

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: P1049566

Luminaire Tested: **GALN-SA9B-727-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049566
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 9xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

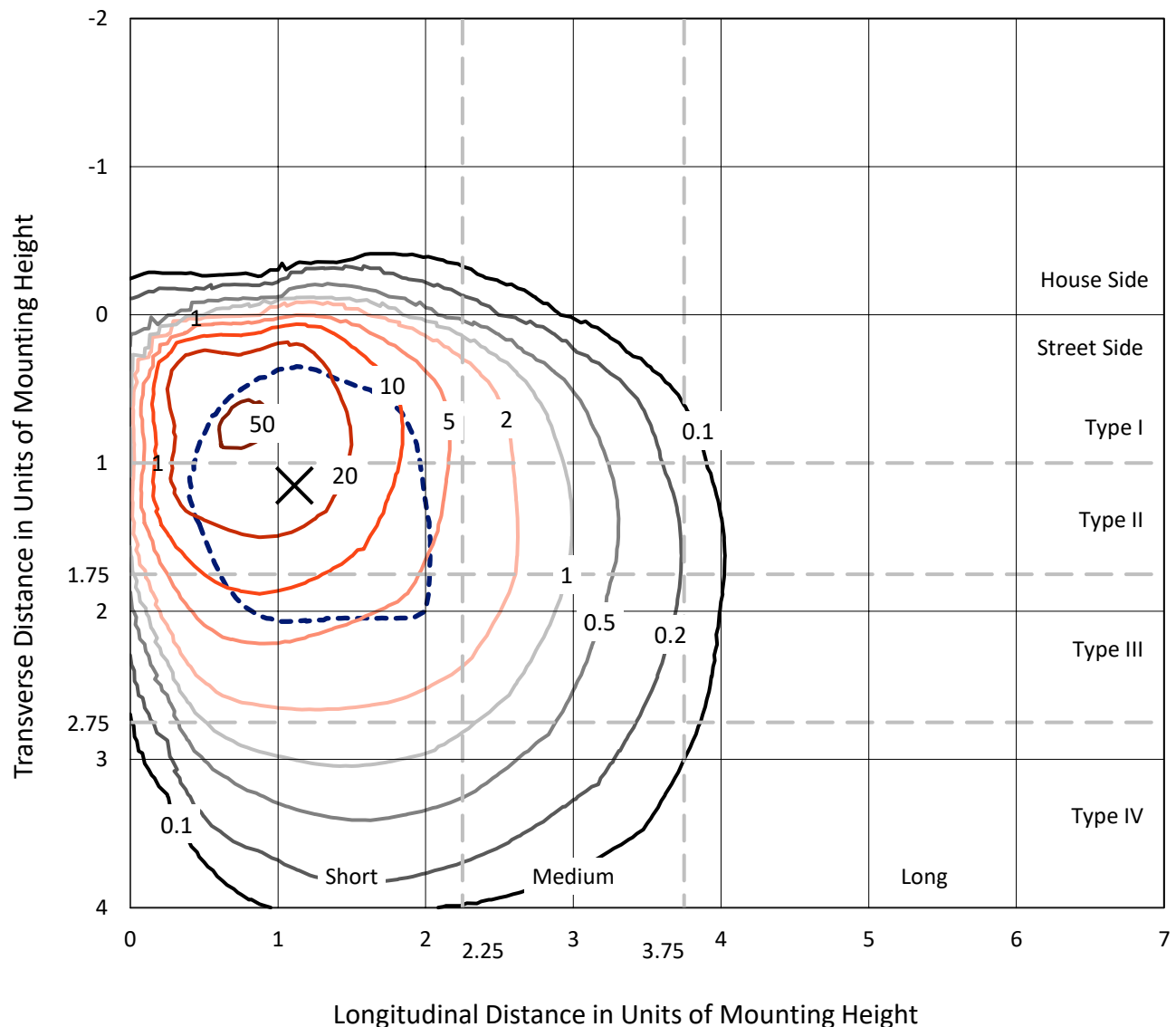
Lumens per Lamp: N/A
Luminaire Lumens: 32844.8 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 312.7
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

REPORT NUMBER: P1049566
 CATALOG NUMBER: GALN-SA9B-727-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

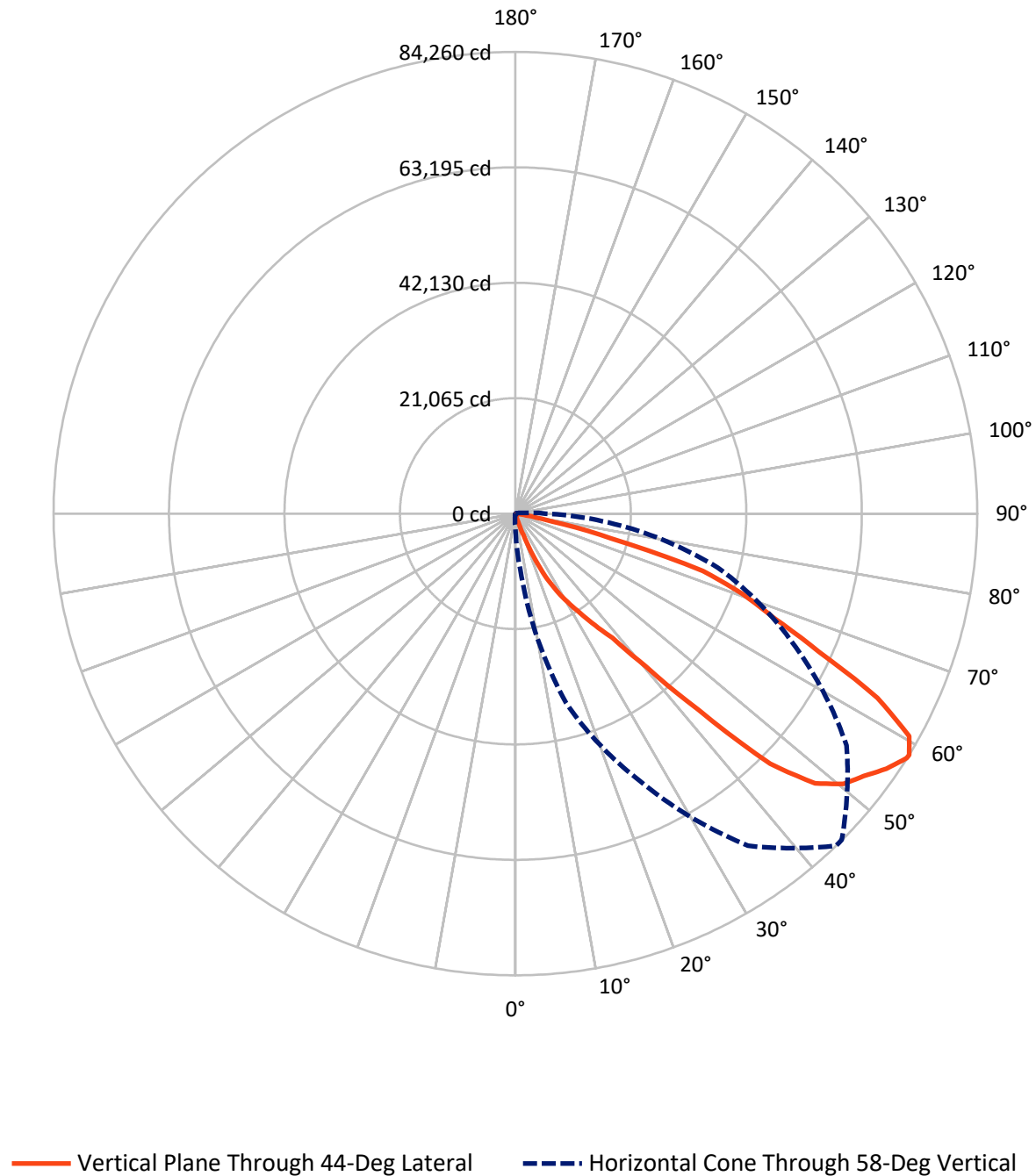
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 57.2 fc
 Type III - Short - N/A

