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: P634522

Luminaire Tested: GWS-SA3B-830-U-SLL-W

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:	P634522
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3B-830-U-SLL-W
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7744.2 lumens
Efficiency:	N/A
Efficacy:	113.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

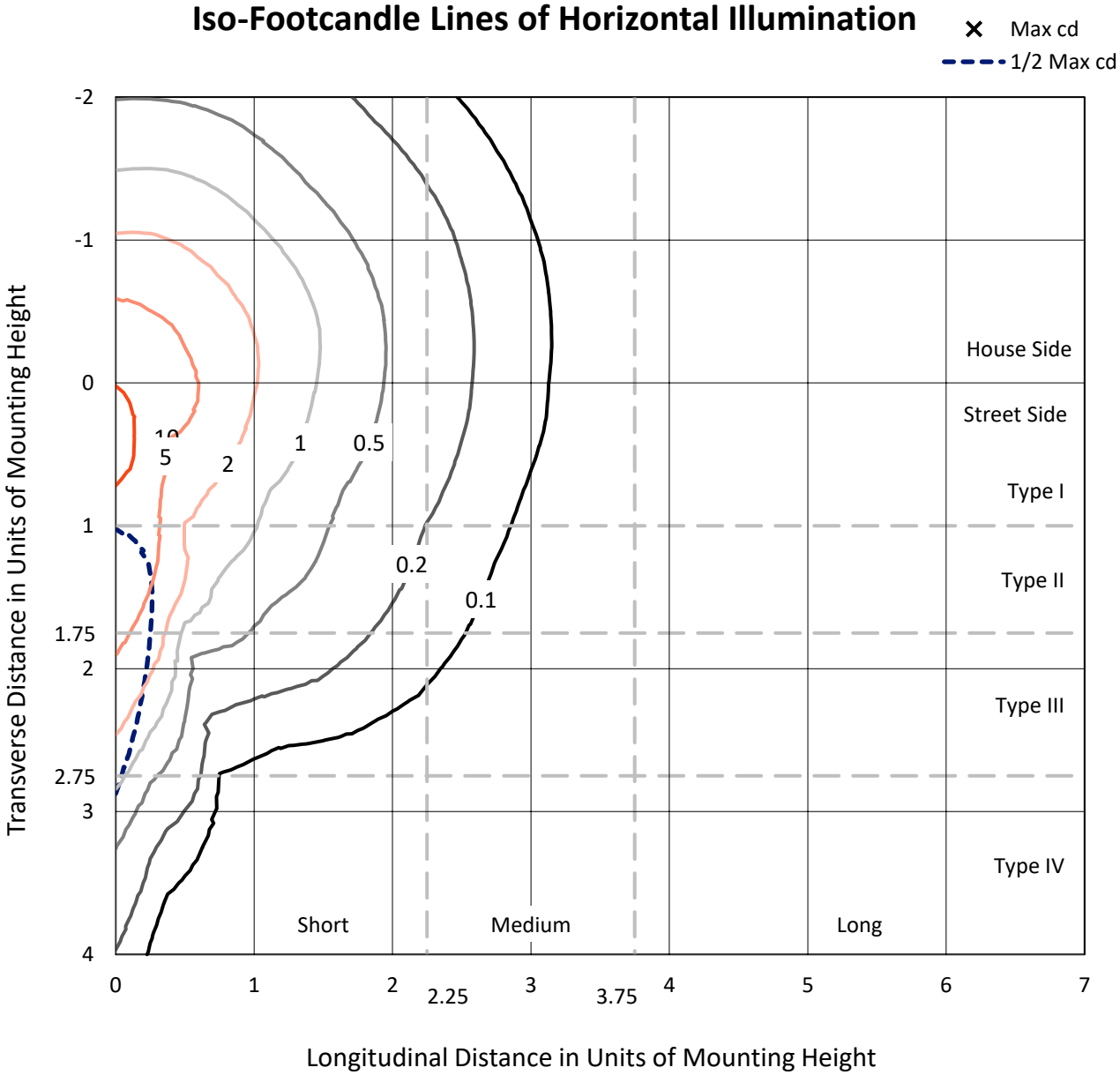
Input Watts (W):	68.3
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P634522
CATALOG NUMBER: GWS-SA3B-830-U-SLL-W

Iso-Footcandle Lines of Horizontal Illumination



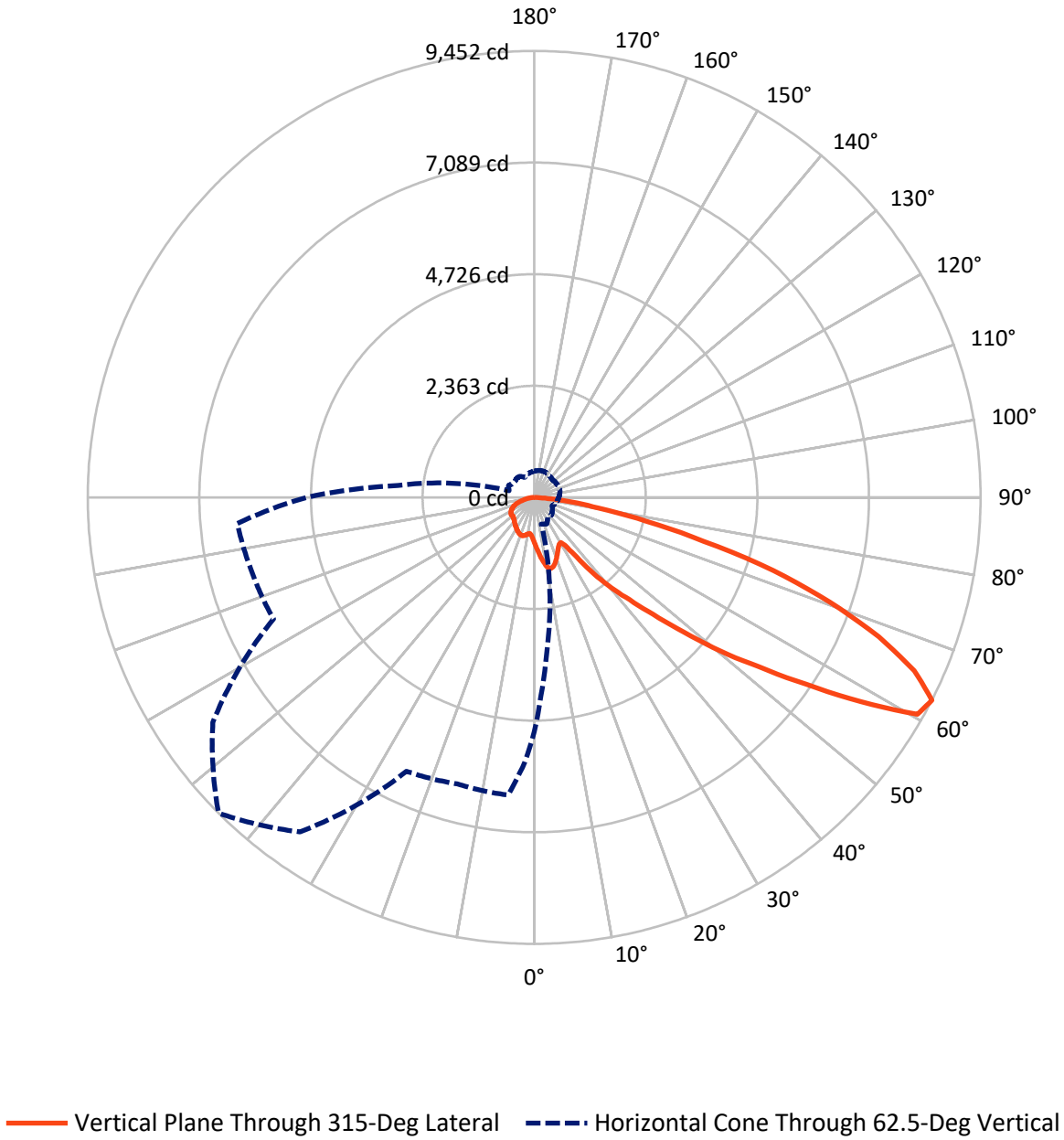
Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P634522
CATALOG NUMBER: GWS-SA3B-830-U-SLL-W

