

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: P1049762

Luminaire Tested: **GALN-SA4B-830-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049762
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14770.9 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 144.1
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

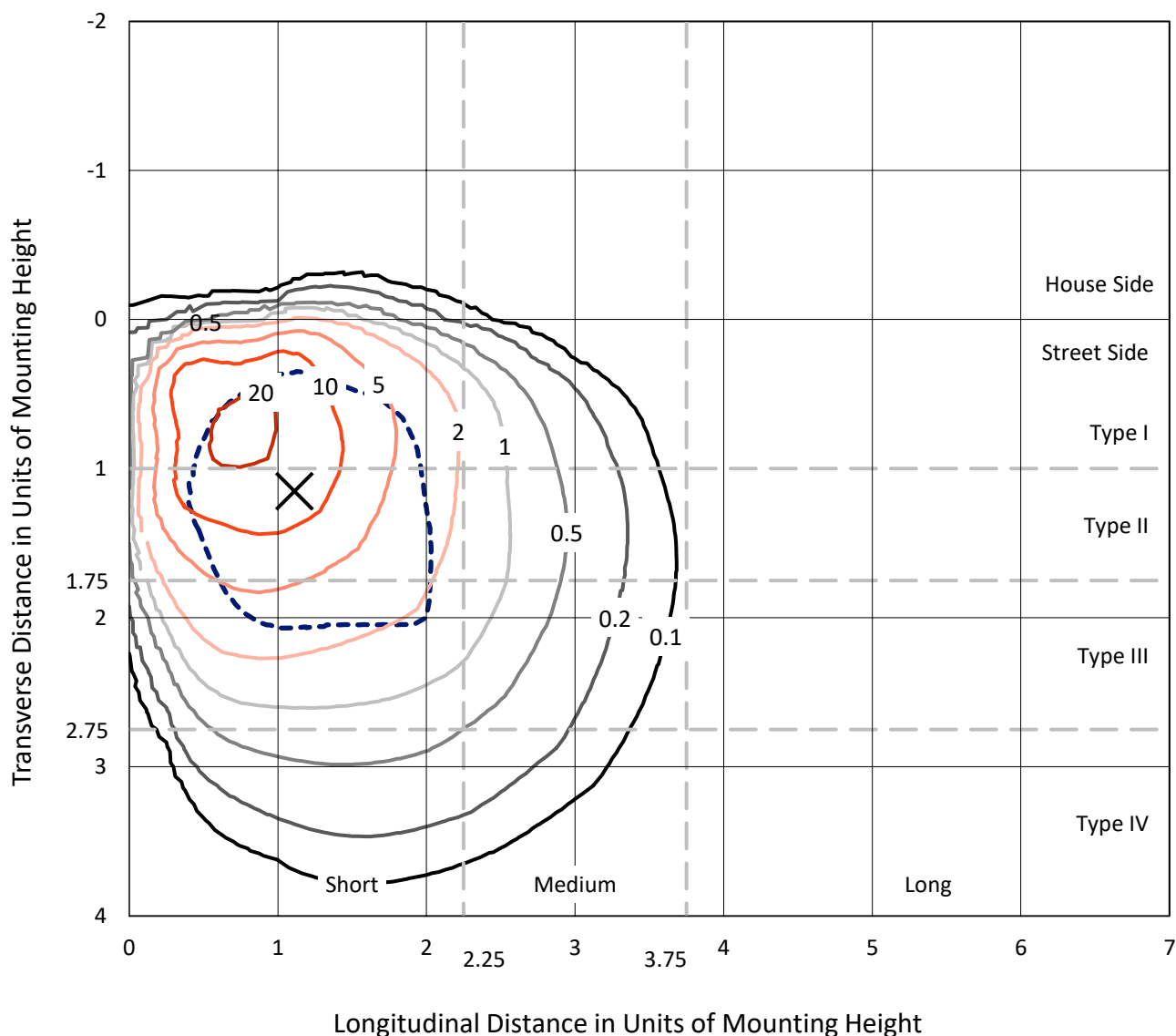
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

