

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: P1049513

Luminaire Tested: **GALN-SA5A-722-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049513
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11867.2 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

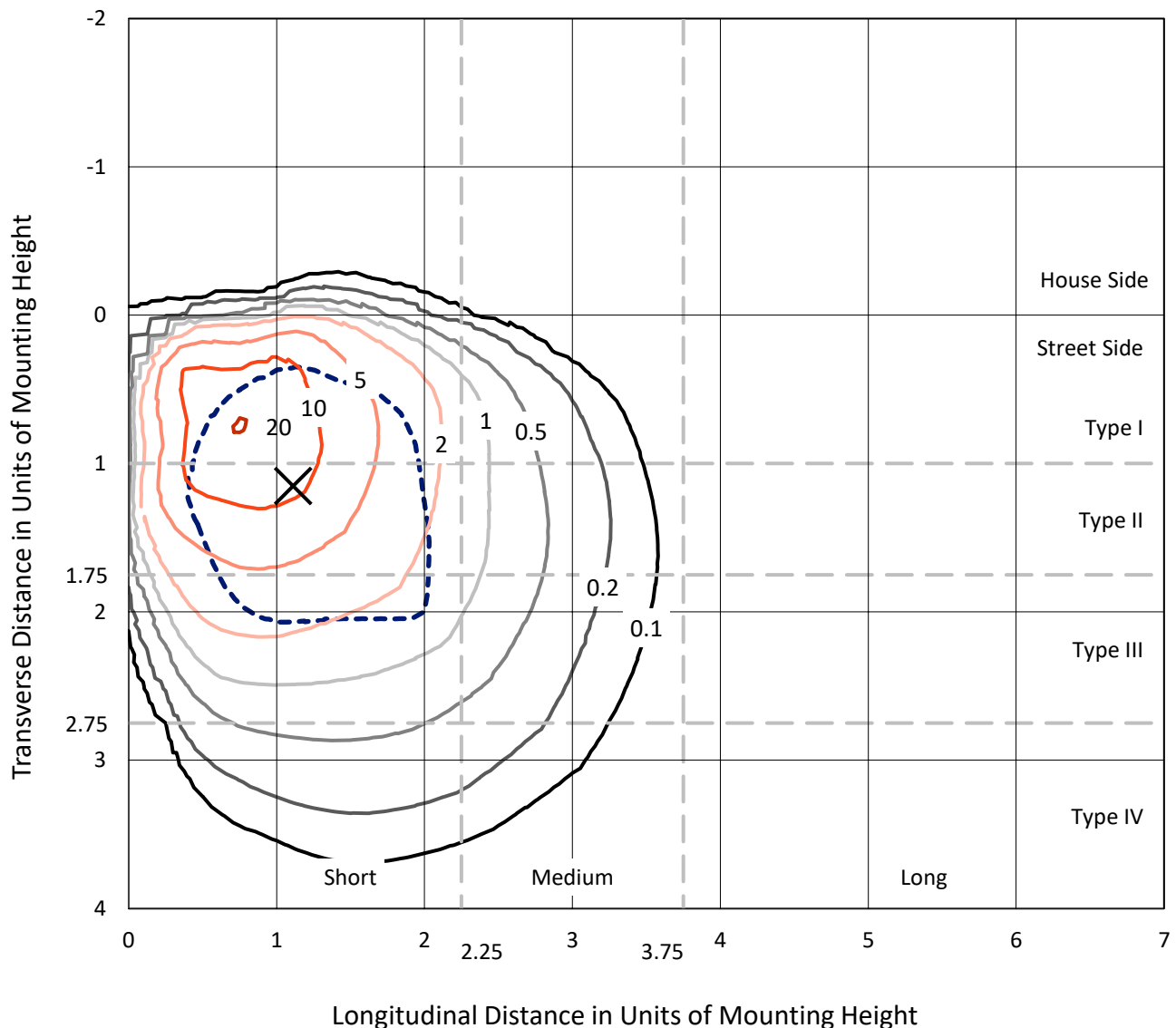
Input Watts (W): 136.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

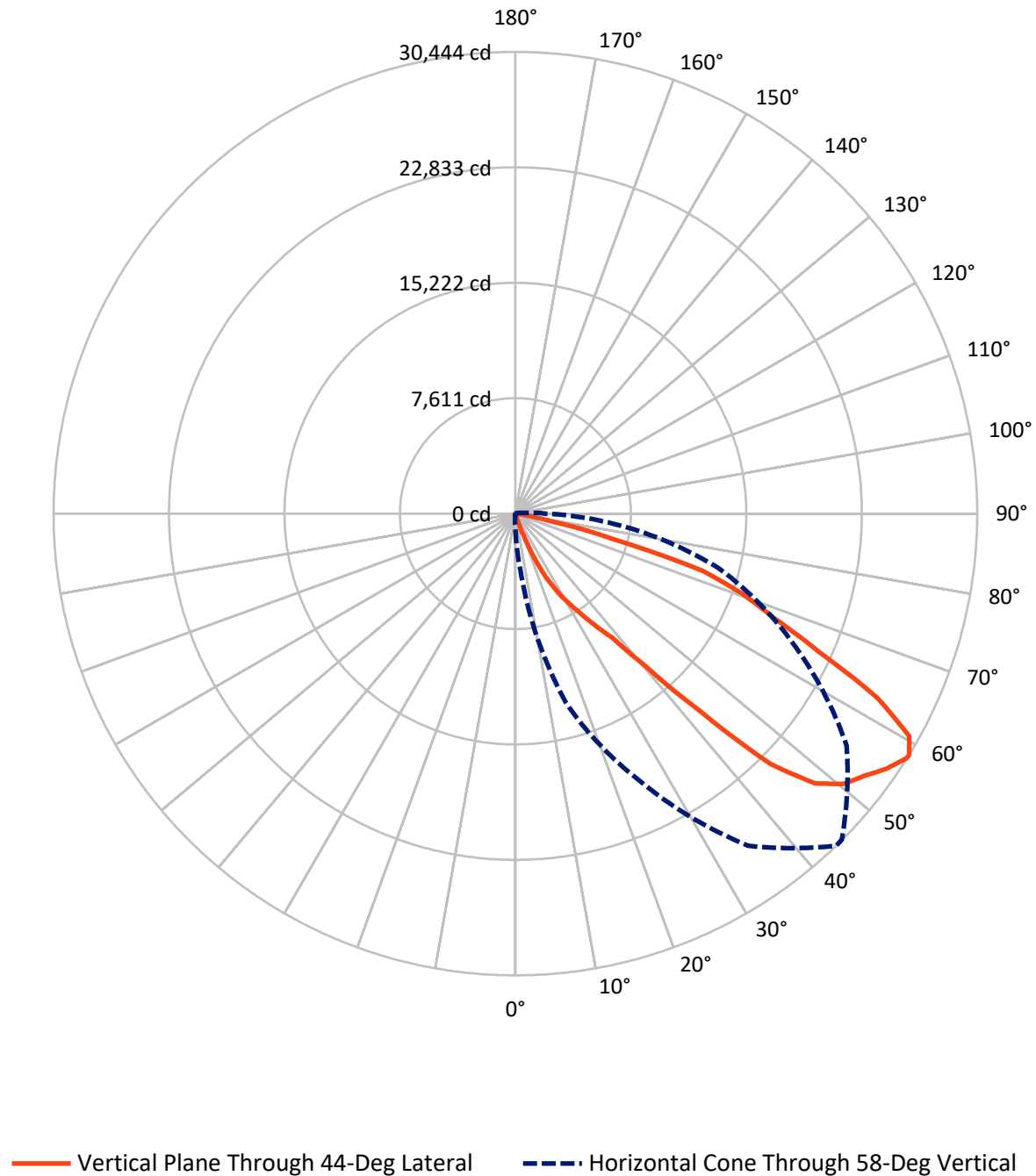
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.7 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	81.0	0.0	81.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	11786.1	0.0	11786.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	11867.2	0.0	11867.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.0
10°-20°	26.0	0.2
20°-30°	281.1	2.4
30°-40°	831.4	7.0
40°-50°	2478.1	20.9
50°-60°	3932.1	33.1
60°-70°	3279.8	27.6
70°-80°	1011.5	8.5
80°-90°	22.5	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°	11867.2	100.0
0°-180°	11867.2	100.0



