

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: P1049773

Luminaire Tested: **GALN-SA7A-830-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049773
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 7xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20411 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 193.1
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

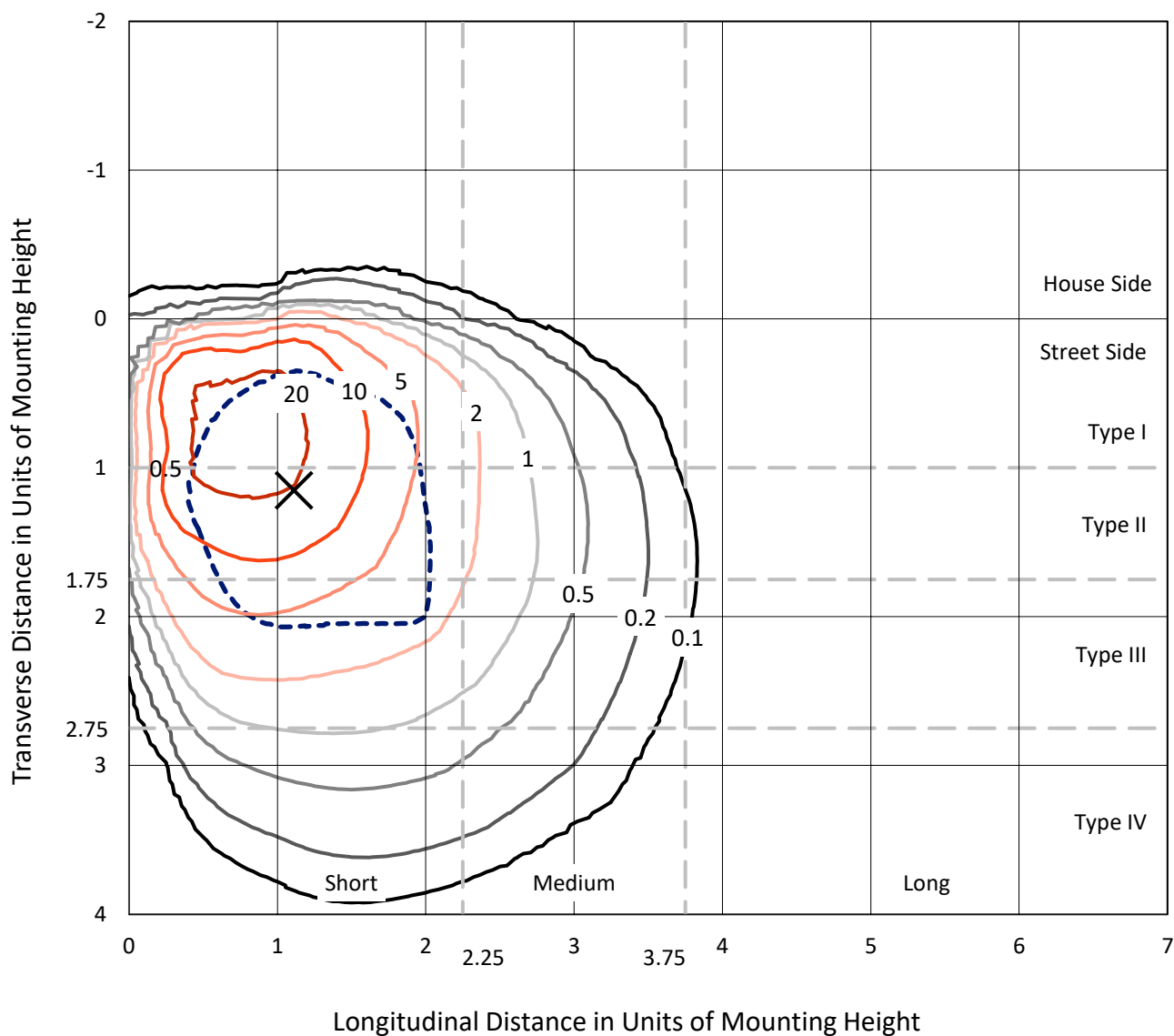
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