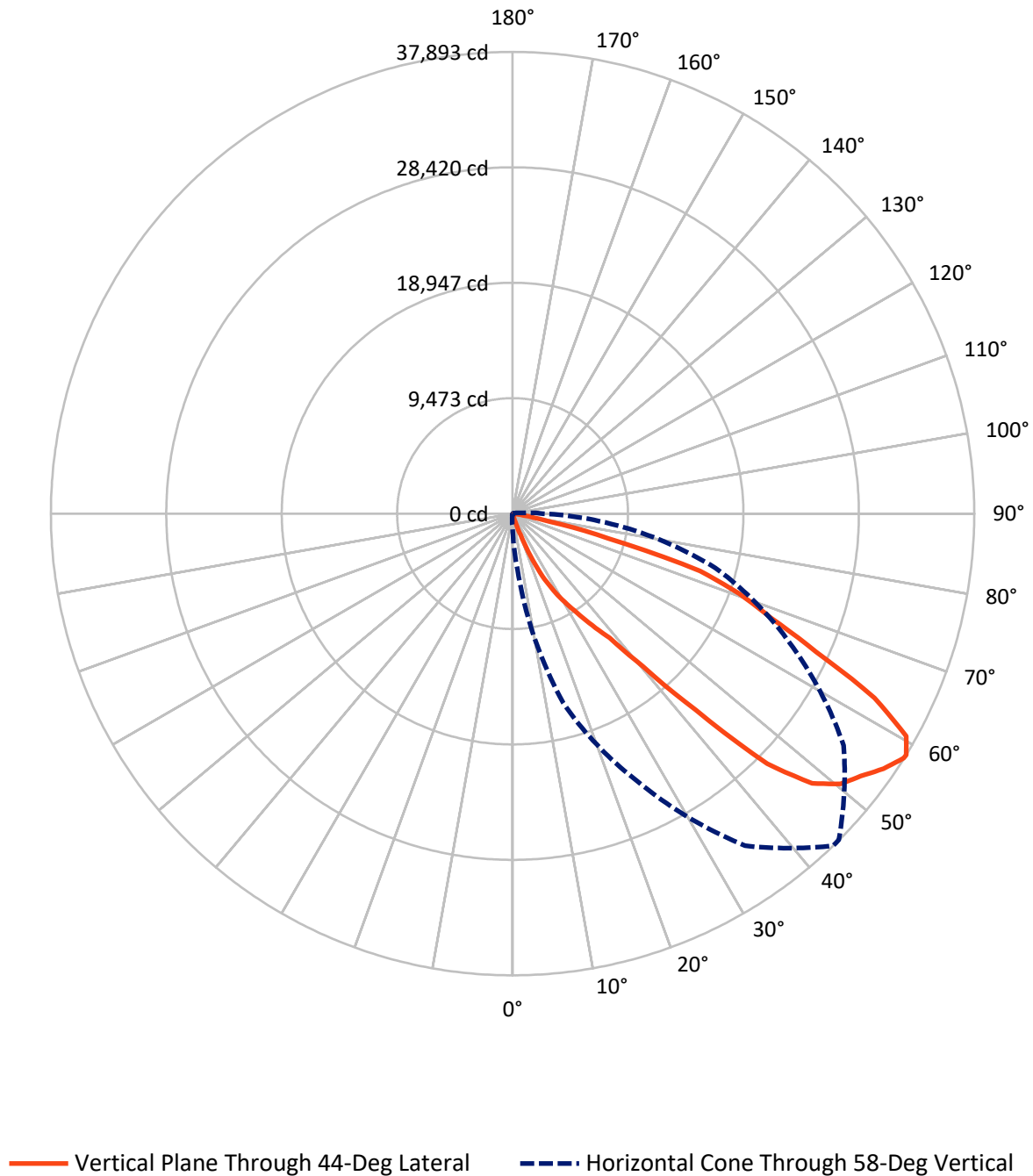


Based on 20 foot mounting height. Maximum calculated value = 25.7 fc

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	100.9	0.0	100.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14670.0	0.0	14670.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	14770.9	0.0	14770.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.0
10°-20°	32.4	0.2
20°-30°	349.9	2.4
30°-40°	1034.8	7.0
40°-50°	3084.4	20.9
50°-60°	4894.2	33.1
60°-70°	4082.3	27.6
70°-80°	1259.1	8.5
80°-90°	28.0	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°	14770.9	100.0
0°-180°	14770.9	100.0

