

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: P1049729

Luminaire Tested: **GALN-SA5A-827-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049729
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13953.2 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

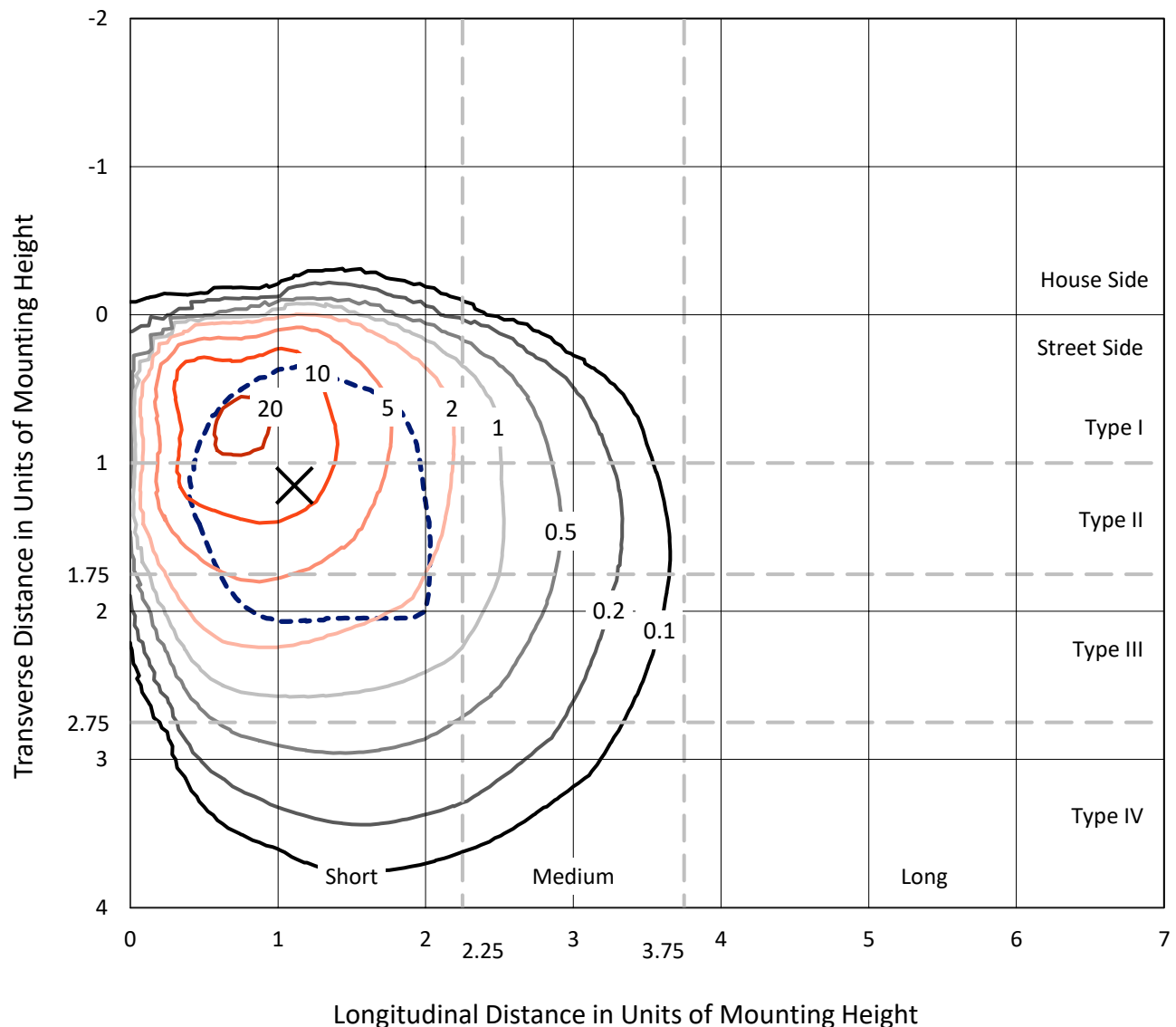
Input Watts (W): 136.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1049729

CATALOG NUMBER: GALN-SA5A-827-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

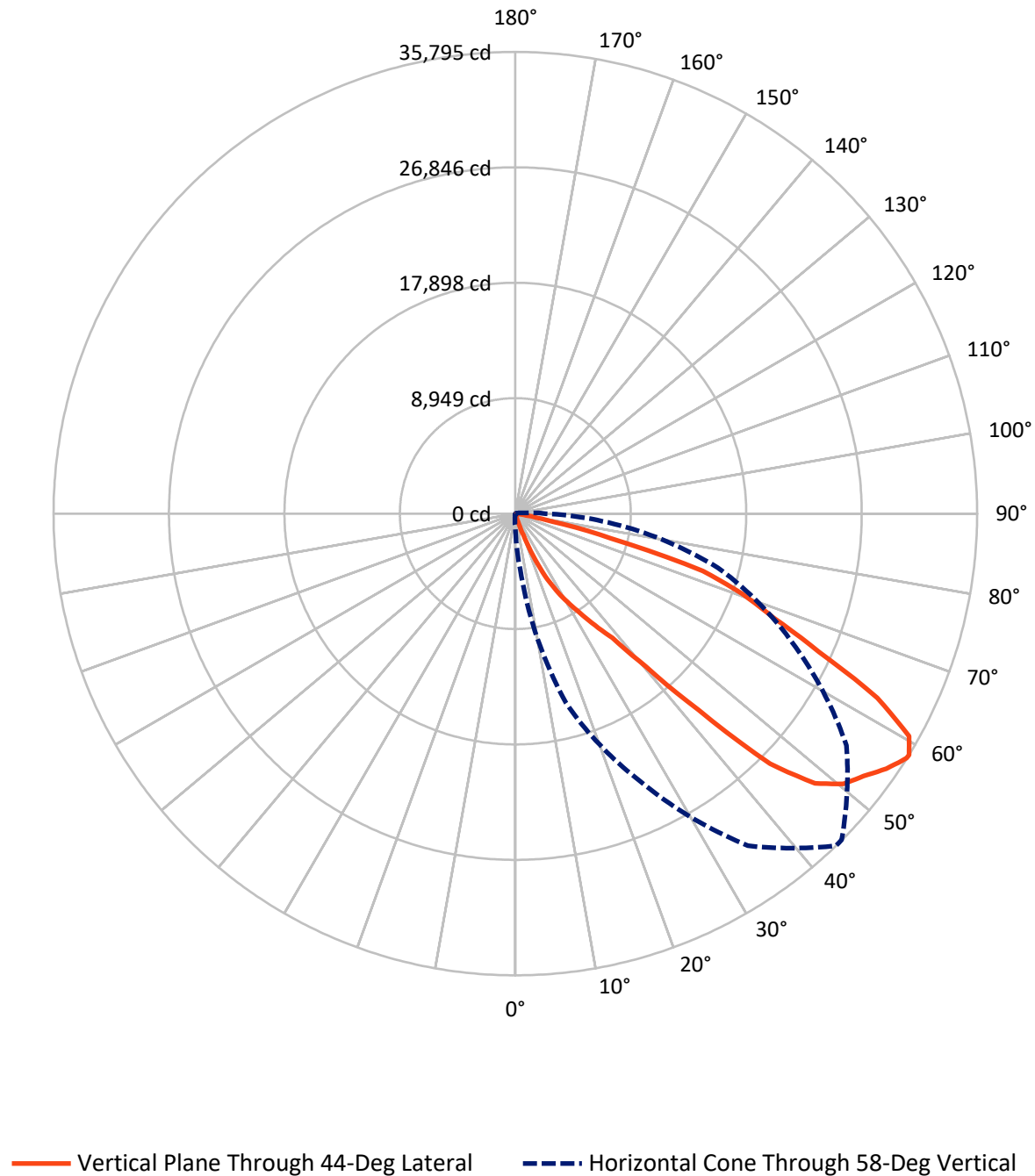
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.3 fc
 Type III - Short - N/A

