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: P632032

Luminaire Tested: GWS-SA2B-830-U-RW-W-GRSWH

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:	P632032
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2B-830-U-RW-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4832.8 lumens
Efficiency:	N/A
Efficacy:	104.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B2 - U0 - G0

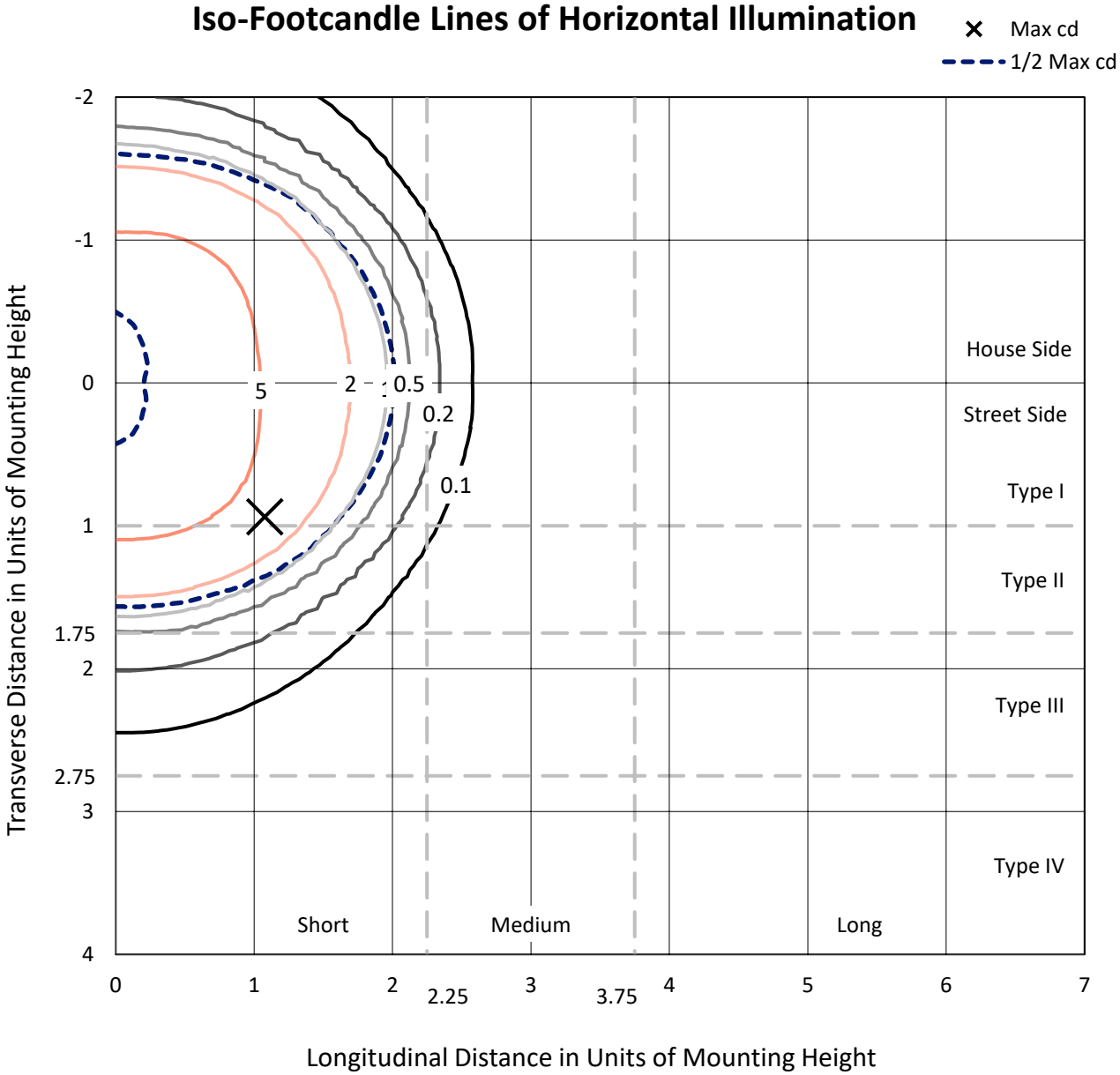
Input Watts (W):	46.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P632032
CATALOG NUMBER: GWS-SA2B-830-U-RW-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



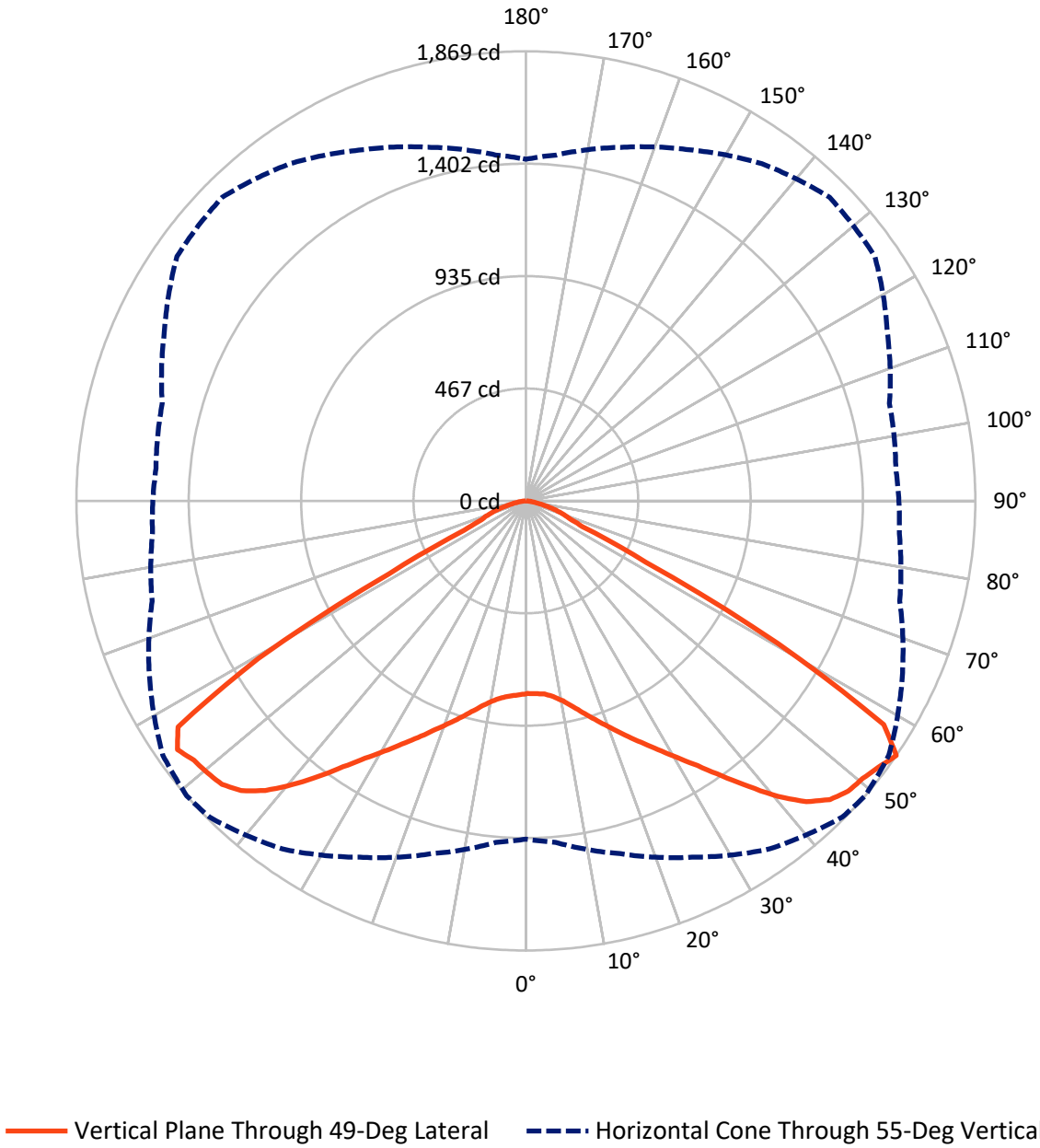
Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
Type V - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P632032
CATALOG NUMBER: GWS-SA2B-830-U-RW-W-GRSWH