Luminous Intensity Polar Plot



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

Scaled Data Report

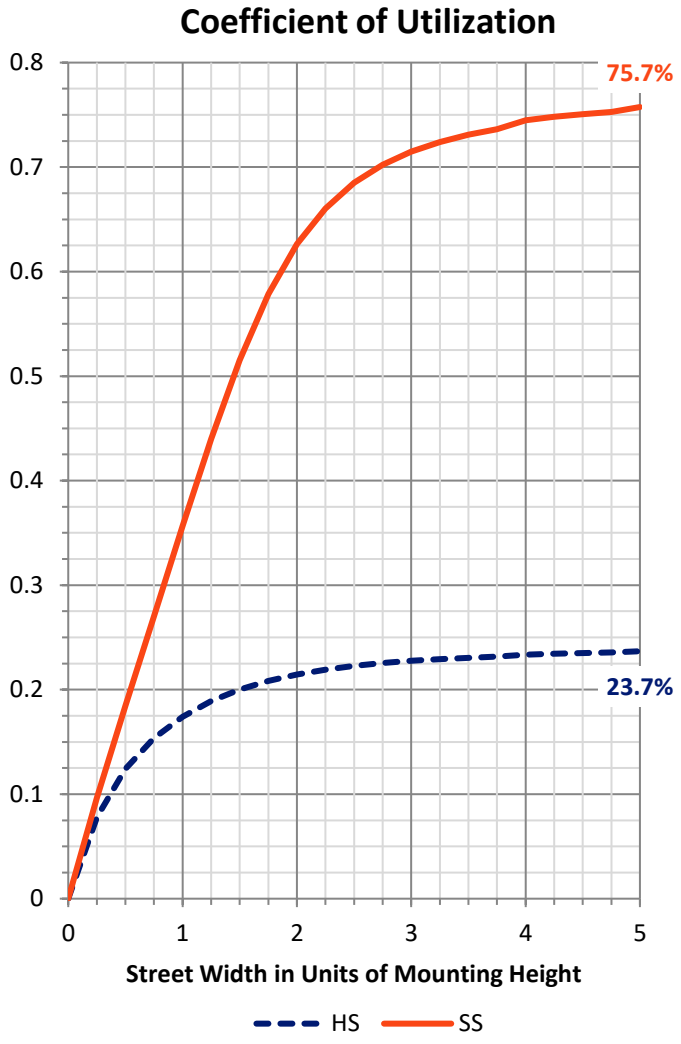
REPORT NUMBER: P634522
CATALOG NUMBER: GWS-SA3B-830-U-SLL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1851.6	0.0	1851.6
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	5892.6	0.0	5892.6
	% Fixture	76.1	0.0	76.1
Total	Lumens	7744.2	0.0	7744.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	1.2
10°-20°	309.1	4.0
20°-30°	486.7	6.3
30°-40°	667.1	8.6
40°-50°	1040.8	13.4
50°-60°	1794.6	23.2
60°-70°	2079.7	26.9
70°-80°	1097.8	14.2
80°-90°	173.4	2.2
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°	7744.2	100.0
0°-180°	7744.2	100.0



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

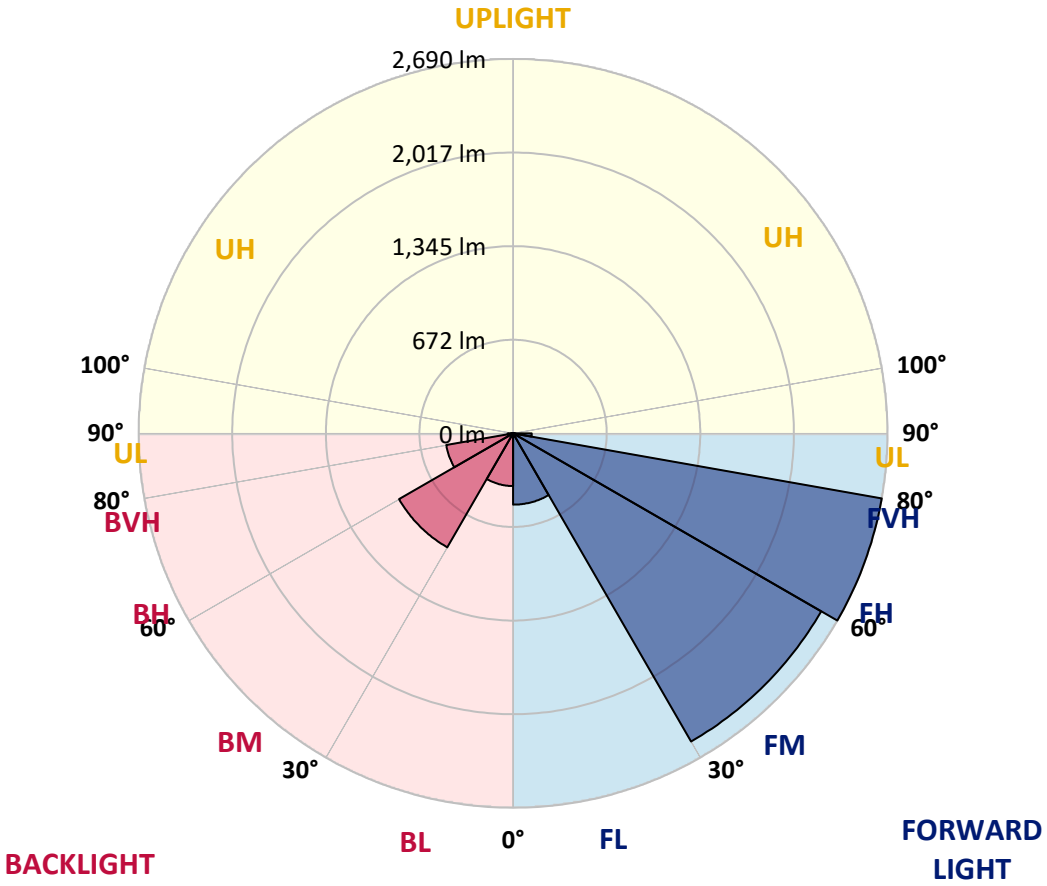
Scaled Data Report

REPORT NUMBER: P634522
CATALOG NUMBER: GWS-SA3B-830-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	512.2	6.6			
FM	(30°-60°)	2556.6	33.0			
FH	(60°-80°)	2689.9	34.7			G2/5000
FVH	(80°-90°)	133.8	1.7			G2/225
BL	(0°-30°)	378.7	4.9	B1/500		
BM	(30°-60°)	945.8	12.2	B1/1000		
BH	(60°-80°)	487.5	6.3	B1/500		G1/500
BVH	(80°-90°)	39.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Short



