

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: P1049778

Luminaire Tested: **GALN-SA8B-830-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049778
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 8xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29291.5 lumens
Efficiency: N/A
Efficacy: 103.6 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): 282.8
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

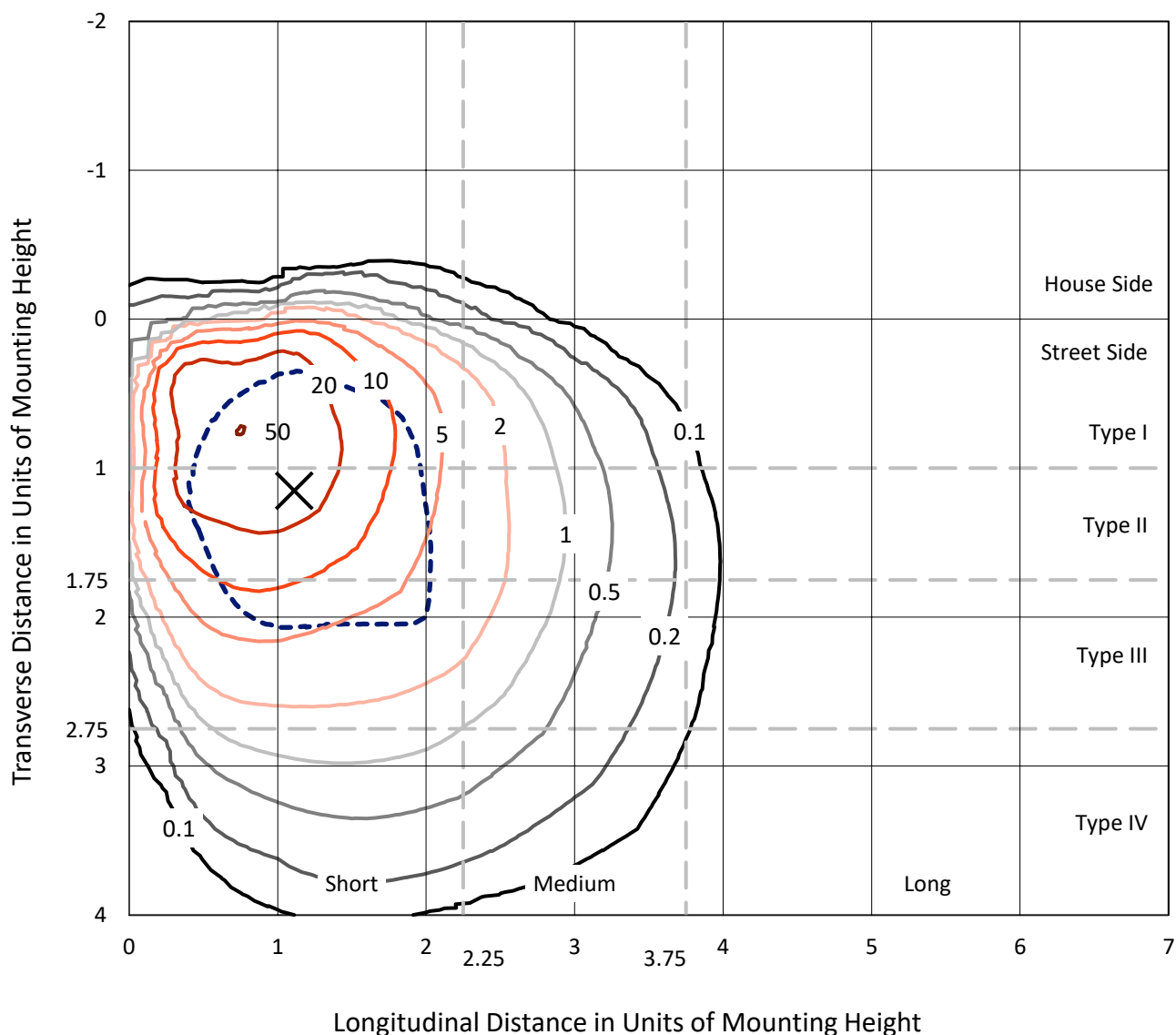
REPORT NUMBER: P1049778

CATALOG NUMBER: GALN-SA8B-830-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

