

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: P1049522

Luminaire Tested: **GALN-SA7B-722-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049522
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 7xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20832 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

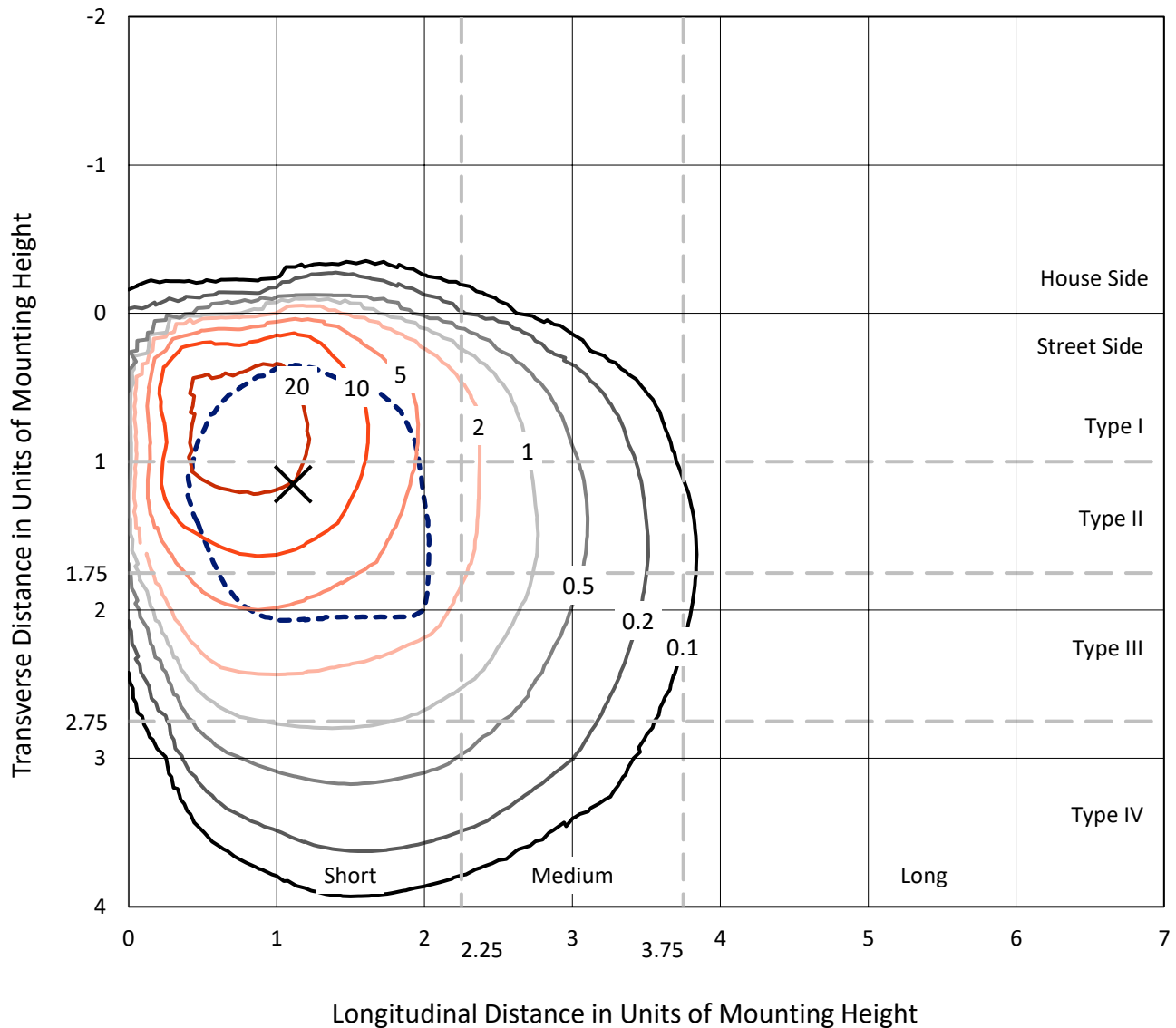
Input Watts (W): 249.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

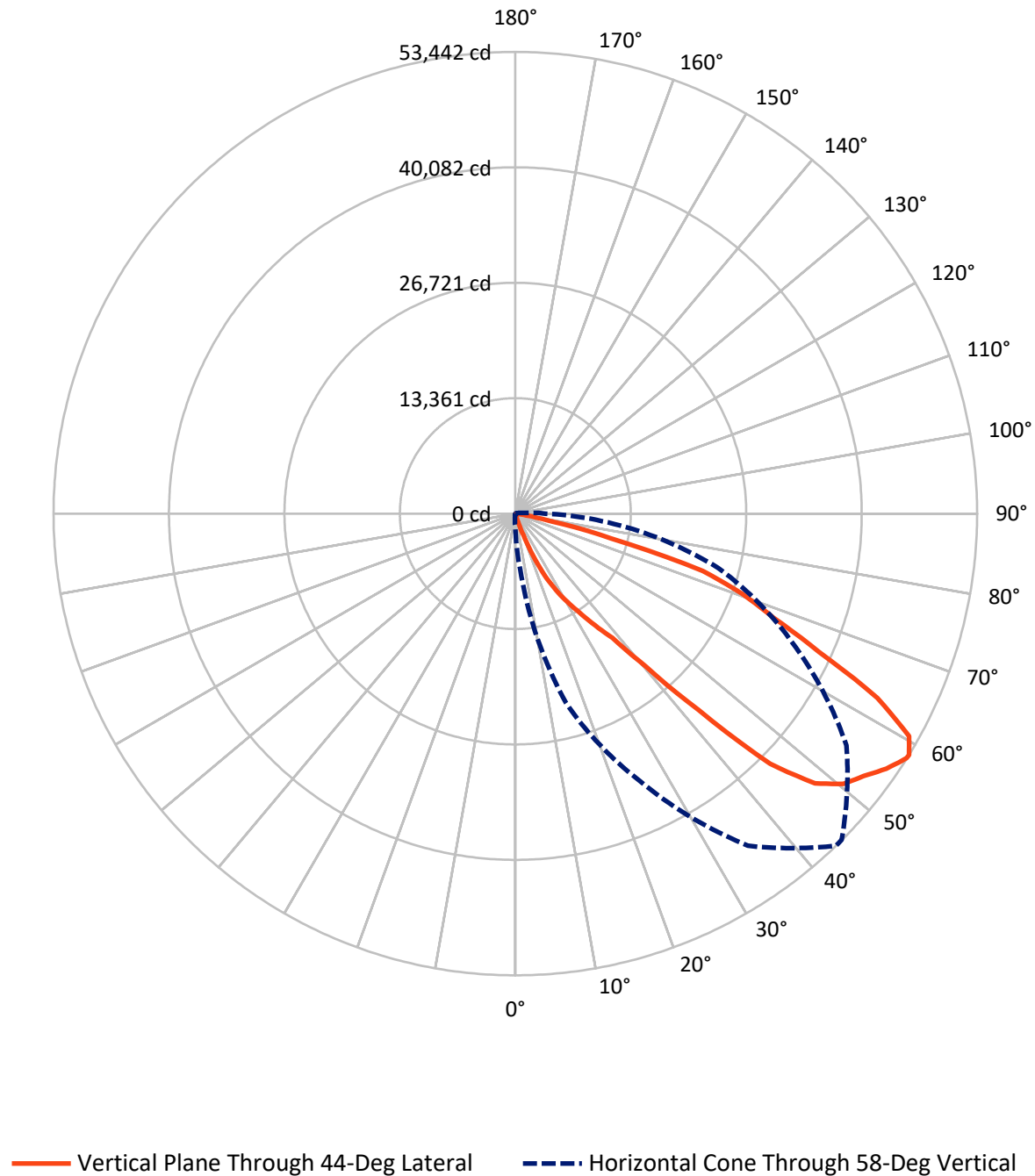
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	20689.8	0.0	20689.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	20832.0	0.0	20832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.0
10°-20°	45.7	0.2
20°-30°	493.5	2.4
30°-40°	1459.5	7.0
40°-50°	4350.1	20.9
50°-60°	6902.5	33.1
60°-70°	5757.5	27.6
70°-80°	1775.7	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°	20832.0	100.0
0°-180°	20832.0	100.0

