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: P631539

Luminaire Tested: GWS-SA1F-830-U-SL2-W-GRSBK

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:	P631539
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1F-830-U-SL2-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3929.9 lumens
Efficiency:	N/A
Efficacy:	58.5 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	67.2
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

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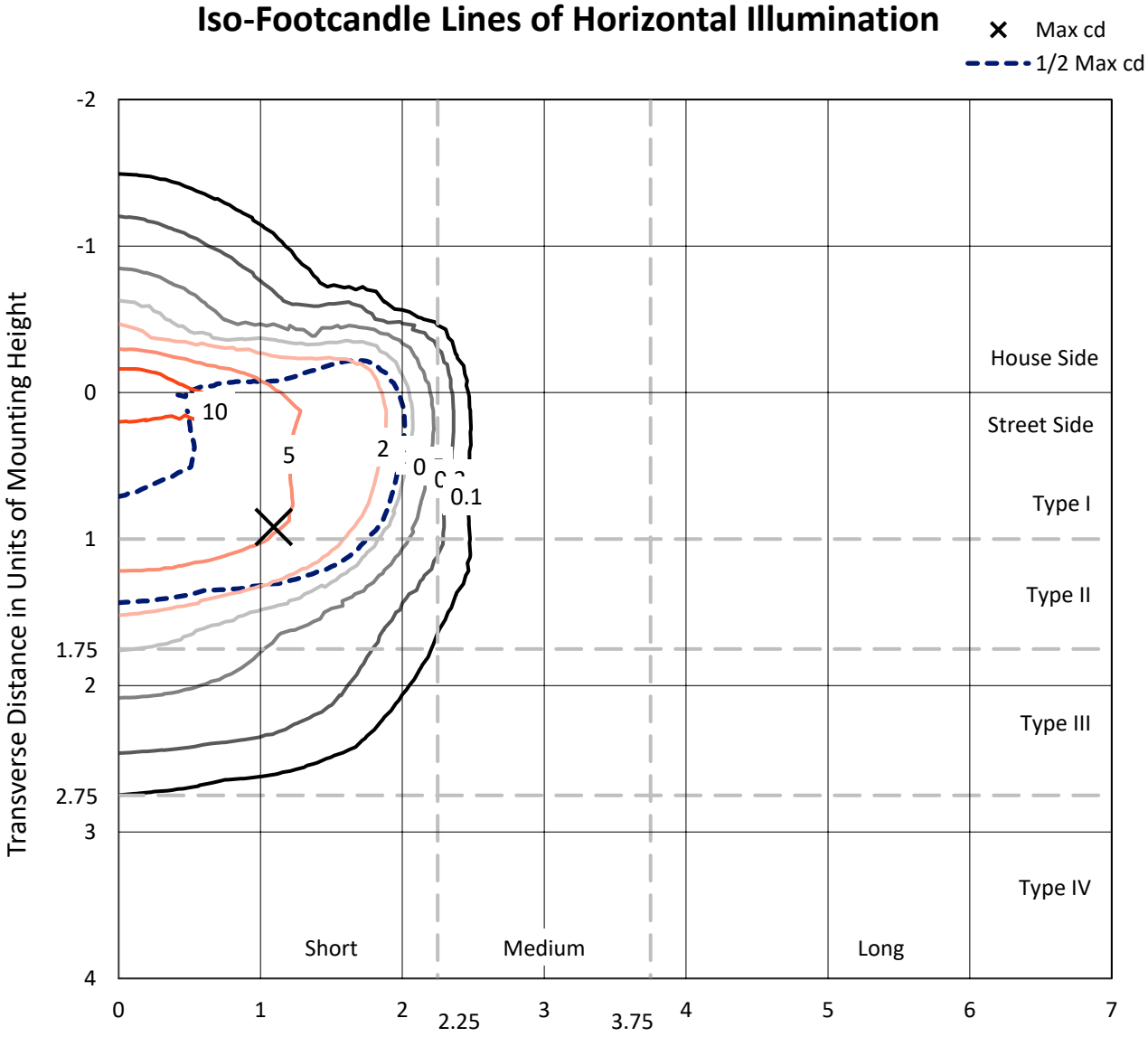
Scaled Data Report

REPORT NUMBER: P631539
CATALOG NUMBER: GWS-SA1F-830-U-SL2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
Type II - Short - N/A

