

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: P1049922

Luminaire Tested: **GALN-SA8B-927-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049922
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 8xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20371.8 lumens
Efficiency: N/A
Efficacy: 72.0 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): 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

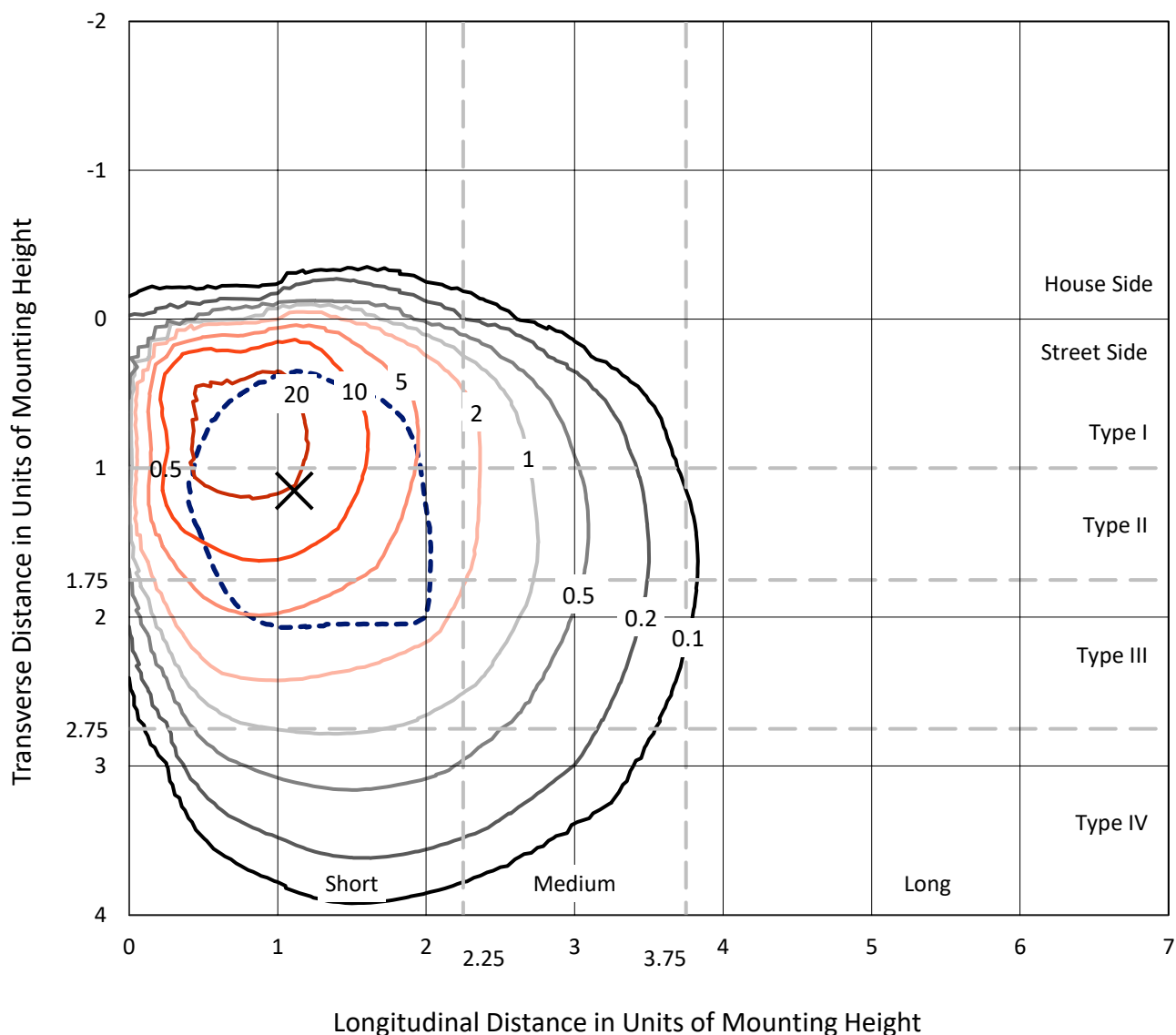
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