Coefficient of Utilization



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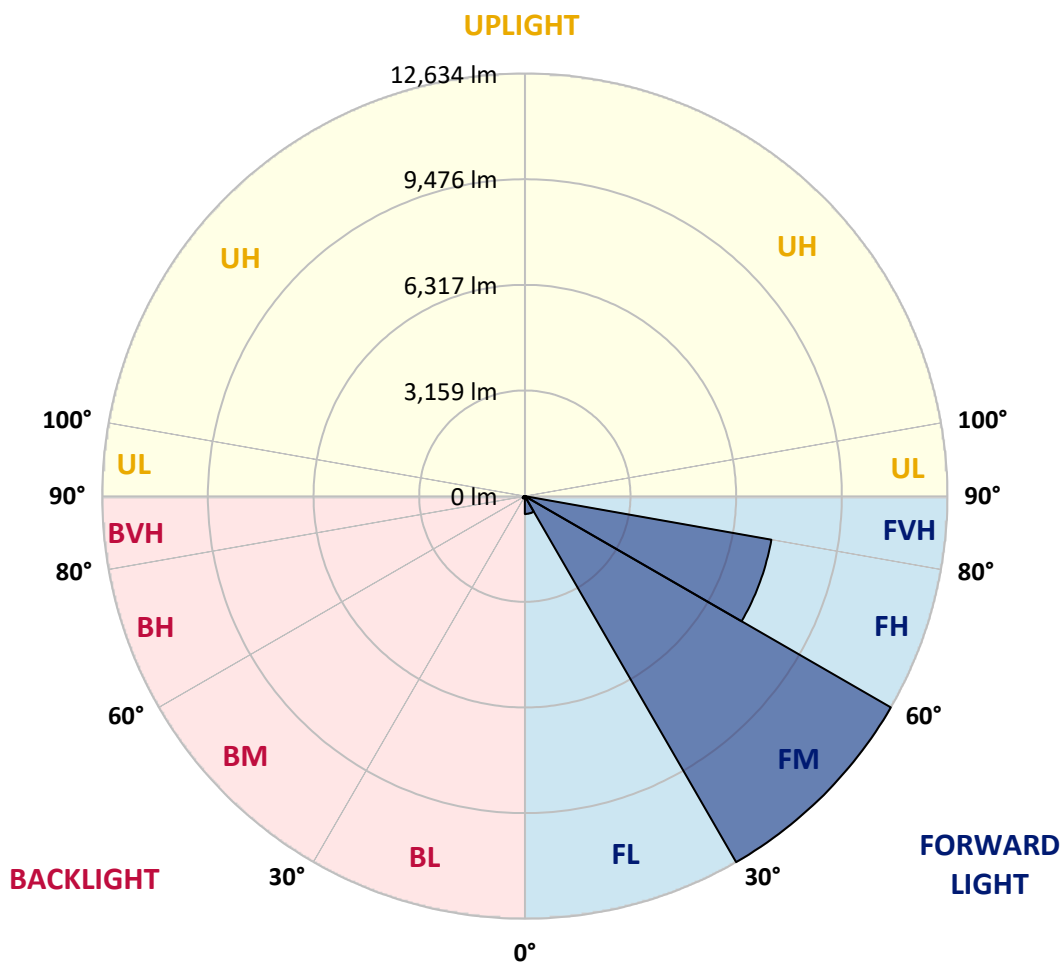
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	533.4	2.6			
FM	(30°-60°)	12634.2	60.6			
FH	(60°-80°)	7484.6	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°)	77.9	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°	85°
0°	91.3	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	86.6	85.0
5°	122.7	122.7	121.2	116.5	110.2	105.4	105.4	100.7	97.6	94.4	91.3
7.5°	125.9	127.5	130.6	129.0	125.9	121.2	121.2	118.0	113.3	105.4	100.7
10°	130.6	135.3	141.6	144.8	146.4	146.4	144.8	143.2	135.3	124.3	111.7
12.5°	135.3	144.8	160.5	176.3	185.7	198.3	196.7	193.6	173.1	149.5	127.5
15°	144.8	158.9	192.0	237.6	308.4	352.5	369.8	354.1	286.4	201.4	147.9
17.5°	155.8	179.4	278.5	497.3	815.2	966.2	1057.5	983.6	651.5	382.4	185.7
20°	166.8	218.7	517.7	1288.8	2115.0	2609.2	2746.1	2532.1	1625.6	728.6	275.4
22.5°	185.7	306.9	1049.6	2664.2	4557.4	5298.6	5438.6	4754.1	3070.3	1438.3	413.9
25°	225.0	445.4	1809.7	4341.8	6801.4	8052.5	7994.3	7097.3	4980.7	2297.6	629.5
27.5°	281.7	648.4	2736.6	6168.8	8951.1	10054.2	10186.4	9077.0	6639.4	3378.7	893.9
30°	363.5	898.6	3731.2	7632.4	10674.3	11867.1	11889.2	10741.9	8123.3	4327.6	1218.0
32.5°	442.2	1134.6	4601.4	9047.1	12372.3	13680.0	13777.6	12366.0	9231.2	5315.9	1499.7
35°	502.0	1288.8	5482.7	10290.3	14084.4	15886.3	15880.0	14204.0	10543.7	6198.7	1890.0
37.5°	506.7	1443.1	6280.6	11561.8	16253.0	18270.4	18470.3	16622.8	12129.9	7290.9	2368.4
40°	495.7	1616.2	7290.9	13544.7	20160.4	23255.9	23432.1	21103.1	15311.9	9160.4	3115.9
42.5°	508.3	1916.7	8930.6	17206.6	26648.7	31094.4	31434.3	28985.6	21161.3	12975.0	4448.8
45°	574.4	2481.7	12366.0	23333.0	35897.2	41317.0	41203.7	37677.1	27967.5	18781.9	7086.3
47.5°	793.1	3865.0	17458.4	29295.6	41808.0	46634.4	46732.0	42421.7	31939.4	23246.4	10638.1
50°	1219.6	5913.9	21737.2	32447.7	44349.5	49191.7	49100.4	44119.7	33448.6	25444.8	12814.5
52.5°	1586.3	7396.3	23883.7	33554.0	44675.2	50455.3	50449.1	44566.6	33683.1	25633.7	13086.7
55°	1677.5	7508.0	23901.1	33613.8	45405.4	52109.3	52317.0	45666.6	33986.8	24809.1	12062.3
57.5°	1641.3	6647.2	22903.3	33960.0	46705.3	53388.7	53399.7	46732.0	34757.9	24303.9	10365.8
58°	1609.9	6511.9	22701.9	34156.7	46928.7	53442.2	53415.4	46780.8	35385.8	24285.0	10099.9
60°	1433.6	5654.2	21916.6	34658.7	46596.7	52343.8	52093.5	45715.4	35292.9	24091.5	8760.7
62.5°	1126.8	4411.0	21144.0	34078.1	43037.0	47026.3	47130.2	40473.5	32173.9	22963.1	7182.3
65°	897.0	3287.4	19532.5	29892.1	35439.3	38618.1	39005.2	32912.0	26854.9	19444.4	5295.4
67.5°	714.5	2376.3	16385.2	23798.8	28043.0	32230.6	32512.2	27632.3	20805.6	14898.0	3762.7
70°	580.7	1606.7	11310.0	17404.9	23130.0	27838.4	27855.7	22955.3	15529.1	9761.5	2360.5
72.5°	514.6	1112.6	6565.4	12693.3	18755.1	22684.6	22226.7	18627.7	11934.8	5781.7	1406.9
75°	445.4	738.1	3219.8	7759.8	11371.4	11448.5	11623.2	8641.1	5965.8	2749.2	843.5
77.5°	366.7	524.0	1268.4	2119.7	3410.2	4365.4	4527.5	3430.6	1984.4	676.7	450.1
80°	251.8	248.6	341.5	649.9	975.7	1222.7	1140.9	882.8	519.3	259.7	160.5
82.5°	108.6	118.0	154.2	185.7	151.1	146.4	140.1	89.7	69.2	53.5	33.0
85°	34.6	31.5	33.0	33.0	26.8	20.5	20.5	9.4	0.0	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	0.0
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
2.5°	83.4	83.4	80.3	77.1	75.5	72.4	70.8	69.2	67.7	66.1	64.5
5°	88.1	86.6	81.8	77.1	72.4	67.7	64.5	61.4	58.2	56.7	55.1
7.5°	96.0	92.8	83.4	75.5	69.2	62.9	59.8	55.1	51.9	47.2	45.6
10°	105.4	99.1	86.6	77.1	67.7	59.8	55.1	50.4	45.6	39.3	37.8
12.5°	118.0	107.0	91.3	75.5	64.5	55.1	50.4	44.1	39.3	34.6	31.5
15°	129.0	114.9	92.8	75.5	61.4	50.4	44.1	37.8	33.0	26.8	23.6
17.5°	144.8	121.2	91.3	70.8	56.7	44.1	37.8	33.0	25.2	15.7	12.6
20°	171.5	125.9	88.1	66.1	48.8	36.2	28.3	22.0	11.0	3.1	0.0
22.5°	214.0	138.5	85.0	59.8	42.5	28.3	18.9	7.9	0.0	0.0	0.0
25°	295.9	160.5	85.0	56.7	37.8	20.5	6.3	0.0	0.0	0.0	0.0
27.5°	393.4	190.4	85.0	48.8	29.9	11.0	0.0	0.0	0.0	0.0	0.0
30°	492.6	223.5	85.0	42.5	23.6	1.6	0.0	0.0	0.0	0.0	0.0