Luminous Intensity Polar Plot



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

Scaled Data Report

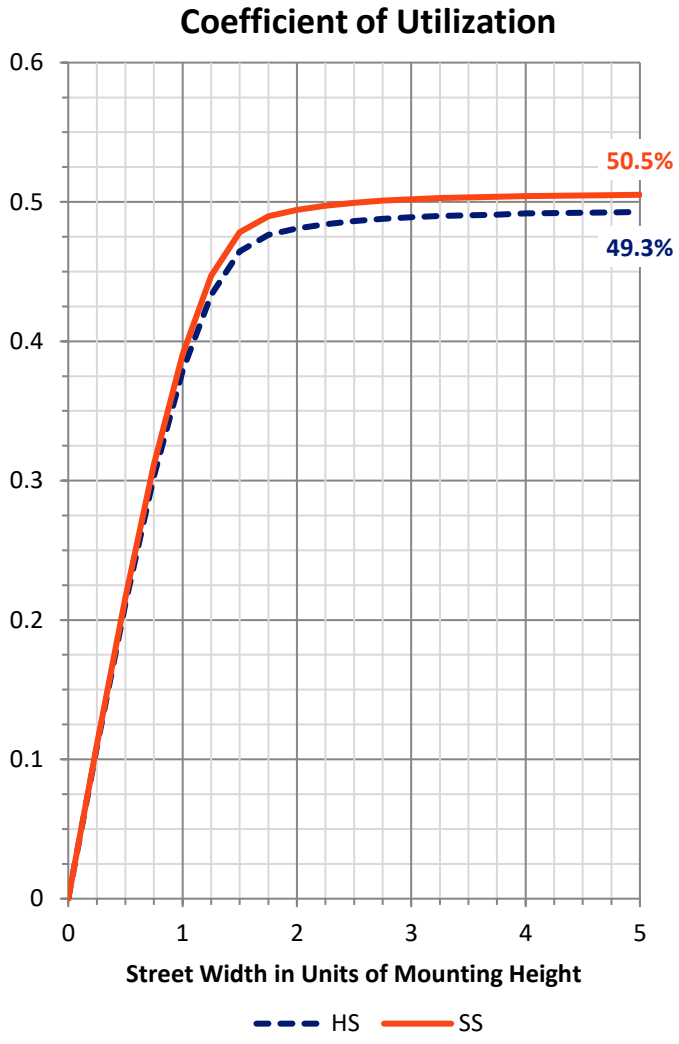
REPORT NUMBER: P632032
CATALOG NUMBER: GWS-SA2B-830-U-RW-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2392.7	0.0	2392.7
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	2440.1	0.0	2440.1
	% Fixture	50.5	0.0	50.5
Total	Lumens	4832.8	0.0	4832.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	1.6
10°-20°	257.6	5.3
20°-30°	490.7	10.2
30°-40°	831.8	17.2
40°-50°	1251.7	25.9
50°-60°	1370.1	28.4
60°-70°	433.2	9.0
70°-80°	104.0	2.2
80°-90°	15.6	0.3
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°	4832.8	100.0
0°-180°	4832.8	100.0



