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

Scaled data based on original data using

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

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P629577

Luminaire Tested: GWS-SA1B-830-U-SLR-W-HSS

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P629577
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1B-830-U-SLR-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1766.9 lumens
Efficiency:	N/A
Efficacy:	70.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B0 - U0 - G1

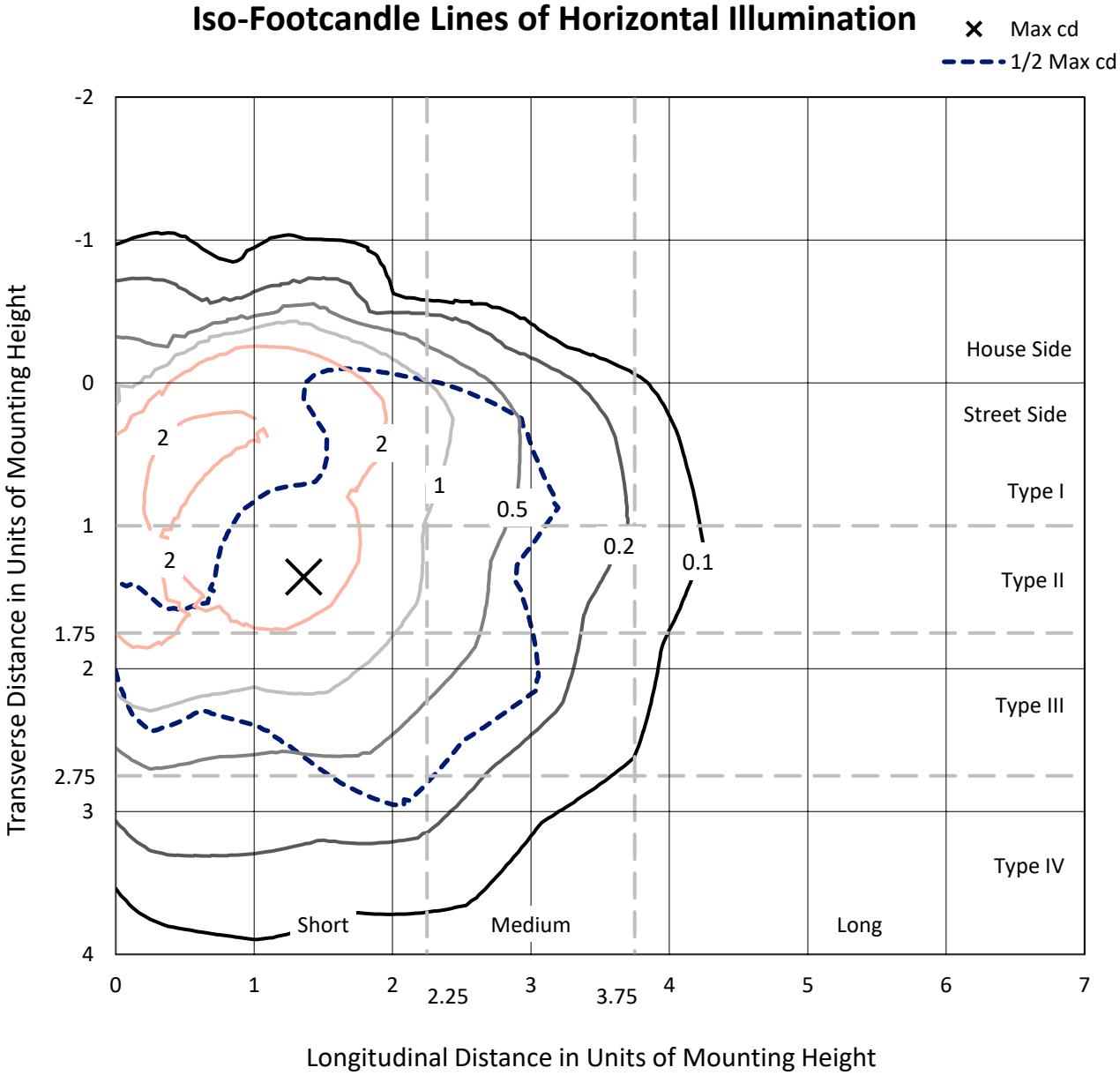
Input Watts (W):	25
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P629577
CATALOG NUMBER: GWS-SA1B-830-U-SLR-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



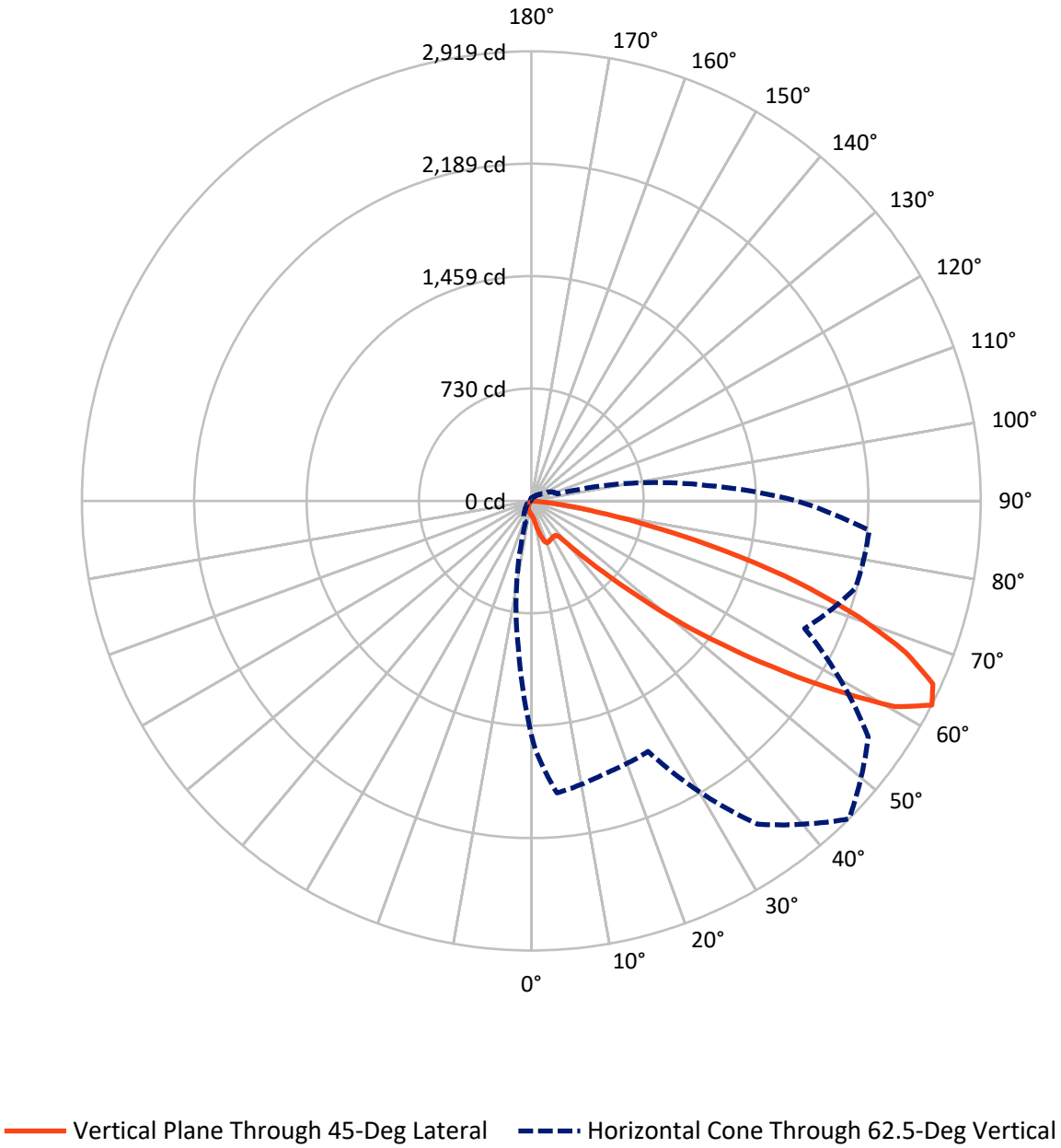
Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P629577
CATALOG NUMBER: GWS-SA1B-830-U-SLR-W-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

