

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: P1049551

Luminaire Tested: **GALN-SA5C-727-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049551
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22944.4 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

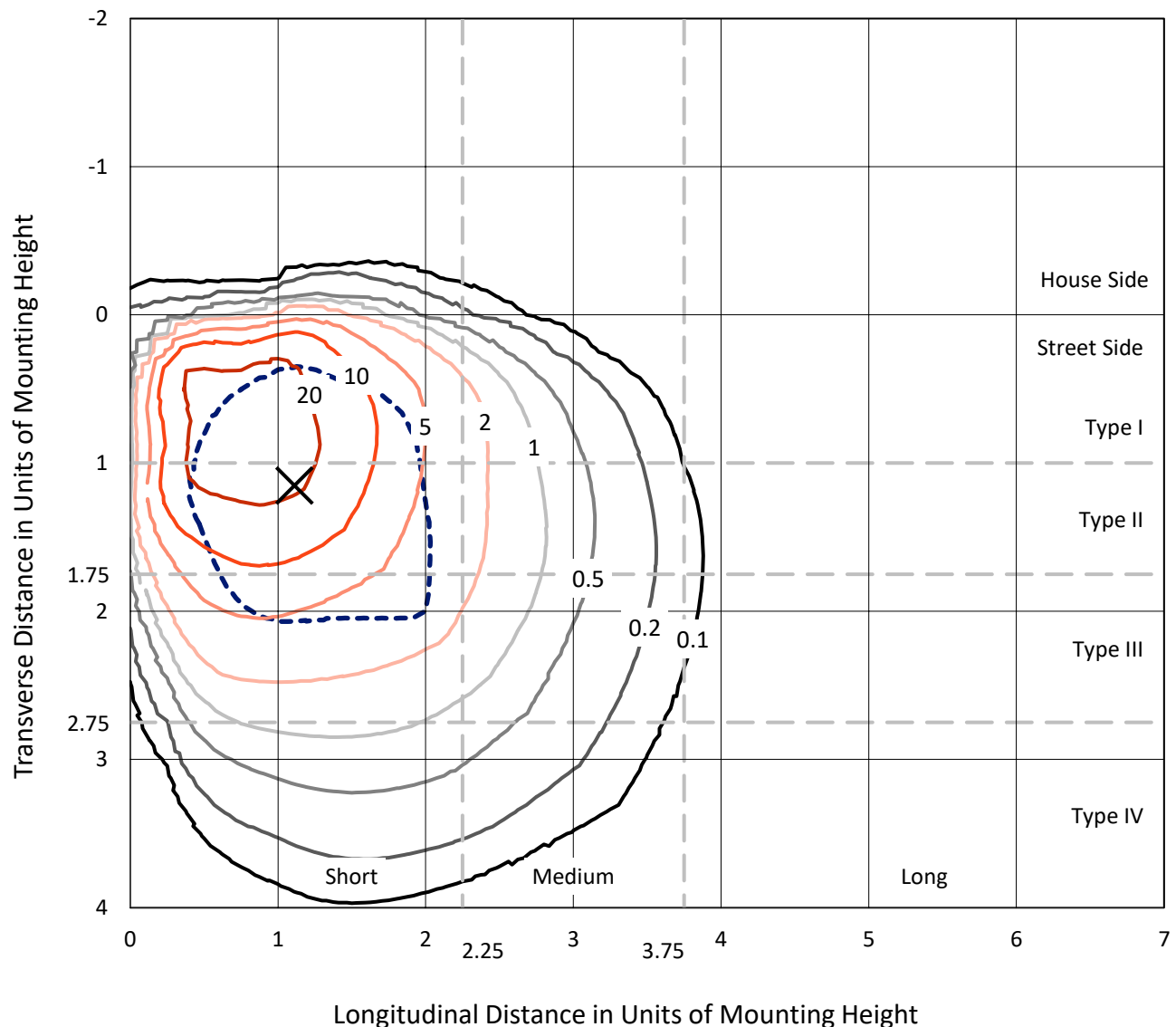
Input Watts (W): 236
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

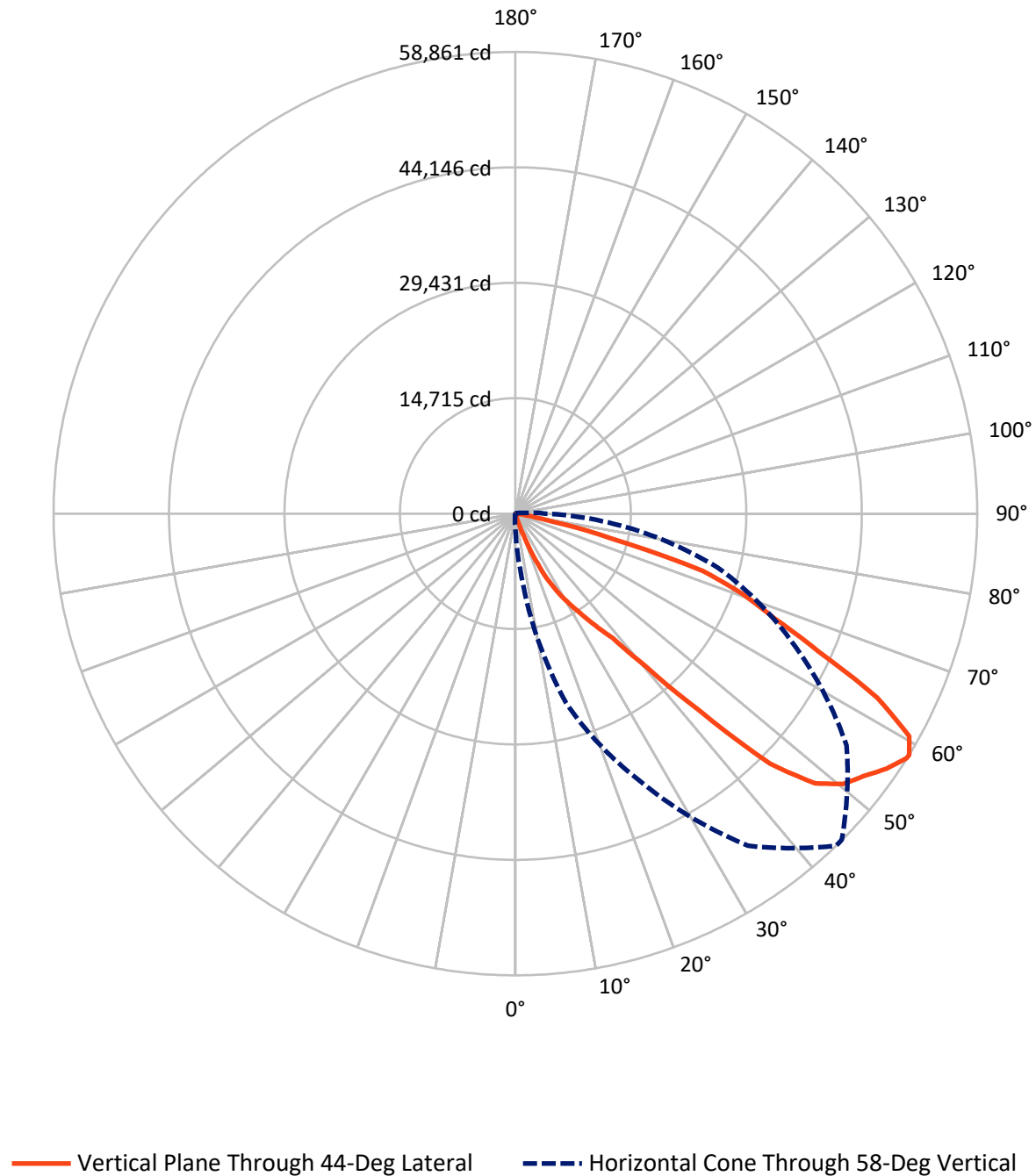
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39.9 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	156.7	0.0	156.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	22787.8	0.0	22787.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	22944.4	0.0	22944.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.0
10°-20°	50.3	0.2
20°-30°	543.6	2.4
30°-40°	1607.5	7.0
40°-50°	4791.2	20.9
50°-60°	7602.4	33.1
60°-70°	6341.3	27.6
70°-80°	1955.8	8.5
80°-90°	43.4	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°	22944.4	100.0
0°-180°	22944.4	100.0