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

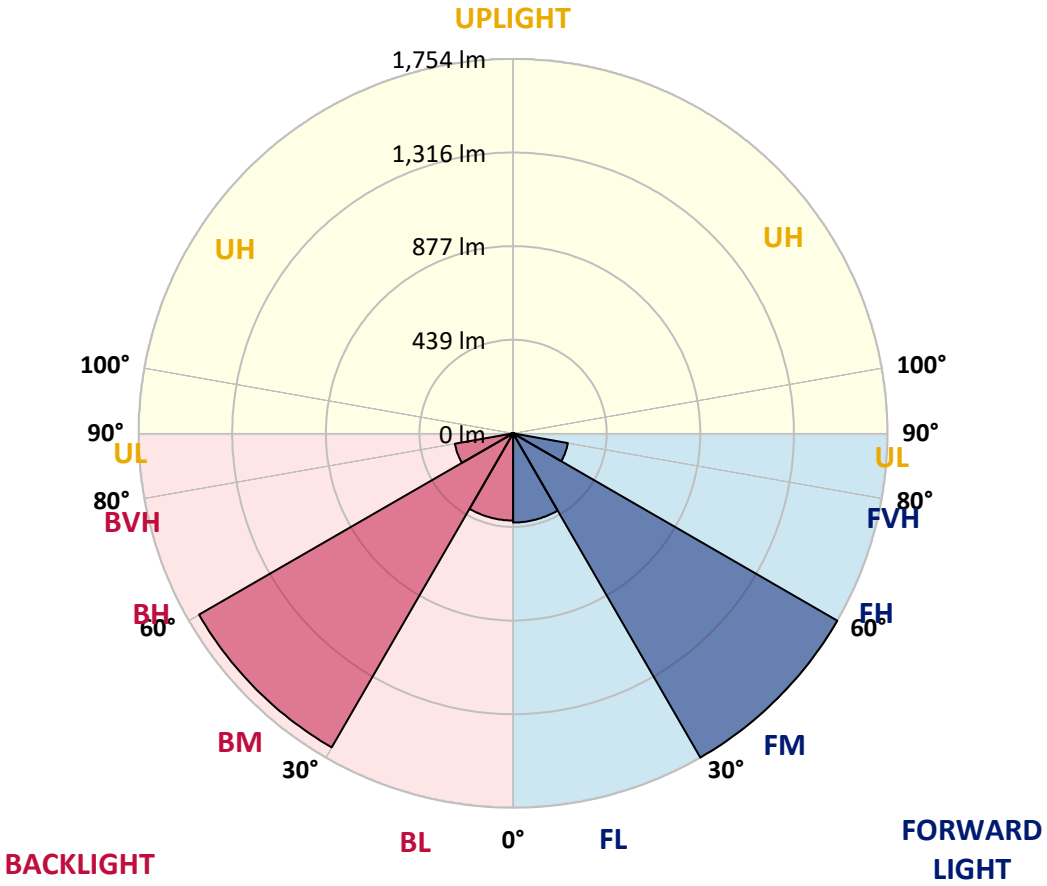
Scaled Data Report

REPORT NUMBER: P632032
CATALOG NUMBER: GWS-SA2B-830-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	417.8	8.6			
FM	(30°-60°)	1754.4	36.3			
FH	(60°-80°)	260.6	5.4			G0/660
FVH	(80°-90°)	7.2	0.1			G0/10
BL	(0°-30°)	408.5	8.5	B1/500		
BM	(30°-60°)	1699.2	35.2	B2/2500		
BH	(60°-80°)	276.6	5.7	B1/500		G0/660
BVH	(80°-90°)	8.4	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
Type V Short