32.5°	587.0	251.8	86.6	36.2	15.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	683.0	256.5	85.0	31.5	9.4	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	805.7	247.1	80.3	28.3	4.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	991.4	251.8	75.5	26.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1334.5	272.2	69.2	26.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2307.0	365.1	62.9	28.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3816.2	656.2	61.4	28.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4870.5	826.2	64.5	29.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4862.7	920.6	67.7	31.5	6.3	0.0	0.0	0.0	0.0	0.0	0.0
55°	4322.9	937.9	72.4	34.6	20.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3613.2	856.1	83.4	42.5	37.8	0.0	0.0	0.0	0.0	0.0	0.0
58°	3487.3	818.3	86.6	44.1	40.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	2857.8	667.2	110.2	55.1	55.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1973.4	582.3	125.9	70.8	56.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	1395.9	525.6	136.9	75.5	45.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1043.4	484.7	151.1	77.1	23.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	799.4	454.8	185.7	81.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	651.5	420.2	225.0	85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	539.8	379.3	217.2	92.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	358.8	294.3	198.3	92.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	125.9	116.5	154.2	81.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
2.5°	64.5	64.5	62.9	64.5	64.5	67.7	75.5	86.6	99.1	103.9	108.6
5°	53.5	51.9	50.4	50.4	50.4	55.1	61.4	74.0	88.1	94.4	97.6
7.5°	44.1	42.5	40.9	39.3	39.3	42.5	50.4	64.5	78.7	85.0	89.7
10°	36.2	33.0	31.5	29.9	29.9	33.0	40.9	55.1	70.8	77.1	83.4
12.5°	29.9	25.2	22.0	20.5	18.9	23.6	31.5	44.1	61.4	69.2	75.5
15°	20.5	15.7	11.0	9.4	7.9	12.6	20.5	34.6	51.9	61.4	67.7
17.5°	11.0	4.7	1.6	0.0	0.0	3.1	9.4	25.2	42.5	50.4	58.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6	31.5	39.3	47.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	18.9	26.8	34.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	14.2	20.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	9.4
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	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	9.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.6	17.3
90°	0.0	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):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
2.5°	111.7	110.2	107.0	103.9	103.9	103.9	108.6	113.3	118.0	118.0
5°	103.9	103.9	102.3	99.1	99.1	100.7	107.0	114.9	121.2	122.7
7.5°	96.0	99.1	96.0	94.4	96.0	97.6	103.9	113.3	122.7	125.9
10°	91.3	92.8	92.8	91.3	91.3	94.4	100.7	113.3	125.9	130.6
12.5°	85.0	88.1	86.6	86.6	86.6	89.7	97.6	111.7	129.0	135.3
15°	78.7	83.4	83.4	81.8	81.8	83.4	94.4	110.2	133.8	144.8
17.5°	72.4	77.1	78.7	75.5	75.5	78.7	89.7	110.2	136.9	155.8
20°	59.8	67.7	72.4	67.7	67.7	70.8	81.8	103.9	138.5	166.8
22.5°	47.2	55.1	61.4	59.8	59.8	61.4	75.5	99.1	140.1	185.7
25°	34.6	42.5	47.2	50.4	50.4	55.1	69.2	96.0	146.4	225.0
27.5°	20.5	29.9	36.2	39.3	40.9	47.2	64.5	92.8	157.4	281.7
30°	9.4	17.3	25.2	31.5	31.5	42.5	59.8	89.7	171.5	363.5
32.5°	0.0	7.9	12.6	22.0	23.6	34.6	55.1	86.6	192.0	442.2
35°	0.0	0.0	6.3	17.3	17.3	28.3	50.4	83.4	223.5	502.0
37.5°	0.0	0.0	0.0	12.6	14.2	25.2	48.8	81.8	229.8	506.7
40°	0.0	0.0	0.0	9.4	11.0	23.6	48.8	83.4	207.7	495.7
42.5°	0.0	0.0	0.0	6.3	7.9	23.6	48.8	86.6	187.3	508.3
45°	0.0	0.0	0.0	4.7	6.3	25.2	47.2	85.0	176.3	574.4
47.5°	0.0	0.0	0.0	6.3	9.4	25.2	45.6	83.4	177.8	793.1
50°	0.0	0.0	0.0	7.9	11.0	25.2	47.2	80.3	195.1	1219.6
52.5°	0.0	0.0	0.0	6.3	9.4	28.3	51.9	78.7	212.4	1586.3
55°	0.0	0.0	0.0	1.6	4.7	36.2	56.7	78.7	239.2	1677.5
57.5°	0.0	0.0	0.0	0.0	0.0	40.9	64.5	83.4	283.3	1641.3
58°	0.0	0.0	0.0	0.0	0.0	40.9	66.1	83.4	286.4	1609.9
60°	0.0	0.0	0.0	0.0	0.0	40.9	72.4	92.8	308.4	1433.6
62.5°	0.0	0.0	0.0	0.0	0.0	34.6	86.6	116.5	321.0	1126.8
65°	0.0	0.0	0.0	0.0	0.0	28.3	102.3	127.5	330.5	897.0
67.5°	0.0	0.0	0.0	0.0	0.0	26.8	105.4	129.0	335.2	714.5
70°	0.0	0.0	0.0	0.0	0.0	28.3	103.9	138.5	350.9	580.7
72.5°	0.0	0.0	0.0	0.0	0.0	31.5	94.4	152.6	350.9	514.6
75°	0.0	0.0	0.0	0.0	0.0	33.0	88.1	171.5	319.5	445.4
77.5°	0.0	0.0	0.0	0.0	0.0	31.5	86.6	199.9	284.8	366.7
80°	3.1	4.7	4.7	3.1	3.1	26.8	85.0	203.0	242.3	251.8
82.5°	9.4	12.6	11.0	7.9	7.9	23.6	75.5	170.0	125.9	108.6
85°	17.3	20.5	20.5	17.3	17.3	22.0	47.2	61.4	42.5	34.6
87.5°	23.6	26.8	26.8	23.6	23.6	22.0	20.5	18.9	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