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

Scaled Data Report

REPORT NUMBER: P634522
CATALOG NUMBER: GWS-SA3B-830-U-SLL-W

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	965.5	965.5	965.5	965.5	965.5	965.5	965.5	965.5	965.5	965.5	965.5
2.5°	1049.1	1044.9	1039.0	1018.9	1006.4	992.2	977.4	960.2	940.7	927.0	913.4
5°	1137.9	1131.4	1117.2	1069.2	1036.0	999.9	969.7	935.3	901.6	878.5	855.4
7.5°	1223.2	1214.9	1193.0	1119.6	1065.6	1013.5	967.9	918.2	867.8	833.4	806.2
10°	1308.5	1291.3	1263.5	1167.5	1096.5	1036.0	983.9	922.9	856.0	809.2	780.1
12.5°	1373.7	1357.7	1327.5	1211.4	1127.3	1051.4	992.8	936.5	879.6	829.9	800.3
15°	1434.7	1414.0	1379.6	1252.2	1152.7	1050.8	975.0	925.9	917.6	905.1	866.6
17.5°	1478.5	1459.6	1424.0	1285.4	1166.9	1032.5	925.9	896.8	934.1	972.1	935.3
20°	1517.0	1495.1	1459.0	1308.5	1169.9	991.6	866.0	866.6	925.3	977.4	968.5
22.5°	1549.6	1525.3	1493.3	1334.6	1168.7	934.7	813.9	849.4	908.1	949.0	950.1
25°	1589.9	1569.7	1543.1	1373.1	1168.7	876.7	776.0	828.7	879.1	913.4	912.2
27.5°	1639.1	1625.4	1603.5	1431.7	1179.4	828.1	754.7	802.1	841.7	871.4	870.8
30°	1694.1	1681.7	1665.1	1493.9	1197.7	792.0	742.8	768.9	797.9	821.6	821.6
32.5°	1750.4	1745.7	1727.9	1543.7	1183.5	780.7	732.7	735.7	751.1	770.7	768.9
35°	1828.6	1823.9	1801.4	1582.2	1121.9	764.7	716.8	701.9	703.7	716.2	720.3
37.5°	1942.9	1935.8	1902.6	1627.2	1028.9	724.5	690.7	666.4	661.1	666.4	674.1
40°	2080.9	2070.3	2025.3	1688.2	921.7	670.0	649.8	629.7	620.8	622.6	631.5
42.5°	2253.9	2231.4	2166.8	1752.8	815.7	622.0	604.2	591.8	581.7	580.5	597.7
45°	2534.7	2473.1	2370.6	1810.2	726.2	596.5	563.3	554.4	546.2	550.9	571.0
47.5°	3025.2	2911.4	2711.8	1859.4	671.7	597.1	530.8	521.3	520.7	530.2	552.7
50°	3699.3	3535.2	3227.2	1892.6	643.3	604.2	511.2	495.8	507.1	516.5	537.9
52.5°	4344.9	4094.4	3727.7	1892.0	630.9	605.4	516.5	472.1	507.1	509.4	529.6
55°	4896.4	4442.7	3862.8	1697.7	613.1	600.6	537.3	453.7	500.5	509.4	525.4
57.5°	5334.8	4664.2	3852.7	1371.3	667.0	574.6	549.7	449.6	481.6	510.6	529.0
60°	5286.2	4562.9	3604.5	841.7	661.7	528.4	547.9	457.3	449.6	494.6	524.8
62.5°	*4963.4*	*4199.8*	*3177.4*	*584.1*	*621.4*	*501.7*	*518.9*	*470.9*	*420.0*	*471.5*	*504.7*
65°	4511.4	3731.3	2647.8	447.8	514.8	502.9	469.7	461.4	393.9	434.8	470.3
67.5°	3913.7	3150.2	2090.4	354.8	359.0	435.4	426.5	409.9	369.6	402.2	434.2
70°	2942.2	2298.9	1438.2	285.5	271.9	363.7	383.3	368.4	345.9	355.4	389.2
72.5°	2073.2	1501.0	787.8	226.3	209.7	279.6	332.9	330.5	305.7	312.8	345.9
75°	1540.7	1062.1	492.2	178.9	170.6	200.2	279.0	286.1	265.4	273.7	299.1
77.5°	1025.4	687.7	273.7	132.7	132.7	146.3	207.9	241.1	225.7	232.2	250.0
80°	565.7	350.1	136.8	87.1	89.4	100.7	151.6	173.6	174.2	190.1	194.9
82.5°	178.9	111.4	61.0	50.9	48.0	57.5	97.7	124.4	116.1	148.1	136.2
85°	40.9	26.1	11.3	11.3	12.4	19.0	37.3	66.3	84.7	101.9	74.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	26.1	38.5	34.4
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: P634522
CATALOG NUMBER: GWS-SA3B-830-U-SLL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	965.5	965.5	965.5	965.5	965.5	965.5	965.5	965.5	965.5	965.5	965.5
2.5°	905.1	893.3	889.7	879.6	878.5	869.0	865.4	865.4	869.6	869.6	873.7
5°	845.9	831.1	822.8	810.9	808.0	800.9	796.1	796.7	802.1	805.6	812.7
7.5°	793.8	783.7	777.8	772.4	771.2	770.1	764.7	764.1	765.9	771.2	776.6
10°	771.8	764.7	766.5	770.7	777.2	780.7	776.0	773.6	771.8	775.4	780.1
12.5°	793.2	786.1	789.6	796.7	805.6	809.2	807.4	806.8	808.6	822.2	832.3
15°	840.0	826.3	821.6	824.6	831.7	835.2	833.4	835.8	847.1	882.6	908.1
17.5°	898.0	864.8	845.9	840.6	843.5	846.5	846.5	852.4	871.9	924.1	956.1
20°	929.4	886.2	854.2	841.1	842.3	845.3	845.3	853.6	875.5	931.2	951.9
22.5°	921.1	881.4	842.3	828.1	828.7	831.1	831.1	838.2	857.7	906.9	916.4
25°	888.5	853.6	815.1	802.6	803.8	808.0	806.8	810.9	825.7	866.0	871.4
27.5°	849.4	818.6	780.7	771.2	776.6	784.9	777.8	778.4	792.0	825.7	826.3
30°	807.4	781.9	748.1	741.0	751.1	755.3	748.7	748.7	762.4	785.5	784.9
32.5°	761.8	745.8	721.5	713.8	725.0	731.6	723.3	724.5	735.1	750.5	744.6
35°	719.1	710.8	699.6	694.2	701.4	707.3	701.9	704.3	714.4	718.5	710.2
37.5°	678.2	677.1	678.2	678.2	680.0	681.8	678.2	684.2	693.1	687.7	678.2
40°	642.7	647.4	658.7	655.7	654.0	655.7	653.4	663.4	672.3	662.8	651.6
42.5°	613.1	622.0	639.2	639.2	635.6	636.8	635.6	648.0	654.6	641.5	629.1
45°	587.6	600.6	622.6	625.5	619.6	619.6	622.0	637.4	639.7	622.0	608.9
47.5°	569.8	585.8	610.7	616.1	607.2	606.6	613.1	629.7	629.7	608.9	594.1
50°	557.4	575.2	604.8	611.9	603.0	600.6	611.3	627.3	623.8	598.9	584.1
52.5°	549.1	567.5	604.2	614.3	608.4	606.0	616.6	627.9	619.0	592.4	577.0
55°	543.8	563.9	606.0	614.3	607.8	603.6	614.3	624.3	619.6	588.8	574.0
57.5°	546.7	566.9	603.6	607.8	600.1	592.9	605.4	619.6	617.8	590.0	575.2
60°	542.0	560.4	590.6	591.8	578.7	567.5	585.8	607.2	607.2	585.8	572.8
62.5°	*520.1*	*538.5*	*565.1*	*566.3*	*551.5*	*539.0*	*560.4*	*585.8*	*585.2*	*568.1*	*554.4*
65°	484.0	501.1	531.3	534.3	519.5	506.5	528.4	552.1	553.9	538.5	526.6
67.5°	444.3	459.7	482.2	494.0	481.6	468.0	488.1	510.6	510.0	491.7	479.2
70°	396.9	411.1	431.8	441.9	434.2	421.2	439.5	451.4	446.0	437.2	428.9
72.5°	350.1	363.7	383.3	383.3	375.0	362.5	367.9	389.2	395.7	389.2	383.8
75°	300.9	312.8	326.4	329.4	311.0	288.5	313.4	331.7	339.4	336.5	329.9
77.5°	250.6	259.5	279.6	274.3	239.9	228.1	248.2	275.4	280.8	279.0	270.1
80°	193.1	198.4	219.8	209.1	182.4	174.7	183.6	205.0	206.1	200.2	189.0
82.5°	129.7	136.8	151.1	130.3	129.7	122.6	115.5	117.9	128.5	127.4	119.7
85°	66.3	69.9	83.5	78.2	66.9	58.1	55.1	58.6	52.7	48.0	41.5
87.5°	27.8	30.2	41.5	23.1	7.1	0.0	0.0	3.6	5.3	7.7	8.3
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: P634522
CATALOG NUMBER: GWS-SA3B-830-U-SLL-W