Coefficient of Utilization



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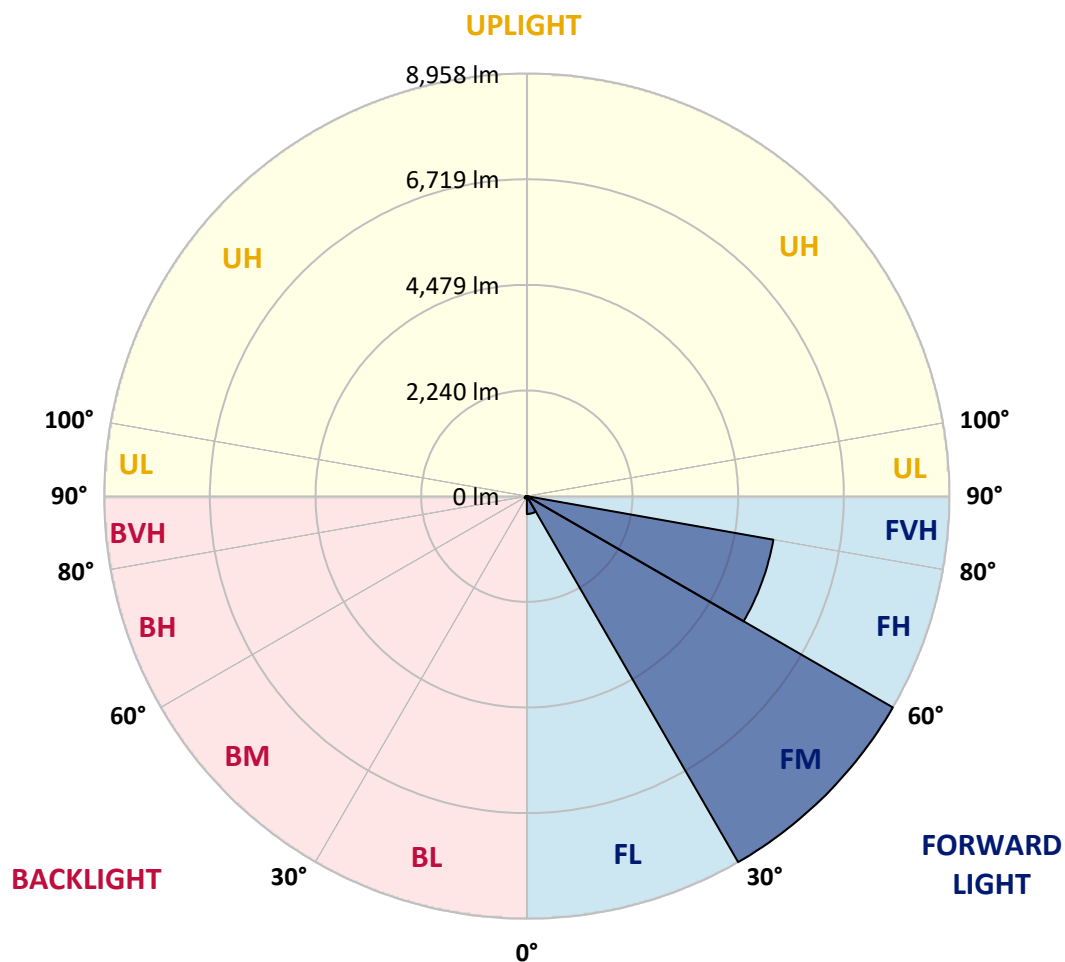
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	378.2	2.6			
FM	(30°-60°)	8958.2	60.6			
FH	(60°-80°)	5307.0	35.9			G3/7500
FVH	(80°-90°)	26.6	0.2			G1/100
BL	(0°-30°)	9.9	0.1	B0/110		
BM	(30°-60°)	55.2	0.4	B0/220		
BH	(60°-80°)	34.4	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°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
2.5°	83.7	83.7	80.3	75.9	71.4	66.9	65.8	63.6	62.5	61.4
5°	87.0	87.0	85.9	82.6	78.1	74.8	74.8	71.4	69.2	66.9
7.5°	89.3	90.4	92.6	91.5	89.3	85.9	85.9	83.7	80.3	74.8
10°	92.6	96.0	100.4	102.7	103.8	103.8	102.7	101.5	96.0	88.1
12.5°	96.0	102.7	113.8	125.0	131.7	140.6	139.5	137.2	122.7	106.0
15°	102.7	112.7	136.1	168.5	218.7	249.9	262.2	251.1	203.1	142.8
17.5°	110.5	127.2	197.5	352.6	578.0	685.1	749.8	697.4	461.9	271.1
20°	118.3	155.1	367.1	913.9	1499.7	1850.0	1947.1	1795.3	1152.6	516.6
22.5°	131.7	217.6	744.2	1889.1	3231.4	3756.9	3856.3	3370.9	2177.0	1019.9
25°	159.6	315.8	1283.2	3078.5	4822.5	5709.6	5668.3	5032.3	3531.6	1629.1
27.5°	199.7	459.7	1940.4	4374.0	6346.8	7128.9	7222.7	6436.0	4707.6	2395.7
30°	257.8	637.1	2645.6	5411.7	7568.6	8414.4	8430.0	7616.5	5759.8	3068.5
32.5°	313.5	804.5	3262.6	6414.8	8772.5	9699.8	9769.0	8768.1	6545.4	3769.2
35°	355.9	913.9	3887.5	7296.3	9986.5	11264.1	11259.7	10071.3	7476.0	4395.2
37.5°	359.3	1023.2	4453.2	8197.9	11524.1	12954.6	13096.3	11786.3	8600.7	5169.6
40°	351.5	1145.9	5169.6	9603.8	14294.7	16489.5	16614.5	14963.1	10856.9	6495.2
42.5°	360.4	1359.1	6332.2	12200.3	18895.2	22047.4	22288.4	20552.2	15004.4	9199.9
45°	407.3	1759.6	8768.1	16544.2	25452.8	29295.7	29215.4	26714.8	19830.3	13317.2
47.5°	562.4	2740.4	12378.8	20772.0	29643.8	33066.0	33135.2	30079.0	22646.6	16482.8
50°	864.8	4193.2	15412.7	23007.0	31445.9	34879.2	34814.5	31283.0	23716.6	18041.6
52.5°	1124.7	5244.3	16934.7	23791.4	31676.9	35775.2	35770.8	31599.9	23882.9	18175.5
55°	1189.5	5323.5	16947.0	23833.8	32194.6	36948.0	37095.2	32379.8	24098.2	17590.8
57.5°	1163.8	4713.2	16239.6	24079.3	33116.3	37855.1	37862.9	33135.2	24645.0	17232.6
58°	1141.5	4617.2	16096.7	24218.7	33274.7	37893.1	37874.1	33169.8	25090.2	17219.2
60°	1016.5	4009.1	15539.9	24574.7	33039.3	37114.2	36936.8	32414.4	25024.4	17082.0
62.5°	798.9	3127.6	14992.1	24163.0	30515.3	33343.9	33417.5	28697.6	22812.8	16282.0
65°	636.0	2330.9	13849.5	21194.9	25128.1	27382.1	27656.6	23336.1	19041.4	13787.0
67.5°	506.6	1684.9	11617.9	16874.5	19883.8	22853.0	23052.7	19592.6	14752.2	10563.4
70°	411.7	1139.2	8019.4	12340.9	16400.2	19738.8	19751.0	16276.4	11010.9	6921.4
72.5°	364.9	788.9	4655.2	9000.2	13298.3	16084.5	15759.8	13207.9	8462.3	4099.5
75°	315.8	523.3	2283.0	5502.1	8062.9	8117.5	8241.4	6126.9	4230.1	1949.3
77.5°	260.0	371.6	899.3	1503.0	2418.0	3095.3	3210.2	2432.5	1407.0	479.8
80°	178.5	176.3	242.1	460.8	691.8	867.0	809.0	626.0	368.2	184.1
82.5°	77.0	83.7	109.3	131.7	107.1	103.8	99.3	63.6	49.1	37.9
85°	24.5	22.3	23.4	23.4	19.0	14.5	14.5	6.7	0.0	0.0
87.5°	12.3	10.0	10.0	8.9	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°
64.7	0°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
60.3	2.5°	59.1	59.1	56.9	54.7	53.6	51.3	50.2	49.1	48.0	46.9
64.7	5°	62.5	61.4	58.0	54.7	51.3	48.0	45.7	43.5	41.3	40.2
71.4	7.5°	68.1	65.8	59.1	53.6	49.1	44.6	42.4	39.1	36.8	33.5
79.2	10°	74.8	70.3	61.4	54.7	48.0	42.4	39.1	35.7	32.4	27.9
90.4	12.5°	83.7	75.9	64.7	53.6	45.7	39.1	35.7	31.2	27.9	24.5
104.9	15°	91.5	81.5	65.8	53.6	43.5	35.7	31.2	26.8	23.4	19.0
131.7	17.5°	102.7	85.9	64.7	50.2	40.2	31.2	26.8	23.4	17.9	11.2
195.3	20°	121.6	89.3	62.5	46.9	34.6	25.7	20.1	15.6	7.8	2.2
293.5	22.5°	151.8	98.2	60.3	42.4	30.1	20.1	13.4	5.6	0.0	0.0
446.3	25°	209.8	113.8	60.3	40.2	26.8	14.5	4.5	0.0	0.0	0.0
633.8	27.5°	279.0	135.0	60.3	34.6	21.2	7.8	0.0	0.0	0.0	0.0
863.6	30°	349.2	158.4	60.3	30.1	16.7	1.1	0.0	0.0	0.0	0.0
1063.4	32.5°	416.2	178.5	61.4	25.7	11.2	0.0	0.0	0.0	0.0	0.0
1340.1	35°	484.3	181.9	60.3	22.3	6.7	0.0	0.0	0.0	0.0	0.0
1679.3	37.5°	571.3	175.2	56.9	20.1	3.3	0.0	0.0	0.0	0.0	0.0
2209.3	40°	703.0	178.5	53.6	19.0	1.1	0.0	0.0	0.0	0.0	0.0
3154.4	42.5°	946.2	193.0	49.1	19.0	0.0	0.0	0.0	0.0	0.0	0.0
5024.5	45°	1635.8	258.9	44.6	20.1	0.0	0.0	0.0	0.0	0.0	0.0