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

Scaled Data Report

REPORT NUMBER: P632032
CATALOG NUMBER: GWS-SA2B-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	800.6	800.6	800.6	800.6	800.6	800.6	*800.6*	800.6	800.6	800.6	800.6
2.5°	788.8	789.6	791.2	793.9	796.7	800.6	*802.2*	804.1	803.7	806.1	806.1
5°	784.9	786.0	788.4	792.3	797.0	804.5	*806.5*	811.2	815.9	821.8	823.8
7.5°	789.6	791.2	793.9	800.2	807.3	817.1	*821.0*	828.9	837.9	848.5	852.9
10°	798.6	800.6	805.3	815.5	826.9	841.8	*845.4*	855.2	869.8	884.3	892.9
12.5°	808.8	812.0	820.6	836.7	853.6	873.3	*878.8*	891.0	906.7	925.6	937.4
15°	820.6	823.4	836.7	859.5	885.9	911.8	*918.1*	929.9	947.6	966.0	982.6
17.5°	845.4	850.1	865.8	892.2	922.8	953.5	*960.5*	973.9	988.1	1002.6	1018.3
20°	879.2	883.1	903.2	935.8	971.9	999.8	*1006.9*	1018.7	1025.4	1032.9	1046.2
22.5°	913.0	918.5	941.3	979.8	1022.2	1052.5	*1058.0*	1069.0	1064.3	1061.9	1070.6
25°	955.0	962.5	984.9	1027.0	1070.2	1107.5	*1111.9*	1121.3	1113.4	1101.2	1100.9
27.5°	1007.3	1014.0	1037.2	1080.4	1123.3	1162.2	*1170.4*	1183.0	1165.7	1150.8	1140.2
30°	1069.4	1073.7	1099.3	1145.3	1189.3	1226.2	*1236.8*	1249.4	1236.4	1211.7	1201.1
32.5°	1141.7	1147.6	1177.1	1225.4	1264.7	1301.7	*1312.3*	1328.0	1313.9	1286.0	1272.6
35°	1228.6	1234.5	1265.5	1318.2	1358.3	1396.4	*1403.9*	1416.8	1399.2	1366.9	1356.3
37.5°	1322.9	1330.4	1369.7	1419.6	1461.6	1506.1	*1506.4*	1510.4	1485.2	1445.1	1433.3
40°	1429.0	1438.8	1478.1	1530.0	1580.7	1616.9	*1616.5*	1605.5	1563.0	1500.9	1482.9
42.5°	1534.0	1541.8	1581.5	1635.0	1685.7	1719.9	*1709.6*	1682.9	1621.6	1537.1	1513.1
45°	1609.8	1615.7	1657.4	1717.5	1769.0	1790.2	*1771.7*	1739.5	1656.6	1559.9	1524.5
47.5°	1645.6	1653.4	1695.5	1755.2	1813.4	1825.6	*1803.6*	1773.3	1677.0	1581.1	1533.6
50°	1626.3	1636.5	1684.1	1739.5	1805.1	1830.3	*1814.6*	1784.3	1698.6	1602.0	1549.7
52.5°	1576.4	1586.2	1646.4	1713.6	1787.8	1837.8	*1837.4*	1812.6	1723.4	1607.8	1550.5
55°	*1405.8*	*1425.1*	*1518.6*	*1634.6*	*1766.6*	*1859.8*	*1869.2*	*1842.9*	*1727.3*	*1609.4*	*1558.7*
57.5°	915.0	948.8	1037.6	1188.5	1453.4	1691.6	*1755.2*	1761.5	1699.0	1602.7	1560.3
60°	382.0	409.1	479.5	579.7	798.6	1082.0	*1205.4*	1329.2	1478.5	1532.8	1545.7
62.5°	237.4	239.7	246.8	269.6	342.7	481.1	*560.4*	676.4	898.4	1087.5	1174.7
65°	214.2	215.4	216.9	215.4	218.9	235.8	*257.0*	297.5	387.9	481.8	593.5
67.5°	188.6	190.2	191.4	190.2	191.4	192.2	*194.5*	198.1	214.6	228.0	238.2
70°	152.5	154.9	156.8	156.0	160.7	160.7	*163.1*	165.9	174.1	183.9	191.0
72.5°	116.3	114.4	116.7	117.5	121.8	124.2	*127.7*	130.9	140.3	146.2	155.2
75°	75.5	73.5	77.0	79.0	84.9	88.0	*91.2*	94.3	101.0	104.9	113.6
77.5°	40.9	40.5	44.0	46.8	53.1	57.0	*59.3*	61.7	67.2	68.4	73.9
80°	23.6	23.6	25.9	27.9	31.8	36.2	*38.5*	40.5	44.4	45.6	47.9
82.5°	13.0	13.0	14.1	15.3	18.5	20.8	*22.8*	24.4	27.9	29.1	30.3
85°	6.3	5.9	6.7	7.5	8.6	9.8	*11.0*	11.8	14.5	15.3	16.9
87.5°	0.8	0.8	0.8	1.2	1.6	2.4	*2.8*	2.8	4.3	5.1	5.9
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: P632032
CATALOG NUMBER: GWS-SA2B-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6
2.5°	808.4	803.3	806.5	807.7	807.7	806.5	801.4	799.8	797.4	793.9	793.9
5°	826.5	822.6	823.4	821.4	816.7	810.8	801.4	796.7	792.7	788.4	788.0
7.5°	857.6	852.5	851.7	844.2	831.6	819.1	804.9	796.3	790.4	784.9	784.5
10°	898.1	893.3	887.4	872.5	854.0	835.6	816.3	804.5	795.9	788.0	787.6
12.5°	943.2	937.7	926.7	904.7	881.5	863.5	841.5	823.4	810.4	799.8	797.8
15°	992.4	984.5	965.7	939.7	916.9	897.7	874.1	848.1	828.5	811.6	809.6
17.5°	1030.1	1019.9	999.5	975.1	956.2	937.0	906.3	873.7	845.4	824.2	821.0
20°	1056.0	1047.8	1024.6	1006.5	995.5	978.6	942.9	905.9	874.1	847.4	845.8
22.5°	1080.0	1070.2	1047.4	1036.8	1036.8	1025.4	991.2	947.6	910.2	879.2	875.3
25°	1107.1	1096.5	1079.2	1078.1	1083.6	1078.4	1037.2	990.4	946.8	911.8	905.5
27.5°	1144.9	1133.1	1122.9	1129.9	1137.8	1132.3	1086.3	1032.1	986.1	950.7	945.2
30°	1205.0	1190.5	1181.0	1189.7	1205.0	1188.9	1139.0	1081.6	1035.2	996.3	993.6
32.5°	1275.0	1258.5	1248.6	1262.4	1276.1	1251.0	1201.5	1146.4	1097.7	1056.8	1052.1
35°	1359.1	1338.2	1323.7	1342.2	1356.3	1331.6	1282.4	1230.2	1175.9	1133.5	1127.2
37.5°	1433.7	1408.6	1398.8	1424.7	1443.6	1427.5	1374.0	1324.9	1265.5	1219.1	1216.4
40°	1488.0	1463.2	1456.1	1499.0	1532.0	1528.1	1480.1	1423.9	1368.1	1314.7	1309.5
42.5°	1511.6	1494.3	1495.8	1553.6	1604.7	1629.9	1587.0	1526.9	1473.0	1417.6	1414.1
45°	1516.7	1506.1	1518.6	1590.9	1658.2	1709.6	1673.1	1622.8	1561.9	1508.4	1506.8
47.5°	1522.2	1516.3	1535.5	1612.2	1692.0	1751.7	1731.3	1679.4	1617.7	1565.4	1561.5
50°	1535.1	1532.8	1554.4	1627.1	1708.1	1763.1	1739.9	1688.4	1625.1	1573.7	1564.2
52.5°	1539.1	1535.1	1566.2	1650.3	1734.8	1762.7	1712.8	1645.6	1581.9	1524.5	1514.7
55°	*1551.3*	*1544.2*	*1565.4*	*1658.9*	*1771.7*	*1785.5*	*1711.2*	*1610.6*	*1521.8*	*1443.6*	*1420.4*
57.5°	1554.4	1546.5	1560.3	1644.8	1731.6	1719.5	1504.1	1299.7	1132.3	1045.4	1055.3
60°	1537.5	1539.9	1516.3	1506.8	1388.9	1226.2	920.8	736.1	578.1	511.3	525.9
62.5°	1170.4	1180.2	1099.7	956.2	735.3	582.8	385.6	299.5	253.5	241.7	243.7
65°	590.7	604.1	520.4	430.4	319.9	258.6	223.6	216.6	214.2	211.4	211.4
67.5°	233.8	237.8	234.6	219.7	204.4	198.9	197.3	196.5	193.8	192.2	192.6
70°	187.9	191.0	186.3	176.9	170.6	170.2	169.4	167.8	165.9	165.9	167.0
72.5°	153.3	156.4	149.7	143.8	139.1	135.6	133.6	132.4	129.7	129.7	130.9
75°	112.8	114.8	109.3	108.5	103.4	99.8	96.7	95.1	91.6	90.0	91.2
77.5°	75.1	74.7	71.9	71.9	70.0	65.6	62.1	58.6	53.8	50.7	51.5
80°	48.7	48.7	47.6	47.6	45.6	42.1	37.7	34.2	31.4	29.1	29.1
82.5°	31.0	30.7	30.3	29.9	29.1	25.5	22.4	20.0	18.1	16.5	16.9
85°	17.3	17.3	16.5	16.5	14.9	13.0	11.4	9.8	8.6	8.3	8.3
87.5°	5.9	5.9	5.5	5.5	4.7	3.5	2.8	2.4	2.0	1.6	2.0
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