REPORT NUMBER: P1049729
CATALOG NUMBER: GALN-SA5A-827-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049729

CATALOG NUMBER: GALN-SA5A-827-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	95.3	0.0	95.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	13857.9	0.0	13857.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	13953.2	0.0	13953.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.0
10°-20°	30.6	0.2
20°-30°	330.6	2.4
30°-40°	977.6	7.0
40°-50°	2913.6	20.9
50°-60°	4623.3	33.1
60°-70°	3856.3	27.6
70°-80°	1189.4	8.5
80°-90°	26.4	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°	13953.2	100.0
0°-180°	13953.2	100.0

Coefficient of Utilization



REPORT NUMBER: P1049729

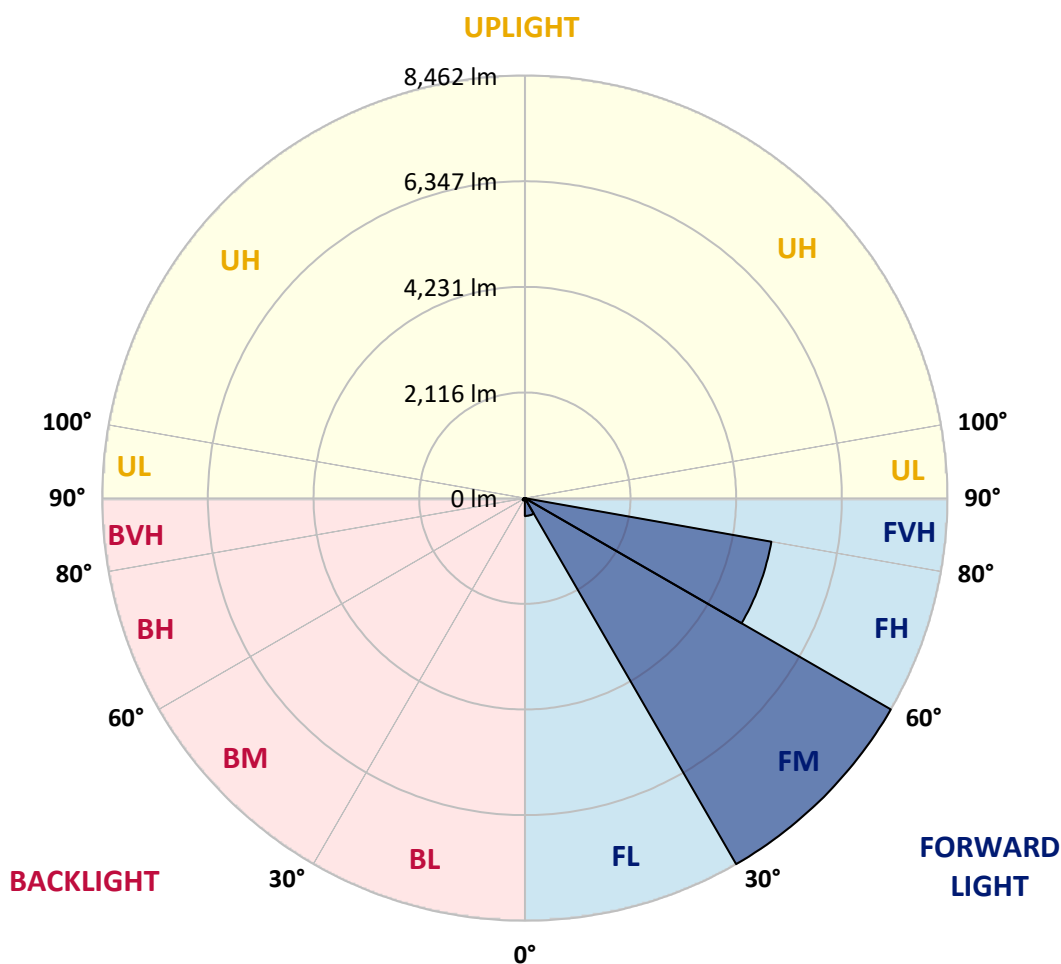
CATALOG NUMBER: GALN-SA5A-827-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.3	2.6			
FM	(30°-60°)	8462.3	60.6			
FH	(60°-80°)	5013.2	35.9			G3/7500
FVH	(80°-90°)	25.1	0.2			G1/100
BL	(0°-30°)	9.3	0.1	B0/110		
BM	(30°-60°)	52.1	0.4	B0/220		
BH	(60°-80°)	32.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.3	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