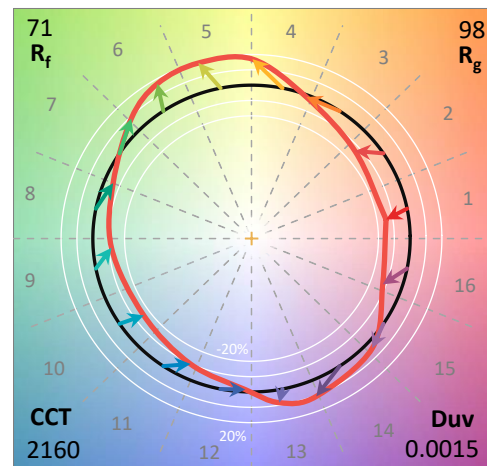
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

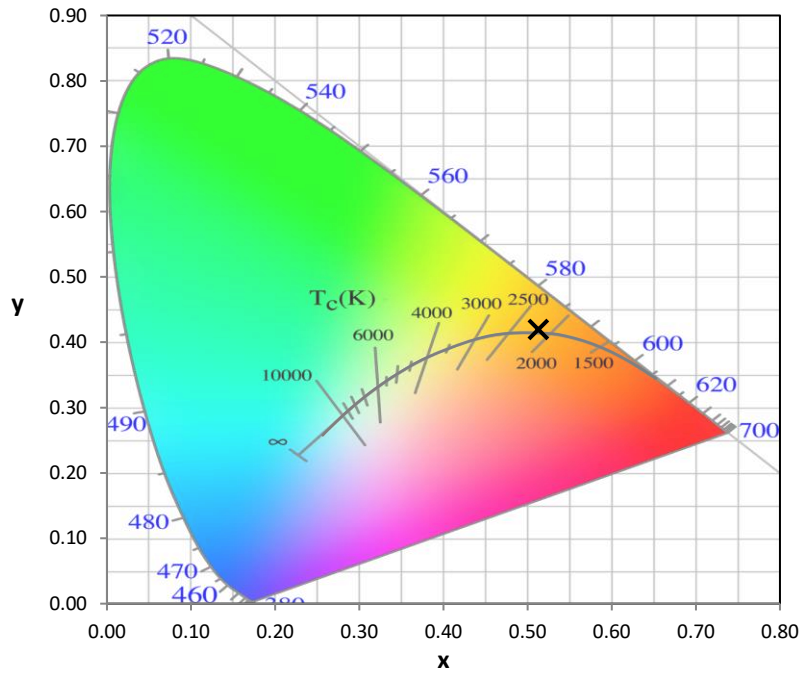
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