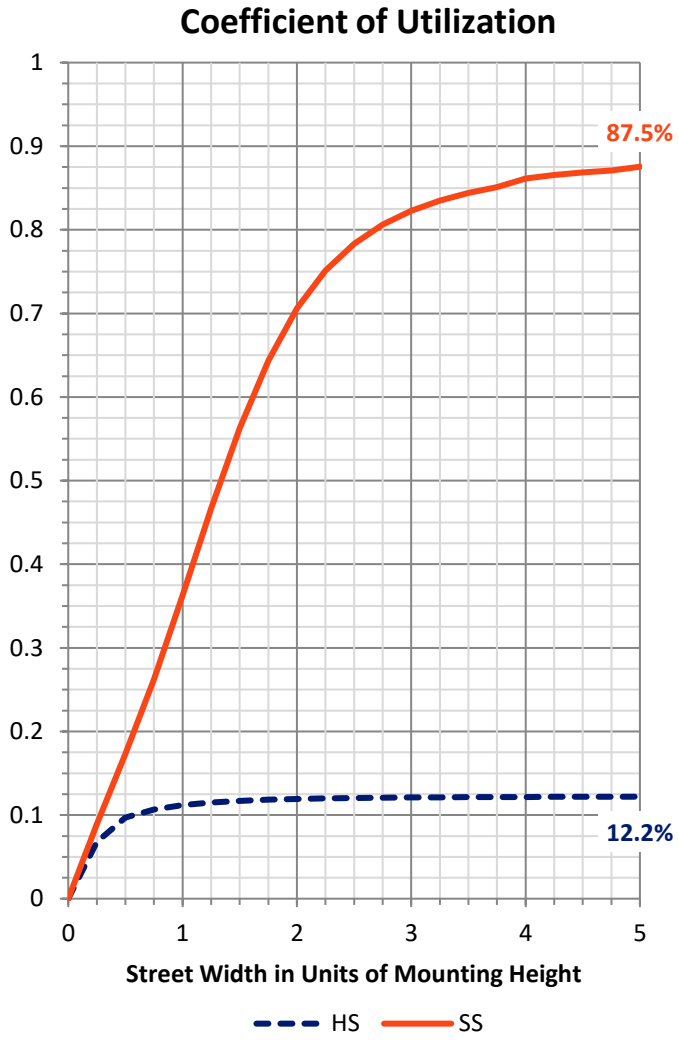
REPORT NUMBER: P629577
CATALOG NUMBER: GWS-SA1B-830-U-SLR-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	218.0	0.0	218.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	1548.9	0.0	1548.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	1766.9	0.0	1766.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.5
10°-20°	30.8	1.7
20°-30°	67.0	3.8
30°-40°	109.9	6.2
40°-50°	202.1	11.4
50°-60°	433.9	24.6
60°-70°	582.8	33.0
70°-80°	303.5	17.2
80°-90°	28.8	1.6
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°	1766.9	100.0
0°-180°	1766.9	100.0



