

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: P1049737

Luminaire Tested: **GALN-SA7A-827-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049737
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 7xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19534.5 lumens
Efficiency: N/A
Efficacy: 101.2 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

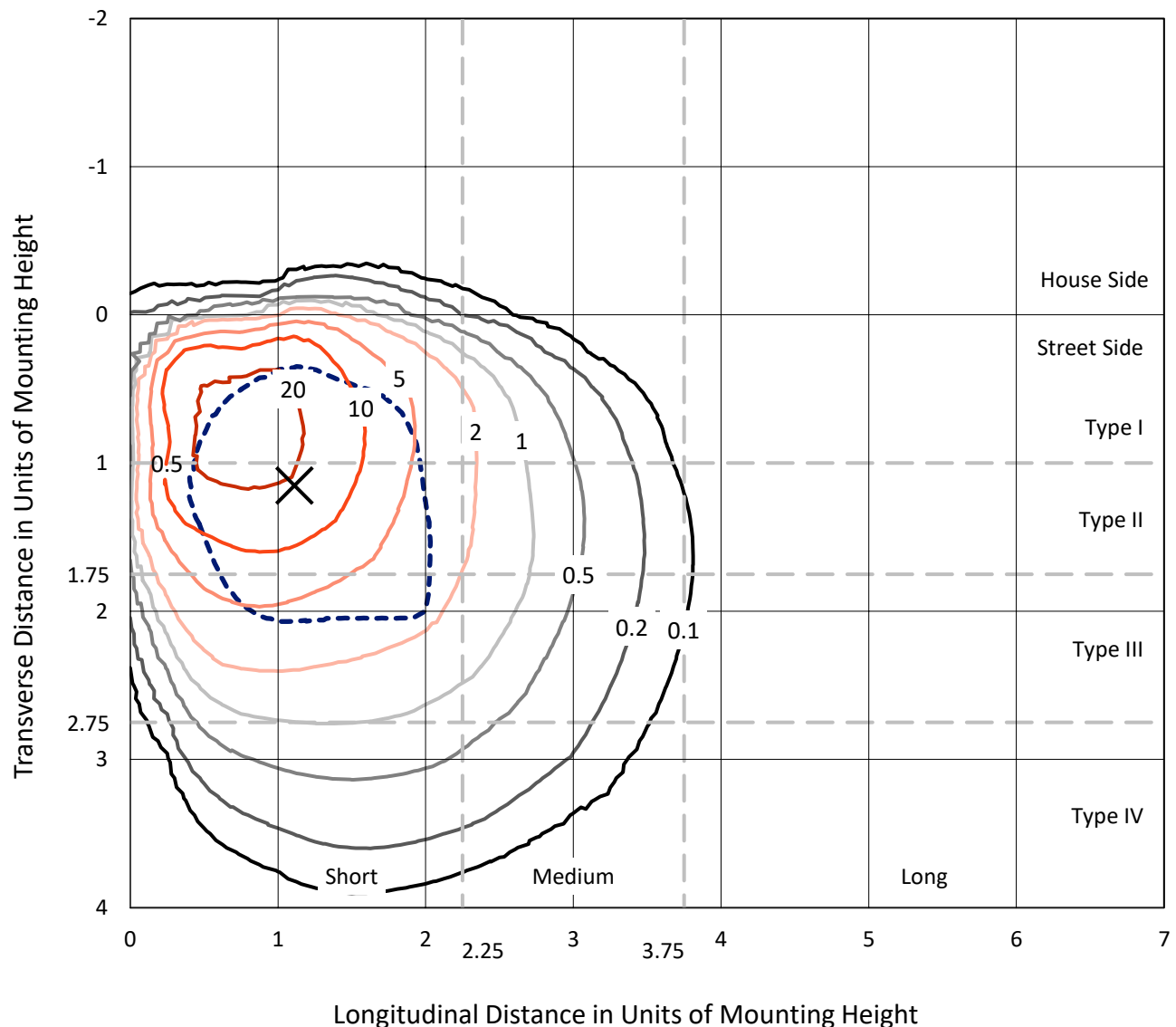
Input Watts (W): 193.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