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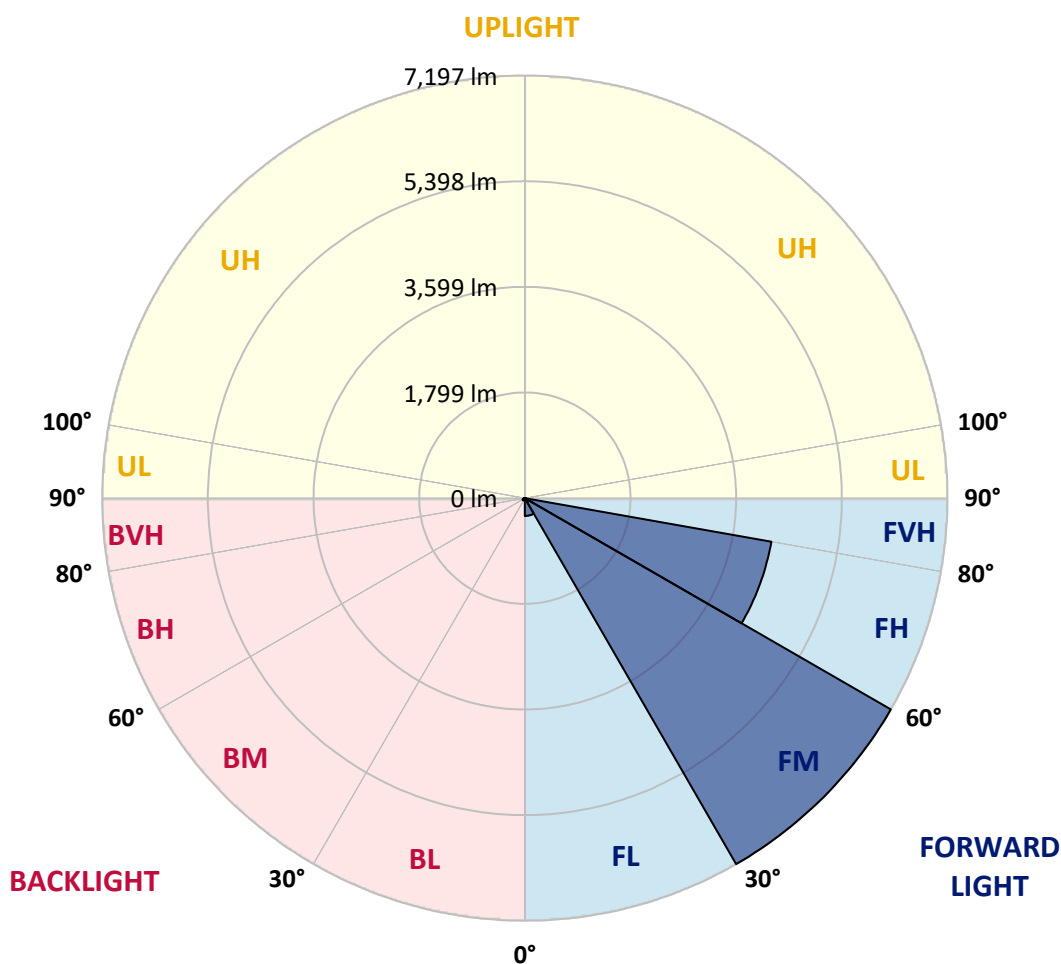
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	303.9	2.6			
FM	(30°-60°)	7197.2	60.6			
FH	(60°-80°)	4263.7	35.9			G2/5000
FVH	(80°-90°)	21.4	0.2			G1/100
BL	(0°-30°)	7.9	0.1	B0/110		
BM	(30°-60°)	44.3	0.4	B0/220		
BH	(60°-80°)	27.7	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	85°
0°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
2.5°	67.2	67.2	64.5	61.0	57.4	53.8	52.9	51.1	50.2	49.3	48.4
5°	69.9	69.9	69.0	66.3	62.8	60.1	60.1	57.4	55.6	53.8	52.0
7.5°	71.7	72.6	74.4	73.5	71.7	69.0	69.0	67.2	64.5	60.1	57.4
10°	74.4	77.1	80.7	82.5	83.4	83.4	82.5	81.6	77.1	70.8	63.6
12.5°	77.1	82.5	91.4	100.4	105.8	113.0	112.1	110.3	98.6	85.2	72.6
15°	82.5	90.5	109.4	135.4	175.7	200.8	210.7	201.7	163.2	114.7	84.3
17.5°	88.7	102.2	158.7	283.3	464.4	550.4	602.4	560.3	371.1	217.8	105.8
20°	95.0	124.6	294.9	734.2	1204.8	1486.3	1564.3	1442.4	926.0	415.1	156.9
22.5°	105.8	174.8	597.9	1517.7	2596.2	3018.4	3098.2	2708.2	1749.0	819.4	235.8
25°	128.2	253.7	1030.9	2473.3	3874.5	4587.2	4554.0	4043.1	2837.3	1308.8	358.6
27.5°	160.5	369.3	1559.0	3514.1	5099.1	5727.5	5802.8	5170.8	3782.2	1924.7	509.2
30°	207.1	511.9	2125.5	4347.9	6080.7	6760.2	6772.8	6119.3	4627.5	2465.3	693.9
32.5°	251.9	646.4	2621.3	5153.8	7048.0	7793.0	7848.5	7044.4	5258.7	3028.3	854.3
35°	286.0	734.2	3123.3	5862.0	8023.4	9049.8	9046.2	8091.5	6006.3	3531.2	1076.7
37.5°	288.7	822.1	3577.8	6586.3	9258.7	10407.9	10521.8	9469.4	6909.9	4153.3	1349.2
40°	282.4	920.7	4153.3	7715.9	11484.6	13247.9	13348.4	12021.6	8722.6	5218.3	1775.0
42.5°	289.6	1091.9	5087.4	9801.9	15180.7	17713.2	17906.9	16512.0	12054.8	7391.3	2534.3
45°	327.2	1413.7	7044.4	13291.9	20449.2	23536.7	23472.1	21463.1	15932.0	10699.3	4036.8
47.5°	451.8	2201.7	9945.4	16688.6	23816.4	26565.8	26621.4	24166.0	18194.6	13242.6	6060.1
50°	694.8	3368.9	12382.9	18484.2	25264.2	28022.6	27970.6	25133.3	19054.3	14494.9	7299.9
52.5°	903.6	4213.4	13605.6	19114.4	25449.7	28742.4	28738.8	25387.9	19187.9	14602.5	7455.0
55°	955.6	4277.0	13615.5	19148.5	25865.7	29684.6	29803.0	26014.5	19360.9	14132.8	6871.4
57.5°	935.0	3786.7	13047.1	19345.7	26606.2	30413.4	30419.7	26621.4	19800.2	13845.0	5905.0
58°	917.1	3709.6	12932.4	19457.8	26733.5	30443.9	30428.7	26649.2	20157.9	13834.2	5753.5
60°	816.7	3221.0	12485.1	19743.7	26544.3	29818.2	29675.7	26042.3	20105.0	13724.0	4990.6
62.5°	641.9	2512.8	12044.9	19412.9	24516.5	26789.0	26848.2	23056.2	18328.2	13081.2	4091.5
65°	511.0	1872.7	11126.9	17028.3	20188.4	21999.2	22219.8	18748.7	15298.2	11076.7	3016.6
67.5°	407.0	1353.7	9334.0	13557.2	15975.0	18360.5	18521.0	15741.0	11852.2	8486.8	2143.4
70°	330.8	915.3	6442.9	9914.9	13176.2	15858.5	15868.3	13076.7	8846.3	5560.8	1344.7
72.5°	293.1	633.8	3740.0	7230.9	10684.1	12922.5	12661.7	10611.4	6798.8	3293.6	801.4
75°	253.7	420.4	1834.2	4420.5	6477.9	6521.8	6621.3	4922.5	3398.5	1566.1	480.5
