

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: P1049982

Luminaire Tested: **GALN-SA5B-935-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049982
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-935-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
90CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14856 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 178.8
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

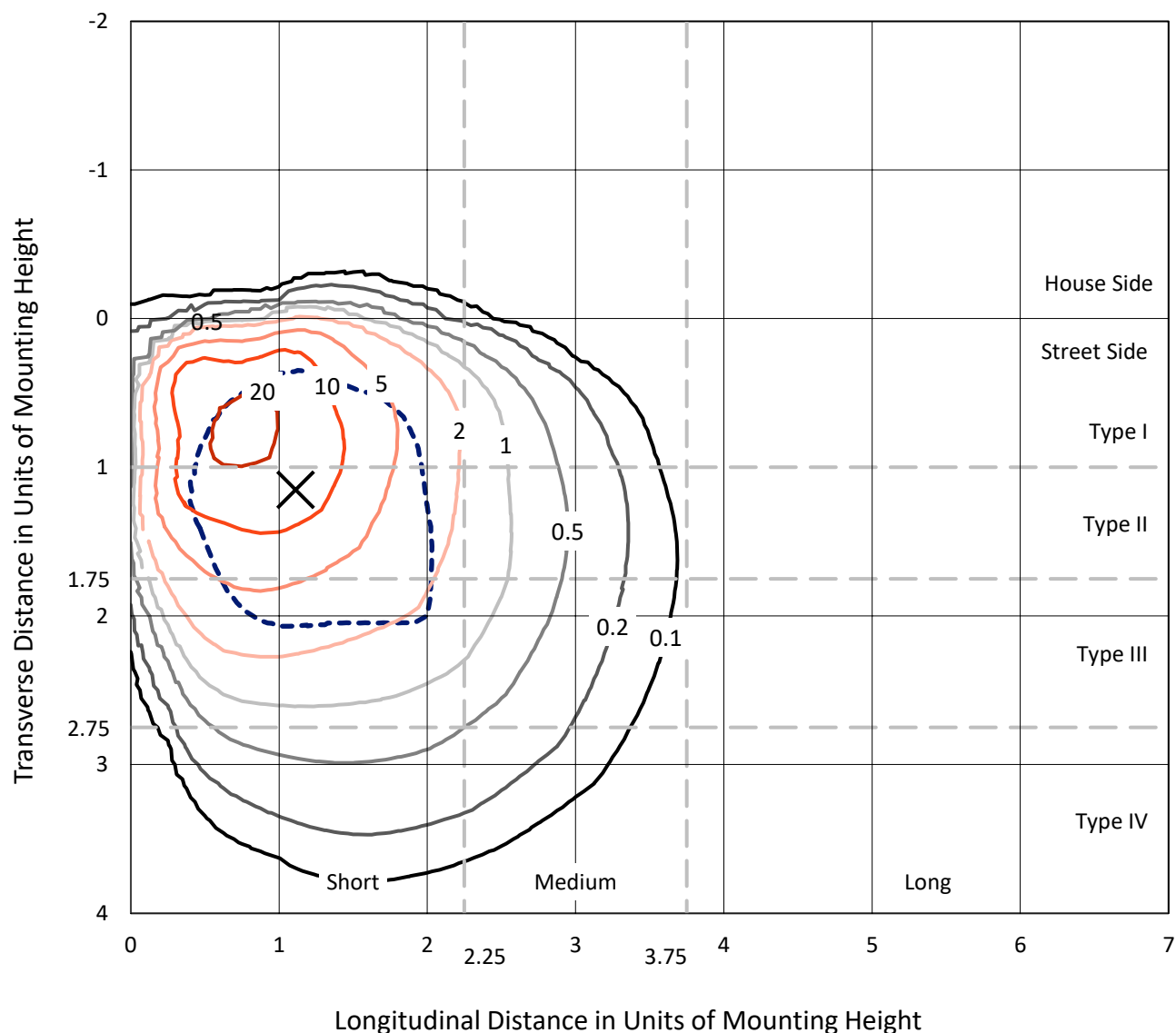
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