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

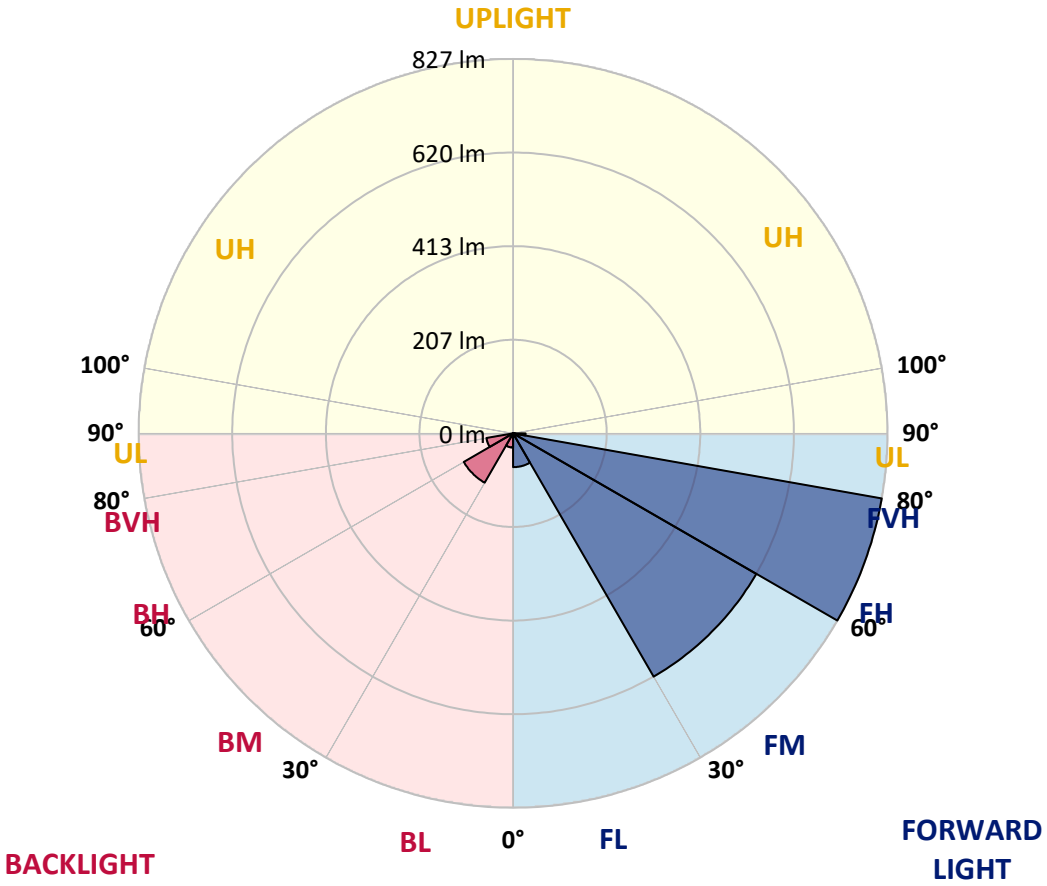
Scaled Data Report

REPORT NUMBER: P629577
CATALOG NUMBER: GWS-SA1B-830-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	74.6	4.2			
FM	(30°-60°)	620.2	35.1			
FH	(60°-80°)	826.6	46.8			G1/1800
FVH	(80°-90°)	27.5	1.6			G1/100
BL	(0°-30°)	31.3	1.8	B0/110		
BM	(30°-60°)	125.7	7.1	B0/220		
BH	(60°-80°)	59.7	3.4	B0/110		G0/110
BVH	(80°-90°)	1.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P629577
CATALOG NUMBER: GWS-SA1B-830-U-SLR-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	91.8	91.8	91.8	91.8	91.8	91.8	*91.8*	91.8	91.8	91.8	91.8
2.5°	93.7	94.1	94.5	95.9	96.9	97.8	*98.0*	97.4	95.9	94.5	92.5
5°	90.8	91.2	92.7	96.5	100.4	103.5	*104.5*	103.9	100.4	95.9	91.2
7.5°	90.6	91.4	94.9	103.1	111.4	117.8	*119.4*	118.0	111.4	102.5	92.9
10°	98.0	99.4	104.5	119.2	134.5	145.7	*150.2*	144.1	133.7	117.4	101.6
12.5°	117.1	119.6	129.4	150.8	174.5	189.4	*195.5*	188.0	171.6	148.0	123.1
15°	147.4	151.0	165.7	197.8	225.7	239.0	*241.0*	236.7	217.8	191.6	158.2
17.5°	190.0	195.3	218.2	250.8	271.0	275.7	*275.1*	270.6	256.7	238.8	207.2
20°	241.0	247.4	269.8	296.8	298.8	293.3	*290.2*	287.6	282.9	279.8	255.1
22.5°	292.5	300.2	323.7	330.4	312.1	296.1	*288.6*	290.6	297.6	312.7	302.7
25°	343.7	351.0	373.1	354.9	318.2	291.6	*282.1*	287.0	303.5	336.1	349.0
27.5°	403.5	409.0	422.1	371.7	319.2	288.0	*278.6*	286.1	306.3	350.8	399.8
30°	465.7	469.0	462.7	376.1	315.7	282.5	*275.1*	286.1	311.2	360.6	438.0
32.5°	511.5	512.1	491.5	376.6	313.9	278.0	*271.9*	284.9	315.9	368.8	474.9
35°	558.6	555.5	519.0	382.7	318.8	279.6	*274.3*	288.4	323.3	378.4	507.4
37.5°	606.4	600.8	549.8	392.7	331.4	297.4	*294.1*	306.1	335.1	391.7	543.1
40°	655.3	647.8	581.9	407.8	359.6	357.8	*369.0*	367.6	367.6	408.6	579.8
42.5°	715.1	706.4	629.2	450.4	425.3	466.4	*497.0*	478.0	442.9	447.6	627.6
45°	794.1	786.6	711.3	532.1	528.4	622.7	*663.9*	626.4	539.0	537.6	707.4
47.5°	920.5	919.0	842.1	626.8	654.5	821.7	*901.3*	829.0	648.6	632.9	858.4
50°	1098.0	1093.7	1005.2	737.8	804.5	1068.2	*1210.3*	1089.9	781.1	744.1	1060.7
52.5°	1298.0	1302.5	1233.5	859.0	963.9	1342.5	*1540.3*	1388.6	924.9	885.6	1315.2
55°	1486.4	1512.1	1494.0	1000.9	1119.7	1645.4	*1902.8*	1716.4	1103.1	1070.7	1600.5
57.5°	1633.8	1706.2	1833.6	1207.0	1302.7	1999.7	*2307.5*	2071.7	1311.1	1371.3	1988.9
60°	1641.9	1737.9	2033.6	1638.3	1538.2	2303.6	*2711.6*	2418.9	1638.0	1881.7	2293.2
62.5°	*1518.9*	*1621.7*	*1903.4*	*1834.2*	*1794.8*	*2562.2*	*2918.9*	*2672.0*	*1959.7*	*2180.7*	*2203.0*
65°	1378.0	1481.9	1758.1	1611.9	1765.0	2551.2	*2866.3*	2677.9	1988.9	1977.5	2041.5
67.5°	1165.2	1258.4	1508.5	1426.8	1626.8	2428.1	*2623.0*	2509.1	1832.3	1849.5	1878.1
70°	850.5	940.3	1172.3	1176.4	1420.7	2206.2	*2253.8*	2238.1	1687.4	1705.6	1624.0
72.5°	614.3	690.0	890.3	964.7	1134.1	1850.1	*1817.2*	1877.9	1447.8	1519.1	1304.4
75°	441.7	498.4	653.1	839.2	899.0	1374.0	*1300.9*	1454.4	1161.7	1308.0	980.7
77.5°	179.2	199.2	257.0	565.3	590.8	924.3	*796.4*	1056.4	828.2	859.4	475.3
80°	7.3	8.2	10.6	291.9	405.1	520.0	*426.1*	564.7	547.0	346.1	112.3
82.5°	0.8	0.8	1.8	84.1	177.4	287.0	*200.8*	325.3	277.0	146.7	51.0
85°	0.2	0.2	0.4	9.6	41.6	45.9	*27.1*	99.8	128.8	60.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	1.0	1.8	2.0	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