77.5°	208.9	298.5	722.6	1207.5	1942.6	2486.8	2579.1	1954.3	1130.4	385.5	256.4
80°	143.4	141.6	194.5	370.2	555.8	696.6	649.9	502.9	295.8	147.9	91.4
82.5°	61.9	67.2	87.9	105.8	86.1	83.4	79.8	51.1	39.4	30.5	18.8
85°	19.7	17.9	18.8	18.8	15.2	11.7	11.7	5.4	0.0	0.0	0.0
87.5°	9.9	8.1	8.1	7.2	4.5	1.8	0.9	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°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
2.5°	47.5	47.5	45.7	43.9	43.0	41.2	40.3	39.4	38.5	37.7	36.8
5°	50.2	49.3	46.6	43.9	41.2	38.5	36.8	35.0	33.2	32.3	31.4
7.5°	54.7	52.9	47.5	43.0	39.4	35.9	34.1	31.4	29.6	26.9	26.0
10°	60.1	56.5	49.3	43.9	38.5	34.1	31.4	28.7	26.0	22.4	21.5
12.5°	67.2	61.0	52.0	43.0	36.8	31.4	28.7	25.1	22.4	19.7	17.9
15°	73.5	65.4	52.9	43.0	35.0	28.7	25.1	21.5	18.8	15.2	13.4
17.5°	82.5	69.0	52.0	40.3	32.3	25.1	21.5	18.8	14.3	9.0	7.2
20°	97.7	71.7	50.2	37.7	27.8	20.6	16.1	12.6	6.3	1.8	0.0
22.5°	121.9	78.9	48.4	34.1	24.2	16.1	10.8	4.5	0.0	0.0	0.0
25°	168.5	91.4	48.4	32.3	21.5	11.7	3.6	0.0	0.0	0.0	0.0
27.5°	224.1	108.5	48.4	27.8	17.0	6.3	0.0	0.0	0.0	0.0	0.0
30°	280.6	127.3	48.4	24.2	13.4	0.9	0.0	0.0	0.0	0.0	0.0
32.5°	334.4	143.4	49.3	20.6	9.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	389.1	146.1	48.4	17.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	459.0	140.7	45.7	16.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	564.8	143.4	43.0	15.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	760.2	155.1	39.4	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1314.2	208.0	35.9	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2173.9	373.8	35.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2774.6	470.6	36.8	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2770.1	524.4	38.5	17.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0
55°	2462.6	534.3	41.2	19.7	11.7	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2058.3	487.7	47.5	24.2	21.5	0.0	0.0	0.0	0.0	0.0	0.0
58°	1986.6	466.2	49.3	25.1	23.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	1628.0	380.1	62.8	31.4	31.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1124.2	331.7	71.7	40.3	32.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	795.2	299.4	78.0	43.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	594.4	276.1	86.1	43.9	13.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	455.4	259.1	105.8	46.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	371.1	239.4	128.2	48.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	307.5	216.0	123.7	52.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	204.4	167.6	113.0	52.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	71.7	66.3	87.9	46.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.8	9.0	12.6	16.1	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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
2.5°	36.8	36.8	35.9	36.8	36.8	38.5	43.0	49.3	56.5	59.2	61.9