7542.9	47.5°	2705.8	465.3	43.5	20.1	0.0	0.0	0.0	0.0	0.0	0.0
9086.1	50°	3453.4	585.8	45.7	21.2	0.0	0.0	0.0	0.0	0.0	0.0
9279.1	52.5°	3447.9	652.8	48.0	22.3	4.5	0.0	0.0	0.0	0.0	0.0
8552.7	55°	3065.1	665.0	51.3	24.5	14.5	0.0	0.0	0.0	0.0	0.0
7349.9	57.5°	2561.9	607.0	59.1	30.1	26.8	0.0	0.0	0.0	0.0	0.0
7161.3	58°	2472.6	580.2	61.4	31.2	29.0	0.0	0.0	0.0	0.0	0.0
6211.7	60°	2026.3	473.1	78.1	39.1	39.1	0.0	0.0	0.0	0.0	0.0
5092.6	62.5°	1399.2	412.9	89.3	50.2	40.2	0.0	0.0	0.0	0.0	0.0
3754.7	65°	989.7	372.7	97.1	53.6	32.4	0.0	0.0	0.0	0.0	0.0
2667.9	67.5°	739.8	343.7	107.1	54.7	16.7	0.0	0.0	0.0	0.0	0.0
1673.7	70°	566.8	322.5	131.7	58.0	4.5	0.0	0.0	0.0	0.0	0.0
997.5	72.5°	461.9	297.9	159.6	60.3	0.0	0.0	0.0	0.0	0.0	0.0
598.1	75°	382.7	268.9	154.0	65.8	0.0	0.0	0.0	0.0	0.0	0.0
319.1	77.5°	254.4	208.7	140.6	65.8	0.0	0.0	0.0	0.0	0.0	0.0
113.8	80°	89.3	82.6	109.3	58.0	0.0	0.0	0.0	0.0	0.0	0.0
23.4	82.5°	13.4	11.2	15.6	20.1	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°
64.7	0°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
45.7	2.5°	45.7	45.7	44.6	45.7	45.7	48.0	53.6	61.4	70.3	73.6
39.1	5°	37.9	36.8	35.7	35.7	35.7	39.1	43.5	52.4	62.5	66.9
32.4	7.5°	31.2	30.1	29.0	27.9	27.9	30.1	35.7	45.7	55.8	60.3
26.8	10°	25.7	23.4	22.3	21.2	21.2	23.4	29.0	39.1	50.2	54.7
22.3	12.5°	21.2	17.9	15.6	14.5	13.4	16.7	22.3	31.2	43.5	49.1
16.7	15°	14.5	11.2	7.8	6.7	5.6	8.9	14.5	24.5	36.8	43.5
8.9	17.5°	7.8	3.3	1.1	0.0	0.0	2.2	6.7	17.9	30.1	35.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	22.3	27.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	13.4	19.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	10.0
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	3.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.9
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°
64.7	0°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
77.0	2.5°	79.2	78.1	75.9	73.6	73.6	73.6	77.0	80.3	83.7	83.7
69.2	5°	73.6	73.6	72.5	70.3	70.3	71.4	75.9	81.5	85.9	87.0
63.6	7.5°	68.1	70.3	68.1	66.9	68.1	69.2	73.6	80.3	87.0	89.3
59.1	10°	64.7	65.8	65.8	64.7	64.7	66.9	71.4	80.3	89.3	92.6
53.6	12.5°	60.3	62.5	61.4	61.4	61.4	63.6	69.2	79.2	91.5	96.0
48.0	15°	55.8	59.1	59.1	58.0	58.0	59.1	66.9	78.1	94.8	102.7
41.3	17.5°	51.3	54.7	55.8	53.6	53.6	55.8	63.6	78.1	97.1	110.5
33.5	20°	42.4	48.0	51.3	48.0	48.0	50.2	58.0	73.6	98.2	118.3
24.5	22.5°	33.5	39.1	43.5	42.4	42.4	43.5	53.6	70.3	99.3	131.7
14.5	25°	24.5	30.1	33.5	35.7	35.7	39.1	49.1	68.1	103.8	159.6
6.7	27.5°	14.5	21.2	25.7	27.9	29.0	33.5	45.7	65.8	111.6	199.7
0.0	30°	6.7	12.3	17.9	22.3	22.3	30.1	42.4	63.6	121.6	257.8
0.0	32.5°	0.0	5.6	8.9	15.6	16.7	24.5	39.1	61.4	136.1	313.5
0.0	35°	0.0	0.0	4.5	12.3	12.3	20.1	35.7	59.1	158.4	355.9
0.0	37.5°	0.0	0.0	0.0	8.9	10.0	17.9	34.6	58.0	162.9	359.3
0.0	40°	0.0	0.0	0.0	6.7	7.8	16.7	34.6	59.1	147.3	351.5
0.0	42.5°	0.0	0.0	0.0	4.5	5.6	16.7	34.6	61.4	132.8	360.4
0.0	45°	0.0	0.0	0.0	3.3	4.5	17.9	33.5	60.3	125.0	407.3
0.0	47.5°	0.0	0.0	0.0	4.5	6.7	17.9	32.4	59.1	126.1	562.4
0.0	50°	0.0	0.0	0.0	5.6	7.8	17.9	33.5	56.9	138.4	864.8
0.0	52.5°	0.0	0.0	0.0	4.5	6.7	20.1	36.8	55.8	150.6	1124.7
0.0	55°	0.0	0.0	0.0	1.1	3.3	25.7	40.2	55.8	169.6	1189.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	29.0	45.7	59.1	200.8	1163.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	29.0	46.9	59.1	203.1	1141.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	29.0	51.3	65.8	218.7	1016.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	24.5	61.4	82.6	227.6	798.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	20.1	72.5	90.4	234.3	636.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	19.0	74.8	91.5	237.7	506.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	20.1	73.6	98.2	248.8	411.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	22.3	66.9	108.2	248.8	364.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	23.4	62.5	121.6	226.5	315.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	22.3	61.4	141.7	202.0	260.0
0.0	80°	2.2	3.3	3.3	2.2	2.2	19.0	60.3	143.9	171.8	178.5
1.1	82.5°	6.7	8.9	7.8	5.6	5.6	16.7	53.6	120.5	89.3	77.0
6.7	85°	12.3	14.5	14.5	12.3	12.3	15.6	33.5	43.5	30.1	24.5
12.3	87.5°	16.7	19.0	19.0	16.7	16.7	15.6	14.5	13.4	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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