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	965.5	965.5	965.5	965.5	965.5	965.5	965.5	965.5	965.5	965.5	965.5
2.5°	883.2	889.7	905.7	925.9	945.4	965.5	987.5	1001.1	1017.7	1039.0	1039.6
5°	821.6	836.4	859.5	890.3	922.3	959.0	1001.7	1037.2	1079.9	1113.6	1127.3
7.5°	783.7	805.0	834.0	873.1	915.2	960.8	1016.5	1076.3	1146.2	1191.2	1217.9
10°	787.2	819.8	848.8	882.0	919.9	969.1	1040.8	1120.1	1206.0	1265.3	1298.4
12.5°	850.6	885.0	879.6	877.9	903.3	963.2	1060.3	1164.6	1269.4	1328.7	1368.3
15°	930.6	943.6	893.3	855.4	870.8	941.8	1071.0	1204.3	1322.1	1394.4	1433.5
17.5°	971.5	945.4	884.4	827.5	823.4	909.3	1076.3	1244.5	1381.4	1453.6	1495.1
20°	952.5	914.6	863.1	809.2	779.5	864.8	1073.4	1276.5	1435.3	1515.8	1549.6
22.5°	911.6	878.5	838.2	786.6	744.0	816.3	1065.6	1308.5	1483.3	1564.4	1594.0
25°	867.2	842.3	809.2	764.1	723.9	773.6	1060.3	1351.2	1538.4	1615.9	1634.9
27.5°	822.8	804.4	777.2	742.2	719.1	744.0	1062.1	1406.8	1609.4	1682.9	1675.2
30°	778.9	763.0	744.0	728.6	718.5	736.9	1057.4	1466.1	1687.6	1755.7	1710.1
32.5°	737.5	722.7	710.8	713.2	719.1	739.9	1033.1	1520.0	1759.3	1817.4	1748.0
35°	701.9	686.5	686.5	694.8	716.8	729.8	970.3	1562.0	1838.7	1896.7	1801.9
37.5°	668.8	655.1	664.0	677.7	698.4	702.5	889.7	1602.9	1954.2	2008.7	1885.5
40°	639.7	626.1	642.1	659.3	670.0	668.2	808.0	1659.8	2090.4	2146.7	1996.2
42.5°	616.6	604.2	618.4	640.3	642.1	643.9	748.1	1714.3	2248.6	2320.3	2187.0
45°	597.7	588.8	595.9	617.8	617.8	645.1	710.8	1759.9	2486.7	2613.5	2537.1
47.5°	582.9	577.5	581.1	588.2	600.1	666.4	687.1	1794.8	2920.3	3169.1	3092.1
50°	574.6	569.3	574.0	559.2	594.7	677.1	679.4	1821.5	3491.9	3881.7	3786.3
52.5°	567.5	565.7	568.7	534.3	606.6	670.0	673.5	1786.0	3875.2	4583.1	4677.2
55°	565.1	566.3	552.1	515.9	620.8	646.3	655.7	1531.8	3979.5	5187.9	5772.5
57.5°	566.3	562.7	526.6	517.7	621.4	598.9	681.2	1092.9	3827.8	5450.9	6844.1
60°	562.1	544.4	495.8	533.7	594.1	543.2	662.8	712.6	3428.0	5248.9	6906.3
62.5°	*543.8*	*517.7*	*469.1*	*542.6*	*545.6*	*510.0*	*601.8*	*549.1*	*2894.8*	*4816.5*	*6306.8*
65°	517.1	482.2	446.6	524.2	496.4	494.6	452.6	440.1	2328.0	4301.7	5738.2
67.5°	473.3	438.3	430.1	482.2	446.6	438.3	363.7	364.9	1857.6	3753.2	5166.5
70°	423.5	388.6	395.1	436.0	397.5	364.3	294.4	303.9	1409.2	3127.1	4395.9
72.5°	391.0	344.2	344.8	383.8	349.5	295.0	242.3	250.6	894.5	2357.0	3494.9
75°	329.9	303.3	290.3	311.0	296.8	229.8	203.8	202.0	530.2	1689.4	2617.0
77.5°	275.4	254.7	248.2	256.5	221.5	170.0	164.1	161.1	300.3	1082.2	1714.9
80°	199.6	194.3	193.7	197.8	170.6	125.0	125.0	125.6	161.7	587.6	966.7
82.5°	126.8	138.6	122.6	136.2	116.1	88.9	82.9	94.2	93.0	250.6	407.5
85°	52.7	72.3	67.5	71.7	55.1	48.6	52.1	56.3	53.9	96.6	158.8
87.5°	10.1	11.8	13.0	12.4	12.4	15.4	17.2	20.7	20.7	27.8	48.0
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: P634522
CATALOG NUMBER: GWS-SA3B-830-U-SLL-W