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

Scaled Data Report

REPORT NUMBER: P629577
CATALOG NUMBER: GWS-SA1B-830-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
2.5°	92.5	91.4	90.2	89.0	88.4	86.7	86.1	85.7	85.3	85.5	85.5
5°	89.4	87.1	84.5	81.8	80.4	78.8	78.0	77.6	77.8	78.6	78.6
7.5°	89.0	84.7	79.0	75.5	73.9	72.7	71.8	71.4	71.6	72.7	73.1
10°	95.7	88.2	78.0	72.0	70.2	69.0	68.2	67.6	67.1	68.0	68.2
12.5°	110.2	99.8	82.9	71.6	68.4	66.7	66.1	64.9	64.3	64.7	64.9
15°	140.2	122.3	92.7	73.3	66.7	64.9	63.9	62.9	61.8	61.6	61.8
17.5°	179.4	153.7	107.6	77.1	65.5	63.3	61.8	60.4	59.0	58.8	58.6
20°	228.0	192.3	128.4	83.3	64.5	61.8	59.8	57.8	55.9	55.3	55.3
22.5°	272.3	238.8	155.1	90.8	63.1	59.8	57.4	54.9	52.9	51.8	51.6
25°	326.3	288.2	187.2	99.6	61.0	57.1	54.5	52.0	50.0	48.8	48.4
27.5°	380.8	340.2	223.5	111.0	58.6	54.5	52.0	49.8	47.6	46.1	45.7
30°	433.7	396.3	264.3	125.3	56.7	51.8	49.8	47.6	45.5	43.3	42.7
32.5°	490.4	453.7	310.0	141.2	55.3	50.0	47.8	45.7	43.1	41.0	40.0
35°	545.1	512.9	360.4	156.7	53.9	48.4	45.9	43.9	41.0	38.8	37.3
37.5°	600.2	573.1	413.1	166.1	51.8	46.1	43.9	42.2	39.0	36.3	34.7
40°	658.6	635.3	470.0	162.3	50.0	43.7	42.5	40.6	36.9	33.9	31.8
42.5°	722.7	694.7	528.0	147.4	48.4	41.6	40.4	38.6	35.1	31.4	28.8
45°	803.3	759.8	575.5	124.9	49.2	39.6	37.1	36.7	33.5	28.8	25.5
47.5°	941.9	859.8	612.5	110.4	54.7	37.3	34.5	35.5	32.0	26.1	22.5
50°	1153.9	1025.6	647.0	109.4	63.1	36.3	32.0	34.7	30.6	23.5	19.8
52.5°	1356.0	1193.9	669.0	118.4	70.4	39.0	29.6	33.7	29.6	21.6	18.0
55°	1549.3	1291.1	629.6	124.9	77.4	46.9	27.8	32.0	28.4	20.6	17.3
57.5°	1757.6	1334.4	495.7	138.2	82.2	53.7	28.2	29.6	26.7	20.0	17.1
60°	1819.9	1279.1	299.2	155.5	79.6	55.7	31.2	26.3	24.5	18.8	16.5
62.5°	*1723.2*	*1147.8*	*176.5*	*141.6*	*77.4*	*52.7*	*35.7*	*24.3*	*22.2*	*17.1*	*15.3*
65°	1578.5	969.6	115.1	119.6	82.0	46.9	38.0	23.3	20.2	15.5	13.5
67.5°	1413.1	781.1	80.6	70.6	75.7	42.2	32.0	23.1	18.2	13.1	11.0
70°	1190.3	584.9	56.7	46.7	63.1	37.6	24.9	22.5	15.9	10.6	8.6
72.5°	919.6	366.1	42.2	30.2	44.9	30.6	19.8	19.0	12.9	8.8	6.5
75°	678.2	208.8	29.8	21.8	29.6	23.3	14.7	13.5	11.0	8.4	5.9
77.5°	354.1	104.5	18.6	16.7	16.9	14.5	10.6	9.8	10.2	8.4	5.5
80°	68.0	20.8	11.2	12.2	9.2	9.2	7.8	8.2	9.0	6.7	4.7
82.5°	28.4	4.5	6.1	6.9	5.7	6.3	6.3	6.5	6.3	4.9	3.5
85°	0.0	0.0	2.7	2.9	3.9	3.9	3.3	3.3	3.3	2.9	2.0
87.5°	0.0	0.0	0.0	0.0	0.2	0.6	1.2	1.4	1.6	1.2	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P629577
CATALOG NUMBER: GWS-SA1B-830-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
2.5°	85.3	84.9	85.5	85.9	86.3	86.3	85.9	85.5	84.9	85.5	84.9
5°	78.8	79.4	80.4	80.8	81.2	80.4	80.0	78.8	77.8	78.0	77.6
7.5°	73.7	74.3	75.5	76.3	76.3	75.9	74.7	73.5	71.8	71.8	71.6
10°	69.0	69.8	71.2	72.2	72.7	72.2	71.0	69.4	68.0	68.0	67.4
12.5°	65.1	66.1	67.8	69.2	69.6	69.2	68.0	66.3	64.7	64.7	64.3
15°	61.8	63.1	64.9	66.5	67.1	66.5	65.1	63.1	61.4	61.6	61.0
17.5°	58.8	59.8	62.2	64.1	64.7	64.1	62.2	59.6	58.0	58.4	58.0
20°	55.3	56.5	59.0	61.0	61.6	61.0	59.0	56.1	54.5	54.5	54.7
22.5°	51.6	52.9	55.3	56.7	57.6	56.9	54.9	52.2	50.6	50.6	50.8
25°	48.4	49.0	50.8	52.2	52.5	51.8	50.2	48.2	46.9	47.6	47.8
27.5°	45.3	45.3	46.1	46.9	46.7	46.1	45.5	43.9	43.7	44.3	44.9
30°	42.0	41.0	40.6	40.0	39.8	39.6	40.2	40.2	40.6	41.4	42.0
32.5°	39.2	37.1	35.3	33.5	32.5	33.3	34.9	36.3	37.8	39.0	39.6
35°	35.9	32.7	29.6	27.1	25.5	26.7	29.4	32.0	34.5	36.1	37.1
37.5°	32.7	28.0	24.3	21.2	20.0	21.0	23.9	27.6	31.2	33.3	34.7
40°	29.2	23.3	19.0	16.5	15.3	16.3	19.2	22.9	27.8	30.4	32.2
42.5°	25.7	19.2	15.3	12.9	12.2	12.9	15.1	18.8	24.1	27.3	29.8
45°	22.2	15.9	12.2	10.4	9.8	10.4	12.2	15.3	20.6	24.3	27.1
47.5°	19.2	13.5	10.2	8.6	8.2	8.8	10.2	12.9	17.3	21.0	24.3
50°	16.7	11.8	8.8	7.3	6.9	7.6	8.8	10.8	14.7	18.0	21.4
52.5°	15.1	11.0	7.8	6.3	6.1	6.5	7.6	9.2	12.4	15.3	18.6
55°	14.7	11.0	7.1	5.7	5.5	5.9	6.7	8.0	10.8	13.3	16.1
57.5°	15.1	11.8	6.7	4.9	4.7	5.1	5.9	6.9	9.4	11.4	14.1
60°	15.1	12.0	5.9	3.9	3.7	4.1	4.9	6.1	8.4	10.0	12.2
62.5°	*13.7*	*11.0*	*4.9*	*3.1*	*2.7*	*3.1*	*4.1*	*5.1*	*7.3*	*9.0*	*10.8*
65°	11.8	9.4	4.1	2.2	1.8	2.2	3.3	4.3	6.3	7.8	9.8
67.5°	9.6	7.1	3.1	1.6	1.2	1.6	2.4	3.5	5.3	6.7	8.8
70°	7.1	5.1	2.4	1.4	1.2	1.4	2.2	3.3	4.7	6.1	8.2
72.5°	5.3	3.5	2.0	1.4	1.0	1.4	2.0	3.1	4.5	5.9	7.8
75°	4.5	2.9	1.8	1.2	1.0	1.2	1.8	2.9	4.1	5.5	7.3
77.5°	4.3	2.7	1.6	1.0	0.8	1.0	1.6	2.4	3.7	5.1	7.1
80°	3.7	2.2	1.4	0.8	0.6	0.8	1.4	2.0	2.9	3.9	5.5
82.5°	2.9	1.8	1.0	0.4	0.2	0.4	1.0	1.2	1.8	2.2	3.3
85°	1.8	1.0	0.4	0.0	0.0	0.0	0.4	0.8	0.8	1.0	1.6
87.5°	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P629577
CATALOG NUMBER: GWS-SA1B-830-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
2.5°	86.1	86.3	86.7	87.4	88.8	90.0	91.2	92.9	93.7	93.7
5°	78.0	78.2	78.4	79.2	81.2	82.9	85.5	88.8	90.4	90.8
7.5°	71.6	72.0	72.5	73.1	75.1	77.4	80.8	86.9	90.0	90.6
10°	68.0	68.6	69.4	70.6	72.5	74.9	80.8	91.8	96.9	98.0
12.5°	65.1	66.1	66.9	68.4	70.6	74.5	86.3	105.7	114.7	117.1
15°	62.2	63.5	64.7	66.1	68.6	75.9	96.9	130.6	145.5	147.4
17.5°	59.4	60.8	62.5	64.1	67.1	79.4	113.7	165.1	185.9	190.0
20°	56.1	58.0	60.2	62.2	65.7	84.9	136.9	206.1	232.3	241.0
22.5°	52.7	54.9	57.6	60.2	64.1	91.6	165.1	250.2	286.8	292.5
25°	49.8	52.0	54.5	57.1	61.4	99.8	199.2	304.9	338.2	343.7
27.5°	47.1	49.4	51.6	54.1	58.8	110.4	240.2	363.1	397.8	403.5
30°	44.3	46.9	49.2	51.6	56.3	123.5	287.6	427.6	460.4	465.7
32.5°	41.8	44.5	46.7	49.2	54.5	137.8	337.4	484.7	511.5	511.5
35°	39.8	42.7	44.3	47.6	53.1	146.9	384.5	539.2	559.4	558.6
37.5°	37.6	41.0	42.2	44.5	51.2	148.0	428.8	596.8	611.7	606.4
40°	35.3	39.0	40.8	42.0	49.2	139.6	477.4	649.6	662.3	655.3
42.5°	33.3	36.1	38.8	40.2	48.0	124.9	516.4	706.2	721.3	715.1
45°	31.2	33.7	35.3	38.0	48.8	114.7	549.8	772.1	798.6	794.1
47.5°	29.2	31.2	32.2	36.3	54.3	110.0	570.2	874.1	924.1	920.5
50°	26.9	29.4	29.4	35.9	62.5	111.6	588.0	1021.9	1099.2	1098.0
52.5°	24.7	27.3	26.9	39.0	68.8	119.2	608.2	1152.3	1286.8	1298.0
55°	22.5	24.9	25.3	45.1	72.5	125.7	530.0	1207.2	1447.0	1486.4
57.5°	20.0	21.4	26.3	49.8	71.2	144.7	363.1	1217.2	1549.3	1633.8
60°	17.3	18.6	29.8	48.8	67.4	133.7	228.6	1127.4	1534.8	1641.9
62.5°	*15.1*	*17.1*	*31.4*	*43.1*	*68.6*	*115.9*	*145.7*	*960.9*	*1396.6*	*1518.9*
65°	13.3	16.5	28.6	39.0	69.4	78.6	98.4	781.7	1261.7	1378.0
67.5°	11.8	18.4	23.5	34.7	59.6	55.3	67.6	607.4	1060.9	1165.2
70°	10.8	18.8	19.2	29.8	46.1	35.5	44.5	408.8	731.3	850.5
72.5°	9.8	13.9	14.5	23.9	29.8	21.6	28.8	233.9	533.1	614.3
75°	9.4	9.4	10.0	15.5	16.5	15.7	18.6	139.6	382.3	441.7
77.5°	8.8	7.1	6.3	10.0	9.0	11.2	11.0	62.0	165.7	179.2
80°	6.9	5.1	4.3	6.3	6.1	7.6	6.5	5.1	7.6	7.3
82.5°	4.3	3.3	3.1	3.9	3.5	3.9	3.1	0.8	0.8	0.8
85°	2.0	1.8	1.6	1.6	1.8	1.6	1.2	0.4	0.2	0.2
87.5°	1.0	1.0	0.8	0.6	0.8	0.8	0.6	0.2	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