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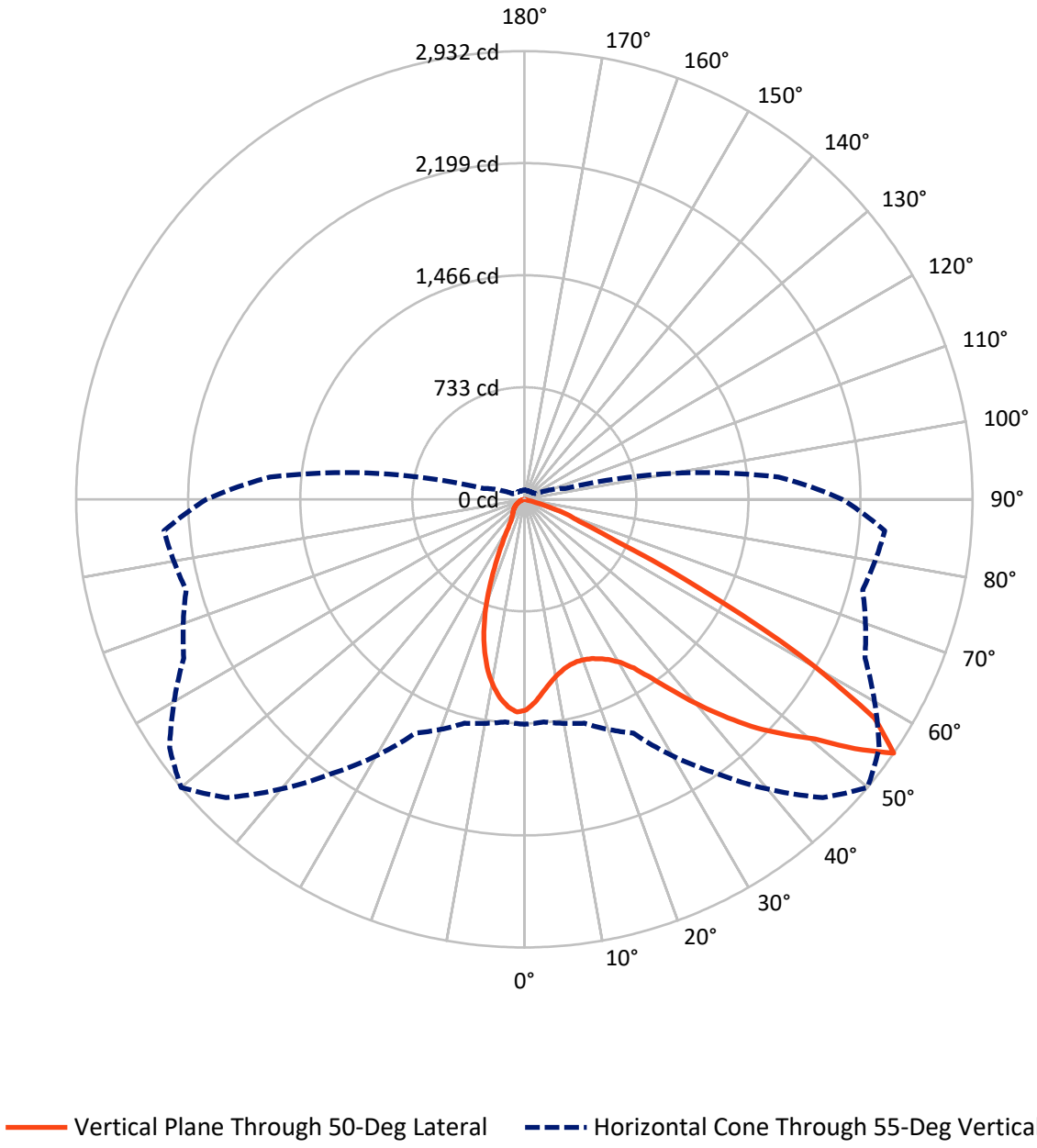
Luminous Intensity Polar Plot



