

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: P1050026

Luminaire Tested: **GALN-SA7B-940-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1050026
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 7xLight Square PACKAGE
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20829.2 lumens
Efficiency: N/A
Efficacy: 83.5 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): 249.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

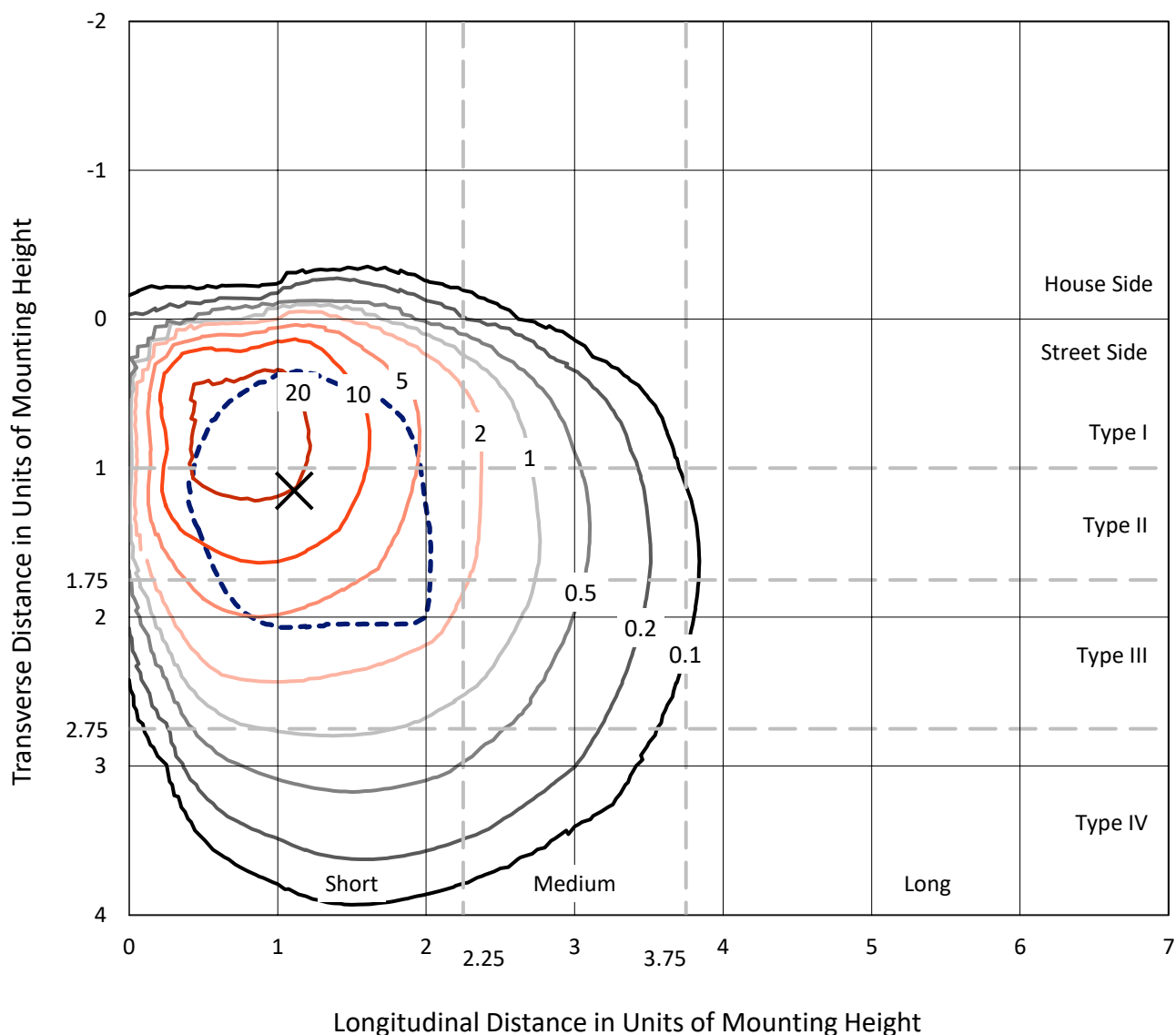
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