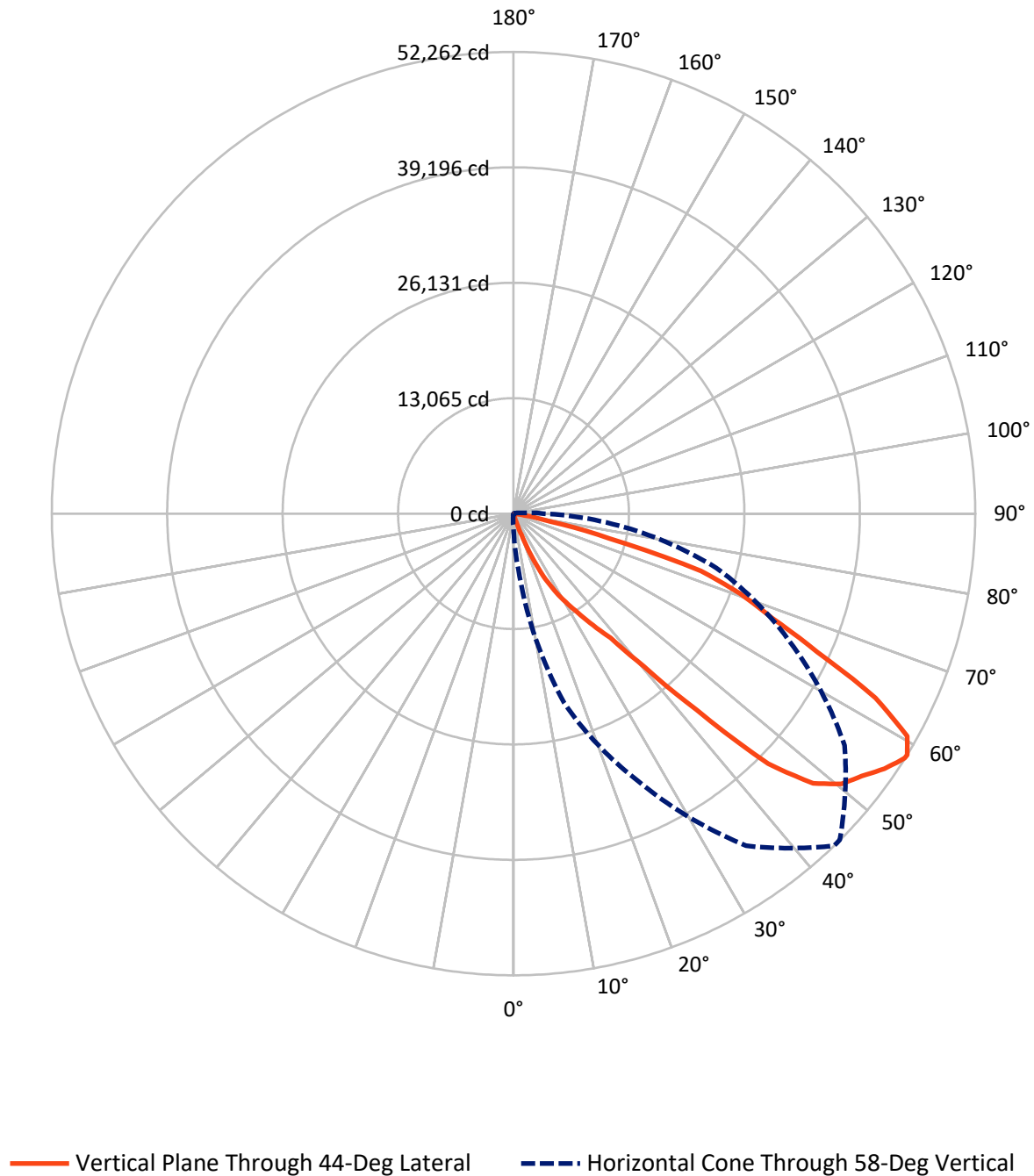


Based on 20 foot mounting height. Maximum calculated value = 35.5 fc

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	139.1	0.0	139.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	20232.7	0.0	20232.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	20371.8	0.0	20371.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	0.0
10°-20°	44.7	0.2
20°-30°	482.6	2.4
30°-40°	1427.2	7.0
40°-50°	4253.9	20.9
50°-60°	6750.0	33.1
60°-70°	5630.3	27.6
70°-80°	1736.5	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°	20371.8	100.0
0°-180°	20371.8	100.0



