

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: P1049577

Luminaire Tested: **GALN-SA3A-730-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049577
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9722.1 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 81.4
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

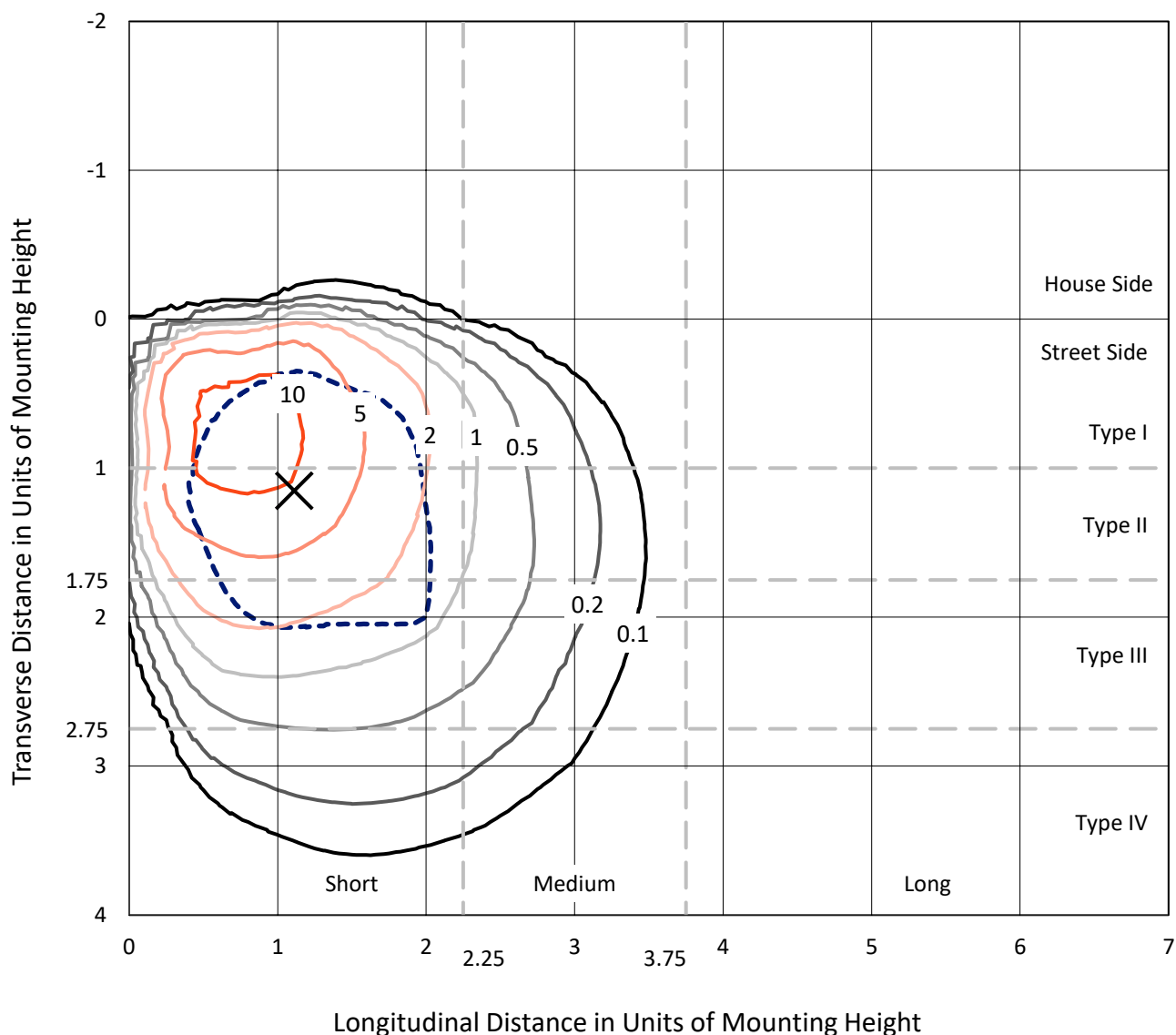
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