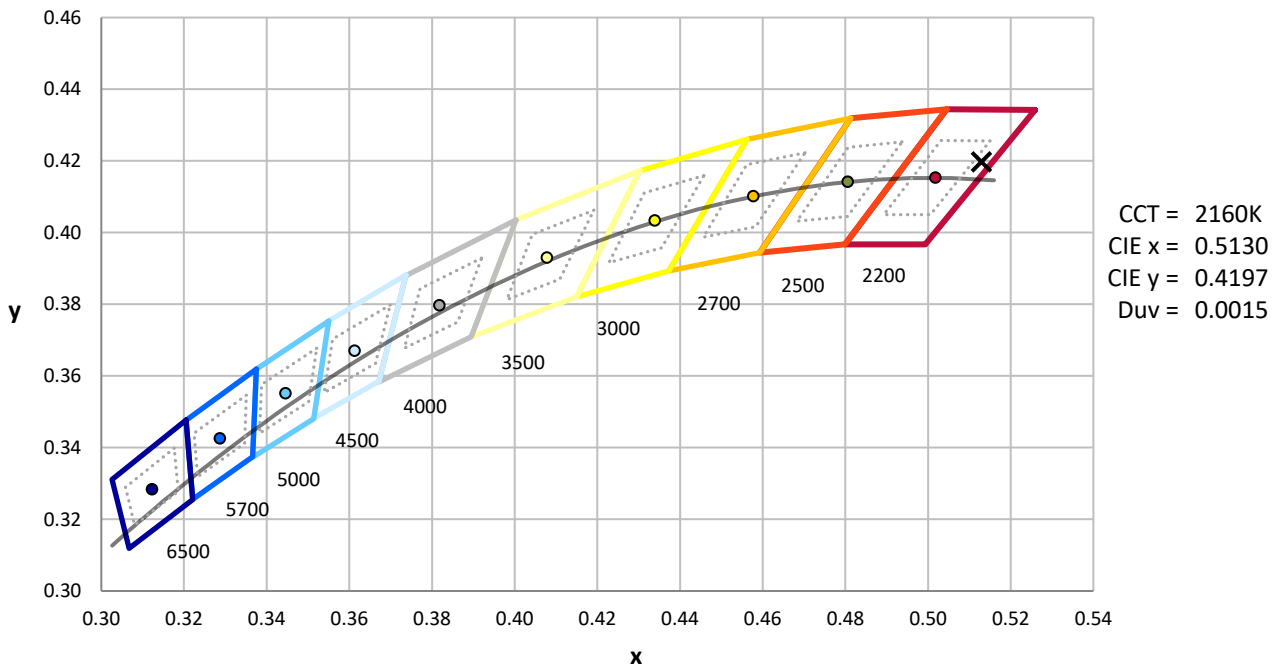
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



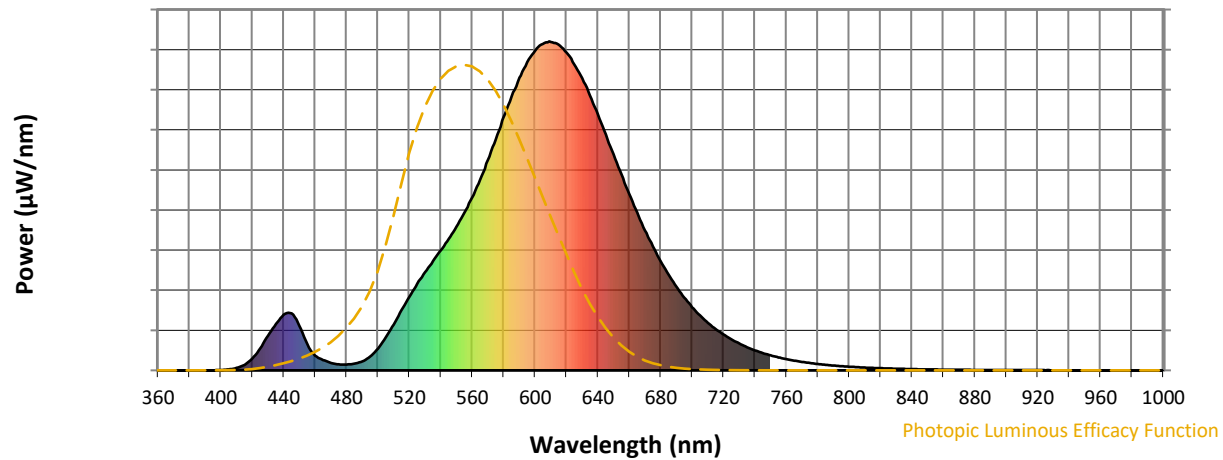
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