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

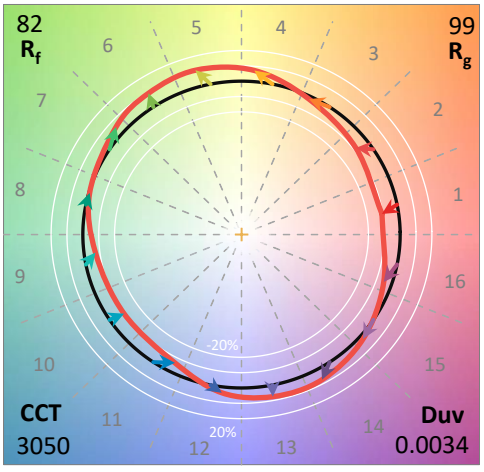
Test Information

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

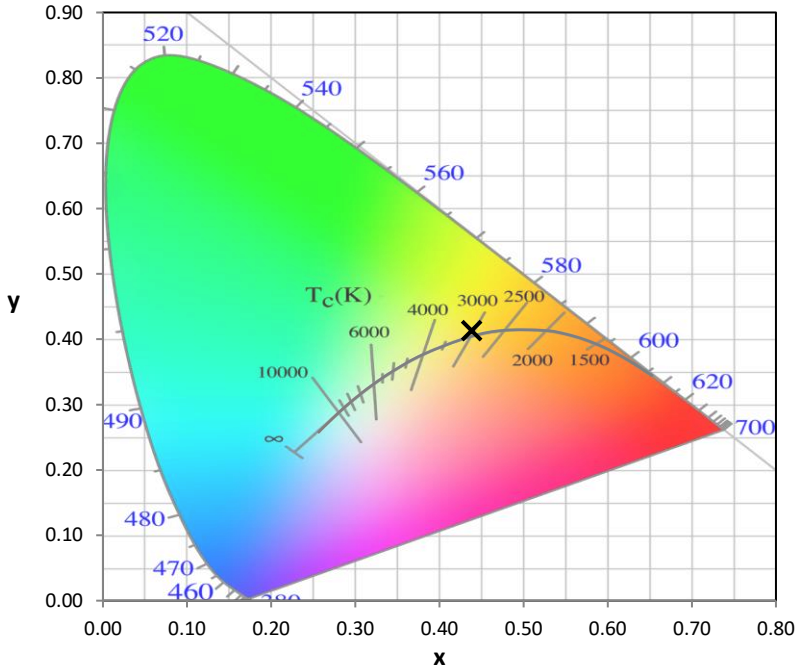
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

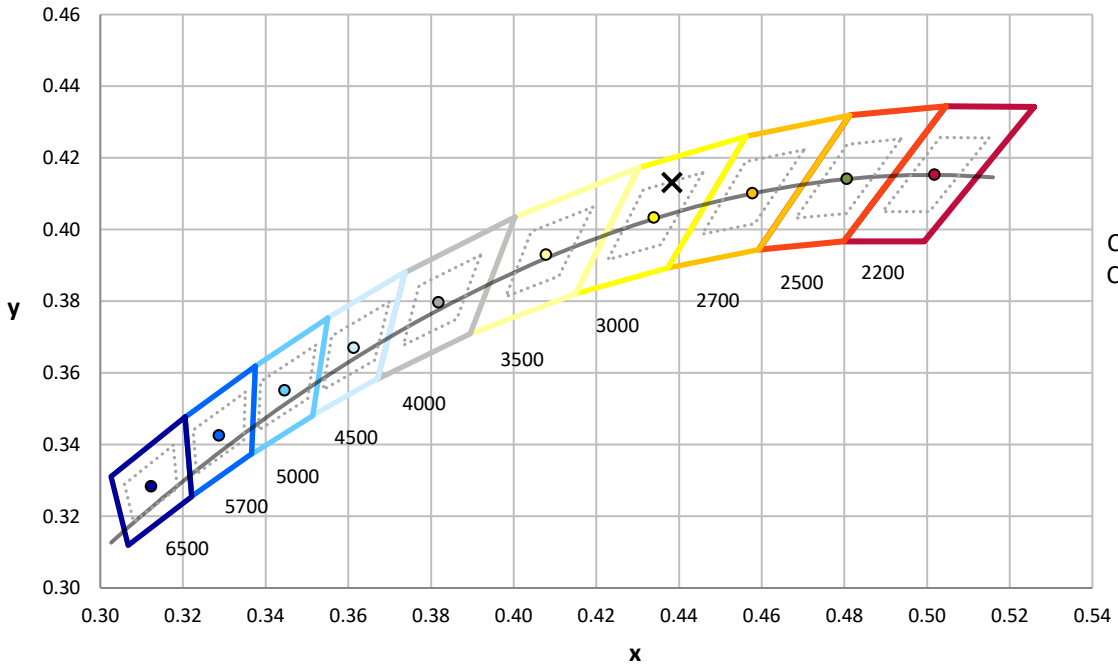
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