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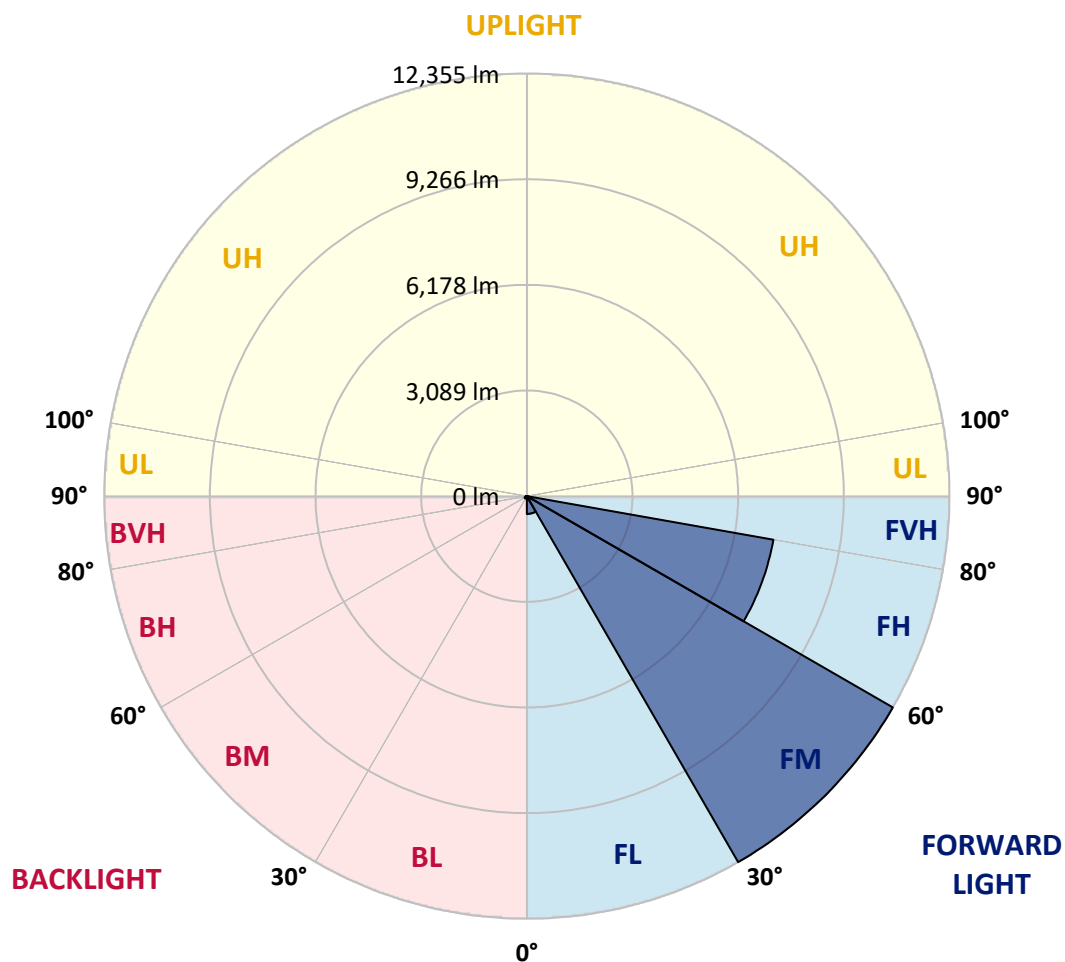
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	521.6	2.6			
FM	(30°-60°)	12355.0	60.6			
FH	(60°-80°)	7319.3	35.9			G3/7500
FVH	(80°-90°)	36.7	0.2			G1/100
BL	(0°-30°)	13.6	0.1	B0/110		
BM	(30°-60°)	76.1	0.4	B0/220		
BH	(60°-80°)	47.5	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°	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
2.5°	115.4	115.4	110.8	104.6	98.5	92.3	90.8	87.7	86.2	84.6
5°	120.0	120.0	118.5	113.9	107.7	103.1	103.1	98.5	95.4	92.3
7.5°	123.1	124.7	127.7	126.2	123.1	118.5	118.5	115.4	110.8	103.1
10°	127.7	132.3	138.5	141.6	143.1	143.1	141.6	140.0	132.3	121.6
12.5°	132.3	141.6	157.0	172.4	181.6	193.9	192.4	189.3	169.3	146.2
15°	141.6	155.4	187.7	232.4	301.6	344.7	361.6	346.3	280.1	197.0
17.5°	152.4	175.4	272.4	486.3	797.2	944.9	1034.1	961.8	637.1	374.0
20°	163.1	213.9	506.3	1260.4	2068.3	2551.5	2685.4	2476.1	1589.7	712.5
22.5°	181.6	300.1	1026.5	2605.4	4456.7	5181.5	5318.5	4649.1	3002.4	1406.6
25°	220.1	435.5	1769.8	4245.9	6651.2	7874.6	7817.7	6940.5	4870.7	2246.8
27.5°	275.5	634.0	2676.2	6032.5	8753.3	9832.1	9961.4	8876.5	6492.7	3304.0
30°	355.5	878.7	3648.8	7463.7	10438.4	11604.9	11626.5	10504.6	7943.9	4232.0
32.5°	432.4	1109.6	4499.8	8847.2	12098.9	13377.8	13473.2	12092.8	9027.3	5198.4
35°	490.9	1260.4	5361.6	10063.0	13773.3	15535.3	15529.2	13890.2	10310.7	6061.8
37.5°	495.5	1411.2	6141.8	11306.4	15893.9	17866.8	18062.2	16255.5	11861.9	7129.8
40°	484.8	1580.5	7129.8	13245.4	19715.0	22742.1	22914.4	20636.8	14973.6	8958.0
42.5°	497.1	1874.4	8733.3	16826.5	26060.0	30407.4	30739.8	28345.2	20693.8	12688.3
45°	561.7	2426.9	12092.8	22817.5	35104.2	40404.2	40293.4	36844.7	27349.6	18366.9
47.5°	775.6	3779.6	17072.7	28648.4	40884.3	45604.2	45699.6	41484.5	31233.8	22732.8
50°	1192.7	5783.2	21257.0	31730.9	43369.7	48104.9	48015.6	43145.0	32709.6	24882.7
52.5°	1551.2	7232.9	23356.1	32812.7	43688.2	49340.6	49334.5	43582.0	32938.9	25067.4
55°	1640.5	7342.2	23373.0	32871.2	44402.3	50958.0	51161.2	44657.7	33235.9	24261.0
57.5°	1605.1	6500.4	22397.3	33209.7	45673.4	52209.2	52219.9	45699.6	33990.0	23767.0
58°	1574.3	6368.0	22200.4	33402.1	45891.9	52261.5	52235.3	45747.3	34604.0	23748.5
60°	1401.9	5529.3	21432.4	33893.0	45567.2	51187.3	50942.6	44705.4	34513.2	23559.2
62.5°	1101.9	4313.6	20676.8	33325.2	42086.2	45987.3	46088.9	39579.3	31463.1	22455.8
65°	877.2	3214.8	19101.0	29231.7	34656.3	37764.9	38143.5	32184.8	26261.6	19014.8
67.5°	698.7	2323.8	16023.2	23273.0	27423.4	31518.5	31793.9	27021.8	20346.0	14568.9
70°	567.9	1571.2	11060.2	17020.4	22618.9	27223.4	27240.3	22448.1	15186.0	9545.9
72.5°	503.2	1088.0	6420.3	12412.9	18340.8	22183.4	21735.6	18216.1	11671.1	5654.0
75°	435.5	721.8	3148.6	7588.4	11120.2	11195.6	11366.4	8450.2	5834.0	2688.5
77.5°	358.6	512.5	1240.4	2072.9	3334.8	4268.9	4427.5	3354.8	1940.6	661.7
80°	246.2	243.1	333.9	635.6	954.1	1195.7	1115.7	863.3	507.8	253.9
82.5°	106.2	115.4	150.8	181.6	147.7	143.1	137.0	87.7	67.7	52.3
85°	33.9	30.8	32.3	32.3	26.2	20.0	20.0	9.2	0.0	0.0
87.5°	16.9	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°
89.3	0°	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
83.1	2.5°	81.6	81.6	78.5	75.4	73.9	70.8	69.3	67.7	66.2	64.6
89.3	5°	86.2	84.6	80.0	75.4	70.8	66.2	63.1	60.0	56.9	55.4
98.5	7.5°	93.9	90.8	81.6	73.9	67.7	61.6	58.5	53.9	50.8	46.2
109.3	10°	103.1	97.0	84.6	75.4	66.2	58.5	53.9	49.2	44.6	38.5
124.7	12.5°	115.4	104.6	89.3	73.9	63.1	53.9	49.2	43.1	38.5	33.9
144.7	15°	126.2	112.3	90.8	73.9	60.0	49.2	43.1	36.9	32.3	26.2
181.6	17.5°	141.6	118.5	89.3	69.3	55.4	43.1	36.9	32.3	24.6	15.4
269.3	20°	167.7	123.1	86.2	64.6	47.7	35.4	27.7	21.5	10.8	3.1
404.7	22.5°	209.3	135.4	83.1	58.5	41.6	27.7	18.5	7.7	0.0	0.0
615.6	25°	289.3	157.0	83.1	55.4	36.9	20.0	6.2	0.0	0.0	0.0
874.1	27.5°	384.7	186.2	83.1	47.7	29.2	10.8	0.0	0.0	0.0	0.0
1191.1	30°	481.7	218.5	83.1	41.6	23.1	1.5	0.0	0.0	0.0	0.0
1466.6	32.5°	574.0	246.2	84.6	35.4	15.4	0.0	0.0	0.0	0.0	0.0
1848.2	35°	667.9	250.8	83.1	30.8	9.2	0.0	0.0	0.0	0.0	0.0
2316.1	37.5°	787.9	241.6	78.5	27.7	4.6	0.0	0.0	0.0	0.0	0.0
3047.0	40°	969.5	246.2	73.9	26.2	1.5	0.0	0.0	0.0	0.0	0.0
4350.5	42.5°	1305.0	266.2	67.7	26.2	0.0	0.0	0.0	0.0	0.0	0.0
6929.7	45°	2256.0	357.0	61.6	27.7	0.0	0.0	0.0	0.0	0.0	0.0
10403.1	47.5°	3731.9	641.7	60.0	27.7	0.0	0.0	0.0	0.0	0.0	0.0
12531.4	50°	4762.9	807.9	63.1	29.2	0.0	0.0	0.0	0.0	0.0	0.0
12797.6	52.5°	4755.2	900.3	66.2	30.8	6.2	0.0	0.0	0.0	0.0	0.0
11795.8	55°	4227.4	917.2	70.8	33.9	20.0	0.0	0.0	0.0	0.0	0.0
10136.8	57.5°	3533.3	837.2	81.6	41.6	36.9	0.0	0.0	0.0	0.0	0.0
9876.7	58°	3410.2	800.2	84.6	43.1	40.0	0.0	0.0	0.0	0.0	0.0
8567.1	60°	2794.7	652.5	107.7	53.9	53.9	0.0	0.0	0.0	0.0	0.0
7023.6	62.5°	1929.8	569.4	123.1	69.3	55.4	0.0	0.0	0.0	0.0	0.0
5178.4	65°	1365.0	514.0	133.9	73.9	44.6	0.0	0.0	0.0	0.0	0.0
3679.5	67.5°	1020.3	474.0	147.7	75.4	23.1	0.0	0.0	0.0	0.0	0.0
2308.4	70°	781.8	444.7	181.6	80.0	6.2	0.0	0.0	0.0	0.0	0.0
1375.8	72.5°	637.1	410.9	220.1	83.1	0.0	0.0	0.0	0.0	0.0	0.0
824.9	75°	527.8	370.9	212.4	90.8	0.0	0.0	0.0	0.0	0.0	0.0
440.1	77.5°	350.9	287.8	193.9	90.8	0.0	0.0	0.0	0.0	0.0	0.0
157.0	80°	123.1	113.9	150.8	80.0	0.0	0.0	0.0	0.0	0.0	0.0
32.3	82.5°	18.5	15.4	21.5	27.7	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°
89.3	0°	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
63.1	2.5°	63.1	63.1	61.6	63.1	63.1	66.2	73.9	84.6	97.0	101.6
53.9	5°	52.3	50.8	49.2	49.2	49.2	53.9	60.0	72.3	86.2	92.3
44.6	7.5°	43.1	41.6	40.0	38.5	38.5	41.6	49.2	63.1	76.9	83.1
36.9	10°	35.4	32.3	30.8	29.2	29.2	32.3	40.0	53.9	69.3	75.4
30.8	12.5°	29.2	24.6	21.5	20.0	18.5	23.1	30.8	43.1	60.0	67.7
23.1	15°	20.0	15.4	10.8	9.2	7.7	12.3	20.0	33.9	50.8	60.0
12.3	17.5°	10.8	4.6	1.5	0.0	0.0	3.1	9.2	24.6	41.6	49.2
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°
89.3	0°	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
106.2	2.5°	109.3	107.7	104.6	101.6	101.6	101.6	106.2	110.8	115.4	115.4
95.4	5°	101.6	101.6	100.0	97.0	97.0	98.5	104.6	112.3	118.5	120.0
87.7	7.5°	93.9	97.0	93.9	92.3	93.9	95.4	101.6	110.8	120.0	123.1
81.6	10°	89.3	90.8	90.8	89.3	89.3	92.3	98.5	110.8	123.1	127.7
73.9	12.5°	83.1	86.2	84.6	84.6	84.6	87.7	95.4	109.3	126.2	132.3
66.2	15°	76.9	81.6	81.6	80.0	80.0	81.6	92.3	107.7	130.8	141.6
56.9	17.5°	70.8	75.4	76.9	73.9	73.9	76.9	87.7	107.7	133.9	152.4
46.2	20°	58.5	66.2	70.8	66.2	66.2	69.3	80.0	101.6	135.4	163.1
33.9	22.5°	46.2	53.9	60.0	58.5	58.5	60.0	73.9	97.0	137.0	181.6
20.0	25°	33.9	41.6	46.2	49.2	49.2	53.9	67.7	93.9	143.1	220.1
9.2	27.5°	20.0	29.2	35.4	38.5	40.0	46.2	63.1	90.8	153.9	275.5
0.0	30°	9.2	16.9	24.6	30.8	30.8	41.6	58.5	87.7	167.7	355.5
0.0	32.5°	0.0	7.7	12.3	21.5	23.1	33.9	53.9	84.6	187.7	432.4
0.0	35°	0.0	0.0	6.2	16.9	16.9	27.7	49.2	81.6	218.5	490.9
0.0	37.5°	0.0	0.0	0.0	12.3	13.9	24.6	47.7	80.0	224.7	495.5
0.0	40°	0.0	0.0	0.0	9.2	10.8	23.1	47.7	81.6	203.1	484.8
0.0	42.5°	0.0	0.0	0.0	6.2	7.7	23.1	47.7	84.6	183.1	497.1
0.0	45°	0.0	0.0	0.0	4.6	6.2	24.6	46.2	83.1	172.4	561.7
0.0	47.5°	0.0	0.0	0.0	6.2	9.2	24.6	44.6	81.6	173.9	775.6
0.0	50°	0.0	0.0	0.0	7.7	10.8	24.6	46.2	78.5	190.8	1192.7
0.0	52.5°	0.0	0.0	0.0	6.2	9.2	27.7	50.8	76.9	207.8	1551.2
0.0	55°	0.0	0.0	0.0	1.5	4.6	35.4	55.4	76.9	233.9	1640.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	40.0	63.1	81.6	277.0	1605.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	40.0	64.6	81.6	280.1	1574.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	40.0	70.8	90.8	301.6	1401.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	33.9	84.6	113.9	313.9	1101.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	27.7	100.0	124.7	323.2	877.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	26.2	103.1	126.2	327.8	698.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	27.7	101.6	135.4	343.2	567.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	30.8	92.3	149.3	343.2	503.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	32.3	86.2	167.7	312.4	435.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	30.8	84.6	195.4	278.5	358.6
0.0	80°	3.1	4.6	4.6	3.1	3.1	26.2	83.1	198.5	237.0	246.2
1.5	82.5°	9.2	12.3	10.8	7.7	7.7	23.1	73.9	166.2	123.1	106.2
9.2	85°	16.9	20.0	20.0	16.9	16.9	21.5	46.2	60.0	41.6	33.9
16.9	87.5°	23.1	26.2	26.2	23.1	23.1	21.5	20.0	18.5	16.9	16.9
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: SP1-2407-184-13