5°	30.5	29.6	28.7	28.7	28.7	31.4	35.0	42.1	50.2	53.8	55.6
7.5°	25.1	24.2	23.3	22.4	22.4	24.2	28.7	36.8	44.8	48.4	51.1
10°	20.6	18.8	17.9	17.0	17.0	18.8	23.3	31.4	40.3	43.9	47.5
12.5°	17.0	14.3	12.6	11.7	10.8	13.4	17.9	25.1	35.0	39.4	43.0
15°	11.7	9.0	6.3	5.4	4.5	7.2	11.7	19.7	29.6	35.0	38.5
17.5°	6.3	2.7	0.9	0.0	0.0	1.8	5.4	14.3	24.2	28.7	33.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	17.9	22.4	26.9
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	10.8	15.2	19.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.1	11.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.4
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	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.2	9.9
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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CATALOG NUMBER: GALN-SA5A-722-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
2.5°	63.6	62.8	61.0	59.2	59.2	59.2	61.9	64.5	67.2	67.2
5°	59.2	59.2	58.3	56.5	56.5	57.4	61.0	65.4	69.0	69.9
7.5°	54.7	56.5	54.7	53.8	54.7	55.6	59.2	64.5	69.9	71.7
10°	52.0	52.9	52.9	52.0	52.0	53.8	57.4	64.5	71.7	74.4
12.5°	48.4	50.2	49.3	49.3	49.3	51.1	55.6	63.6	73.5	77.1
15°	44.8	47.5	47.5	46.6	46.6	47.5	53.8	62.8	76.2	82.5
17.5°	41.2	43.9	44.8	43.0	43.0	44.8	51.1	62.8	78.0	88.7
20°	34.1	38.5	41.2	38.5	38.5	40.3	46.6	59.2	78.9	95.0
22.5°	26.9	31.4	35.0	34.1	34.1	35.0	43.0	56.5	79.8	105.8
25°	19.7	24.2	26.9	28.7	28.7	31.4	39.4	54.7	83.4	128.2
27.5°	11.7	17.0	20.6	22.4	23.3	26.9	36.8	52.9	89.6	160.5
30°	5.4	9.9	14.3	17.9	17.9	24.2	34.1	51.1	97.7	207.1
32.5°	0.0	4.5	7.2	12.6	13.4	19.7	31.4	49.3	109.4	251.9
35°	0.0	0.0	3.6	9.9	9.9	16.1	28.7	47.5	127.3	286.0
37.5°	0.0	0.0	0.0	7.2	8.1	14.3	27.8	46.6	130.9	288.7
40°	0.0	0.0	0.0	5.4	6.3	13.4	27.8	47.5	118.3	282.4
42.5°	0.0	0.0	0.0	3.6	4.5	13.4	27.8	49.3	106.7	289.6
45°	0.0	0.0	0.0	2.7	3.6	14.3	26.9	48.4	100.4	327.2
47.5°	0.0	0.0	0.0	3.6	5.4	14.3	26.0	47.5	101.3	451.8
50°	0.0	0.0	0.0	4.5	6.3	14.3	26.9	45.7	111.2	694.8
52.5°	0.0	0.0	0.0	3.6	5.4	16.1	29.6	44.8	121.0	903.6
55°	0.0	0.0	0.0	0.9	2.7	20.6	32.3	44.8	136.3	955.6
57.5°	0.0	0.0	0.0	0.0	0.0	23.3	36.8	47.5	161.4	935.0
58°	0.0	0.0	0.0	0.0	0.0	23.3	41.2	52.9	175.7	816.7
60°	0.0	0.0	0.0	0.0	0.0	23.3	41.2	52.9	175.7	816.7
62.5°	0.0	0.0	0.0	0.0	0.0	19.7	49.3	66.3	182.9	641.9
65°	0.0	0.0	0.0	0.0	0.0	16.1	58.3	72.6	188.3	511.0
67.5°	0.0	0.0	0.0	0.0	0.0	15.2	60.1	73.5	190.9	407.0
70°	0.0	0.0	0.0	0.0	0.0	16.1	59.2	78.9	199.9	330.8
72.5°	0.0	0.0	0.0	0.0	0.0	17.9	53.8	87.0	199.9	293.1
75°	0.0	0.0	0.0	0.0	0.0	18.8	50.2	97.7	182.0	253.7
77.5°	0.0	0.0	0.0	0.0	0.0	17.9	49.3	113.9	162.3	208.9
80°	1.8	2.7	2.7	1.8	1.8	15.2	48.4	115.6	138.1	143.4
82.5°	5.4	7.2	6.3	4.5	4.5	13.4	43.0	96.8	71.7	61.9
85°	9.9	11.7	11.7	9.9	9.9	12.6	26.9	35.0	24.2	19.7
87.5°	13.4	15.2	15.2	13.4	13.4	12.6	11.7	10.8	9.9	9.9
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