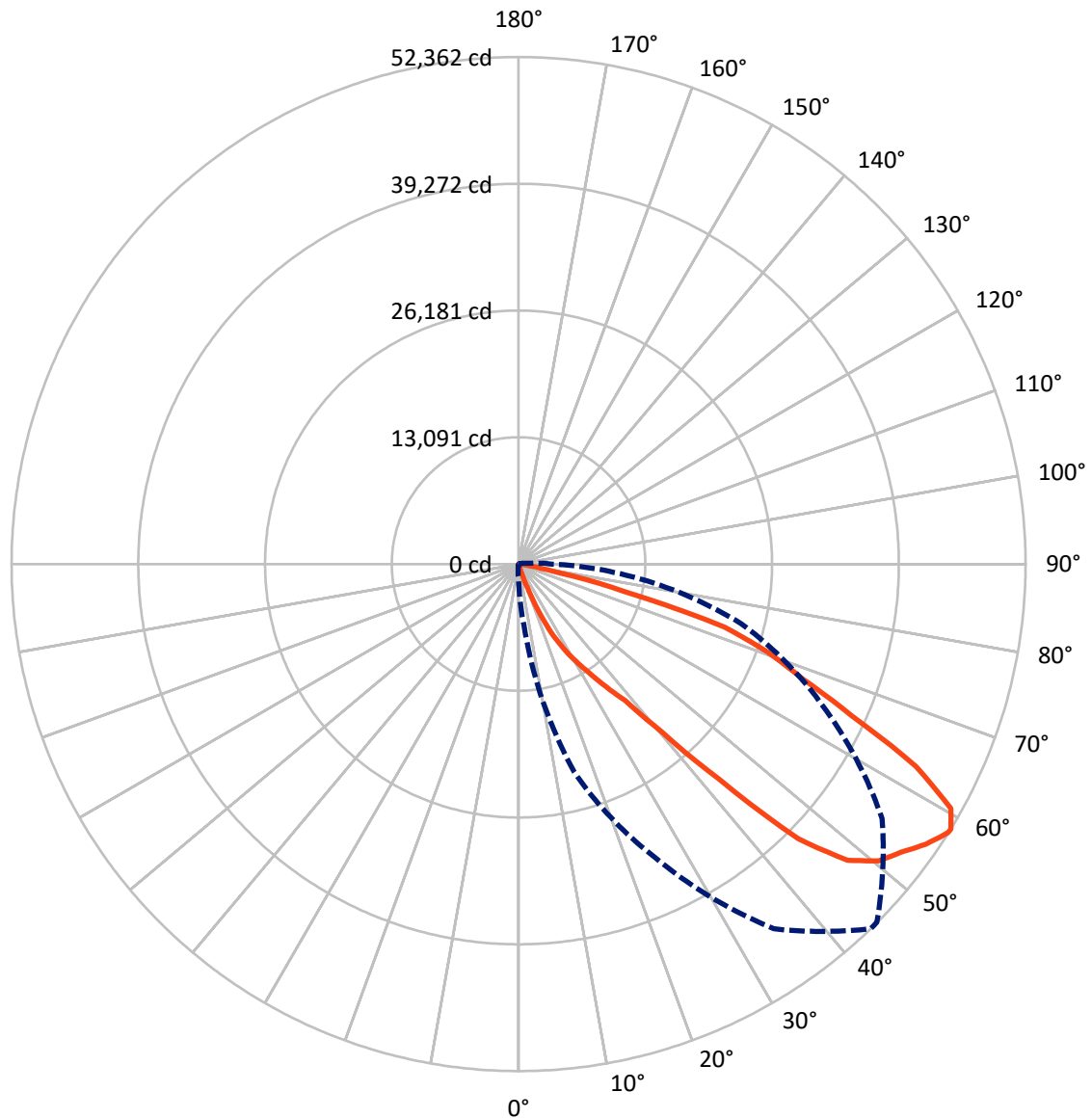


Based on 20 foot mounting height. Maximum calculated value = 35.5 fc

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	139.4	0.0	139.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	20271.7	0.0	20271.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	20411.0	0.0	20411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	0.0
10°-20°	44.8	0.2
20°-30°	483.5	2.4
30°-40°	1430.0	7.0
40°-50°	4262.1	20.9
50°-60°	6763.0	33.1
60°-70°	5641.1	27.6
70°-80°	1739.8	8.5
80°-90°	38.6	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°	20411.0	100.0
0°-180°	20411.0	100.0