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-927-U-5WQ

Data in this report applies to families of products including GSS-SB1A-927-U-5WQ

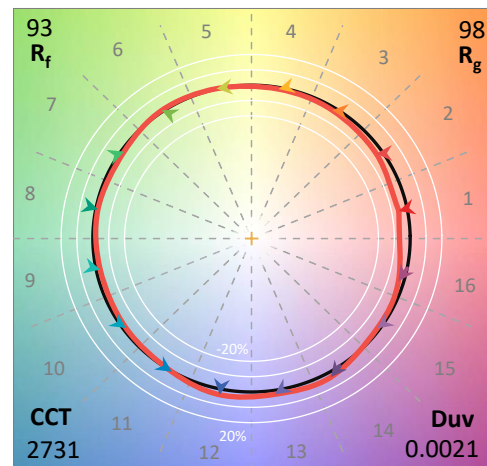
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-13
 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-927-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2731
 CIE u' : 0.2605
 CIE v' : 0.5298
 Duv: 0.0021
 CIE x: 0.4610
 CIE y: 0.4166
 CIE z: 0.1224
 Peak Wavelength (nm): 622
 Dominant Wavelength (nm): 583
 Purity: 63.43685
 R_f: 92.6
 R_g: 98

CRI (Ra): 91.8
 R1: 91.4
 R2: 95.1
 R3: 97.6
 R4: 92.3
 R5: 91.1
 R6: 94.7
 R7: 92.3
 R8: 80.0
 R9: 54.7
 R10: 87.7
 R11: 92.9
 R12: 84.0
 R13: 92.2
 R14: 97.8
 R15: 86.8