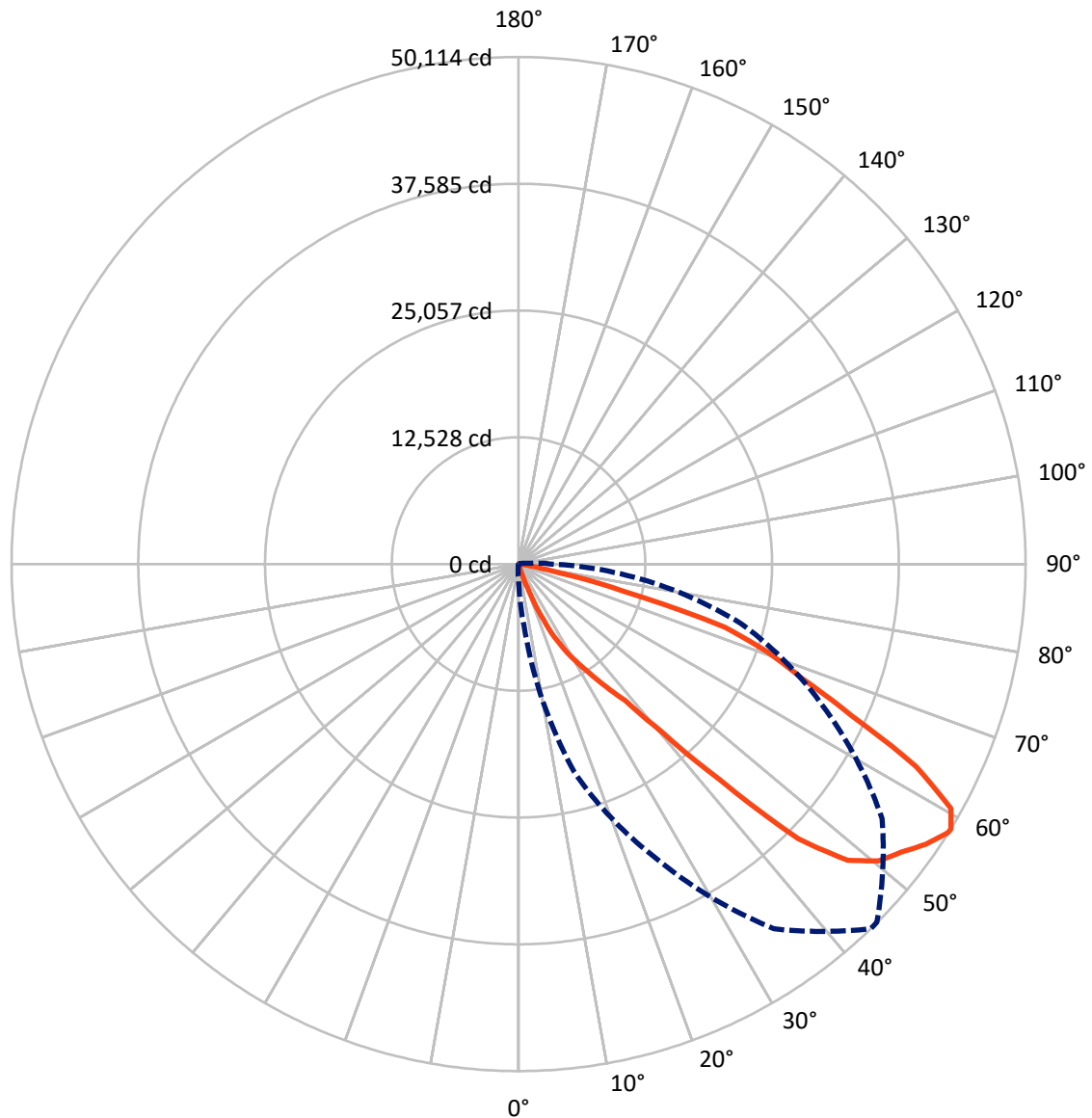


Based on 20 foot mounting height. Maximum calculated value = 34 fc
 Type III - Short - N/A

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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	133.4	0.0	133.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	19401.1	0.0	19401.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	19534.5	0.0	19534.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.0
10°-20°	42.8	0.2
20°-30°	462.8	2.4
30°-40°	1368.6	7.0
40°-50°	4079.1	20.9
50°-60°	6472.6	33.1
60°-70°	5398.9	27.6
70°-80°	1665.1	8.5
80°-90°	37.0	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°	19534.5	100.0
0°-180°	19534.5	100.0