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	965.5	965.5	965.5	*965.5*	965.5	965.5	965.5	965.5	965.5	965.5
2.5°	1062.1	1079.3	1075.7	*1083.4*	1073.4	1076.9	1056.8	1051.4	1047.9	1049.1
5°	1171.1	1206.0	1212.6	*1225.6*	1216.7	1216.7	1181.2	1154.5	1145.0	1137.9
7.5°	1281.9	1332.2	1365.4	*1368.9*	1364.2	1354.7	1303.2	1255.2	1238.0	1223.2
10°	1380.2	1440.6	1477.9	*1495.7*	1486.8	1472.0	1408.0	1342.3	1321.5	1308.5
12.5°	1455.4	1508.7	1533.6	*1545.5*	1544.3	1538.9	1486.8	1415.7	1393.8	1373.7
15°	1504.0	1530.6	1521.2	*1520.6*	1528.9	1550.2	1534.2	1478.5	1453.1	1434.7
17.5°	1535.4	1509.9	1467.9	*1448.3*	1466.1	1516.4	1553.2	1521.8	1498.7	1478.5
20°	1546.6	1456.0	1395.0	*1358.9*	1379.6	1452.5	1543.1	1553.2	1533.6	1517.0
22.5°	1533.6	1390.3	1307.3	*1264.7*	1284.8	1371.9	1513.5	1578.6	1565.6	1549.6
25°	1501.6	1321.5	1222.0	*1183.5*	1205.4	1294.3	1460.8	1602.3	1602.9	1589.9
27.5°	1461.9	1258.2	1162.2	*1126.1*	1147.4	1230.3	1409.2	1623.1	1643.8	1639.1
30°	1421.7	1220.3	1133.8	*1108.3*	1124.3	1197.7	1356.5	1644.4	1685.8	1694.1
32.5°	1403.3	1238.6	1200.7	*1212.0*	1191.2	1216.7	1337.5	1674.6	1736.8	1750.4
35°	1427.6	1401.5	1497.5	*1541.9*	1468.5	1371.9	1361.8	1720.2	1808.5	1828.6
37.5°	1545.5	1750.4	1893.8	*2050.1*	1922.8	1710.1	1482.1	1797.8	1910.9	1942.9
40°	1801.9	2054.9	2313.7	*2515.7*	2323.2	2037.1	1710.7	1913.3	2051.9	2080.9
42.5°	2043.6	2340.4	2697.0	*2958.2*	2708.3	2304.3	1957.1	2107.6	2237.9	2253.9
45°	2280.6	2620.6	3160.8	*3523.9*	3184.5	2558.4	2208.9	2435.8	2534.1	2534.7
47.5°	2558.4	2936.3	3742.5	*4259.6*	3816.6	2839.8	2445.2	2955.3	3092.1	3025.2
50°	2890.7	3250.3	4341.4	*5115.6*	4587.2	3185.7	2745.6	3588.5	3775.1	3699.3
52.5°	3335.6	3596.2	5001.3	*5950.2*	5427.2	3579.6	3181.0	4424.9	4486.5	4344.9
55°	3961.7	4095.6	5848.3	*6980.9*	6364.9	4064.8	3817.7	5474.6	5302.2	4896.4
57.5°	5387.5	4885.8	6935.9	*8156.8*	7425.8	4946.2	5213.3	6632.0	6018.9	5334.8
60°	6580.5	5845.4	7942.3	*9323.7*	8335.1	5917.6	6523.6	6833.4	5992.3	5286.2
62.5°	*6178.3*	*6090.0*	*8305.4*	*9452.2*	*8645.4*	*6395.7*	*6280.2*	*6325.8*	*5601.3*	*4963.4*
65°	5420.7	5617.9	7981.4	*8842.7*	8301.3	5967.4	5680.7	5856.6	5154.1	4511.4
67.5°	4973.4	5118.6	7405.1	*7867.1*	7675.8	5504.2	5214.5	5087.2	4459.9	3913.7
70°	4516.1	4636.4	6595.9	*6642.7*	6700.1	4734.1	4263.8	3884.7	3324.3	2942.2
72.5°	3902.4	3909.0	5572.9	*5301.6*	5410.6	3704.6	3432.1	2904.3	2419.8	2073.2
75°	3274.0	3095.1	4411.3	*3705.8*	3924.4	2881.8	2849.8	2188.8	1825.1	1540.7
77.5°	2496.2	2287.1	3222.4	*2437.0*	2756.2	1919.2	2142.6	1484.4	1284.2	1025.4
80°	1675.8	1545.5	1780.6	*1375.5*	1803.1	1322.7	1397.4	841.1	729.2	565.7
82.5°	883.8	754.7	1100.6	*815.7*	1087.6	726.8	524.2	260.0	221.5	178.9
85°	342.4	396.3	539.6	*290.3*	421.8	259.5	151.6	64.6	53.9	40.9
87.5°	66.3	102.5	56.3	*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

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.

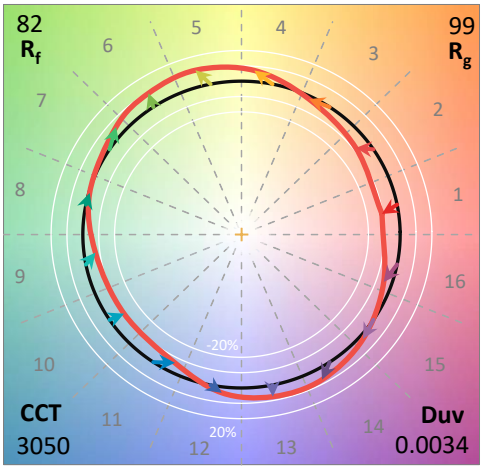
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

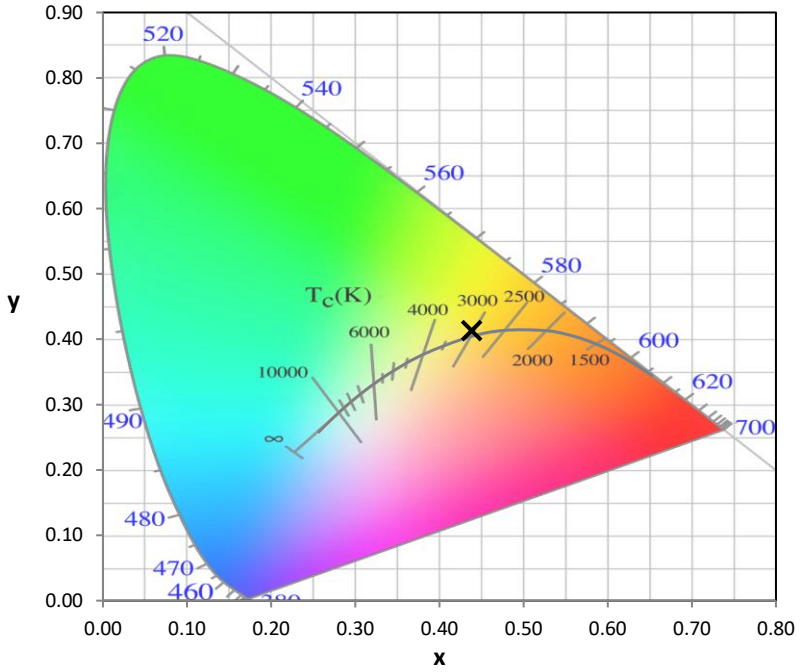
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

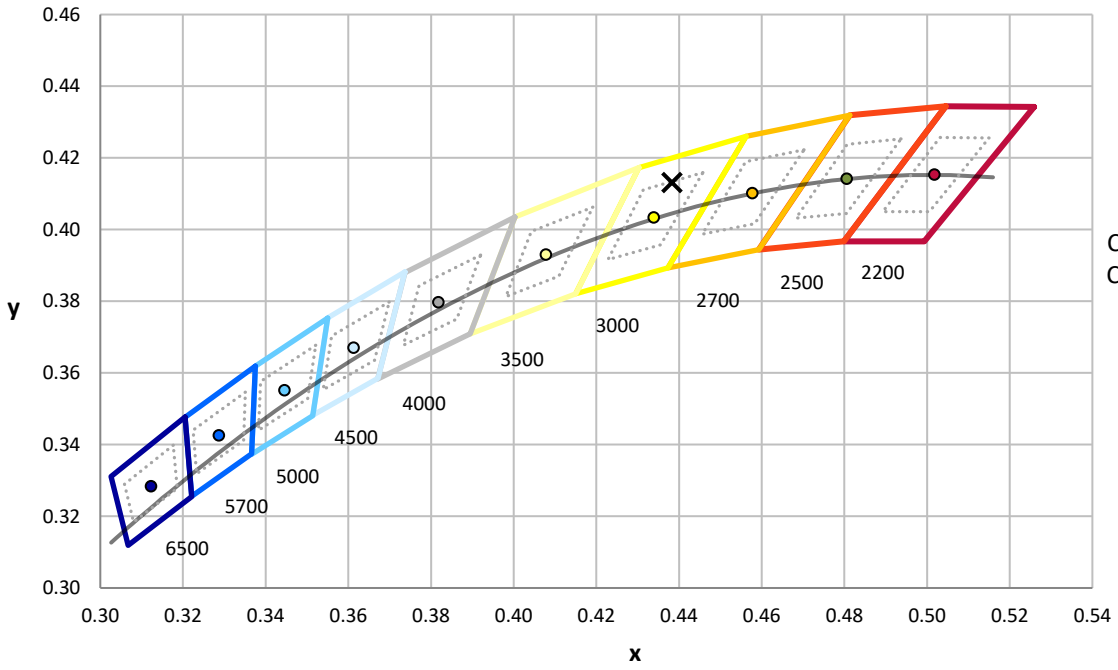
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