Coefficient of Utilization



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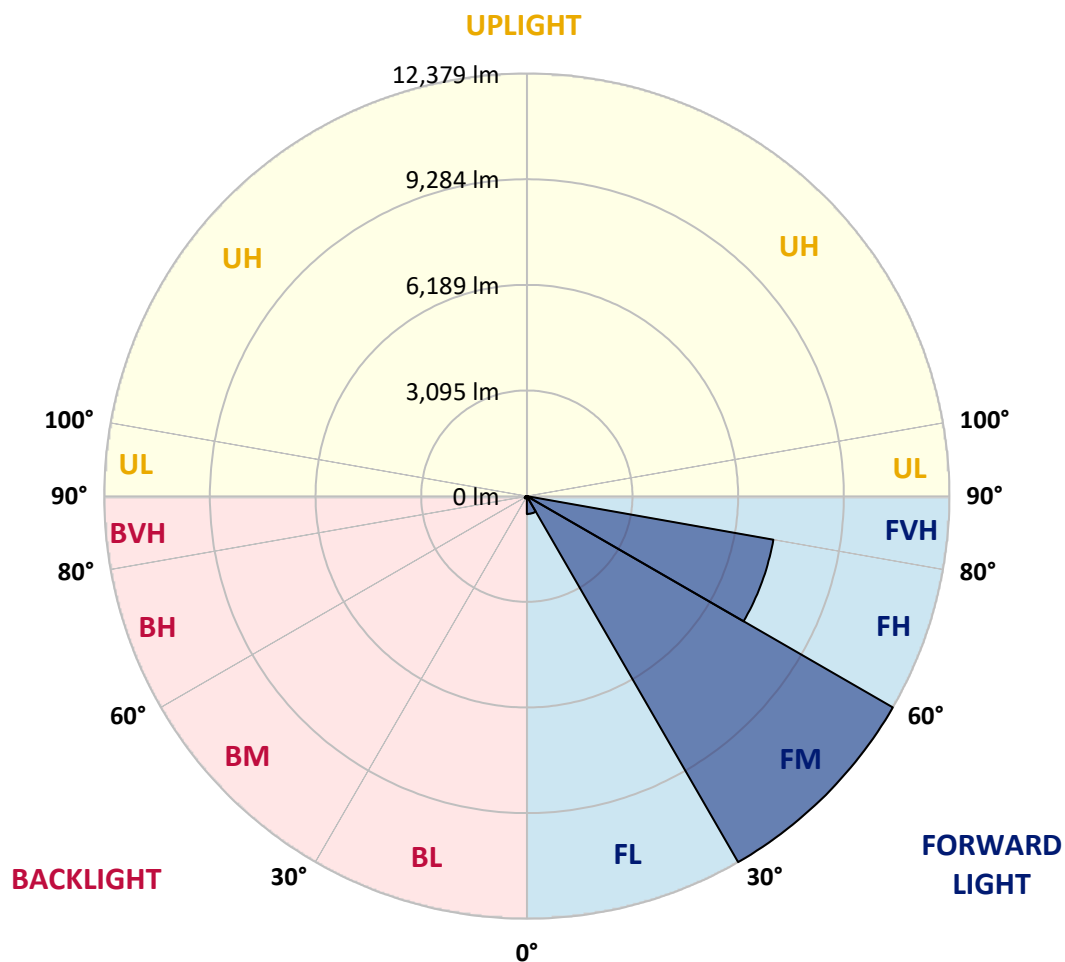
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	522.6	2.6			
FM	(30°-60°)	12378.9	60.6			
FH	(60°-80°)	7333.4	35.9			G3/7500
FVH	(80°-90°)	36.8	0.2			G1/100
BL	(0°-30°)	13.6	0.1	B0/110		
BM	(30°-60°)	76.3	0.4	B0/220		
BH	(60°-80°)	47.6	0.2	B0/110		G0/110
BVH	(80°-90°)	1.9	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°	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
2.5°	115.6	115.6	111.0	104.8	98.7	92.5	91.0	87.9	86.3	84.8
5°	120.3	120.3	118.7	114.1	107.9	103.3	103.3	98.7	95.6	92.5
7.5°	123.4	124.9	128.0	126.4	123.4	118.7	118.7	115.6	111.0	103.3
10°	128.0	132.6	138.8	141.9	143.4	143.4	141.9	140.3	132.6	121.8
12.5°	132.6	141.9	157.3	172.7	181.9	194.3	192.7	189.7	169.6	146.5
15°	141.9	155.7	188.1	232.8	302.2	345.4	362.3	346.9	280.6	197.4
17.5°	152.6	175.8	272.9	487.2	798.7	946.7	1036.1	963.7	638.3	374.7
20°	163.4	214.3	507.3	1262.8	2072.3	2556.4	2690.6	2480.9	1592.8	713.9
22.5°	181.9	300.7	1028.4	2610.4	4465.3	5191.5	5328.7	4658.0	3008.2	1409.3
25°	220.5	436.4	1773.2	4254.0	6664.0	7889.8	7832.7	6953.9	4880.0	2251.1
27.5°	276.0	635.3	2681.3	6044.2	8770.2	9851.1	9980.6	8893.6	6505.2	3310.4
30°	356.2	880.4	3655.8	7478.1	10458.6	11627.3	11648.9	10524.9	7959.2	4240.2
32.5°	433.3	1111.7	4508.5	8864.3	12122.3	13403.6	13499.2	12116.1	9044.7	5208.5
35°	491.9	1262.8	5371.9	10082.3	13799.8	15565.3	15559.1	13917.0	10330.6	6073.5
37.5°	496.5	1413.9	6153.6	11328.2	15924.5	17901.2	18097.0	16286.9	11884.8	7143.5
40°	485.7	1583.5	7143.5	13271.0	19753.0	22785.9	22958.6	20676.6	15002.5	8975.3
42.5°	498.0	1878.0	8750.2	16858.9	26110.2	30466.0	30799.0	28399.9	20733.7	12712.8
45°	562.8	2431.5	12116.1	22861.4	35171.8	40482.0	40371.0	36915.7	27402.3	18402.3
47.5°	777.1	3786.9	17105.6	28703.6	40963.1	45692.0	45787.6	41564.4	31294.0	22776.6
50°	1195.0	5794.4	21298.0	31792.0	43453.2	48197.6	48108.2	43228.1	32772.6	24930.6
52.5°	1554.2	7246.8	23401.1	32875.9	43772.4	49435.7	49429.6	43666.0	33002.4	25115.7
55°	1643.6	7356.3	23418.1	32934.5	44487.8	51056.2	51259.8	44743.8	33300.0	24307.7
57.5°	1608.2	6512.9	22440.5	33273.8	45761.4	52309.8	52320.6	45787.6	34055.5	23812.8
58°	1577.3	6380.3	22243.2	33466.5	45980.4	52362.2	52336.0	45835.4	34670.7	23794.3
60°	1404.7	5540.0	21473.8	33958.3	45655.0	51286.0	51040.8	44791.6	34579.7	23604.6
62.5°	1104.0	4321.9	20716.7	33389.4	42167.3	46076.0	46177.7	39655.6	31523.7	22499.1
65°	878.9	3221.0	19137.8	29288.0	34723.1	37837.7	38217.0	32246.9	26312.2	19051.5
67.5°	700.0	2328.2	16054.0	23317.8	27476.3	31579.2	31855.2	27073.9	20385.2	14597.0
70°	569.0	1574.3	11081.5	17053.2	22662.5	27275.8	27292.8	22491.4	15215.3	9564.3
72.5°	504.2	1090.1	6432.7	12436.8	18376.1	22226.2	21777.5	18251.2	11693.6	5664.9
75°	436.4	723.1	3154.7	7603.0	11141.6	11217.2	11388.3	8466.5	5845.3	2693.7
77.5°	359.3	513.4	1242.8	2076.9	3341.3	4277.2	4436.0	3361.3	1944.3	663.0
80°	246.7	243.6	334.6	636.8	956.0	1198.0	1117.9	865.0	508.8	254.4
82.5°	106.4	115.6	151.1	181.9	148.0	143.4	137.2	87.9	67.8	52.4
85°	33.9	30.8	32.4	32.4	26.2	20.0	20.0	9.3	0.0	0.0
87.5°	17.0	13.9	13.9	12.3	7.7	3.1	1.5	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°
89.4	0°	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
83.3	2.5°	81.7	81.7	78.6	75.6	74.0	70.9	69.4	67.8	66.3	64.8
89.4	5°	86.3	84.8	80.2	75.6	70.9	66.3	63.2	60.1	57.0	55.5
98.7	7.5°	94.1	91.0	81.7	74.0	67.8	61.7	58.6	54.0	50.9	46.3
109.5	10°	103.3	97.1	84.8	75.6	66.3	58.6	54.0	49.3	44.7	38.5
124.9	12.5°	115.6	104.8	89.4	74.0	63.2	54.0	49.3	43.2	38.5	33.9
144.9	15°	126.4	112.6	91.0	74.0	60.1	49.3	43.2	37.0	32.4	26.2
181.9	17.5°	141.9	118.7	89.4	69.4	55.5	43.2	37.0	32.4	24.7	15.4
269.8	20°	168.1	123.4	86.3	64.8	47.8	35.5	27.8	21.6	10.8	3.1
405.5	22.5°	209.7	135.7	83.3	58.6	41.6	27.8	18.5	7.7	0.0	0.0
616.8	25°	289.9	157.3	83.3	55.5	37.0	20.0	6.2	0.0	0.0	0.0
875.8	27.5°	385.5	186.6	83.3	47.8	29.3	10.8	0.0	0.0	0.0	0.0
1193.4	30°	482.6	218.9	83.3	41.6	23.1	1.5	0.0	0.0	0.0	0.0
1469.4	32.5°	575.1	246.7	84.8	35.5	15.4	0.0	0.0	0.0	0.0	0.0
1851.8	35°	669.2	251.3	83.3	30.8	9.3	0.0	0.0	0.0	0.0	0.0
2320.5	37.5°	789.4	242.1	78.6	27.8	4.6	0.0	0.0	0.0	0.0	0.0
3052.9	40°	971.4	246.7	74.0	26.2	1.5	0.0	0.0	0.0	0.0	0.0
4358.9	42.5°	1307.5	266.7	67.8	26.2	0.0	0.0	0.0	0.0	0.0	0.0
6943.1	45°	2260.4	357.7	61.7	27.8	0.0	0.0	0.0	0.0	0.0	0.0