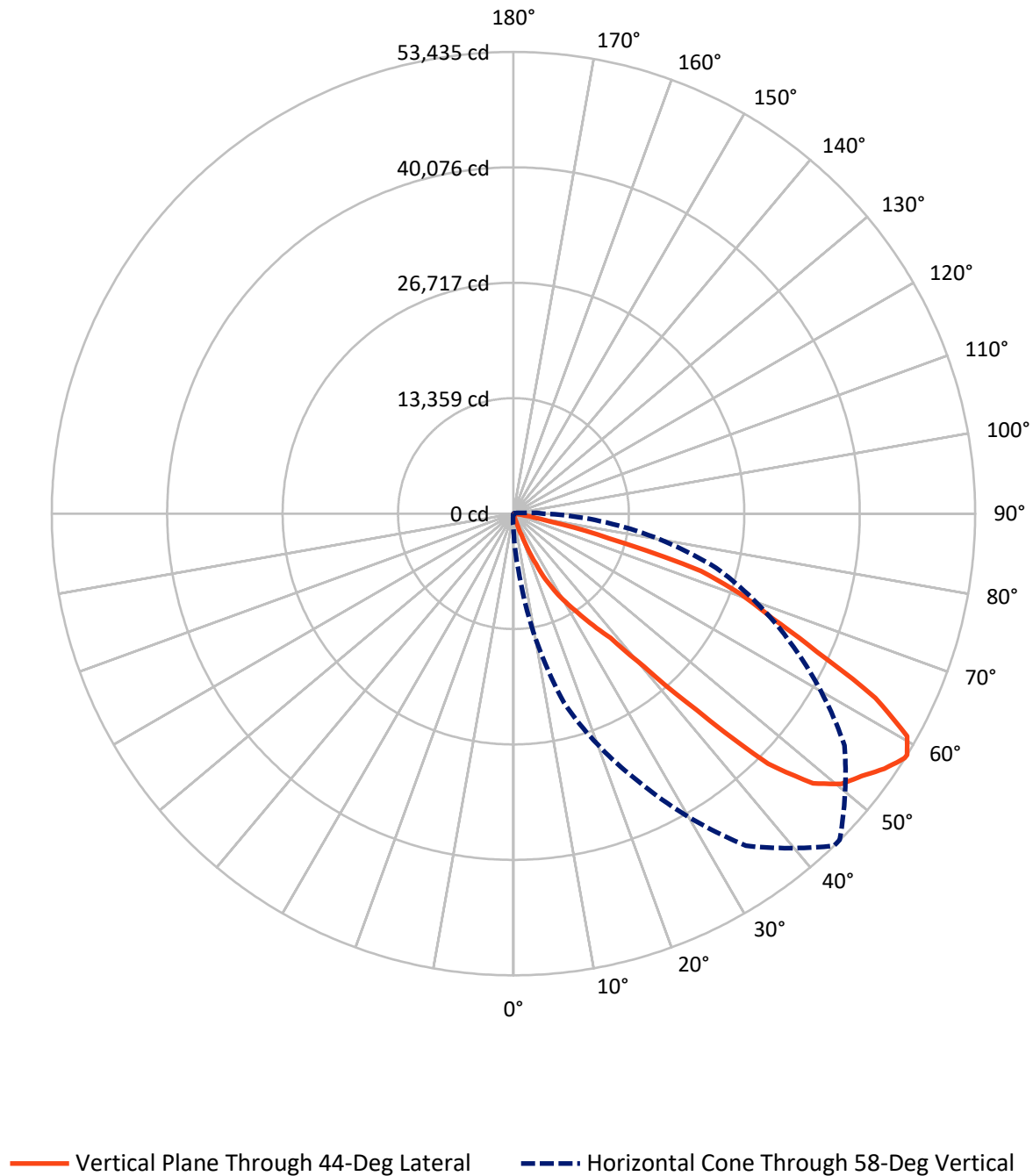


Based on 20 foot mounting height. Maximum calculated value = 36.3 fc

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	142.2	0.0	142.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	20686.9	0.0	20686.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	20829.2	0.0	20829.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.0
10°-20°	45.7	0.2
20°-30°	493.4	2.4
30°-40°	1459.3	7.0
40°-50°	4349.5	20.9
50°-60°	6901.5	33.1
60°-70°	5756.7	27.6
70°-80°	1775.5	8.5
80°-90°	39.4	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°	20829.2	100.0
0°-180°	20829.2	100.0