Coefficient of Utilization



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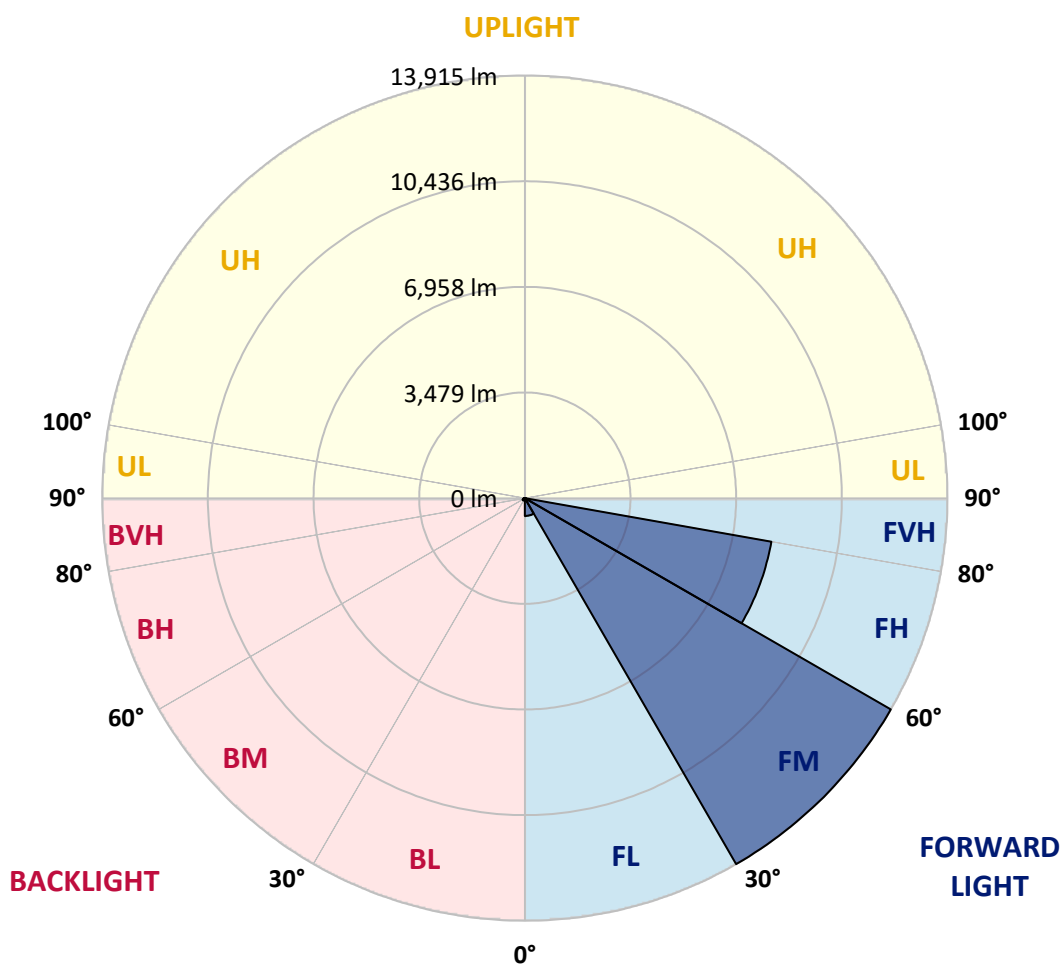
CATALOG NUMBER: GALN-SA5C-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	587.5	2.6			
FM	(30°-60°)	13915.3	60.6			
FH	(60°-80°)	8243.6	35.9			G4/12000
FVH	(80°-90°)	41.3	0.2			G1/100
BL	(0°-30°)	15.3	0.1	B0/110		
BM	(30°-60°)	85.7	0.4	B0/220		
BH	(60°-80°)	53.5	0.2	B0/110		G0/110
BVH	(80°-90°)	2.1	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5
2.5°	130.0	130.0	124.8	117.9	110.9	104.0	102.3	98.8	97.1	95.3	93.6
5°	135.2	135.2	133.5	128.3	121.3	116.1	116.1	110.9	107.5	104.0	100.5
7.5°	138.7	140.4	143.9	142.1	138.7	133.5	133.5	130.0	124.8	116.1	110.9
10°	143.9	149.1	156.0	159.5	161.2	161.2	159.5	157.7	149.1	136.9	123.1
12.5°	149.1	159.5	176.8	194.1	204.5	218.4	216.7	213.2	190.7	164.7	140.4
15°	159.5	175.1	211.5	261.7	339.7	388.2	407.3	390.0	315.5	221.9	162.9
17.5°	171.6	197.6	306.8	547.7	897.8	1064.2	1164.7	1083.3	717.6	421.2	204.5
20°	183.7	240.9	570.2	1419.5	2329.5	2873.7	3024.5	2788.8	1790.5	802.5	303.3
22.5°	204.5	338.0	1156.1	2934.4	5019.5	5835.9	5990.1	5236.2	3381.6	1584.2	455.8
25°	247.9	490.5	1993.2	4782.1	7491.1	8869.1	8804.9	7817.0	5485.8	2530.6	693.3
27.5°	310.3	714.1	3014.1	6794.4	9858.8	11073.8	11219.4	9997.4	7312.6	3721.3	984.5
30°	400.4	989.7	4109.5	8406.3	11756.7	13070.5	13094.7	11831.2	8947.1	4766.5	1341.5
32.5°	487.0	1249.7	5068.0	9964.5	13626.9	15067.2	15174.7	13619.9	10167.3	5854.9	1651.8
35°	552.9	1419.5	6038.7	11333.8	15512.6	17497.2	17490.3	15644.4	11612.8	6827.3	2081.6
37.5°	558.1	1589.4	6917.4	12734.2	17901.1	20123.1	20343.2	18308.4	13359.9	8030.2	2608.5
40°	546.0	1780.1	8030.2	14918.1	22204.7	25614.1	25808.2	23243.0	16864.6	10089.3	3431.8
42.5°	559.8	2111.1	9836.2	18951.4	29350.9	34247.4	34621.8	31924.8	23307.1	14290.7	4899.9
45°	632.6	2733.3	13619.9	25699.0	39537.3	45506.6	45381.8	41497.6	30803.4	20686.4	7804.8
47.5°	873.6	4256.9	19228.7	32266.3	46047.4	51363.3	51470.8	46723.4	35178.2	25603.7	11716.8
50°	1343.3	6513.6	23941.5	35738.0	48846.6	54179.8	54079.3	48593.6	36840.3	28025.0	14113.9
52.5°	1747.1	8146.3	26305.6	36956.5	49205.4	55571.6	55564.7	49085.8	37098.6	28233.0	14413.8
55°	1847.7	8269.4	26324.7	37022.3	50009.6	57393.3	57622.1	50297.3	37433.1	27324.8	13285.4
57.5°	1807.8	7321.3	25225.8	37403.7	51441.3	58802.4	58814.6	51470.8	38282.4	26768.4	11417.0
58°	1773.1	7172.2	25003.9	37620.3	51687.4	58861.4	58831.9	51524.5	38974.0	26747.6	11124.0
60°	1579.0	6227.6	24139.1	38173.2	51321.7	57651.5	57376.0	50351.1	38871.7	26534.4	9649.0
62.5°	1241.0	4858.3	23288.0	37533.6	47401.1	51794.9	51909.3	44577.6	35436.4	25291.7	7910.6
65°	988.0	3620.8	21513.2	32923.2	39032.9	42534.1	42960.5	36249.3	29578.0	21416.1	5832.4
67.5°	786.9	2617.2	18046.7	26212.0	30886.6	35498.8	35809.1	30434.2	22915.4	16408.7	4144.2
70°	639.6	1769.7	12456.9	19169.8	25475.4	30661.3	30680.4	25283.0	17103.8	10751.4	2599.9
72.5°	566.8	1225.4	7231.1	13980.4	20656.9	24984.9	24480.5	20516.5	13145.0	6368.0	1549.5
75°	490.5	812.9	3546.2	8546.7	12524.5	12609.4	12801.8	9517.3	6570.8	3028.0	929.0
77.5°	403.8	577.2	1397.0	2334.7	3756.0	4808.1	4986.6	3778.5	2185.6	745.3	495.7
80°	277.3	273.9	376.1	715.8	1074.6	1346.7	1256.6	972.4	572.0	286.0	176.8
82.5°	119.6	130.0	169.9	204.5	166.4	161.2	154.3	98.8	76.3	58.9	36.4
85°	38.1	34.7	36.4	36.4	29.5	22.5	22.5	10.4	0.0	0.0	0.0
87.5°	19.1	15.6	15.6	13.9	8.7	3.5	1.7	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°	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5
2.5°	91.9	91.9	88.4	84.9	83.2	79.7	78.0	76.3	74.5	72.8	71.1
5°	97.1	95.3	90.1	84.9	79.7	74.5	71.1	67.6	64.1	62.4	60.7
7.5°	105.7	102.3	91.9	83.2	76.3	69.3	65.9	60.7	57.2	52.0	50.3
10°	116.1	109.2	95.3	84.9	74.5	65.9	60.7	55.5	50.3	43.3	41.6
12.5°	130.0	117.9	100.5	83.2	71.1	60.7	55.5	48.5	43.3	38.1	34.7
15°	142.1	126.5	102.3	83.2	67.6	55.5	48.5	41.6	36.4	29.5	26.0
17.5°	159.5	133.5	100.5	78.0	62.4	48.5	41.6	36.4	27.7	17.3	13.9
20°	188.9	138.7	97.1	72.8	53.7	39.9	31.2	24.3	12.1	3.5	0.0
22.5°	235.7	152.5	93.6	65.9	46.8	31.2	20.8	8.7	0.0	0.0	0.0
25°	325.9	176.8	93.6	62.4	41.6	22.5	6.9	0.0	0.0	0.0	0.0
27.5°	433.3	209.7	93.6	53.7	32.9	12.1	0.0	0.0	0.0	0.0	0.0
30°	542.5	246.1	93.6	46.8	26.0	1.7	0.0	0.0	0.0	0.0	0.0