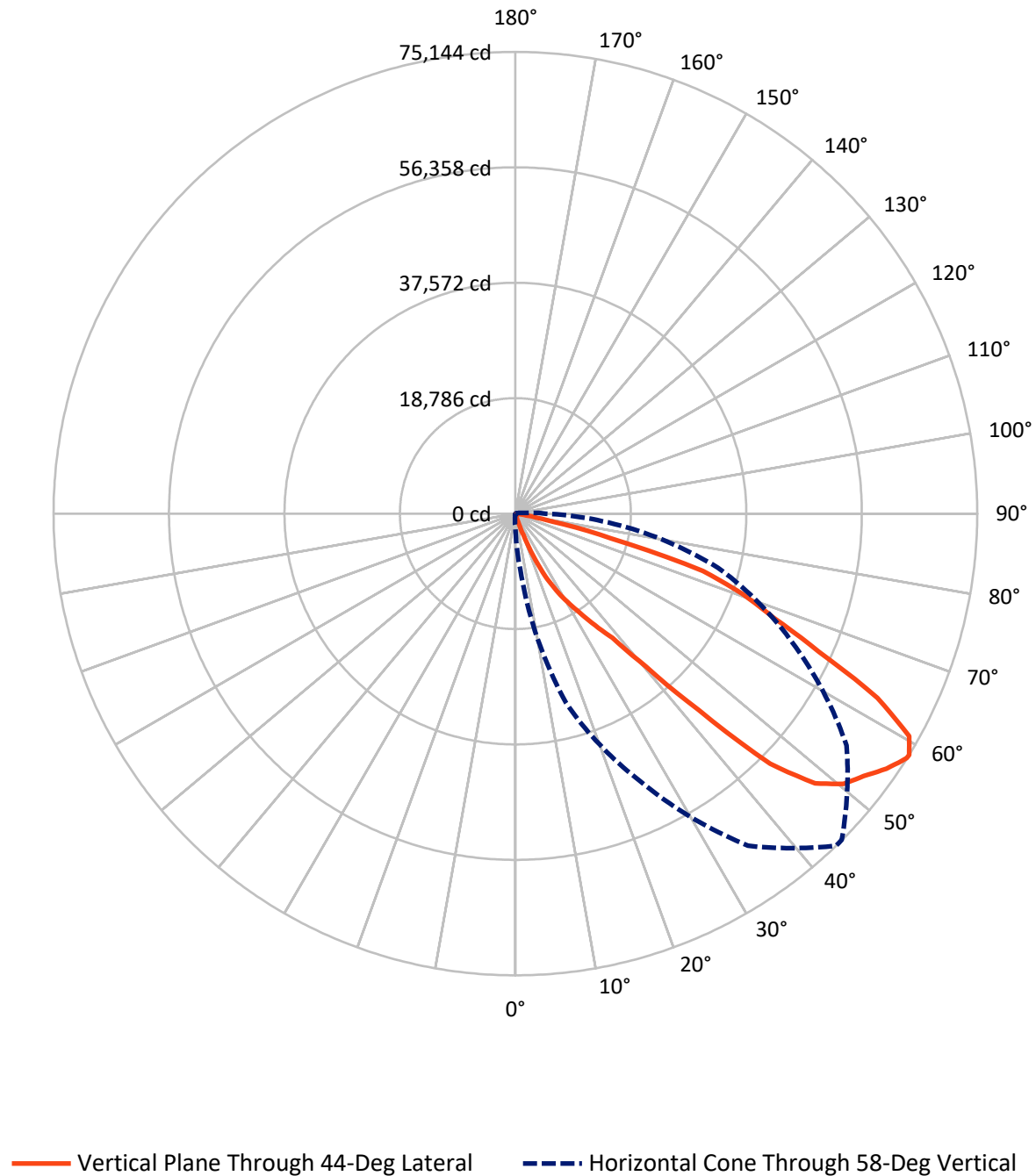


Based on 20 foot mounting height. Maximum calculated value = 51 fc

Type III - Short - N/A

REPORT NUMBER: P1049778
CATALOG NUMBER: GALN-SA8B-830-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049778

CATALOG NUMBER: GALN-SA8B-830-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	200.0	0.0	200.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	29091.5	0.0	29091.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	29291.5	0.0	29291.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	0.0
10°-20°	64.2	0.2
20°-30°	693.9	2.4
30°-40°	2052.2	7.0
40°-50°	6116.5	20.9
50°-60°	9705.5	33.1
60°-70°	8095.5	27.6
70°-80°	2496.8	8.5
80°-90°	55.5	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°	29291.5	100.0
0°-180°	29291.5	100.0



REPORT NUMBER: P1049778

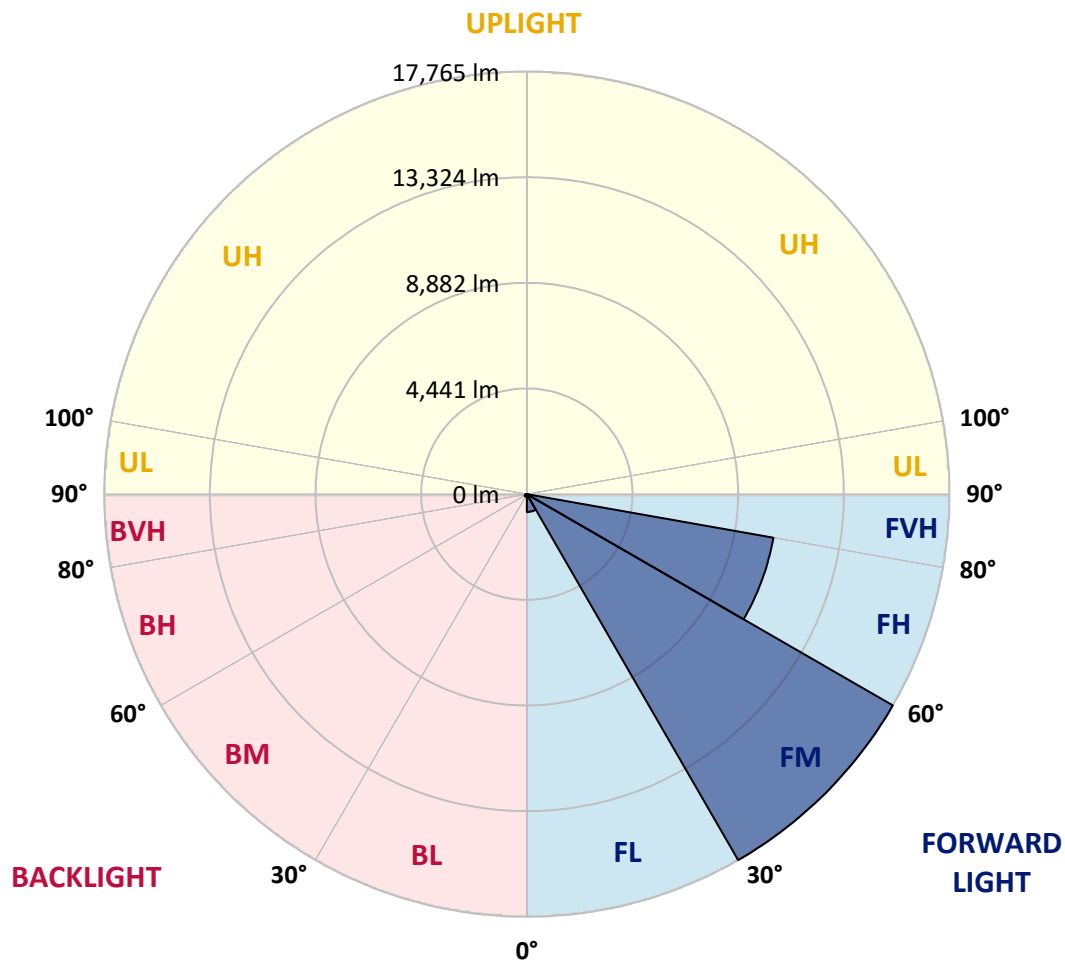
CATALOG NUMBER: GALN-SA8B-830-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	750.0	2.6			
FM	(30°-60°)	17764.7	60.6			
FH	(60°-80°)	10524.0	35.9			G4/12000
FVH	(80°-90°)	52.8	0.2			G1/100
BL	(0°-30°)	19.6	0.1	B0/110		
BM	(30°-60°)	109.5	0.4	B0/220		
BH	(60°-80°)	68.3	0.2	B0/110		G0/110
BVH	(80°-90°)	2.7	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: P1049778