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: SP1-2408-195-9

Test Date: 08/07/2024

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

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

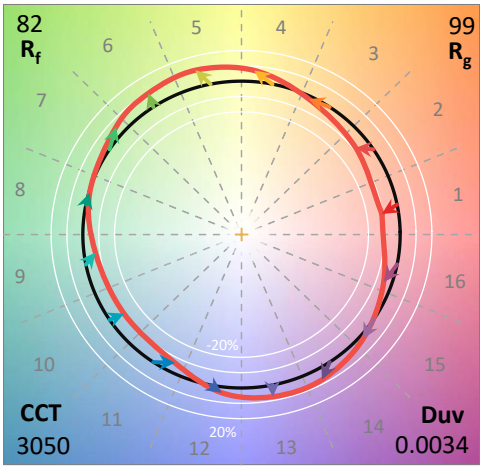
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				
Rf:	81.5				
Rg:	99.2				



Test Conditions

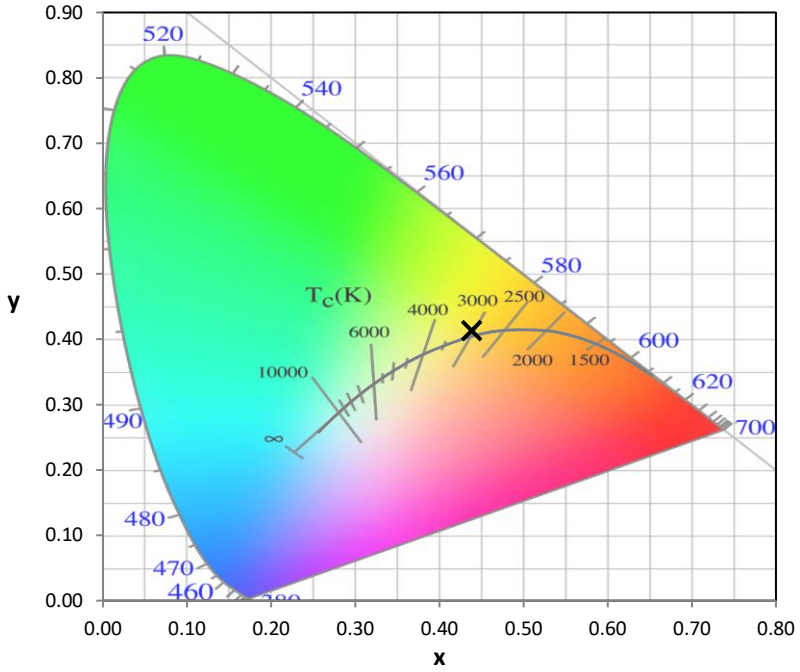
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

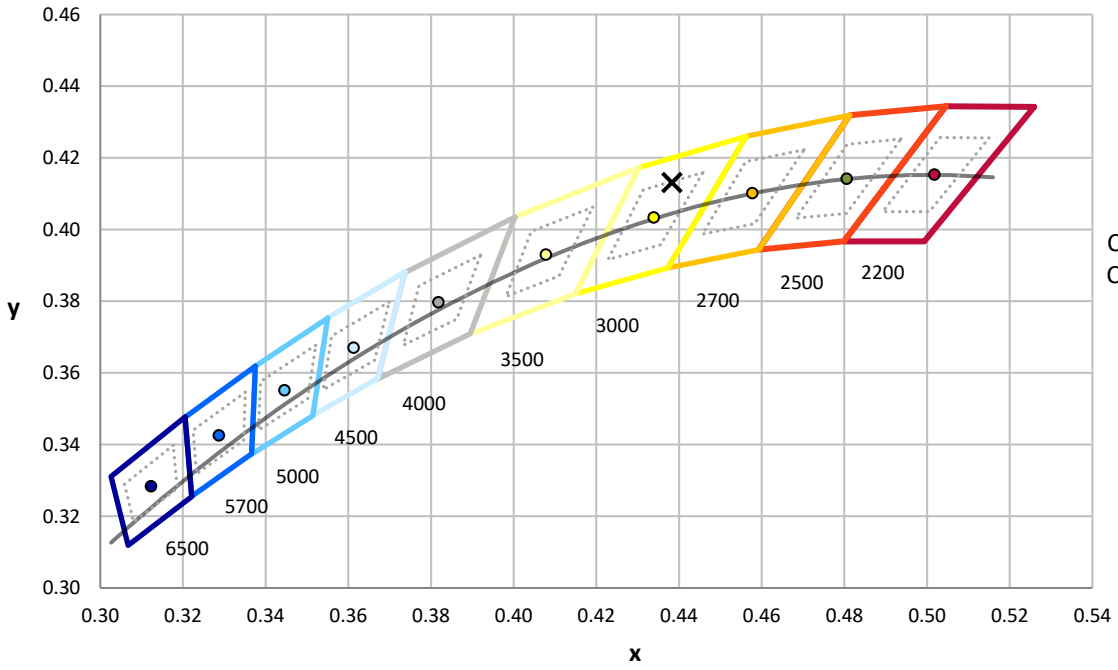
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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