32.5°	646.5	277.3	95.3	39.9	17.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	752.2	282.5	93.6	34.7	10.4	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	887.4	272.1	88.4	31.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	1092.0	277.3	83.2	29.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1469.8	299.9	76.3	29.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2541.0	402.1	69.3	31.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4203.1	722.8	67.6	31.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5364.4	910.0	71.1	32.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5355.8	1014.0	74.5	34.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0
55°	4761.3	1033.0	79.7	38.1	22.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3979.6	942.9	91.9	46.8	41.6	0.0	0.0	0.0	0.0	0.0	0.0
58°	3840.9	901.3	95.3	48.5	45.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	3147.6	734.9	121.3	60.7	60.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2173.5	641.3	138.7	78.0	62.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	1537.4	578.9	150.8	83.2	50.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1149.1	533.8	166.4	84.9	26.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	880.5	500.9	204.5	90.1	6.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	717.6	462.8	247.9	93.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	594.5	417.7	239.2	102.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	395.2	324.1	218.4	102.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	138.7	128.3	169.9	90.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.8	17.3	24.3	31.2	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°	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5
2.5°	71.1	71.1	69.3	71.1	71.1	74.5	83.2	95.3	109.2	114.4	119.6
5°	58.9	57.2	55.5	55.5	55.5	60.7	67.6	81.5	97.1	104.0	107.5
7.5°	48.5	46.8	45.1	43.3	43.3	46.8	55.5	71.1	86.7	93.6	98.8
10°	39.9	36.4	34.7	32.9	32.9	36.4	45.1	60.7	78.0	84.9	91.9
12.5°	32.9	27.7	24.3	22.5	20.8	26.0	34.7	48.5	67.6	76.3	83.2
15°	22.5	17.3	12.1	10.4	8.7	13.9	22.5	38.1	57.2	67.6	74.5
17.5°	12.1	5.2	1.7	0.0	0.0	3.5	10.4	27.7	46.8	55.5	64.1
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9	34.7	43.3	52.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	20.8	29.5	38.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	15.6	22.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	10.4
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	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	10.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.9	19.1
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°	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5
2.5°	123.1	121.3	117.9	114.4	114.4	114.4	119.6	124.8	130.0	130.0
5°	114.4	114.4	112.7	109.2	109.2	110.9	117.9	126.5	133.5	135.2
7.5°	105.7	109.2	105.7	104.0	105.7	107.5	114.4	124.8	135.2	138.7
10°	100.5	102.3	102.3	100.5	100.5	104.0	110.9	124.8	138.7	143.9
12.5°	93.6	97.1	95.3	95.3	95.3	98.8	107.5	123.1	142.1	149.1
15°	86.7	91.9	91.9	90.1	90.1	91.9	104.0	121.3	147.3	159.5
17.5°	79.7	84.9	86.7	83.2	83.2	86.7	98.8	121.3	150.8	171.6
20°	65.9	74.5	79.7	74.5	74.5	78.0	90.1	114.4	152.5	183.7
22.5°	52.0	60.7	67.6	65.9	65.9	67.6	83.2	109.2	154.3	204.5
25°	38.1	46.8	52.0	55.5	55.5	60.7	76.3	105.7	161.2	247.9
27.5°	22.5	32.9	39.9	43.3	45.1	52.0	71.1	102.3	173.3	310.3
30°	10.4	19.1	27.7	34.7	34.7	46.8	65.9	98.8	188.9	400.4
32.5°	0.0	8.7	13.9	24.3	26.0	38.1	60.7	95.3	211.5	487.0
35°	0.0	0.0	6.9	19.1	19.1	31.2	55.5	91.9	246.1	552.9
37.5°	0.0	0.0	0.0	13.9	15.6	27.7	53.7	90.1	253.1	558.1
40°	0.0	0.0	0.0	10.4	12.1	26.0	53.7	91.9	228.8	546.0
42.5°	0.0	0.0	0.0	6.9	8.7	26.0	53.7	95.3	206.3	559.8
45°	0.0	0.0	0.0	5.2	6.9	27.7	52.0	93.6	194.1	632.6
47.5°	0.0	0.0	0.0	6.9	10.4	27.7	50.3	91.9	195.9	873.6
50°	0.0	0.0	0.0	8.7	12.1	27.7	52.0	88.4	214.9	1343.3
52.5°	0.0	0.0	0.0	6.9	10.4	31.2	57.2	86.7	234.0	1747.1
55°	0.0	0.0	0.0	1.7	5.2	39.9	62.4	86.7	263.5	1847.7
57.5°	0.0	0.0	0.0	0.0	0.0	45.1	71.1	91.9	312.0	1807.8
58°	0.0	0.0	0.0	0.0	0.0	45.1	72.8	91.9	315.5	1773.1
60°	0.0	0.0	0.0	0.0	0.0	45.1	79.7	102.3	339.7	1579.0
62.5°	0.0	0.0	0.0	0.0	0.0	38.1	95.3	128.3	353.6	1241.0
65°	0.0	0.0	0.0	0.0	0.0	31.2	112.7	140.4	364.0	988.0
67.5°	0.0	0.0	0.0	0.0	0.0	29.5	116.1	142.1	369.2	786.9
70°	0.0	0.0	0.0	0.0	0.0	31.2	114.4	152.5	386.5	639.6
72.5°	0.0	0.0	0.0	0.0	0.0	34.7	104.0	168.1	386.5	566.8
75°	0.0	0.0	0.0	0.0	0.0	36.4	97.1	188.9	351.9	490.5
77.5°	0.0	0.0	0.0	0.0	0.0	34.7	95.3	220.1	313.7	403.8
80°	3.5	5.2	5.2	3.5	3.5	29.5	93.6	223.6	266.9	277.3
82.5°	10.4	13.9	12.1	8.7	8.7	26.0	83.2	187.2	138.7	119.6
85°	19.1	22.5	22.5	19.1	19.1	24.3	52.0	67.6	46.8	38.1
87.5°	26.0	29.5	29.5	26.0	26.0	24.3	22.5	20.8	19.1	19.1
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