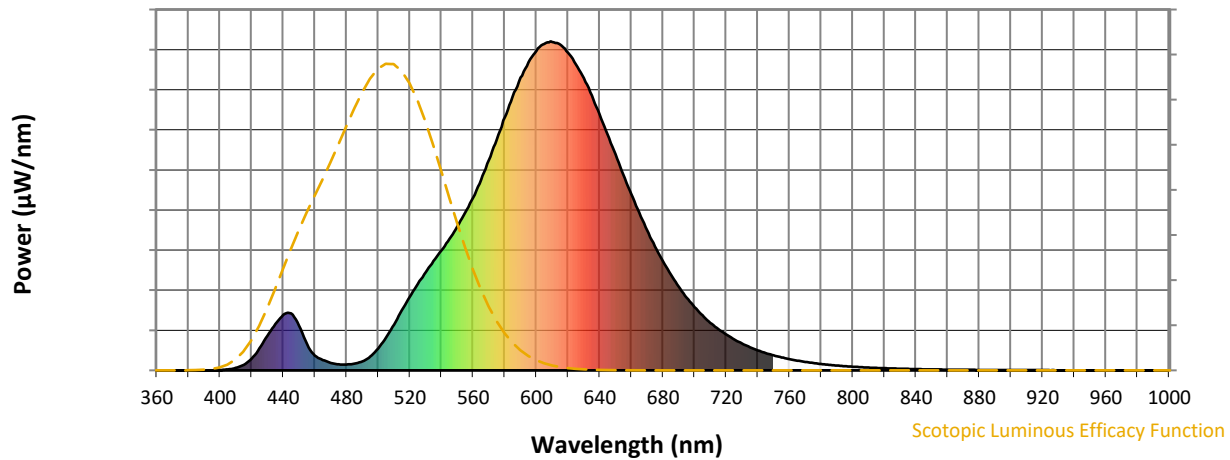


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



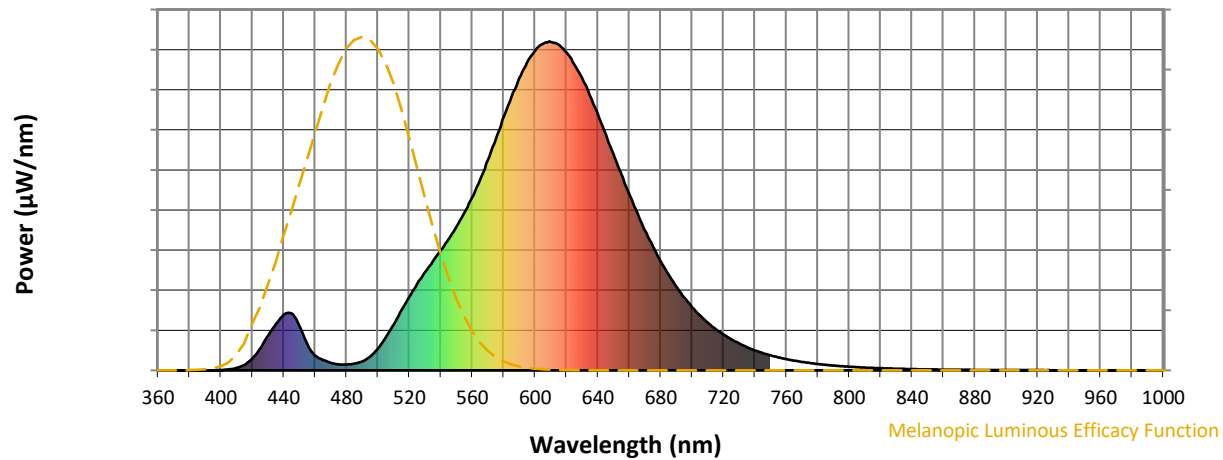
Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

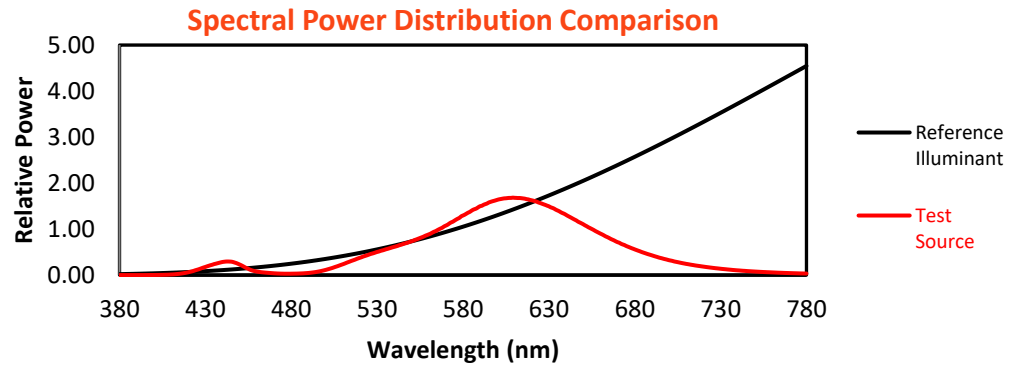
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

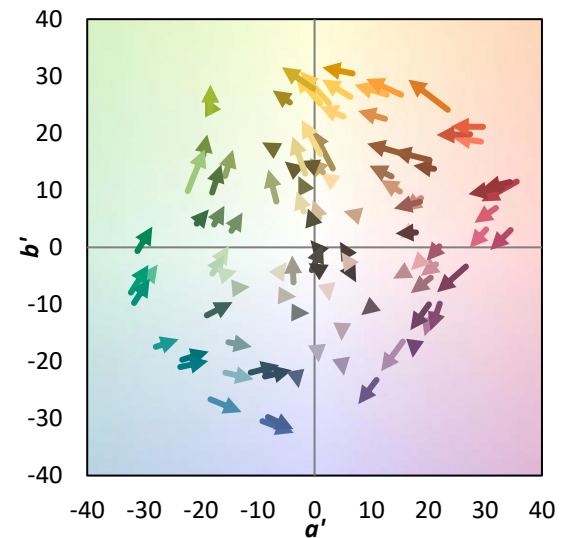
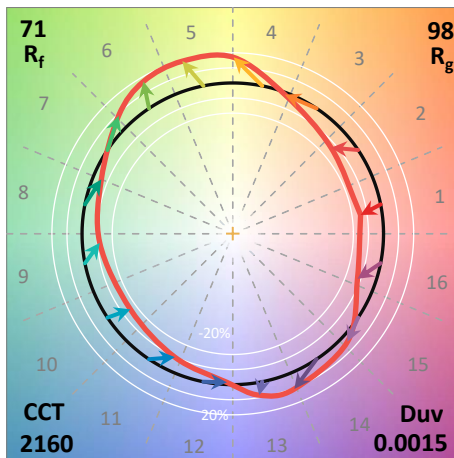
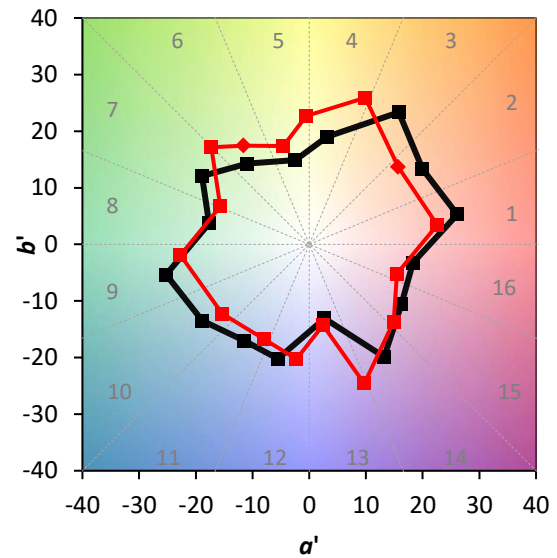
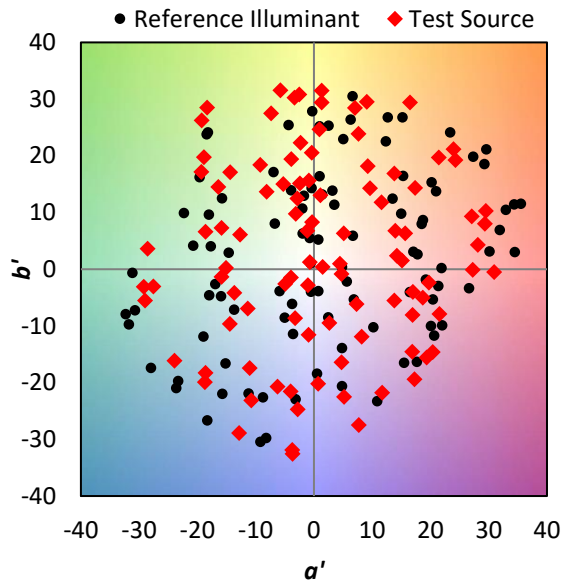
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE\ R_a = 71.9$
 $R_g = -17.8$