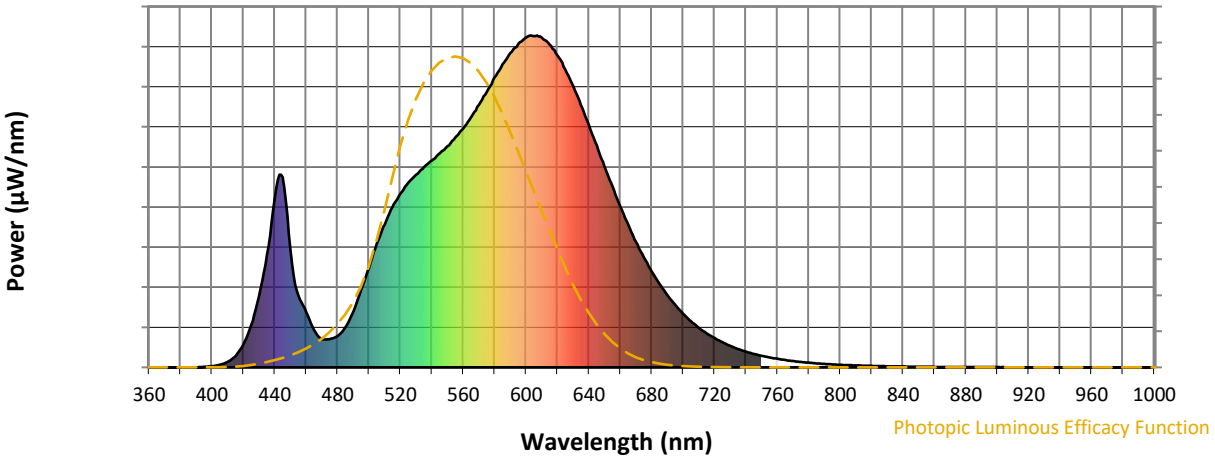


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

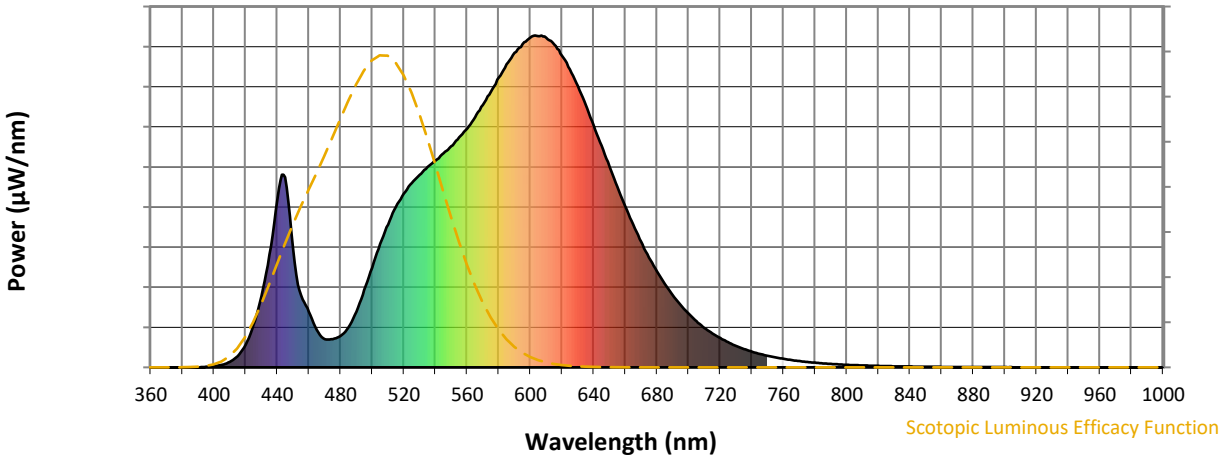


Photopic Lumens: NR

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

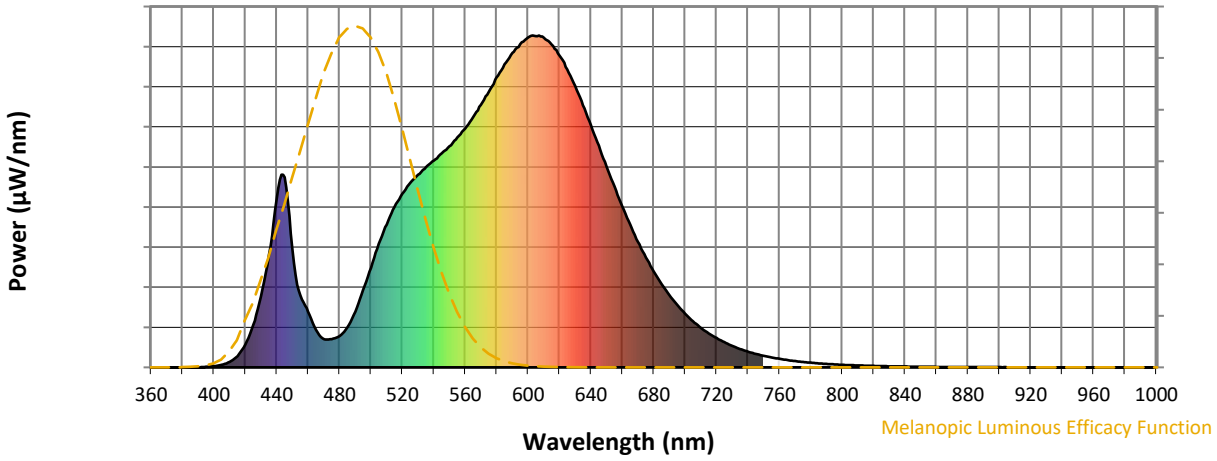


Scotopic Lumens: NR **S/P: 1.27**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