CATALOG NUMBER: GALN-SA8B-830-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3
2.5°	166.0	166.0	159.3	150.5	141.6	132.8	130.6	126.1	123.9	121.7
5°	172.6	172.6	170.4	163.7	154.9	148.3	148.3	141.6	137.2	132.8
7.5°	177.0	179.2	183.7	181.4	177.0	170.4	170.4	166.0	159.3	148.3
10°	183.7	190.3	199.1	203.6	205.8	205.8	203.6	201.4	190.3	174.8
12.5°	190.3	203.6	225.7	247.8	261.1	278.8	276.6	272.2	243.4	210.2
15°	203.6	223.5	270.0	334.1	433.7	495.7	520.0	497.9	402.7	283.2
17.5°	219.1	252.3	391.7	699.2	1146.2	1358.6	1487.0	1383.0	916.1	537.7
20°	234.5	307.6	728.0	1812.2	2973.9	3668.7	3861.2	3560.3	2285.7	1024.5
22.5°	261.1	431.5	1475.9	3746.1	6408.1	7450.2	7647.2	6684.6	4317.0	2022.4
25°	316.4	626.2	2544.6	6104.9	9563.4	11322.5	11240.6	9979.4	7003.3	3230.6
27.5°	396.1	911.6	3847.9	8673.9	12586.0	14137.1	14323.0	12763.0	9335.5	4750.7
30°	511.1	1263.5	5246.4	10731.7	15008.9	16686.2	16717.1	15104.1	11422.1	6085.0
32.5°	621.8	1595.4	6470.0	12721.0	17396.5	19235.2	19372.4	17387.6	12979.9	7474.6
35°	705.9	1812.2	7709.1	14469.0	19803.9	22337.5	22328.6	19972.1	14825.3	8715.9
37.5°	712.5	2029.1	8831.0	16256.9	22853.0	25689.8	25970.8	23373.0	17055.7	10251.6
40°	697.0	2272.5	10251.6	19044.9	28347.2	32699.7	32947.5	29672.7	21529.8	12880.3
42.5°	714.7	2695.1	12557.2	24194.0	37470.3	43721.3	44199.2	40756.2	29754.5	18243.9
45°	807.6	3489.5	17387.6	32808.1	50474.5	58095.1	57935.8	52977.1	39324.6	26408.9
47.5°	1115.2	5434.5	24548.0	41192.1	58785.5	65571.9	65709.1	59648.5	44909.5	32686.4
50°	1714.9	8315.4	30564.4	45624.2	62359.1	69167.6	69039.3	62036.0	47031.5	35777.6
52.5°	2230.4	10399.8	33582.5	47179.8	62817.1	70944.4	70935.6	62664.4	47361.2	36043.1
55°	2358.8	10556.9	33606.9	47263.8	63843.8	73270.0	73562.1	64211.1	47788.3	34883.6
57.5°	2307.9	9346.6	32204.0	47750.6	65671.5	75069.0	75084.4	65709.1	48872.5	34173.3
58°	2263.6	9156.3	31920.8	48027.2	65985.7	75144.2	75106.6	65777.7	49755.4	34146.8
60°	2015.8	7950.3	30816.6	48733.1	65518.8	73599.7	73247.9	64279.7	49624.8	33874.6
62.5°	1584.3	6202.3	29730.2	47916.6	60513.6	66122.9	66268.9	56909.1	45239.2	32288.1
65°	1261.3	4622.4	27464.4	42030.7	49830.6	54300.3	54844.6	46277.0	37760.2	27340.4
67.5°	1004.6	3341.2	23038.9	33463.1	39430.8	45318.8	45714.9	38853.3	29254.5	20947.9
70°	816.5	2259.2	15902.9	24472.8	32522.7	39143.1	39167.5	32277.0	21835.2	13725.5
72.5°	723.6	1564.4	9231.5	17847.9	26371.3	31896.5	31252.5	26192.0	16781.3	8129.6
75°	626.2	1037.8	4527.2	10911.0	15989.2	16097.6	16343.2	12150.1	8388.4	3865.6
77.5°	515.6	736.8	1783.5	2980.5	4795.0	6138.1	6366.0	4823.7	2790.2	951.5
80°	354.0	349.6	480.2	913.9	1371.9	1719.3	1604.2	1241.3	730.2	365.1
82.5°	152.7	166.0	216.8	261.1	212.4	205.8	196.9	126.1	97.4	75.2
85°	48.7	44.3	46.5	46.5	37.6	28.8	28.8	13.3	0.0	0.0
87.5°	24.3	19.9	19.9	17.7	11.1	4.4	2.2	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: P1049778

CATALOG NUMBER: GALN-SA8B-830-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
128.3	0°	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3
119.5	2.5°	117.3	117.3	112.8	108.4	106.2	101.8	99.6	97.4	95.1	92.9
128.3	5°	123.9	121.7	115.1	108.4	101.8	95.1	90.7	86.3	81.9	79.7
141.6	7.5°	135.0	130.6	117.3	106.2	97.4	88.5	84.1	77.4	73.0	66.4
157.1	10°	148.3	139.4	121.7	108.4	95.1	84.1	77.4	70.8	64.2	55.3
179.2	12.5°	166.0	150.5	128.3	106.2	90.7	77.4	70.8	62.0	55.3	48.7
208.0	15°	181.4	161.5	130.6	106.2	86.3	70.8	62.0	53.1	46.5	37.6
261.1	17.5°	203.6	170.4	128.3	99.6	79.7	62.0	53.1	46.5	35.4	22.1
387.2	20°	241.2	177.0	123.9	92.9	68.6	50.9	39.8	31.0	15.5	4.4
581.9	22.5°	300.9	194.7	119.5	84.1	59.7	39.8	26.6	11.1	0.0	0.0
885.1	25°	416.0	225.7	119.5	79.7	53.1	28.8	8.9	0.0	0.0	0.0
1256.8	27.5°	553.2	267.7	119.5	68.6	42.0	15.5	0.0	0.0	0.0	0.0
1712.7	30°	692.6	314.2	119.5	59.7	33.2	2.2	0.0	0.0	0.0	0.0
2108.7	32.5°	825.3	354.0	121.7	50.9	22.1	0.0	0.0	0.0	0.0	0.0
2657.5	35°	960.3	360.7	119.5	44.3	13.3	0.0	0.0	0.0	0.0	0.0
3330.2	37.5°	1132.9	347.4	112.8	39.8	6.6	0.0	0.0	0.0	0.0	0.0
4381.2	40°	1394.0	354.0	106.2	37.6	2.2	0.0	0.0	0.0	0.0	0.0
6255.4	42.5°	1876.4	382.8	97.4	37.6	0.0	0.0	0.0	0.0	0.0	0.0
9963.9	45°	3243.9	513.4	88.5	39.8	0.0	0.0	0.0	0.0	0.0	0.0
14958.0	47.5°	5365.9	922.7	86.3	39.8	0.0	0.0	0.0	0.0	0.0	0.0
18018.2	50°	6848.4	1161.7	90.7	42.0	0.0	0.0	0.0	0.0	0.0	0.0
18401.0	52.5°	6837.3	1294.4	95.1	44.3	8.9	0.0	0.0	0.0	0.0	0.0
16960.5	55°	6078.4	1318.8	101.8	48.7	28.8	0.0	0.0	0.0	0.0	0.0
14575.2	57.5°	5080.4	1203.7	117.3	59.7	53.1	0.0	0.0	0.0	0.0	0.0
14201.3	58°	4903.4	1150.6	121.7	62.0	57.5	0.0	0.0	0.0	0.0	0.0
12318.2	60°	4018.3	938.2	154.9	77.4	77.4	0.0	0.0	0.0	0.0	0.0
10098.9	62.5°	2774.8	818.7	177.0	99.6	79.7	0.0	0.0	0.0	0.0	0.0
7445.8	65°	1962.7	739.1	192.5	106.2	64.2	0.0	0.0	0.0	0.0	0.0
5290.6	67.5°	1467.0	681.5	212.4	108.4	33.2	0.0	0.0	0.0	0.0	0.0
3319.1	70°	1124.1	639.5	261.1	115.1	8.9	0.0	0.0	0.0	0.0	0.0
1978.2	72.5°	916.1	590.8	316.4	119.5	0.0	0.0	0.0	0.0	0.0	0.0
1186.0	75°	759.0	533.3	305.4	130.6	0.0	0.0	0.0	0.0	0.0	0.0
632.8	77.5°	504.5	413.8	278.8	130.6	0.0	0.0	0.0	0.0	0.0	0.0
225.7	80°	177.0	163.7	216.8	115.1	0.0	0.0	0.0	0.0	0.0	0.0
46.5	82.5°	26.6	22.1	31.0	39.8	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: P1049778