Test Conditions

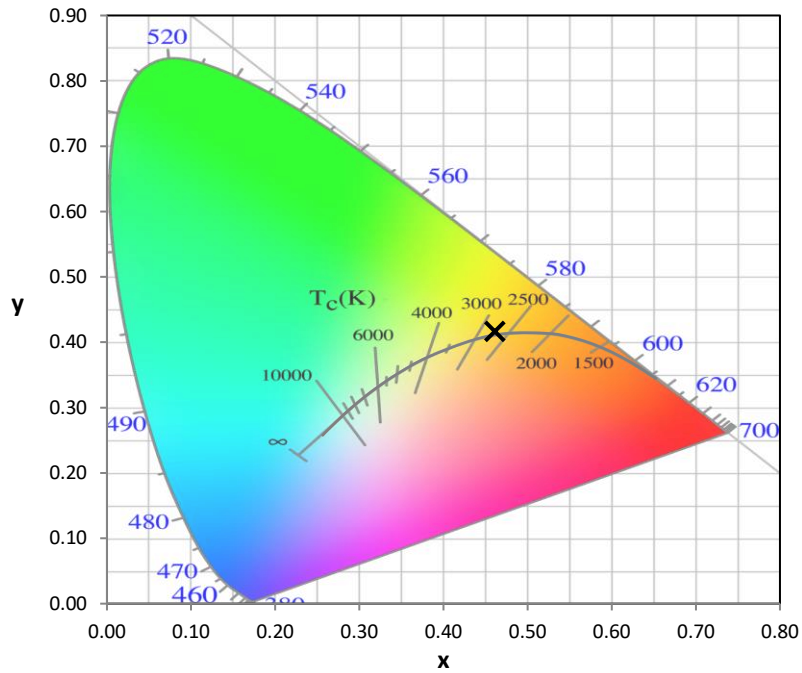
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

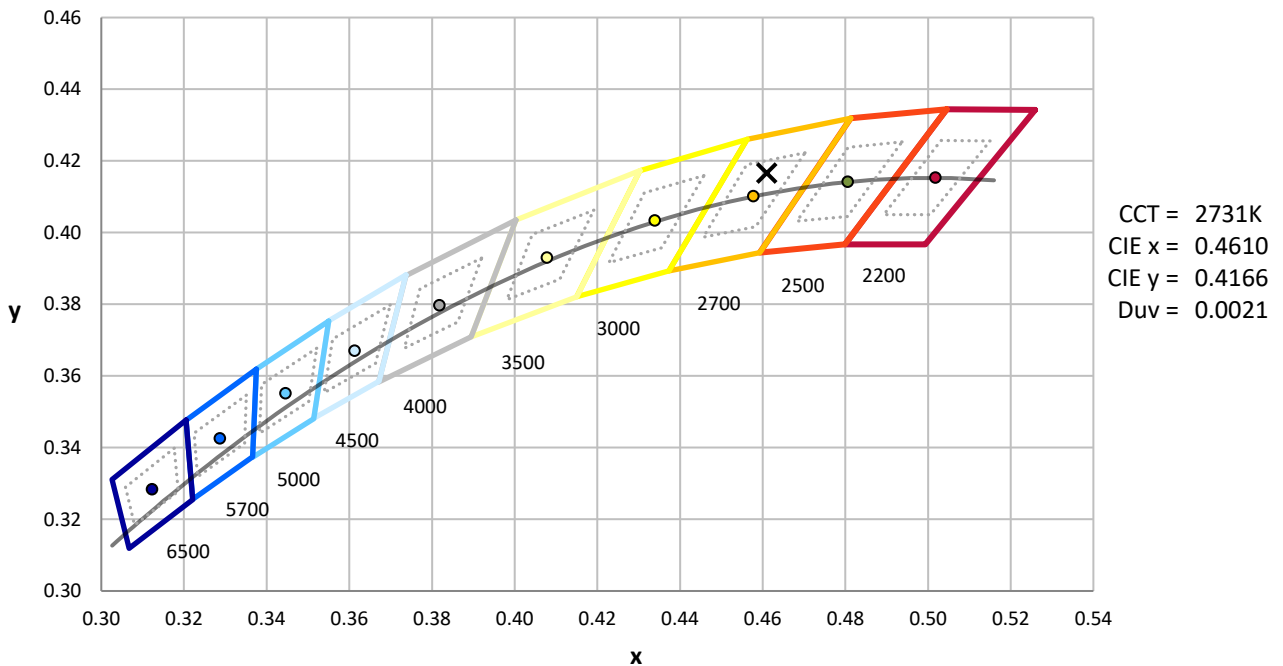
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



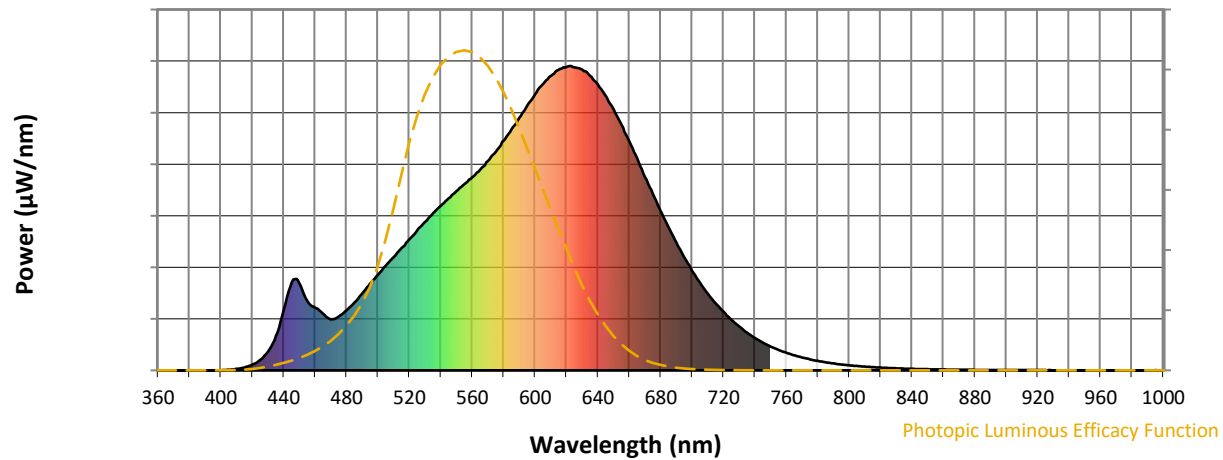
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-13