REPORT NUMBER: P1049566
CATALOG NUMBER: GALN-SA9B-727-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049566

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	224.3	0.0	224.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	32620.6	0.0	32620.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	32844.8	0.0	32844.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	0.0
10°-20°	72.0	0.2
20°-30°	778.1	2.4
30°-40°	2301.1	7.0
40°-50°	6858.5	20.9
50°-60°	10882.8	33.1
60°-70°	9077.6	27.6
70°-80°	2799.7	8.5
80°-90°	62.2	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°	32844.8	100.0
0°-180°	32844.8	100.0



REPORT NUMBER: P1049566

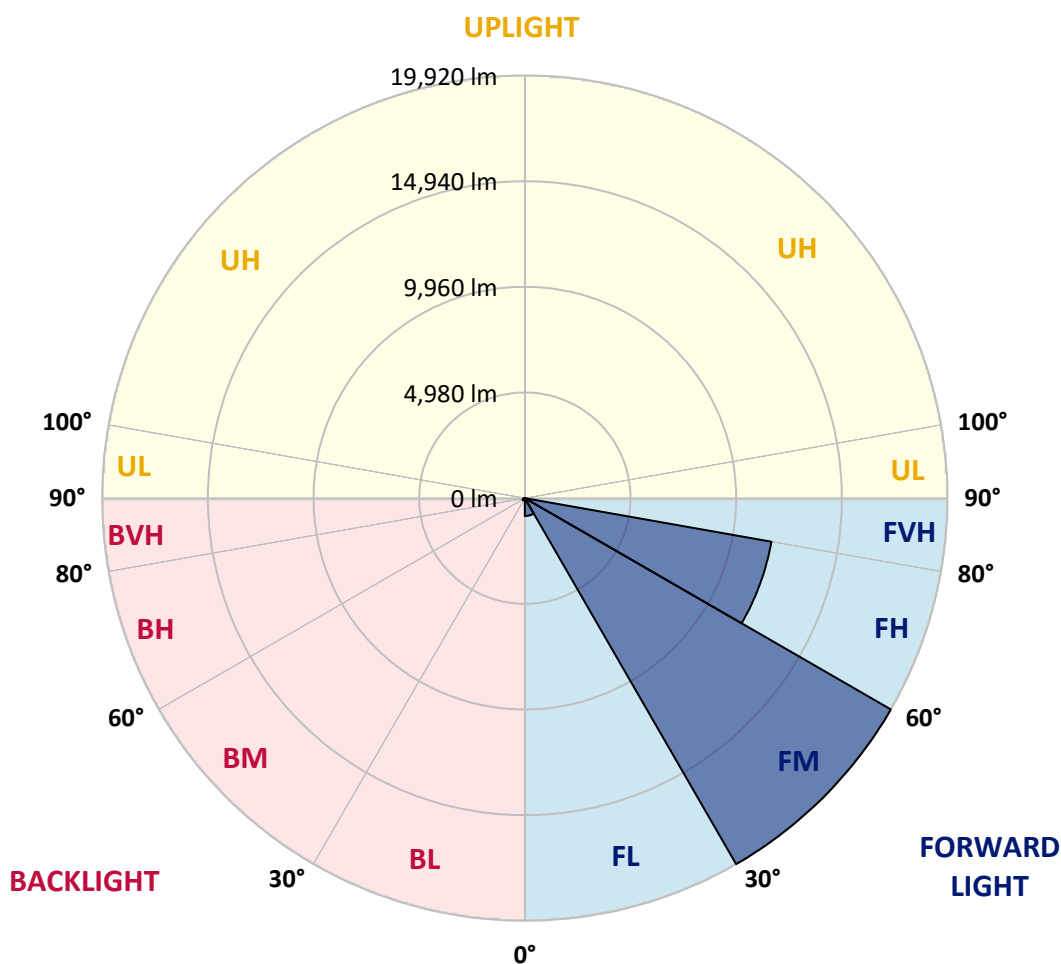
CATALOG NUMBER: GALN-SA9B-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	841.0	2.6			
FM	(30°-60°)	19919.7	60.6			
FH	(60°-80°)	11800.7	35.9			G4/12000
FVH	(80°-90°)	59.2	0.2			G1/100
BL	(0°-30°)	21.9	0.1	B0/110		
BM	(30°-60°)	122.7	0.4	B0/220		
BH	(60°-80°)	76.6	0.2	B0/110		G0/110
BVH	(80°-90°)	3.0	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-G4