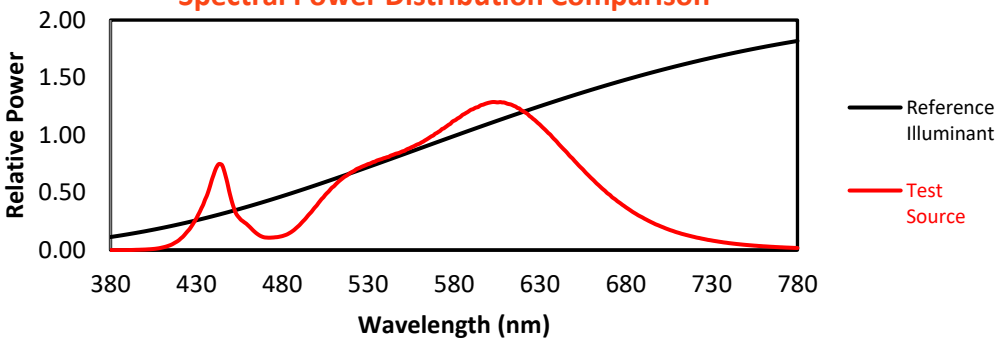
REPORT NUMBER: SP1-2408-195-9

TM-30-18

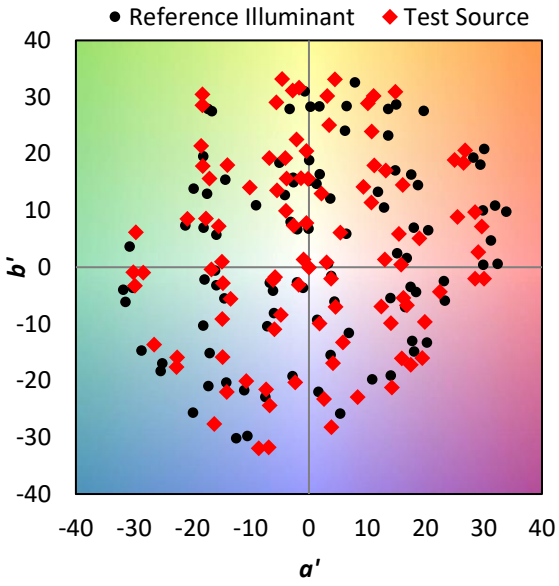
Summary

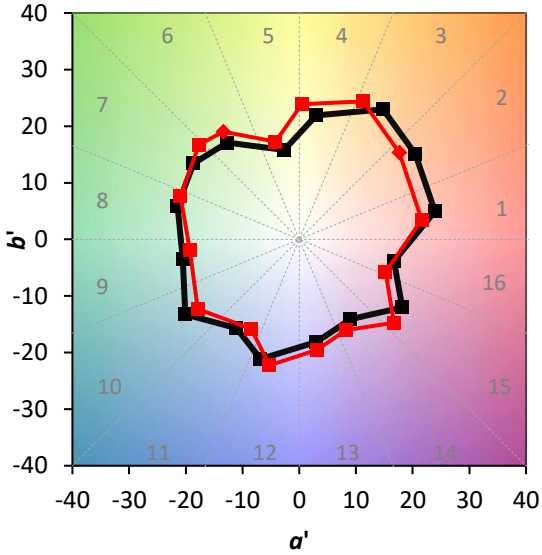
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

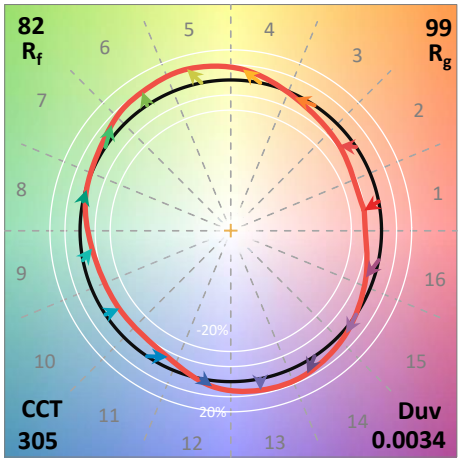
Spectral Power Distribution Comparison

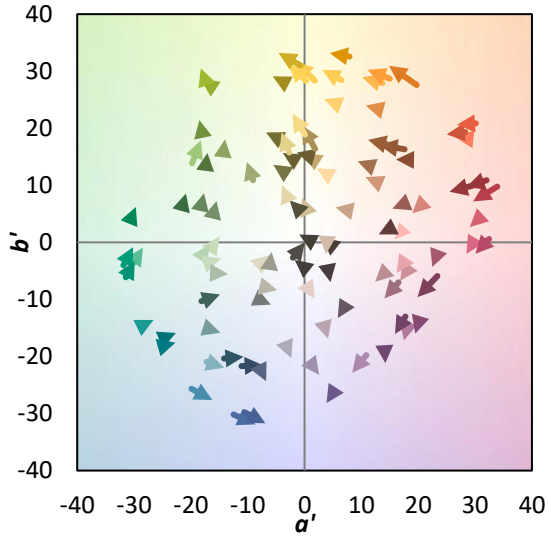


Color Vector Graphics







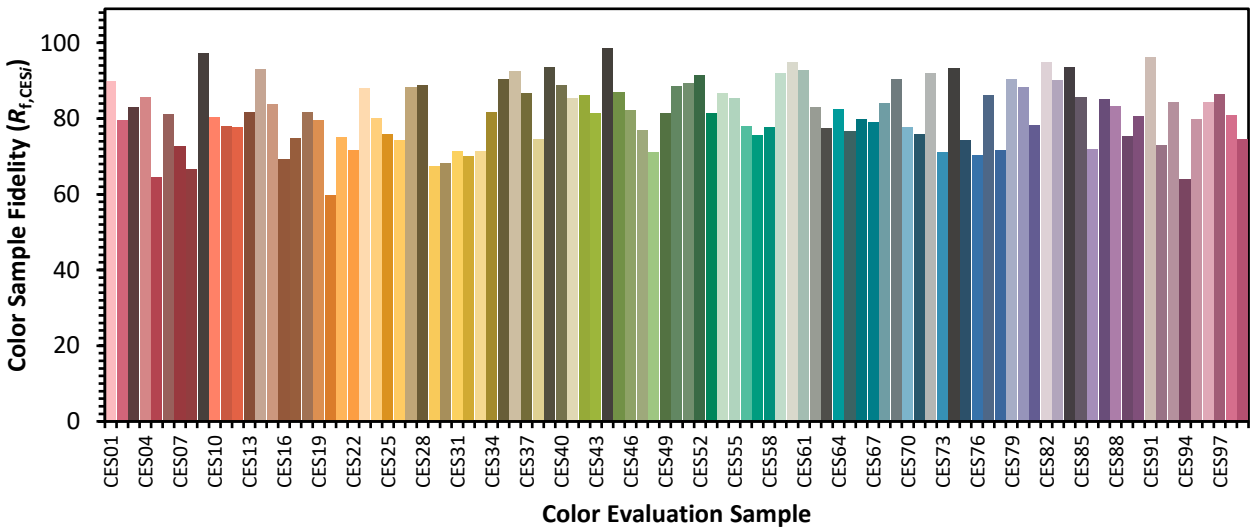


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

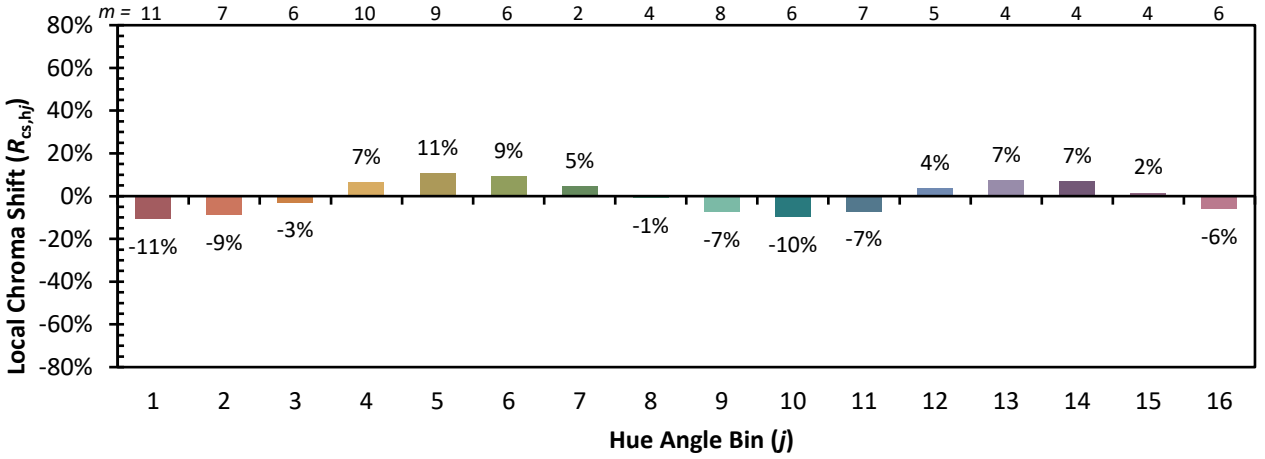
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
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 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	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	