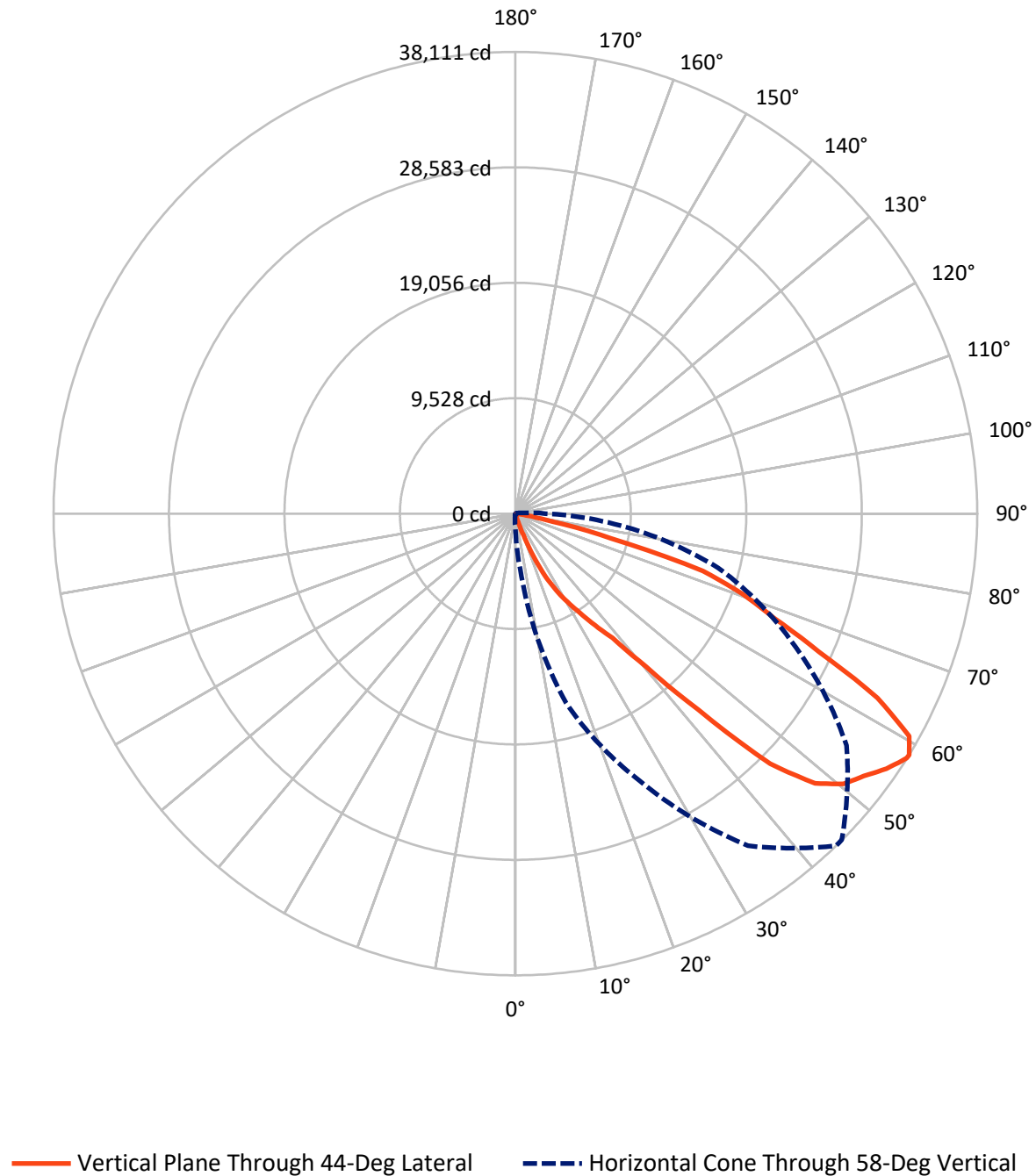


Based on 20 foot mounting height. Maximum calculated value = 25.9 fc

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	101.4	0.0	101.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14754.5	0.0	14754.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	14856.0	0.0	14856.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.0
10°-20°	32.6	0.2
20°-30°	351.9	2.4
30°-40°	1040.8	7.0
40°-50°	3102.2	20.9
50°-60°	4922.4	33.1
60°-70°	4105.9	27.6
70°-80°	1266.3	8.5
80°-90°	28.1	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°	14856.0	100.0
0°-180°	14856.0	100.0