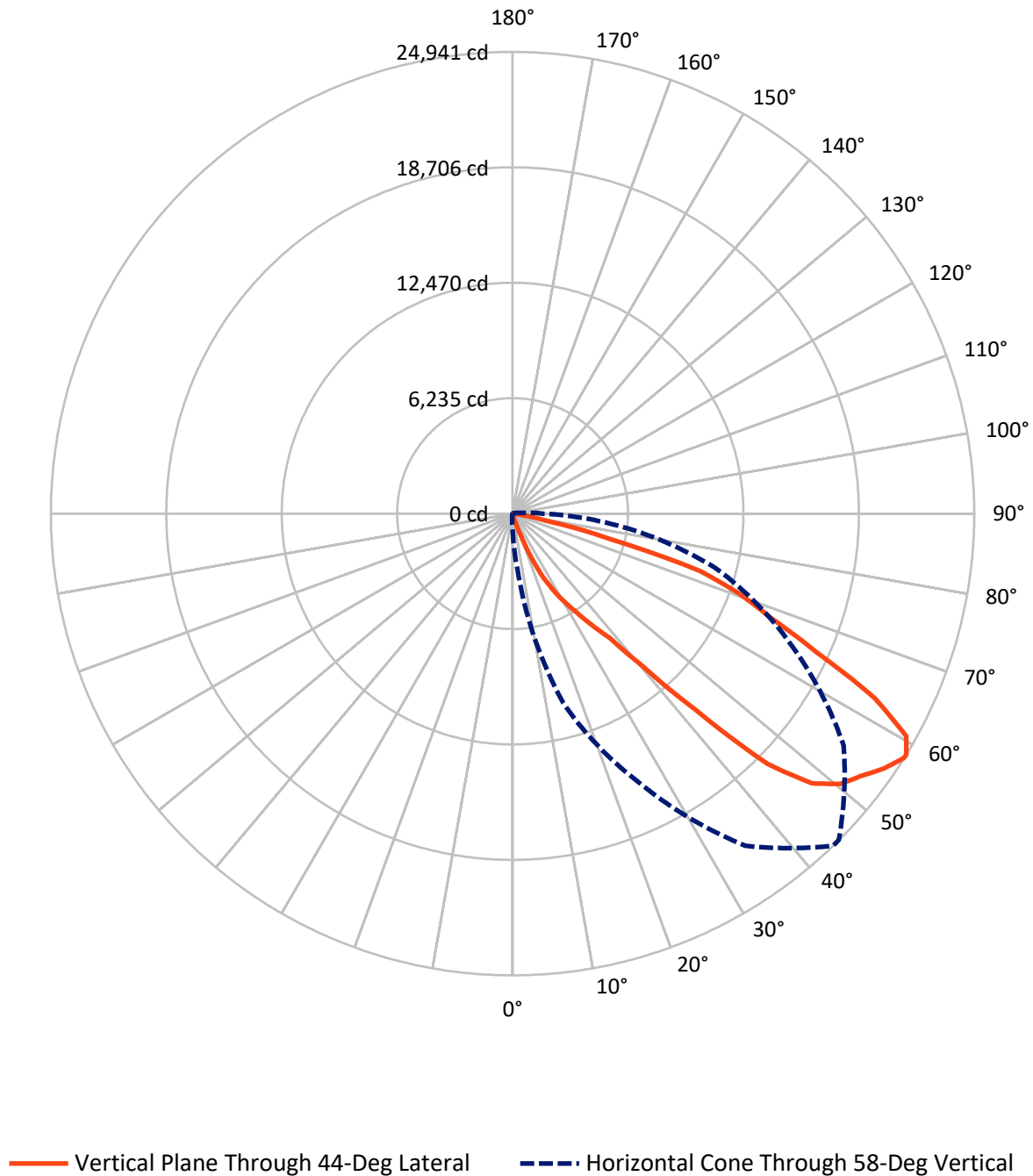


Based on 20 foot mounting height. Maximum calculated value = 16.9 fc

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	66.4	0.0	66.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	9655.7	0.0	9655.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	9722.1	0.0	9722.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.0
10°-20°	21.3	0.2
20°-30°	230.3	2.4
30°-40°	681.1	7.0
40°-50°	2030.1	20.9
50°-60°	3221.3	33.1
60°-70°	2687.0	27.6
70°-80°	828.7	8.5
80°-90°	18.4	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°	9722.1	100.0
0°-180°	9722.1	100.0