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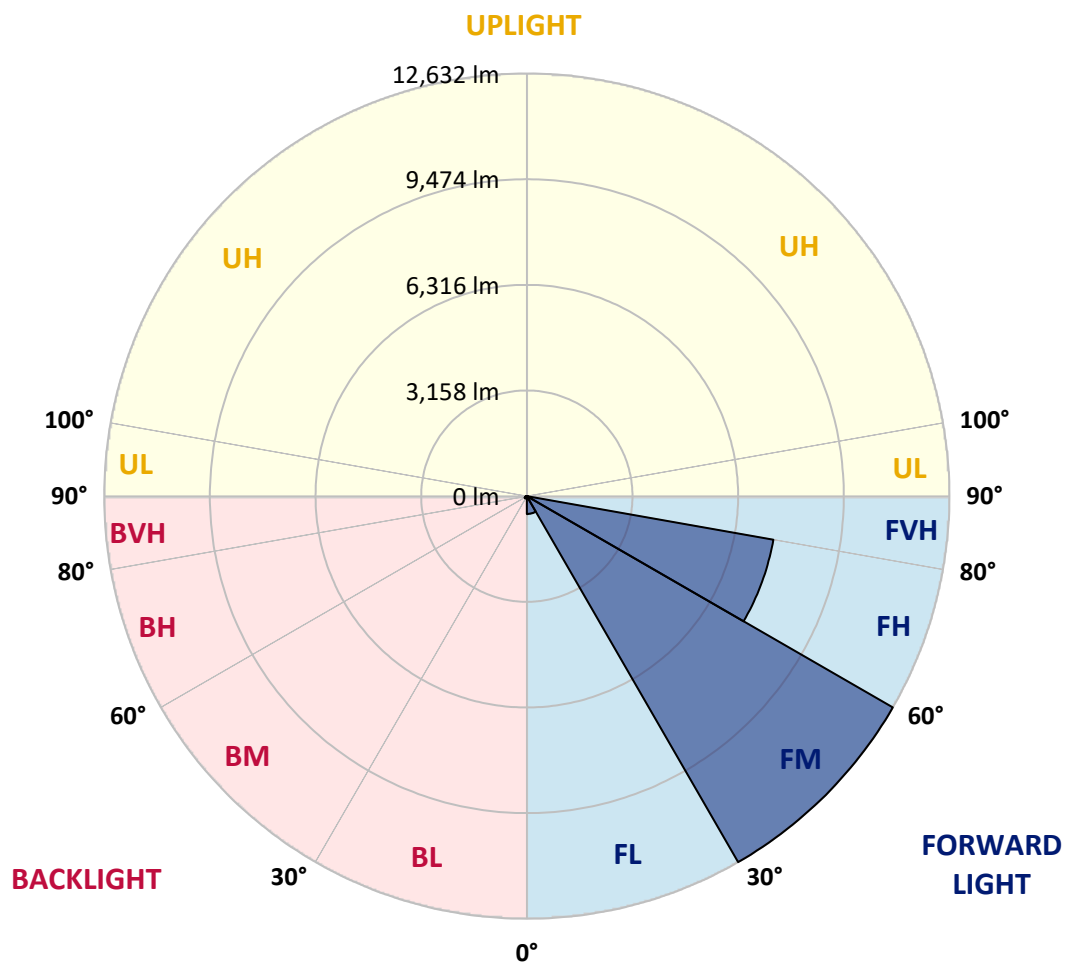
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	533.4	2.6			
FM	(30°-60°)	12632.4	60.6			
FH	(60°-80°)	7483.6	35.9			G3/7500
FVH	(80°-90°)	37.5	0.2			G1/100
BL	(0°-30°)	13.9	0.1	B0/110		
BM	(30°-60°)	77.8	0.4	B0/220		
BH	(60°-80°)	48.6	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°	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
2.5°	118.0	118.0	113.3	107.0	100.7	94.4	92.8	89.7	88.1	86.5
5°	122.7	122.7	121.2	116.4	110.1	105.4	105.4	100.7	97.6	94.4
7.5°	125.9	127.5	130.6	129.0	125.9	121.2	121.2	118.0	113.3	105.4
10°	130.6	135.3	141.6	144.8	146.3	146.3	144.8	143.2	135.3	124.3
12.5°	135.3	144.8	160.5	176.2	185.7	198.3	196.7	193.5	173.1	149.5
15°	144.8	158.9	192.0	237.6	308.4	352.5	369.8	354.0	286.4	201.4
17.5°	155.8	179.4	278.5	497.2	815.1	966.1	1057.4	983.4	651.4	382.4
20°	166.8	218.7	517.7	1288.7	2114.7	2608.8	2745.7	2531.7	1625.4	728.5
22.5°	185.7	306.8	1049.5	2663.9	4556.8	5297.9	5437.9	4753.4	3069.8	1438.1
25°	225.0	445.3	1809.5	4341.2	6800.5	8051.4	7993.2	7096.3	4980.0	2297.3
27.5°	281.7	648.3	2736.3	6168.0	8949.9	10052.9	10185.0	9075.7	6638.5	3378.2
30°	363.5	898.4	3730.7	7631.3	10672.8	11865.5	11887.5	10740.5	8122.2	4327.0
32.5°	442.1	1134.5	4600.8	9045.9	12370.6	13678.1	13775.7	12364.3	9229.9	5315.2
35°	501.9	1288.7	5482.0	10288.9	14082.5	15884.1	15877.8	14202.1	10542.2	6197.9
37.5°	506.7	1442.9	6279.7	11560.3	16250.8	18267.9	18467.8	16620.5	12128.3	7289.9
40°	495.6	1615.9	7289.9	13542.8	20157.7	23252.7	23428.9	21100.2	15309.8	9159.1
42.5°	508.2	1916.5	8929.4	17204.3	26645.1	31090.1	31430.0	28981.7	21158.4	12973.2
45°	574.3	2481.4	12364.3	23329.8	35892.3	41311.3	41198.0	37671.9	27963.6	18779.3
47.5°	793.0	3864.4	17456.0	29291.6	41802.3	46628.1	46725.6	42415.9	31935.1	23243.2
50°	1219.4	5913.1	21734.3	32443.3	44343.4	49185.0	49093.7	44113.7	33444.0	25441.4
52.5°	1586.1	7395.3	23880.5	33549.4	44669.1	50448.4	50442.2	44560.5	33678.5	25630.2
55°	1677.3	7507.0	23897.8	33609.2	45399.2	52102.2	52309.9	45660.4	33982.1	24805.7
57.5°	1641.1	6646.3	22900.2	33955.4	46698.9	53381.4	53392.4	46725.6	34753.1	24300.6
58°	1609.7	6511.0	22698.8	34152.1	46922.3	53434.9	53408.1	46774.4	35380.9	24281.7
60°	1433.4	5653.5	21913.7	34654.0	46590.3	52336.6	52086.4	45709.2	35288.1	24088.2
62.5°	1126.6	4410.4	21141.1	34073.4	43031.1	47019.9	47123.7	40468.0	32169.5	22960.0
65°	896.9	3287.0	19529.9	29888.0	35434.4	38612.8	38999.9	32907.5	26851.2	19441.7
67.5°	714.4	2375.9	16382.9	23795.5	28039.2	32226.1	32507.8	27628.5	20802.8	14896.0
70°	580.6	1606.5	11308.5	17402.5	23126.8	27834.6	27851.9	22952.1	15527.0	9760.2
72.5°	514.5	1112.4	6564.5	12691.6	18752.6	22681.5	22223.6	18625.1	11933.2	5780.9
75°	445.3	738.0	3219.3	7758.8	11369.9	11447.0	11621.6	8639.9	5965.0	2748.8
77.5°	366.6	524.0	1268.2	2119.5	3409.7	4364.8	4526.9	3430.2	1984.1	676.6
80°	251.8	248.6	341.4	649.8	975.5	1222.6	1140.8	882.7	519.2	259.6
82.5°	108.6	118.0	154.2	185.7	151.1	146.3	140.0	89.7	69.2	53.5
85°	34.6	31.5	33.0	33.0	26.7	20.5	20.5	9.4	0.0	0.0
87.5°	17.3	14.2	14.2	12.6	7.9	3.1	1.6	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°
91.3	0°	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
85.0	2.5°	83.4	83.4	80.2	77.1	75.5	72.4	70.8	69.2	67.7	66.1
91.3	5°	88.1	86.5	81.8	77.1	72.4	67.7	64.5	61.4	58.2	56.6
100.7	7.5°	96.0	92.8	83.4	75.5	69.2	62.9	59.8	55.1	51.9	47.2
111.7	10°	105.4	99.1	86.5	77.1	67.7	59.8	55.1	50.4	45.6	39.3
127.5	12.5°	118.0	107.0	91.3	75.5	64.5	55.1	50.4	44.1	39.3	34.6
147.9	15°	129.0	114.9	92.8	75.5	61.4	50.4	44.1	37.8	33.0	26.7
185.7	17.5°	144.8	121.2	91.3	70.8	56.6	44.1	37.8	33.0	25.2	15.7
275.4	20°	171.5	125.9	88.1	66.1	48.8	36.2	28.3	22.0	11.0	3.1
413.8	22.5°	214.0	138.5	85.0	59.8	42.5	28.3	18.9	7.9	0.0	0.0
629.4	25°	295.8	160.5	85.0	56.6	37.8	20.5	6.3	0.0	0.0	0.0
893.7	27.5°	393.4	190.4	85.0	48.8	29.9	11.0	0.0	0.0	0.0	0.0
1217.9	30°	492.5	223.4	85.0	42.5	23.6	1.6	0.0	0.0	0.0	0.0
1499.5	32.5°	586.9	251.8	86.5	36.2	15.7	0.0	0.0	0.0	0.0	0.0
1889.7	35°	682.9	256.5	85.0	31.5	9.4	0.0	0.0	0.0	0.0	0.0
2368.1	37.5°	805.6	247.0	80.2	28.3	4.7	0.0	0.0	0.0	0.0	0.0
3115.5	40°	991.3	251.8	75.5	26.7	1.6	0.0	0.0	0.0	0.0	0.0
4448.2	42.5°	1334.3	272.2	69.2	26.7	0.0	0.0	0.0	0.0	0.0	0.0
7085.3	45°	2306.7	365.0	62.9	28.3	0.0	0.0	0.0	0.0	0.0	0.0
10636.6	47.5°	3815.7	656.1	61.4	28.3	0.0	0.0	0.0	0.0	0.0	0.0
12812.7	50°	4869.9	826.1	64.5	29.9	0.0	0.0	0.0	0.0	0.0	0.0
13084.9	52.5°	4862.0	920.5	67.7	31.5	6.3	0.0	0.0	0.0	0.0	0.0
12060.6	55°	4322.3	937.8	72.4	34.6	20.5	0.0	0.0	0.0	0.0	0.0
10364.4	57.5°	3612.7	856.0	83.4	42.5	37.8	0.0	0.0	0.0	0.0	0.0
10098.5	58°	3486.8	818.2	86.5	44.1	40.9	0.0	0.0	0.0	0.0	0.0
8759.5	60°	2857.4	667.1	110.1	55.1	55.1	0.0	0.0	0.0	0.0	0.0
7181.3	62.5°	1973.1	582.2	125.9	70.8	56.6	0.0	0.0	0.0	0.0	0.0
5294.7	65°	1395.7	525.5	136.9	75.5	45.6	0.0	0.0	0.0	0.0	0.0
3762.2	67.5°	1043.2	484.6	151.1	77.1	23.6	0.0	0.0	0.0	0.0	0.0
2360.2	70°	799.3	454.7	185.7	81.8	6.3	0.0	0.0	0.0	0.0	0.0
1406.7	72.5°	651.4	420.1	225.0	85.0	0.0	0.0	0.0	0.0	0.0	0.0
843.4	75°	539.7	379.2	217.1	92.8	0.0	0.0	0.0	0.0	0.0	0.0
450.0	77.5°	358.8	294.2	198.3	92.8	0.0	0.0	0.0	0.0	0.0	0.0
160.5	80°	125.9	116.4	154.2	81.8	0.0	0.0	0.0	0.0	0.0	0.0
33.0	82.5°	18.9	15.7	22.0	28.3	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°
91.3	0°	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
64.5	2.5°	64.5	64.5	62.9	64.5	64.5	67.7	75.5	86.5	99.1	103.8
55.1	5°	53.5	51.9	50.4	50.4	50.4	55.1	61.4	74.0	88.1	94.4
45.6	7.5°	44.1	42.5	40.9	39.3	39.3	42.5	50.4	64.5	78.7	85.0
37.8	10°	36.2	33.0	31.5	29.9	29.9	33.0	40.9	55.1	70.8	77.1
31.5	12.5°	29.9	25.2	22.0	20.5	18.9	23.6	31.5	44.1	61.4	69.2
23.6	15°	20.5	15.7	11.0	9.4	7.9	12.6	20.5	34.6	51.9	61.4
12.6	17.5°	11.0	4.7	1.6	0.0	0.0	3.1	9.4	25.2	42.5	50.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6	31.5	39.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	18.9	26.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	14.2
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	4.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.6
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°
91.3	0°	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
108.6	2.5°	111.7	110.1	107.0	103.8	103.8	103.8	108.6	113.3	118.0	118.0
97.6	5°	103.8	103.8	102.3	99.1	99.1	100.7	107.0	114.9	121.2	122.7
89.7	7.5°	96.0	99.1	96.0	94.4	96.0	97.6	103.8	113.3	122.7	125.9
83.4	10°	91.3	92.8	92.8	91.3	91.3	94.4	100.7	113.3	125.9	130.6
75.5	12.5°	85.0	88.1	86.5	86.5	86.5	89.7	97.6	111.7	129.0	135.3
67.7	15°	78.7	83.4	83.4	81.8	81.8	83.4	94.4	110.1	133.7	144.8
58.2	17.5°	72.4	77.1	78.7	75.5	75.5	78.7	89.7	110.1	136.9	155.8
47.2	20°	59.8	67.7	72.4	67.7	67.7	70.8	81.8	103.8	138.5	166.8
34.6	22.5°	47.2	55.1	61.4	59.8	59.8	61.4	75.5	99.1	140.0	185.7
20.5	25°	34.6	42.5	47.2	50.4	50.4	55.1	69.2	96.0	146.3	225.0
9.4	27.5°	20.5	29.9	36.2	39.3	40.9	47.2	64.5	92.8	157.3	281.7
0.0	30°	9.4	17.3	25.2	31.5	31.5	42.5	59.8	89.7	171.5	363.5
0.0	32.5°	0.0	7.9	12.6	22.0	23.6	34.6	55.1	86.5	192.0	442.1
0.0	35°	0.0	0.0	6.3	17.3	17.3	28.3	50.4	83.4	223.4	501.9
0.0	37.5°	0.0	0.0	0.0	12.6	14.2	25.2	48.8	81.8	229.7	506.7
0.0	40°	0.0	0.0	0.0	9.4	11.0	23.6	48.8	83.4	207.7	495.6
0.0	42.5°	0.0	0.0	0.0	6.3	7.9	23.6	48.8	86.5	187.2	508.2
0.0	45°	0.0	0.0	0.0	4.7	6.3	25.2	47.2	85.0	176.2	574.3
0.0	47.5°	0.0	0.0	0.0	6.3	9.4	25.2	45.6	83.4	177.8	793.0
0.0	50°	0.0	0.0	0.0	7.9	11.0	25.2	47.2	80.2	195.1	1219.4
0.0	52.5°	0.0	0.0	0.0	6.3	9.4	28.3	51.9	78.7	212.4	1586.1
0.0	55°	0.0	0.0	0.0	1.6	4.7	36.2	56.6	78.7	239.2	1677.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	40.9	64.5	83.4	283.2	1641.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	40.9	66.1	83.4	286.4	1609.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	40.9	72.4	92.8	308.4	1433.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	34.6	86.5	116.4	321.0	1126.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	28.3	102.3	127.5	330.4	896.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	26.7	105.4	129.0	335.1	714.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	28.3	103.8	138.5	350.9	580.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	31.5	94.4	152.6	350.9	514.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	33.0	88.1	171.5	319.4	445.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	31.5	86.5	199.8	284.8	366.6
0.0	80°	3.1	4.7	4.7	3.1	3.1	26.7	85.0	203.0	242.3	251.8
1.6	82.5°	9.4	12.6	11.0	7.9	7.9	23.6	75.5	169.9	125.9	108.6
9.4	85°	17.3	20.5	20.5	17.3	17.3	22.0	47.2	61.4	42.5	34.6
17.3	87.5°	23.6	26.7	26.7	23.6	23.6	22.0	20.5	18.9	17.3	17.3
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: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

