

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: P1049958

Luminaire Tested: **GALN-SA8B-930-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049958
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 8xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22522.7 lumens
Efficiency: N/A
Efficacy: 79.6 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): 282.8
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

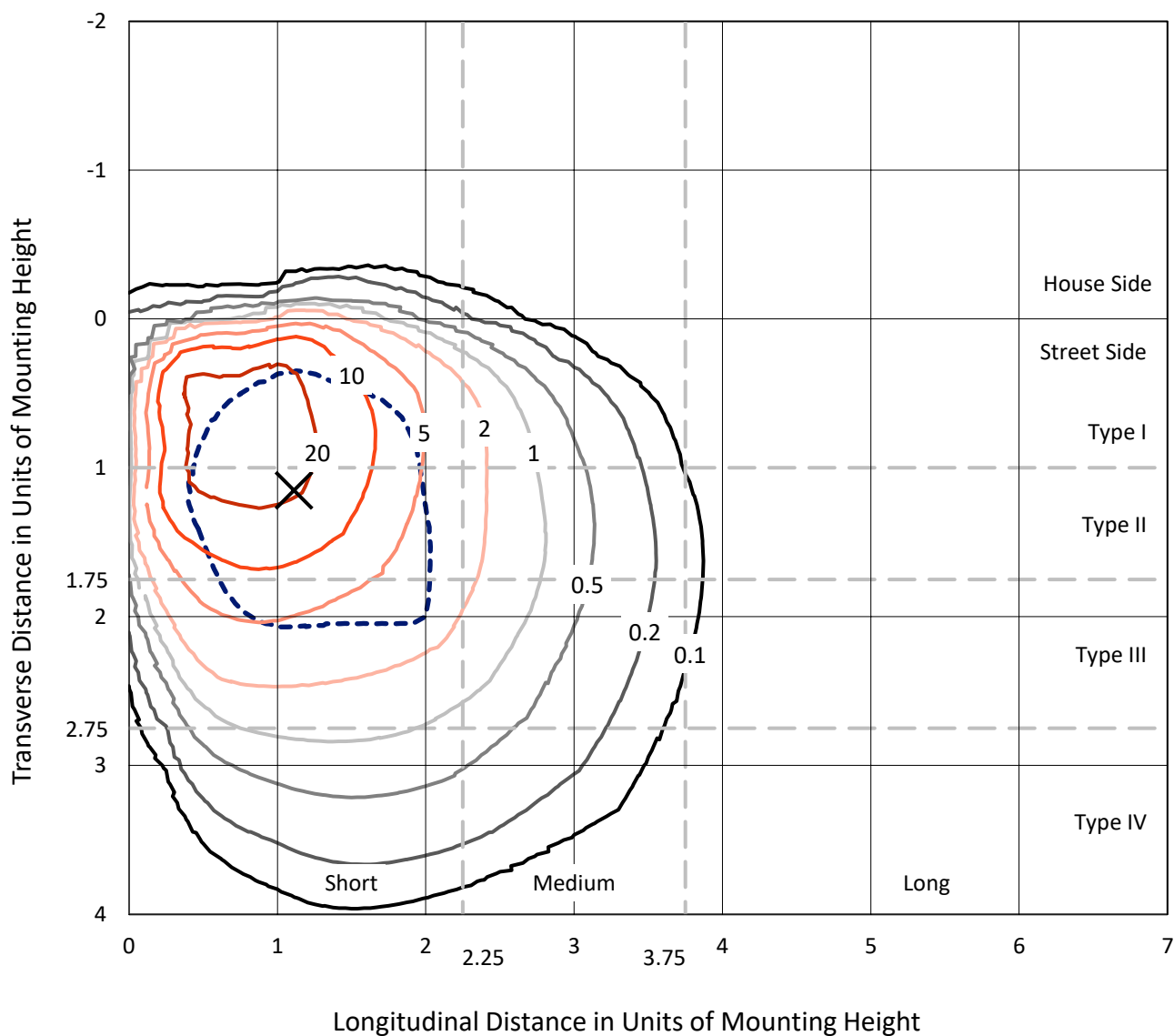
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