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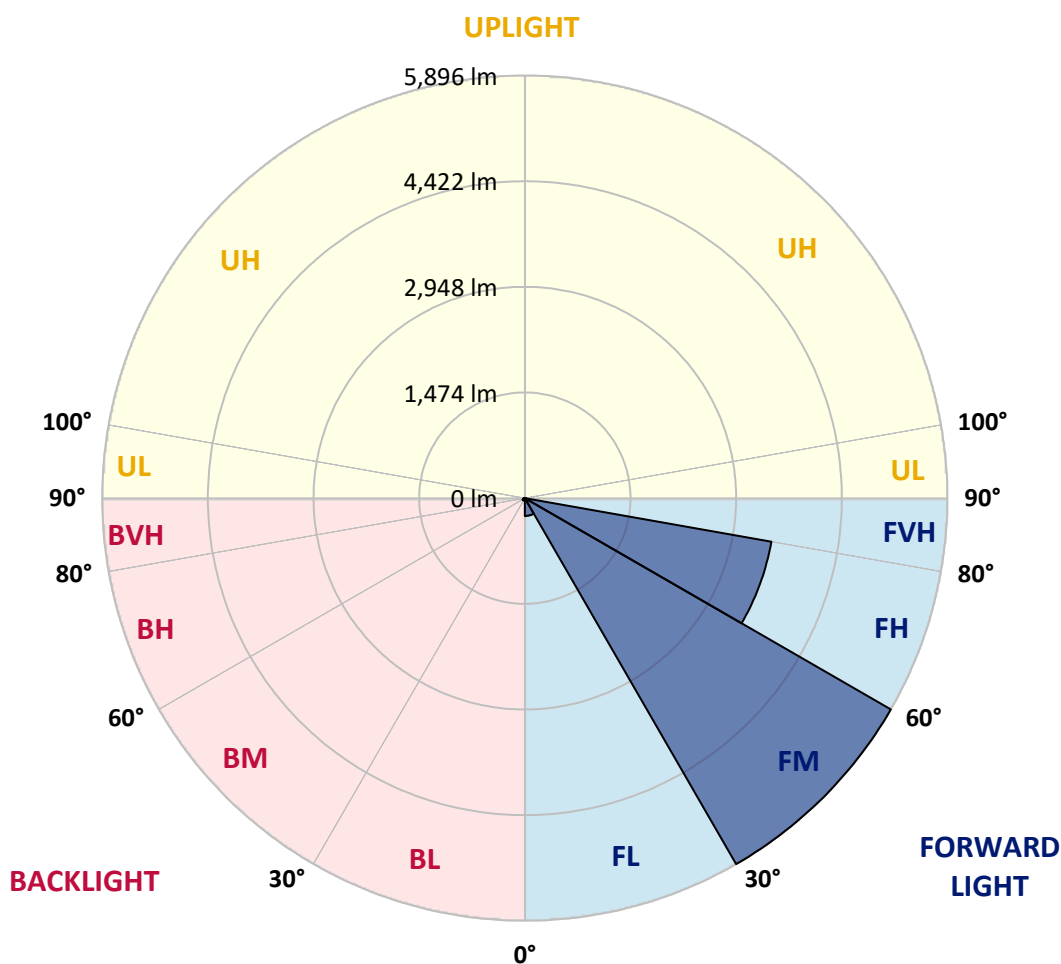
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	248.9	2.6			
FM	(30°-60°)	5896.2	60.6			
FH	(60°-80°)	3493.0	35.9			G2/5000
FVH	(80°-90°)	17.5	0.2			G1/100
BL	(0°-30°)	6.5	0.1	B0/110		
BM	(30°-60°)	36.3	0.4	B0/220		
BH	(60°-80°)	22.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
2.5°	55.1	55.1	52.9	49.9	47.0	44.1	43.3	41.9	41.1	40.4
5°	57.3	57.3	56.6	54.3	51.4	49.2	49.2	47.0	45.5	44.1
7.5°	58.8	59.5	61.0	60.2	58.8	56.6	56.6	55.1	52.9	49.2
10°	61.0	63.2	66.1	67.6	68.3	68.3	67.6	66.8	63.2	58.0
12.5°	63.2	67.6	74.9	82.3	86.7	92.5	91.8	90.3	80.8	69.8
15°	67.6	74.2	89.6	110.9	143.9	164.5	172.6	165.2	133.7	94.0
17.5°	72.7	83.7	130.0	232.1	380.4	450.9	493.5	459.0	304.0	178.5
20°	77.8	102.1	241.6	601.5	987.1	1217.7	1281.6	1181.7	758.7	340.0
22.5°	86.7	143.2	489.9	1243.4	2126.9	2472.8	2538.2	2218.7	1432.9	671.3
25°	105.0	207.8	844.6	2026.3	3174.2	3758.0	3730.8	3312.2	2324.4	1072.3
27.5°	131.5	302.6	1277.2	2878.9	4177.4	4692.2	4753.9	4236.1	3098.5	1576.8
30°	169.7	419.4	1741.3	3561.9	4981.6	5538.3	5548.5	5013.1	3791.1	2019.7
32.5°	206.4	529.5	2147.4	4222.2	5774.0	6384.3	6429.8	5771.1	4308.1	2480.9
35°	234.3	601.5	2558.7	4802.4	6573.0	7414.0	7411.0	6628.9	4920.6	2892.9
37.5°	236.5	673.5	2931.1	5395.8	7585.1	8526.6	8619.9	7757.7	5660.9	3402.6
40°	231.3	754.2	3402.6	6321.1	9408.6	10853.2	10935.5	9848.6	7145.9	4275.1
42.5°	237.2	894.5	4167.8	8030.1	12436.6	14511.4	14670.0	13527.3	9875.7	6055.3
45°	268.1	1158.2	5771.1	10889.2	16752.8	19282.2	19229.3	17583.5	13052.1	8765.3
47.5°	370.1	1803.7	8147.6	13671.9	19511.3	21763.8	21809.3	19797.7	14905.8	10848.8
50°	569.2	2759.9	10144.5	15143.0	20697.4	22957.2	22914.6	20590.2	15610.1	11874.8
52.5°	740.3	3451.8	11146.3	15659.3	20849.4	23546.9	23544.0	20798.7	15719.5	11962.9
55°	782.9	3503.9	11154.4	15687.2	21190.2	24318.8	24415.8	21312.1	15861.2	11578.1
57.5°	766.0	3102.2	10688.7	15848.8	21796.8	24915.9	24921.0	21809.3	16221.1	11342.4
58°	751.3	3039.0	10594.7	15940.6	21901.1	24940.9	24928.4	21832.1	16514.1	11333.6
60°	669.1	2638.8	10228.3	16174.8	21746.1	24428.2	24311.5	21334.9	16470.8	11243.2
62.5°	525.8	2058.6	9867.7	15903.8	20084.9	21946.6	21995.1	18888.5	15015.2	10716.6
65°	418.6	1534.2	9115.6	13950.3	16539.1	18022.6	18203.3	15359.6	12532.9	9074.5
67.5°	333.4	1109.0	7646.8	11106.6	13087.3	15041.6	15173.1	12895.7	9709.8	6952.7
70°	271.0	749.8	5278.3	8122.7	10794.5	12991.9	12999.9	10713.0	7247.2	4555.6
72.5°	240.2	519.2	3064.0	5923.8	8752.8	10586.6	10372.9	8693.3	5569.8	2698.3
75°	207.8	344.4	1502.6	3621.4	5306.9	5342.9	5424.4	4032.7	2784.2	1283.0
77.5°	171.1	244.6	591.9	989.3	1591.5	2037.3	2112.9	1601.0	926.1	315.8
80°	117.5	116.0	159.4	303.3	455.3	570.6	532.5	412.0	242.4	121.2
82.5°	50.7	55.1	72.0	86.7	70.5	68.3	65.4	41.9	32.3	25.0
85°	16.2	14.7	15.4	15.4	12.5	9.5	9.5	4.4	0.0	0.0
87.5°	8.1	6.6	6.6	5.9	3.7	1.5	0.7	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°
42.6	0°	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
39.7	2.5°	38.9	38.9	37.5	36.0	35.3	33.8	33.0	32.3	31.6	30.8
42.6	5°	41.1	40.4	38.2	36.0	33.8	31.6	30.1	28.6	27.2	26.4
47.0	7.5°	44.8	43.3	38.9	35.3	32.3	29.4	27.9	25.7	24.2	22.0
52.1	10°	49.2	46.3	40.4	36.0	31.6	27.9	25.7	23.5	21.3	18.4
59.5	12.5°	55.1	49.9	42.6	35.3	30.1	25.7	23.5	20.6	18.4	16.2
69.0	15°	60.2	53.6	43.3	35.3	28.6	23.5	20.6	17.6	15.4	12.5
86.7	17.5°	67.6	56.6	42.6	33.0	26.4	20.6	17.6	15.4	11.8	7.3
128.5	20°	80.1	58.8	41.1	30.8	22.8	16.9	13.2	10.3	5.1	1.5
193.2	22.5°	99.9	64.6	39.7	27.9	19.8	13.2	8.8	3.7	0.0	0.0
293.8	25°	138.1	74.9	39.7	26.4	17.6	9.5	2.9	0.0	0.0	0.0
417.1	27.5°	183.6	88.9	39.7	22.8	14.0	5.1	0.0	0.0	0.0	0.0
568.4	30°	229.9	104.3	39.7	19.8	11.0	0.7	0.0	0.0	0.0	0.0
699.9	32.5°	273.9	117.5	40.4	16.9	7.3	0.0	0.0	0.0	0.0	0.0
882.0	35°	318.7	119.7	39.7	14.7	4.4	0.0	0.0	0.0	0.0	0.0
1105.3	37.5°	376.0	115.3	37.5	13.2	2.2	0.0	0.0	0.0	0.0	0.0
1454.1	40°	462.7	117.5	35.3	12.5	0.7	0.0	0.0	0.0	0.0	0.0
2076.2	42.5°	622.8	127.1	32.3	12.5	0.0	0.0	0.0	0.0	0.0	0.0
3307.1	45°	1076.7	170.4	29.4	13.2	0.0	0.0	0.0	0.0	0.0	0.0
4964.7	47.5°	1781.0	306.3	28.6	13.2	0.0	0.0	0.0	0.0	0.0	0.0