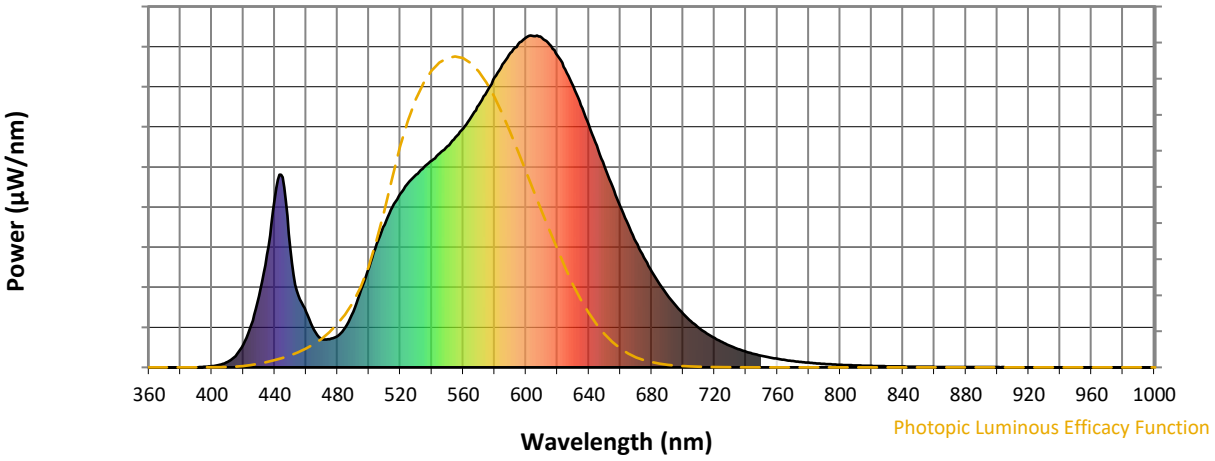


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

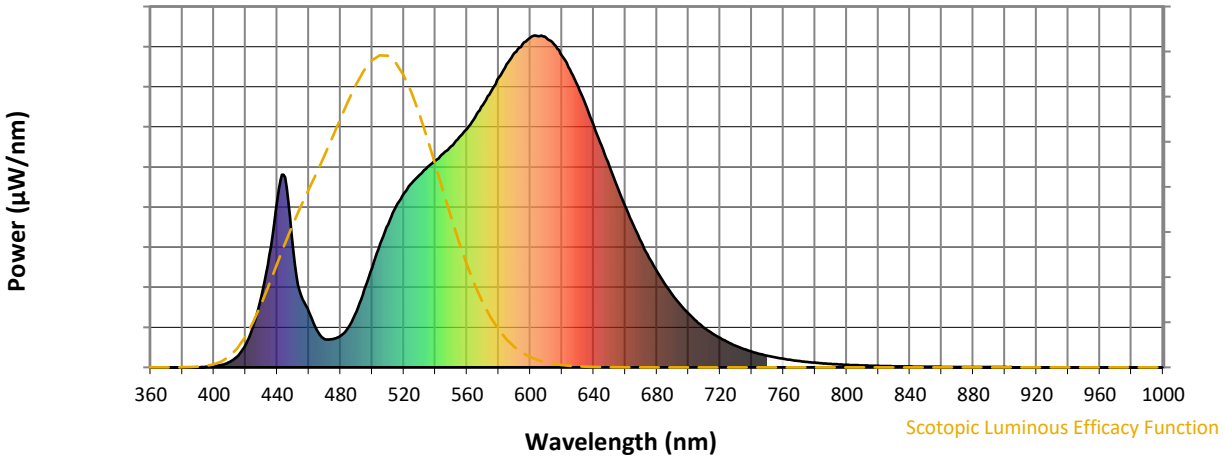


Photopic Lumens: NR

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

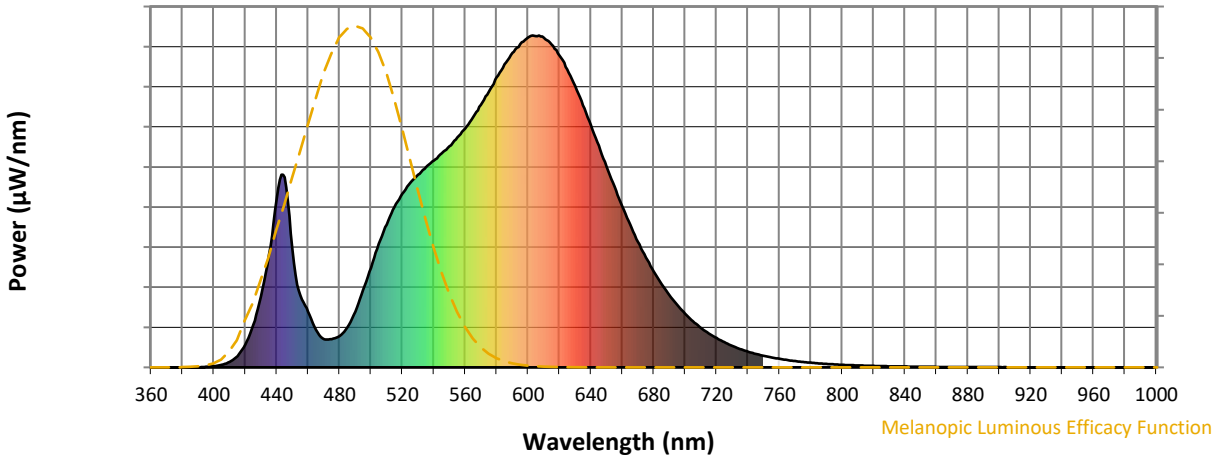


Scotopic Lumens: NR **S/P: 1.27**

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			

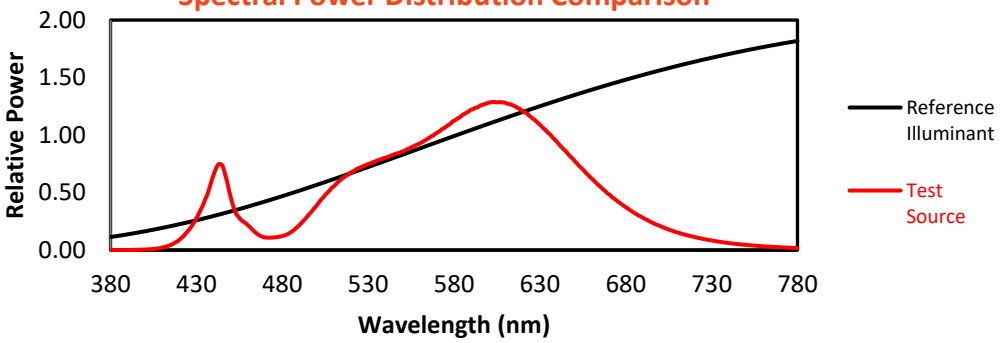
REPORT NUMBER: SP1-2408-195-9

TM-30-18

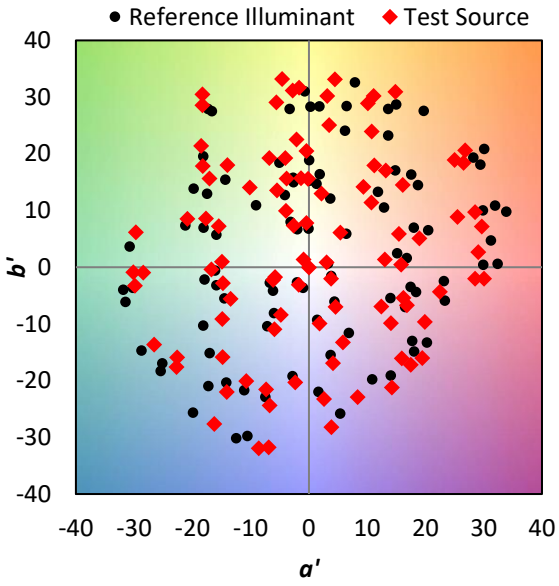