Type III Short





REPORT NUMBER: P1049566

CATALOG NUMBER: GALN-SA9B-727-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9
2.5°	186.1	186.1	178.6	168.7	158.8	148.9	146.4	141.4	138.9	136.5	134.0
5°	193.5	193.5	191.0	183.6	173.7	166.2	166.2	158.8	153.8	148.9	143.9
7.5°	198.5	201.0	205.9	203.5	198.5	191.0	191.0	186.1	178.6	166.2	158.8
10°	205.9	213.4	223.3	228.3	230.7	230.7	228.3	225.8	213.4	196.0	176.2
12.5°	213.4	228.3	253.1	277.9	292.8	312.6	310.1	305.2	272.9	235.7	201.0
15°	228.3	250.6	302.7	374.7	486.3	555.8	583.1	558.3	451.6	317.6	233.2
17.5°	245.6	282.9	439.2	784.0	1285.2	1523.4	1667.3	1550.7	1027.2	602.9	292.8
20°	263.0	344.9	816.3	2032.1	3334.7	4113.7	4329.6	3992.2	2563.0	1148.8	434.2
22.5°	292.8	483.8	1654.9	4200.6	7185.4	8354.0	8574.8	7495.5	4840.7	2267.8	652.5
25°	354.8	702.2	2853.3	6845.5	10723.5	12696.0	12604.2	11190.0	7852.8	3622.5	992.5
27.5°	444.1	1022.2	4314.7	9726.1	14112.8	15852.1	16060.5	14311.3	10468.0	5327.0	1409.3
30°	573.1	1416.7	5882.8	12033.6	16829.6	18710.3	18745.1	16936.3	12807.7	6823.2	1920.4
32.5°	697.2	1788.9	7254.9	14264.1	19506.8	21568.6	21722.4	19496.9	14554.4	8381.3	2364.5
35°	791.5	2032.1	8644.3	16224.2	22206.3	25047.2	25037.3	22394.8	16623.7	9773.2	2979.9
37.5°	798.9	2275.2	9902.3	18229.0	25625.3	28806.1	29121.2	26208.4	19124.7	11495.2	3734.1
40°	781.6	2548.1	11495.2	21355.2	31786.0	36666.4	36944.3	33272.2	24141.6	14442.8	4912.7
42.5°	801.4	3022.0	14080.5	27128.9	42015.8	49025.0	49560.9	45700.3	33364.0	20457.1	7014.2
45°	905.6	3912.8	19496.9	36788.0	56597.5	65142.5	64963.9	59403.6	44095.0	29612.5	11172.6
47.5°	1250.5	6093.7	27525.9	46189.0	65916.6	73526.3	73680.2	66884.3	50357.4	36651.5	16772.6
50°	1922.9	9324.2	34272.1	51158.8	69923.7	77558.2	77414.3	69561.5	52736.8	40117.7	20204.0
52.5°	2501.0	11661.4	37656.4	52903.0	70437.3	79550.6	79540.6	70266.1	53106.5	40415.4	20633.2
55°	2644.9	11837.6	37683.7	52997.3	71588.6	82158.2	82485.8	72000.4	53585.3	39115.3	19018.0
57.5°	2587.8	10480.4	36110.6	53543.2	73638.0	84175.4	84192.8	73680.2	54801.1	38318.8	16343.3
58°	2538.2	10267.0	35793.0	53853.3	73990.3	84259.8	84217.6	73757.1	55791.1	38289.1	15924.0
60°	2260.3	8914.8	34554.9	54644.8	73466.8	82527.9	82133.4	72077.3	55644.7	37983.9	13812.5
62.5°	1776.5	6954.7	33336.7	53729.3	67854.4	74144.1	74307.9	63812.6	50727.1	36204.9	11324.0
65°	1414.3	5183.1	30796.0	47129.4	55875.4	60887.4	61497.7	51890.7	42340.8	30657.1	8349.1
67.5°	1126.4	3746.5	25833.7	37522.4	44214.0	50816.4	51260.5	43566.5	32803.3	23489.0	5932.4
70°	915.5	2533.3	17832.0	27441.5	36467.9	43891.5	43918.8	36192.5	24484.0	15390.6	3721.7
72.5°	811.3	1754.2	10351.3	20012.9	29570.3	35765.7	35043.7	29369.3	18817.0	9115.7	2218.1
75°	702.2	1163.7	5076.4	12234.5	17928.8	18050.3	18325.8	13624.0	9406.0	4334.6	1329.9
77.5°	578.1	826.2	1999.8	3342.1	5376.6	6882.7	7138.3	5408.9	3128.7	1066.9	709.6
80°	397.0	392.0	538.4	1024.7	1538.3	1927.9	1798.8	1391.9	818.8	409.4	253.1
82.5°	171.2	186.1	243.2	292.8	238.2	230.7	220.8	141.4	109.2	84.4	52.1
85°	54.6	49.6	52.1	52.1	42.2	32.3	32.3	14.9	0.0	0.0	0.0
87.5°	27.3	22.3	22.3	19.8	12.4	5.0	2.5	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



REPORT NUMBER: P1049566

CATALOG NUMBER: GALN-SA9B-727-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9
2.5°	131.5	131.5	126.5	121.6	119.1	114.1	111.7	109.2	106.7	104.2	101.7
5°	138.9	136.5	129.0	121.6	114.1	106.7	101.7	96.8	91.8	89.3	86.8
7.5°	151.4	146.4	131.5	119.1	109.2	99.2	94.3	86.8	81.9	74.4	72.0
10°	166.2	156.3	136.5	121.6	106.7	94.3	86.8	79.4	72.0	62.0	59.5
12.5°	186.1	168.7	143.9	119.1	101.7	86.8	79.4	69.5	62.0	54.6	49.6
15°	203.5	181.1	146.4	119.1	96.8	79.4	69.5	59.5	52.1	42.2	37.2
17.5°	228.3	191.0	143.9	111.7	89.3	69.5	59.5	52.1	39.7	24.8	19.8
20°	270.4	198.5	138.9	104.2	76.9	57.1	44.7	34.7	17.4	5.0	0.0
22.5°	337.4	218.3	134.0	94.3	67.0	44.7	29.8	12.4	0.0	0.0	0.0
25°	466.5	253.1	134.0	89.3	59.5	32.3	9.9	0.0	0.0	0.0	0.0
27.5°	620.3	300.2	134.0	76.9	47.1	17.4	0.0	0.0	0.0	0.0	0.0
30°	776.6	352.3	134.0	67.0	37.2	2.5	0.0	0.0	0.0	0.0	0.0
32.5°	925.5	397.0	136.5	57.1	24.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	1076.8	404.4	134.0	49.6	14.9	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1270.3	389.5	126.5	44.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	1563.1	397.0	119.1	42.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2104.0	429.2	109.2	42.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3637.4	575.6	99.2	44.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6016.8	1034.6	96.8	44.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7679.2	1302.6	101.7	47.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7666.7	1451.5	106.7	49.6	9.9	0.0	0.0	0.0	0.0	0.0	0.0
55°	6815.7	1478.8	114.1	54.6	32.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5696.7	1349.7	131.5	67.0	59.5	0.0	0.0	0.0	0.0	0.0	0.0
58°	5498.2	1290.2	136.5	69.5	64.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	4505.8	1052.0	173.7	86.8	86.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3111.4	918.0	198.5	111.7	89.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	2200.8	828.7	215.9	119.1	72.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1645.0	764.2	238.2	121.6	37.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1260.4	717.1	292.8	129.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1027.2	662.5	354.8	134.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	851.0	598.0	342.4	146.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	565.7	464.0	312.6	146.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	198.5	183.6	243.2	129.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.8	24.8	34.7	44.7	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