5980.4	50°	2273.0	385.6	30.1	14.0	0.0	0.0	0.0	0.0	0.0	0.0
6107.4	52.5°	2269.4	429.6	31.6	14.7	2.9	0.0	0.0	0.0	0.0	0.0
5629.3	55°	2017.4	437.7	33.8	16.2	9.5	0.0	0.0	0.0	0.0	0.0
4837.6	57.5°	1686.2	399.5	38.9	19.8	17.6	0.0	0.0	0.0	0.0	0.0
4713.5	58°	1627.5	381.9	40.4	20.6	19.1	0.0	0.0	0.0	0.0	0.0
4088.5	60°	1333.7	311.4	51.4	25.7	25.7	0.0	0.0	0.0	0.0	0.0
3351.9	62.5°	921.0	271.7	58.8	33.0	26.4	0.0	0.0	0.0	0.0	0.0
2471.3	65°	651.4	245.3	63.9	35.3	21.3	0.0	0.0	0.0	0.0	0.0
1756.0	67.5°	486.9	226.2	70.5	36.0	11.0	0.0	0.0	0.0	0.0	0.0
1101.6	70°	373.1	212.2	86.7	38.2	2.9	0.0	0.0	0.0	0.0	0.0
656.6	72.5°	304.0	196.1	105.0	39.7	0.0	0.0	0.0	0.0	0.0	0.0
393.6	75°	251.9	177.0	101.3	43.3	0.0	0.0	0.0	0.0	0.0	0.0
210.0	77.5°	167.4	137.3	92.5	43.3	0.0	0.0	0.0	0.0	0.0	0.0
74.9	80°	58.8	54.3	72.0	38.2	0.0	0.0	0.0	0.0	0.0	0.0
15.4	82.5°	8.8	7.3	10.3	13.2	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°
42.6	0°	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
30.1	2.5°	30.1	30.1	29.4	30.1	30.1	31.6	35.3	40.4	46.3	48.5
25.7	5°	25.0	24.2	23.5	23.5	23.5	25.7	28.6	34.5	41.1	44.1
21.3	7.5°	20.6	19.8	19.1	18.4	18.4	19.8	23.5	30.1	36.7	39.7
17.6	10°	16.9	15.4	14.7	14.0	14.0	15.4	19.1	25.7	33.0	36.0
14.7	12.5°	14.0	11.8	10.3	9.5	8.8	11.0	14.7	20.6	28.6	32.3
11.0	15°	9.5	7.3	5.1	4.4	3.7	5.9	9.5	16.2	24.2	28.6
5.9	17.5°	5.1	2.2	0.7	0.0	0.0	1.5	4.4	11.8	19.8	23.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	14.7	18.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.8	12.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	6.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
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	2.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.9
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°
42.6	0°	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
50.7	2.5°	52.1	51.4	49.9	48.5	48.5	48.5	50.7	52.9	55.1	55.1
45.5	5°	48.5	48.5	47.7	46.3	46.3	47.0	49.9	53.6	56.6	57.3
41.9	7.5°	44.8	46.3	44.8	44.1	44.8	45.5	48.5	52.9	57.3	58.8
38.9	10°	42.6	43.3	43.3	42.6	42.6	44.1	47.0	52.9	58.8	61.0
35.3	12.5°	39.7	41.1	40.4	40.4	40.4	41.9	45.5	52.1	60.2	63.2
31.6	15°	36.7	38.9	38.9	38.2	38.2	38.9	44.1	51.4	62.4	67.6
27.2	17.5°	33.8	36.0	36.7	35.3	35.3	36.7	41.9	51.4	63.9	72.7
22.0	20°	27.9	31.6	33.8	31.6	31.6	33.0	38.2	48.5	64.6	77.8
16.2	22.5°	22.0	25.7	28.6	27.9	27.9	28.6	35.3	46.3	65.4	86.7
9.5	25°	16.2	19.8	22.0	23.5	23.5	25.7	32.3	44.8	68.3	105.0
4.4	27.5°	9.5	14.0	16.9	18.4	19.1	22.0	30.1	43.3	73.4	131.5
0.0	30°	4.4	8.1	11.8	14.7	14.7	19.8	27.9	41.9	80.1	169.7
0.0	32.5°	0.0	3.7	5.9	10.3	11.0	16.2	25.7	40.4	89.6	206.4
0.0	35°	0.0	0.0	2.9	8.1	8.1	13.2	23.5	38.9	104.3	234.3
0.0	37.5°	0.0	0.0	0.0	5.9	6.6	11.8	22.8	38.2	107.2	236.5
0.0	40°	0.0	0.0	0.0	4.4	5.1	11.0	22.8	38.9	96.9	231.3
0.0	42.5°	0.0	0.0	0.0	2.9	3.7	11.0	22.8	40.4	87.4	237.2
0.0	45°	0.0	0.0	0.0	2.2	2.9	11.8	22.0	39.7	82.3	268.1
0.0	47.5°	0.0	0.0	0.0	2.9	4.4	11.8	21.3	38.9	83.0	370.1
0.0	50°	0.0	0.0	0.0	3.7	5.1	11.8	22.0	37.5	91.1	569.2
0.0	52.5°	0.0	0.0	0.0	2.9	4.4	13.2	24.2	36.7	99.1	740.3
0.0	55°	0.0	0.0	0.0	0.7	2.2	16.9	26.4	36.7	111.6	782.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	19.1	30.1	38.9	132.2	766.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	19.1	30.8	38.9	133.7	751.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	19.1	33.8	43.3	143.9	669.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	16.2	40.4	54.3	149.8	525.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	13.2	47.7	59.5	154.2	418.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	12.5	49.2	60.2	156.4	333.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	13.2	48.5	64.6	163.8	271.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	14.7	44.1	71.2	163.8	240.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	15.4	41.1	80.1	149.1	207.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	14.7	40.4	93.3	132.9	171.1
0.0	80°	1.5	2.2	2.2	1.5	1.5	12.5	39.7	94.7	113.1	117.5
0.7	82.5°	4.4	5.9	5.1	3.7	3.7	11.0	35.3	79.3	58.8	50.7
4.4	85°	8.1	9.5	9.5	8.1	8.1	10.3	22.0	28.6	19.8	16.2
8.1	87.5°	11.0	12.5	12.5	11.0	11.0	10.3	9.5	8.8	8.1	8.1
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