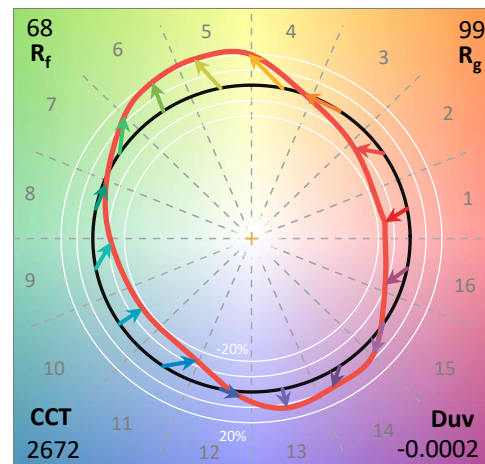
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

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

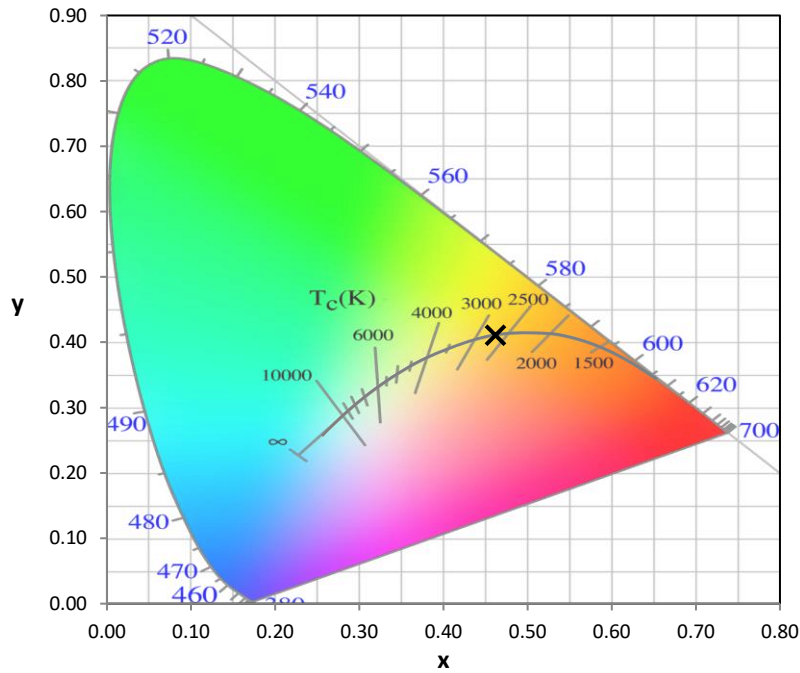
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

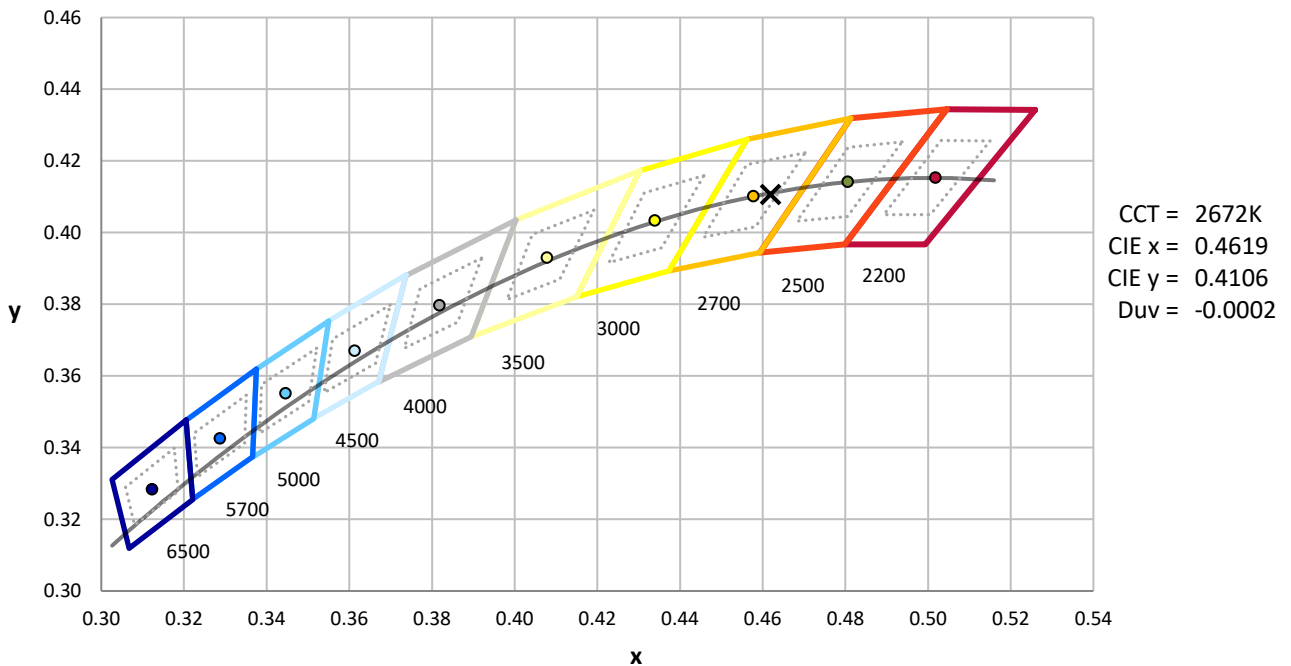
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