10423.1	47.5°	3739.1	643.0	60.1	27.8	0.0	0.0	0.0	0.0	0.0	0.0
12555.5	50°	4772.1	809.5	63.2	29.3	0.0	0.0	0.0	0.0	0.0	0.0
12822.3	52.5°	4764.4	902.0	66.3	30.8	6.2	0.0	0.0	0.0	0.0	0.0
11818.5	55°	4235.5	919.0	70.9	33.9	20.0	0.0	0.0	0.0	0.0	0.0
10156.4	57.5°	3540.2	838.8	81.7	41.6	37.0	0.0	0.0	0.0	0.0	0.0
9895.8	58°	3416.8	801.8	84.8	43.2	40.1	0.0	0.0	0.0	0.0	0.0
8583.6	60°	2800.1	653.8	107.9	54.0	54.0	0.0	0.0	0.0	0.0	0.0
7037.1	62.5°	1933.5	570.5	123.4	69.4	55.5	0.0	0.0	0.0	0.0	0.0
5188.4	65°	1367.6	515.0	134.1	74.0	44.7	0.0	0.0	0.0	0.0	0.0
3686.6	67.5°	1022.3	474.9	148.0	75.6	23.1	0.0	0.0	0.0	0.0	0.0
2312.8	70°	783.3	445.6	181.9	80.2	6.2	0.0	0.0	0.0	0.0	0.0
1378.4	72.5°	638.3	411.7	220.5	83.3	0.0	0.0	0.0	0.0	0.0	0.0
826.4	75°	528.9	371.6	212.8	91.0	0.0	0.0	0.0	0.0	0.0	0.0
441.0	77.5°	351.5	288.3	194.3	91.0	0.0	0.0	0.0	0.0	0.0	0.0
157.3	80°	123.4	114.1	151.1	80.2	0.0	0.0	0.0	0.0	0.0	0.0
32.4	82.5°	18.5	15.4	21.6	27.8	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°
89.4	0°	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
63.2	2.5°	63.2	63.2	61.7	63.2	63.2	66.3	74.0	84.8	97.1	101.8
54.0	5°	52.4	50.9	49.3	49.3	49.3	54.0	60.1	72.5	86.3	92.5
44.7	7.5°	43.2	41.6	40.1	38.5	38.5	41.6	49.3	63.2	77.1	83.3
37.0	10°	35.5	32.4	30.8	29.3	29.3	32.4	40.1	54.0	69.4	75.6
30.8	12.5°	29.3	24.7	21.6	20.0	18.5	23.1	30.8	43.2	60.1	67.8
23.1	15°	20.0	15.4	10.8	9.3	7.7	12.3	20.0	33.9	50.9	60.1
12.3	17.5°	10.8	4.6	1.5	0.0	0.0	3.1	9.3	24.7	41.6	49.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	30.8	38.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	18.5	26.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	13.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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	4.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.3
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°
89.4	0°	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
106.4	2.5°	109.5	107.9	104.8	101.8	101.8	101.8	106.4	111.0	115.6	115.6
95.6	5°	101.8	101.8	100.2	97.1	97.1	98.7	104.8	112.6	118.7	120.3
87.9	7.5°	94.1	97.1	94.1	92.5	94.1	95.6	101.8	111.0	120.3	123.4
81.7	10°	89.4	91.0	91.0	89.4	89.4	92.5	98.7	111.0	123.4	128.0
74.0	12.5°	83.3	86.3	84.8	84.8	84.8	87.9	95.6	109.5	126.4	132.6
66.3	15°	77.1	81.7	81.7	80.2	80.2	81.7	92.5	107.9	131.1	141.9
57.0	17.5°	70.9	75.6	77.1	74.0	74.0	77.1	87.9	107.9	134.1	152.6
46.3	20°	58.6	66.3	70.9	66.3	66.3	69.4	80.2	101.8	135.7	163.4
33.9	22.5°	46.3	54.0	60.1	58.6	58.6	60.1	74.0	97.1	137.2	181.9
20.0	25°	33.9	41.6	46.3	49.3	49.3	54.0	67.8	94.1	143.4	220.5
9.3	27.5°	20.0	29.3	35.5	38.5	40.1	46.3	63.2	91.0	154.2	276.0
0.0	30°	9.3	17.0	24.7	30.8	30.8	41.6	58.6	87.9	168.1	356.2
0.0	32.5°	0.0	7.7	12.3	21.6	23.1	33.9	54.0	84.8	188.1	433.3
0.0	35°	0.0	0.0	6.2	17.0	17.0	27.8	49.3	81.7	218.9	491.9
0.0	37.5°	0.0	0.0	0.0	12.3	13.9	24.7	47.8	80.2	225.1	496.5
0.0	40°	0.0	0.0	0.0	9.3	10.8	23.1	47.8	81.7	203.5	485.7
0.0	42.5°	0.0	0.0	0.0	6.2	7.7	23.1	47.8	84.8	183.5	498.0
0.0	45°	0.0	0.0	0.0	4.6	6.2	24.7	46.3	83.3	172.7	562.8
0.0	47.5°	0.0	0.0	0.0	6.2	9.3	24.7	44.7	81.7	174.2	777.1
0.0	50°	0.0	0.0	0.0	7.7	10.8	24.7	46.3	78.6	191.2	1195.0
0.0	52.5°	0.0	0.0	0.0	6.2	9.3	27.8	50.9	77.1	208.2	1554.2
0.0	55°	0.0	0.0	0.0	1.5	4.6	35.5	55.5	77.1	234.4	1643.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	40.1	63.2	81.7	277.5	1608.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	40.1	64.8	81.7	280.6	1577.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	40.1	70.9	91.0	302.2	1404.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	33.9	84.8	114.1	314.5	1104.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	27.8	100.2	124.9	323.8	878.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	26.2	103.3	126.4	328.4	700.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	27.8	101.8	135.7	343.8	569.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	30.8	92.5	149.6	343.8	504.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	32.4	86.3	168.1	313.0	436.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	30.8	84.8	195.8	279.1	359.3
0.0	80°	3.1	4.6	4.6	3.1	3.1	26.2	83.3	198.9	237.4	246.7
1.5	82.5°	9.3	12.3	10.8	7.7	7.7	23.1	74.0	166.5	123.4	106.4
9.3	85°	17.0	20.0	20.0	17.0	17.0	21.6	46.3	60.1	41.6	33.9
17.0	87.5°	23.1	26.2	26.2	23.1	23.1	21.6	20.0	18.5	17.0	17.0
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