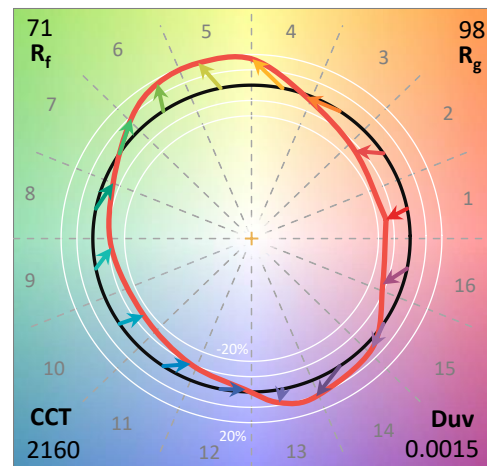
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

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

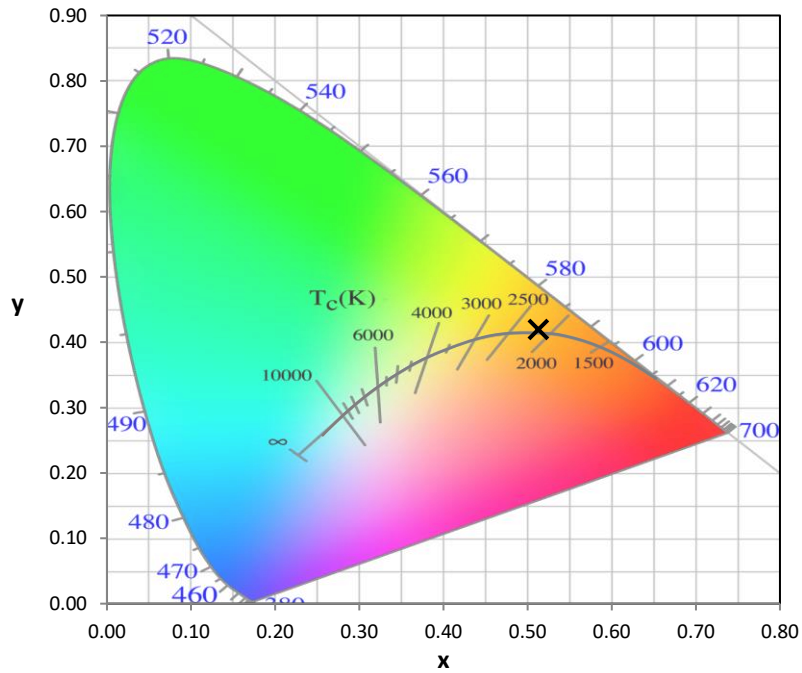
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

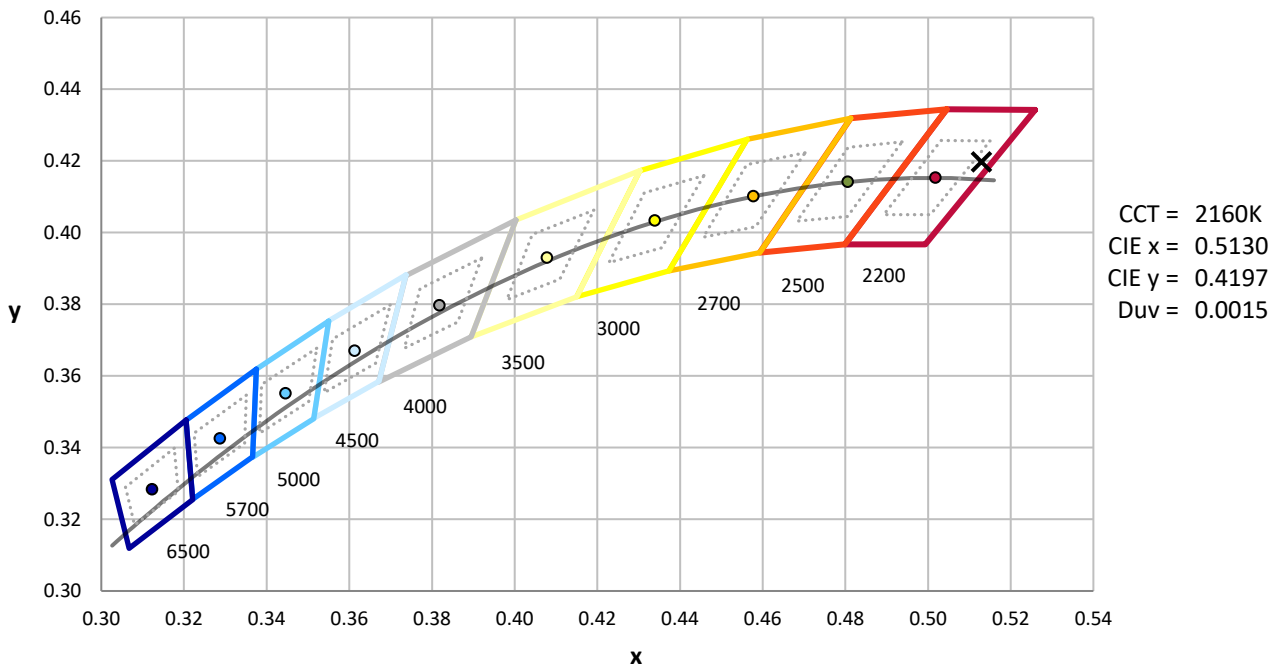
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



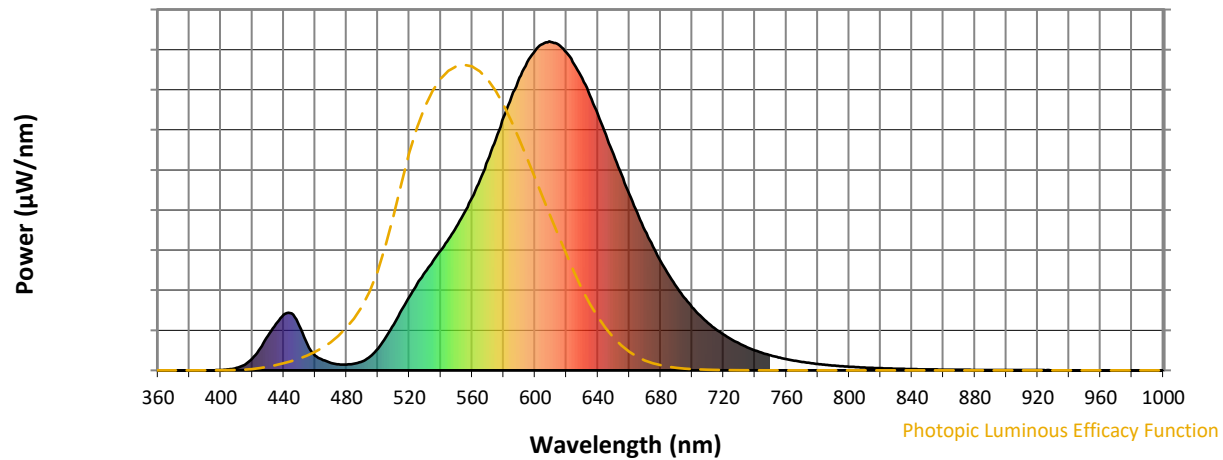
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