REPORT NUMBER: P1049729

CATALOG NUMBER: GALN-SA5A-827-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
2.5°	79.1	79.1	75.9	71.7	67.5	63.2	62.2	60.1	59.0	58.0
5°	82.2	82.2	81.2	78.0	73.8	70.6	70.6	67.5	65.4	63.2
7.5°	84.3	85.4	87.5	86.4	84.3	81.2	81.2	79.1	75.9	70.6
10°	87.5	90.6	94.9	97.0	98.0	98.0	97.0	95.9	90.6	83.3
12.5°	90.6	97.0	107.5	118.1	124.4	132.8	131.8	129.6	115.9	100.1
15°	97.0	106.5	128.6	159.2	206.6	236.1	247.7	237.2	191.8	134.9
17.5°	104.4	120.2	186.6	333.1	546.0	647.2	708.3	658.8	436.4	256.1
20°	111.7	146.5	346.8	863.3	1416.6	1747.6	1839.3	1696.0	1088.8	488.0
22.5°	124.4	205.5	703.0	1784.5	3052.5	3549.0	3642.8	3184.3	2056.4	963.4
25°	150.7	298.3	1212.2	2908.1	4555.6	5393.5	5354.5	4753.7	3336.0	1538.9
27.5°	188.7	434.3	1833.0	4131.9	5995.4	6734.3	6822.8	6079.7	4447.0	2263.0
30°	243.5	601.9	2499.1	5112.1	7149.6	7948.5	7963.3	7194.9	5441.0	2898.6
32.5°	296.2	760.0	3082.0	6059.7	8286.9	9162.8	9228.2	8282.7	6183.0	3560.6
35°	336.2	863.3	3672.3	6892.4	9433.7	10640.6	10636.4	9513.8	7062.1	4151.9
37.5°	339.4	966.6	4206.7	7744.1	10886.2	12237.4	12371.3	11133.9	8124.6	4883.4
40°	332.0	1082.5	4883.4	9072.2	13503.4	15576.7	15694.7	14134.7	10255.8	6135.6
42.5°	340.5	1283.8	5981.7	11524.9	17849.2	20826.9	21054.5	19414.4	14173.7	8690.6
45°	384.7	1662.2	8282.7	15628.3	24043.8	27673.9	27598.0	25235.9	18732.5	12580.0
47.5°	531.2	2588.7	11693.6	19622.1	28002.8	31235.5	31300.9	28413.9	21392.9	15570.3
50°	816.9	3961.1	14559.5	21733.3	29705.1	32948.4	32887.2	29551.2	22403.7	17042.8
52.5°	1062.5	4954.0	15997.2	22474.3	29923.3	33794.8	33790.5	29850.5	22560.8	17169.3
55°	1123.6	5028.8	16008.8	22514.4	30412.3	34902.6	35041.7	30587.3	22764.2	16617.0
57.5°	1099.4	4452.3	15340.6	22746.3	31283.0	35759.5	35766.9	31300.9	23280.7	16278.7
58°	1078.3	4361.6	15205.6	22878.0	31432.6	35795.3	35777.4	31333.6	23701.2	16266.0
60°	960.2	3787.2	14679.7	23214.3	31210.2	35059.6	34892.0	30620.0	23639.0	16136.4
62.5°	754.7	2954.5	14162.1	22825.3	28826.0	31498.0	31567.6	27109.0	21549.9	15380.6
65°	600.8	2201.9	13082.8	20021.6	23737.1	25866.2	26125.5	22044.3	17987.3	13023.8
67.5°	478.5	1591.6	10974.7	15940.3	18783.1	21587.9	21776.5	18508.0	13935.5	9978.6
70°	388.9	1076.2	7575.4	11657.7	15492.3	18646.0	18657.6	15375.3	10401.3	6538.2
72.5°	344.7	745.2	4397.5	8501.9	12562.1	15194.0	14887.3	12476.7	7993.9	3872.6
75°	298.3	494.3	2156.6	5197.5	7616.5	7668.2	7785.2	5787.8	3995.9	1841.4
77.5°	245.6	351.0	849.6	1419.8	2284.1	2923.9	3032.5	2297.8	1329.1	453.2
80°	168.6	166.5	228.7	435.3	653.5	819.0	764.2	591.3	347.8	173.9
82.5°	72.7	79.1	103.3	124.4	101.2	98.0	93.8	60.1	46.4	35.8
85°	23.2	21.1	22.1	22.1	17.9	13.7	13.7	6.3	0.0	0.0
87.5°	11.6	9.5	9.5	8.4	5.3	2.1	1.1	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



REPORT NUMBER: P1049729

CATALOG NUMBER: GALN-SA5A-827-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
61.1	0°	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
56.9	2.5°	55.9	55.9	53.8	51.6	50.6	48.5	47.4	46.4	45.3	44.3
61.1	5°	59.0	58.0	54.8	51.6	48.5	45.3	43.2	41.1	39.0	37.9
67.5	7.5°	64.3	62.2	55.9	50.6	46.4	42.2	40.1	36.9	34.8	31.6
74.8	10°	70.6	66.4	58.0	51.6	45.3	40.1	36.9	33.7	30.6	26.4
85.4	12.5°	79.1	71.7	61.1	50.6	43.2	36.9	33.7	29.5	26.4	23.2
99.1	15°	86.4	76.9	62.2	50.6	41.1	33.7	29.5	25.3	22.1	17.9
124.4	17.5°	97.0	81.2	61.1	47.4	37.9	29.5	25.3	22.1	16.9	10.5
184.5	20°	114.9	84.3	59.0	44.3	32.7	24.2	19.0	14.8	7.4	2.1
277.2	22.5°	143.3	92.8	56.9	40.1	28.5	19.0	12.6	5.3	0.0	0.0
421.6	25°	198.2	107.5	56.9	37.9	25.3	13.7	4.2	0.0	0.0	0.0
598.7	27.5°	263.5	127.5	56.9	32.7	20.0	7.4	0.0	0.0	0.0	0.0
815.8	30°	329.9	149.7	56.9	28.5	15.8	1.1	0.0	0.0	0.0	0.0
1004.5	32.5°	393.2	168.6	58.0	24.2	10.5	0.0	0.0	0.0	0.0	0.0
1265.9	35°	457.5	171.8	56.9	21.1	6.3	0.0	0.0	0.0	0.0	0.0
1586.3	37.5°	539.7	165.5	53.8	19.0	3.2	0.0	0.0	0.0	0.0	0.0
2087.0	40°	664.0	168.6	50.6	17.9	1.1	0.0	0.0	0.0	0.0	0.0
2979.8	42.5°	893.8	182.3	46.4	17.9	0.0	0.0	0.0	0.0	0.0	0.0
4746.4	45°	1545.2	244.5	42.2	19.0	0.0	0.0	0.0	0.0	0.0	0.0
7125.3	47.5°	2556.1	439.5	41.1	19.0	0.0	0.0	0.0	0.0	0.0	0.0
8583.1	50°	3262.3	553.4	43.2	20.0	0.0	0.0	0.0	0.0	0.0	0.0
8765.4	52.5°	3257.0	616.6	45.3	21.1	4.2	0.0	0.0	0.0	0.0	0.0
8079.2	55°	2895.5	628.2	48.5	23.2	13.7	0.0	0.0	0.0	0.0	0.0
6943.0	57.5°	2420.1	573.4	55.9	28.5	25.3	0.0	0.0	0.0	0.0	0.0
6764.9	58°	2335.8	548.1	58.0	29.5	27.4	0.0	0.0	0.0	0.0	0.0
5867.9	60°	1914.1	446.9	73.8	36.9	36.9	0.0	0.0	0.0	0.0	0.0
4810.7	62.5°	1321.8	390.0	84.3	47.4	37.9	0.0	0.0	0.0	0.0	0.0
3546.9	65°	934.9	352.1	91.7	50.6	30.6	0.0	0.0	0.0	0.0	0.0
2520.2	67.5°	698.8	324.6	101.2	51.6	15.8	0.0	0.0	0.0	0.0	0.0
1581.1	70°	535.5	304.6	124.4	54.8	4.2	0.0	0.0	0.0	0.0	0.0
942.3	72.5°	436.4	281.4	150.7	56.9	0.0	0.0	0.0	0.0	0.0	0.0
565.0	75°	361.5	254.0	145.5	62.2	0.0	0.0	0.0	0.0	0.0	0.0
301.5	77.5°	240.3	197.1	132.8	62.2	0.0	0.0	0.0	0.0	0.0	0.0
107.5	80°	84.3	78.0	103.3	54.8	0.0	0.0	0.0	0.0	0.0	0.0
22.1	82.5°	12.6	10.5	14.8	19.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