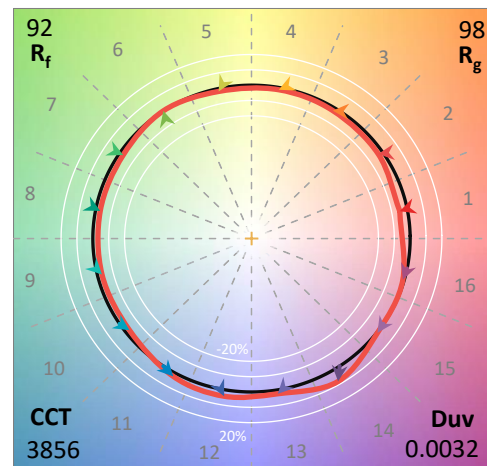
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-16
 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-940-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3856
 CIE u' : 0.2261
 CIE v' : 0.5084
 Duv: 0.0032
 CIE x: 0.3896
 CIE y: 0.3894
 CIE z: 0.2211
 Peak Wavelength (nm): 614
 Dominant Wavelength (nm): 578
 Purity: 33.77304
 R_f: 91.8
 R_g: 98.4

CRI (Ra): 92.1
 R1: 91.8
 R2: 94.1
 R3: 95.3
 R4: 92.8
 R5: 91.0
 R6: 91.6
 R7: 95.0
 R8: 85.2
 R9: 60.7
 R10: 85.2
 R11: 92.4
 R12: 74.5
 R13: 92.3
 R14: 97.0
 R15: 88.5