REPORT NUMBER: P1049566

CATALOG NUMBER: GALN-SA9B-727-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9
2.5°	101.7	101.7	99.2	101.7	101.7	106.7	119.1	136.5	156.3	163.8	171.2
5°	84.4	81.9	79.4	79.4	79.4	86.8	96.8	116.6	138.9	148.9	153.8
7.5°	69.5	67.0	64.5	62.0	62.0	67.0	79.4	101.7	124.1	134.0	141.4
10°	57.1	52.1	49.6	47.1	47.1	52.1	64.5	86.8	111.7	121.6	131.5
12.5°	47.1	39.7	34.7	32.3	29.8	37.2	49.6	69.5	96.8	109.2	119.1
15°	32.3	24.8	17.4	14.9	12.4	19.8	32.3	54.6	81.9	96.8	106.7
17.5°	17.4	7.4	2.5	0.0	0.0	5.0	14.9	39.7	67.0	79.4	91.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	49.6	62.0	74.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	29.8	42.2	54.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	22.3	32.3
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	14.9
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	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	14.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.8	27.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1049566

CATALOG NUMBER: GALN-SA9B-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9
2.5°	176.2	173.7	168.7	163.8	163.8	163.8	171.2	178.6	186.1	186.1
5°	163.8	163.8	161.3	156.3	156.3	158.8	168.7	181.1	191.0	193.5
7.5°	151.4	156.3	151.4	148.9	151.4	153.8	163.8	178.6	193.5	198.5
10°	143.9	146.4	146.4	143.9	143.9	148.9	158.8	178.6	198.5	205.9
12.5°	134.0	138.9	136.5	136.5	136.5	141.4	153.8	176.2	203.5	213.4
15°	124.1	131.5	131.5	129.0	129.0	131.5	148.9	173.7	210.9	228.3
17.5°	114.1	121.6	124.1	119.1	119.1	124.1	141.4	173.7	215.9	245.6
20°	94.3	106.7	114.1	106.7	106.7	111.7	129.0	163.8	218.3	263.0
22.5°	74.4	86.8	96.8	94.3	94.3	96.8	119.1	156.3	220.8	292.8
25°	54.6	67.0	74.4	79.4	79.4	86.8	109.2	151.4	230.7	354.8
27.5°	32.3	47.1	57.1	62.0	64.5	74.4	101.7	146.4	248.1	444.1
30°	14.9	27.3	39.7	49.6	49.6	67.0	94.3	141.4	270.4	573.1
32.5°	0.0	12.4	19.8	34.7	37.2	54.6	86.8	136.5	302.7	697.2
35°	0.0	0.0	9.9	27.3	27.3	44.7	79.4	131.5	352.3	791.5
37.5°	0.0	0.0	0.0	19.8	22.3	39.7	76.9	129.0	362.2	798.9
40°	0.0	0.0	0.0	14.9	17.4	37.2	76.9	131.5	327.5	781.6
42.5°	0.0	0.0	0.0	9.9	12.4	37.2	76.9	136.5	295.3	801.4
45°	0.0	0.0	0.0	7.4	9.9	39.7	74.4	134.0	277.9	905.6
47.5°	0.0	0.0	0.0	9.9	14.9	39.7	72.0	131.5	280.4	1250.5
50°	0.0	0.0	0.0	12.4	17.4	39.7	74.4	126.5	307.7	1922.9
52.5°	0.0	0.0	0.0	9.9	14.9	44.7	81.9	124.1	335.0	2501.0
55°	0.0	0.0	0.0	2.5	7.4	57.1	89.3	124.1	377.1	2644.9
57.5°	0.0	0.0	0.0	0.0	0.0	64.5	101.7	131.5	446.6	2587.8
58°	0.0	0.0	0.0	0.0	0.0	64.5	104.2	131.5	451.6	2538.2
60°	0.0	0.0	0.0	0.0	0.0	64.5	114.1	146.4	486.3	2260.3
62.5°	0.0	0.0	0.0	0.0	0.0	54.6	136.5	183.6	506.2	1776.5
65°	0.0	0.0	0.0	0.0	0.0	44.7	161.3	201.0	521.0	1414.3
67.5°	0.0	0.0	0.0	0.0	0.0	42.2	166.2	203.5	528.5	1126.4
70°	0.0	0.0	0.0	0.0	0.0	44.7	163.8	218.3	553.3	915.5
72.5°	0.0	0.0	0.0	0.0	0.0	49.6	148.9	240.7	553.3	811.3
75°	0.0	0.0	0.0	0.0	0.0	52.1	138.9	270.4	503.7	702.2
77.5°	0.0	0.0	0.0	0.0	0.0	49.6	136.5	315.1	449.1	578.1
80°	5.0	7.4	7.4	5.0	5.0	42.2	134.0	320.1	382.1	397.0
82.5°	14.9	19.8	17.4	12.4	12.4	37.2	119.1	268.0	198.5	171.2
85°	27.3	32.3	32.3	27.3	27.3	34.7	74.4	96.8	67.0	54.6
87.5°	37.2	42.2	42.2	37.2	37.2	34.7	32.3	29.8	27.3	27.3
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

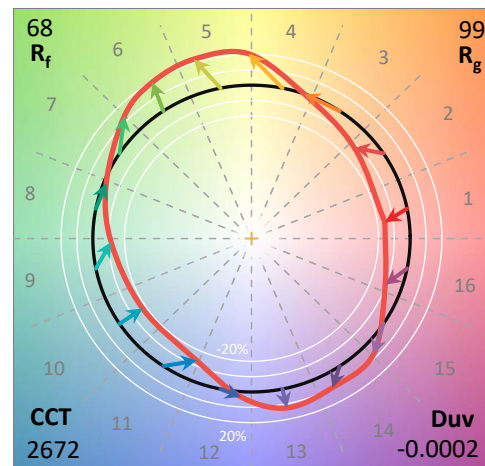
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