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

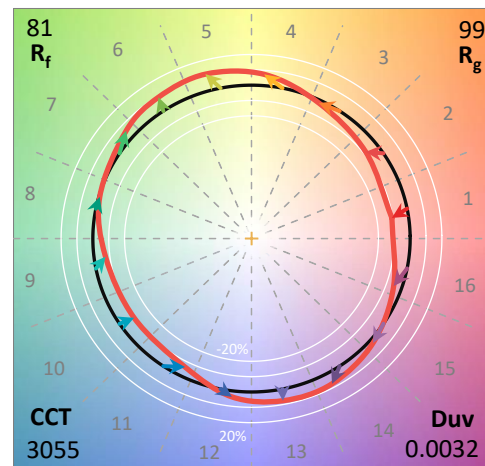
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

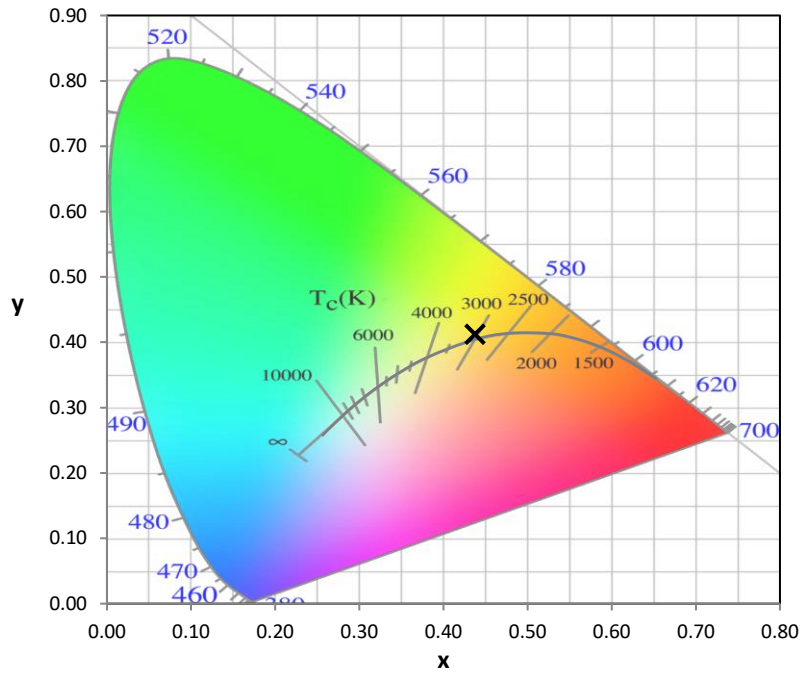
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

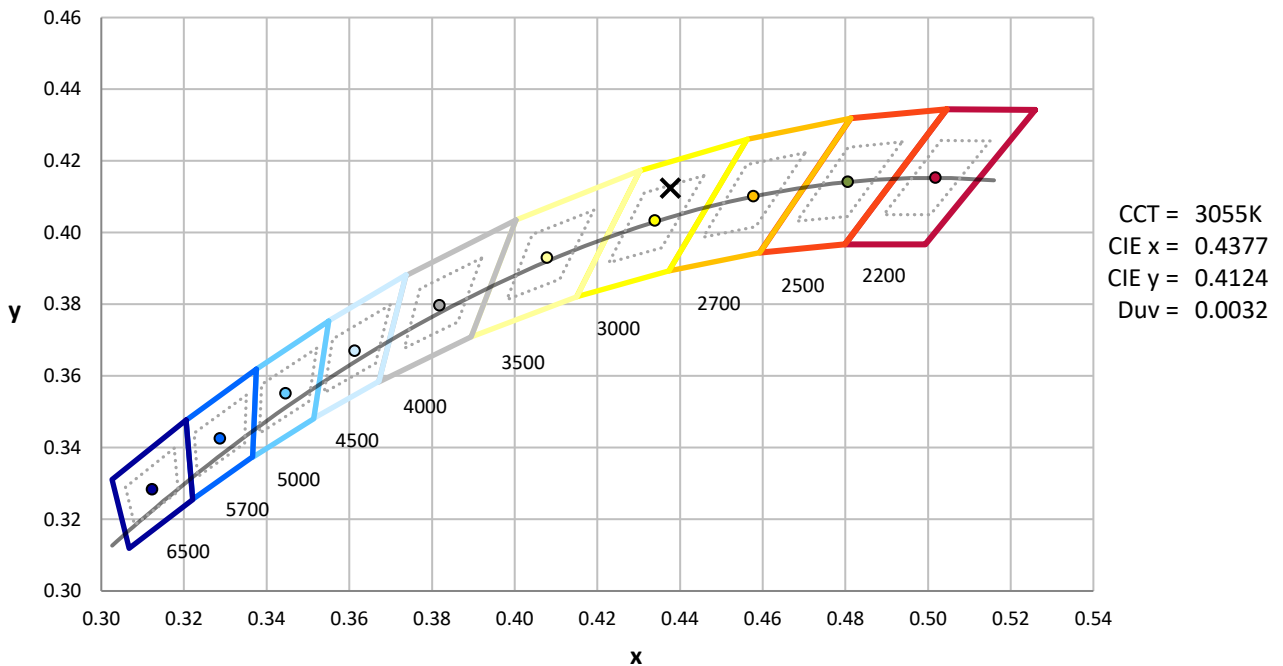
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



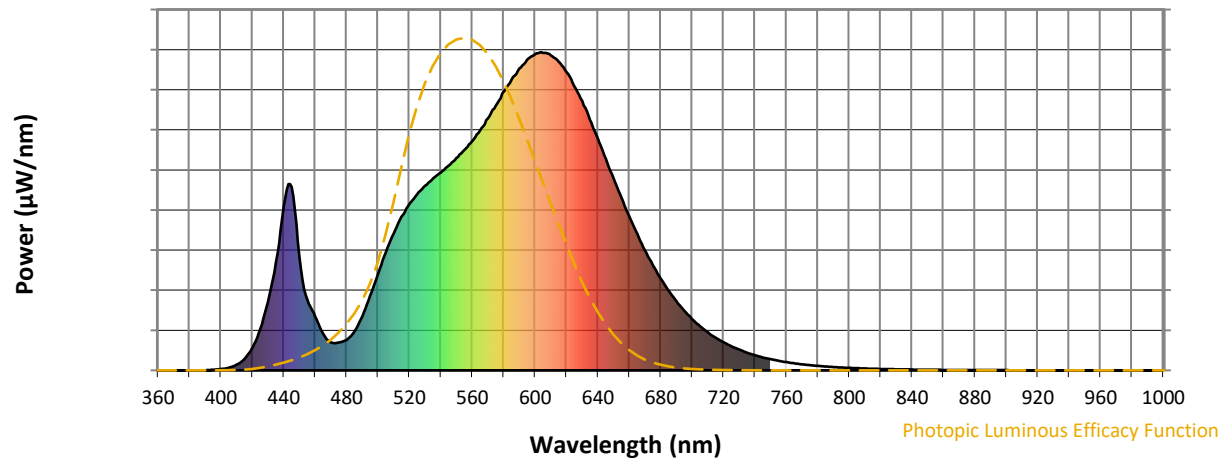
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