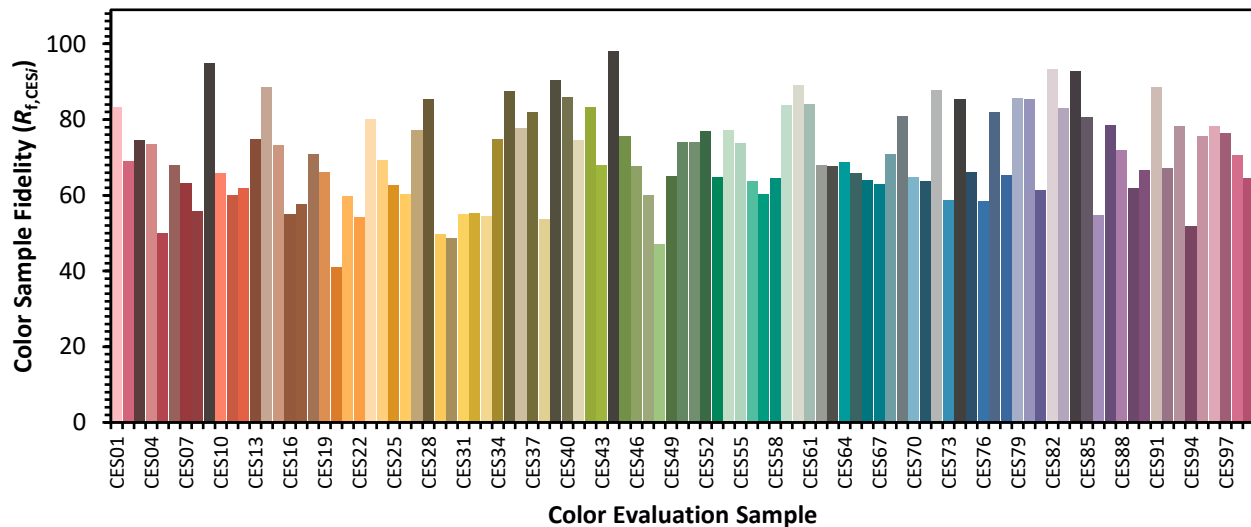


Color Vector Graphics

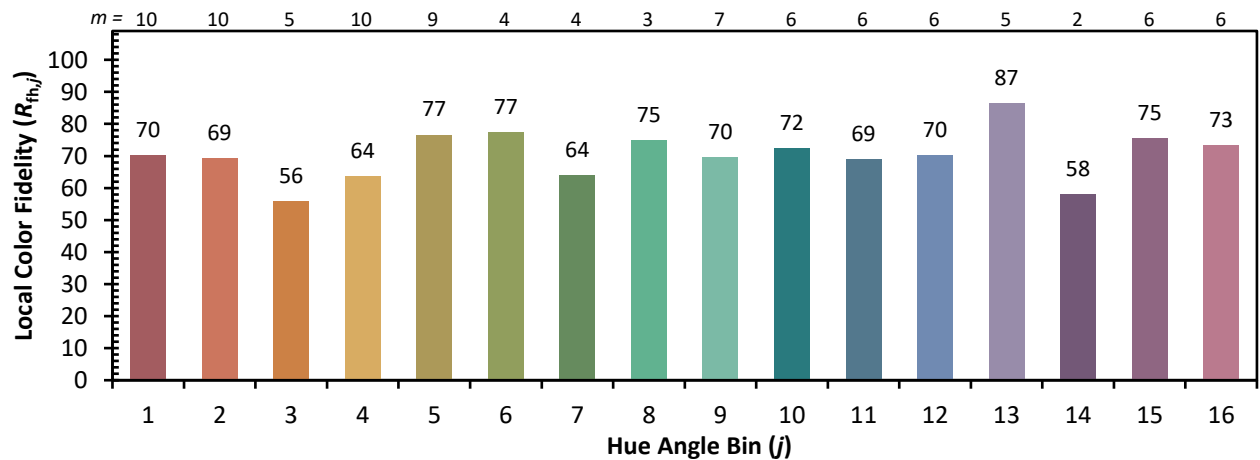
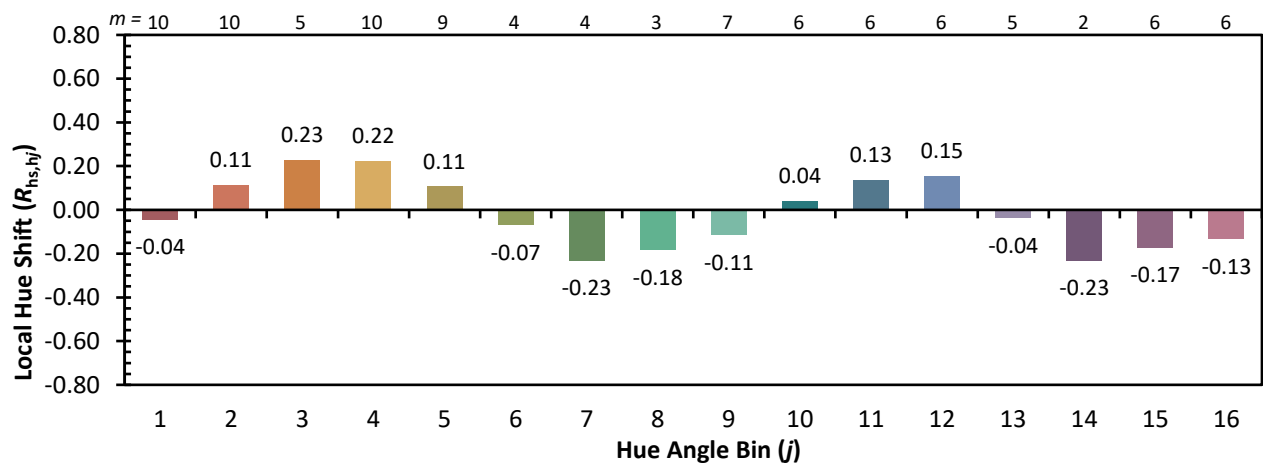