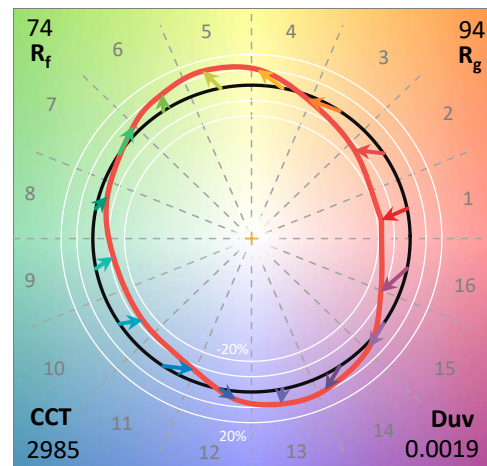
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

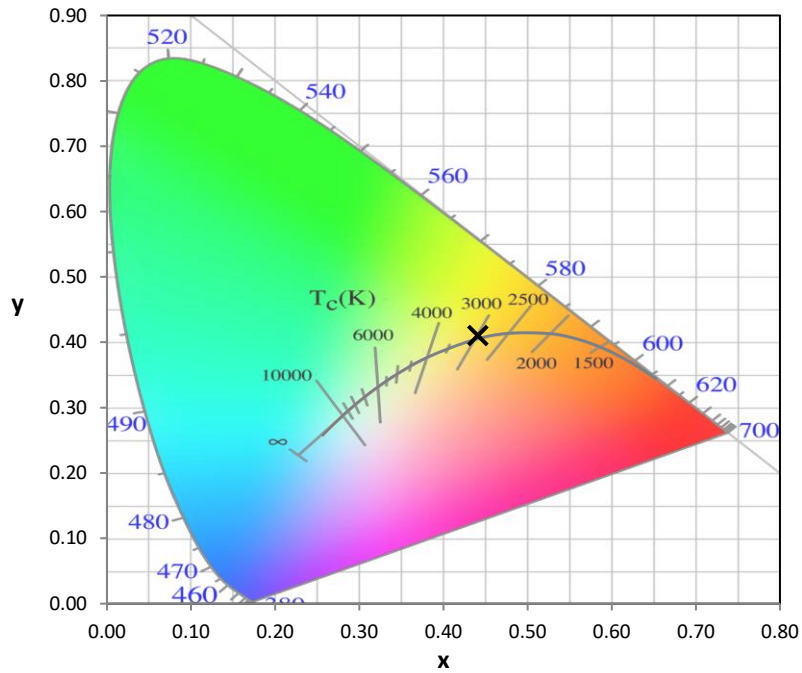
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

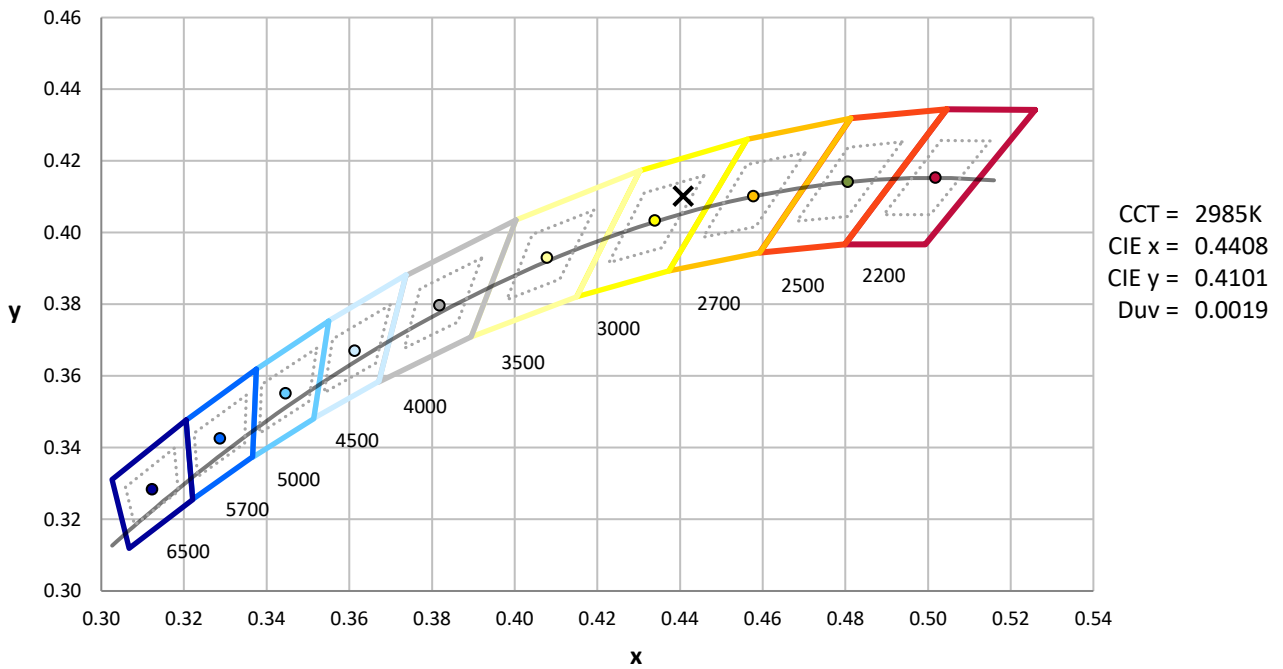
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



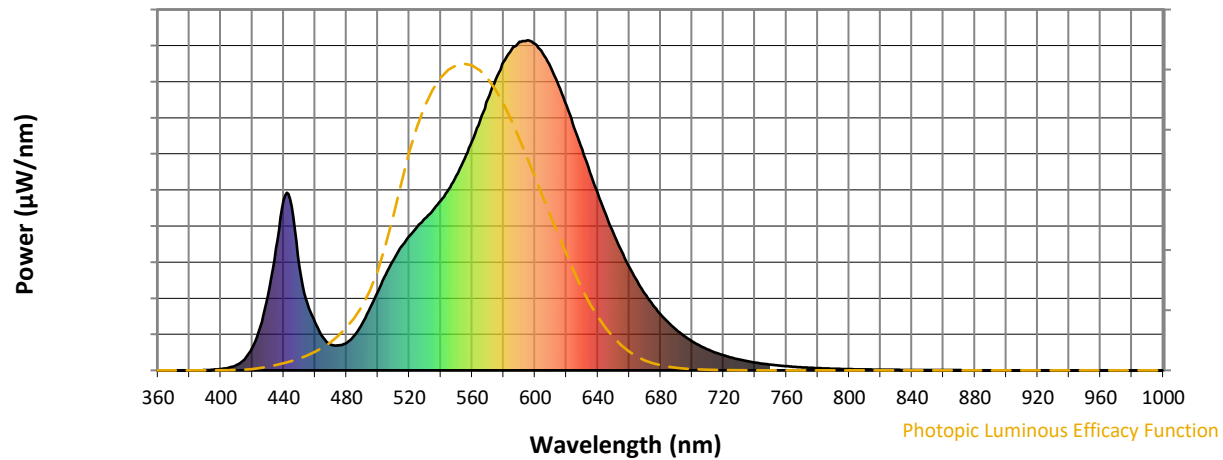
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