REPORT NUMBER: P1049729

CATALOG NUMBER: GALN-SA5A-827-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
61.1	0°	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
43.2	2.5°	43.2	43.2	42.2	43.2	43.2	45.3	50.6	58.0	66.4	69.6
36.9	5°	35.8	34.8	33.7	33.7	33.7	36.9	41.1	49.5	59.0	63.2
30.6	7.5°	29.5	28.5	27.4	26.4	26.4	28.5	33.7	43.2	52.7	56.9
25.3	10°	24.2	22.1	21.1	20.0	20.0	22.1	27.4	36.9	47.4	51.6
21.1	12.5°	20.0	16.9	14.8	13.7	12.6	15.8	21.1	29.5	41.1	46.4
15.8	15°	13.7	10.5	7.4	6.3	5.3	8.4	13.7	23.2	34.8	41.1
8.4	17.5°	7.4	3.2	1.1	0.0	0.0	2.1	6.3	16.9	28.5	33.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	21.1	26.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	12.6	17.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	9.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1049729

CATALOG NUMBER: GALN-SA5A-827-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
61.1	0°	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
72.7	2.5°	74.8	73.8	71.7	69.6	69.6	69.6	72.7	75.9	79.1	79.1
65.4	5°	69.6	69.6	68.5	66.4	66.4	67.5	71.7	76.9	81.2	82.2
60.1	7.5°	64.3	66.4	64.3	63.2	64.3	65.4	69.6	75.9	82.2	84.3
55.9	10°	61.1	62.2	62.2	61.1	61.1	63.2	67.5	75.9	84.3	87.5
50.6	12.5°	56.9	59.0	58.0	58.0	58.0	60.1	65.4	74.8	86.4	90.6
45.3	15°	52.7	55.9	55.9	54.8	54.8	55.9	63.2	73.8	89.6	97.0
39.0	17.5°	48.5	51.6	52.7	50.6	50.6	52.7	60.1	73.8	91.7	104.4
31.6	20°	40.1	45.3	48.5	45.3	45.3	47.4	54.8	69.6	92.8	111.7
23.2	22.5°	31.6	36.9	41.1	40.1	40.1	41.1	50.6	66.4	93.8	124.4
13.7	25°	23.2	28.5	31.6	33.7	33.7	36.9	46.4	64.3	98.0	150.7
6.3	27.5°	13.7	20.0	24.2	26.4	27.4	31.6	43.2	62.2	105.4	188.7
0.0	30°	6.3	11.6	16.9	21.1	21.1	28.5	40.1	60.1	114.9	243.5
0.0	32.5°	0.0	5.3	8.4	14.8	15.8	23.2	36.9	58.0	128.6	296.2
0.0	35°	0.0	0.0	4.2	11.6	11.6	19.0	33.7	55.9	149.7	336.2
0.0	37.5°	0.0	0.0	0.0	8.4	9.5	16.9	32.7	54.8	153.9	339.4
0.0	40°	0.0	0.0	0.0	6.3	7.4	15.8	32.7	55.9	139.1	332.0
0.0	42.5°	0.0	0.0	0.0	4.2	5.3	15.8	32.7	58.0	125.4	340.5
0.0	45°	0.0	0.0	0.0	3.2	4.2	16.9	31.6	56.9	118.1	384.7
0.0	47.5°	0.0	0.0	0.0	4.2	6.3	16.9	30.6	55.9	119.1	531.2
0.0	50°	0.0	0.0	0.0	5.3	7.4	16.9	31.6	53.8	130.7	816.9
0.0	52.5°	0.0	0.0	0.0	4.2	6.3	19.0	34.8	52.7	142.3	1062.5
0.0	55°	0.0	0.0	0.0	1.1	3.2	24.2	37.9	52.7	160.2	1123.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	27.4	43.2	55.9	189.7	1099.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	27.4	44.3	55.9	191.8	1078.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	27.4	48.5	62.2	206.6	960.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	23.2	58.0	78.0	215.0	754.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	19.0	68.5	85.4	221.3	600.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	17.9	70.6	86.4	224.5	478.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	19.0	69.6	92.8	235.1	388.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	21.1	63.2	102.2	235.1	344.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	22.1	59.0	114.9	214.0	298.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	21.1	58.0	133.9	190.8	245.6
0.0	80°	2.1	3.2	3.2	2.1	2.1	17.9	56.9	136.0	162.3	168.6
1.1	82.5°	6.3	8.4	7.4	5.3	5.3	15.8	50.6	113.8	84.3	72.7
6.3	85°	11.6	13.7	13.7	11.6	11.6	14.8	31.6	41.1	28.5	23.2
11.6	87.5°	15.8	17.9	17.9	15.8	15.8	14.8	13.7	12.6	11.6	11.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

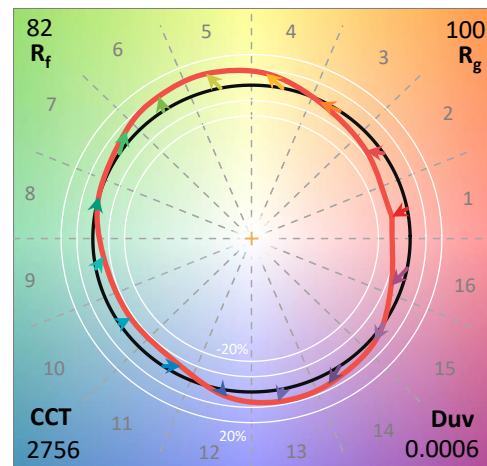
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