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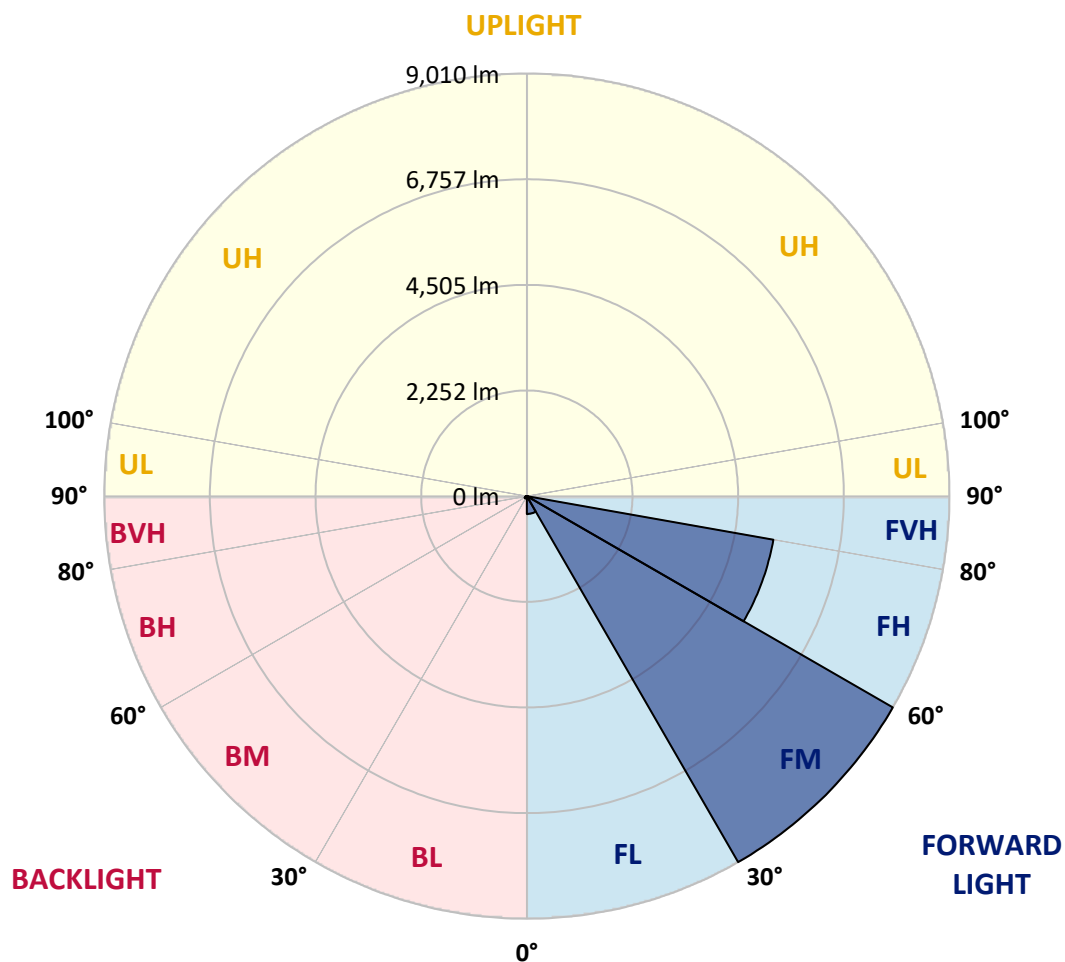
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.4	2.6			
FM	(30°-60°)	9009.8	60.6			
FH	(60°-80°)	5337.5	35.9			G3/7500
FVH	(80°-90°)	26.8	0.2			G1/100
BL	(0°-30°)	9.9	0.1	B0/110		
BM	(30°-60°)	55.5	0.4	B0/220		
BH	(60°-80°)	34.6	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	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°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	84.2	84.2	80.8	76.3	71.8	67.3	66.2	64.0	62.8	61.7
5°	87.5	87.5	86.4	83.0	78.6	75.2	75.2	71.8	69.6	67.3
7.5°	89.8	90.9	93.1	92.0	89.8	86.4	86.4	84.2	80.8	75.2
10°	93.1	96.5	101.0	103.2	104.4	104.4	103.2	102.1	96.5	88.7
12.5°	96.5	103.2	114.5	125.7	132.4	141.4	140.3	138.0	123.4	106.6
15°	103.2	113.3	136.9	169.5	220.0	251.4	263.7	252.5	204.2	143.6
17.5°	111.1	127.9	198.6	354.6	581.3	689.1	754.1	701.4	464.6	272.7
20°	119.0	156.0	369.2	919.1	1508.3	1860.7	1958.3	1805.7	1159.3	519.6
22.5°	132.4	218.8	748.5	1900.0	3250.0	3778.6	3878.5	3390.3	2189.5	1025.7
25°	160.5	317.6	1290.6	3096.3	4850.3	5742.5	5701.0	5061.3	3551.9	1638.5
27.5°	200.9	462.4	1951.6	4399.2	6383.3	7170.0	7264.3	6473.1	4734.7	2409.5
30°	259.2	640.8	2660.8	5442.9	7612.2	8462.8	8478.5	7660.4	5793.0	3086.2
32.5°	315.3	809.1	3281.4	6451.8	8823.1	9755.6	9825.2	8818.6	6583.1	3790.9
35°	358.0	919.1	3909.9	7338.3	10044.1	11329.0	11324.5	10129.4	7519.0	4420.5
37.5°	361.4	1029.1	4478.9	8245.1	11590.5	13029.2	13171.8	11854.2	8650.2	5199.3
40°	353.5	1152.5	5199.3	9659.1	14377.0	16584.5	16710.2	15049.3	10919.4	6532.6
42.5°	362.5	1366.9	6368.7	12270.6	19004.0	22174.4	22416.8	20670.6	15090.8	9252.9
45°	409.6	1769.8	8818.6	16639.5	25599.5	29464.5	29383.7	26868.7	19944.5	13394.0
47.5°	565.6	2756.2	12450.2	20891.7	29814.6	33256.5	33326.1	30252.3	22777.0	16577.8
50°	869.7	4217.4	15501.5	23139.5	31627.0	35080.2	35015.1	31463.2	23853.3	18145.5
52.5°	1131.2	5274.5	17032.3	23928.4	31859.3	35981.3	35976.8	31781.9	24020.5	18280.2
55°	1196.3	5354.2	17044.6	23971.1	32380.0	37160.8	37308.9	32566.3	24237.1	17692.1
57.5°	1170.5	4740.3	16333.1	24218.0	33307.0	38073.2	38081.0	33326.1	24787.0	17331.9
58°	1148.1	4643.8	16189.5	24358.3	33466.4	38111.3	38092.3	33360.9	25234.7	17318.4
60°	1022.4	4032.2	15629.5	24716.3	33229.6	37328.0	37149.6	32601.1	25168.5	17180.4
62.5°	803.5	3145.6	15078.4	24302.1	30691.1	33536.0	33610.0	28862.9	22944.2	16375.8
65°	639.7	2344.4	13929.3	21317.0	25272.9	27539.8	27815.9	23470.6	19151.1	13866.4
67.5°	509.5	1694.6	11684.8	16971.7	19998.4	22984.6	23185.5	19705.4	14837.2	10624.3
70°	414.1	1145.8	8065.6	12412.0	16494.7	19852.5	19864.8	16370.1	11074.3	6961.3
72.5°	367.0	793.4	4682.0	9052.0	13374.9	16177.1	15850.5	13284.0	8511.1	4123.1
75°	317.6	526.3	2296.1	5533.8	8109.3	8164.3	8288.9	6162.2	4254.4	1960.6
77.5°	261.5	373.7	904.5	1511.7	2431.9	3113.1	3228.7	2446.5	1415.1	482.6
80°	179.6	177.3	243.5	463.5	695.8	872.0	813.6	629.6	370.3	185.2
82.5°	77.4	84.2	110.0	132.4	107.7	104.4	99.9	64.0	49.4	38.2
85°	24.7	22.4	23.6	23.6	19.1	14.6	14.6	6.7	0.0	0.0
87.5°	12.3	10.1	10.1	9.0	5.6	2.2	1.1	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°
65.1	0°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
60.6	2.5°	59.5	59.5	57.2	55.0	53.9	51.6	50.5	49.4	48.3	47.1
65.1	5°	62.8	61.7	58.4	55.0	51.6	48.3	46.0	43.8	41.5	40.4
71.8	7.5°	68.5	66.2	59.5	53.9	49.4	44.9	42.6	39.3	37.0	33.7
79.7	10°	75.2	70.7	61.7	55.0	48.3	42.6	39.3	35.9	32.5	28.1
90.9	12.5°	84.2	76.3	65.1	53.9	46.0	39.3	35.9	31.4	28.1	24.7
105.5	15°	92.0	81.9	66.2	53.9	43.8	35.9	31.4	26.9	23.6	19.1
132.4	17.5°	103.2	86.4	65.1	50.5	40.4	31.4	26.9	23.6	18.0	11.2
196.4	20°	122.3	89.8	62.8	47.1	34.8	25.8	20.2	15.7	7.9	2.2
295.1	22.5°	152.6	98.8	60.6	42.6	30.3	20.2	13.5	5.6	0.0	0.0
448.9	25°	211.0	114.5	60.6	40.4	26.9	14.6	4.5	0.0	0.0	0.0
637.4	27.5°	280.6	135.8	60.6	34.8	21.3	7.9	0.0	0.0	0.0	0.0
868.6	30°	351.3	159.4	60.6	30.3	16.8	1.1	0.0	0.0	0.0	0.0
1069.5	32.5°	418.6	179.6	61.7	25.8	11.2	0.0	0.0	0.0	0.0	0.0
1347.8	35°	487.1	182.9	60.6	22.4	6.7	0.0	0.0	0.0	0.0	0.0
1689.0	37.5°	574.6	176.2	57.2	20.2	3.4	0.0	0.0	0.0	0.0	0.0
2222.0	40°	707.0	179.6	53.9	19.1	1.1	0.0	0.0	0.0	0.0	0.0
3172.6	42.5°	951.7	194.1	49.4	19.1	0.0	0.0	0.0	0.0	0.0	0.0
5053.5	45°	1645.2	260.4	44.9	20.2	0.0	0.0	0.0	0.0	0.0	0.0
7586.4	47.5°	2721.4	468.0	43.8	20.2	0.0	0.0	0.0	0.0	0.0	0.0
9138.4	50°	3473.3	589.2	46.0	21.3	0.0	0.0	0.0	0.0	0.0	0.0
9332.6	52.5°	3467.7	656.5	48.3	22.4	4.5	0.0	0.0	0.0	0.0	0.0
8602.0	55°	3082.8	668.9	51.6	24.7	14.6	0.0	0.0	0.0	0.0	0.0
7392.2	57.5°	2576.7	610.5	59.5	30.3	26.9	0.0	0.0	0.0	0.0	0.0
7202.5	58°	2486.9	583.6	61.7	31.4	29.2	0.0	0.0	0.0	0.0	0.0
6247.5	60°	2038.0	475.8	78.6	39.3	39.3	0.0	0.0	0.0	0.0	0.0
5121.9	62.5°	1407.3	415.2	89.8	50.5	40.4	0.0	0.0	0.0	0.0	0.0
3776.3	65°	995.4	374.8	97.6	53.9	32.5	0.0	0.0	0.0	0.0	0.0
2683.3	67.5°	744.0	345.7	107.7	55.0	16.8	0.0	0.0	0.0	0.0	0.0
1683.4	70°	570.1	324.3	132.4	58.4	4.5	0.0	0.0	0.0	0.0	0.0
1003.3	72.5°	464.6	299.6	160.5	60.6	0.0	0.0	0.0	0.0	0.0	0.0
601.5	75°	384.9	270.5	154.9	66.2	0.0	0.0	0.0	0.0	0.0	0.0
321.0	77.5°	255.9	209.9	141.4	66.2	0.0	0.0	0.0	0.0	0.0	0.0
114.5	80°	89.8	83.0	110.0	58.4	0.0	0.0	0.0	0.0	0.0	0.0
23.6	82.5°	13.5	11.2	15.7	20.2	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°
65.1	0°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
46.0	2.5°	46.0	46.0	44.9	46.0	46.0	48.3	53.9	61.7	70.7	74.1
39.3	5°	38.2	37.0	35.9	35.9	35.9	39.3	43.8	52.7	62.8	67.3
32.5	7.5°	31.4	30.3	29.2	28.1	28.1	30.3	35.9	46.0	56.1	60.6
26.9	10°	25.8	23.6	22.4	21.3	21.3	23.6	29.2	39.3	50.5	55.0
22.4	12.5°	21.3	18.0	15.7	14.6	13.5	16.8	22.4	31.4	43.8	49.4
16.8	15°	14.6	11.2	7.9	6.7	5.6	9.0	14.6	24.7	37.0	43.8
9.0	17.5°	7.9	3.4	1.1	0.0	0.0	2.2	6.7	18.0	30.3	35.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	22.4	28.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	13.5	19.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	10.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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	3.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0
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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
65.1	0°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
77.4	2.5°	79.7	78.6	76.3	74.1	74.1	74.1	77.4	80.8	84.2	84.2
69.6	5°	74.1	74.1	72.9	70.7	70.7	71.8	76.3	81.9	86.4	87.5
64.0	7.5°	68.5	70.7	68.5	67.3	68.5	69.6	74.1	80.8	87.5	89.8
59.5	10°	65.1	66.2	66.2	65.1	65.1	67.3	71.8	80.8	89.8	93.1
53.9	12.5°	60.6	62.8	61.7	61.7	61.7	64.0	69.6	79.7	92.0	96.5
48.3	15°	56.1	59.5	59.5	58.4	58.4	59.5	67.3	78.6	95.4	103.2
41.5	17.5°	51.6	55.0	56.1	53.9	53.9	56.1	64.0	78.6	97.6	111.1
33.7	20°	42.6	48.3	51.6	48.3	48.3	50.5	58.4	74.1	98.8	119.0
24.7	22.5°	33.7	39.3	43.8	42.6	42.6	43.8	53.9	70.7	99.9	132.4
14.6	25°	24.7	30.3	33.7	35.9	35.9	39.3	49.4	68.5	104.4	160.5
6.7	27.5°	14.6	21.3	25.8	28.1	29.2	33.7	46.0	66.2	112.2	200.9
0.0	30°	6.7	12.3	18.0	22.4	22.4	30.3	42.6	64.0	122.3	259.2
0.0	32.5°	0.0	5.6	9.0	15.7	16.8	24.7	39.3	61.7	136.9	315.3
0.0	35°	0.0	0.0	4.5	12.3	12.3	20.2	35.9	59.5	159.4	358.0
0.0	37.5°	0.0	0.0	0.0	9.0	10.1	18.0	34.8	58.4	163.8	361.4
0.0	40°	0.0	0.0	0.0	6.7	7.9	16.8	34.8	59.5	148.1	353.5
0.0	42.5°	0.0	0.0	0.0	4.5	5.6	16.8	34.8	61.7	133.5	362.5
0.0	45°	0.0	0.0	0.0	3.4	4.5	18.0	33.7	60.6	125.7	409.6
0.0	47.5°	0.0	0.0	0.0	4.5	6.7	18.0	32.5	59.5	126.8	565.6
0.0	50°	0.0	0.0	0.0	5.6	7.9	18.0	33.7	57.2	139.2	869.7
0.0	52.5°	0.0	0.0	0.0	4.5	6.7	20.2	37.0	56.1	151.5	1131.2
0.0	55°	0.0	0.0	0.0	1.1	3.4	25.8	40.4	56.1	170.6	1196.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	29.2	46.0	59.5	202.0	1170.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	29.2	47.1	59.5	204.2	1148.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	29.2	51.6	66.2	220.0	1022.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	24.7	61.7	83.0	228.9	803.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	20.2	72.9	90.9	235.7	639.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	19.1	75.2	92.0	239.0	509.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	20.2	74.1	98.8	250.3	414.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	22.4	67.3	108.9	250.3	367.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	23.6	62.8	122.3	227.8	317.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	22.4	61.7	142.5	203.1	261.5
0.0	80°	2.2	3.4	3.4	2.2	2.2	19.1	60.6	144.8	172.8	179.6
1.1	82.5°	6.7	9.0	7.9	5.6	5.6	16.8	53.9	121.2	89.8	77.4
6.7	85°	12.3	14.6	14.6	12.3	12.3	15.7	33.7	43.8	30.3	24.7
12.3	87.5°	16.8	19.1	19.1	16.8	16.8	15.7	14.6	13.5	12.3	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