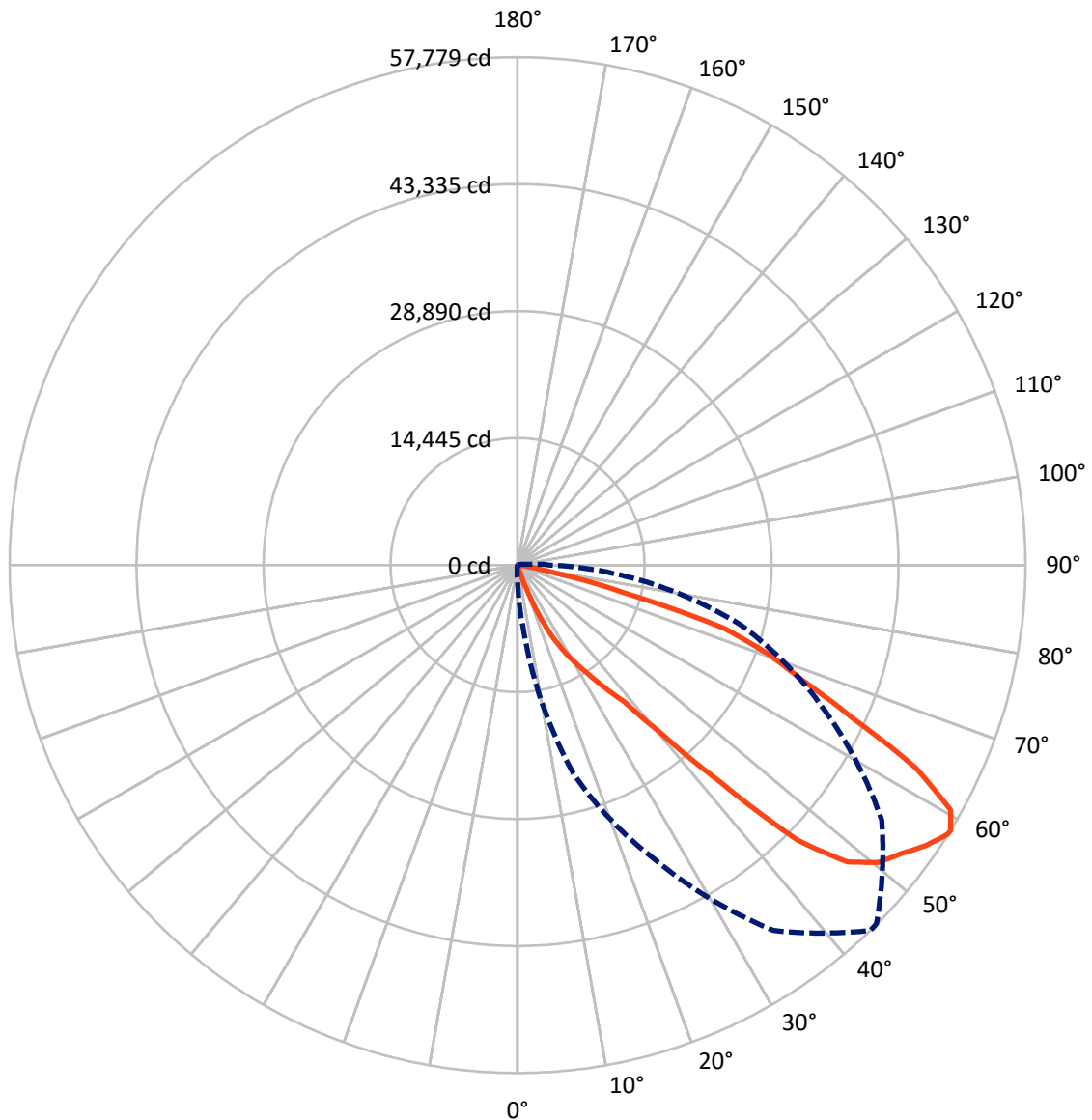


Based on 20 foot mounting height. Maximum calculated value = 39.2 fc

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	153.8	0.0	153.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	22368.9	0.0	22368.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	22522.7	0.0	22522.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.0
10°-20°	49.4	0.2
20°-30°	533.6	2.4
30°-40°	1577.9	7.0
40°-50°	4703.1	20.9
50°-60°	7462.7	33.1
60°-70°	6224.8	27.6
70°-80°	1919.8	8.5
80°-90°	42.6	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°	22522.7	100.0
0°-180°	22522.7	100.0