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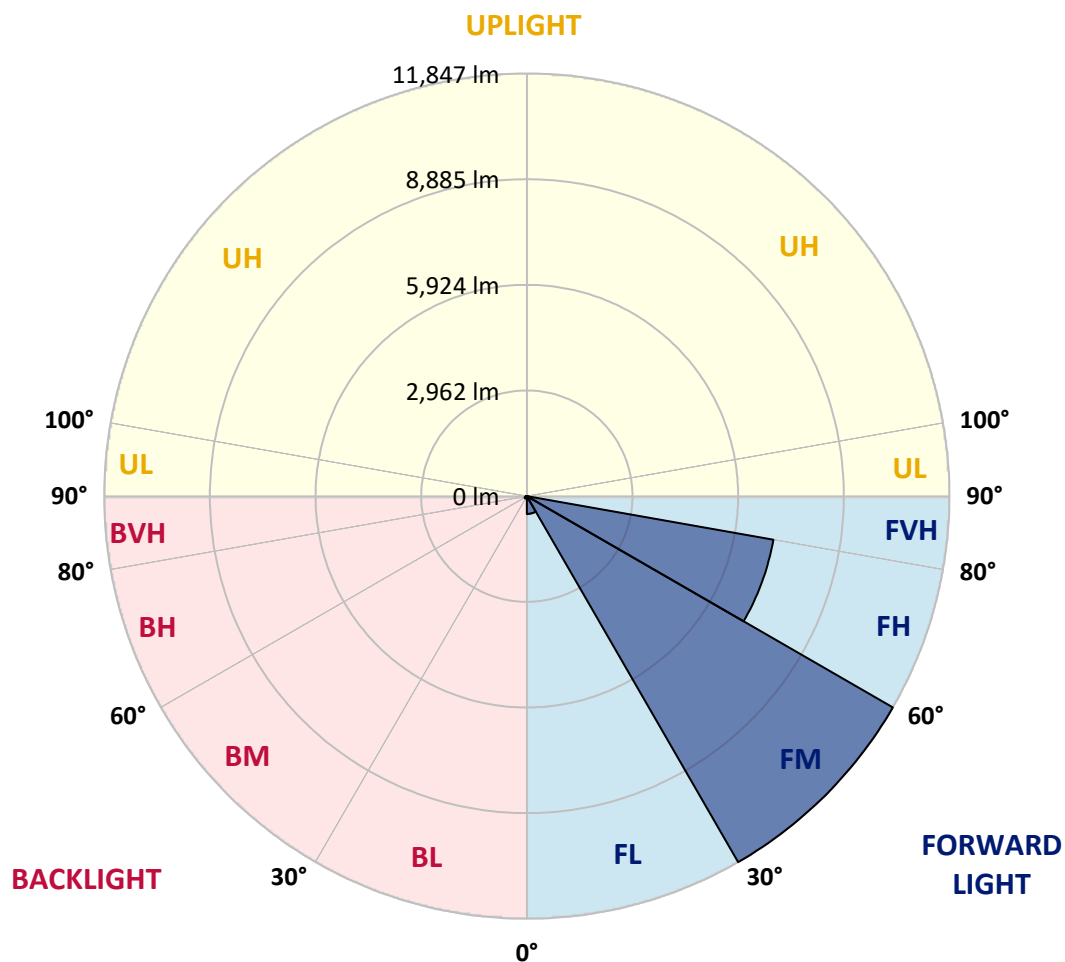
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	500.2	2.6			
FM	(30°-60°)	11847.2	60.6			
FH	(60°-80°)	7018.4	35.9			G3/7500
FVH	(80°-90°)	35.2	0.2			G1/100
BL	(0°-30°)	13.0	0.1	B0/110		
BM	(30°-60°)	73.0	0.4	B0/220		
BH	(60°-80°)	45.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.8	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°	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
2.5°	110.7	110.7	106.2	100.3	94.4	88.5	87.1	84.1	82.6	81.2
5°	115.1	115.1	113.6	109.2	103.3	98.9	98.9	94.4	91.5	88.5
7.5°	118.1	119.5	122.5	121.0	118.1	113.6	113.6	110.7	106.2	98.9
10°	122.5	126.9	132.8	135.8	137.2	137.2	135.8	134.3	126.9	116.6
12.5°	126.9	135.8	150.5	165.3	174.1	185.9	184.5	181.5	162.3	140.2
15°	135.8	149.0	180.0	222.8	289.2	330.5	346.8	332.0	268.6	188.9
17.5°	146.1	168.2	261.2	466.3	764.4	906.1	991.6	922.3	610.9	358.6
20°	156.4	205.1	485.5	1208.6	1983.3	2446.6	2575.0	2374.3	1524.4	683.2
22.5°	174.1	287.8	984.3	2498.3	4273.5	4968.6	5099.9	4458.0	2879.0	1348.8
25°	211.0	417.6	1697.0	4071.3	6377.8	7551.0	7496.4	6655.2	4670.5	2154.5
27.5°	264.1	608.0	2566.2	5784.6	8393.6	9428.0	9552.0	8511.6	6225.8	3168.2
30°	340.9	842.6	3498.8	7157.0	10009.4	11128.0	11148.6	10072.9	7617.4	4058.1
32.5°	414.7	1064.0	4314.8	8483.6	11601.7	12827.9	12919.4	11595.7	8656.2	4984.8
35°	470.7	1208.6	5141.2	9649.4	13207.2	14896.8	14890.9	13319.3	9886.9	5812.6
37.5°	475.2	1353.2	5889.4	10841.7	15240.6	17132.4	17319.8	15587.4	11374.4	6836.7
40°	464.8	1515.5	6836.7	12701.0	18904.7	21807.3	21972.6	19788.6	14358.2	8589.8
42.5°	476.6	1797.4	8374.4	16134.9	24988.9	29157.6	29476.3	27180.2	19843.2	12166.8
45°	538.6	2327.1	11595.7	21879.6	33661.3	38743.5	38637.2	35330.3	26225.5	17612.0
47.5°	743.7	3624.2	16371.0	27470.9	39203.9	43729.8	43821.2	39779.4	29950.0	21798.5
50°	1143.6	5545.5	20383.3	30426.7	41587.1	46127.7	46042.1	41371.6	31365.2	23860.0
52.5°	1487.5	6935.6	22396.1	31464.1	41892.6	47312.7	47306.8	41790.7	31585.1	24037.0
55°	1573.1	7040.4	22412.3	31520.1	42577.3	48863.6	49058.4	42822.2	31869.9	23263.8
57.5°	1539.1	6233.2	21476.8	31844.8	43796.2	50063.3	50073.6	43821.2	32592.9	22790.1
58°	1509.6	6106.3	21287.9	32029.2	44005.7	50113.5	50088.4	43867.0	33181.7	22772.4
60°	1344.3	5302.1	20551.5	32500.0	43694.3	49083.5	48848.8	42868.0	33094.7	22590.9
62.5°	1056.6	4136.3	19827.0	31955.4	40356.4	44097.2	44194.6	37952.5	30169.9	21532.9
65°	841.1	3082.7	18315.9	28030.2	33231.9	36212.7	36575.7	30862.0	25182.2	18233.3
67.5°	670.0	2228.2	15364.6	22316.4	26296.3	30223.0	30487.2	25911.1	19509.7	13970.1
70°	544.5	1506.7	10605.6	16320.8	21689.3	26104.5	26120.7	21525.5	14561.8	9153.5
72.5°	482.5	1043.3	6156.5	11902.7	17586.9	21271.7	20842.2	17467.4	11191.4	5421.6
75°	417.6	692.1	3019.2	7276.5	10663.1	10735.4	10899.2	8102.9	5594.2	2578.0
77.5°	343.8	491.4	1189.4	1987.7	3197.8	4093.5	4245.5	3216.9	1860.8	634.5
80°	236.1	233.2	320.2	609.4	914.9	1146.6	1069.9	827.8	487.0	243.5
82.5°	101.8	110.7	144.6	174.1	141.7	137.2	131.3	84.1	64.9	50.2
85°	32.5	29.5	31.0	31.0	25.1	19.2	19.2	8.9	0.0	0.0
87.5°	16.2	13.3	13.3	11.8	7.4	3.0	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°
85.6	0°	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
79.7	2.5°	78.2	78.2	75.3	72.3	70.8	67.9	66.4	64.9	63.5	62.0
85.6	5°	82.6	81.2	76.7	72.3	67.9	63.5	60.5	57.6	54.6	53.1
94.4	7.5°	90.0	87.1	78.2	70.8	64.9	59.0	56.1	51.6	48.7	44.3
104.8	10°	98.9	93.0	81.2	72.3	63.5	56.1	51.6	47.2	42.8	36.9
119.5	12.5°	110.7	100.3	85.6	70.8	60.5	51.6	47.2	41.3	36.9	32.5
138.7	15°	121.0	107.7	87.1	70.8	57.6	47.2	41.3	35.4	31.0	25.1
174.1	17.5°	135.8	113.6	85.6	66.4	53.1	41.3	35.4	31.0	23.6	14.8
258.2	20°	160.8	118.1	82.6	62.0	45.7	33.9	26.6	20.7	10.3	3.0
388.1	22.5°	200.7	129.9	79.7	56.1	39.8	26.6	17.7	7.4	0.0	0.0
590.3	25°	277.4	150.5	79.7	53.1	35.4	19.2	5.9	0.0	0.0	0.0
838.2	27.5°	368.9	178.6	79.7	45.7	28.0	10.3	0.0	0.0	0.0	0.0
1142.2	30°	461.9	209.5	79.7	39.8	22.1	1.5	0.0	0.0	0.0	0.0
1406.3	32.5°	550.4	236.1	81.2	33.9	14.8	0.0	0.0	0.0	0.0	0.0
1772.3	35°	640.4	240.5	79.7	29.5	8.9	0.0	0.0	0.0	0.0	0.0
2220.9	37.5°	755.5	231.7	75.3	26.6	4.4	0.0	0.0	0.0	0.0	0.0
2921.8	40°	929.7	236.1	70.8	25.1	1.5	0.0	0.0	0.0	0.0	0.0
4171.7	42.5°	1251.4	255.3	64.9	25.1	0.0	0.0	0.0	0.0	0.0	0.0
6644.9	45°	2163.3	342.4	59.0	26.6	0.0	0.0	0.0	0.0	0.0	0.0