CATALOG NUMBER: GALN-SA8B-830-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
128.3	0°	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3
90.7	2.5°	90.7	90.7	88.5	90.7	90.7	95.1	106.2	121.7	139.4	146.0
77.4	5°	75.2	73.0	70.8	70.8	70.8	77.4	86.3	104.0	123.9	132.8
64.2	7.5°	62.0	59.7	57.5	55.3	55.3	59.7	70.8	90.7	110.6	119.5
53.1	10°	50.9	46.5	44.3	42.0	42.0	46.5	57.5	77.4	99.6	108.4
44.3	12.5°	42.0	35.4	31.0	28.8	26.6	33.2	44.3	62.0	86.3	97.4
33.2	15°	28.8	22.1	15.5	13.3	11.1	17.7	28.8	48.7	73.0	86.3
17.7	17.5°	15.5	6.6	2.2	0.0	0.0	4.4	13.3	35.4	59.7	70.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	44.3	55.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	26.6	37.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	19.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
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	6.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	17.7
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: P1049778

CATALOG NUMBER: GALN-SA8B-830-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
128.3	0°	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3
152.7	2.5°	157.1	154.9	150.5	146.0	146.0	146.0	152.7	159.3	166.0	166.0
137.2	5°	146.0	146.0	143.8	139.4	139.4	141.6	150.5	161.5	170.4	172.6
126.1	7.5°	135.0	139.4	135.0	132.8	135.0	137.2	146.0	159.3	172.6	177.0
117.3	10°	128.3	130.6	130.6	128.3	128.3	132.8	141.6	159.3	177.0	183.7
106.2	12.5°	119.5	123.9	121.7	121.7	121.7	126.1	137.2	157.1	181.4	190.3
95.1	15°	110.6	117.3	117.3	115.1	115.1	117.3	132.8	154.9	188.1	203.6
81.9	17.5°	101.8	108.4	110.6	106.2	106.2	110.6	126.1	154.9	192.5	219.1
66.4	20°	84.1	95.1	101.8	95.1	95.1	99.6	115.1	146.0	194.7	234.5
48.7	22.5°	66.4	77.4	86.3	84.1	84.1	86.3	106.2	139.4	196.9	261.1
28.8	25°	48.7	59.7	66.4	70.8	70.8	77.4	97.4	135.0	205.8	316.4
13.3	27.5°	28.8	42.0	50.9	55.3	57.5	66.4	90.7	130.6	221.3	396.1
0.0	30°	13.3	24.3	35.4	44.3	44.3	59.7	84.1	126.1	241.2	511.1
0.0	32.5°	0.0	11.1	17.7	31.0	33.2	48.7	77.4	121.7	270.0	621.8
0.0	35°	0.0	0.0	8.9	24.3	24.3	39.8	70.8	117.3	314.2	705.9
0.0	37.5°	0.0	0.0	0.0	17.7	19.9	35.4	68.6	115.1	323.1	712.5
0.0	40°	0.0	0.0	0.0	13.3	15.5	33.2	68.6	117.3	292.1	697.0
0.0	42.5°	0.0	0.0	0.0	8.9	11.1	33.2	68.6	121.7	263.3	714.7
0.0	45°	0.0	0.0	0.0	6.6	8.9	35.4	66.4	119.5	247.8	807.6
0.0	47.5°	0.0	0.0	0.0	8.9	13.3	35.4	64.2	117.3	250.0	1115.2
0.0	50°	0.0	0.0	0.0	11.1	15.5	35.4	66.4	112.8	274.4	1714.9
0.0	52.5°	0.0	0.0	0.0	8.9	13.3	39.8	73.0	110.6	298.7	2230.4
0.0	55°	0.0	0.0	0.0	2.2	6.6	50.9	79.7	110.6	336.3	2358.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	57.5	90.7	117.3	398.3	2307.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	57.5	92.9	117.3	402.7	2263.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	57.5	101.8	130.6	433.7	2015.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	48.7	121.7	163.7	451.4	1584.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	39.8	143.8	179.2	464.7	1261.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	37.6	148.3	181.4	471.3	1004.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	39.8	146.0	194.7	493.4	816.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	44.3	132.8	214.6	493.4	723.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	46.5	123.9	241.2	449.2	626.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	44.3	121.7	281.0	400.5	515.6
0.0	80°	4.4	6.6	6.6	4.4	4.4	37.6	119.5	285.4	340.8	354.0
2.2	82.5°	13.3	17.7	15.5	11.1	11.1	33.2	106.2	239.0	177.0	152.7
13.3	85°	24.3	28.8	28.8	24.3	24.3	31.0	66.4	86.3	59.7	48.7
24.3	87.5°	33.2	37.6	37.6	33.2	33.2	31.0	28.8	26.6	24.3	24.3
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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

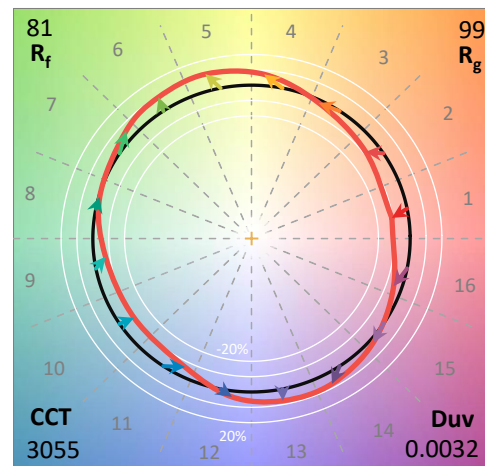
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