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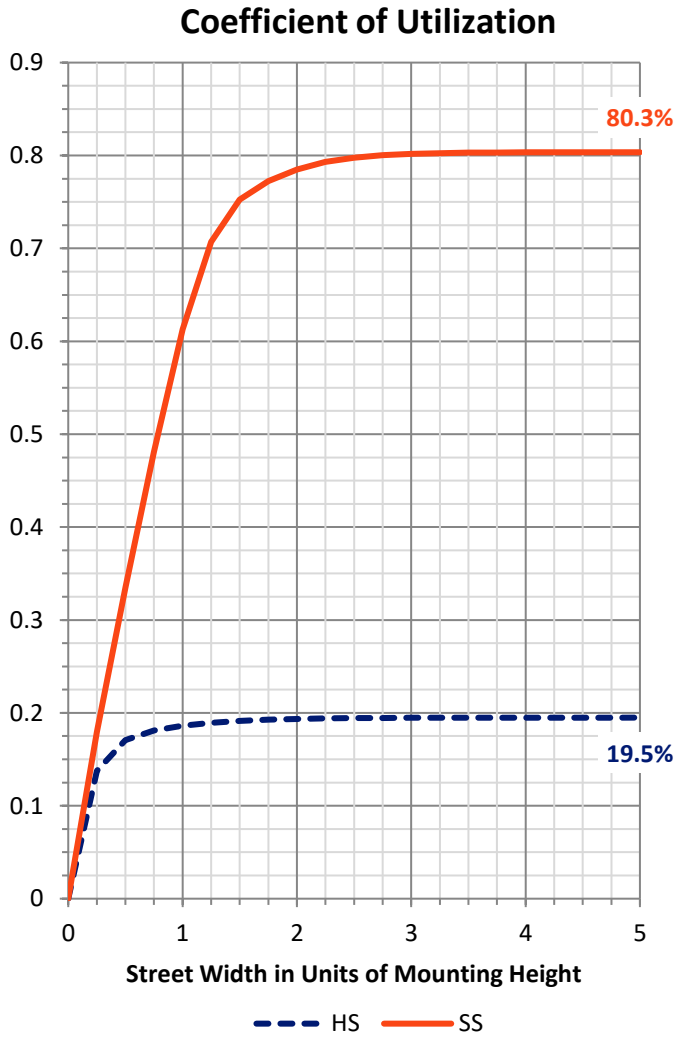
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	774.4	0.0	774.4
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	3155.5	0.0	3155.5
	% Fixture	80.3	0.0	80.3
Total	Lumens	3929.9	0.0	3929.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	3.1
10°-20°	298.0	7.6
20°-30°	420.3	10.7
30°-40°	622.0	15.8
40°-50°	897.3	22.8
50°-60°	1058.5	26.9
60°-70°	472.2	12.0
70°-80°	40.6	1.0
80°-90°	0.0	0.0
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°	3929.9	100.0
0°-180°	3929.9	100.0



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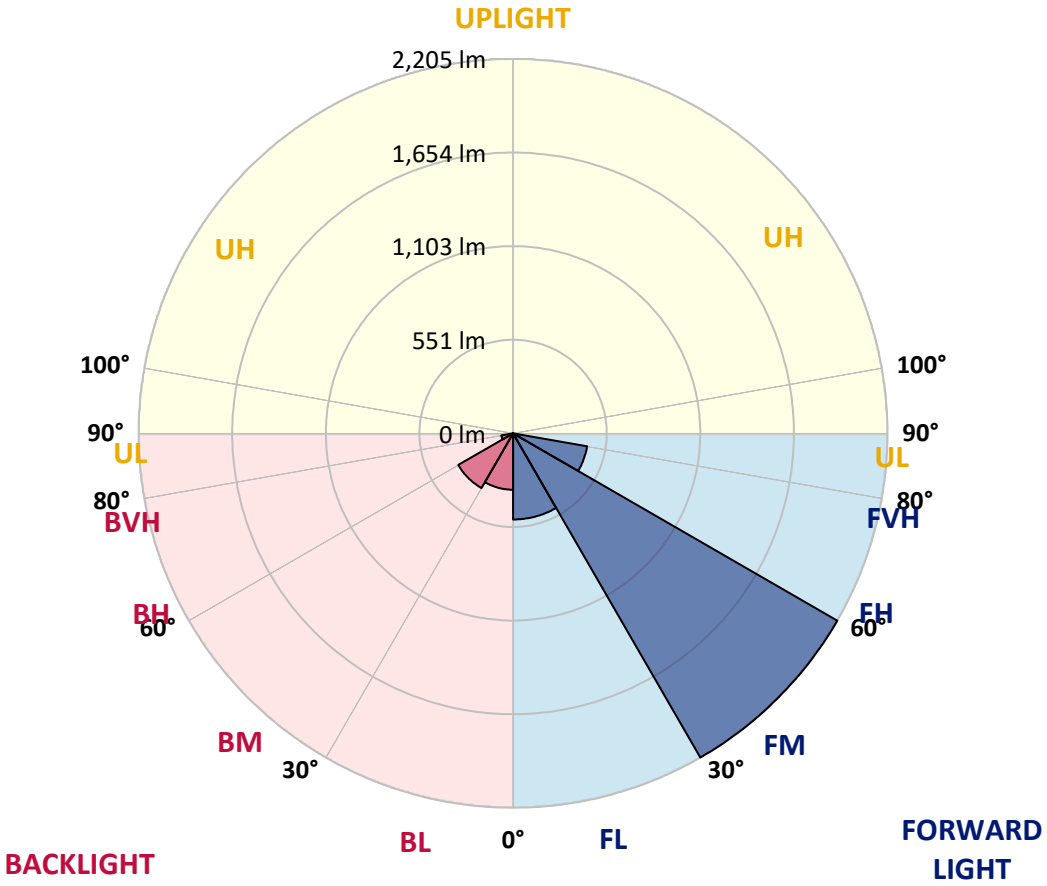
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	507.4	12.9			
FM	(30°-60°)	2205.3	56.1			
FH	(60°-80°)	442.8	11.3			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	332.0	8.4	B1/500		
BM	(30°-60°)	372.4	9.5	B1/1000		
BH	(60°-80°)	69.9	1.8	B0/110		G0/110
BVH	(80°-90°)	0.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
Type II Short