9975.5	47.5°	3578.5	615.4	57.6	26.6	0.0	0.0	0.0	0.0	0.0	0.0
12016.3	50°	4567.2	774.7	60.5	28.0	0.0	0.0	0.0	0.0	0.0	0.0
12271.6	52.5°	4559.8	863.3	63.5	29.5	5.9	0.0	0.0	0.0	0.0	0.0
11310.9	55°	4053.6	879.5	67.9	32.5	19.2	0.0	0.0	0.0	0.0	0.0
9720.2	57.5°	3388.1	802.8	78.2	39.8	35.4	0.0	0.0	0.0	0.0	0.0
9470.8	58°	3270.1	767.3	81.2	41.3	38.4	0.0	0.0	0.0	0.0	0.0
8215.0	60°	2679.8	625.7	103.3	51.6	51.6	0.0	0.0	0.0	0.0	0.0
6734.9	62.5°	1850.5	546.0	118.1	66.4	53.1	0.0	0.0	0.0	0.0	0.0
4965.6	65°	1308.9	492.9	128.4	70.8	42.8	0.0	0.0	0.0	0.0	0.0
3528.3	67.5°	978.4	454.5	141.7	72.3	22.1	0.0	0.0	0.0	0.0	0.0
2213.5	70°	749.6	426.5	174.1	76.7	5.9	0.0	0.0	0.0	0.0	0.0
1319.2	72.5°	610.9	394.0	211.0	79.7	0.0	0.0	0.0	0.0	0.0	0.0
791.0	75°	506.2	355.6	203.6	87.1	0.0	0.0	0.0	0.0	0.0	0.0
422.0	77.5°	336.5	275.9	185.9	87.1	0.0	0.0	0.0	0.0	0.0	0.0
150.5	80°	118.1	109.2	144.6	76.7	0.0	0.0	0.0	0.0	0.0	0.0
31.0	82.5°	17.7	14.8	20.7	26.6	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°
85.6	0°	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
60.5	2.5°	60.5	60.5	59.0	60.5	60.5	63.5	70.8	81.2	93.0	97.4
51.6	5°	50.2	48.7	47.2	47.2	47.2	51.6	57.6	69.4	82.6	88.5
42.8	7.5°	41.3	39.8	38.4	36.9	36.9	39.8	47.2	60.5	73.8	79.7
35.4	10°	33.9	31.0	29.5	28.0	28.0	31.0	38.4	51.6	66.4	72.3
29.5	12.5°	28.0	23.6	20.7	19.2	17.7	22.1	29.5	41.3	57.6	64.9
22.1	15°	19.2	14.8	10.3	8.9	7.4	11.8	19.2	32.5	48.7	57.6
11.8	17.5°	10.3	4.4	1.5	0.0	0.0	3.0	8.9	23.6	39.8	47.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	29.5	36.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	17.7	25.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	13.3
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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	4.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	11.8
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°
85.6	0°	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
101.8	2.5°	104.8	103.3	100.3	97.4	97.4	97.4	101.8	106.2	110.7	110.7
91.5	5°	97.4	97.4	95.9	93.0	93.0	94.4	100.3	107.7	113.6	115.1
84.1	7.5°	90.0	93.0	90.0	88.5	90.0	91.5	97.4	106.2	115.1	118.1
78.2	10°	85.6	87.1	87.1	85.6	85.6	88.5	94.4	106.2	118.1	122.5
70.8	12.5°	79.7	82.6	81.2	81.2	81.2	84.1	91.5	104.8	121.0	126.9
63.5	15°	73.8	78.2	78.2	76.7	76.7	78.2	88.5	103.3	125.4	135.8
54.6	17.5°	67.9	72.3	73.8	70.8	70.8	73.8	84.1	103.3	128.4	146.1
44.3	20°	56.1	63.5	67.9	63.5	63.5	66.4	76.7	97.4	129.9	156.4
32.5	22.5°	44.3	51.6	57.6	56.1	56.1	57.6	70.8	93.0	131.3	174.1
19.2	25°	32.5	39.8	44.3	47.2	47.2	51.6	64.9	90.0	137.2	211.0
8.9	27.5°	19.2	28.0	33.9	36.9	38.4	44.3	60.5	87.1	147.6	264.1
0.0	30°	8.9	16.2	23.6	29.5	29.5	39.8	56.1	84.1	160.8	340.9
0.0	32.5°	0.0	7.4	11.8	20.7	22.1	32.5	51.6	81.2	180.0	414.7
0.0	35°	0.0	0.0	5.9	16.2	16.2	26.6	47.2	78.2	209.5	470.7
0.0	37.5°	0.0	0.0	0.0	11.8	13.3	23.6	45.7	76.7	215.4	475.2
0.0	40°	0.0	0.0	0.0	8.9	10.3	22.1	45.7	78.2	194.8	464.8
0.0	42.5°	0.0	0.0	0.0	5.9	7.4	22.1	45.7	81.2	175.6	476.6
0.0	45°	0.0	0.0	0.0	4.4	5.9	23.6	44.3	79.7	165.3	538.6
0.0	47.5°	0.0	0.0	0.0	5.9	8.9	23.6	42.8	78.2	166.7	743.7
0.0	50°	0.0	0.0	0.0	7.4	10.3	23.6	44.3	75.3	183.0	1143.6
0.0	52.5°	0.0	0.0	0.0	5.9	8.9	26.6	48.7	73.8	199.2	1487.5
0.0	55°	0.0	0.0	0.0	1.5	4.4	33.9	53.1	73.8	224.3	1573.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	38.4	60.5	78.2	265.6	1539.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	38.4	62.0	78.2	268.6	1509.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	38.4	67.9	87.1	289.2	1344.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	32.5	81.2	109.2	301.0	1056.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	26.6	95.9	119.5	309.9	841.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	25.1	98.9	121.0	314.3	670.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	26.6	97.4	129.9	329.1	544.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	29.5	88.5	143.1	329.1	482.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	31.0	82.6	160.8	299.6	417.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	29.5	81.2	187.4	267.1	343.8
0.0	80°	3.0	4.4	4.4	3.0	3.0	25.1	79.7	190.4	227.3	236.1
1.5	82.5°	8.9	11.8	10.3	7.4	7.4	22.1	70.8	159.4	118.1	101.8
8.9	85°	16.2	19.2	19.2	16.2	16.2	20.7	44.3	57.6	39.8	32.5
16.2	87.5°	22.1	25.1	25.1	22.1	22.1	20.7	19.2	17.7	16.2	16.2
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