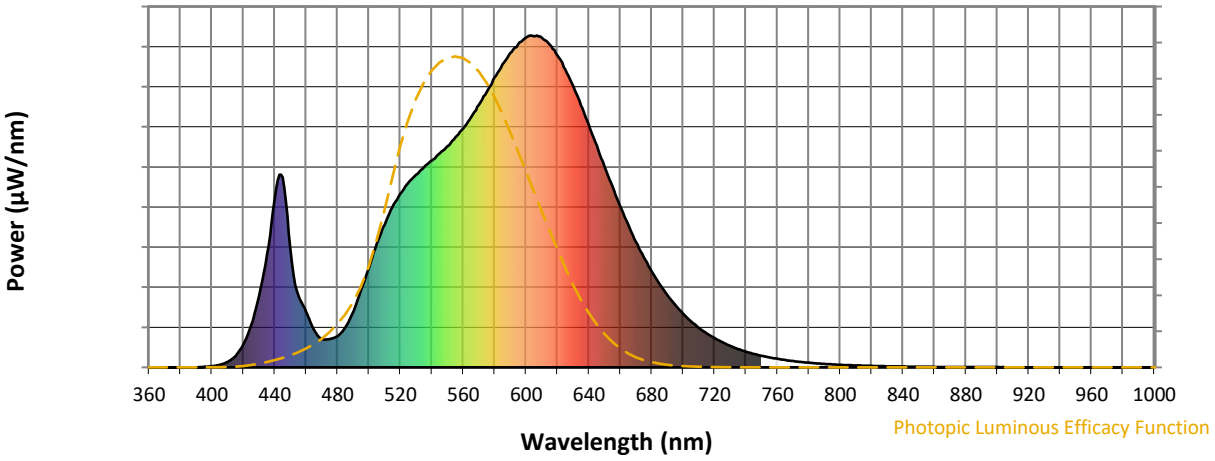


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

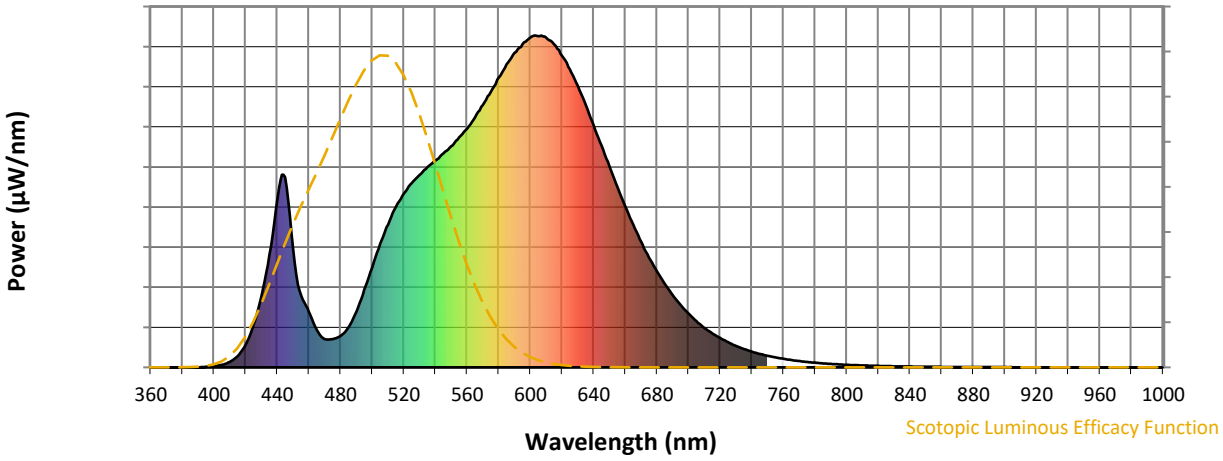


Photopic Lumens: NR

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

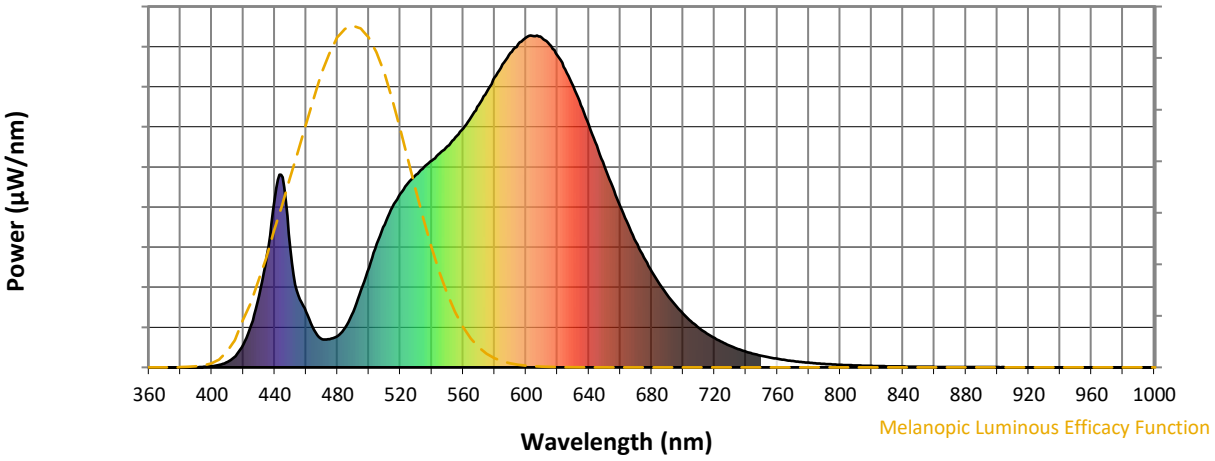


Scotopic Lumens: NR **S/P: 1.27**

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			

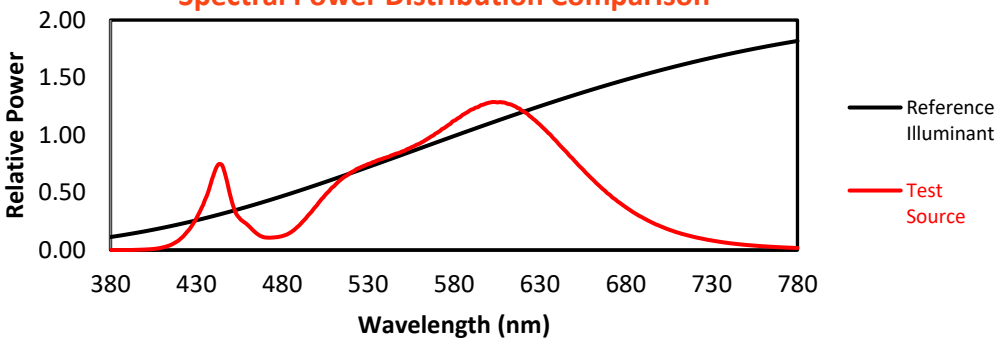
REPORT NUMBER: SP1-2408-195-9

TM-30-18

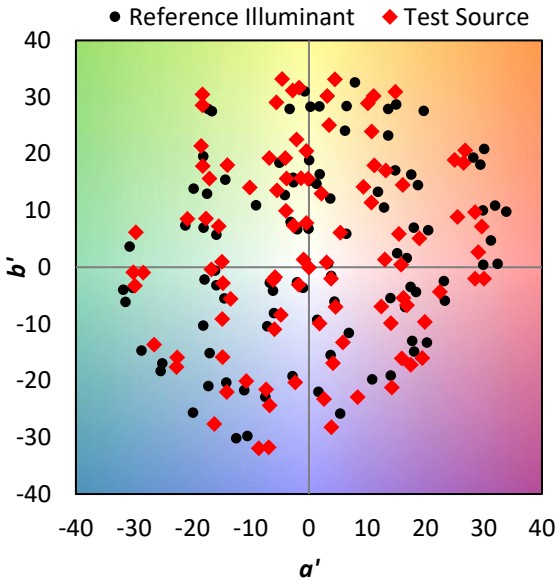
Summary

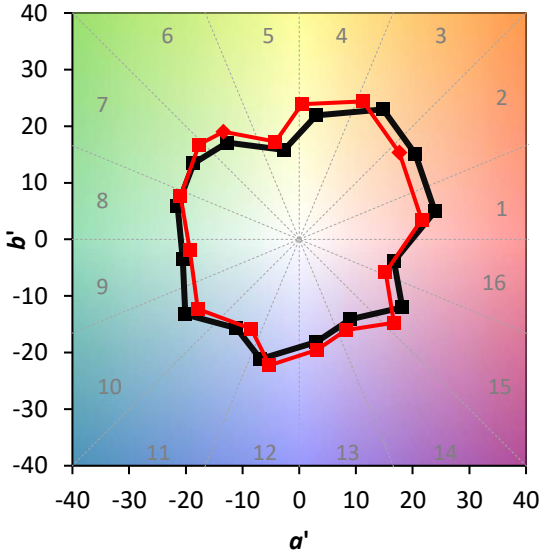
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