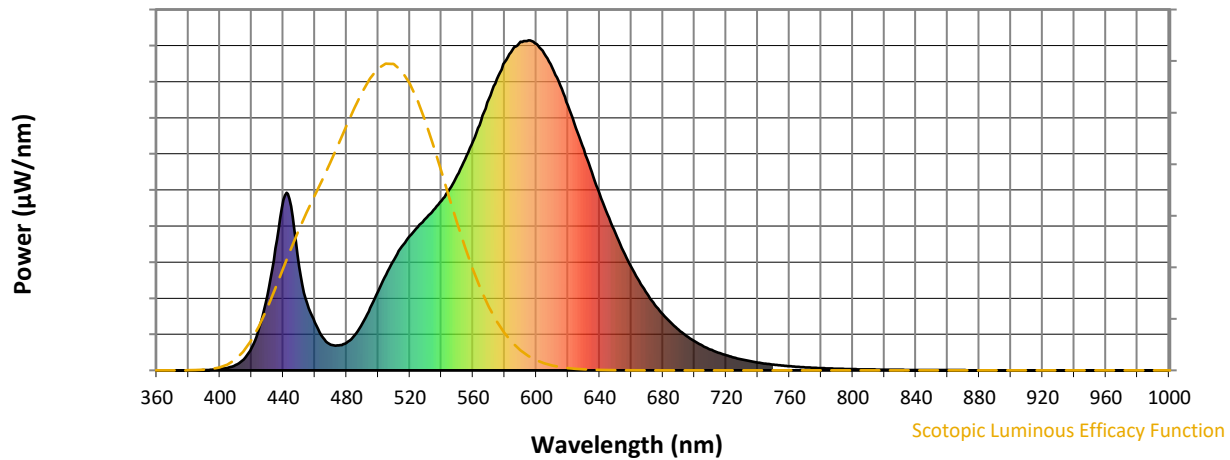


Photopic Lumens: NR

λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



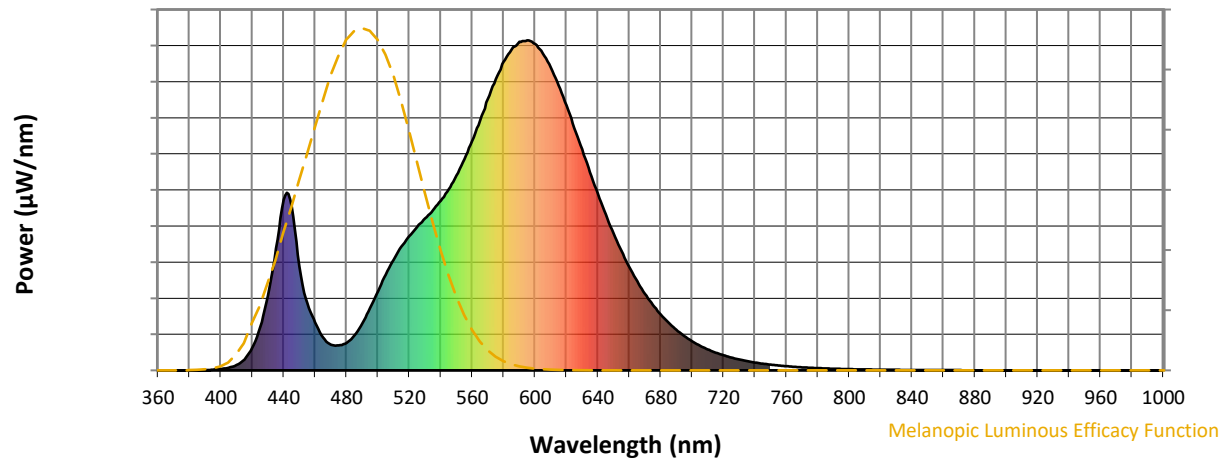
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.13

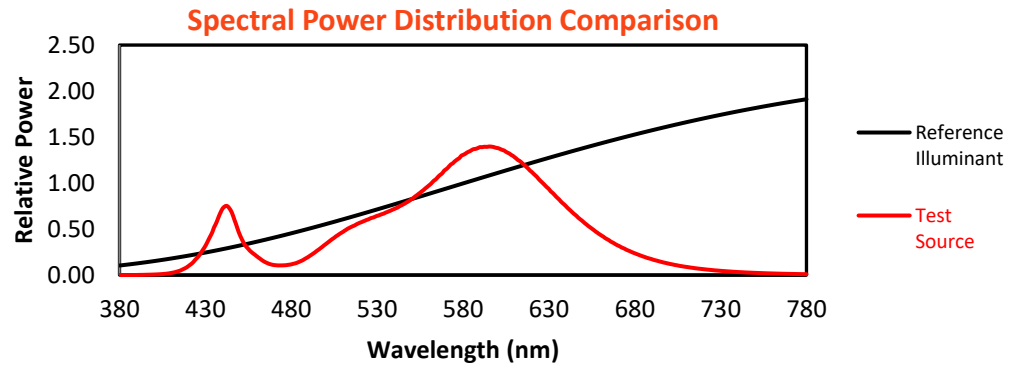
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