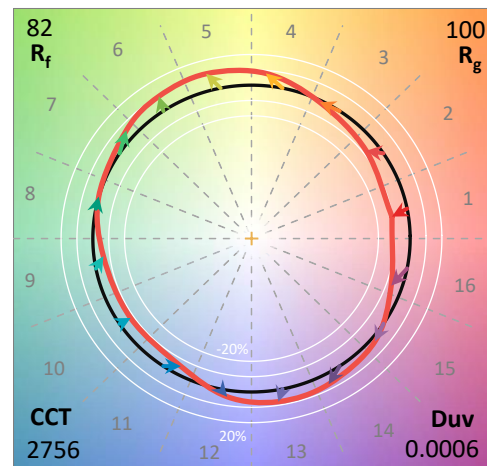
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

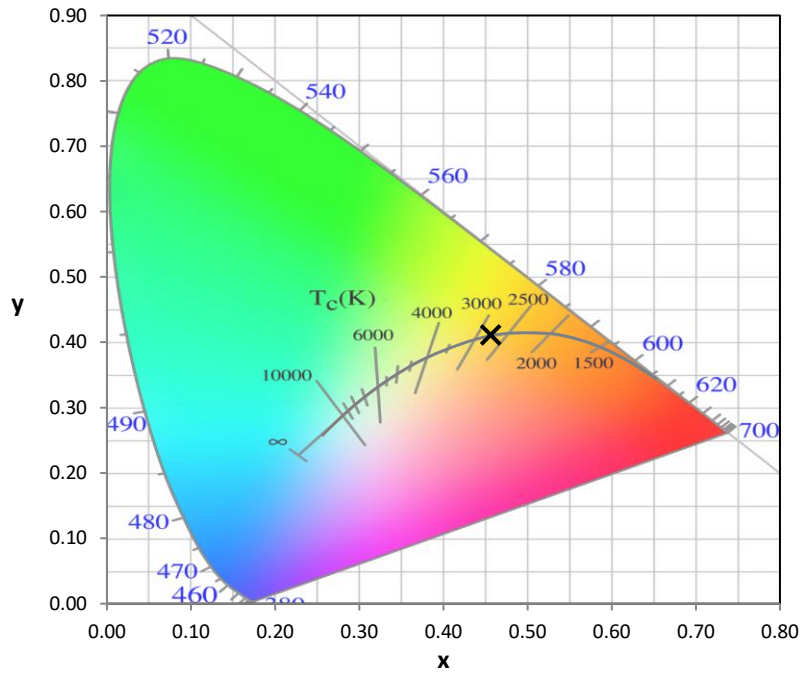
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

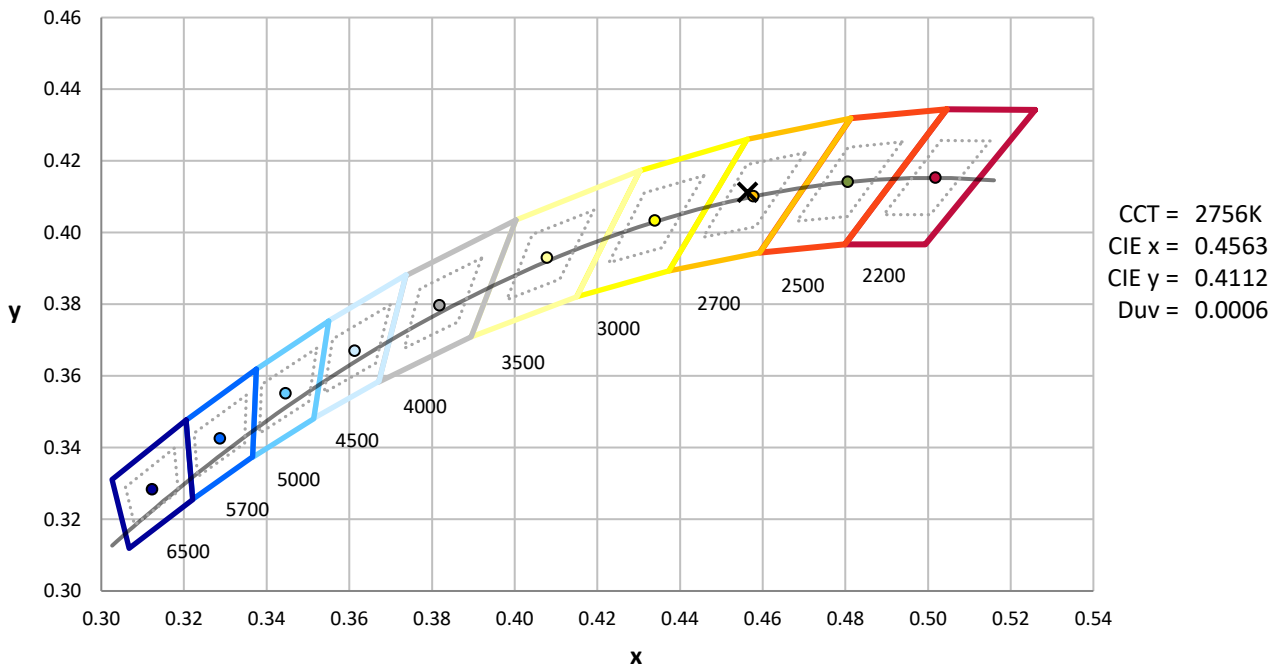
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



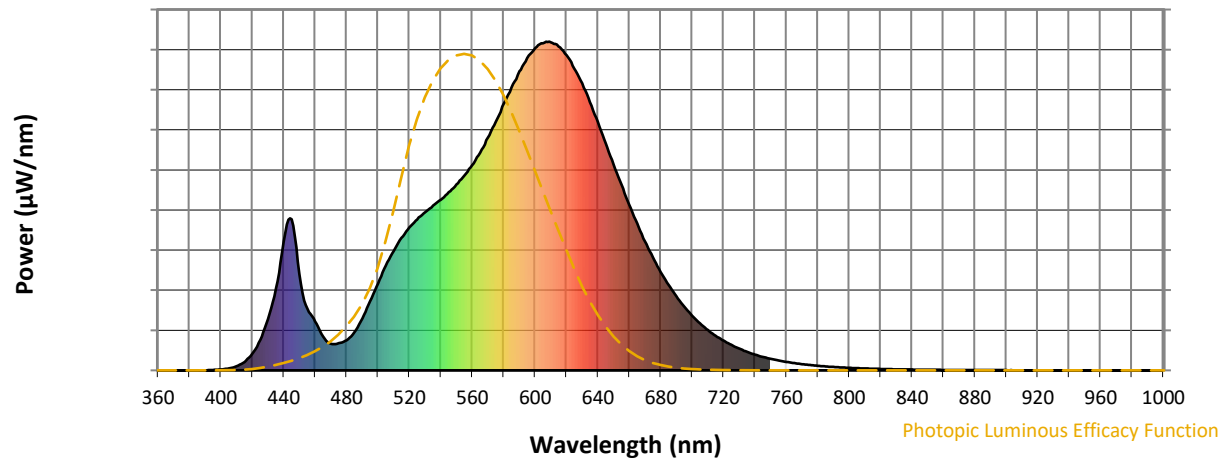
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