Test Conditions

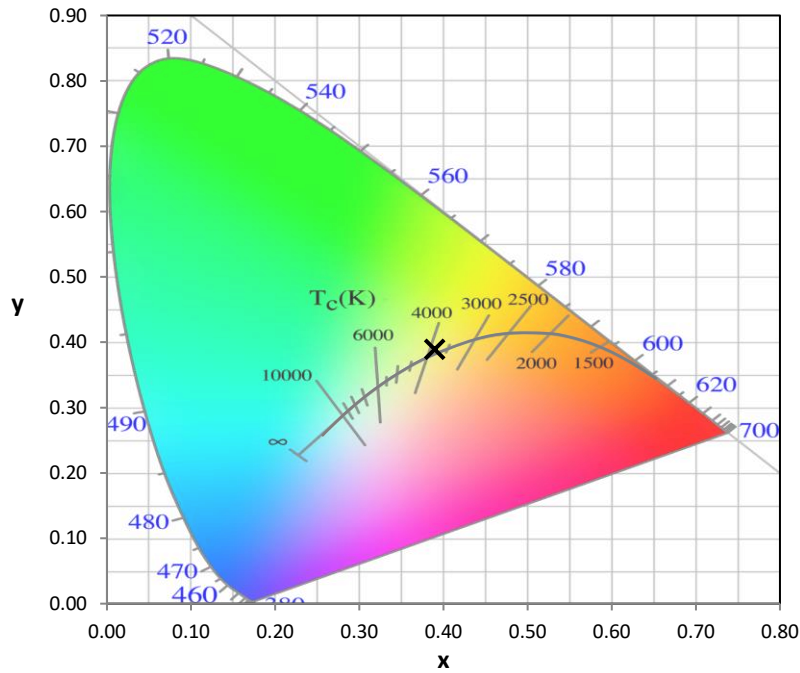
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

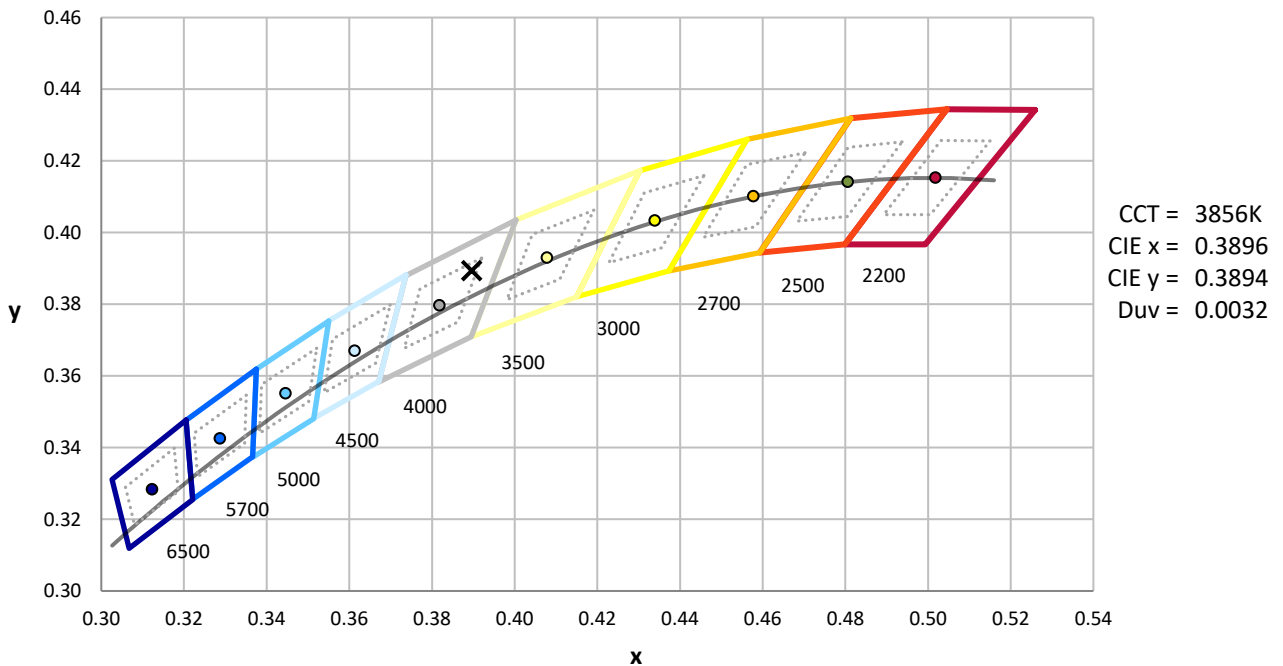
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-16

CIE 1931 Chromaticity Diagram



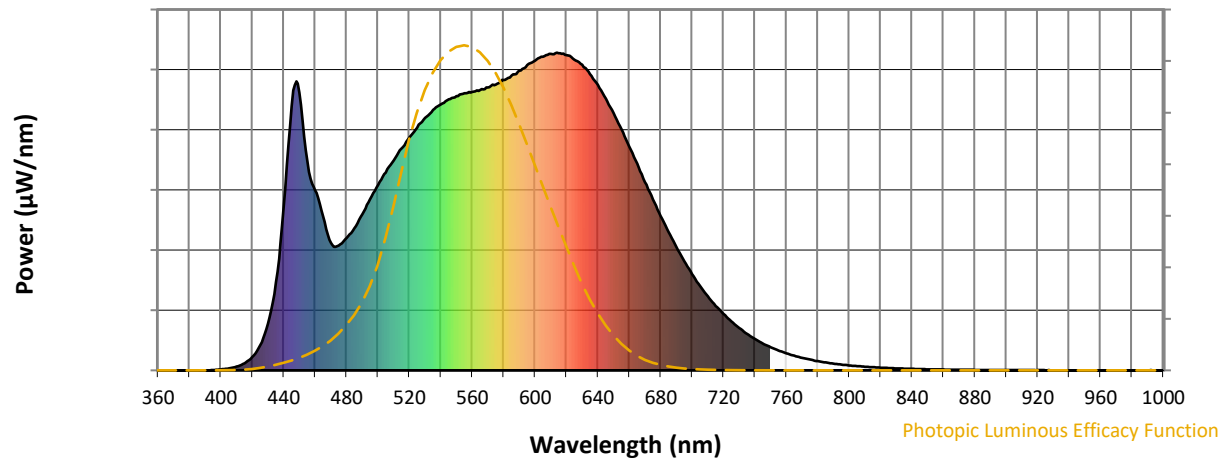
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