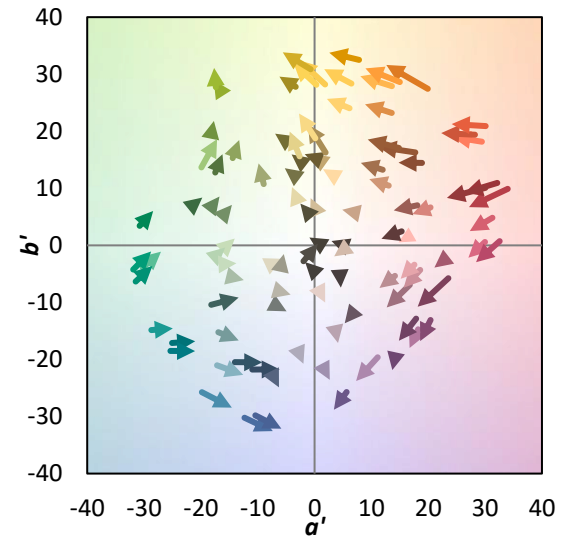
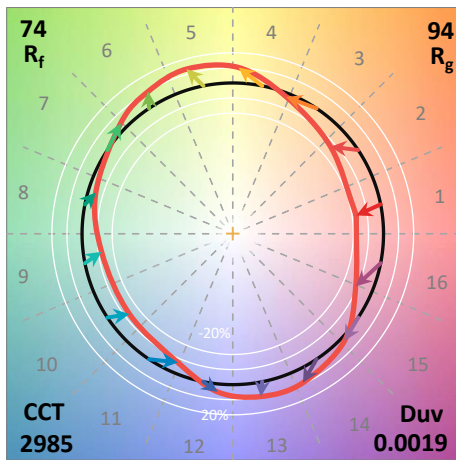
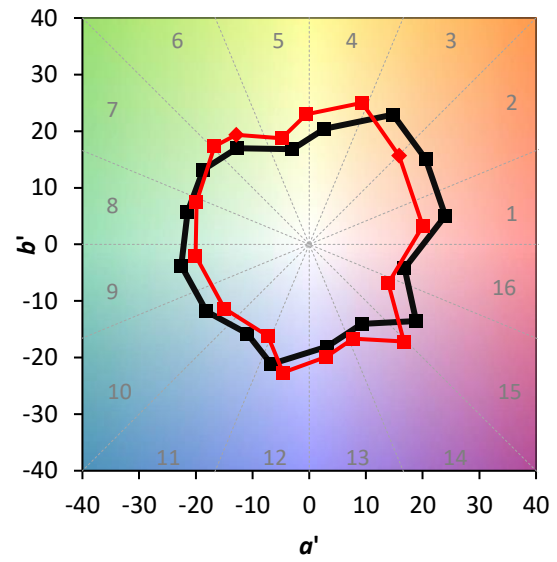
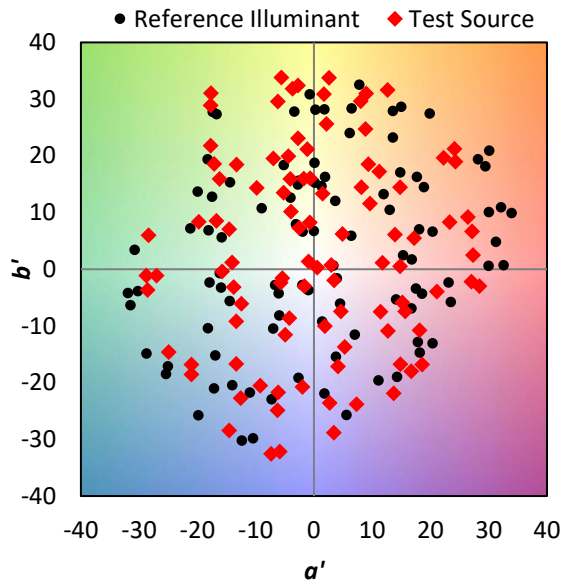
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE R_a = 70.8$
 $R_g = -43.2$