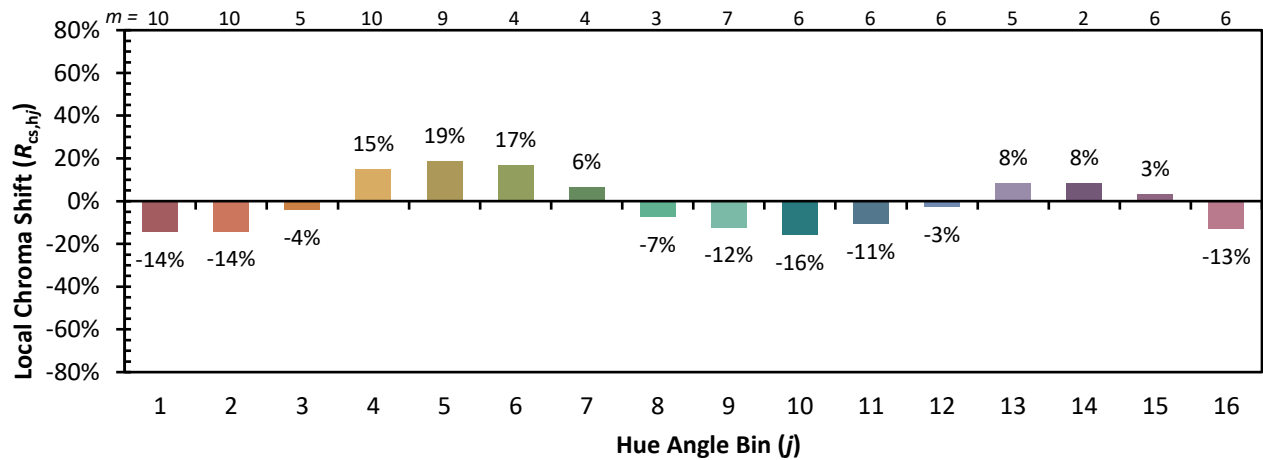


Individual Sample Fidelity Index ($R_{f,i}$)

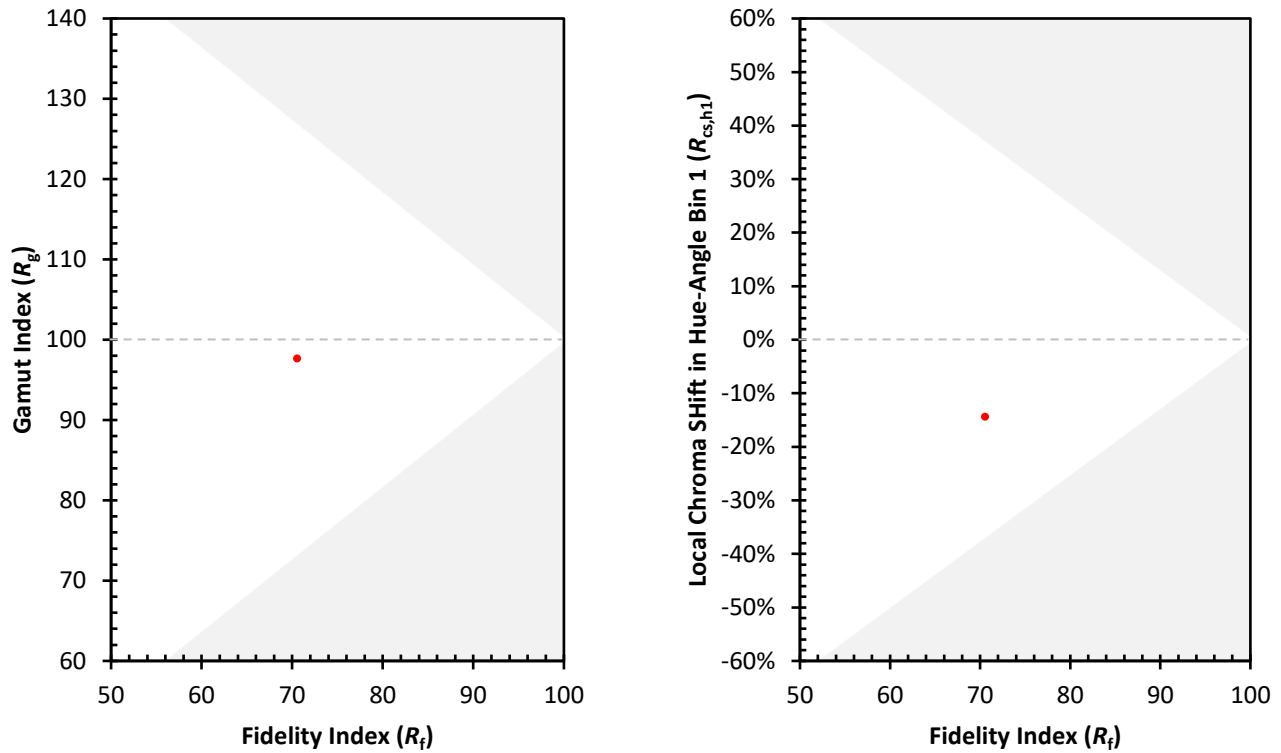
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)