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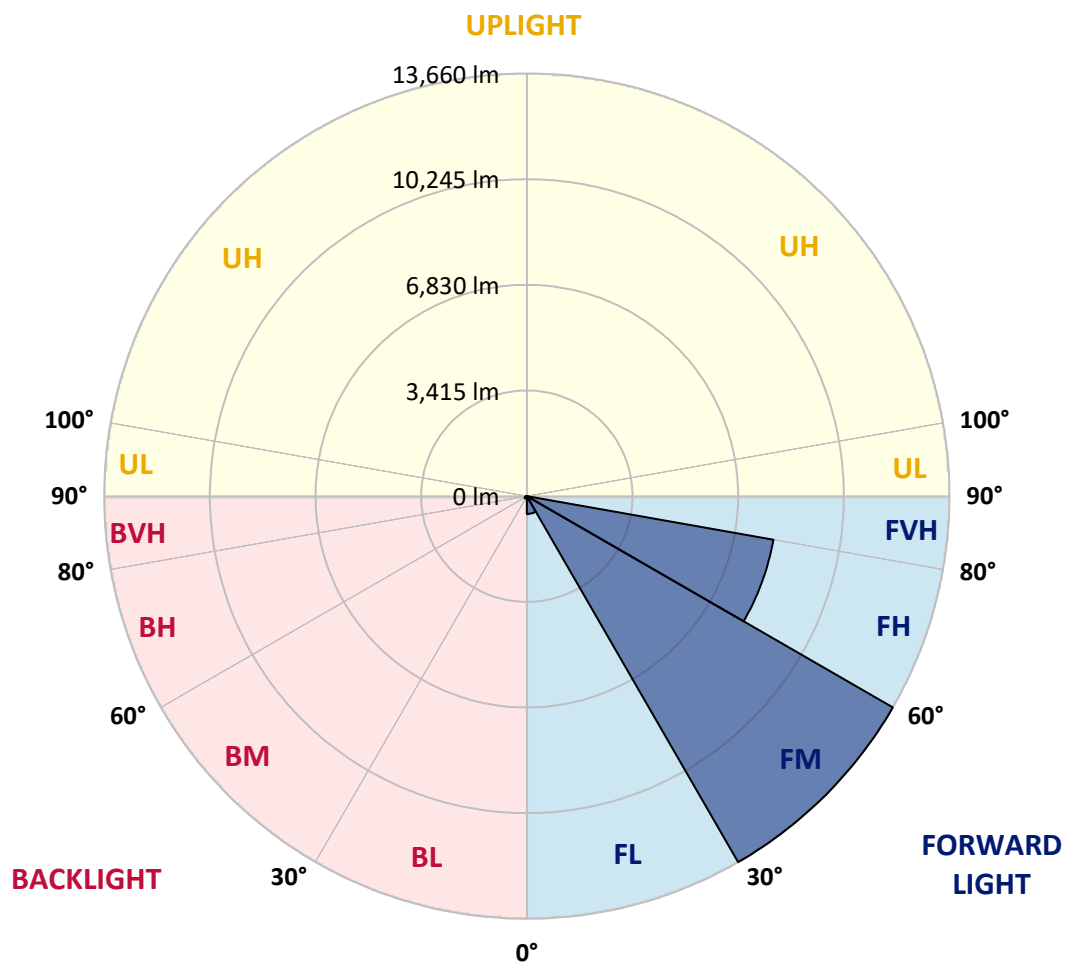
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	576.7	2.6			
FM	(30°-60°)	13659.5	60.6			
FH	(60°-80°)	8092.1	35.9			G4/12000
FVH	(80°-90°)	40.6	0.2			G1/100
BL	(0°-30°)	15.0	0.1	B0/110		
BM	(30°-60°)	84.2	0.4	B0/220		
BH	(60°-80°)	52.5	0.2	B0/110		G0/110
BVH	(80°-90°)	2.1	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°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2.5°	127.6	127.6	122.5	115.7	108.9	102.1	100.4	97.0	95.3	93.6
5°	132.7	132.7	131.0	125.9	119.1	114.0	114.0	108.9	105.5	102.1
7.5°	136.1	137.8	141.2	139.5	136.1	131.0	131.0	127.6	122.5	114.0
10°	141.2	146.3	153.1	156.5	158.2	158.2	156.5	154.8	146.3	134.4
12.5°	146.3	156.5	173.5	190.6	200.8	214.4	212.7	209.3	187.2	161.6
15°	156.5	171.8	207.6	256.9	333.5	381.1	399.8	382.8	309.7	217.8
17.5°	168.4	194.0	301.1	537.6	881.3	1044.7	1143.3	1063.4	704.4	413.4
20°	180.3	236.5	559.8	1393.4	2286.7	2820.9	2968.9	2737.5	1757.5	787.7
22.5°	200.8	331.8	1134.8	2880.5	4927.2	5728.6	5880.0	5139.9	3319.4	1555.1
25°	243.3	481.5	1956.6	4694.2	7353.4	8706.0	8643.1	7673.3	5384.9	2484.0
27.5°	304.5	701.0	2958.7	6669.5	9677.5	10870.2	11013.1	9813.7	7178.2	3652.9
30°	393.0	971.5	4034.0	8251.8	11540.6	12830.2	12854.1	11613.7	8782.6	4678.8
32.5°	478.1	1226.7	4974.9	9781.3	13376.4	14790.2	14895.7	13369.6	9980.4	5747.3
35°	542.7	1393.4	5927.7	11125.4	15227.5	17175.6	17168.8	15356.8	11399.4	6701.8
37.5°	547.8	1560.2	6790.3	12500.2	17572.0	19753.2	19969.3	17971.9	13114.4	7882.6
40°	535.9	1747.3	7882.6	14643.9	21796.6	25143.2	25333.8	22815.7	16554.6	9903.8
42.5°	549.6	2072.3	9655.4	18603.1	28811.4	33617.9	33985.4	31338.0	22878.7	14028.0
45°	621.0	2683.1	13369.6	25226.6	38810.6	44670.2	44547.7	40734.8	30237.2	20306.2
47.5°	857.5	4178.6	18875.3	31673.2	45201.0	50419.2	50524.7	45864.5	34531.5	25133.0
50°	1318.6	6393.8	23501.4	35081.1	47948.8	53184.0	53085.3	47700.4	36163.2	27509.9
52.5°	1715.0	7996.6	25822.1	36277.2	48300.9	54550.2	54543.4	48183.5	36416.7	27714.0
55°	1813.7	8117.4	25840.8	36341.8	49090.4	56338.3	56562.9	49372.8	36745.1	26822.5
57.5°	1774.6	7186.7	24762.1	36716.1	50495.7	57721.6	57733.5	50524.7	37578.7	26276.4
58°	1740.5	7040.4	24544.3	36928.8	50737.3	57779.4	57750.5	50577.4	38257.6	26256.0
60°	1550.0	6113.1	23695.3	37471.6	50378.4	56591.9	56321.3	49425.6	38157.2	26046.7
62.5°	1218.2	4769.0	22860.0	36843.7	46529.8	50842.8	50955.1	43758.2	34785.1	24826.8
65°	969.8	3554.2	21117.7	32318.0	38315.4	41752.3	42170.8	35583.0	29034.3	21022.5
67.5°	772.4	2569.1	17714.9	25730.2	30318.9	34846.3	35150.9	29874.8	22494.2	16107.1
70°	627.8	1737.1	12227.9	18817.4	25007.1	30097.7	30116.4	24818.3	16789.4	10553.8
72.5°	556.4	1202.9	7098.2	13723.5	20277.2	24525.6	24030.5	20139.4	12903.4	6250.9
75°	481.5	798.0	3481.1	8389.6	12294.3	12377.7	12566.5	9342.4	6450.0	2972.3
77.5°	396.4	566.6	1371.3	2291.8	3686.9	4719.7	4894.9	3709.0	2145.5	731.6
80°	272.2	268.8	369.2	702.7	1054.9	1322.0	1233.5	954.5	561.5	280.7
82.5°	117.4	127.6	166.7	200.8	163.3	158.2	151.4	97.0	74.9	57.8
85°	37.4	34.0	35.7	35.7	28.9	22.1	22.1	10.2	0.0	0.0
87.5°	18.7	15.3	15.3	13.6	8.5	3.4	1.7	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°
98.7	0°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
91.9	2.5°	90.2	90.2	86.8	83.4	81.7	78.3	76.6	74.9	73.2	71.5
98.7	5°	95.3	93.6	88.5	83.4	78.3	73.2	69.8	66.4	63.0	61.3
108.9	7.5°	103.8	100.4	90.2	81.7	74.9	68.1	64.7	59.5	56.1	51.0
120.8	10°	114.0	107.2	93.6	83.4	73.2	64.7	59.5	54.4	49.3	42.5
137.8	12.5°	127.6	115.7	98.7	81.7	69.8	59.5	54.4	47.6	42.5	37.4
159.9	15°	139.5	124.2	100.4	81.7	66.4	54.4	47.6	40.8	35.7	28.9
200.8	17.5°	156.5	131.0	98.7	76.6	61.3	47.6	40.8	35.7	27.2	17.0
297.7	20°	185.5	136.1	95.3	71.5	52.7	39.1	30.6	23.8	11.9	3.4
447.5	22.5°	231.4	149.7	91.9	64.7	45.9	30.6	20.4	8.5	0.0	0.0
680.6	25°	319.9	173.5	91.9	61.3	40.8	22.1	6.8	0.0	0.0	0.0
966.4	27.5°	425.3	205.9	91.9	52.7	32.3	11.9	0.0	0.0	0.0	0.0
1316.9	30°	532.5	241.6	91.9	45.9	25.5	1.7	0.0	0.0	0.0	0.0
1621.4	32.5°	634.6	272.2	93.6	39.1	17.0	0.0	0.0	0.0	0.0	0.0
2043.4	35°	738.4	277.3	91.9	34.0	10.2	0.0	0.0	0.0	0.0	0.0
2560.6	37.5°	871.1	267.1	86.8	30.6	5.1	0.0	0.0	0.0	0.0	0.0
3368.8	40°	1071.9	272.2	81.7	28.9	1.7	0.0	0.0	0.0	0.0	0.0
4809.8	42.5°	1442.8	294.3	74.9	28.9	0.0	0.0	0.0	0.0	0.0	0.0
7661.4	45°	2494.2	394.7	68.1	30.6	0.0	0.0	0.0	0.0	0.0	0.0