Photopic Flux vs. Wavelength

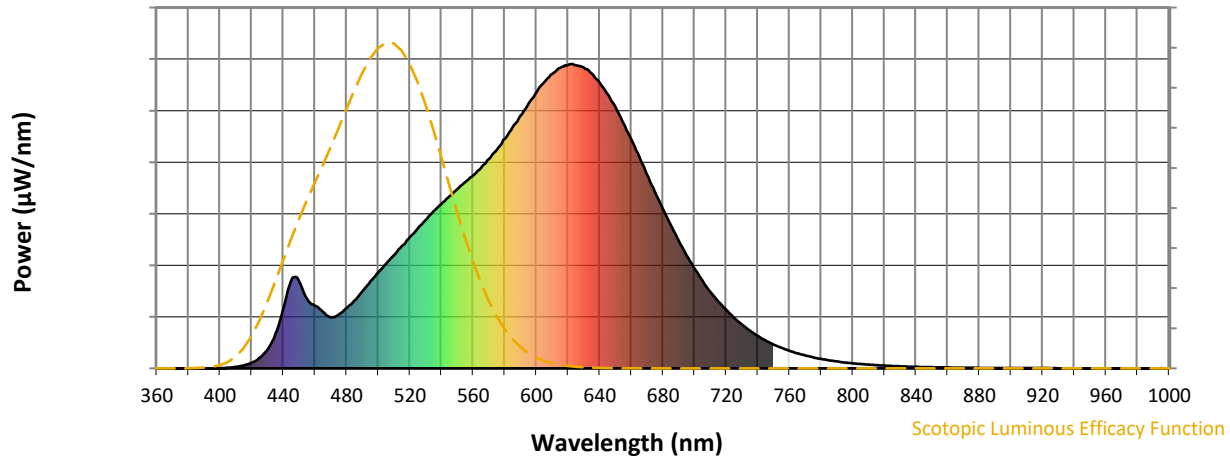


Photopic Lumens: NR

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

Scotopic Flux vs. Wavelength



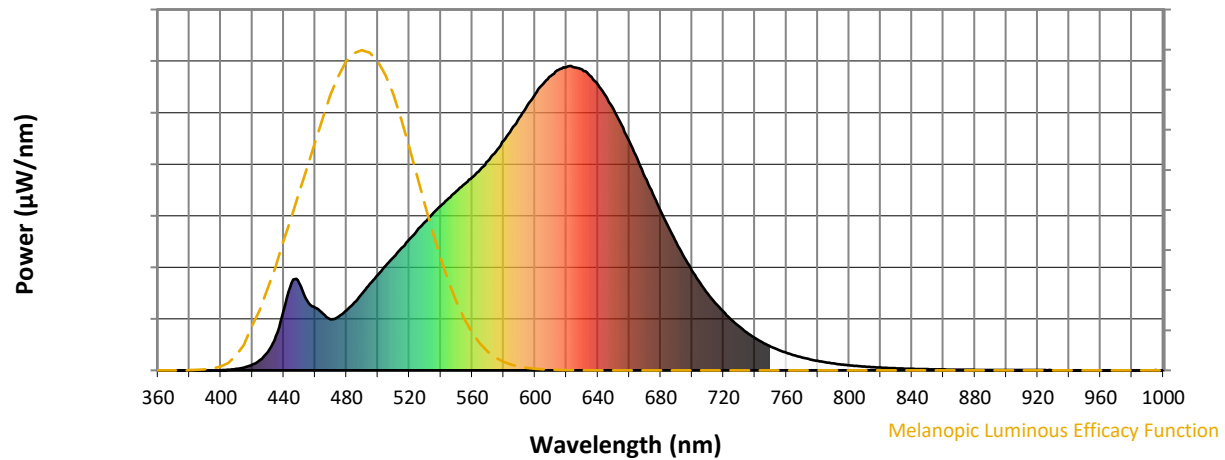
Scotopic Lumens: NR

S/P: 1.27

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.38

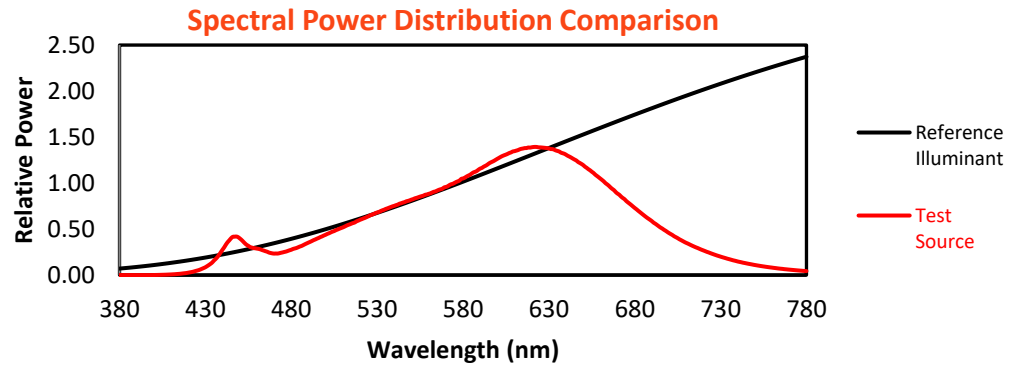
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

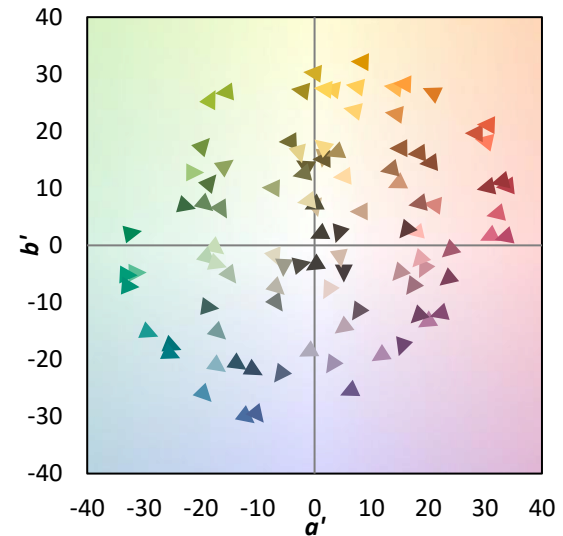
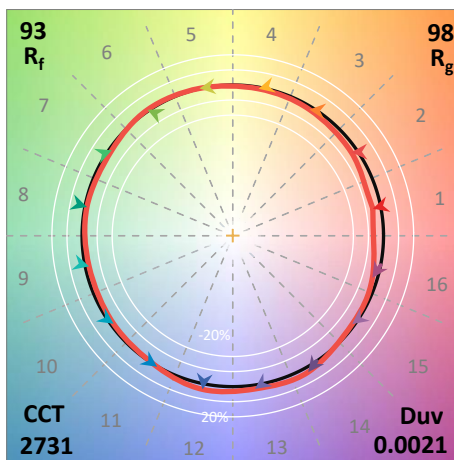
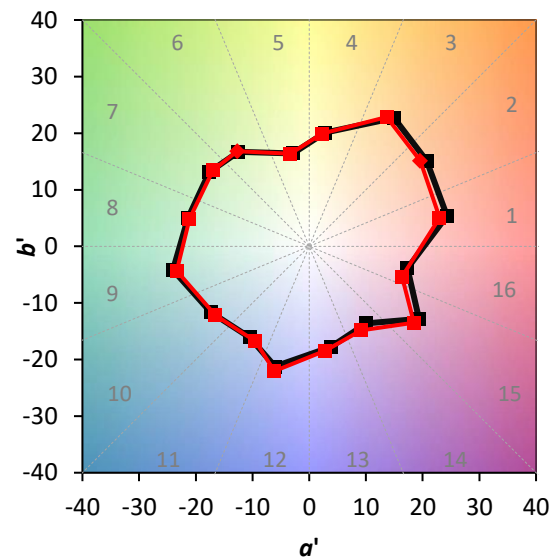
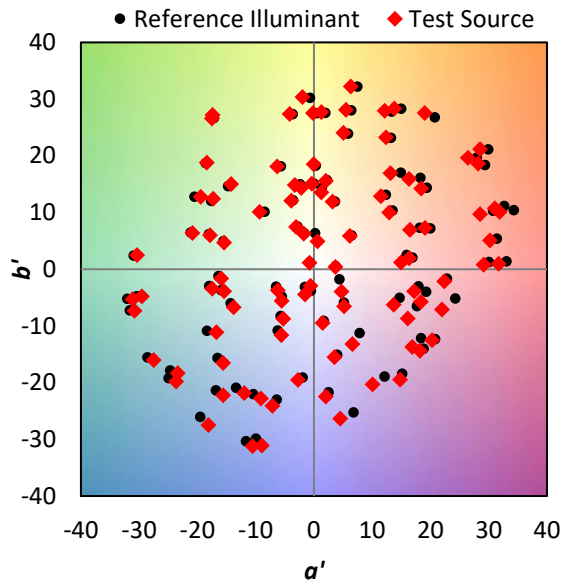
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98$
 $CIE R_a = 91.8$
 $R_9 = 54.7$