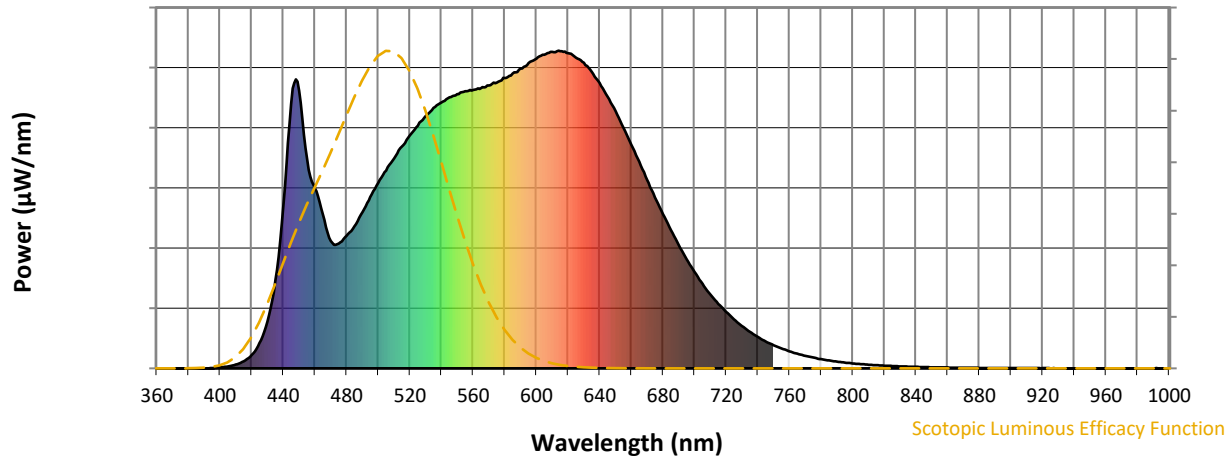
Photopic Flux vs. Wavelength



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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

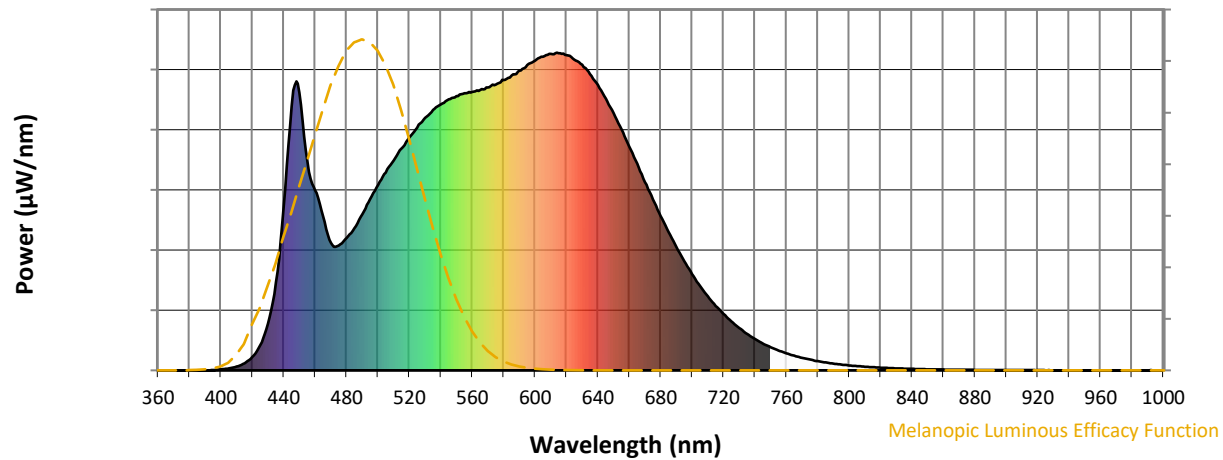
REPORT NUMBER: SP1-2407-184-16

Scotopic Flux vs. Wavelength

Scotopic Lumens: NR
S/P: 1.72

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.52

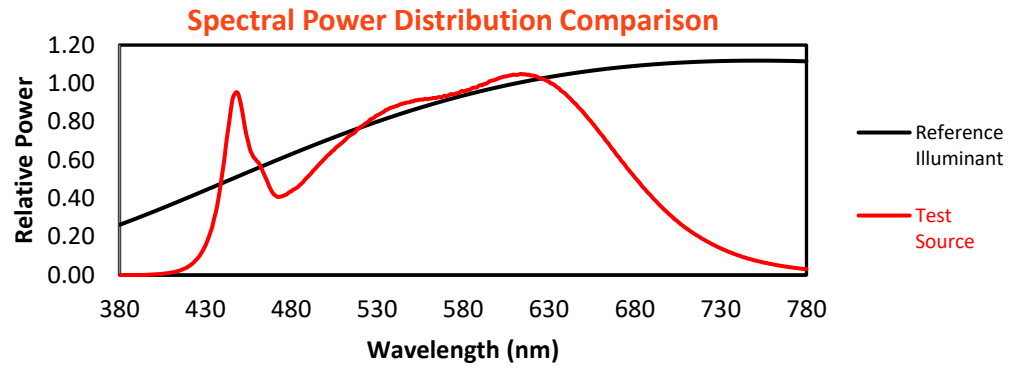
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