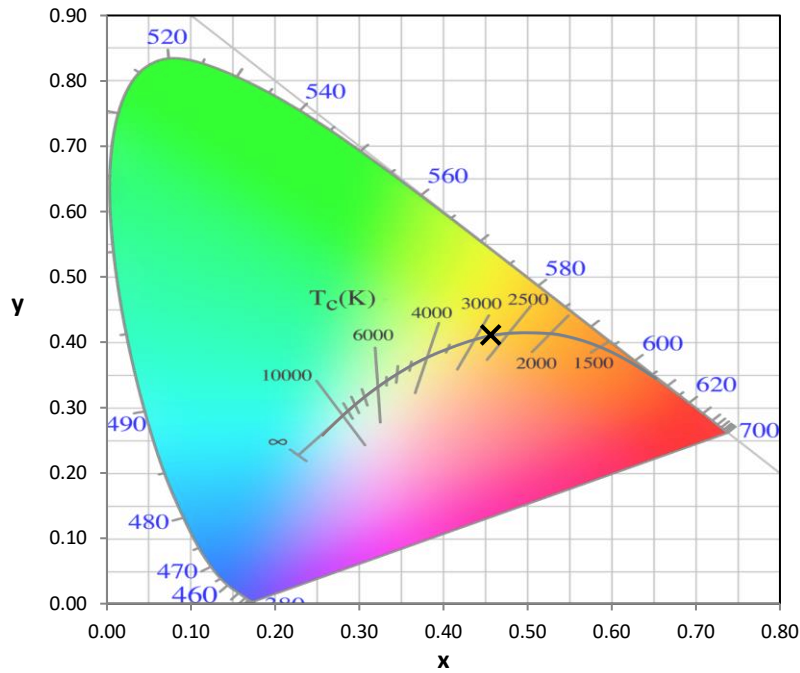
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

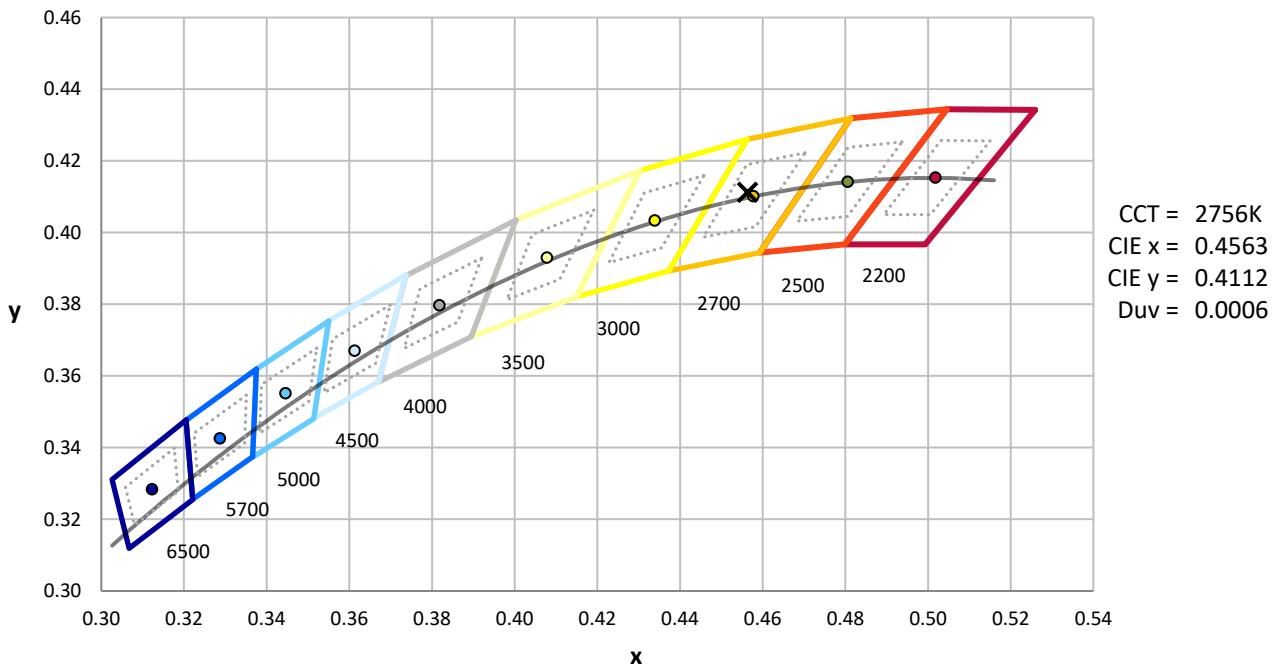
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



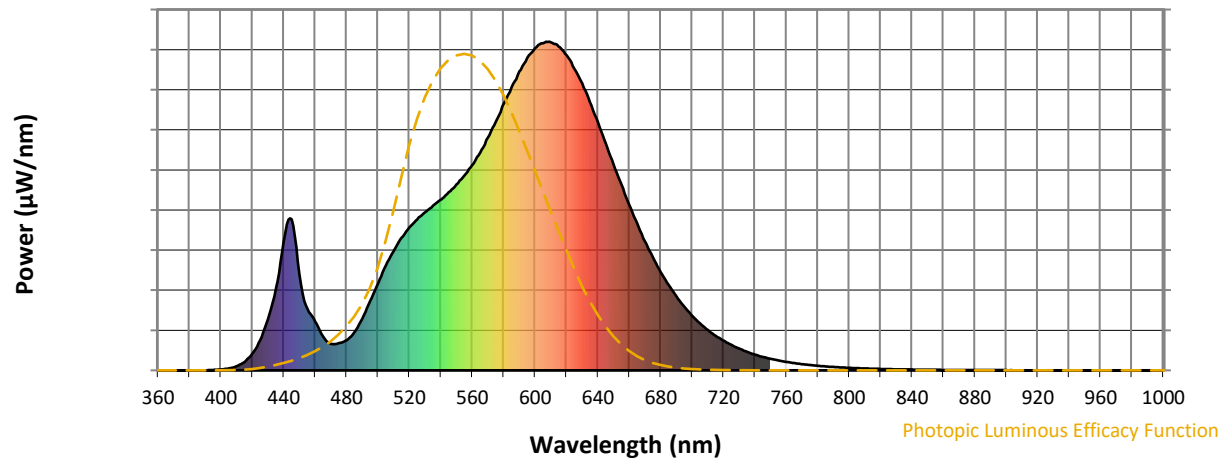
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