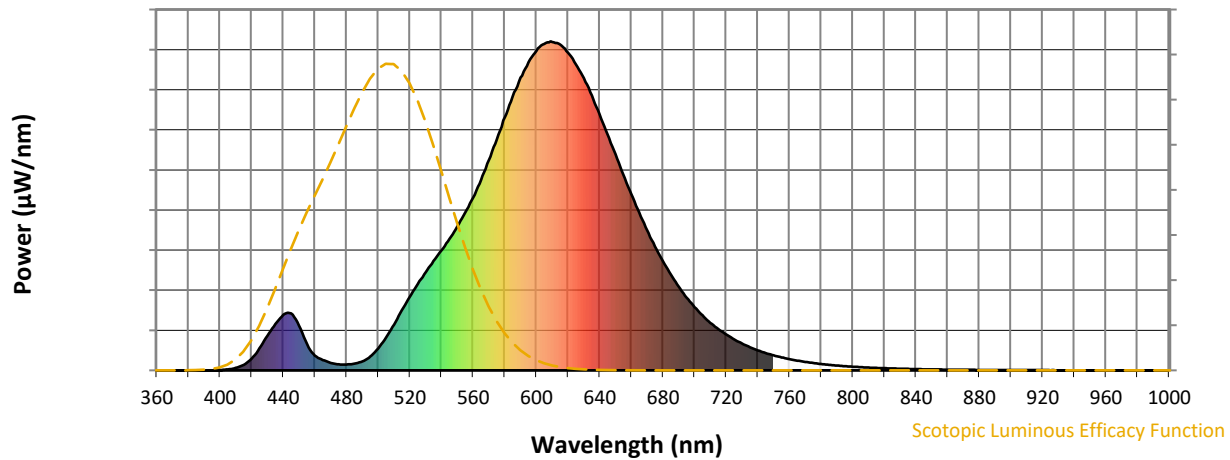


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

Scotopic Flux vs. Wavelength



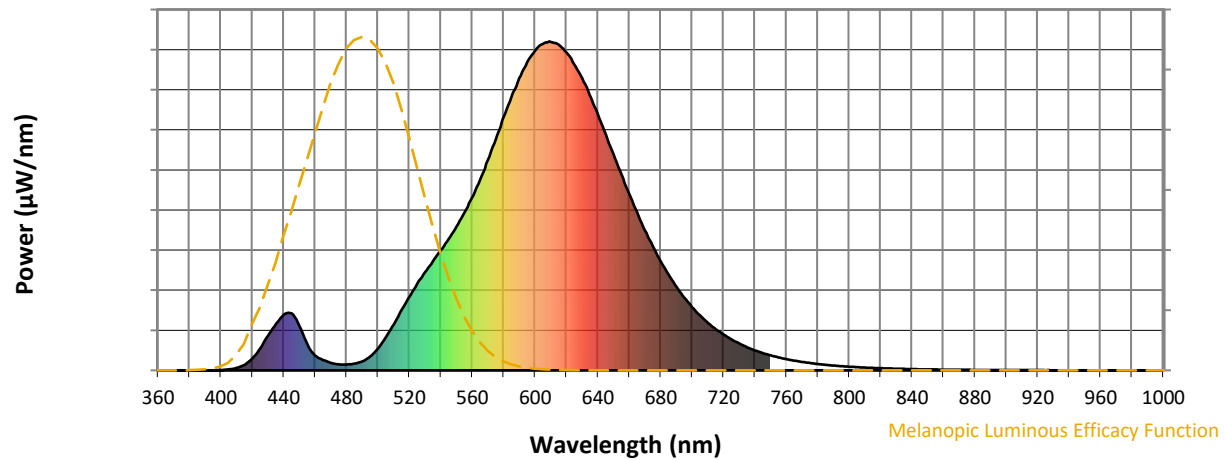
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

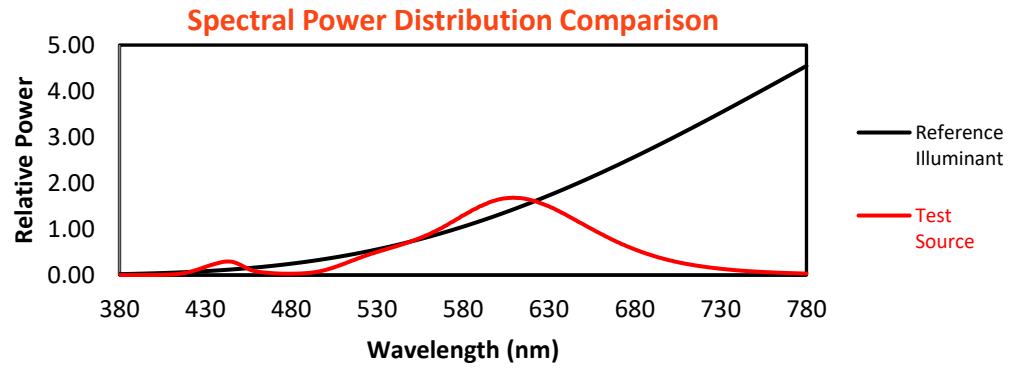
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	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

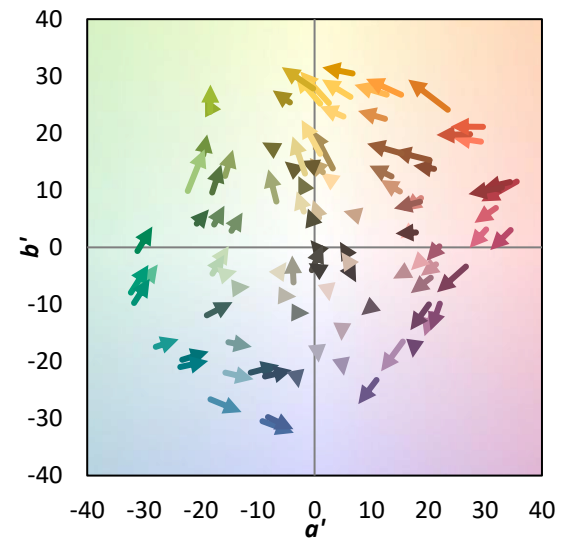
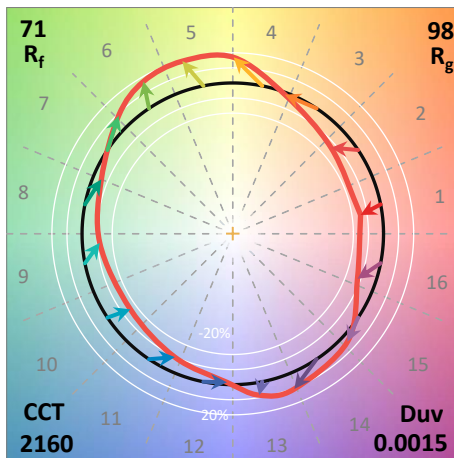
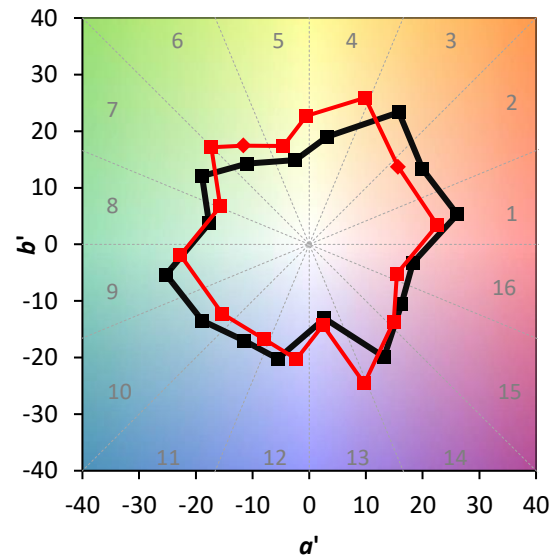
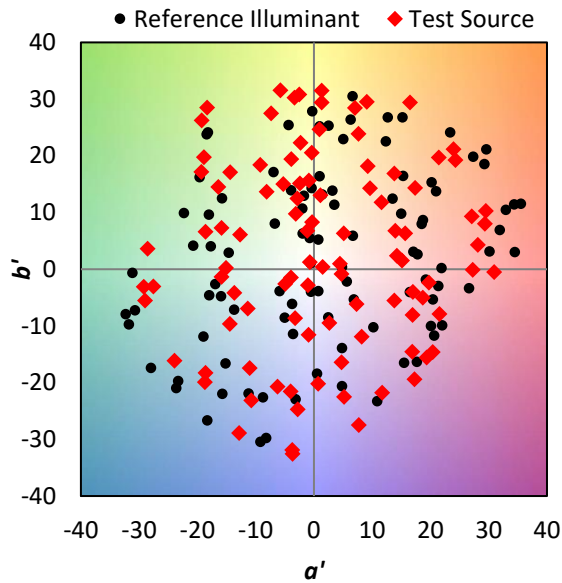
TM-30-18