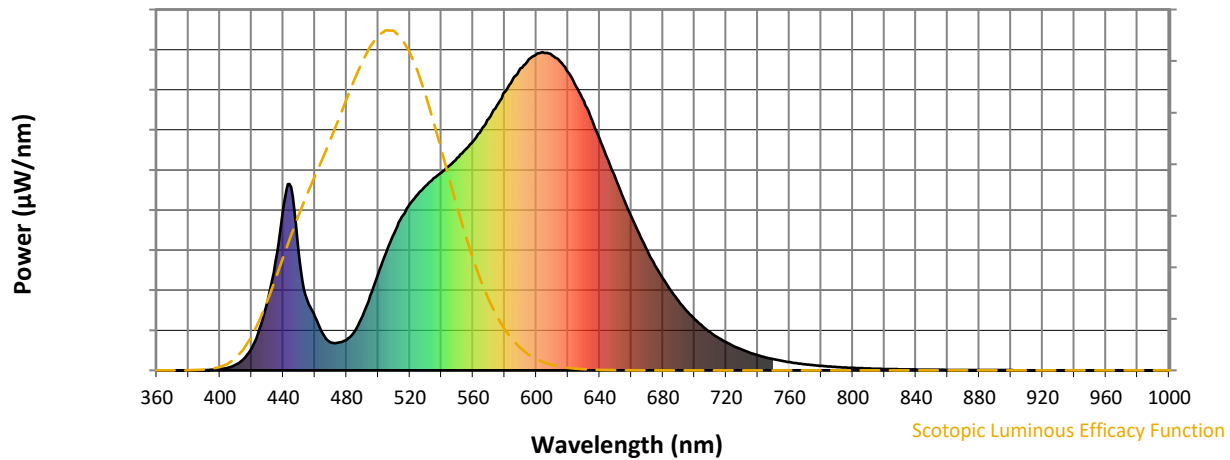


Photopic Lumens: NR

λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



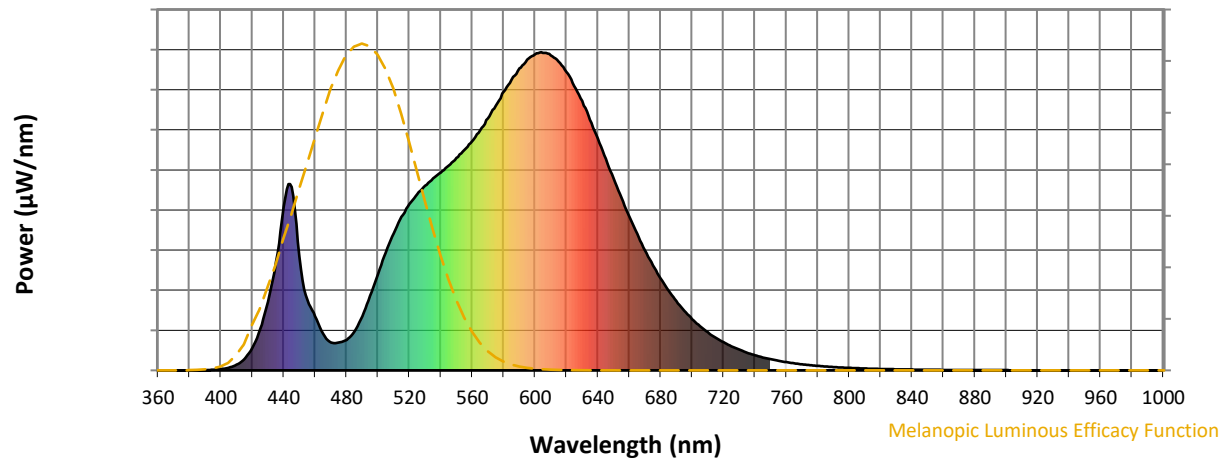
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

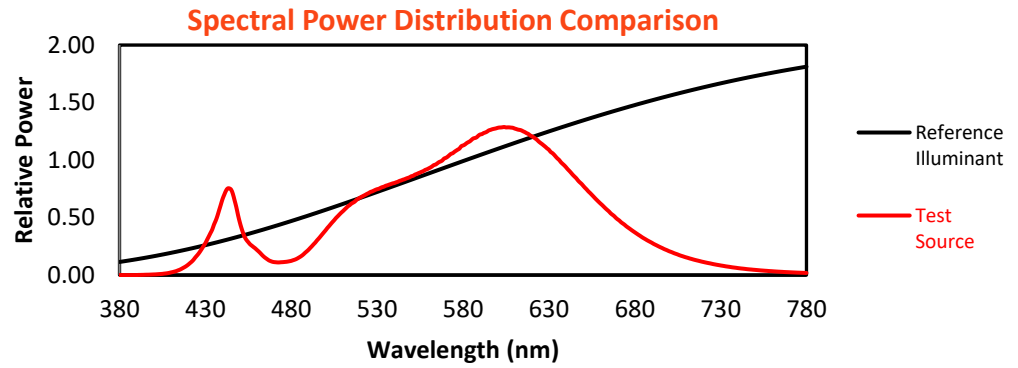
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