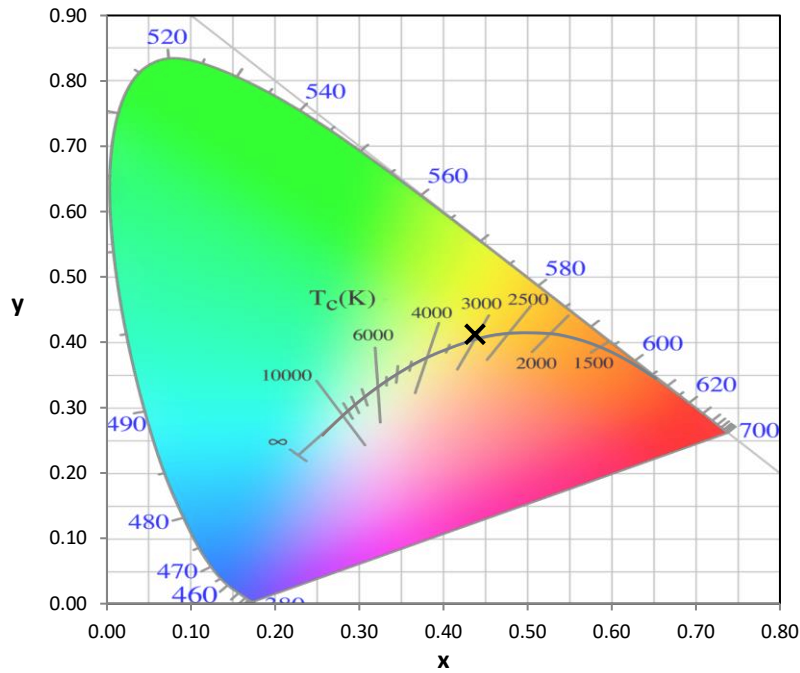
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

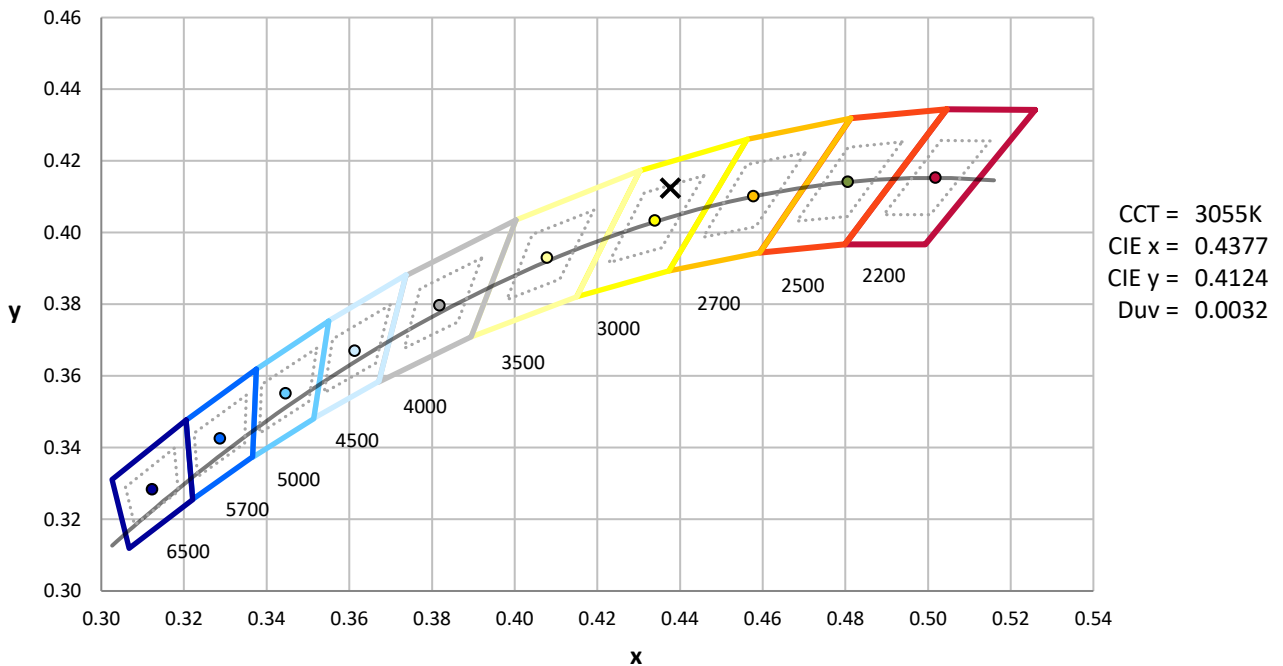
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram

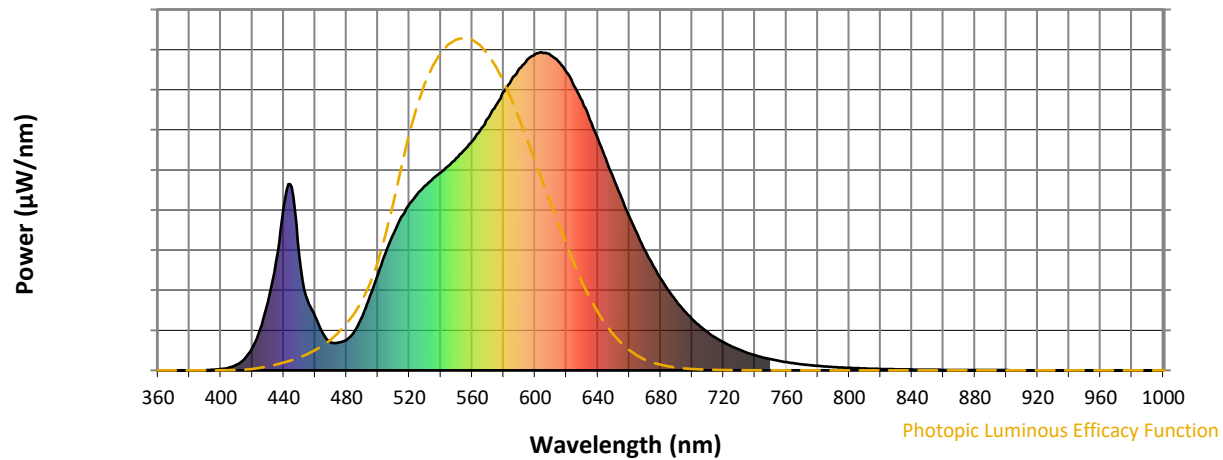


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

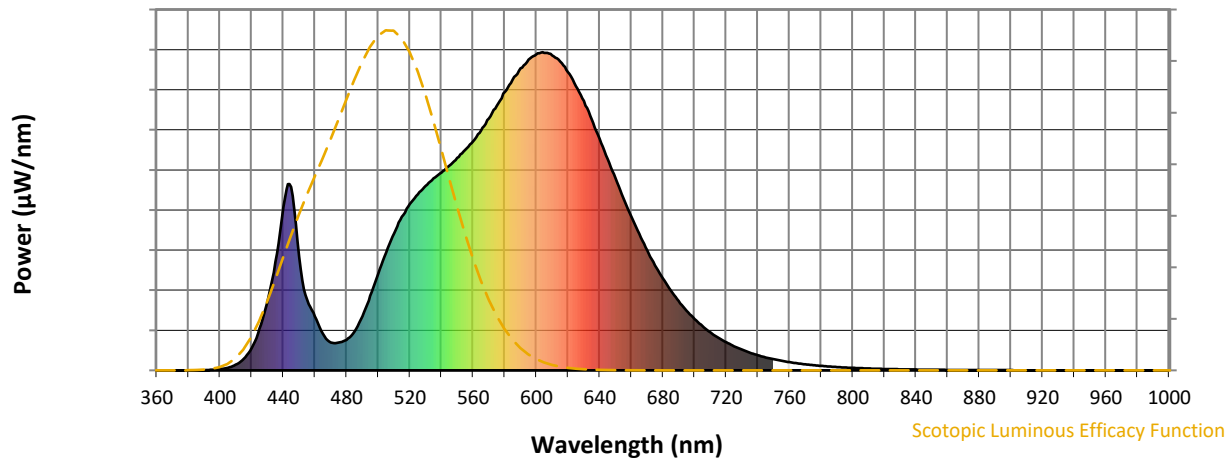


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



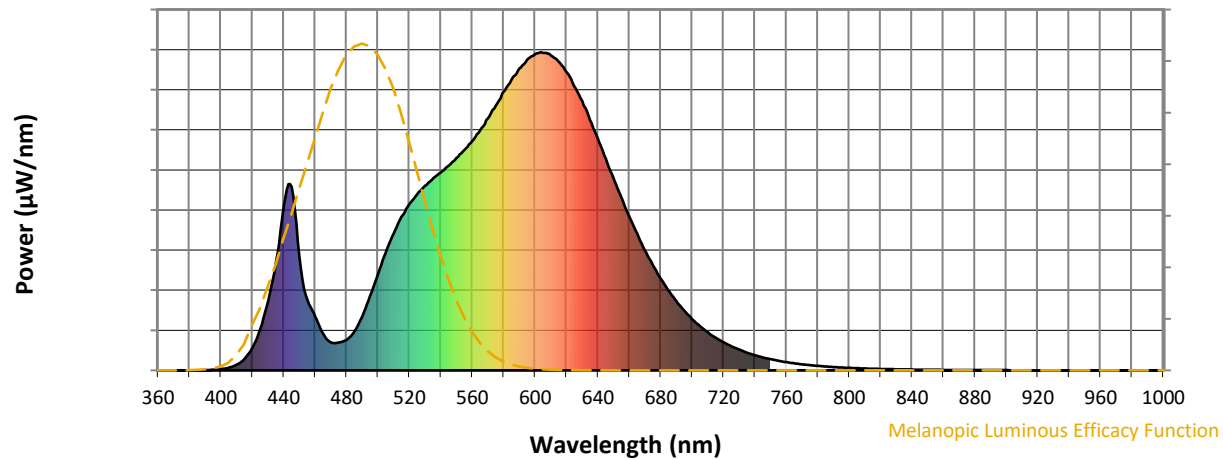
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

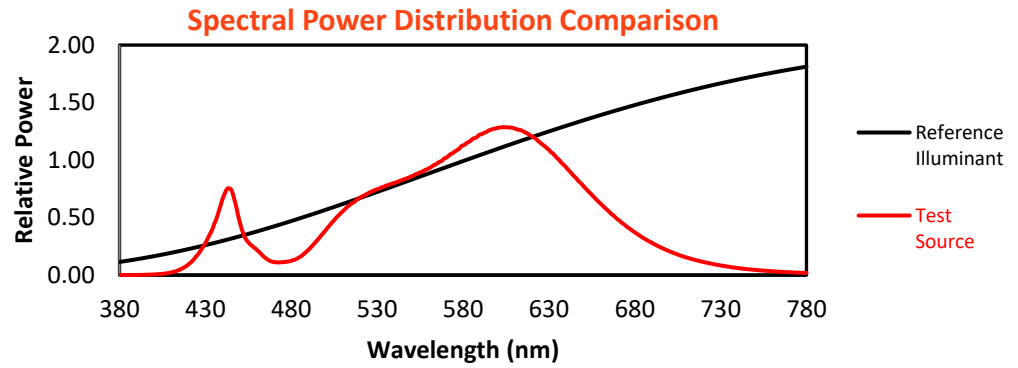
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