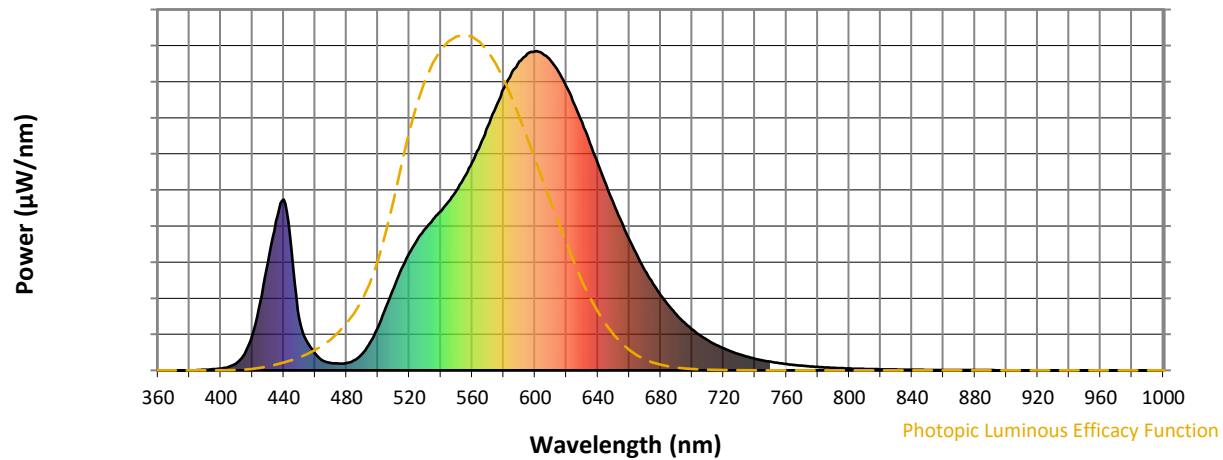


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

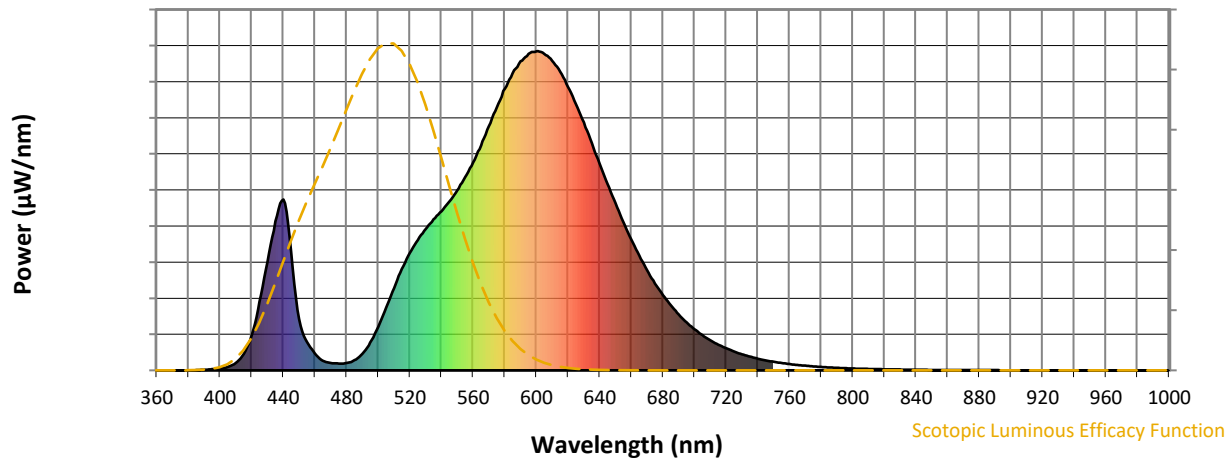


Photopic Lumens: NR

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	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



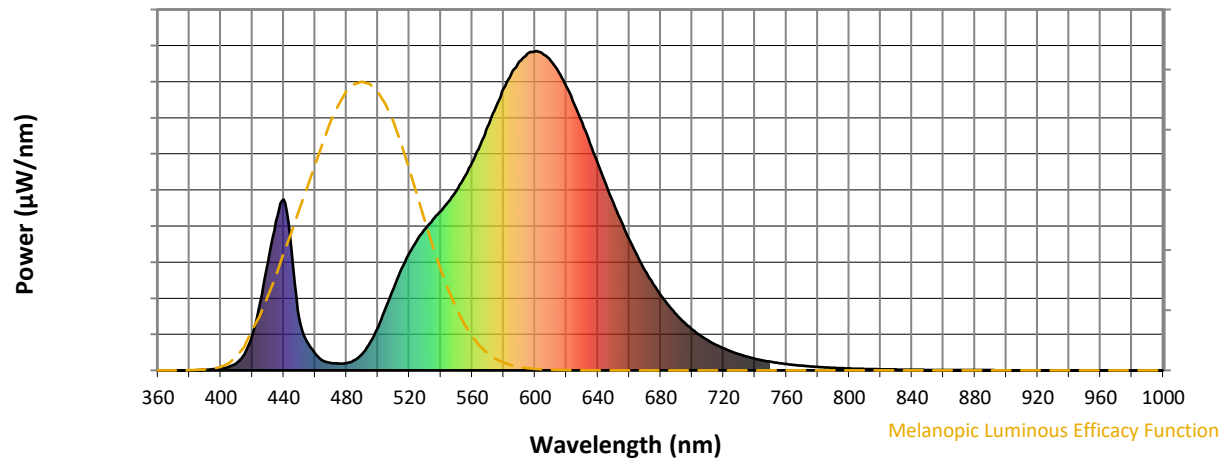
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.71