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Scaled Data Report

REPORT NUMBER: P631539
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	*1378.8*	1378.8	1378.8	1378.8	1378.8
2.5°	1281.0	1281.9	1282.4	1295.3	1300.1	1319.3	*1329.4*	1334.7	1348.6	1364.9	1378.3
5°	1195.1	1193.6	1196.0	1212.4	1222.9	1251.2	*1266.6*	1277.1	1307.8	1346.2	1378.3
7.5°	1120.2	1123.1	1126.0	1143.7	1159.6	1190.3	*1212.4*	1228.2	1270.9	1328.0	1382.2
10°	1067.5	1067.5	1071.8	1091.9	1110.6	1148.5	*1170.6*	1190.8	1241.6	1311.7	1386.5
12.5°	1028.6	1029.1	1034.4	1057.4	1079.0	1118.3	*1141.3*	1161.0	1217.1	1295.3	1387.5
15°	1010.4	1008.9	1013.3	1037.7	1061.7	1098.6	*1122.6*	1141.8	1199.9	1286.2	1392.3
17.5°	1005.6	1004.6	1008.0	1032.0	1056.4	1092.4	*1115.9*	1135.1	1197.5	1289.1	1406.7
20°	1019.5	1017.6	1016.1	1036.8	1059.8	1095.3	*1119.8*	1141.3	1209.0	1304.9	1428.7
22.5°	1052.6	1052.6	1049.2	1059.3	1074.7	1106.8	*1132.2*	1160.5	1239.2	1336.6	1461.3
25°	1113.5	1108.7	1102.5	1106.8	1104.9	1125.0	*1155.3*	1194.6	1296.3	1388.9	1501.2
27.5°	1183.1	1187.4	1176.8	1177.3	1160.5	1153.3	*1188.4*	1247.9	1381.2	1462.8	1560.2
30°	1277.6	1274.2	1274.7	1273.3	1234.4	1200.4	*1238.3*	1317.4	1488.2	1575.5	1636.9
32.5°	1351.5	1356.3	1372.1	1381.2	1330.4	1275.7	*1316.0*	1411.9	1610.1	1704.1	1731.0
35°	1429.7	1438.3	1470.5	1500.2	1457.5	1394.7	*1437.8*	1537.1	1724.7	1831.2	1838.9
37.5°	1512.2	1529.5	1567.9	1620.1	1613.4	1557.8	*1597.1*	1684.4	1814.9	1908.0	1928.2
40°	1606.7	1623.5	1686.4	1761.7	1777.5	1765.0	*1778.0*	1828.8	1874.4	1911.4	1966.5
42.5°	1710.3	1733.4	1813.0	1913.8	1973.2	1984.3	*1954.1*	1948.8	1900.3	1873.0	1958.4
45°	1832.7	1859.5	1949.7	2080.2	2174.7	2189.6	*2137.3*	2069.7	1916.6	1844.7	1933.9
47.5°	1969.9	1995.3	2085.0	2241.9	2382.5	2388.2	*2297.1*	2188.2	1965.1	1877.3	1952.6
50°	2015.9	2031.8	2109.5	2293.7	2552.8	2596.9	*2465.0*	2321.6	2062.5	1973.2	2043.8
52.5°	1857.6	1863.9	1931.5	2117.7	2518.3	2801.8	*2710.2*	2520.7	2235.7	2119.6	2184.3
55°	*1471.9*	*1461.8*	*1516.5*	*1687.3*	*2188.7*	*2760.1*	*2932.3*	*2833.5*	*2458.8*	*2291.3*	*2367.1*
57.5°	1029.6	1017.6	1005.1	1120.7	1633.1	2339.8	*2702.0*	2877.1	2671.3	2461.6	2564.3
60°	846.3	834.8	774.3	721.1	987.3	1680.1	*2075.4*	2405.0	2654.0	2453.0	2558.1
62.5°	731.2	724.4	700.0	627.5	581.0	959.0	*1299.7*	1615.3	2036.6	1926.2	1932.0
65°	574.3	572.4	589.1	596.8	513.8	530.6	*663.0*	839.6	1101.0	1038.2	984.5
67.5°	392.4	388.1	419.8	516.2	494.2	418.8	*388.1*	391.5	476.4	291.2	231.2
70°	249.5	239.4	239.9	320.0	402.0	330.6	*299.4*	263.4	237.0	43.2	48.9
72.5°	159.8	153.5	131.9	144.4	186.1	161.2	*162.6*	140.1	93.6	23.0	26.9
75°	67.2	61.9	47.5	37.9	37.4	23.5	*20.6*	19.2	13.0	13.0	13.9
77.5°	0.5	0.0	0.0	0.5	1.0	0.5	*0.5*	1.0	1.9	2.9	3.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.5
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	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	0.0