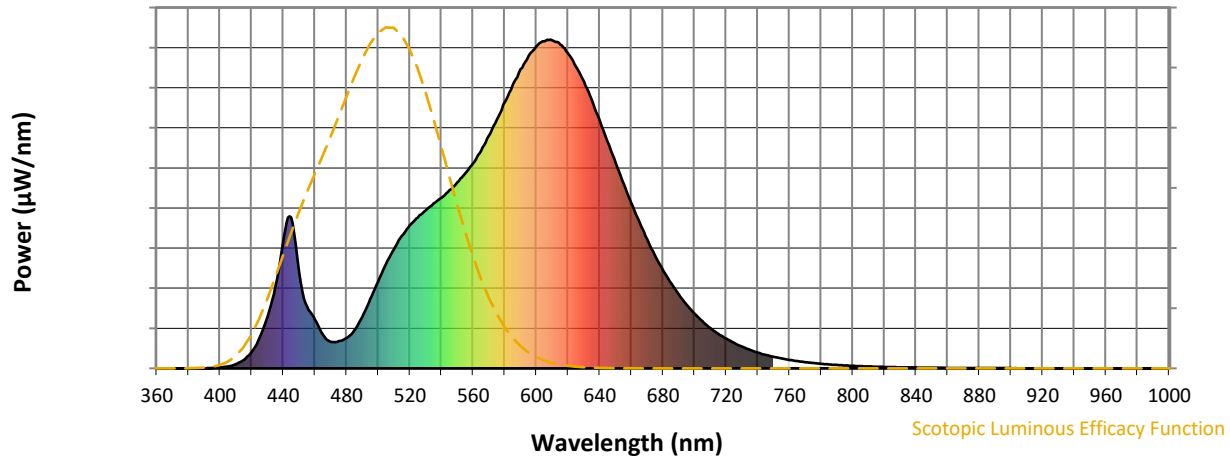


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength



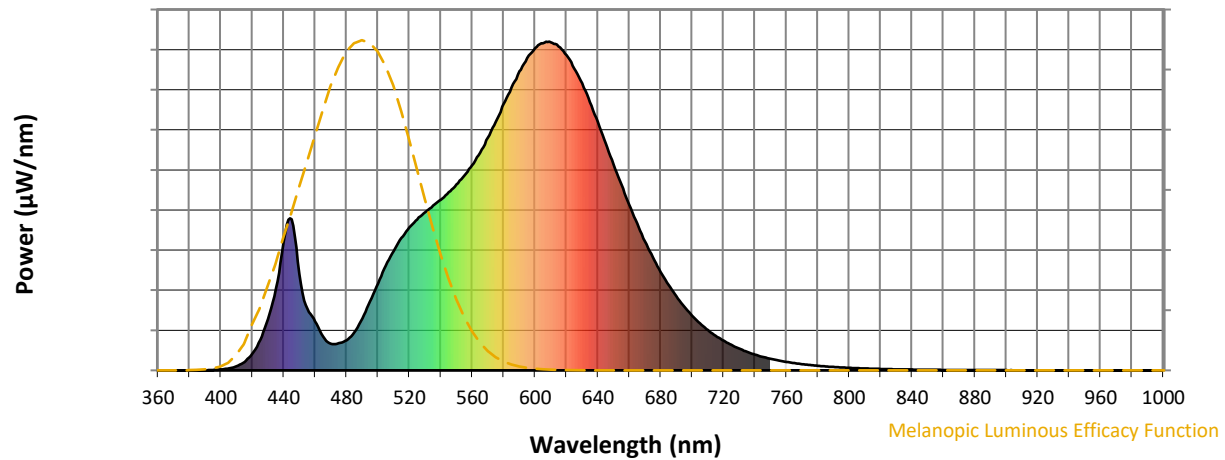
Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.16

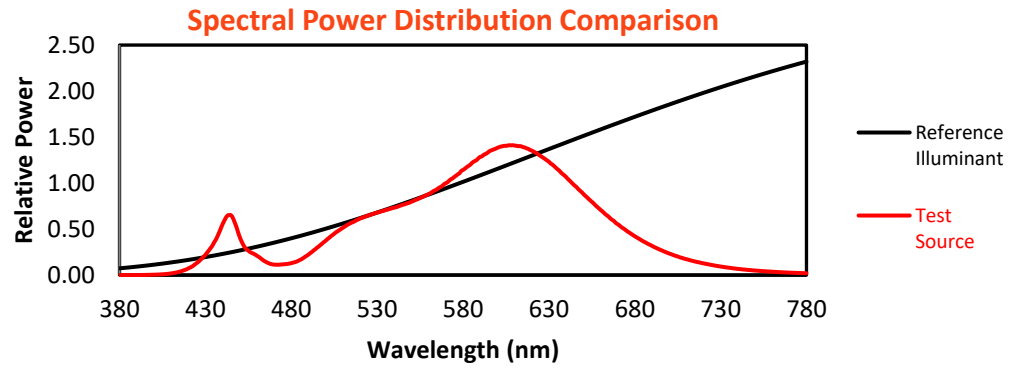
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