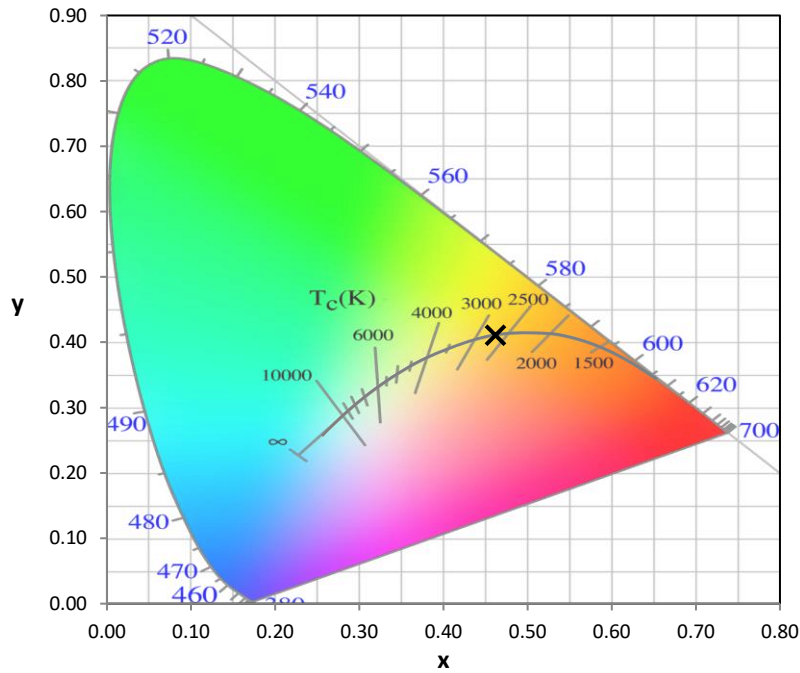
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

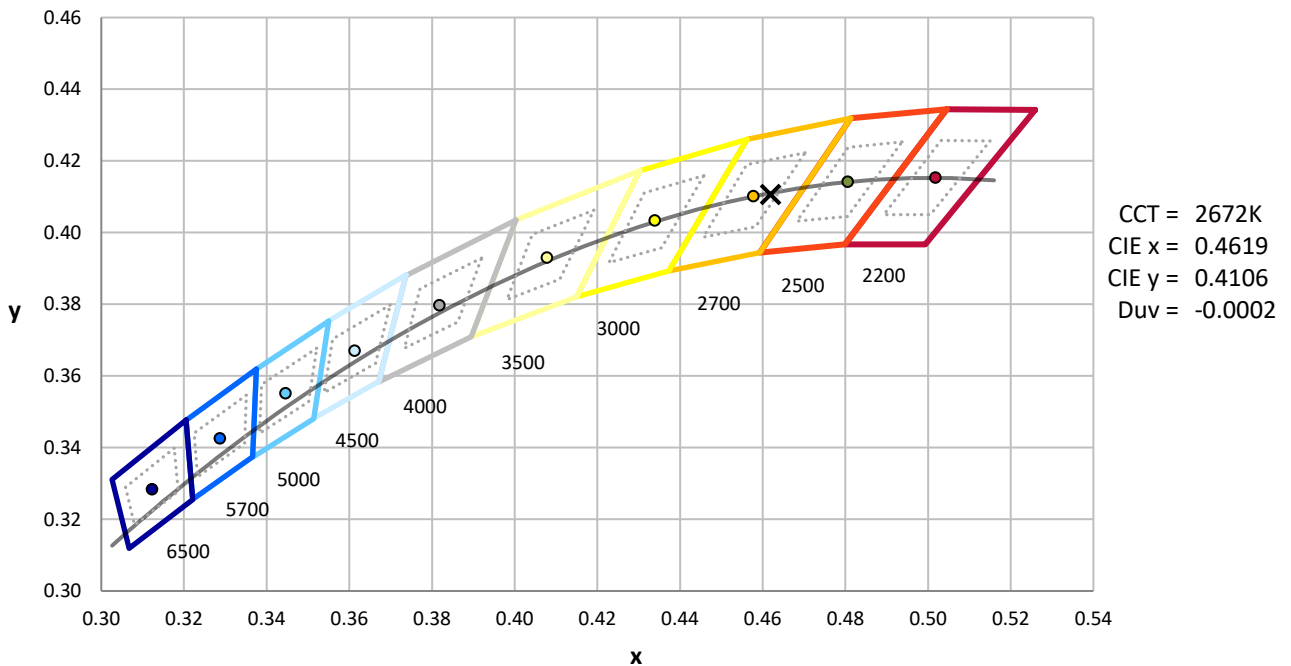
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-3

CIE 1931 Chromaticity Diagram



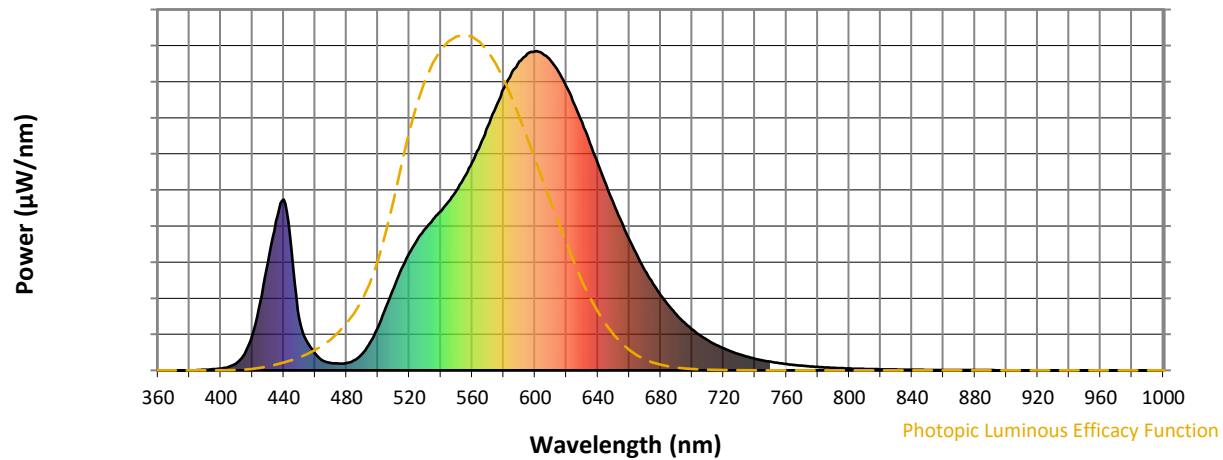
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