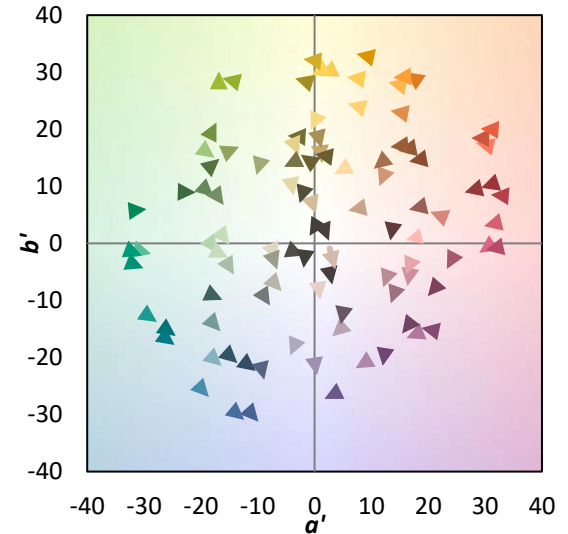
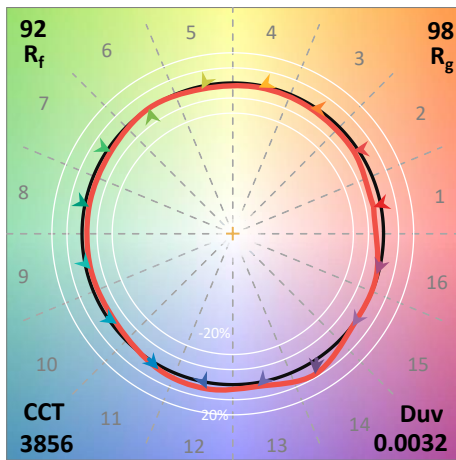
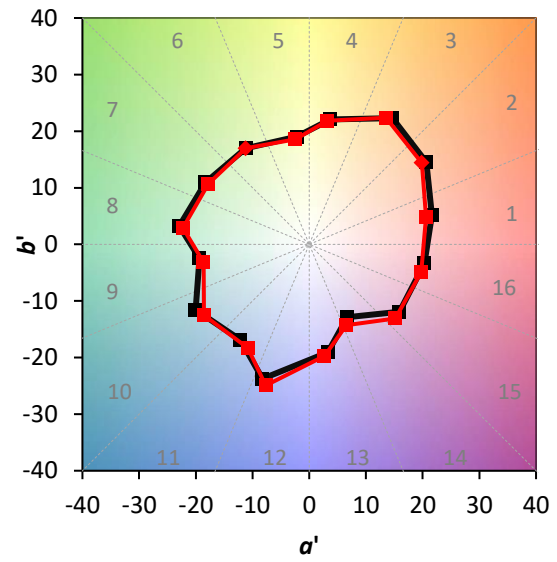
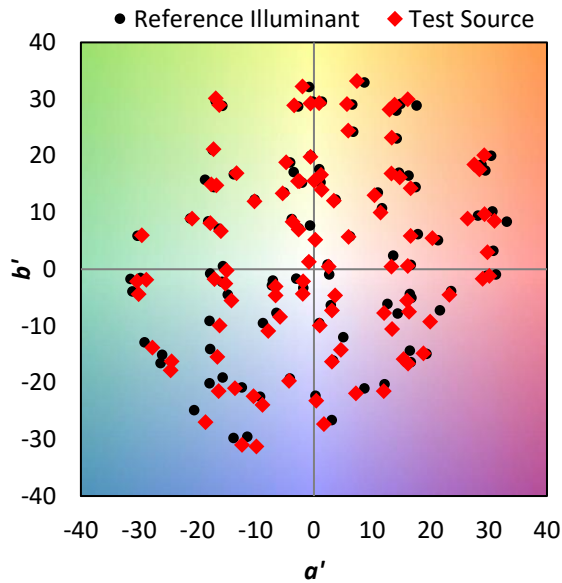
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 98.4$
 $CIE R_a = 92.1$
 $R_9 = 60.7$