Summary

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

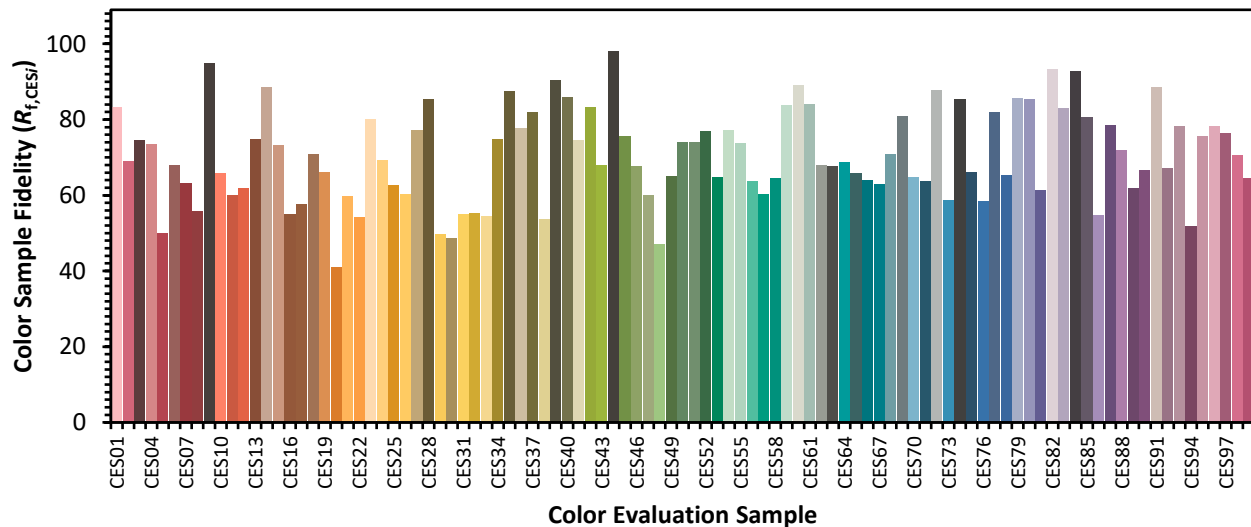


Color Vector Graphics

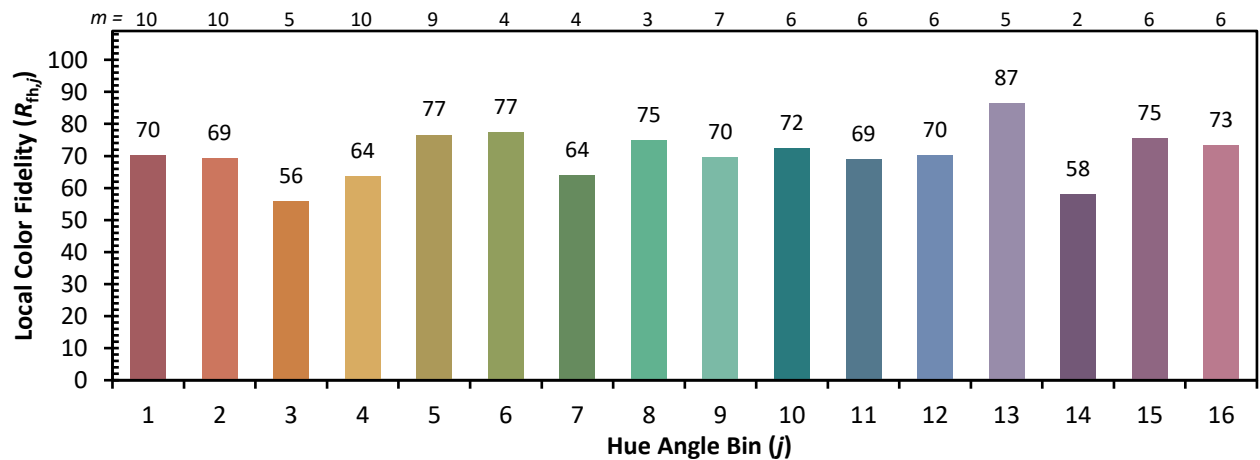
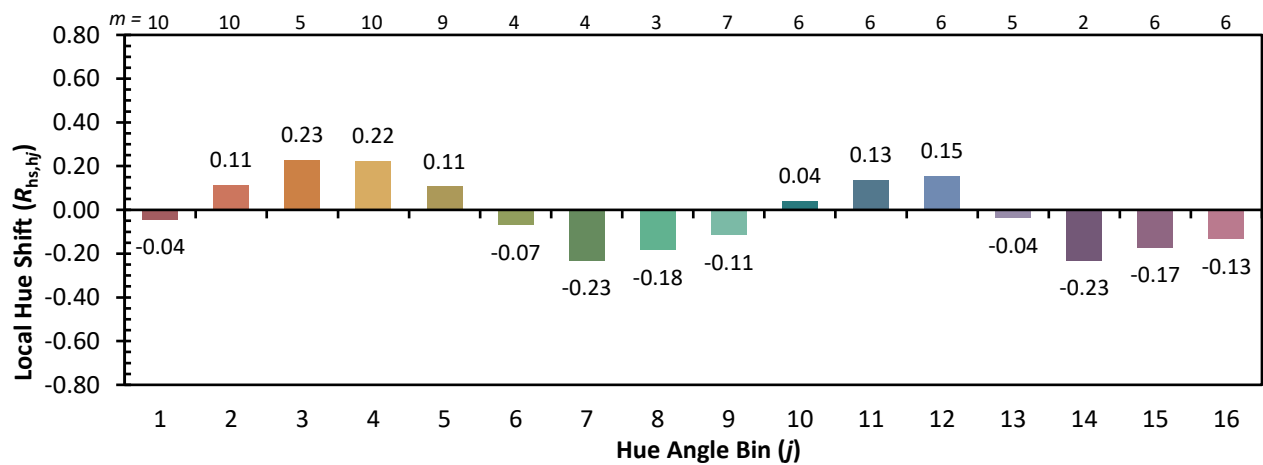
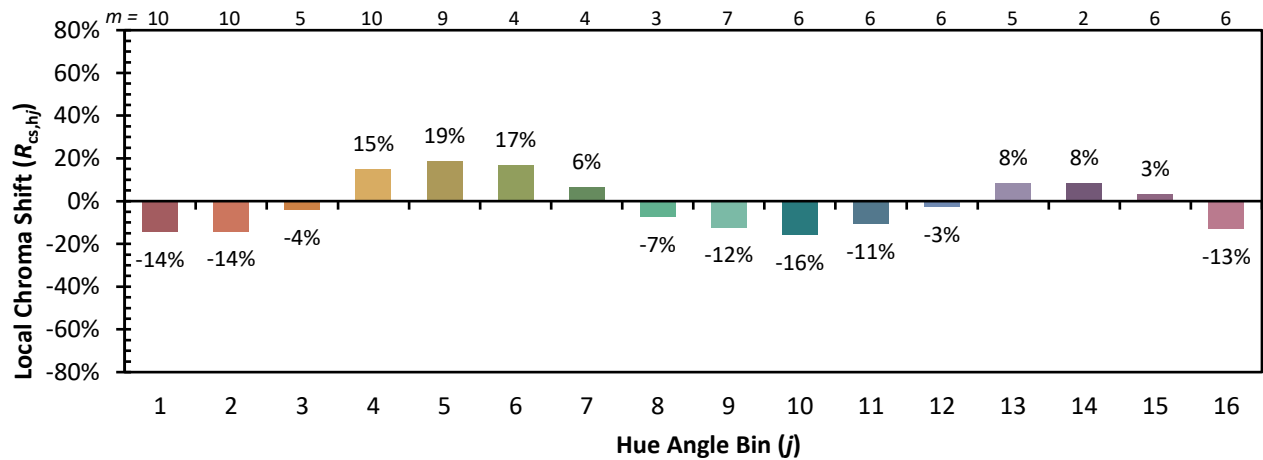


