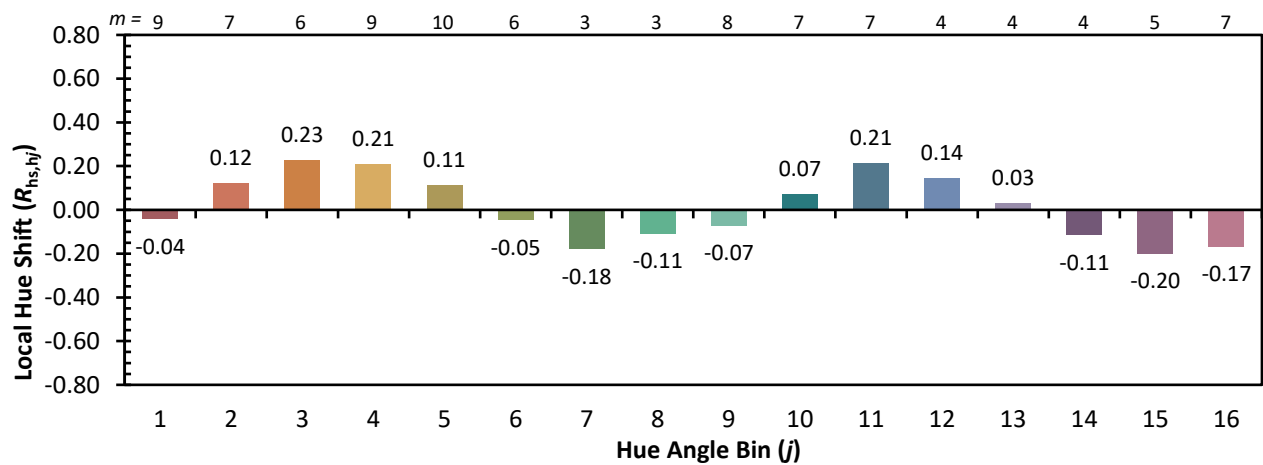
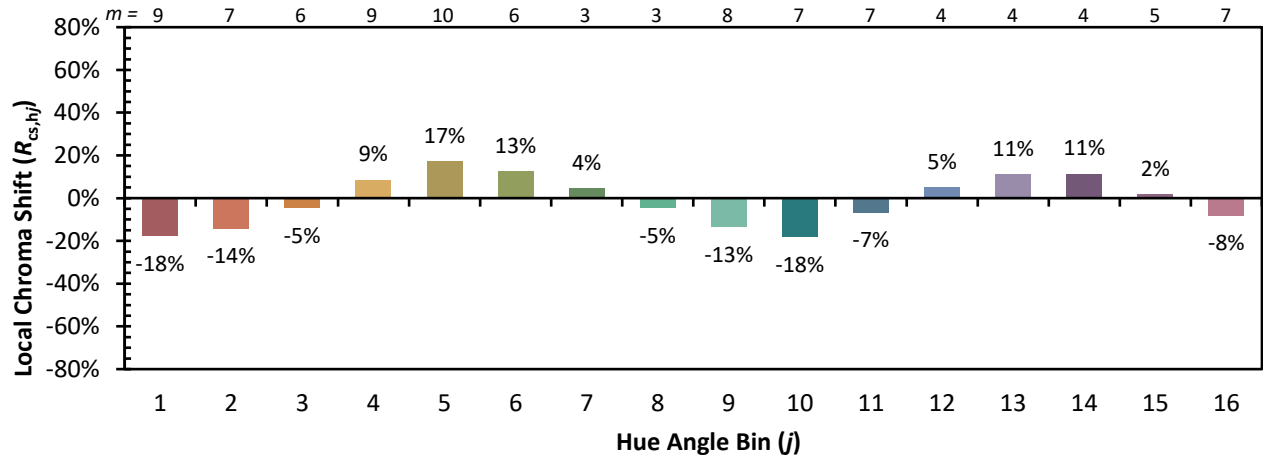


Individual Sample Fidelity Index ($R_{f,i}$)

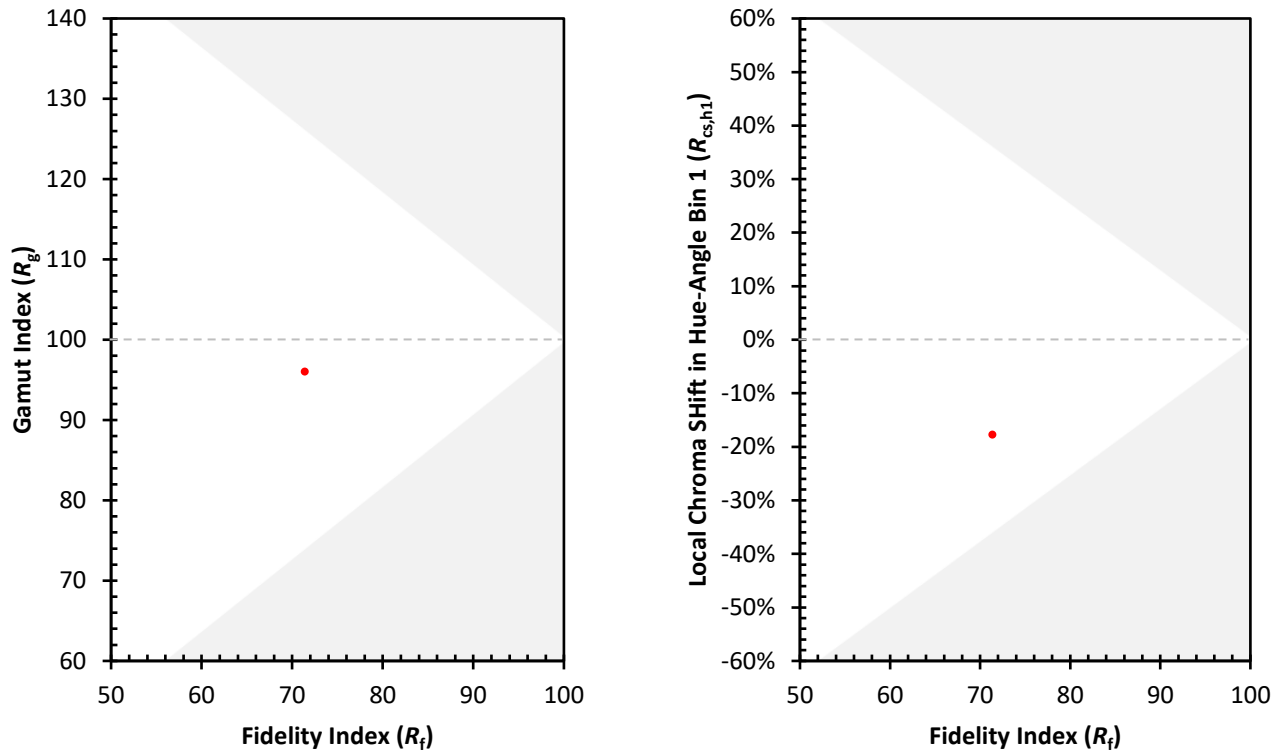
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82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