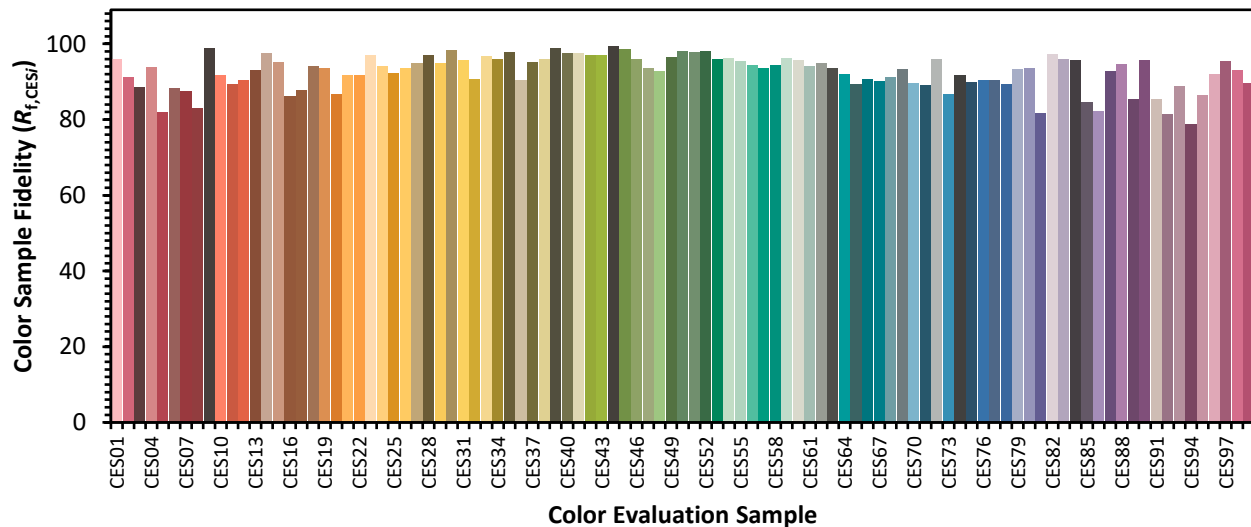


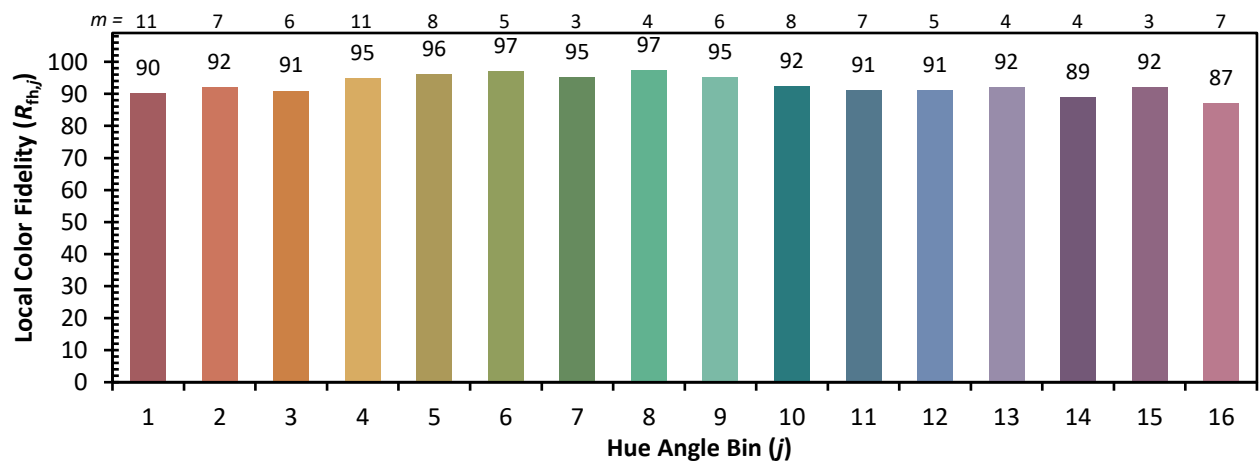
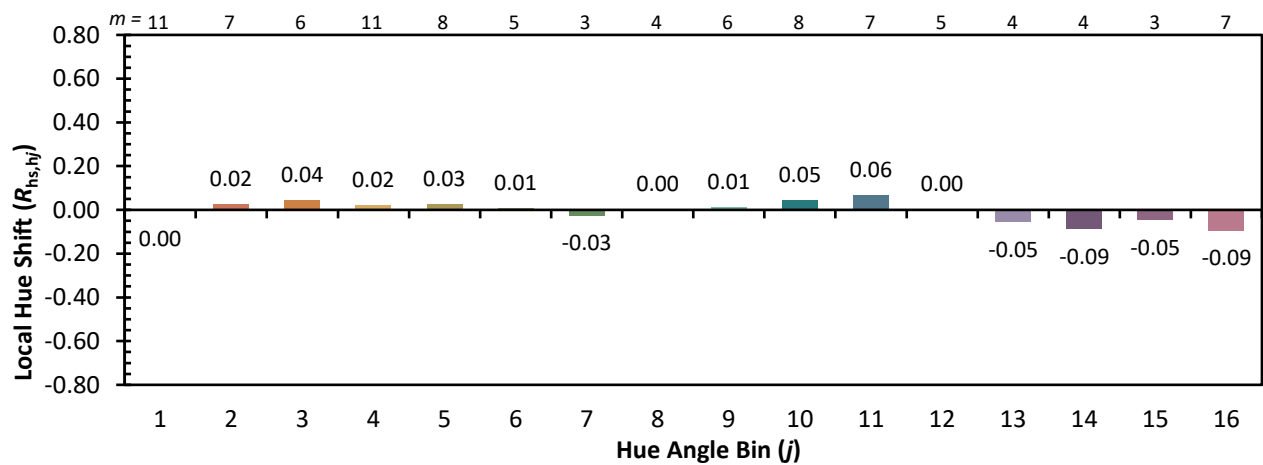
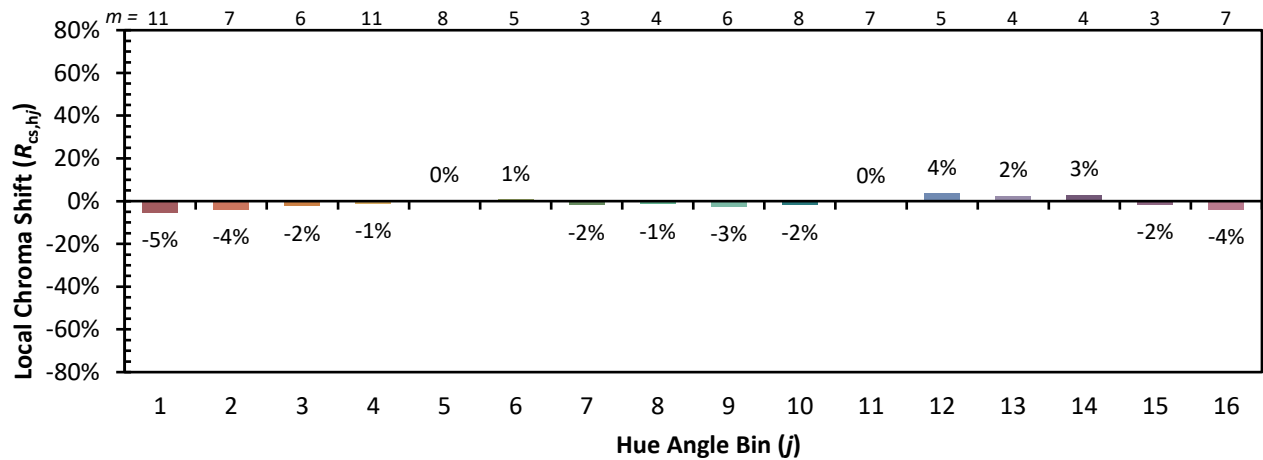
Color Vector Graphics