Individual Sample Fidelity Index ($R_{f,i}$)

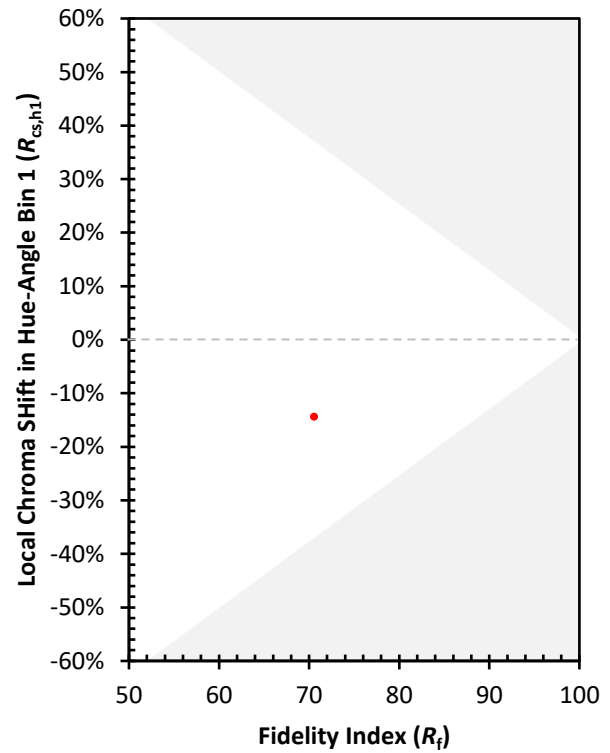
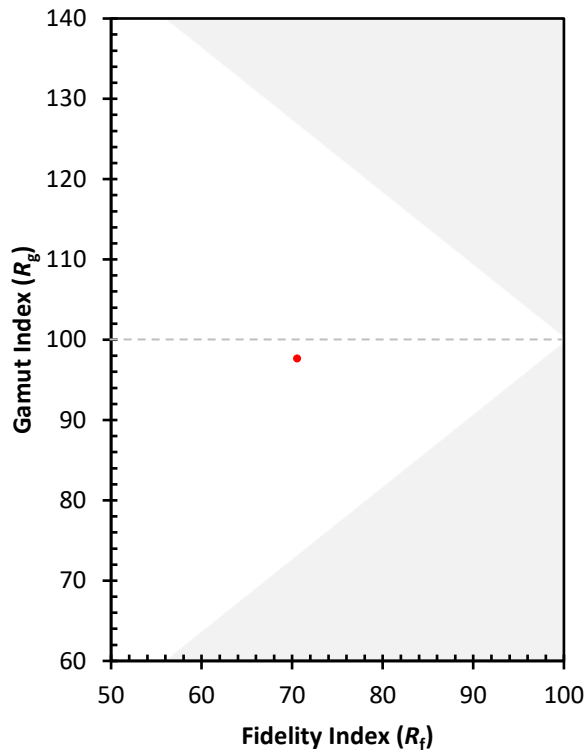
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 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)