Summary

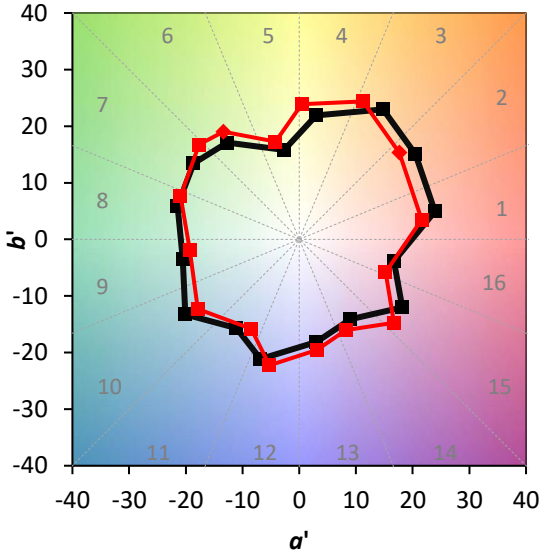
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

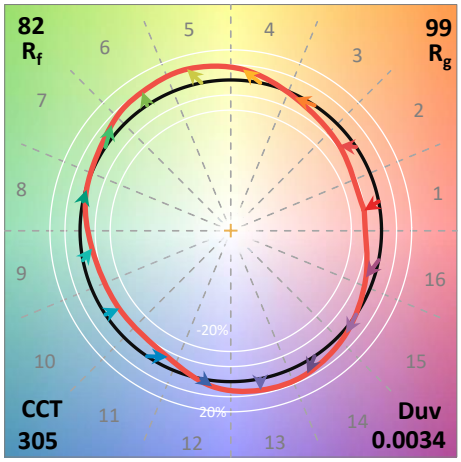
Spectral Power Distribution Comparison

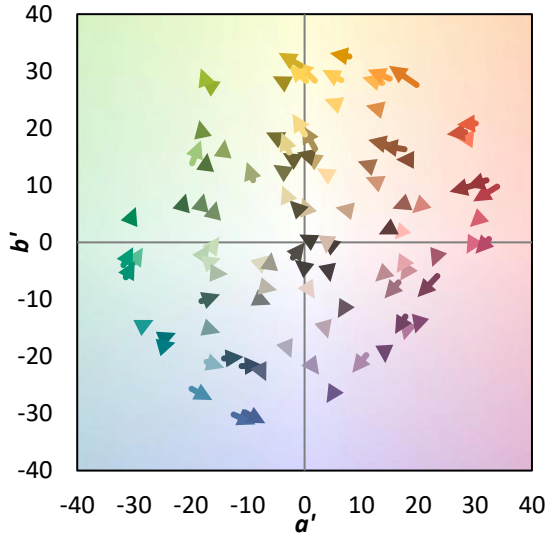


Color Vector Graphics







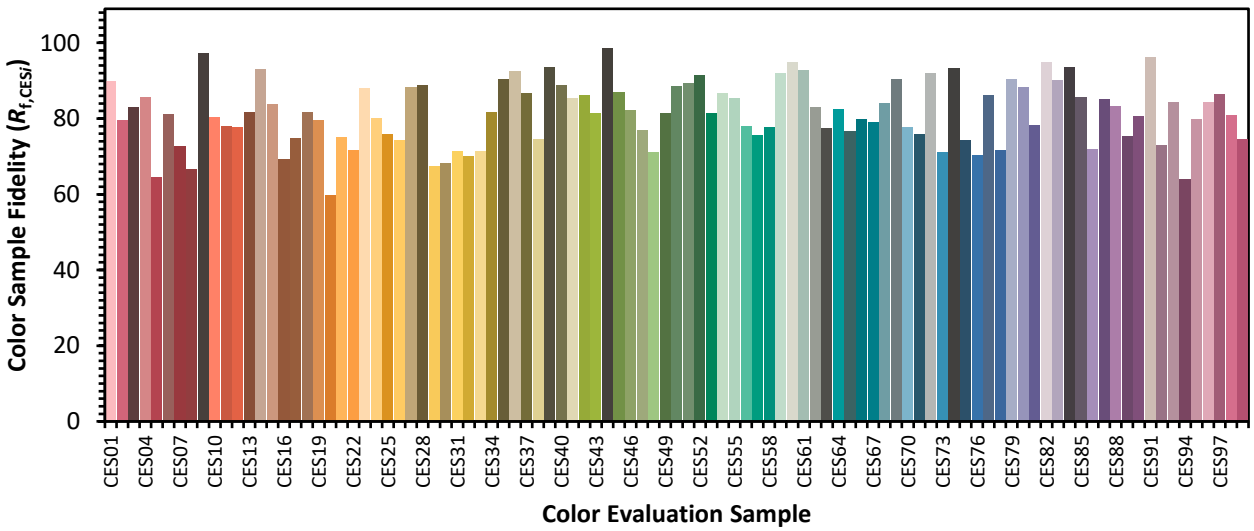


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

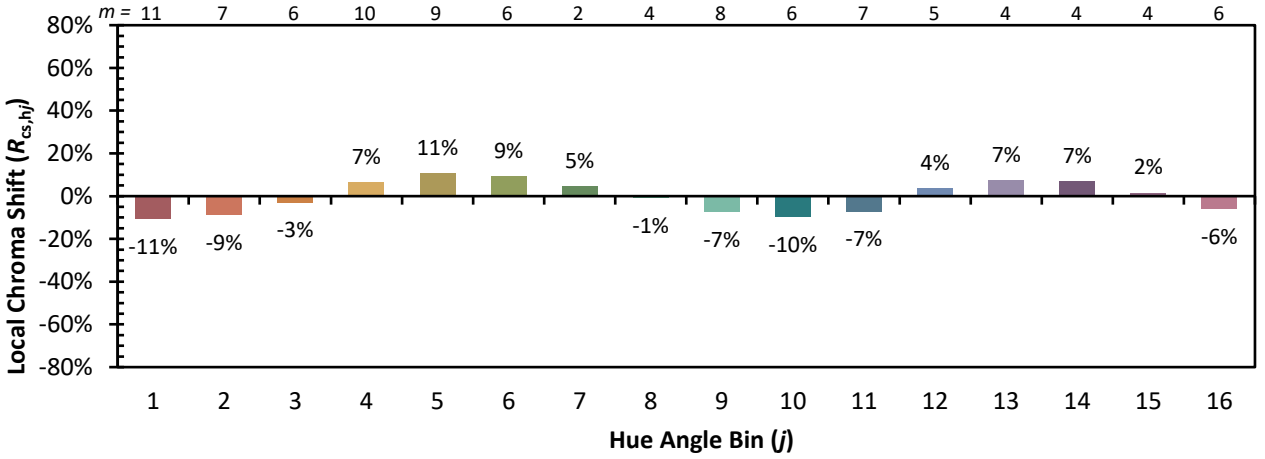
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	