11501.4	47.5°	4125.9	709.5	66.4	30.6	0.0	0.0	0.0	0.0	0.0	0.0
13854.5	50°	5265.8	893.2	69.8	32.3	0.0	0.0	0.0	0.0	0.0	0.0
14148.8	52.5°	5257.3	995.3	73.2	34.0	6.8	0.0	0.0	0.0	0.0	0.0
13041.2	55°	4673.7	1014.0	78.3	37.4	22.1	0.0	0.0	0.0	0.0	0.0
11207.1	57.5°	3906.4	925.6	90.2	45.9	40.8	0.0	0.0	0.0	0.0	0.0
10919.6	58°	3770.3	884.7	93.6	47.6	44.2	0.0	0.0	0.0	0.0	0.0
9471.7	60°	3089.7	721.4	119.1	59.5	59.5	0.0	0.0	0.0	0.0	0.0
7765.2	62.5°	2133.6	629.5	136.1	76.6	61.3	0.0	0.0	0.0	0.0	0.0
5725.2	65°	1509.1	568.3	148.0	81.7	49.3	0.0	0.0	0.0	0.0	0.0
4068.0	67.5°	1128.0	524.0	163.3	83.4	25.5	0.0	0.0	0.0	0.0	0.0
2552.1	70°	864.3	491.7	200.8	88.5	6.8	0.0	0.0	0.0	0.0	0.0
1521.0	72.5°	704.4	454.3	243.3	91.9	0.0	0.0	0.0	0.0	0.0	0.0
911.9	75°	583.6	410.0	234.8	100.4	0.0	0.0	0.0	0.0	0.0	0.0
486.6	77.5°	387.9	318.2	214.4	100.4	0.0	0.0	0.0	0.0	0.0	0.0
173.5	80°	136.1	125.9	166.7	88.5	0.0	0.0	0.0	0.0	0.0	0.0
35.7	82.5°	20.4	17.0	23.8	30.6	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°
98.7	0°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
69.8	2.5°	69.8	69.8	68.1	69.8	69.8	73.2	81.7	93.6	107.2	112.3
59.5	5°	57.8	56.1	54.4	54.4	54.4	59.5	66.4	80.0	95.3	102.1
49.3	7.5°	47.6	45.9	44.2	42.5	42.5	45.9	54.4	69.8	85.1	91.9
40.8	10°	39.1	35.7	34.0	32.3	32.3	35.7	44.2	59.5	76.6	83.4
34.0	12.5°	32.3	27.2	23.8	22.1	20.4	25.5	34.0	47.6	66.4	74.9
25.5	15°	22.1	17.0	11.9	10.2	8.5	13.6	22.1	37.4	56.1	66.4
13.6	17.5°	11.9	5.1	1.7	0.0	0.0	3.4	10.2	27.2	45.9	54.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	34.0	42.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	20.4	28.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	15.3
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
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	5.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
98.7	0°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
117.4	2.5°	120.8	119.1	115.7	112.3	112.3	112.3	117.4	122.5	127.6	127.6
105.5	5°	112.3	112.3	110.6	107.2	107.2	108.9	115.7	124.2	131.0	132.7
97.0	7.5°	103.8	107.2	103.8	102.1	103.8	105.5	112.3	122.5	132.7	136.1
90.2	10°	98.7	100.4	100.4	98.7	98.7	102.1	108.9	122.5	136.1	141.2
81.7	12.5°	91.9	95.3	93.6	93.6	93.6	97.0	105.5	120.8	139.5	146.3
73.2	15°	85.1	90.2	90.2	88.5	88.5	90.2	102.1	119.1	144.6	156.5
63.0	17.5°	78.3	83.4	85.1	81.7	81.7	85.1	97.0	119.1	148.0	168.4
51.0	20°	64.7	73.2	78.3	73.2	73.2	76.6	88.5	112.3	149.7	180.3
37.4	22.5°	51.0	59.5	66.4	64.7	64.7	66.4	81.7	107.2	151.4	200.8
22.1	25°	37.4	45.9	51.0	54.4	54.4	59.5	74.9	103.8	158.2	243.3
10.2	27.5°	22.1	32.3	39.1	42.5	44.2	51.0	69.8	100.4	170.1	304.5
0.0	30°	10.2	18.7	27.2	34.0	34.0	45.9	64.7	97.0	185.5	393.0
0.0	32.5°	0.0	8.5	13.6	23.8	25.5	37.4	59.5	93.6	207.6	478.1
0.0	35°	0.0	0.0	6.8	18.7	18.7	30.6	54.4	90.2	241.6	542.7
0.0	37.5°	0.0	0.0	0.0	13.6	15.3	27.2	52.7	88.5	248.4	547.8
0.0	40°	0.0	0.0	0.0	10.2	11.9	25.5	52.7	90.2	224.6	535.9
0.0	42.5°	0.0	0.0	0.0	6.8	8.5	25.5	52.7	93.6	202.5	549.6
0.0	45°	0.0	0.0	0.0	5.1	6.8	27.2	51.0	91.9	190.6	621.0
0.0	47.5°	0.0	0.0	0.0	6.8	10.2	27.2	49.3	90.2	192.3	857.5
0.0	50°	0.0	0.0	0.0	8.5	11.9	27.2	51.0	86.8	211.0	1318.6
0.0	52.5°	0.0	0.0	0.0	6.8	10.2	30.6	56.1	85.1	229.7	1715.0
0.0	55°	0.0	0.0	0.0	1.7	5.1	39.1	61.3	85.1	258.6	1813.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	44.2	69.8	90.2	306.3	1774.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	44.2	71.5	90.2	309.7	1740.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	44.2	78.3	100.4	333.5	1550.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	37.4	93.6	125.9	347.1	1218.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	30.6	110.6	137.8	357.3	969.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	28.9	114.0	139.5	362.4	772.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	30.6	112.3	149.7	379.4	627.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	34.0	102.1	165.0	379.4	556.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	35.7	95.3	185.5	345.4	481.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	34.0	93.6	216.1	308.0	396.4
0.0	80°	3.4	5.1	5.1	3.4	3.4	28.9	91.9	219.5	262.0	272.2
1.7	82.5°	10.2	13.6	11.9	8.5	8.5	25.5	81.7	183.8	136.1	117.4
10.2	85°	18.7	22.1	22.1	18.7	18.7	23.8	51.0	66.4	45.9	37.4
18.7	87.5°	25.5	28.9	28.9	25.5	25.5	23.8	22.1	20.4	18.7	18.7
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: SP1-2407-184-14