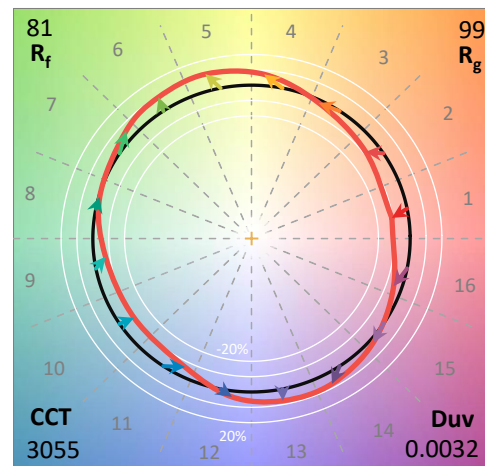
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

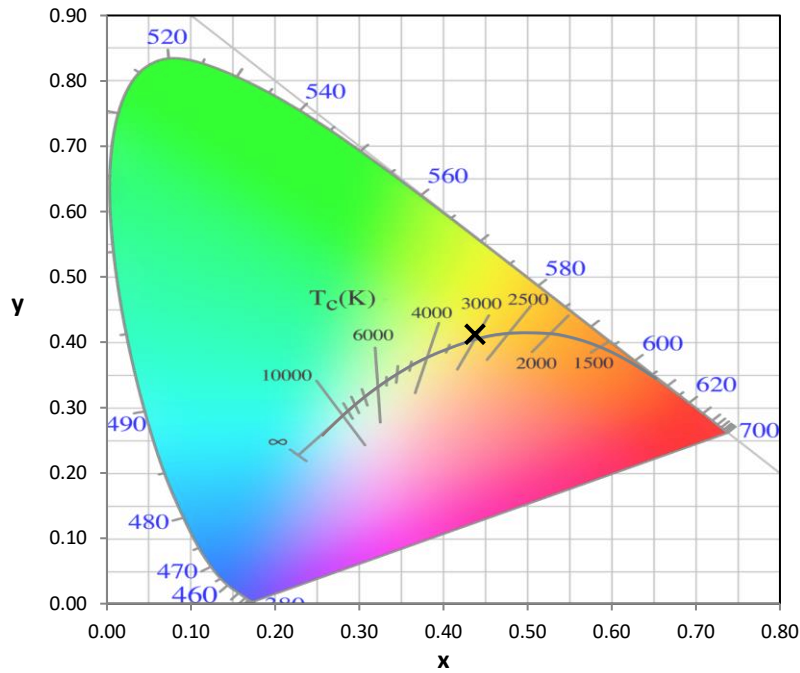
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

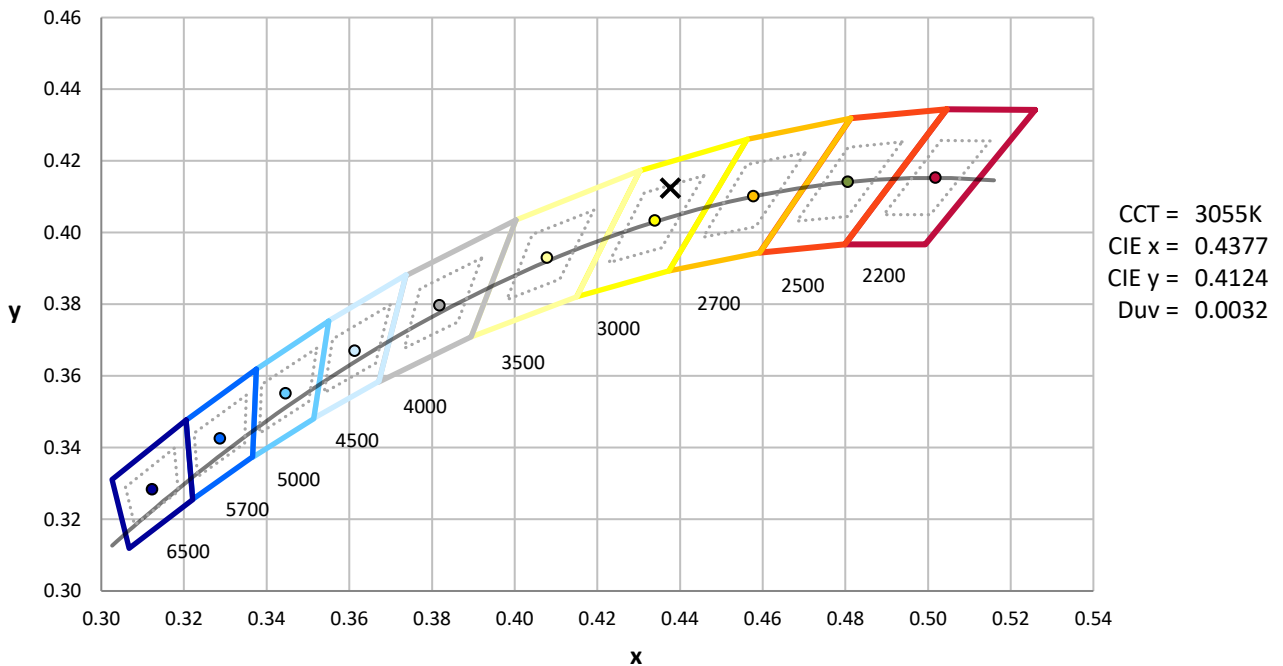
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



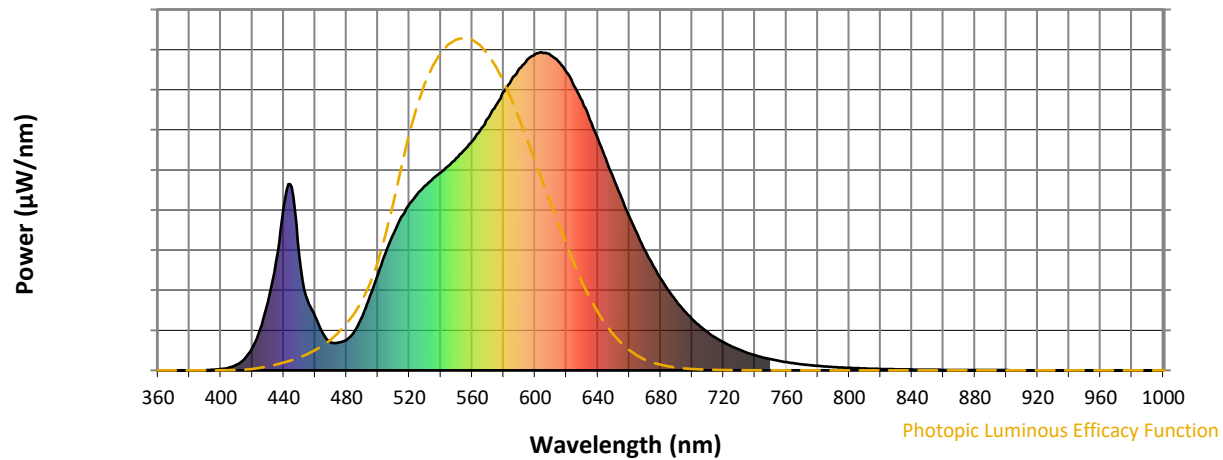
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