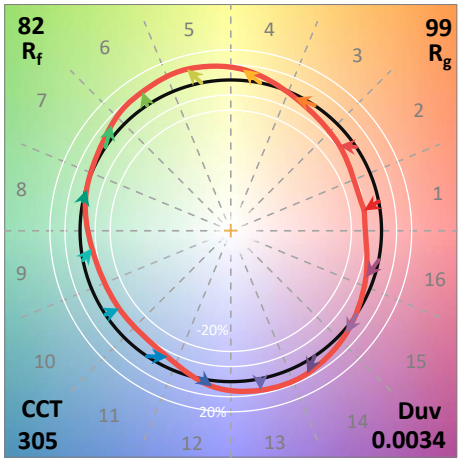
Spectral Power Distribution Comparison

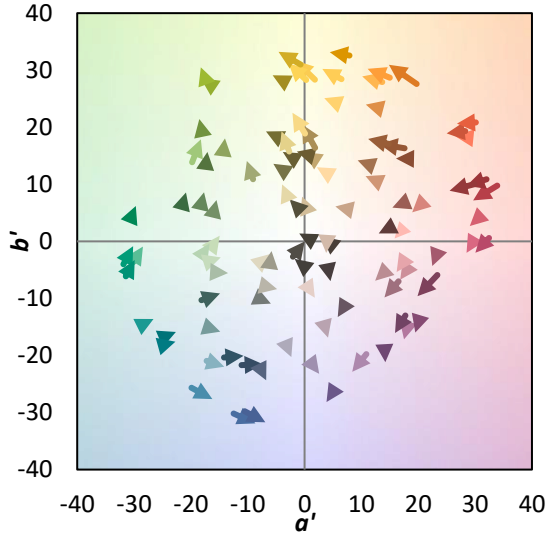


Color Vector Graphics







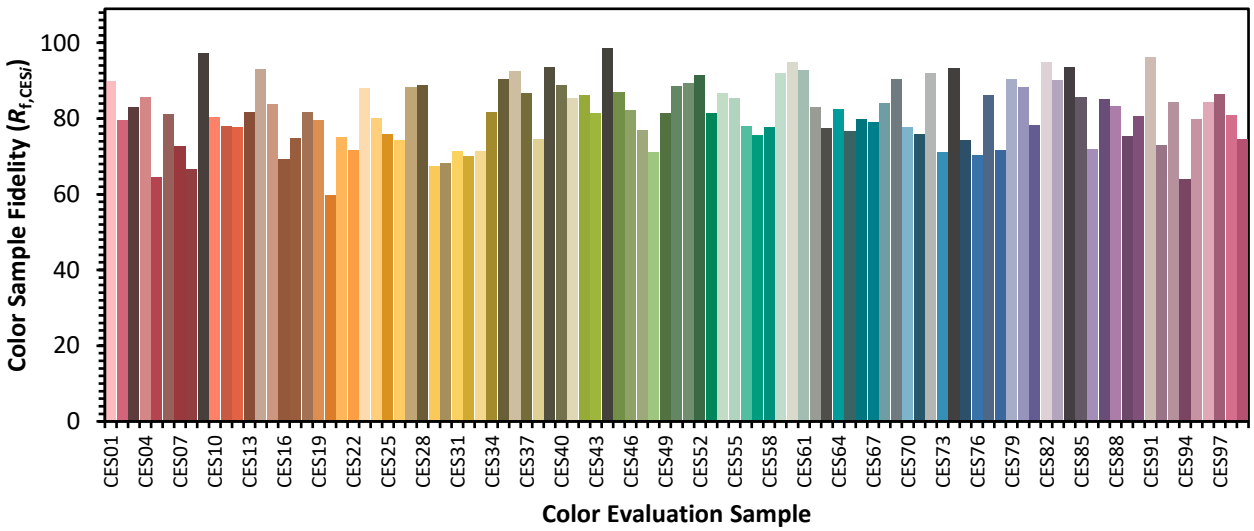


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

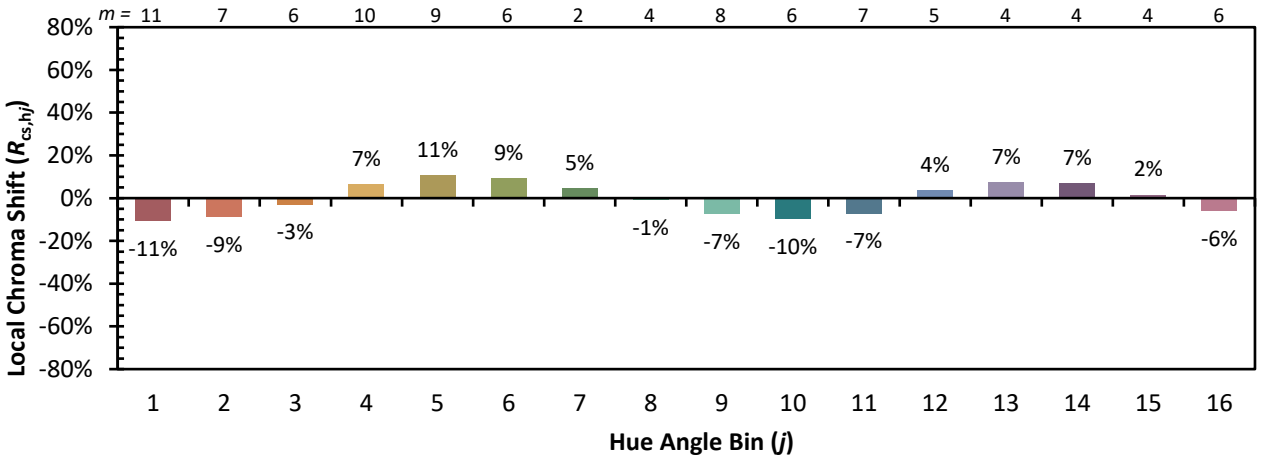
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