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-930-U-5WQ

Data in this report applies to families of products including GSS-SB1A-930-U-5WQ

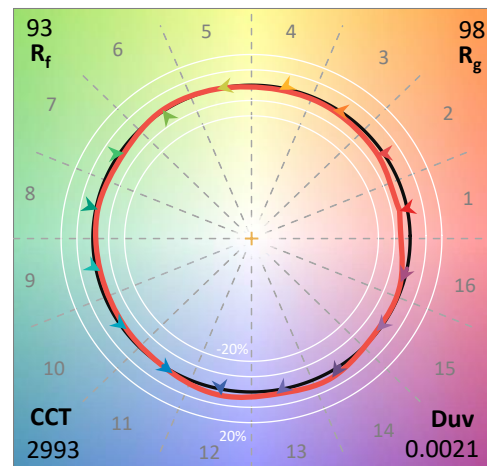
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-14
 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-930-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2993
 CIE u' : 0.2501
 CIE v' : 0.5245
 Duv: 0.0021
 CIE x: 0.4406
 CIE y: 0.4107
 CIE z: 0.1487
 Peak Wavelength (nm): 621
 Dominant Wavelength (nm): 582
 Purity: 55.53327
 R_f: 92.6
 R_g: 98.5

CRI (Ra): 92.4
 R1: 92.2
 R2: 95.2
 R3: 97.0
 R4: 93.1
 R5: 91.7
 R6: 94.2
 R7: 93.3
 R8: 82.3
 R9: 58.2
 R10: 87.7
 R11: 93.5
 R12: 81.7
 R13: 92.9
 R14: 97.6
 R15: 88.1