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	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			

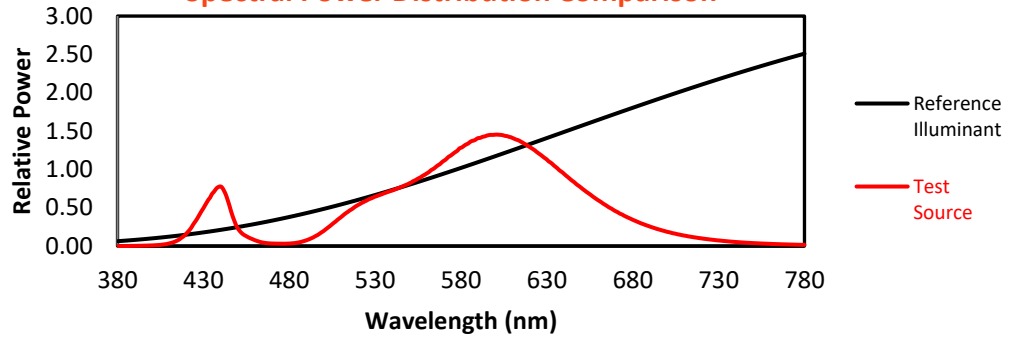
REPORT NUMBER: SP1-2407-184-3

TM-30-18

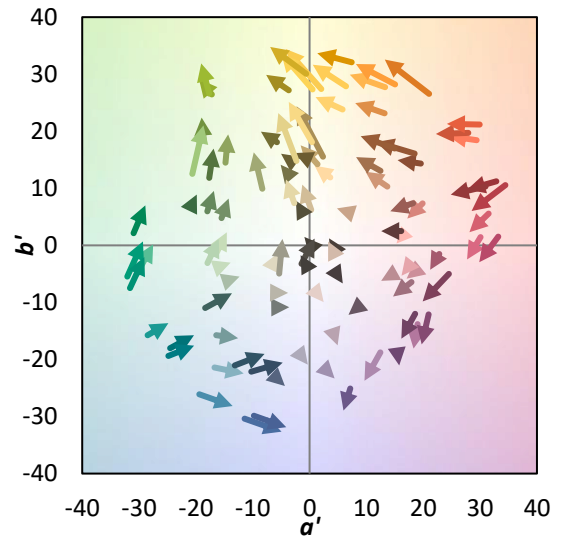
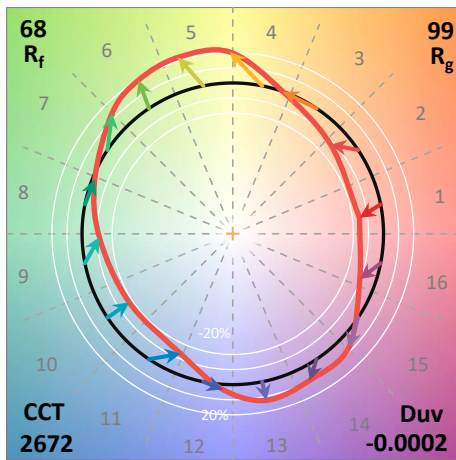
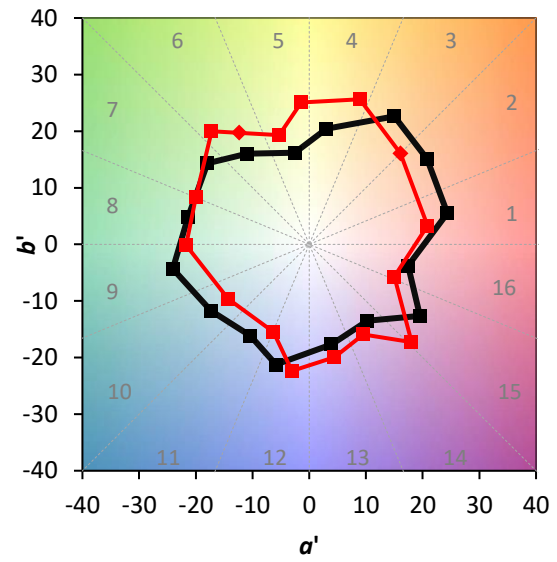
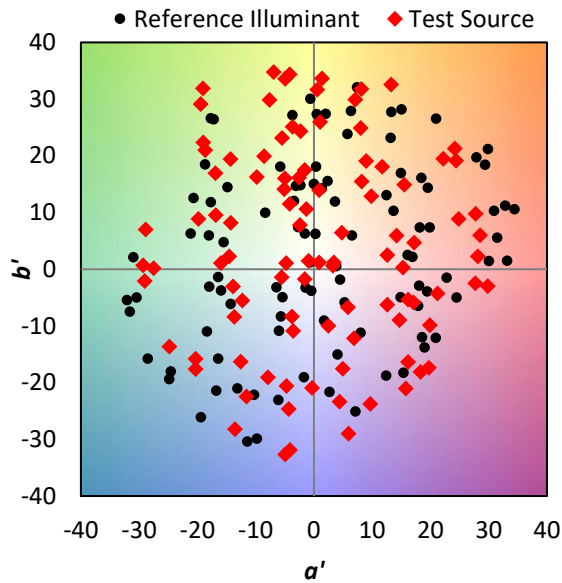
Summary