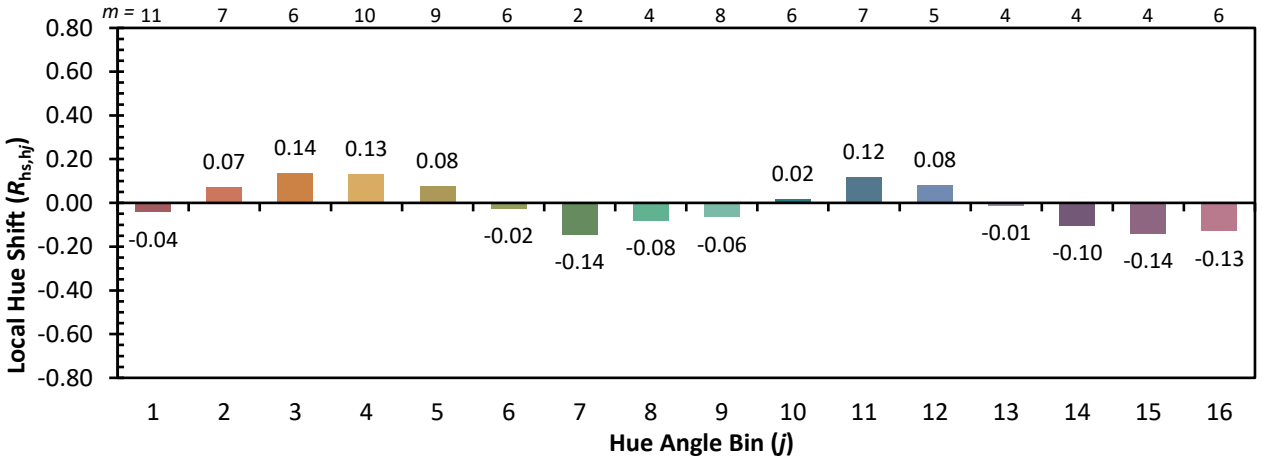


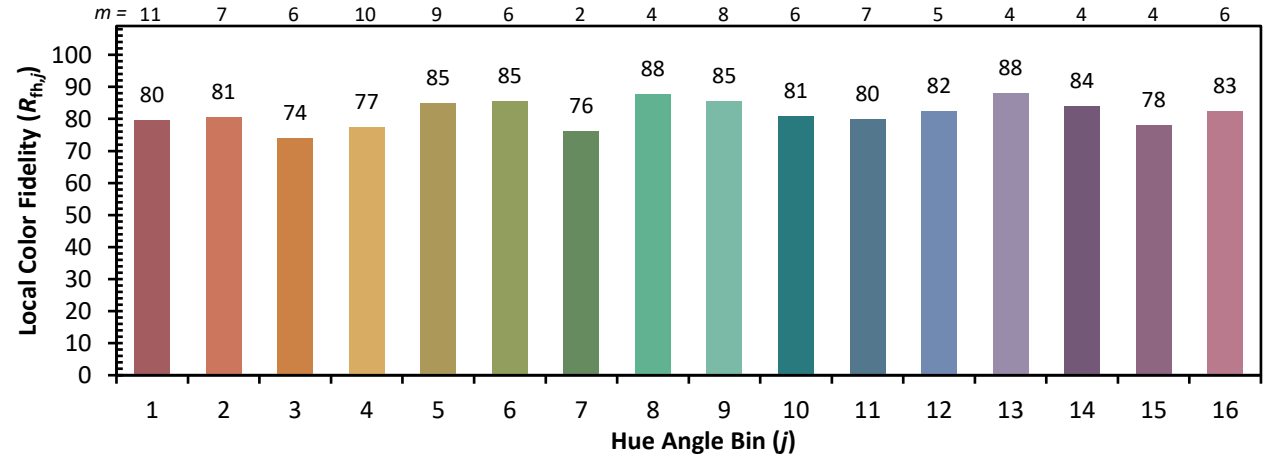
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



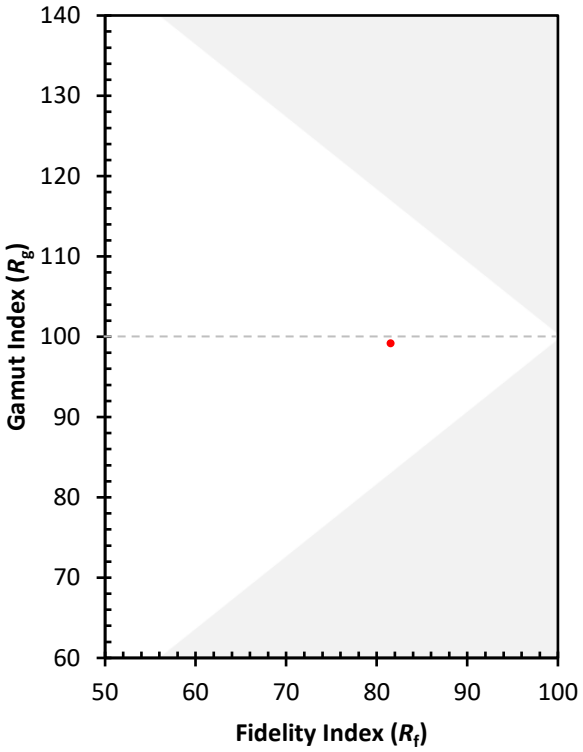


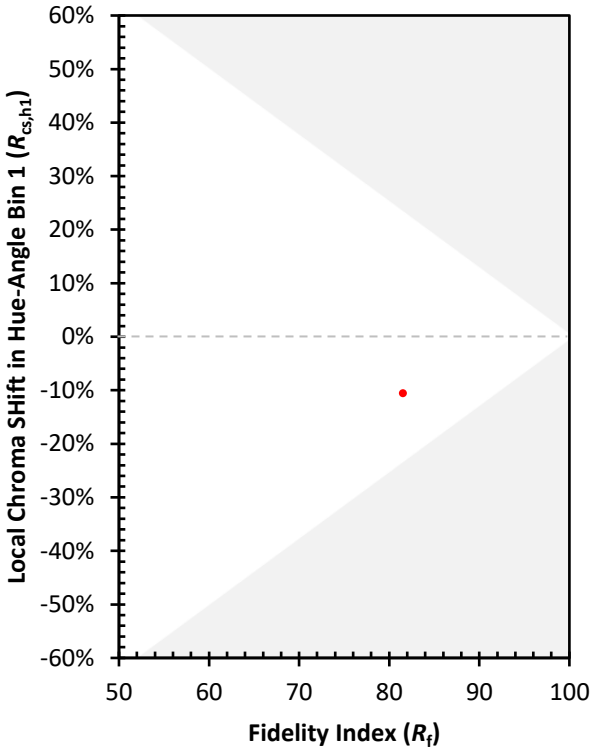


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)