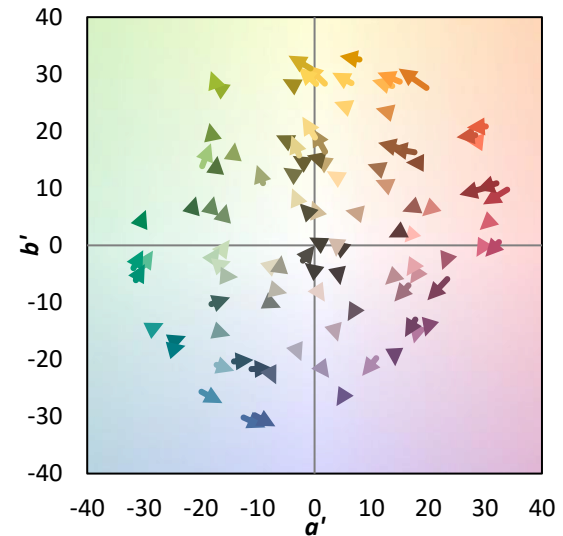
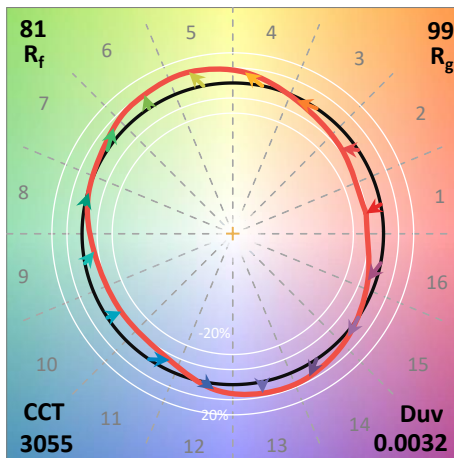
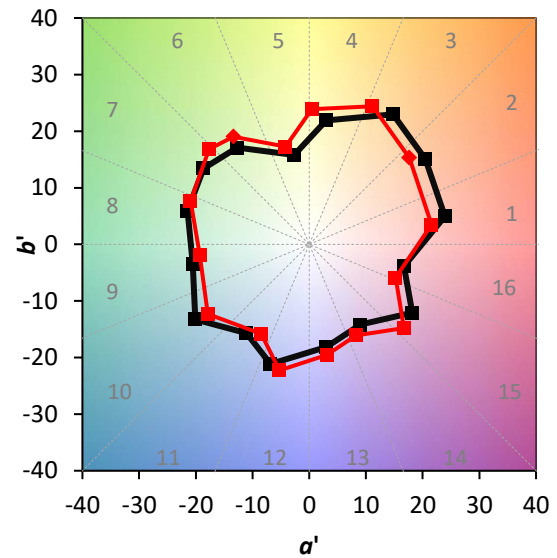
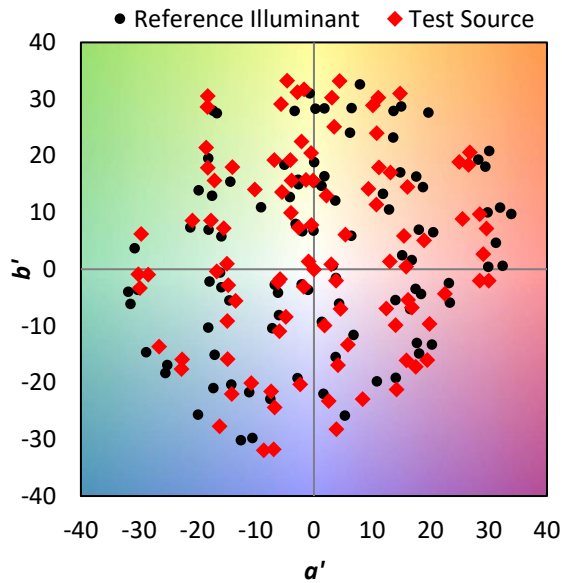
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