(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: SP1-2407-184-15

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-935-U-5WQ

Data in this report applies to families of products including GSS-SB1A-935-U-5WQ

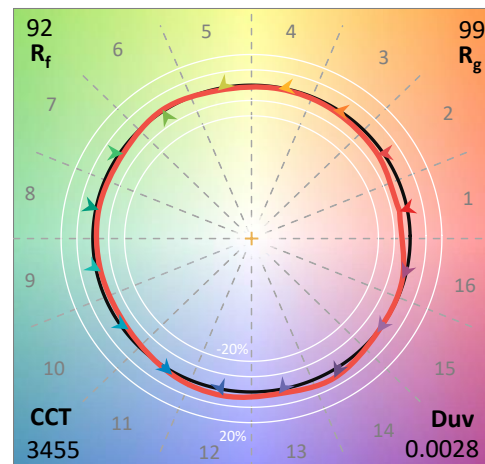
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-15
 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-935-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3455
 CIE u' : 0.2356
 CIE v' : 0.5159
 Duv: 0.0028
 CIE x: 0.4109
 CIE y: 0.3999
 CIE z: 0.1892
 Peak Wavelength (nm): 616
 Dominant Wavelength (nm): 579
 Purity: 43.35383
 R_f: 92.3
 R_g: 98.5

CRI (Ra): 92.2
 R1: 92.0
 R2: 94.4
 R3: 95.6
 R4: 93.2
 R5: 91.4
 R6: 92.5
 R7: 94.5
 R8: 84.2
 R9: 59.8
 R10: 85.8
 R11: 93.2
 R12: 78.0
 R13: 92.5
 R14: 97.0
 R15: 88.4