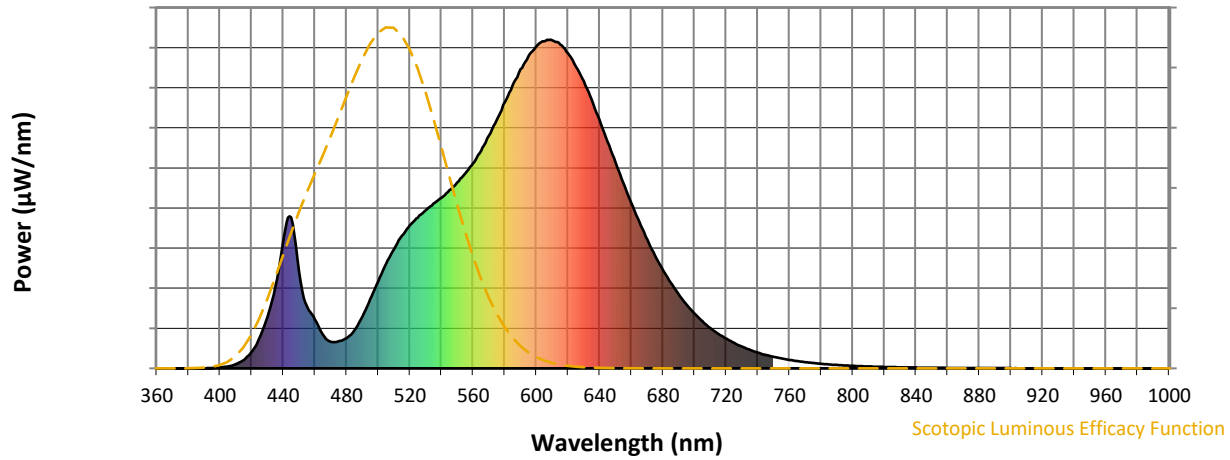


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength



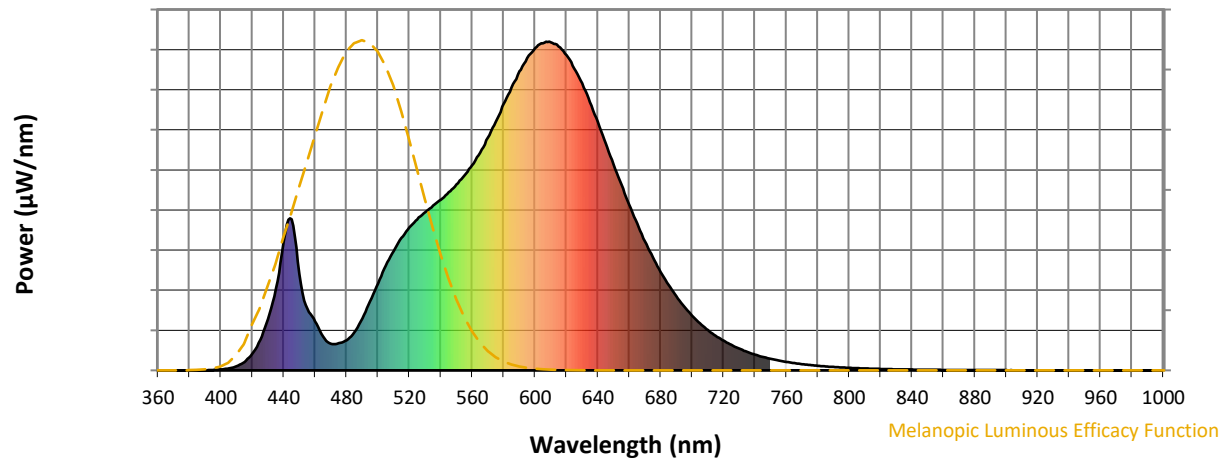
Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.16

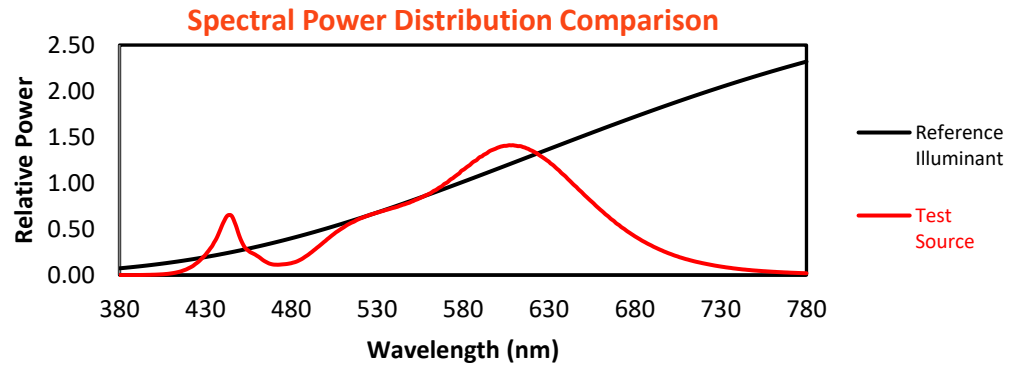
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