Test Conditions

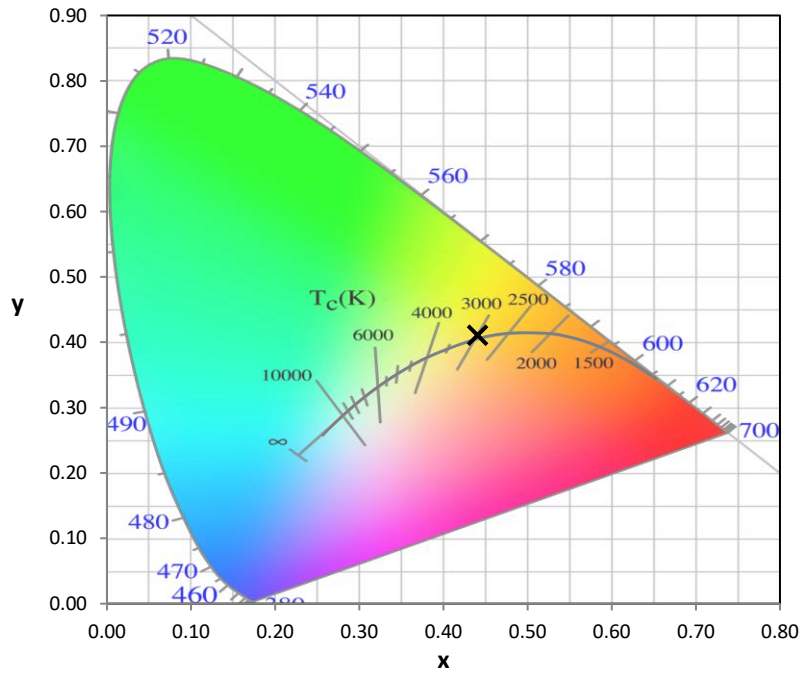
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

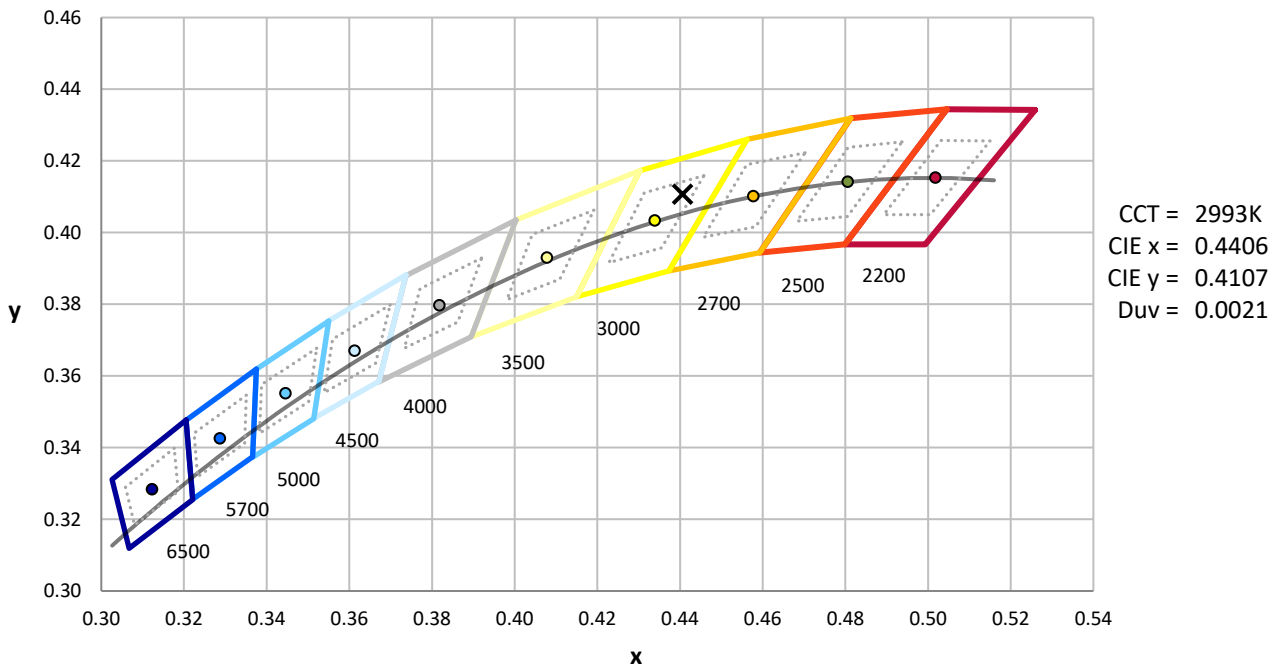
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-14

CIE 1931 Chromaticity Diagram



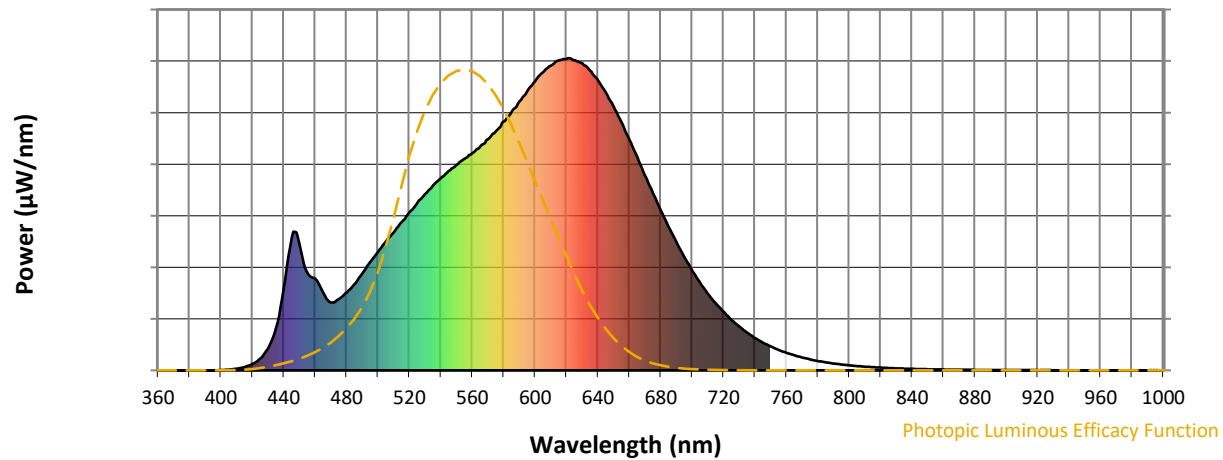
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