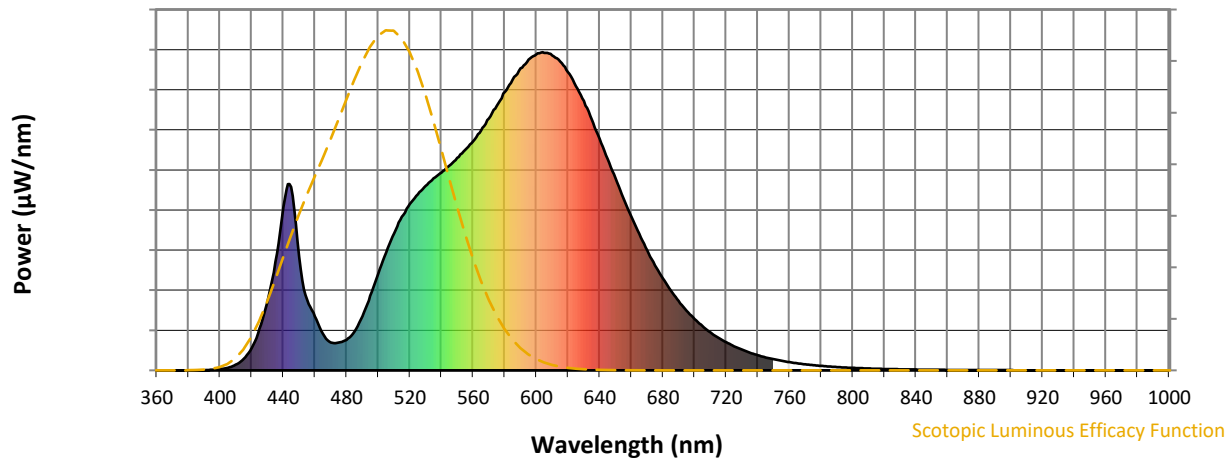


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



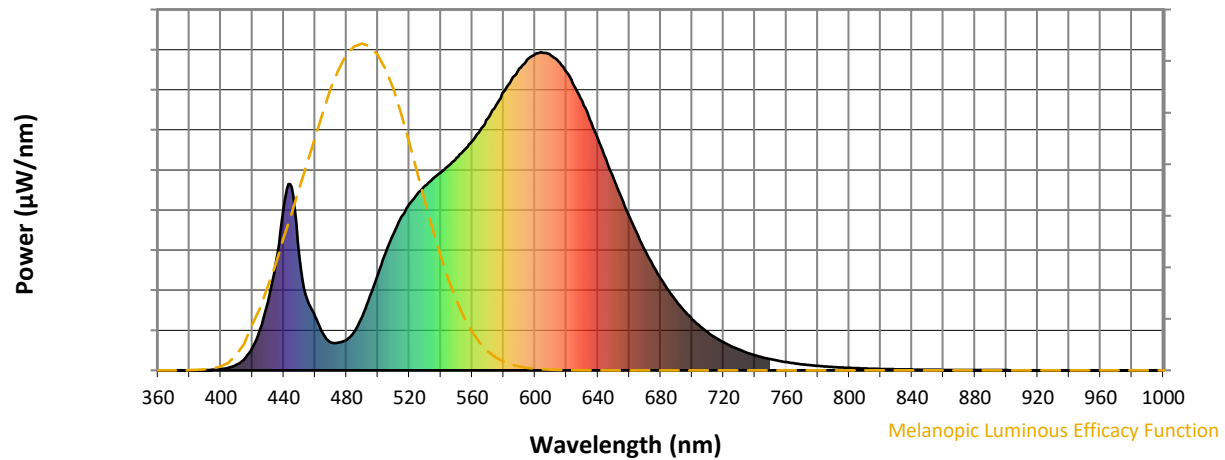
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.33

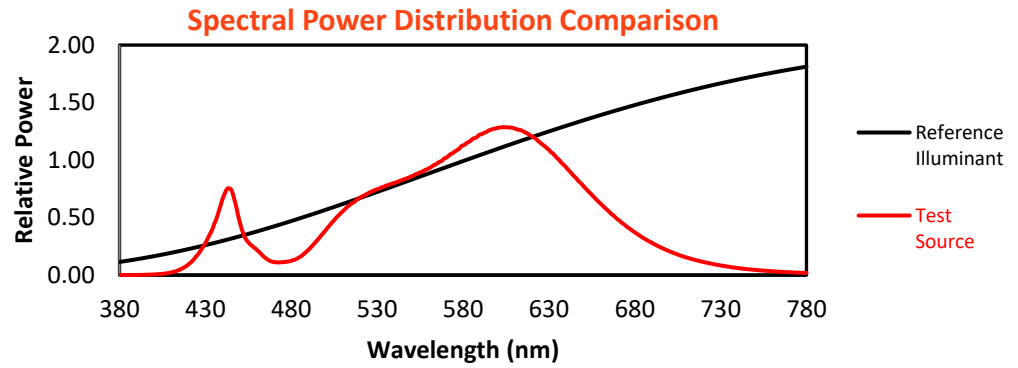
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