Test Conditions

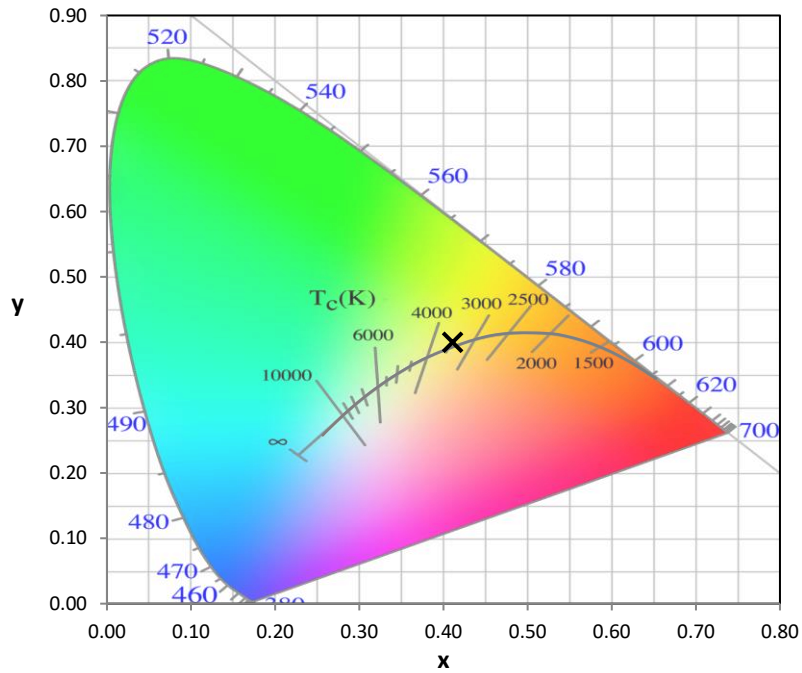
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-15

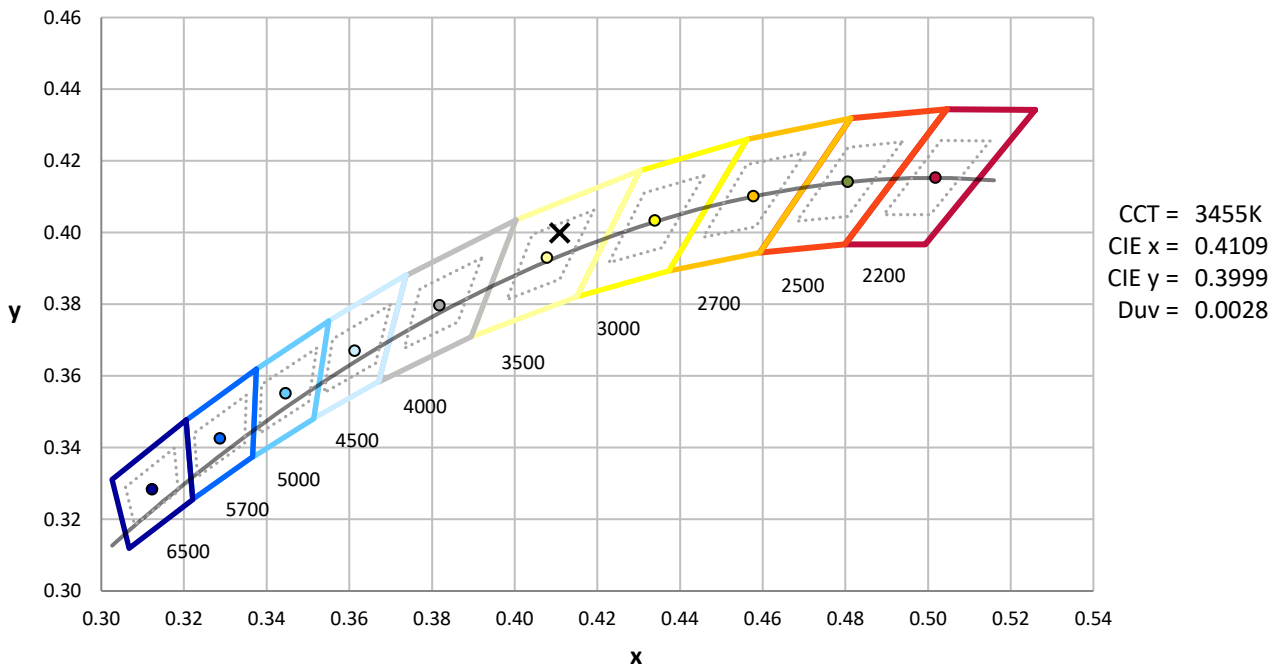
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-15

CIE 1931 Chromaticity Diagram



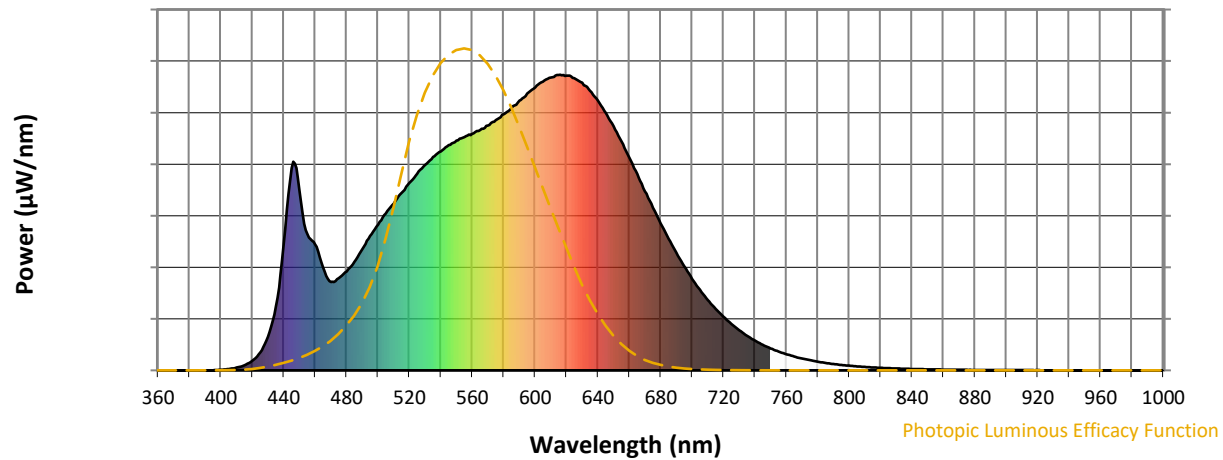
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-15