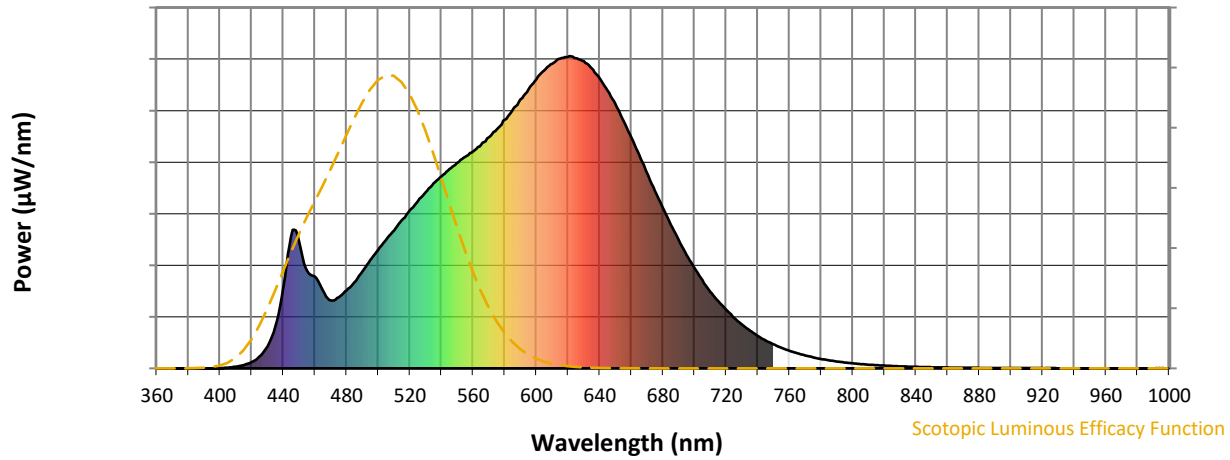


Photopic Lumens: NR

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

Scotopic Flux vs. Wavelength



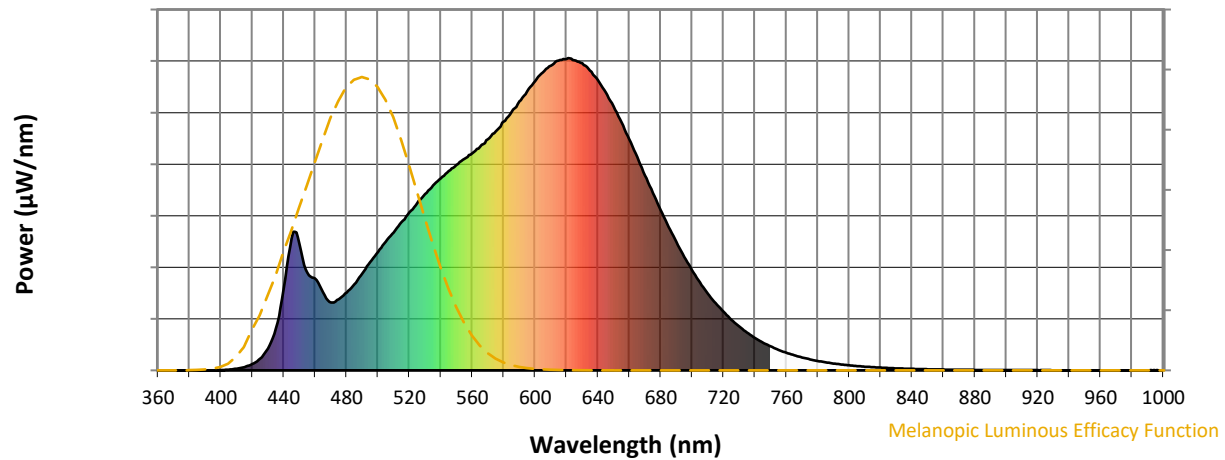
Scotopic Lumens: NR

S/P: 1.39

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.69

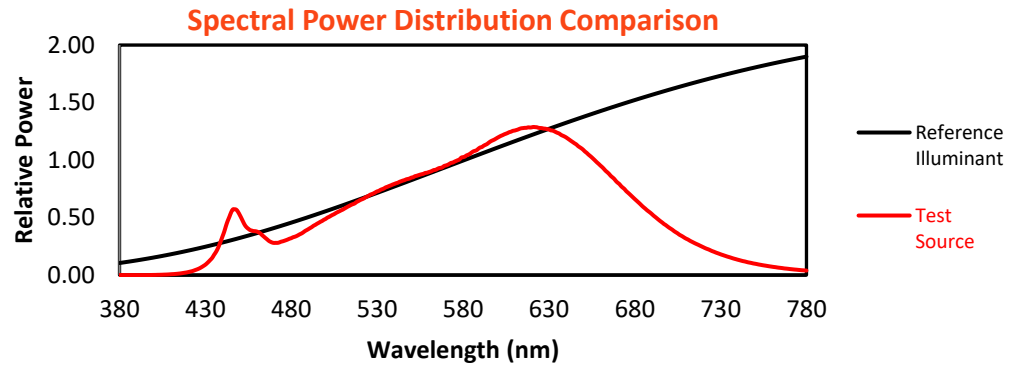
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

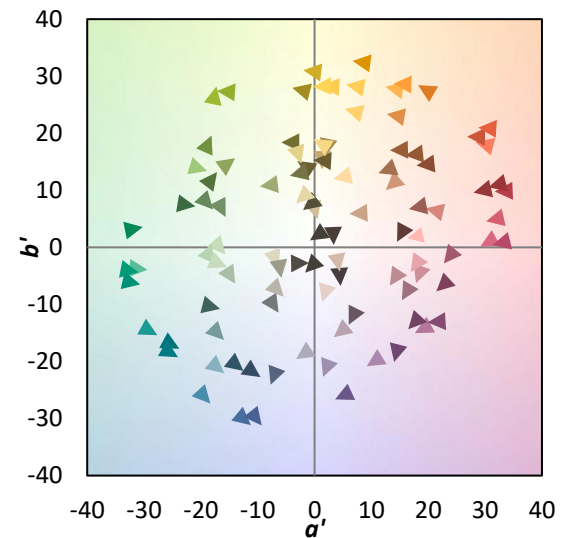
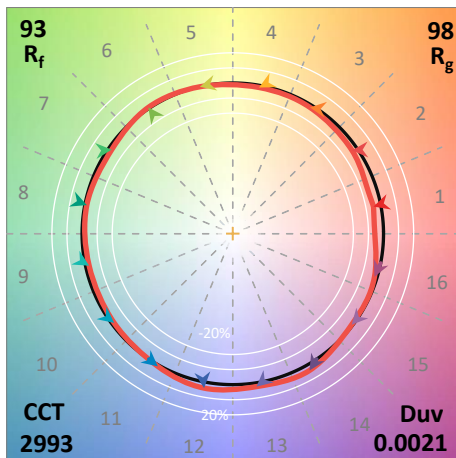
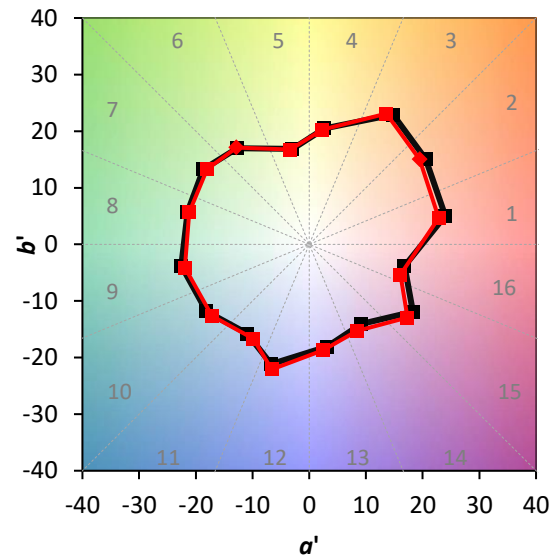
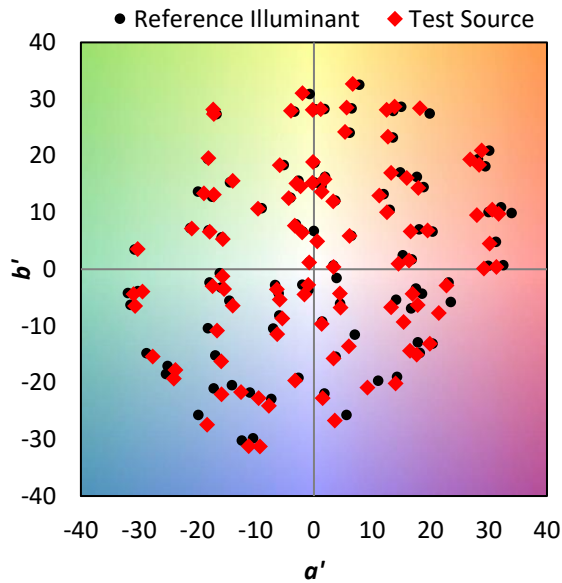
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98.5$
 $CIE R_a = 92.4$
 $R_9 = 58.2$