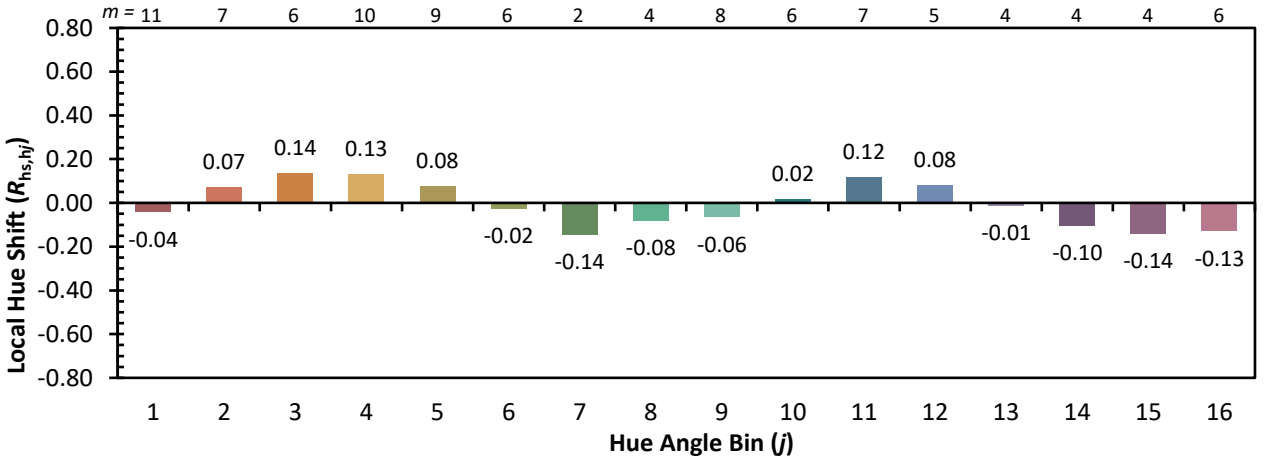


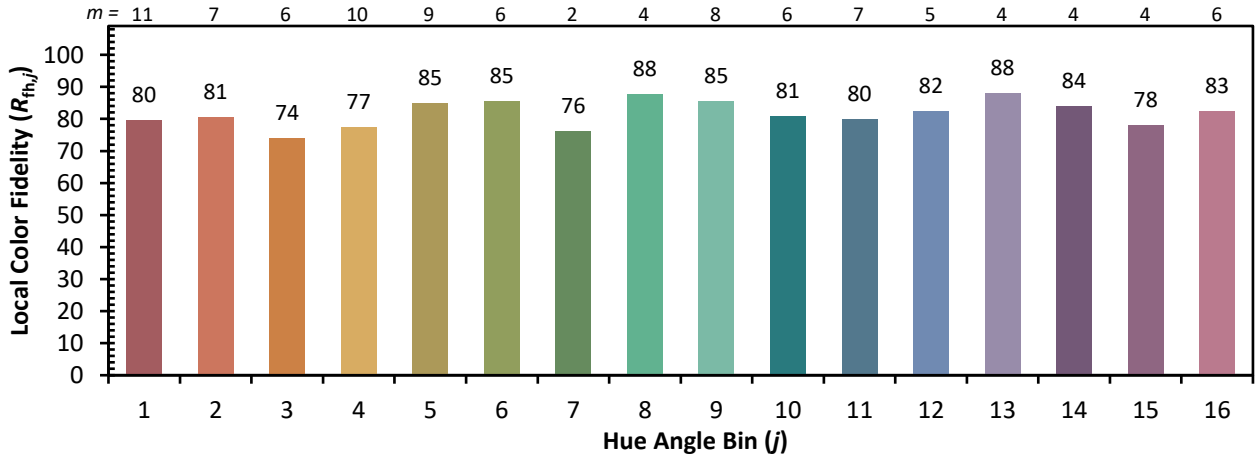
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



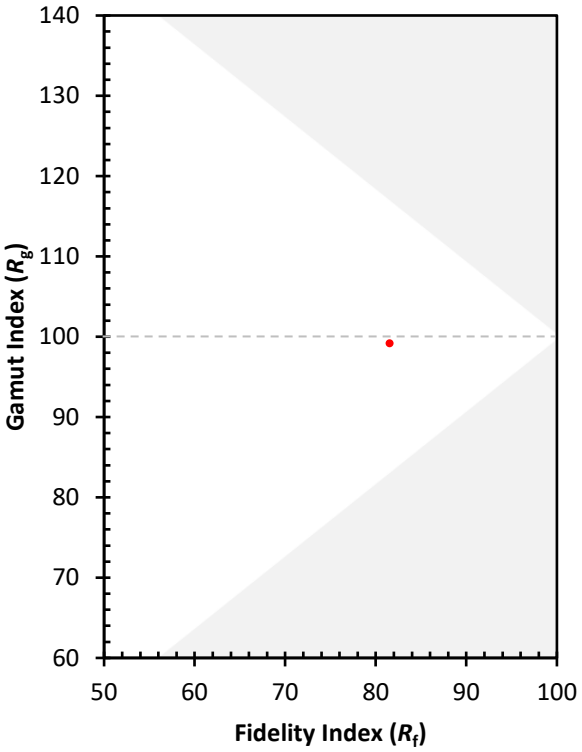


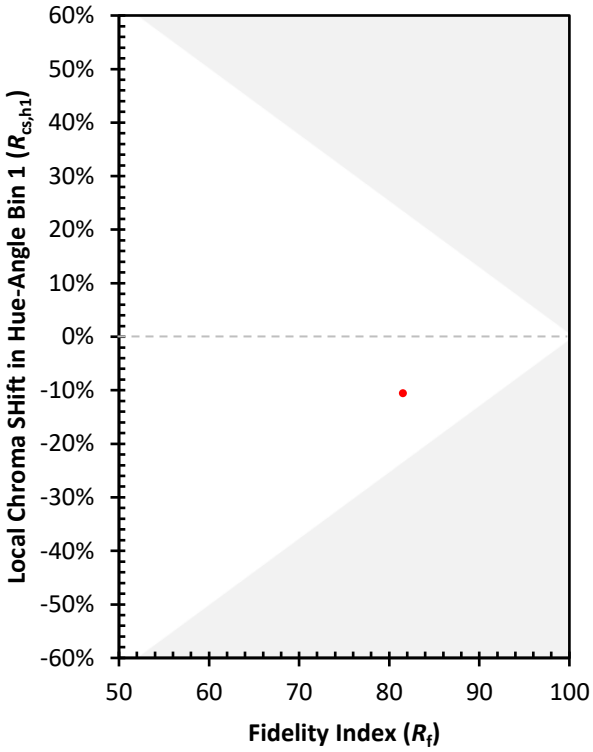


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)