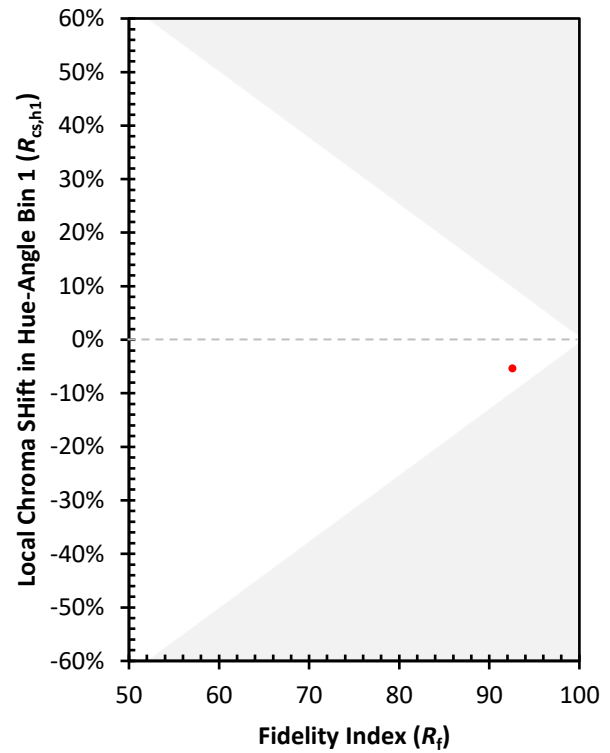
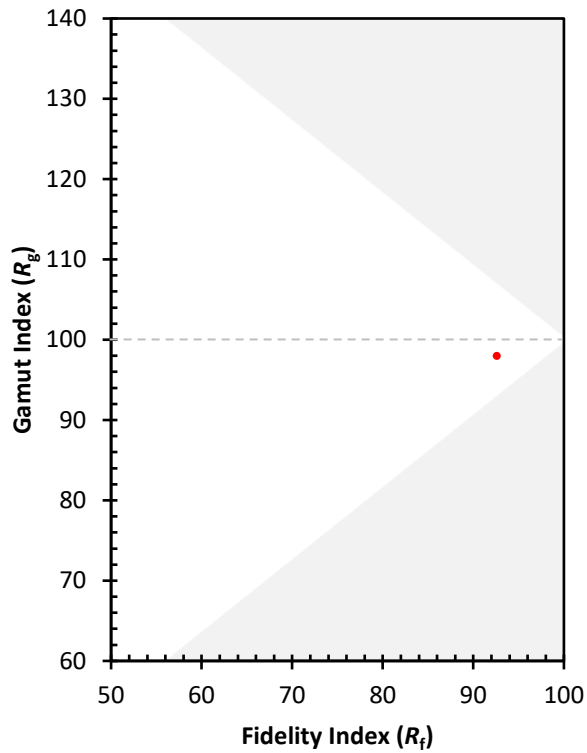


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 64	CES27 = 95	CES52 = 98	CES77 = 90
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 89
CES04 = 71	CES29 = 95	CES54 = 96	CES79 = 93
CES05 = 51	CES30 = 98	CES55 = 95	CES80 = 94
CES06 = 52	CES31 = 96	CES56 = 94	CES81 = 82
CES07 = 44	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 43	CES33 = 97	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 96	CES59 = 96	CES84 = 96
CES10 = 77	CES35 = 98	CES60 = 96	CES85 = 85
CES11 = 59	CES36 = 90	CES61 = 94	CES86 = 82
CES12 = 66	CES37 = 95	CES62 = 95	CES87 = 93
CES13 = 44	CES38 = 96	CES63 = 94	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 85
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 91	CES91 = 85
CES17 = 50	CES42 = 97	CES67 = 90	CES92 = 82
CES18 = 57	CES43 = 97	CES68 = 91	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 93	CES94 = 79
CES20 = 68	CES45 = 99	CES70 = 90	CES95 = 87
CES21 = 87	CES46 = 96	CES71 = 89	CES96 = 92
CES22 = 79	CES47 = 94	CES72 = 96	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 87	CES98 = 93
CES24 = 91	CES49 = 96	CES74 = 92	CES99 = 90
CES25 = 72	CES50 = 98	CES75 = 90	



Color Rendition by Hue-Angle Bin


Measure Comparisons


(END OF REPORT)