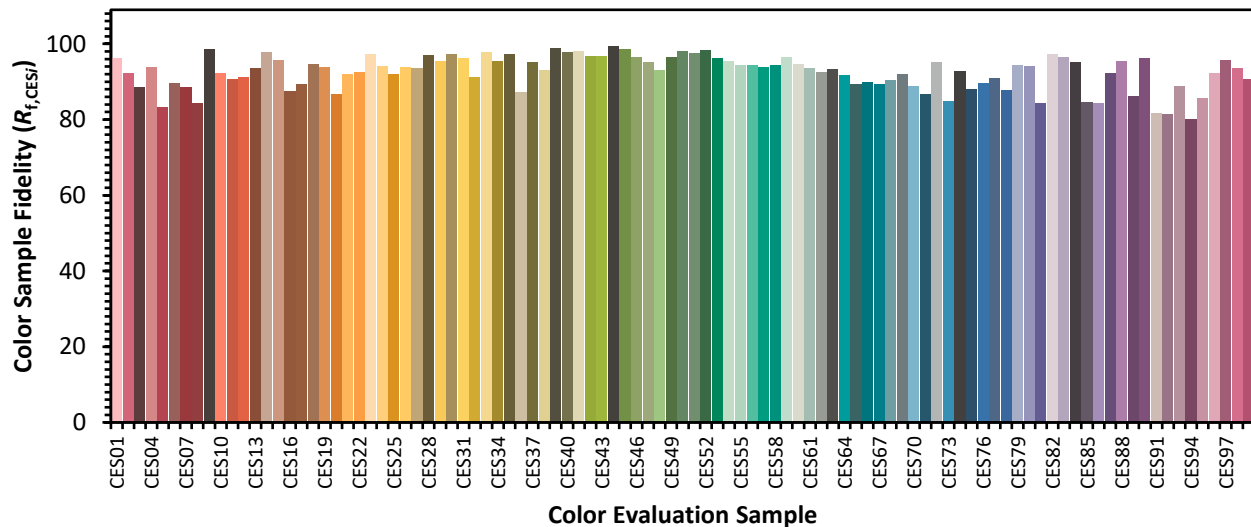


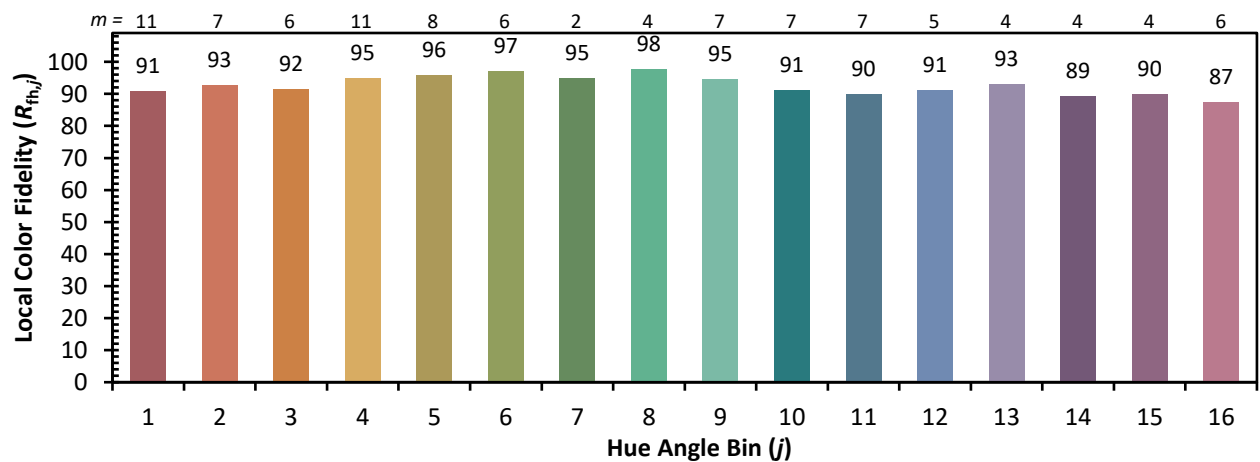
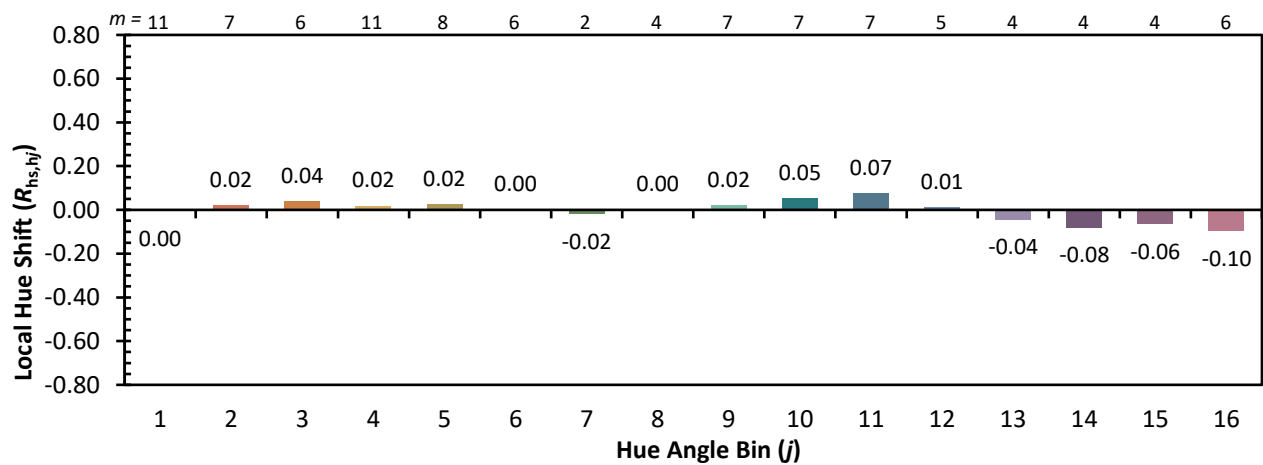
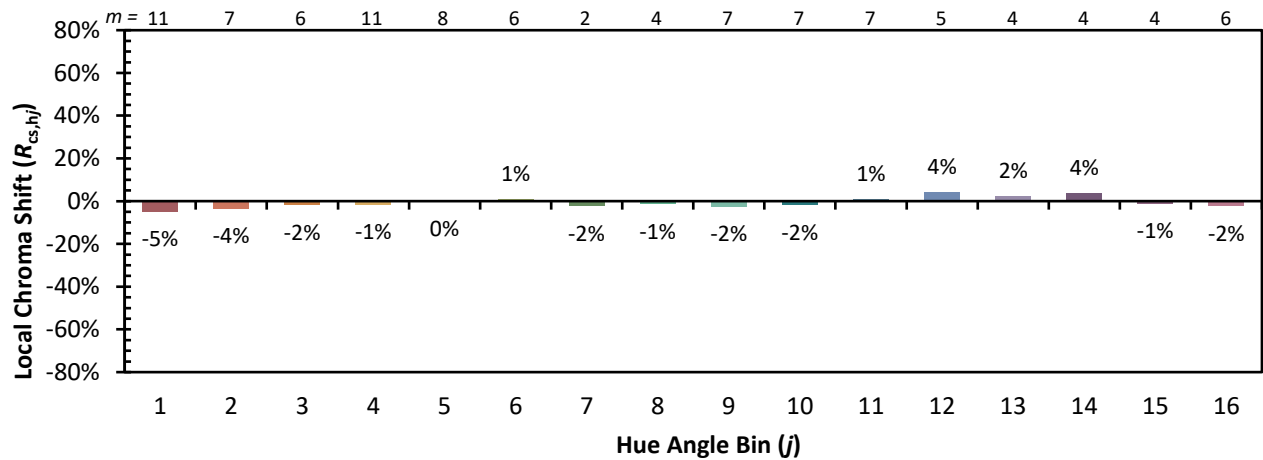
Color Vector Graphics



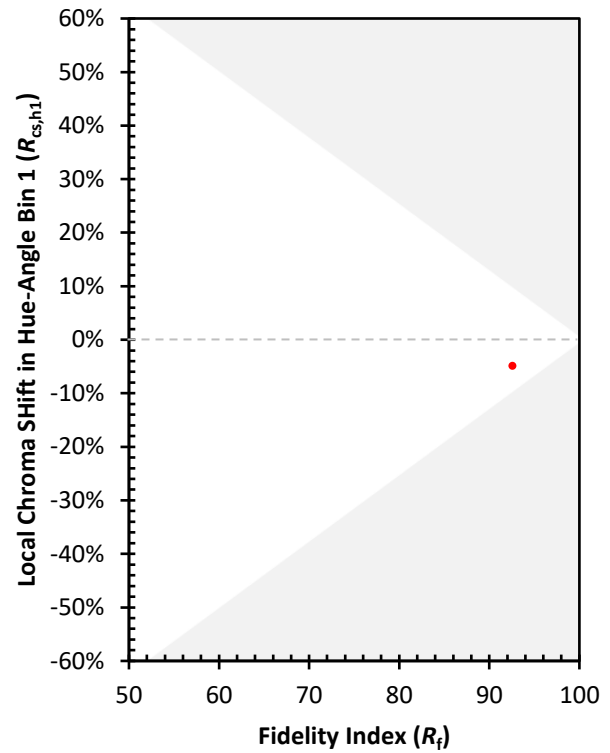
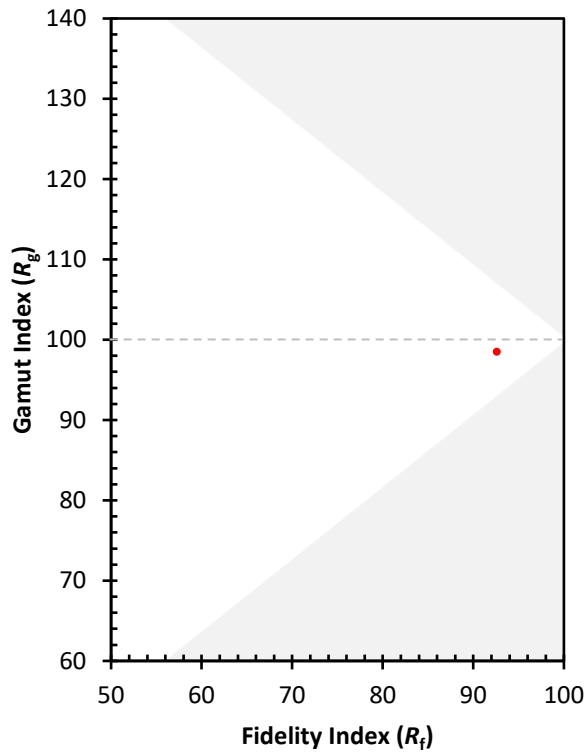
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 42	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 96	CES59 = 97	CES84 = 95
CES10 = 76	CES35 = 97	CES60 = 95	CES85 = 85
CES11 = 59	CES36 = 87	CES61 = 94	CES86 = 84
CES12 = 65	CES37 = 95	CES62 = 92	CES87 = 92
CES13 = 44	CES38 = 93	CES63 = 93	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 86
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 90	CES91 = 82
CES17 = 50	CES42 = 97	CES67 = 89	CES92 = 81
CES18 = 57	CES43 = 97	CES68 = 90	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 92	CES94 = 80
CES20 = 67	CES45 = 99	CES70 = 89	CES95 = 86
CES21 = 86	CES46 = 96	CES71 = 87	CES96 = 92
CES22 = 79	CES47 = 95	CES72 = 95	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 97	CES74 = 93	CES99 = 91
CES25 = 72	CES50 = 98	CES75 = 88	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)