Photopic Flux vs. Wavelength

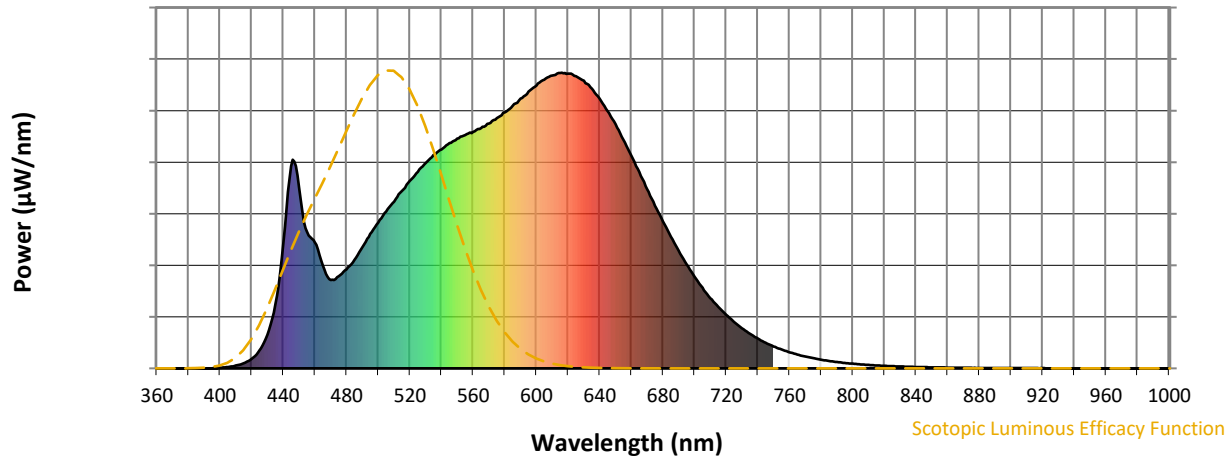


Photopic Lumens: NR

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	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-15

Scotopic Flux vs. Wavelength



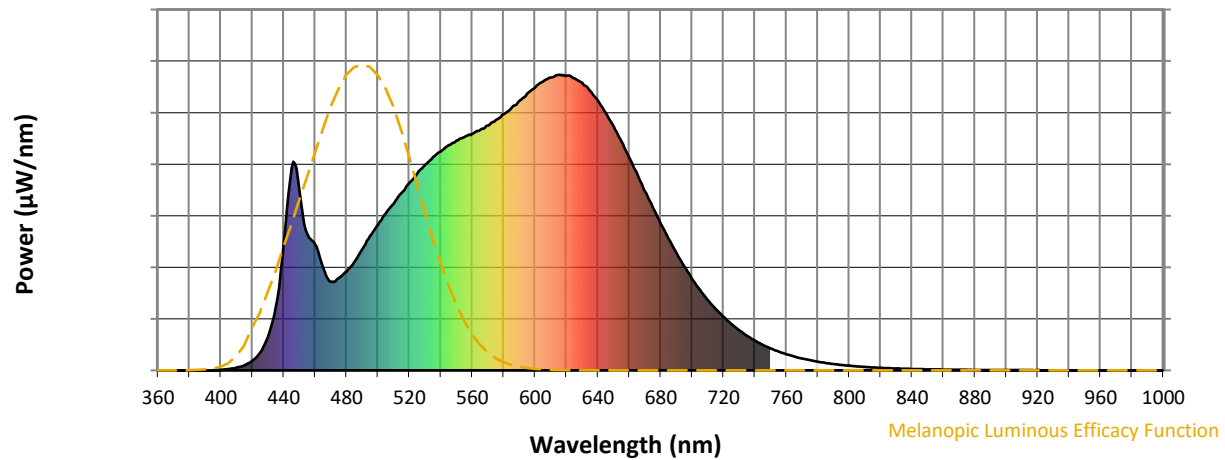
Scotopic Lumens: NR

S/P: 1.58

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	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.14

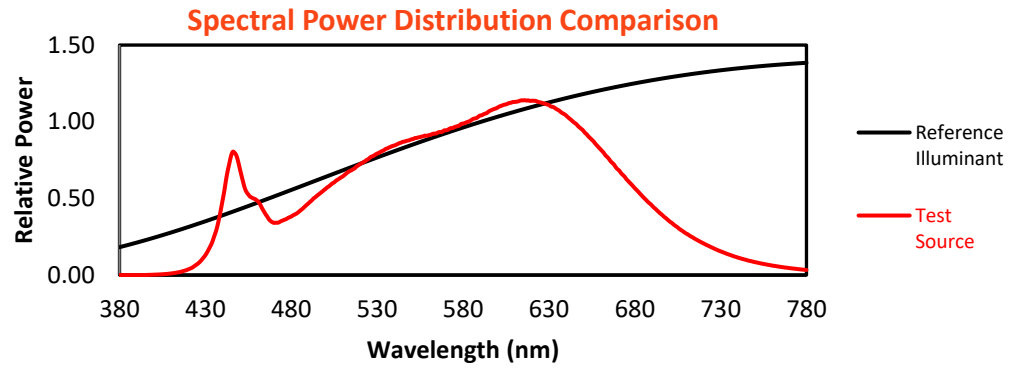
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-15

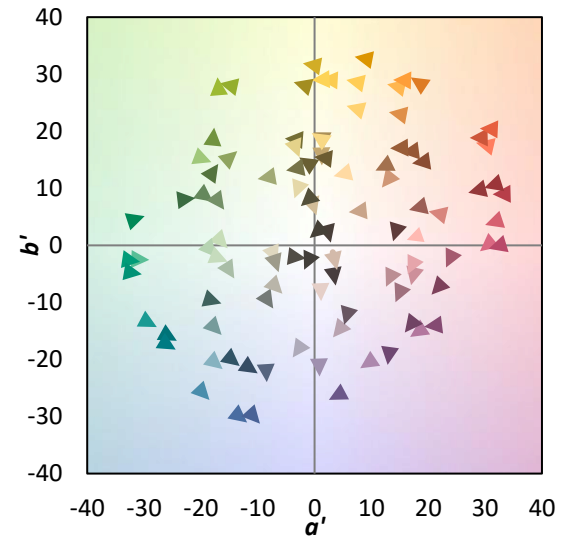
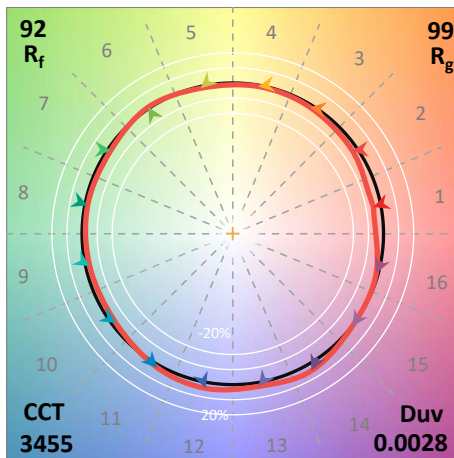
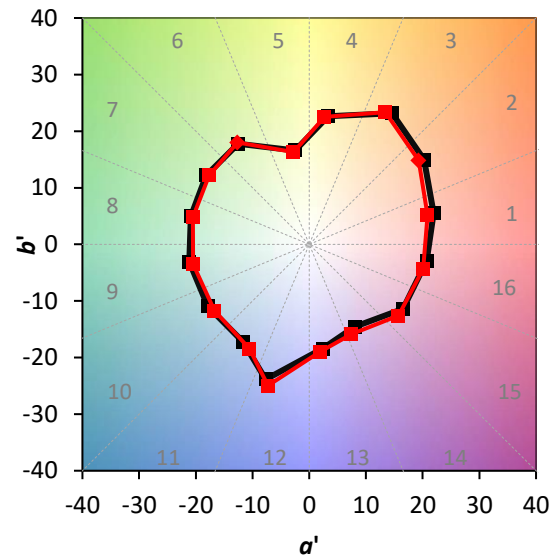
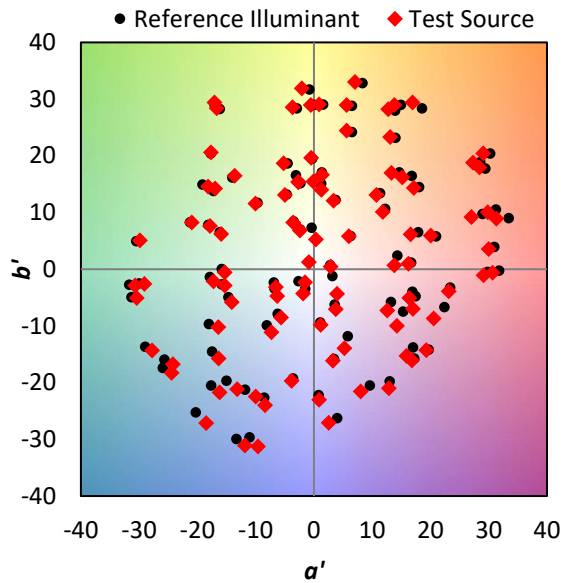
TM-30-18