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

Spectral Power Distribution Comparison

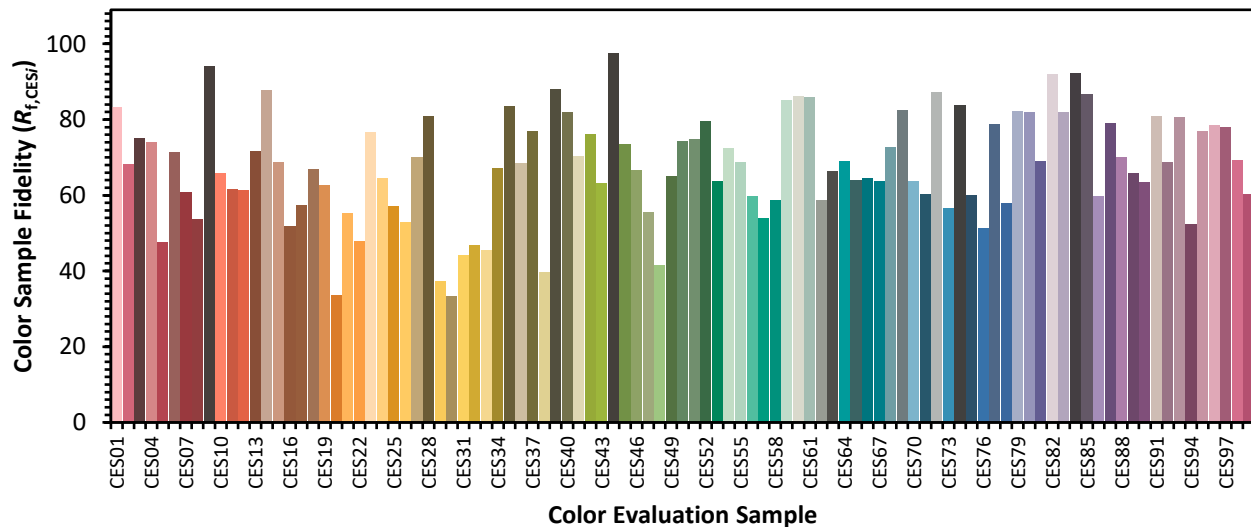


Color Vector Graphics

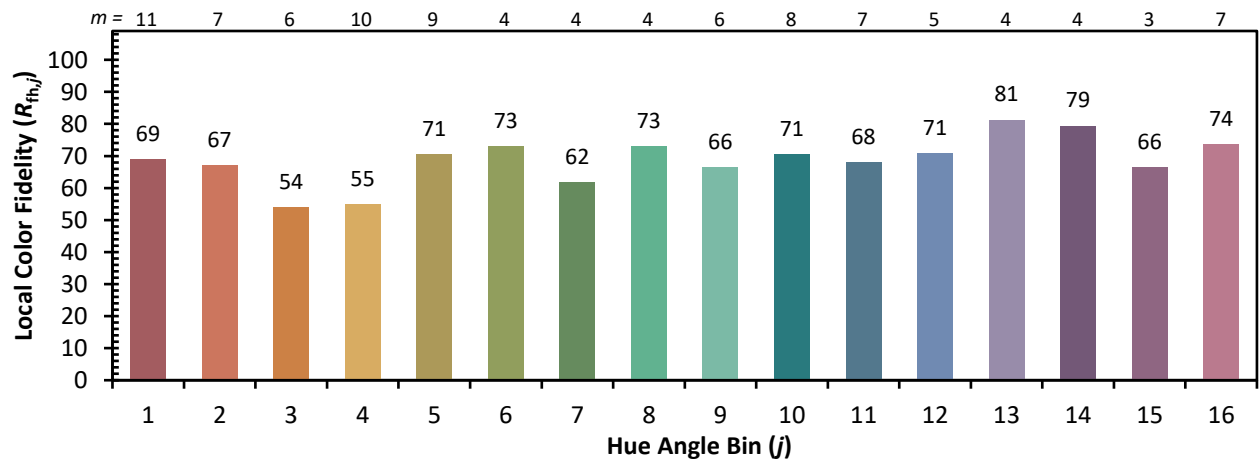
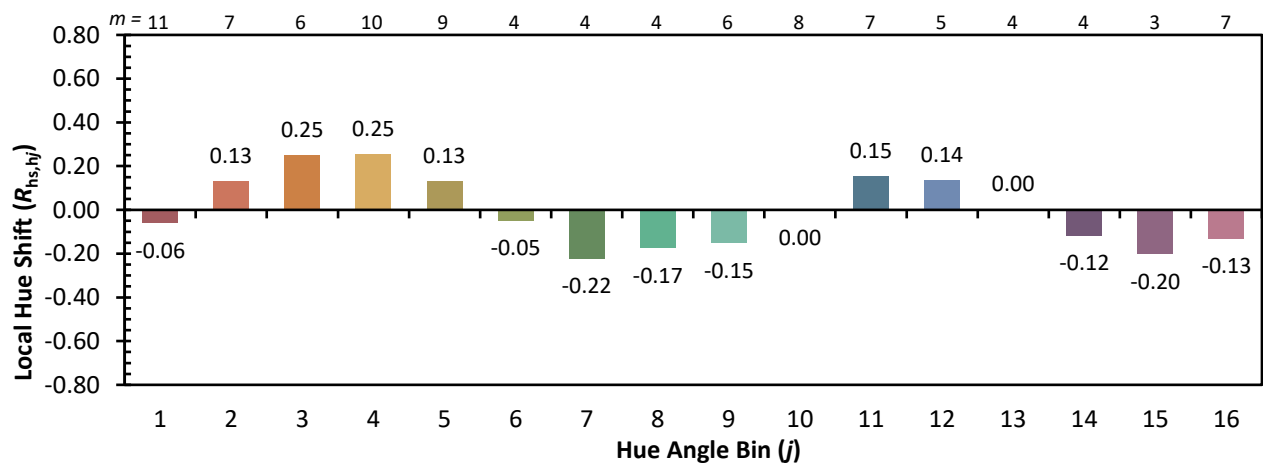