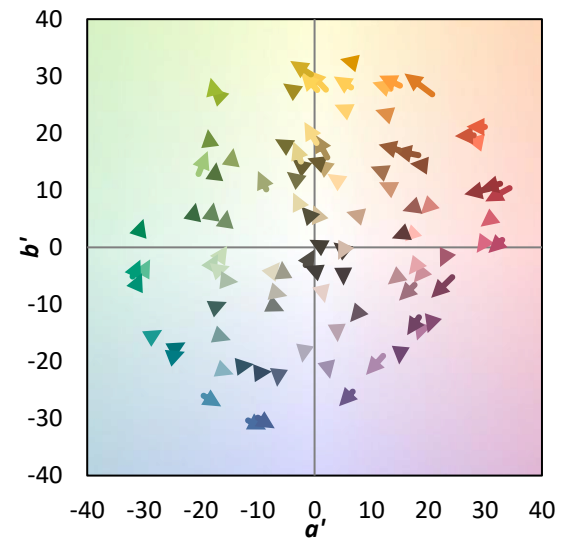
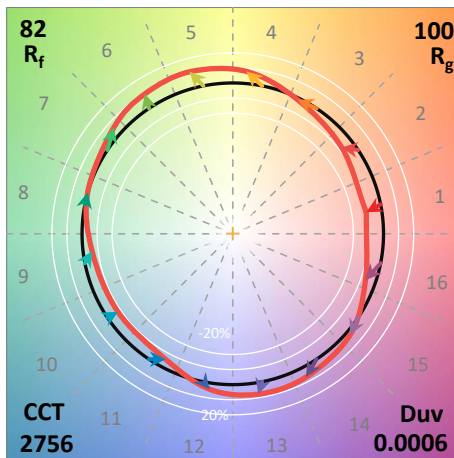
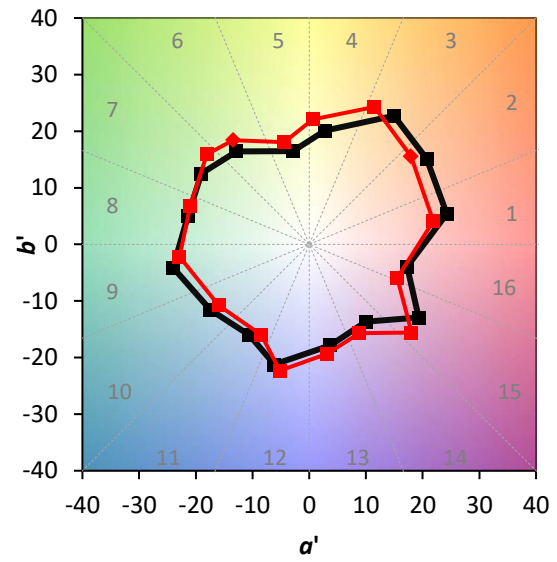
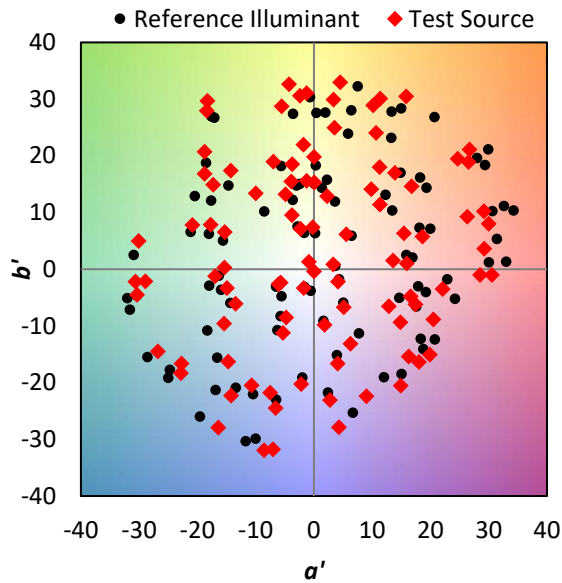
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