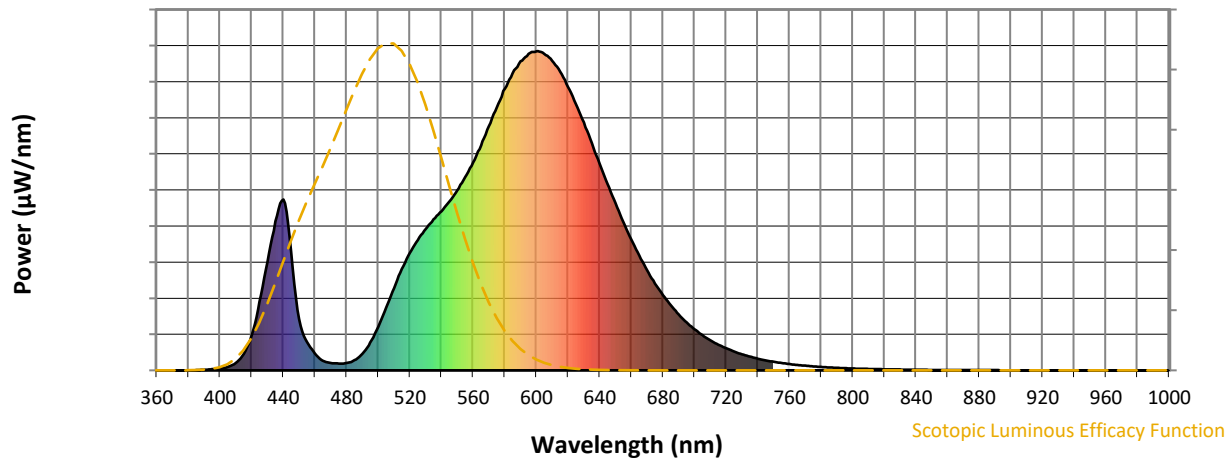


Photopic Lumens: NR

λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



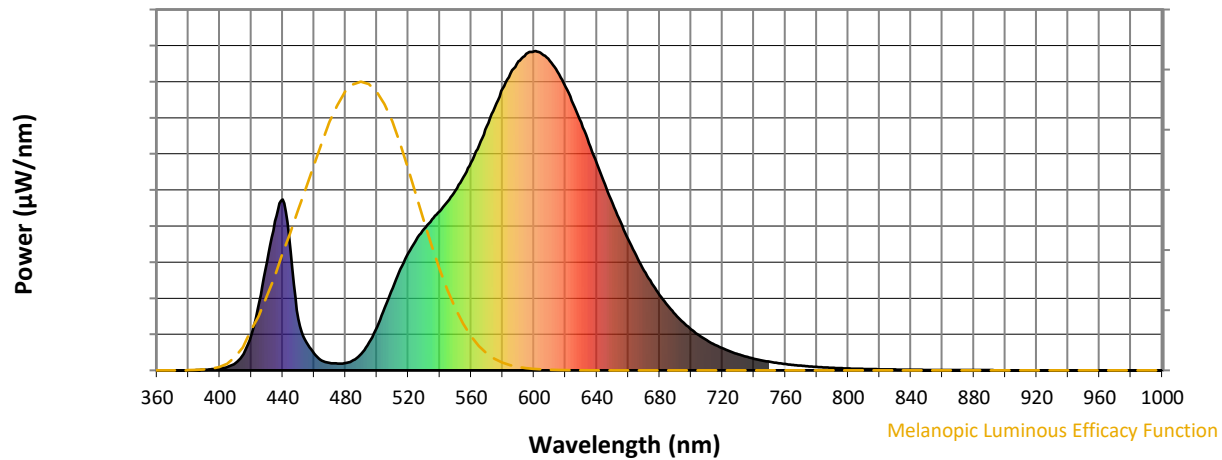
Scotopic Lumens: NR

S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

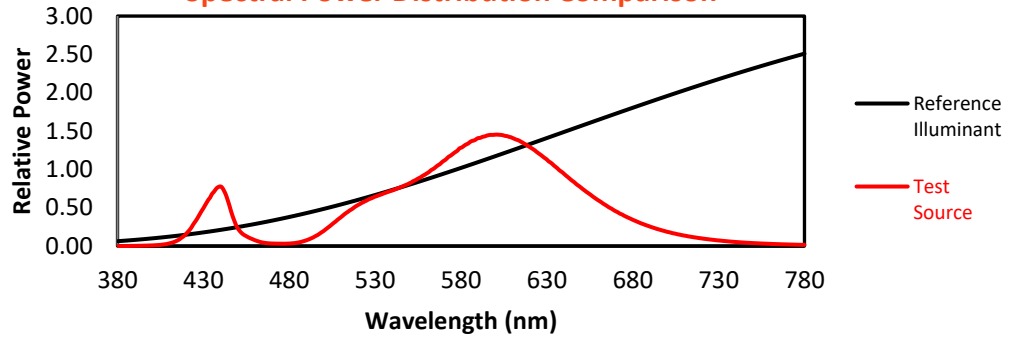
REPORT NUMBER: SP1-2407-184-3

TM-30-18

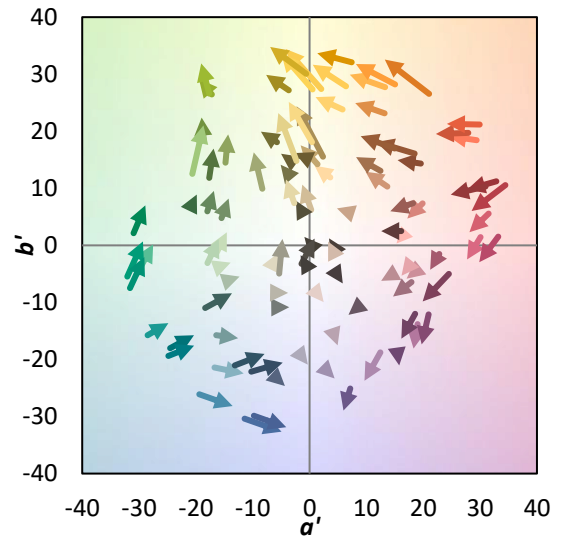
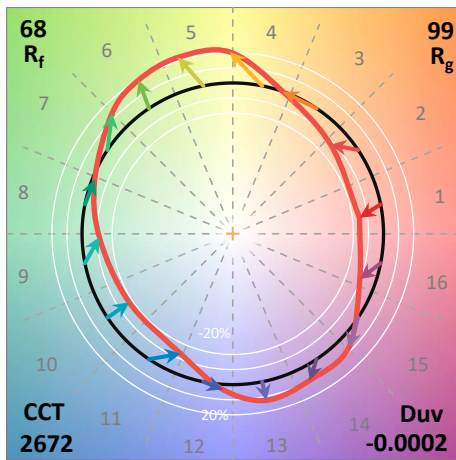
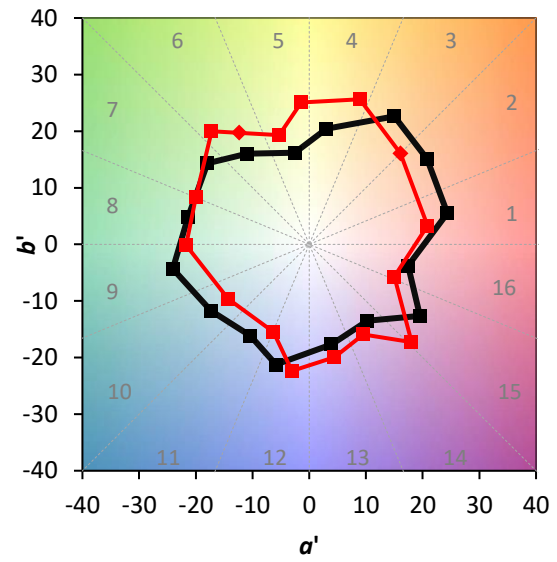
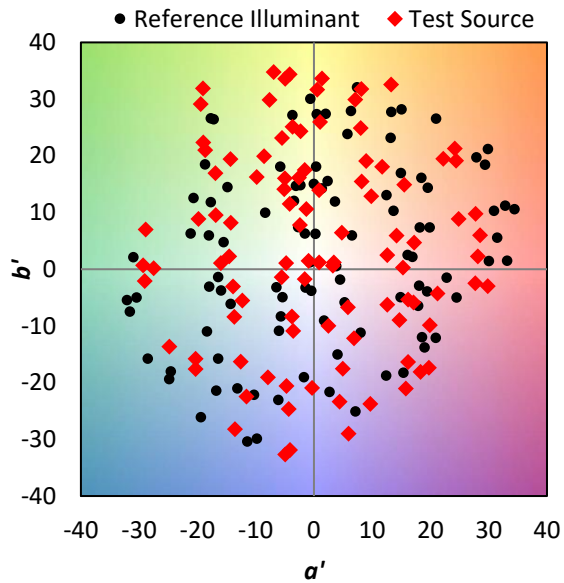
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