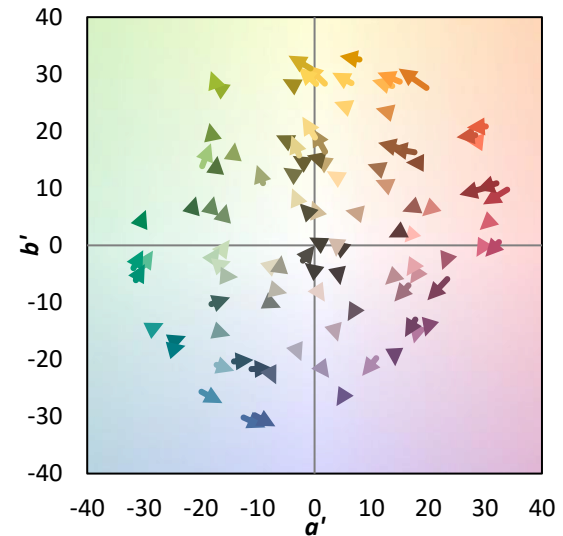
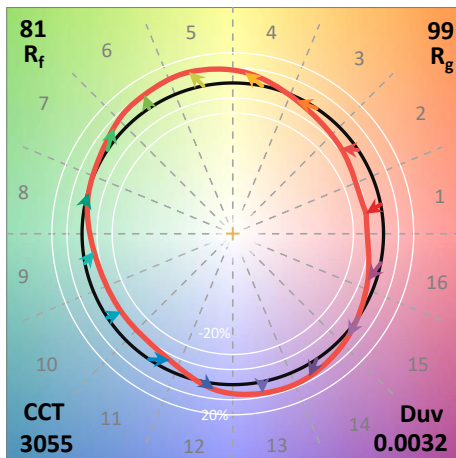
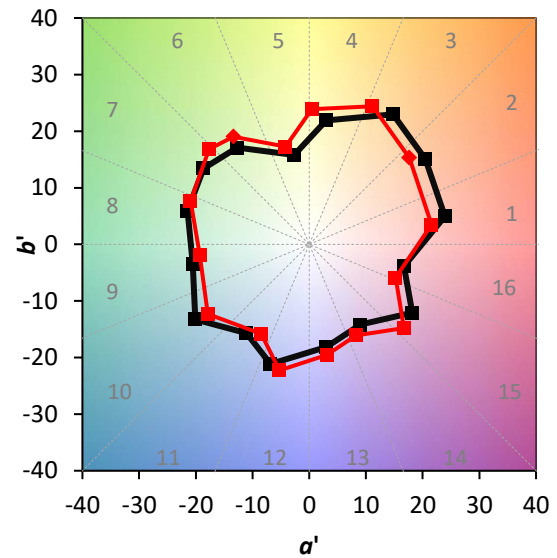
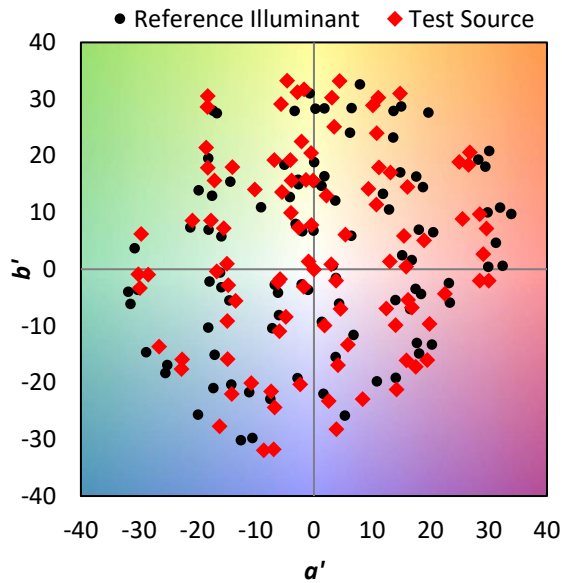
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