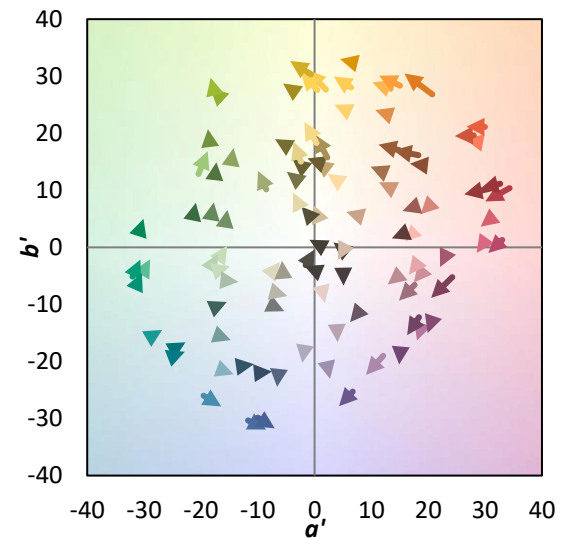
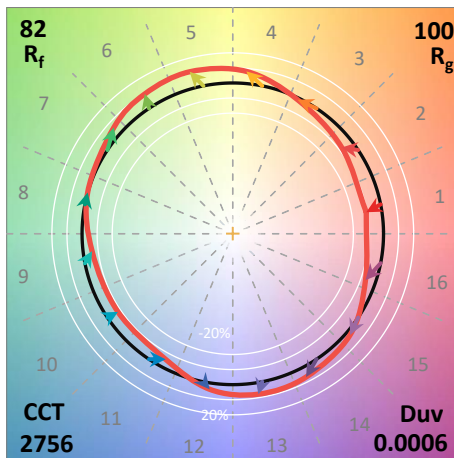
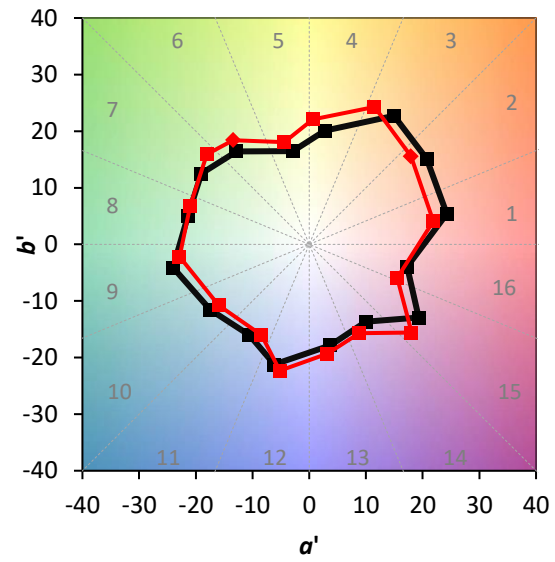
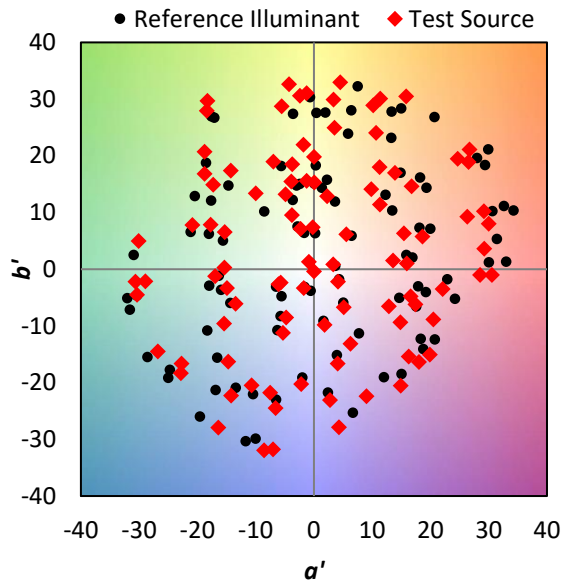
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