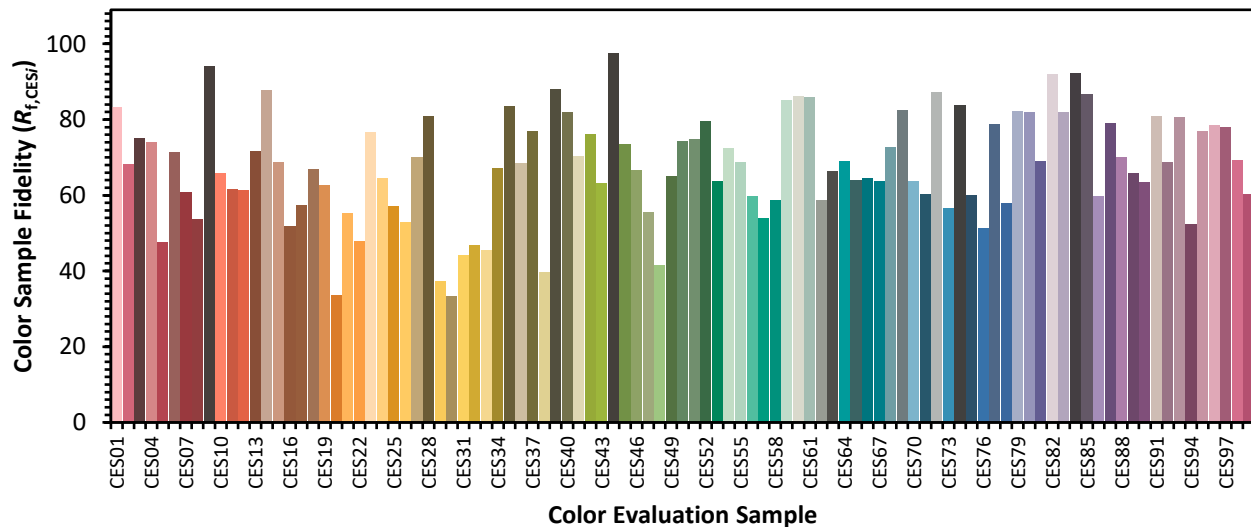


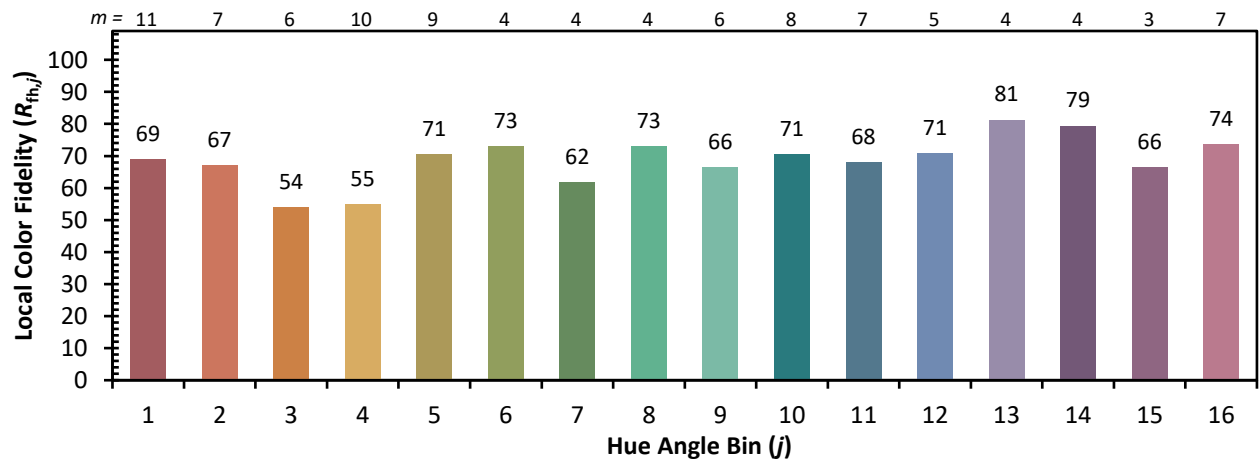
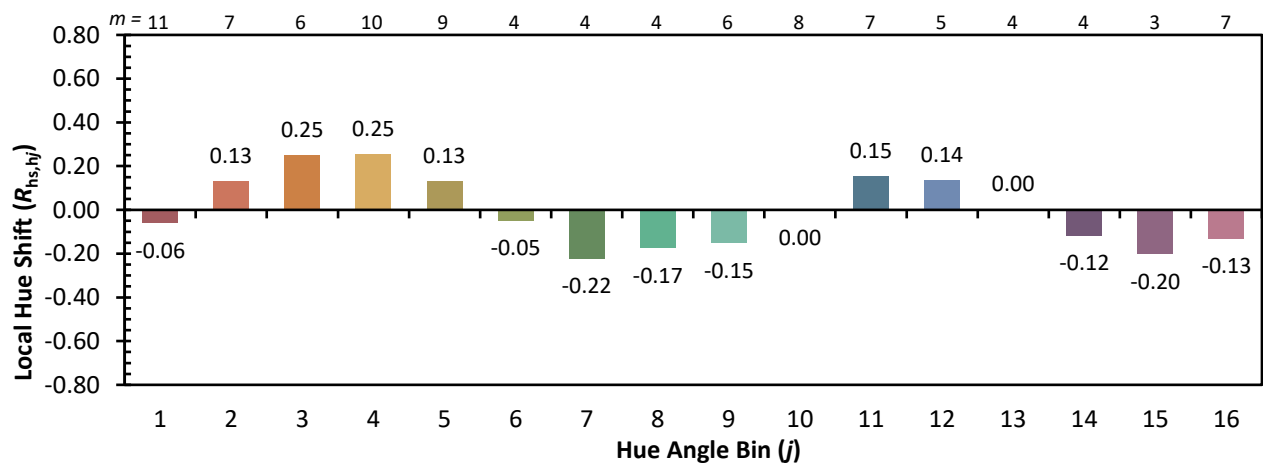