Summary

$R_f = 92.3$
 $R_g = 98.5$
 $\text{CIE } R_a = 92.2$
 $R_9 = 59.8$

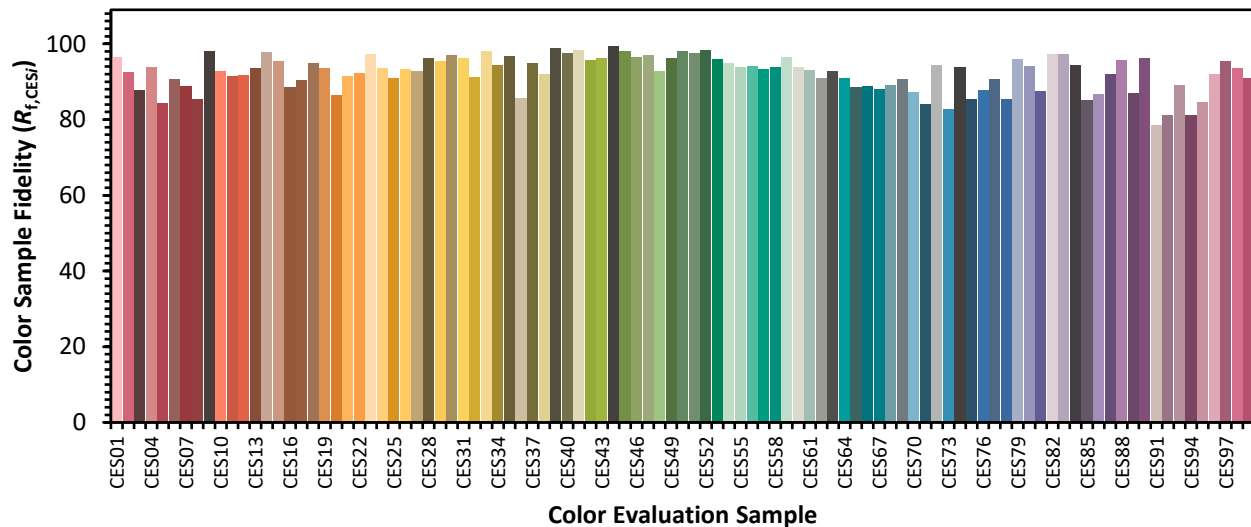


Color Vector Graphics

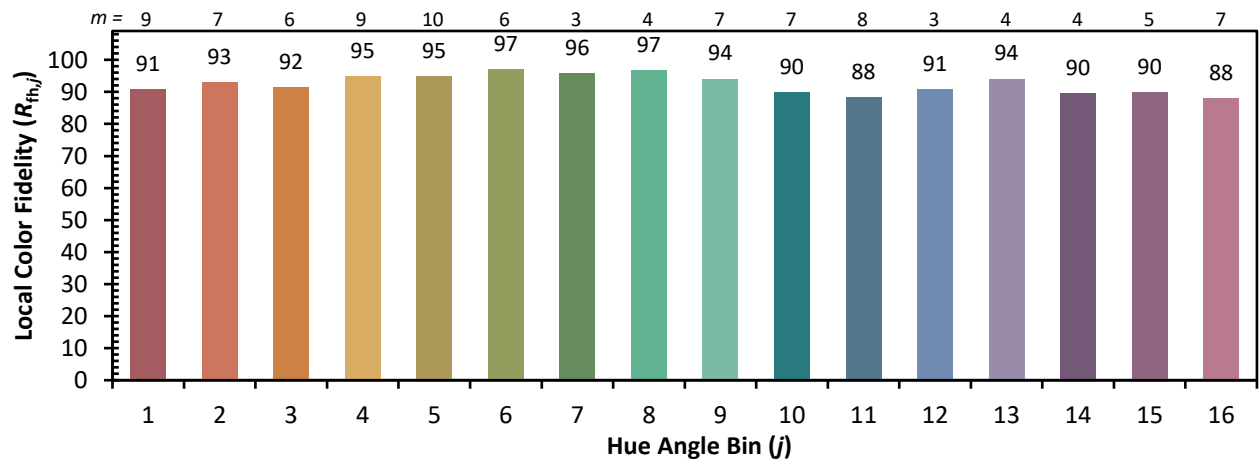
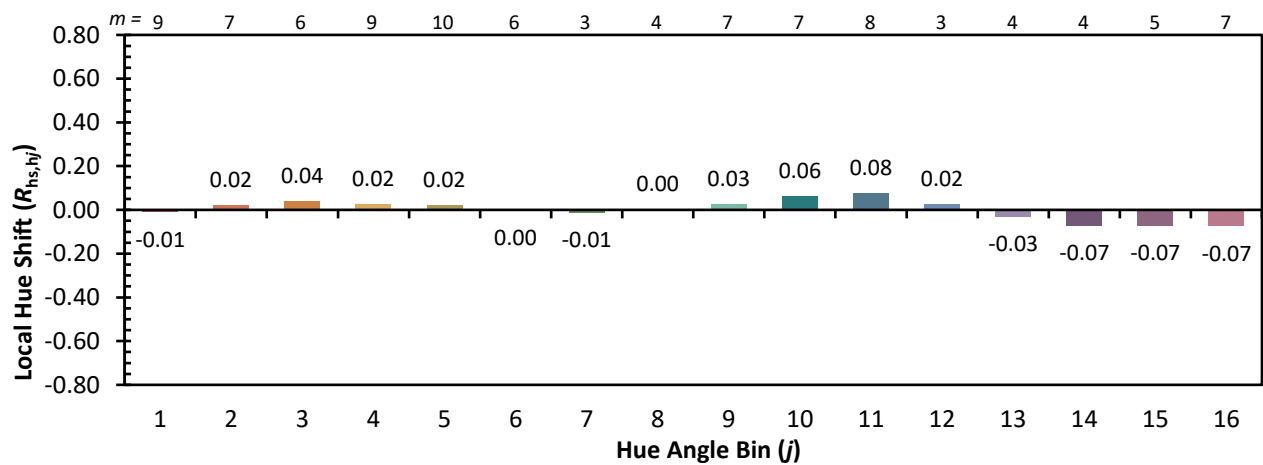
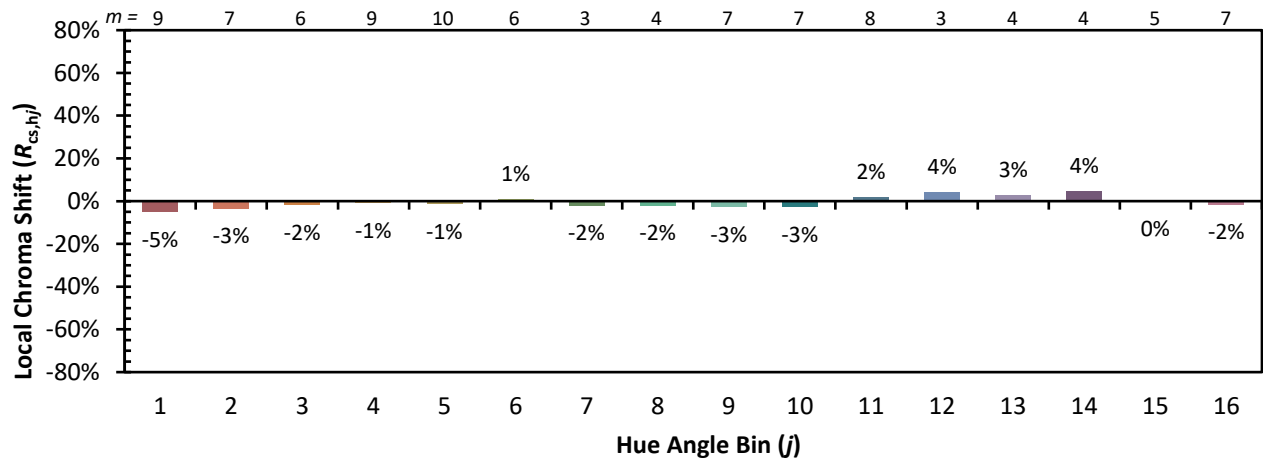