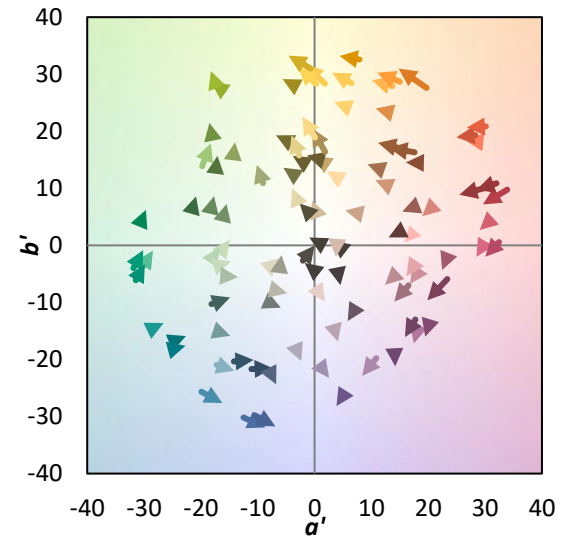
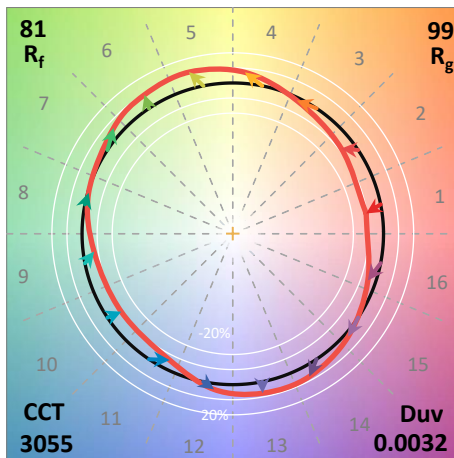
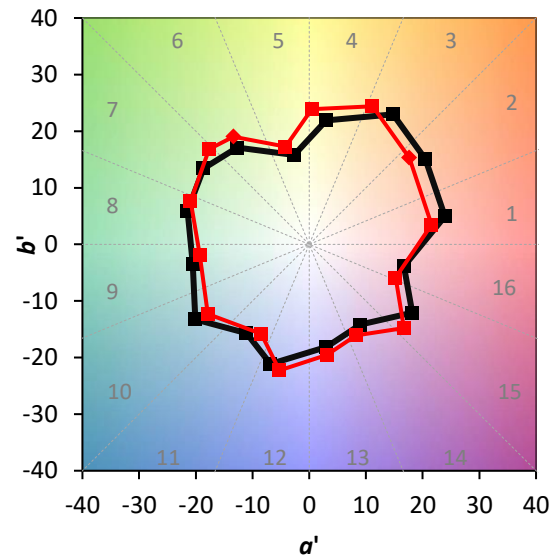
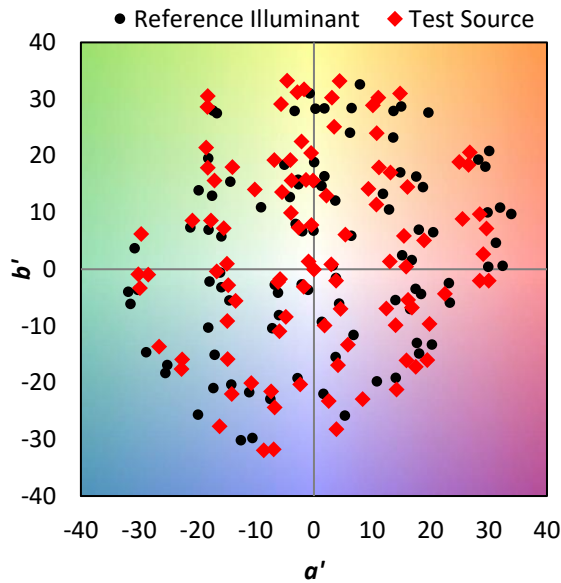
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