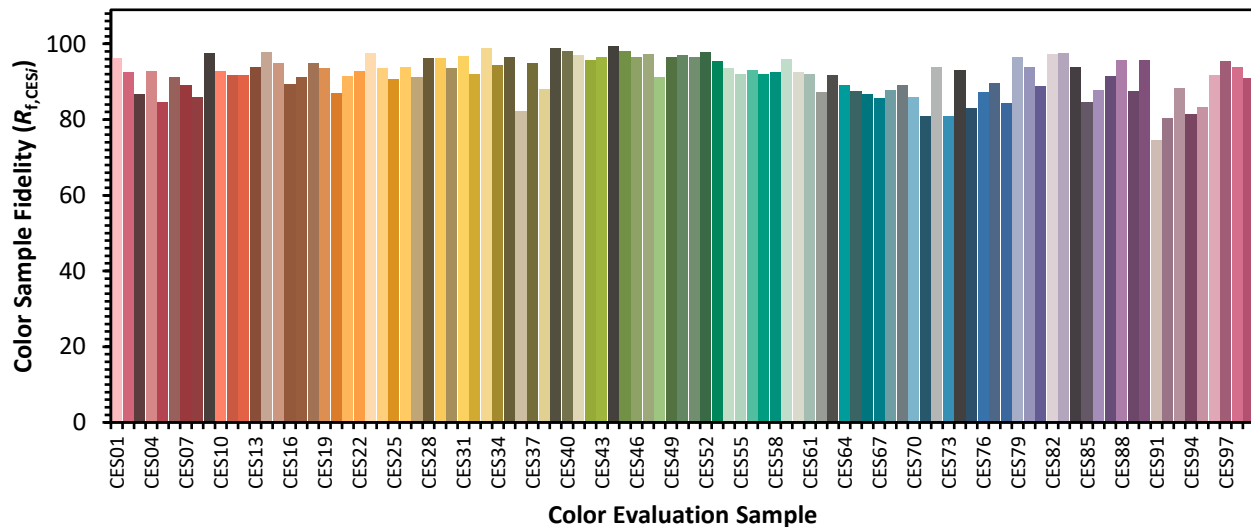


Color Vector Graphics

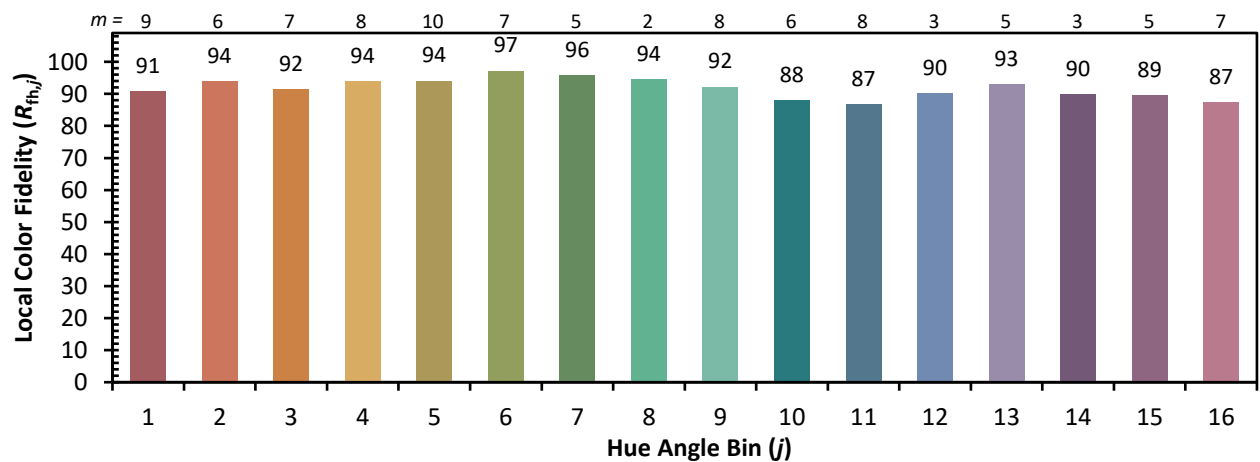
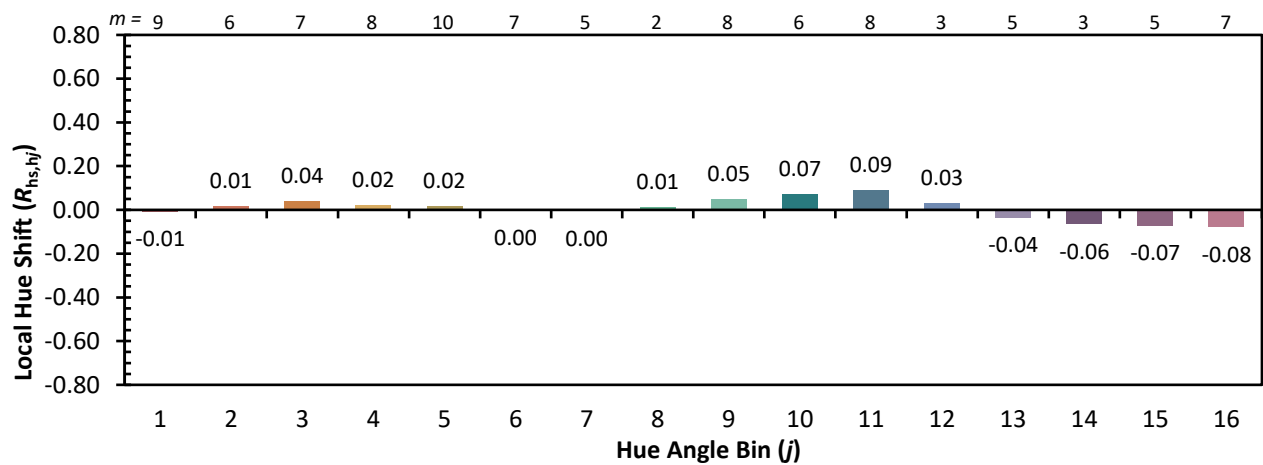
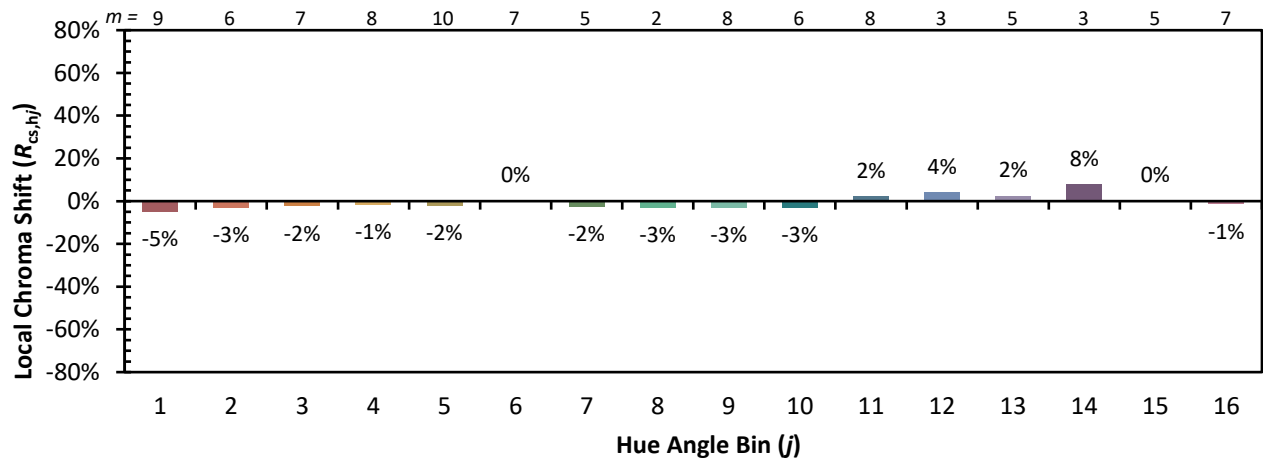


Individual Sample Fidelity Index ($R_{f,i}$)

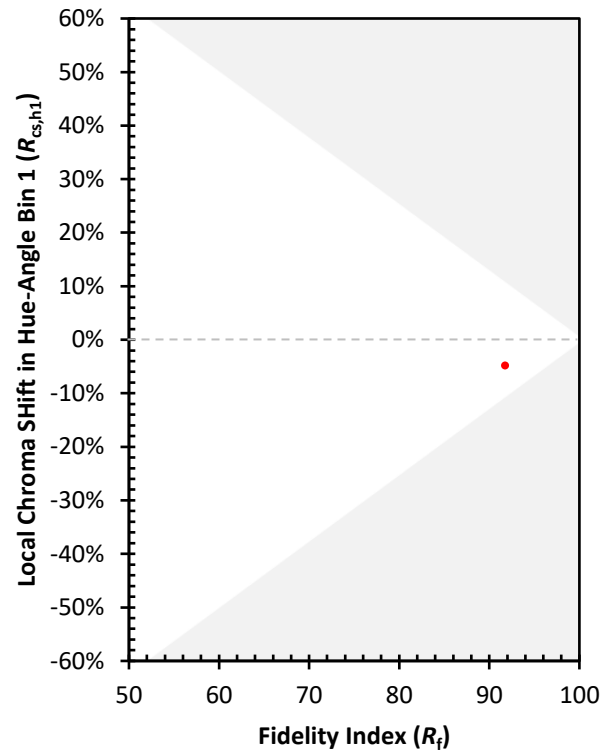
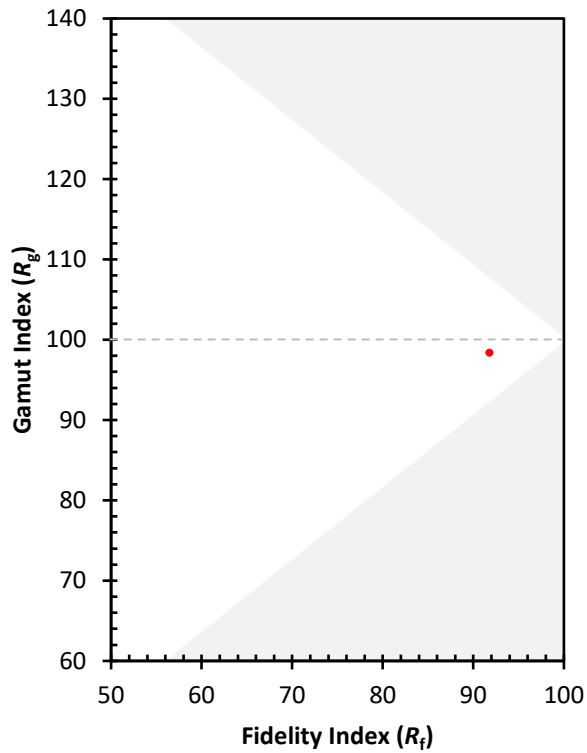
CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82 = 97
CES08 = 41	CES33 = 99	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 74	CES35 = 96	CES60 = 93	CES85 = 85
CES11 = 57	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 63	CES37 = 95	CES62 = 87	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 87	CES91 = 74
CES17 = 49	CES42 = 96	CES67 = 86	CES92 = 80
CES18 = 56	CES43 = 96	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 82
CES20 = 66	CES45 = 98	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 81	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 91	CES73 = 81	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 93	CES99 = 91
CES25 = 71	CES50 = 97	CES75 = 83	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)