Individual Sample Fidelity Index ($R_{f,i}$)

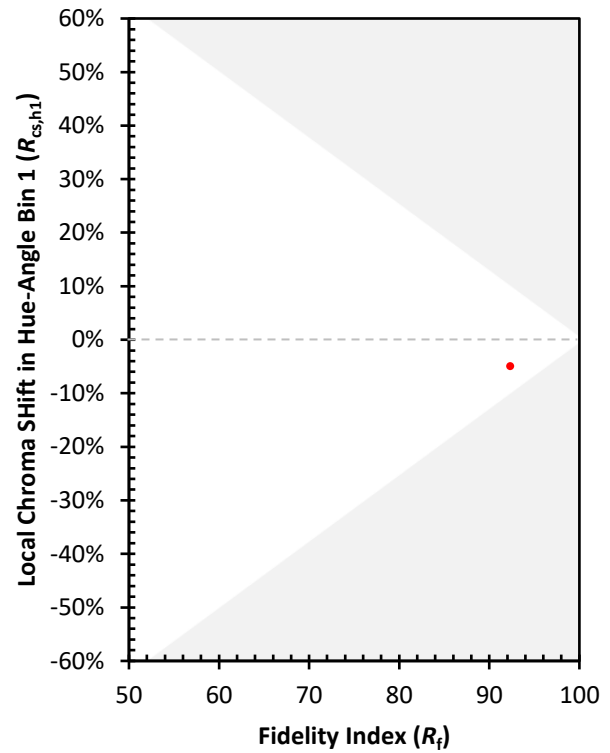
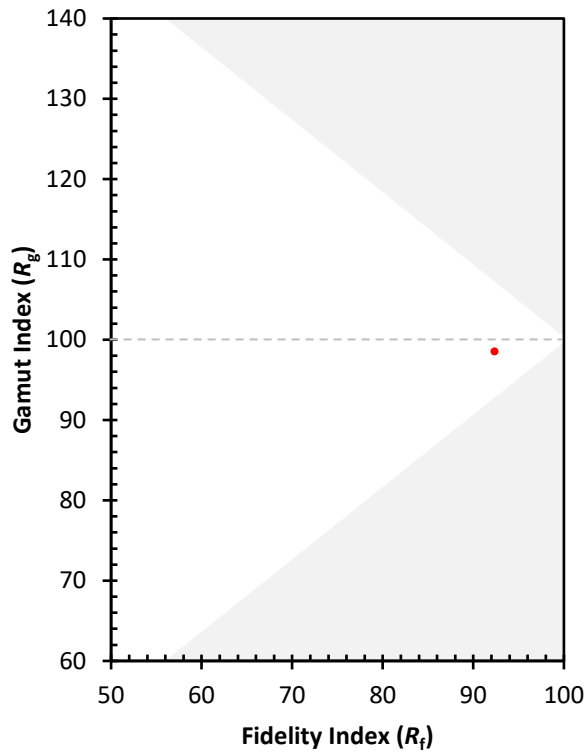
CES01 = 86	CES26 = 93	CES51 = 97	CES76 = 88
CES02 = 62	CES27 = 93	CES52 = 98	CES77 = 91
CES03 = 31	CES28 = 96	CES53 = 96	CES78 = 85
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 96
CES05 = 50	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 87
CES07 = 42	CES32 = 91	CES57 = 93	CES82 = 97
CES08 = 41	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 75	CES35 = 97	CES60 = 94	CES85 = 85
CES11 = 58	CES36 = 86	CES61 = 93	CES86 = 87
CES12 = 64	CES37 = 95	CES62 = 91	CES87 = 92
CES13 = 43	CES38 = 92	CES63 = 93	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 47	CES41 = 98	CES66 = 89	CES91 = 78
CES17 = 49	CES42 = 96	CES67 = 88	CES92 = 81
CES18 = 56	CES43 = 96	CES68 = 89	CES93 = 89
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 81
CES20 = 66	CES45 = 98	CES70 = 87	CES95 = 85
CES21 = 86	CES46 = 97	CES71 = 84	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 95	CES97 = 95
CES23 = 91	CES48 = 93	CES73 = 83	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 94	CES99 = 91
CES25 = 71	CES50 = 98	CES75 = 85	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)