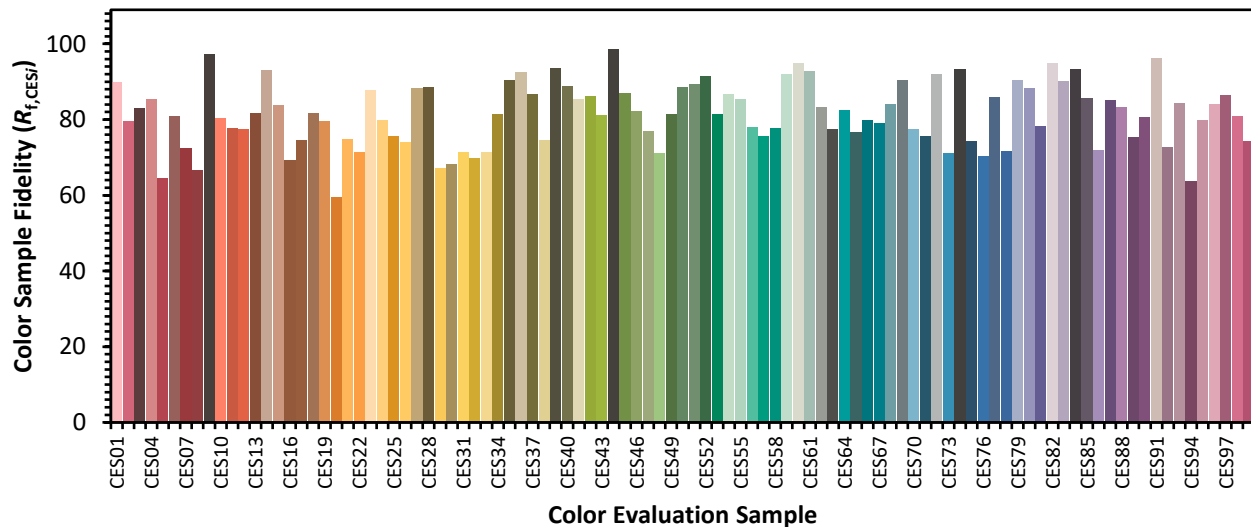


Color Vector Graphics

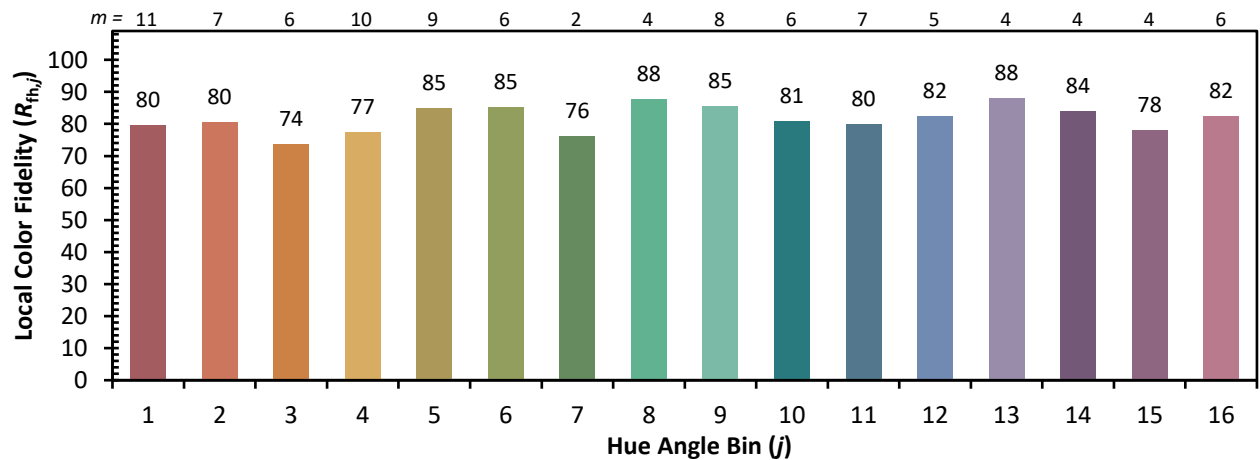
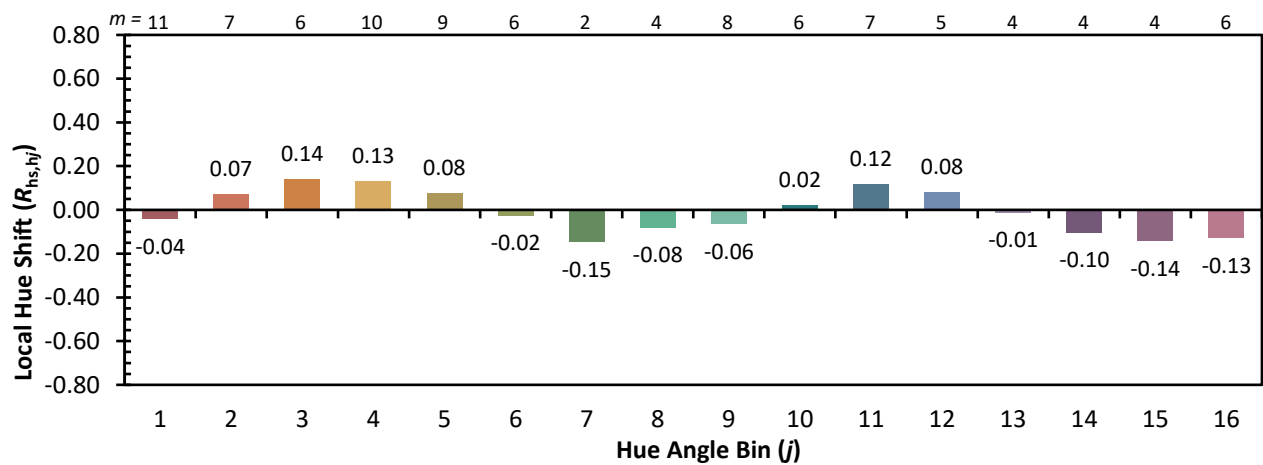
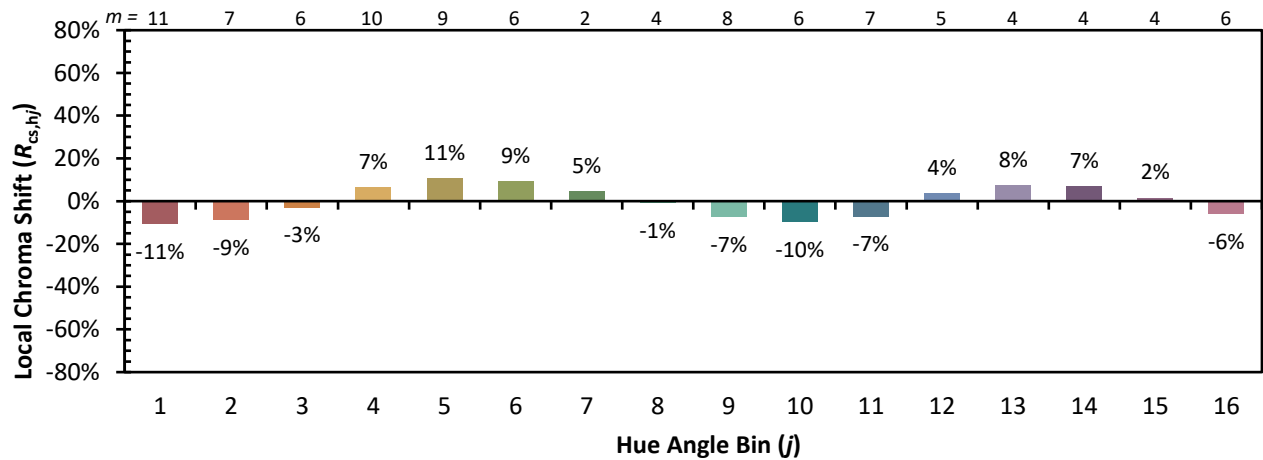


Individual Sample Fidelity Index ($R_{f,i}$)

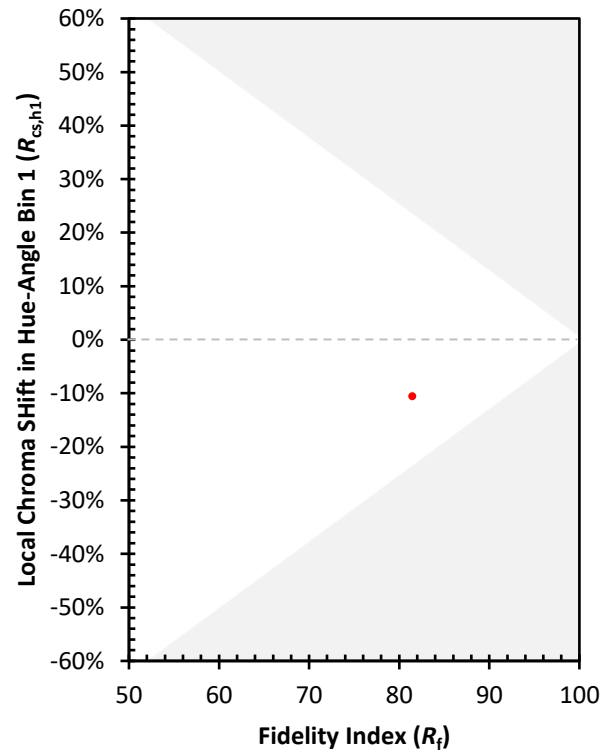
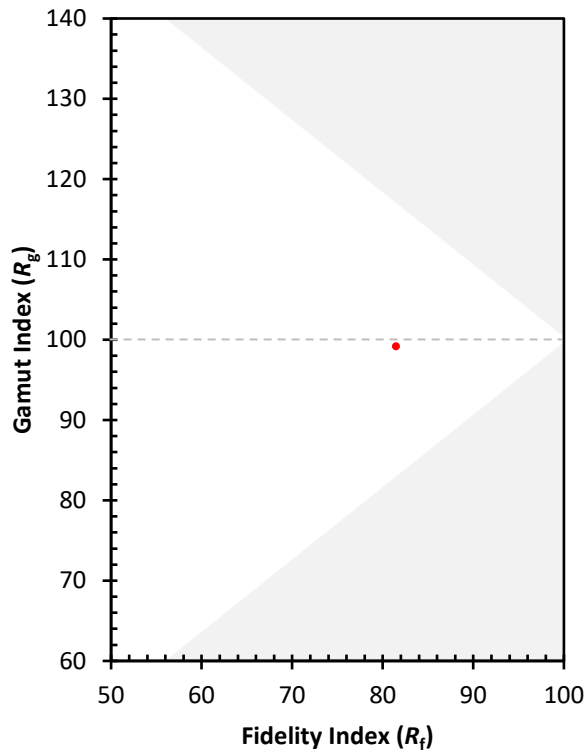
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)