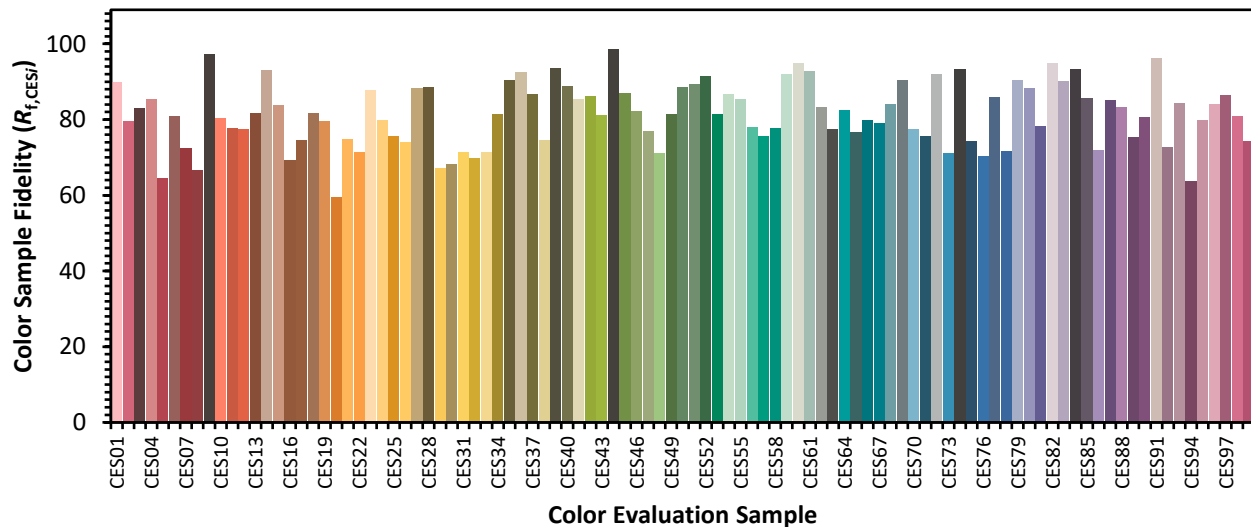


Color Vector Graphics

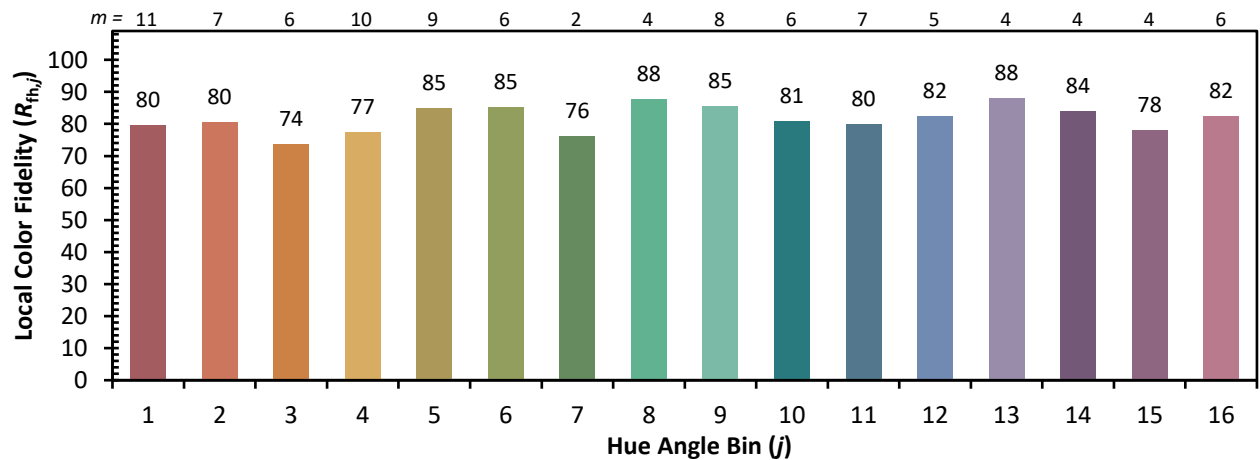
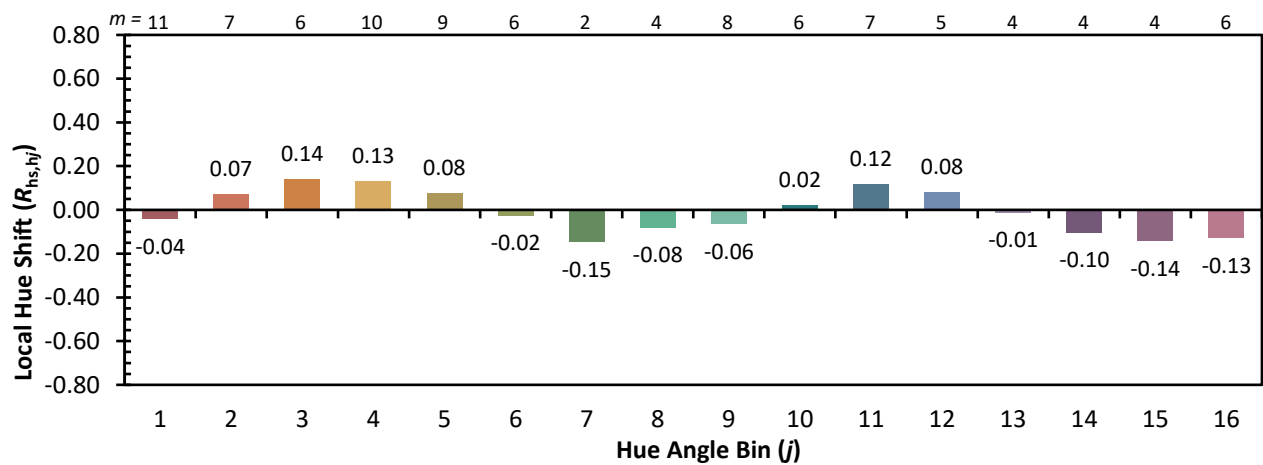
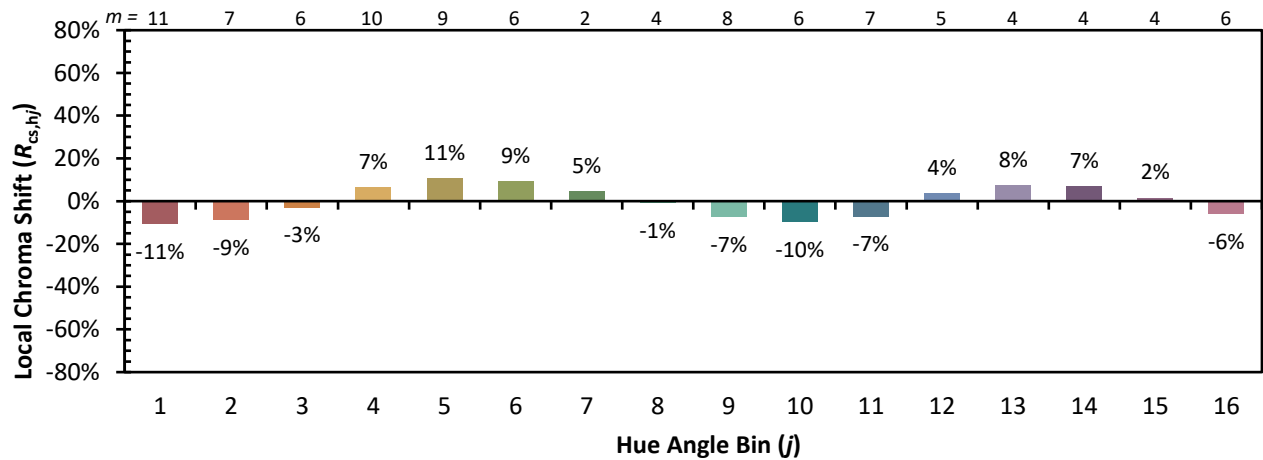


Individual Sample Fidelity Index ($R_{f,i}$)

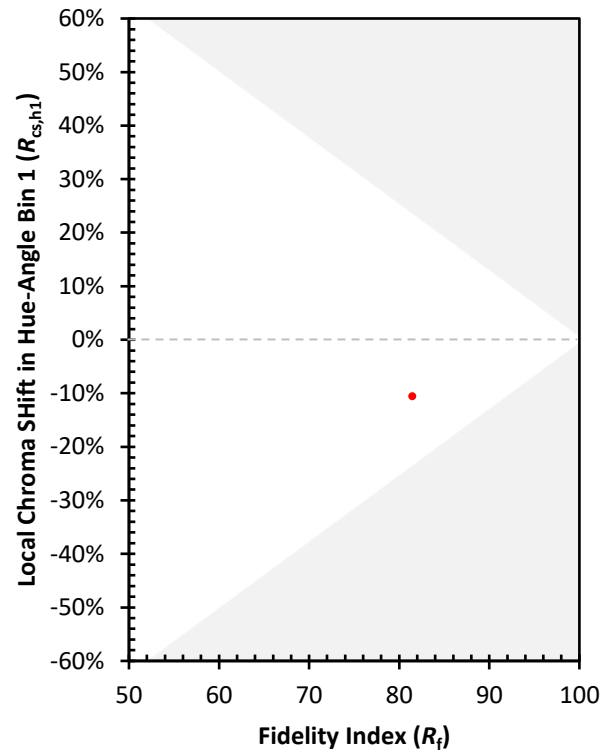
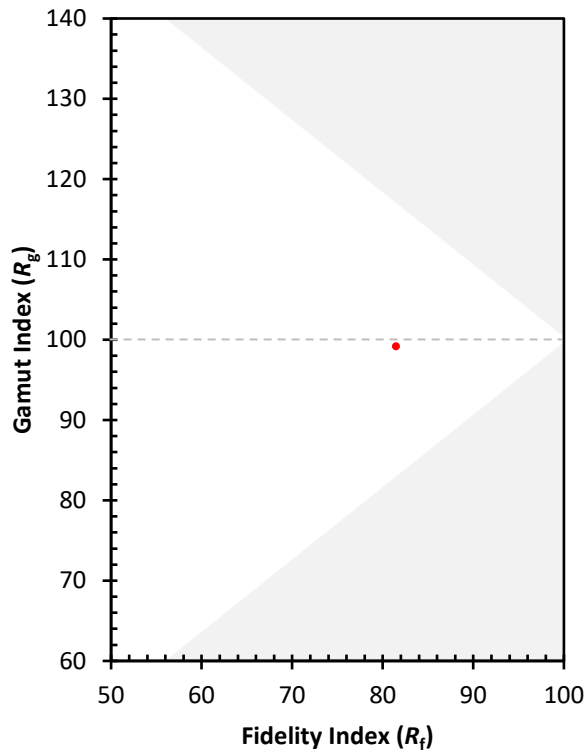
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)