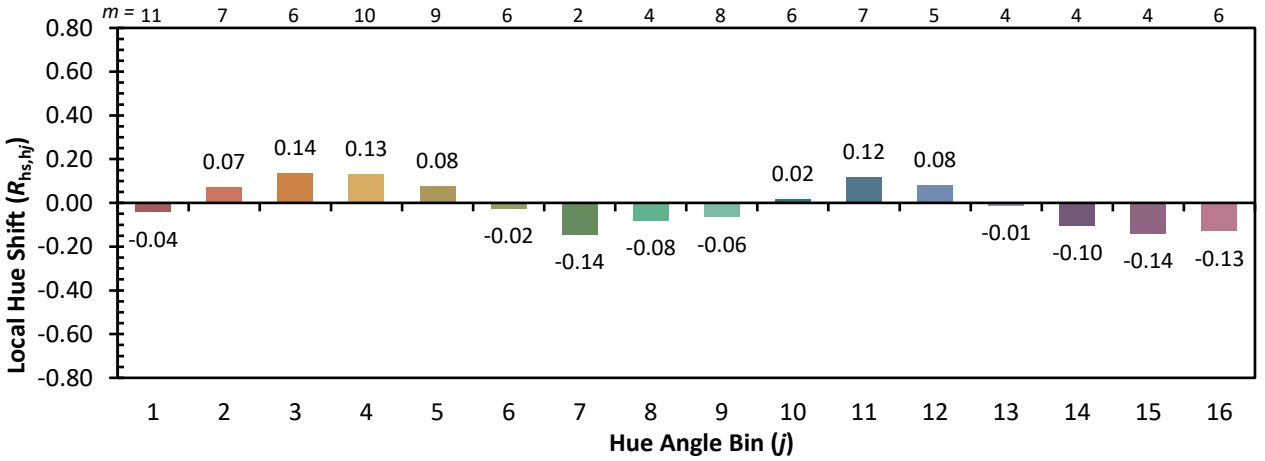


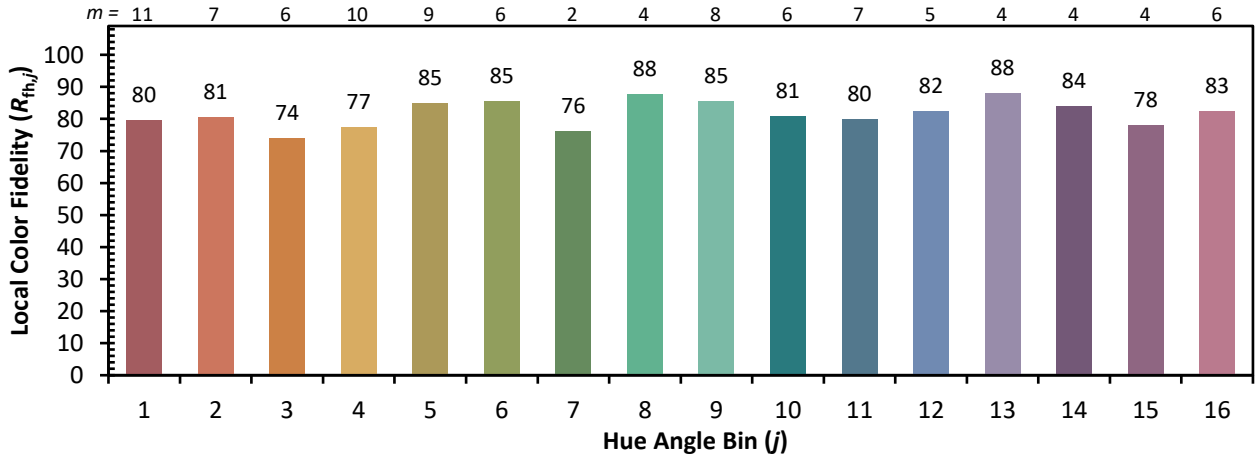
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



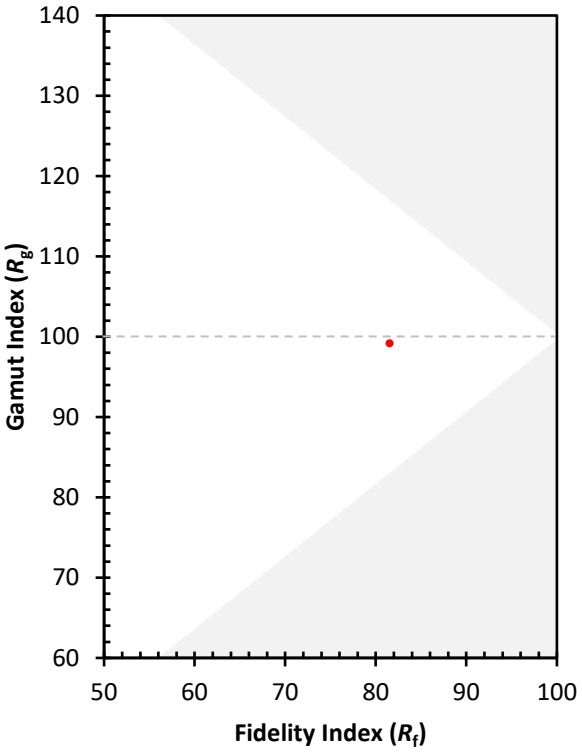


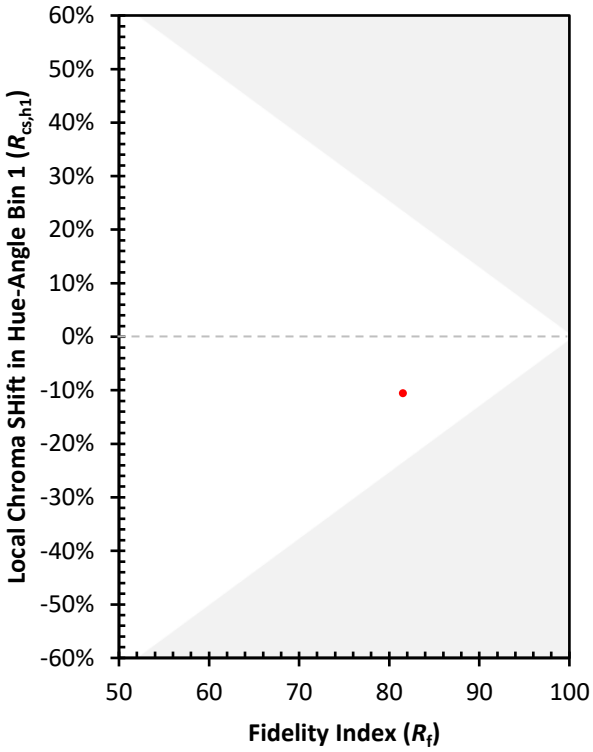


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)