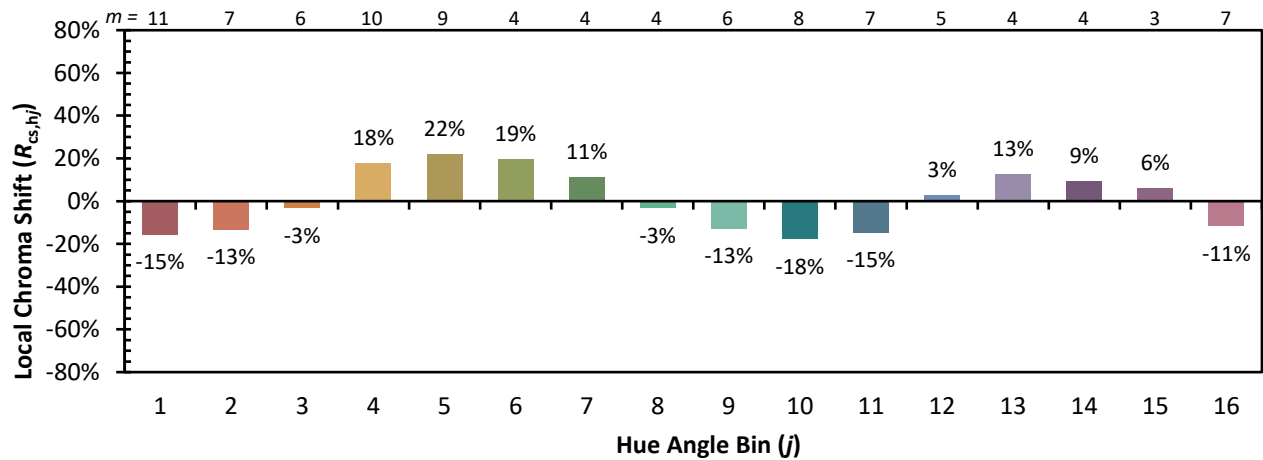
Color Vector Graphics



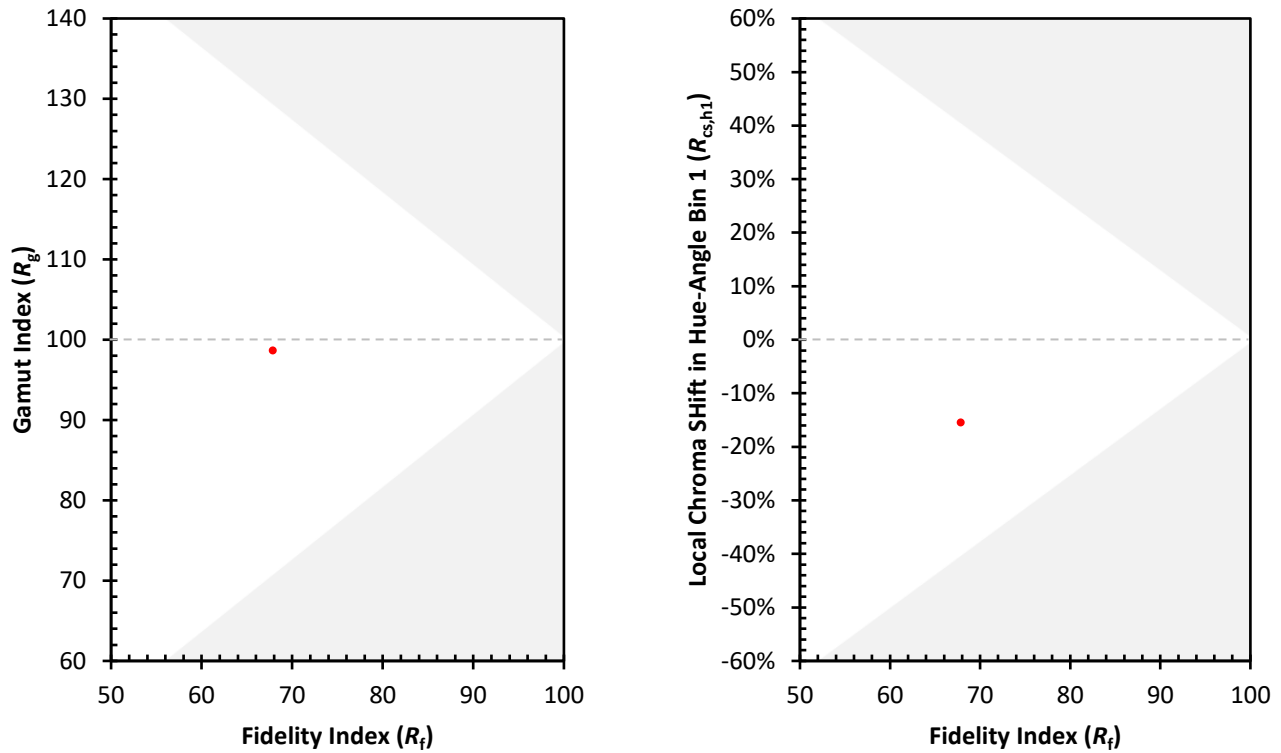
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)