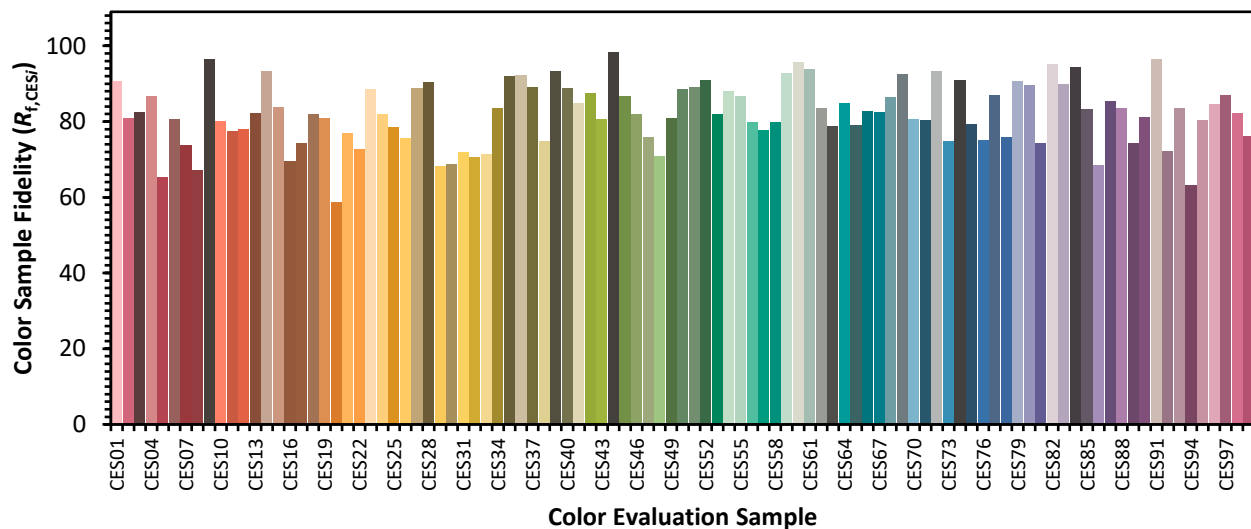


Color Vector Graphics

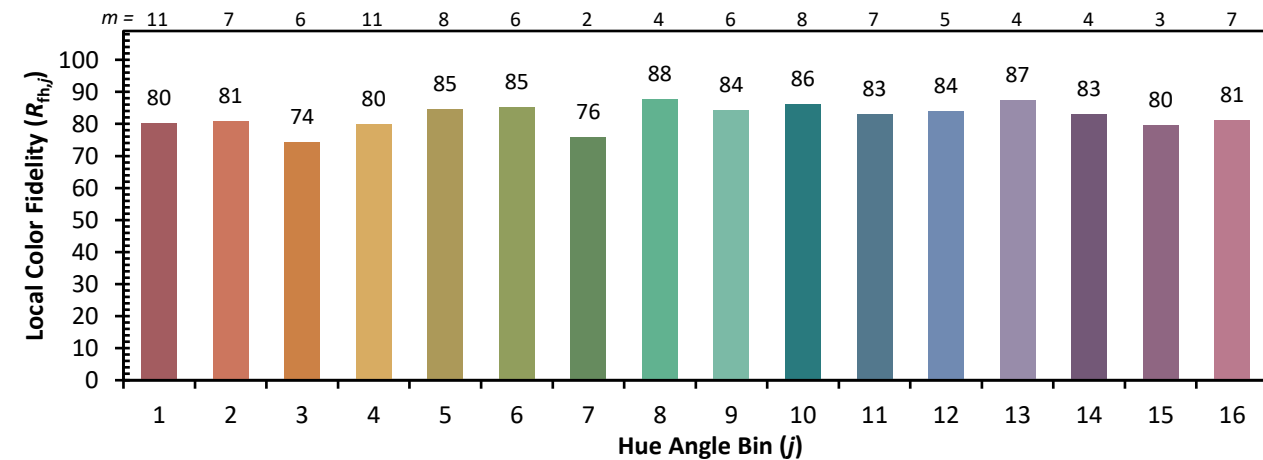
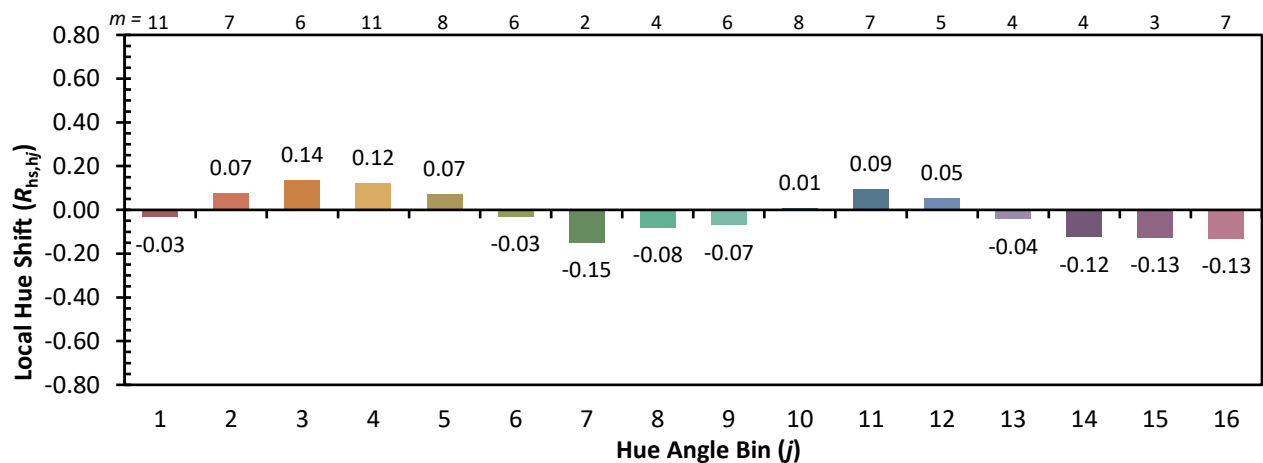
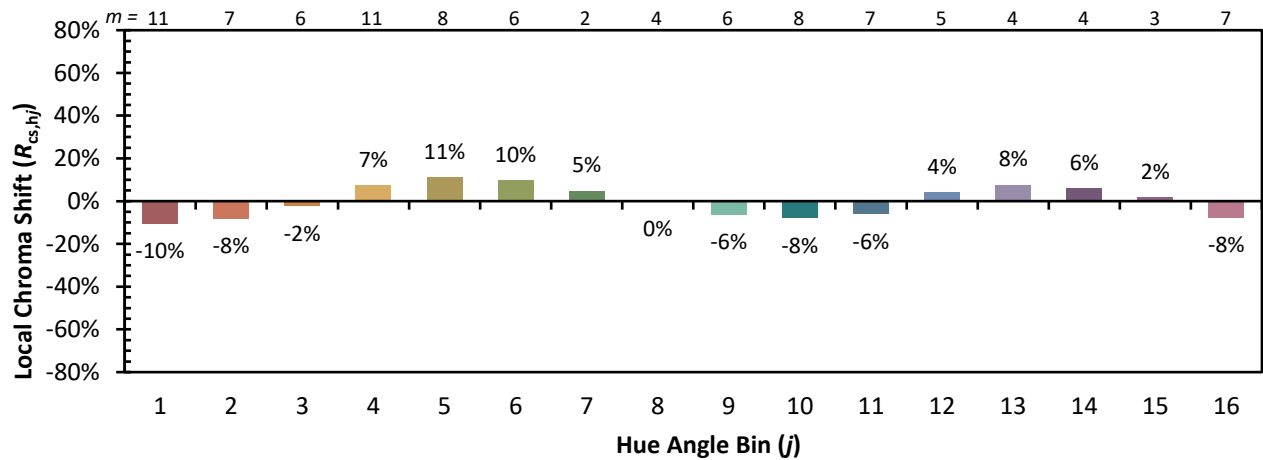


Individual Sample Fidelity Index ($R_{f,i}$)

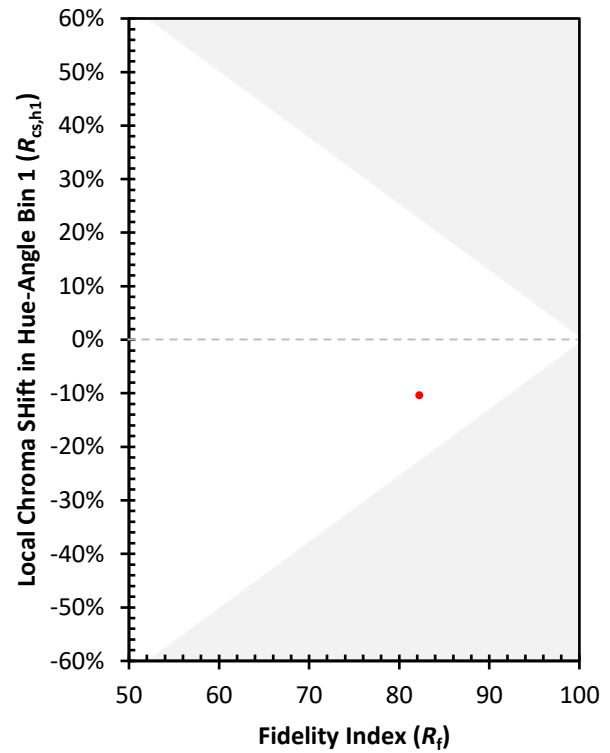
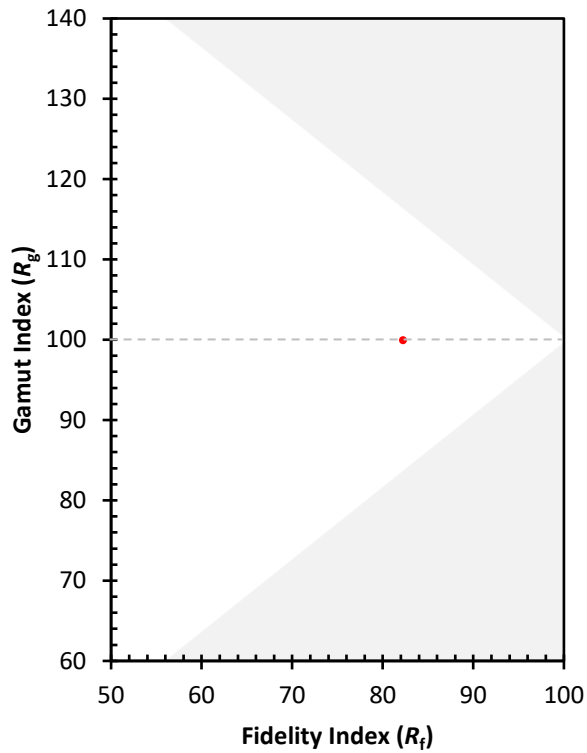
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)