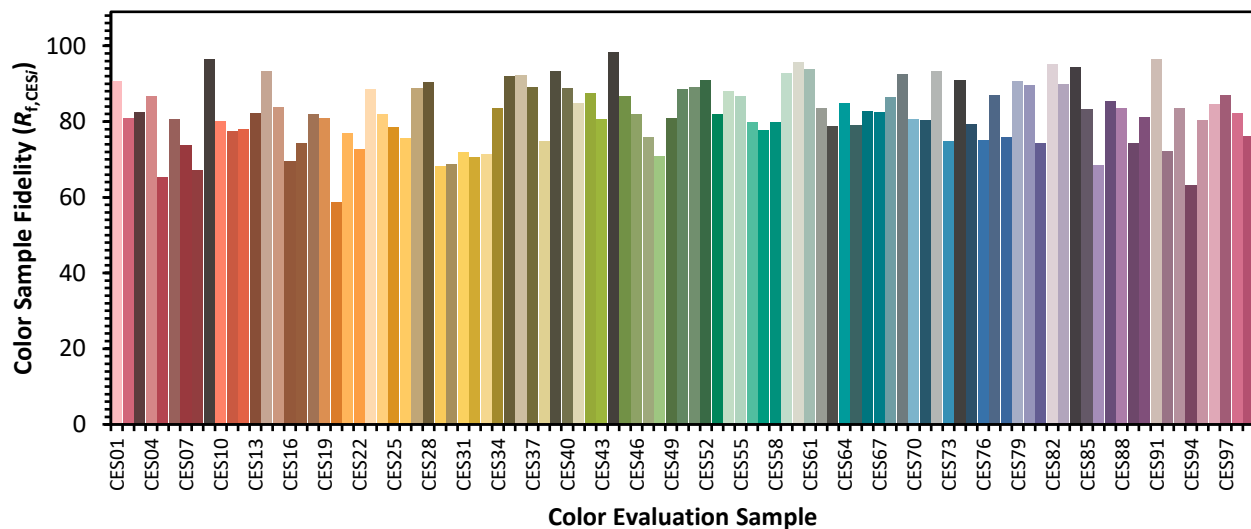


Color Vector Graphics

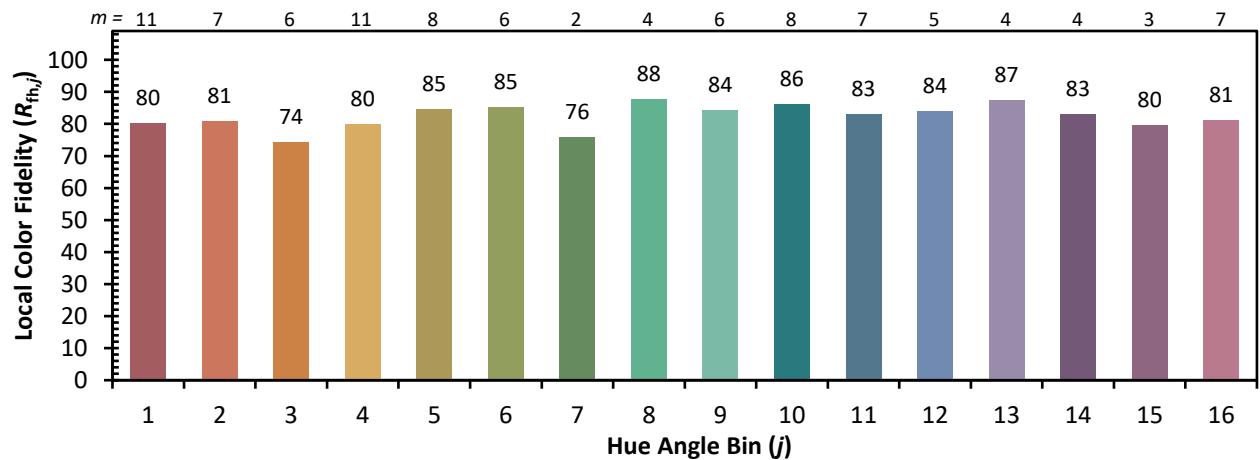
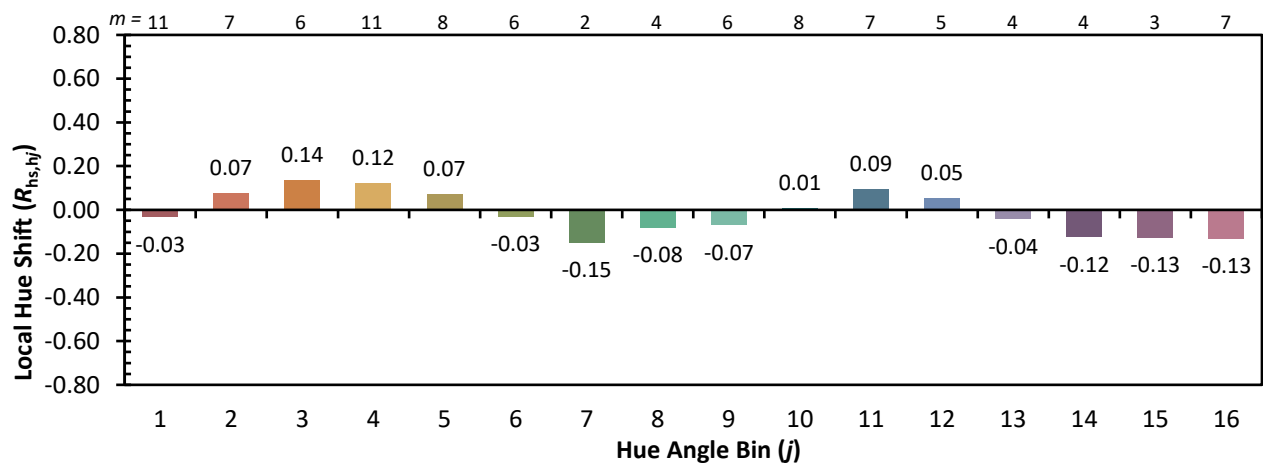
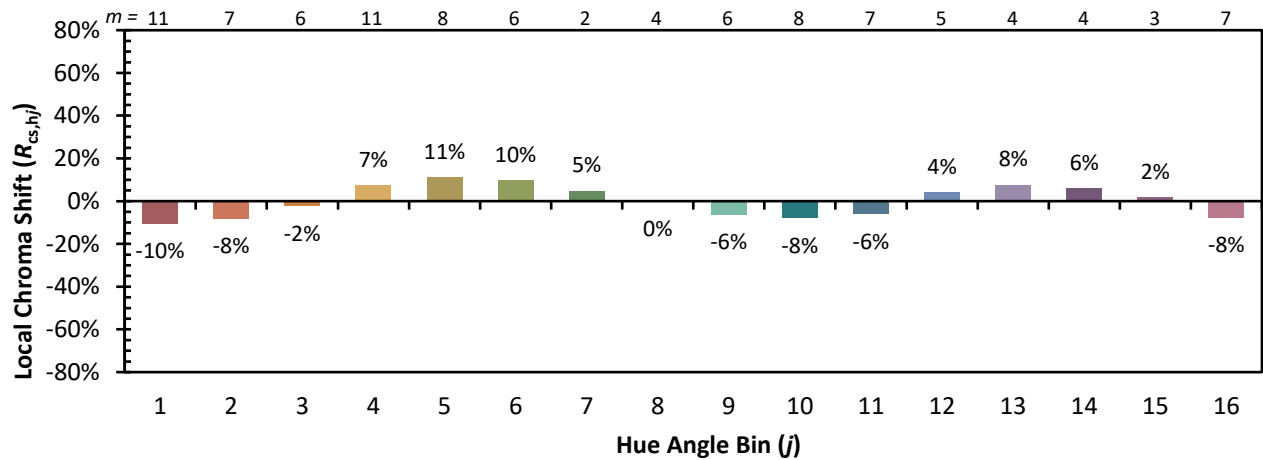


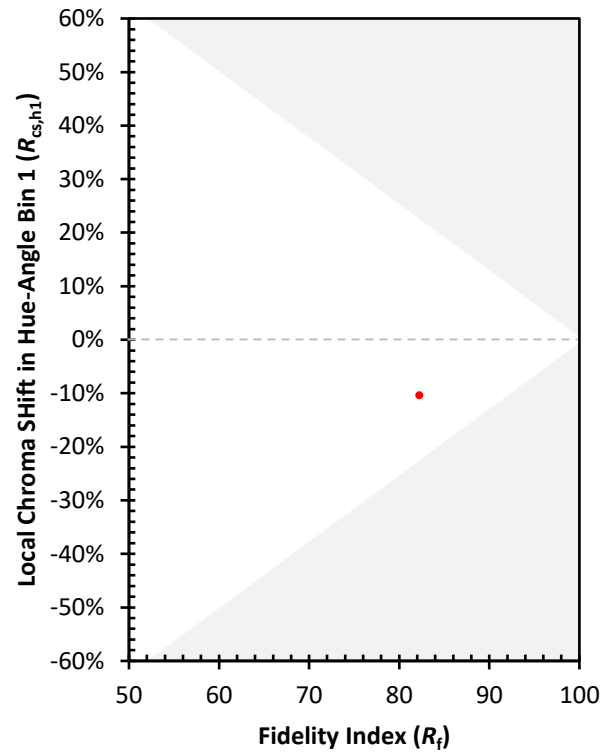
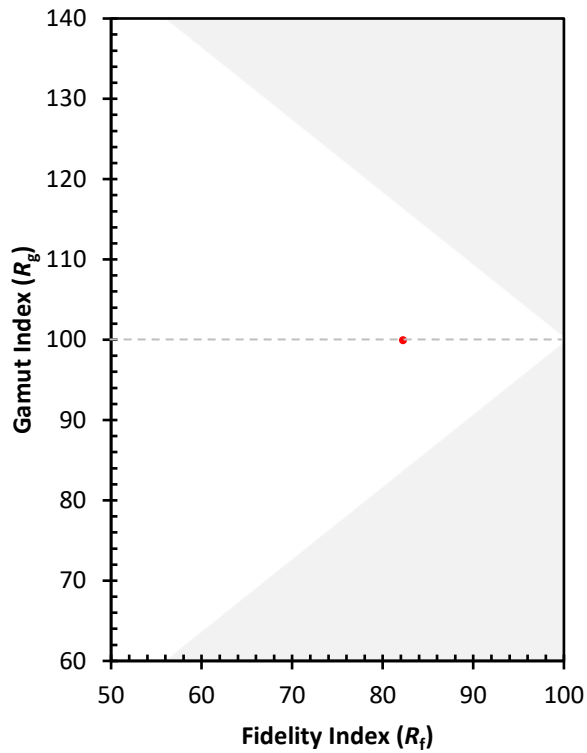
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)