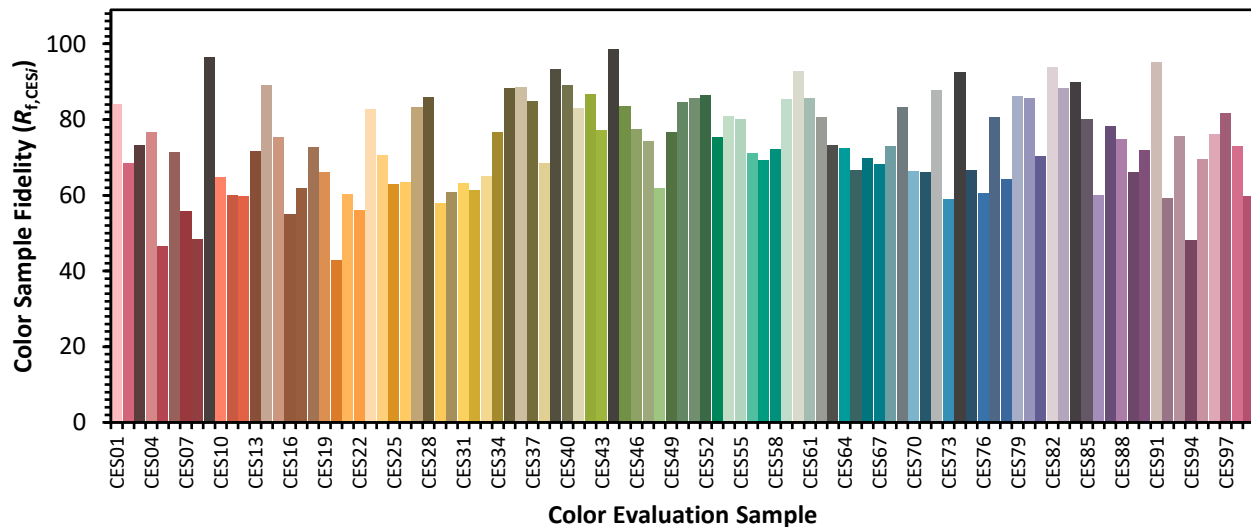


Color Vector Graphics

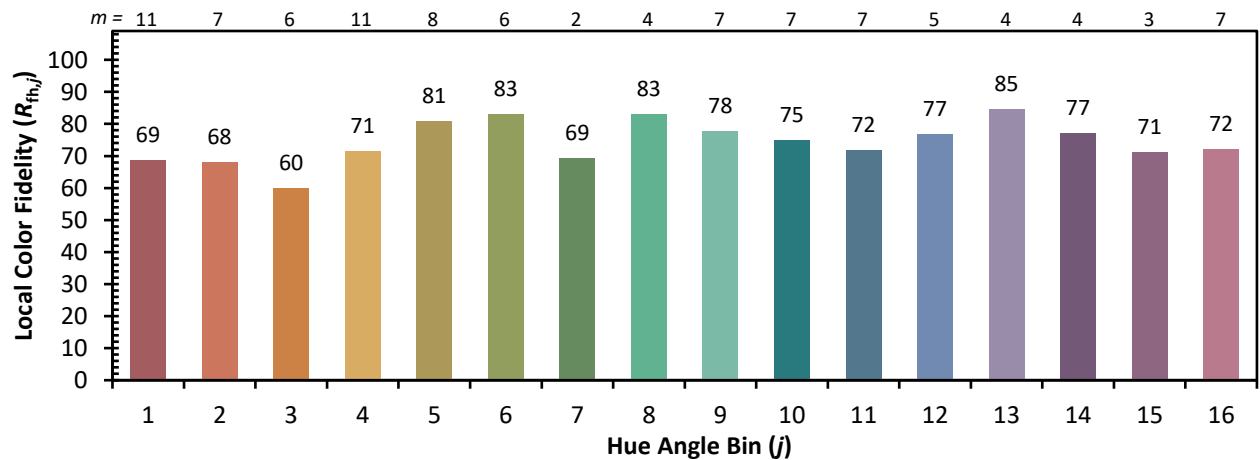
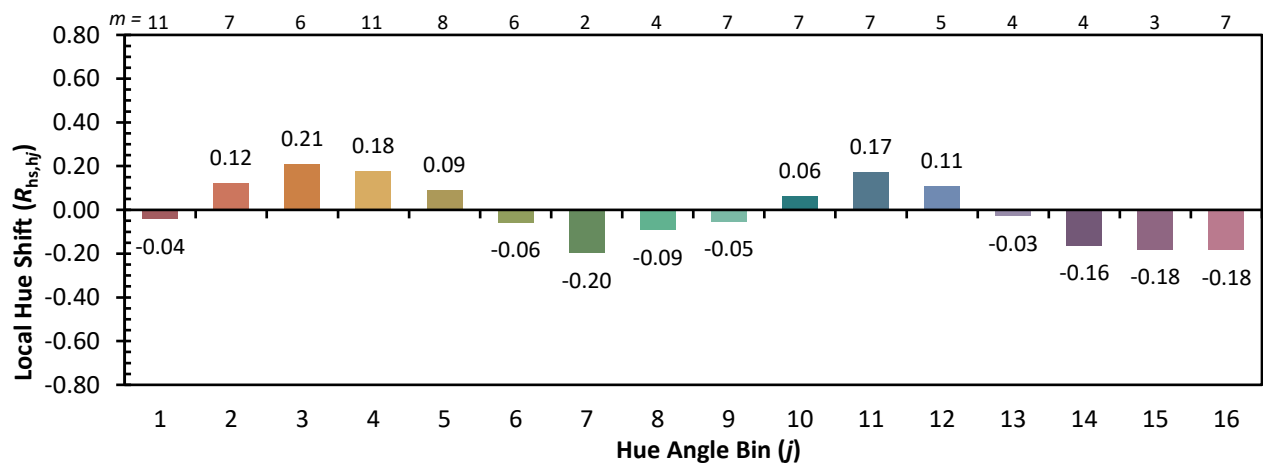
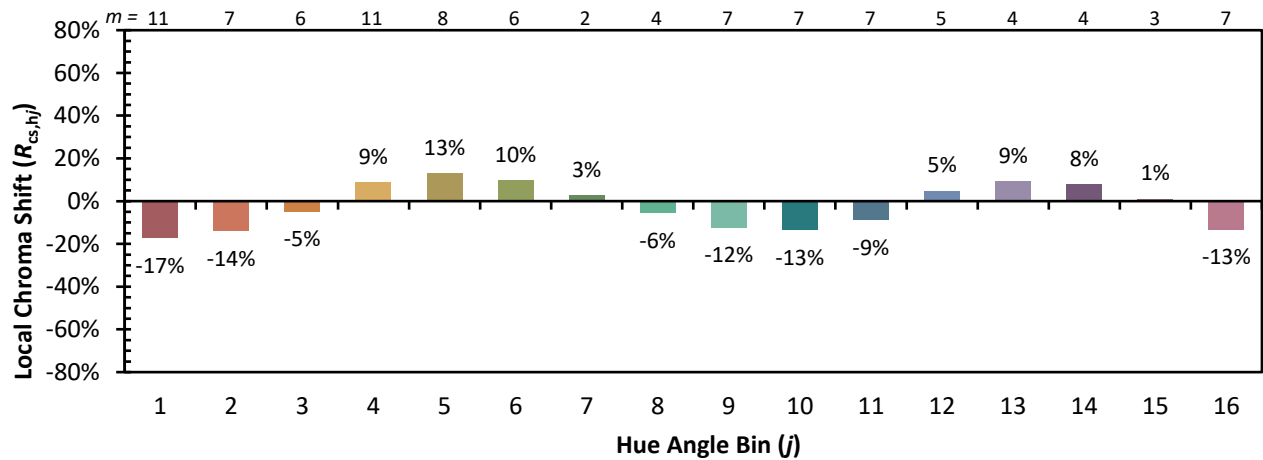


Individual Sample Fidelity Index ($R_{f,i}$)

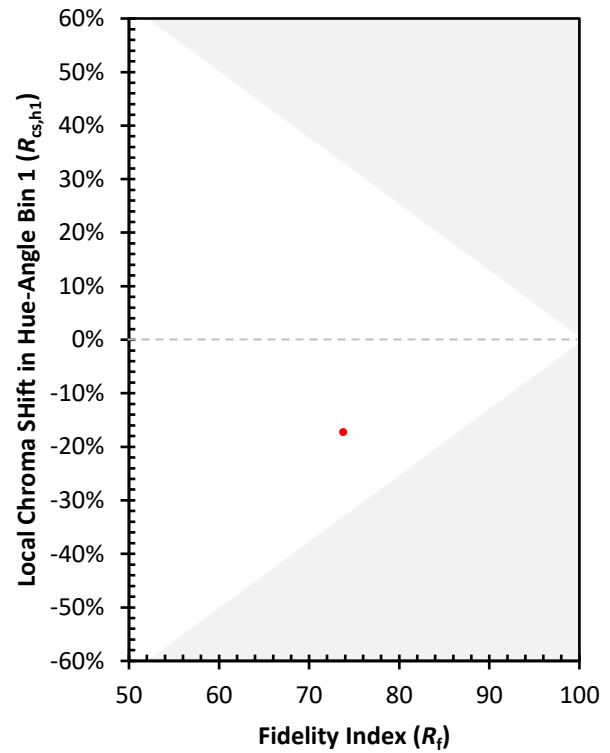
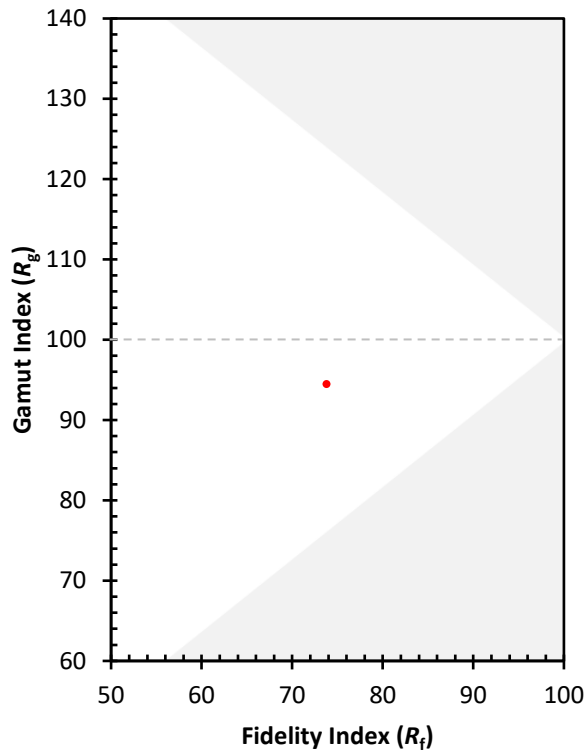
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)