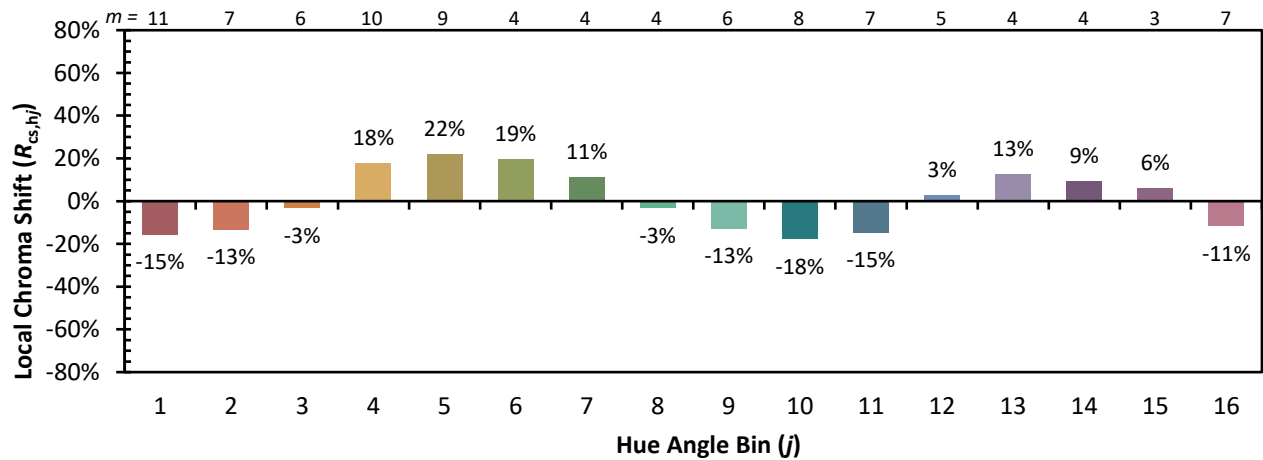


Individual Sample Fidelity Index ($R_{f,i}$)

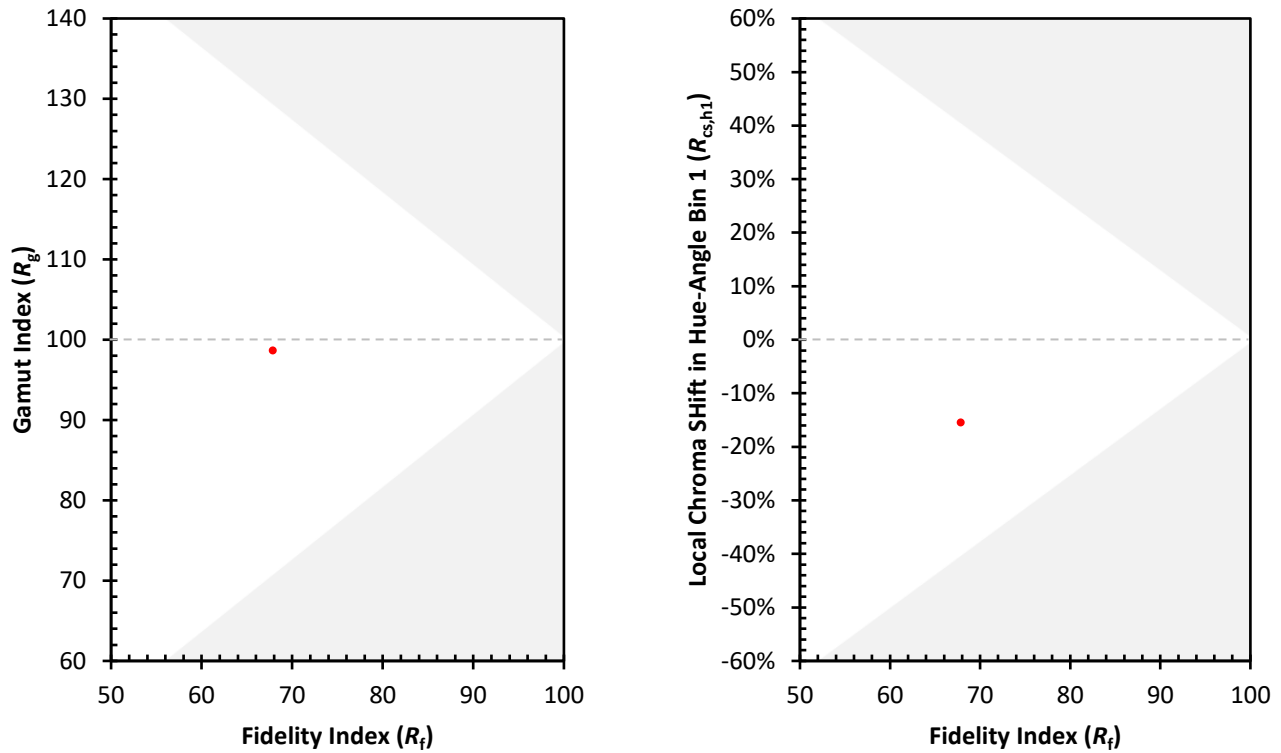
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 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)