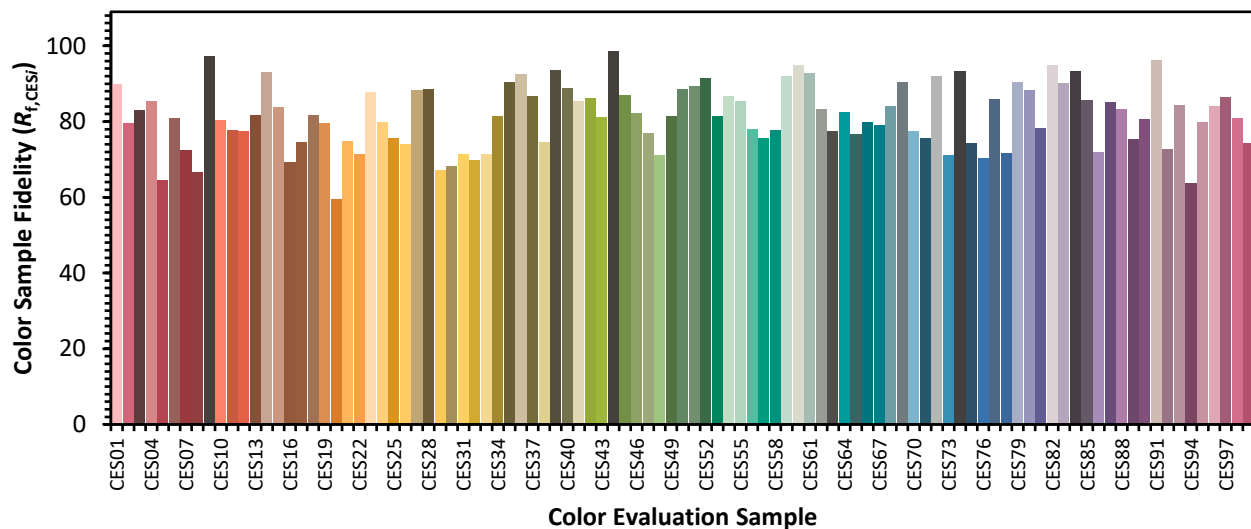


Color Vector Graphics

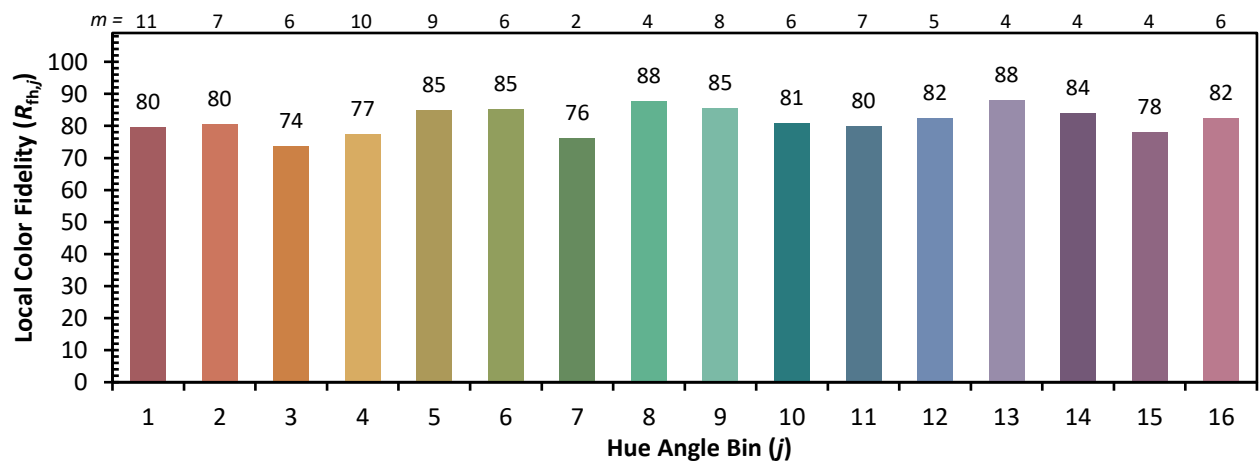
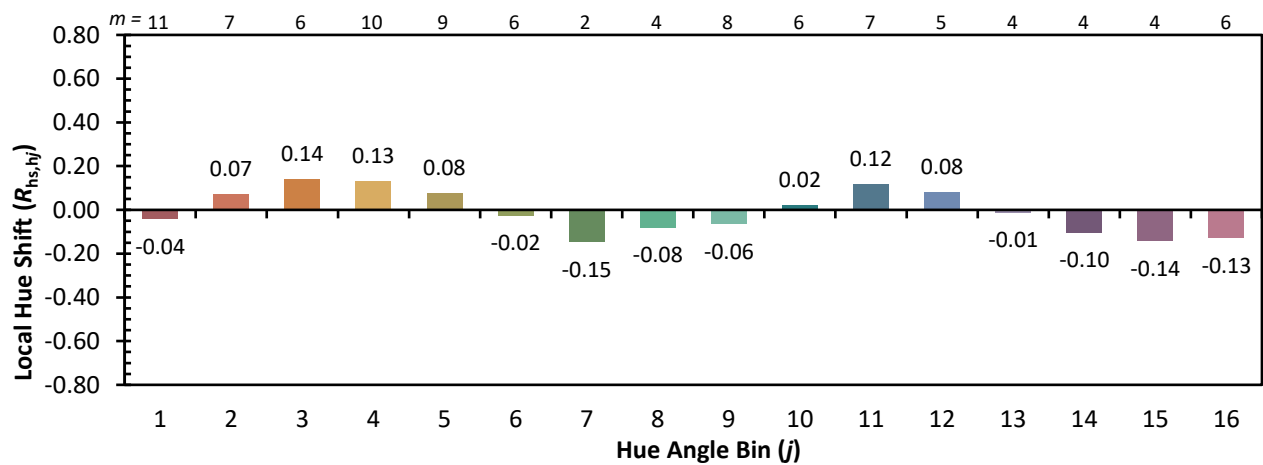
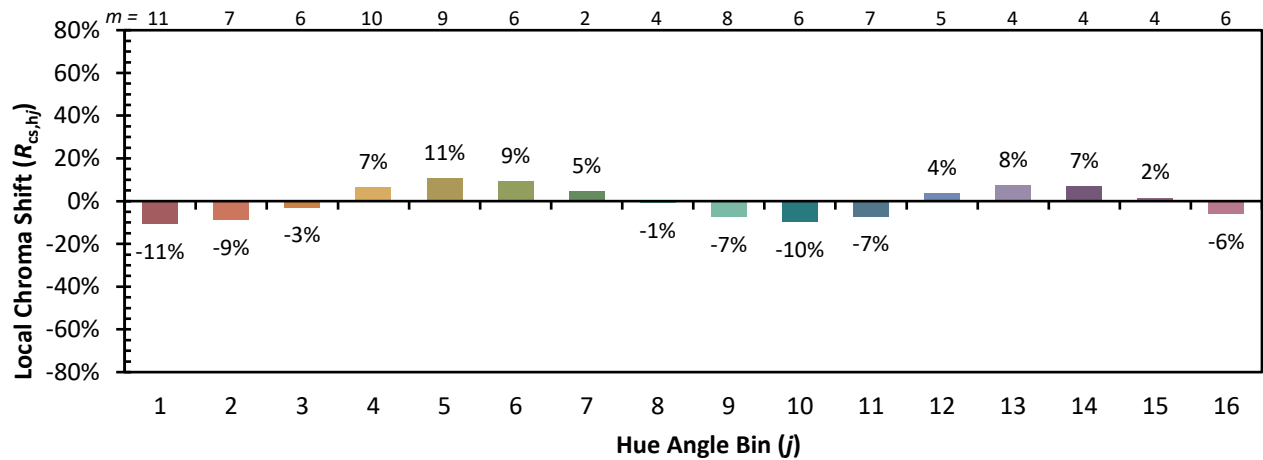


Individual Sample Fidelity Index ($R_{f,i}$)

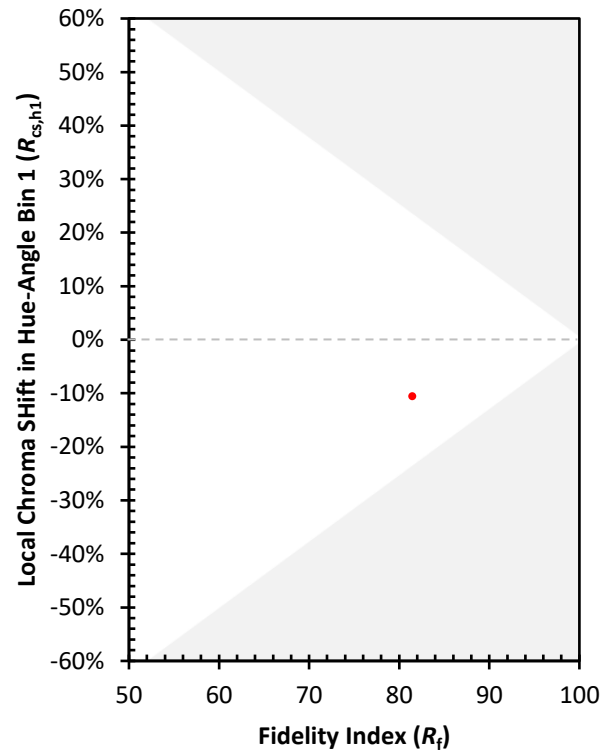
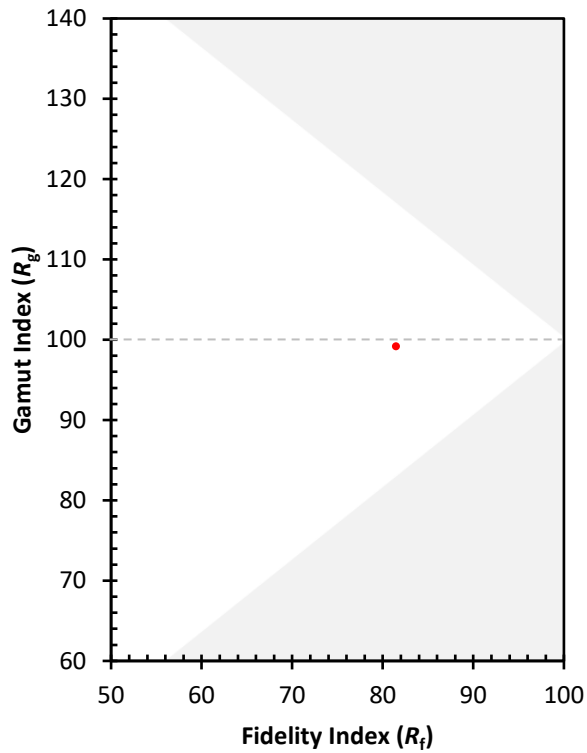
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)