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REPORT NUMBER: P631539
CATALOG NUMBER: GWS-SA1F-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8
2.5°	1386.5	1375.0	1387.9	1392.7	1392.3	1392.7	1378.8	1369.2	1368.8	1356.8	1351.0
5°	1391.8	1382.7	1392.3	1386.0	1371.2	1352.4	1327.5	1305.9	1296.3	1282.4	1275.7
7.5°	1401.9	1392.3	1390.8	1365.9	1328.9	1289.6	1245.5	1206.1	1185.0	1159.6	1161.0
10°	1409.1	1398.0	1379.3	1328.5	1267.0	1204.2	1138.5	1079.9	1043.0	1008.9	1003.2
12.5°	1411.9	1395.6	1352.0	1275.2	1188.8	1106.8	1010.4	926.9	869.3	824.7	818.5
15°	1417.2	1390.8	1316.9	1210.9	1092.4	976.3	853.5	739.3	663.0	611.7	616.0
17.5°	1425.4	1385.5	1277.6	1138.9	988.8	824.7	658.7	527.7	457.7	427.9	428.4
20°	1436.9	1379.3	1234.4	1059.8	864.5	653.4	460.6	361.7	342.1	341.1	339.7
22.5°	1452.2	1373.1	1188.4	973.0	717.2	457.7	306.6	275.9	284.0	299.8	302.7
25°	1470.5	1365.4	1137.0	875.1	556.5	300.3	229.8	225.0	244.7	265.8	270.6
27.5°	1498.8	1361.6	1078.5	763.8	390.5	215.4	188.1	190.9	208.7	226.4	230.8
30°	1546.7	1368.8	1014.7	639.0	250.9	171.8	163.1	167.4	177.0	186.1	190.0
32.5°	1612.0	1389.9	952.8	502.8	179.0	149.2	147.3	149.7	153.5	158.8	160.2
35°	1688.3	1426.3	889.0	359.8	147.8	136.3	134.3	134.3	136.3	137.2	137.7
37.5°	1751.1	1464.7	829.0	239.4	132.4	126.2	123.3	121.9	121.4	122.3	122.8
40°	1778.5	1480.5	763.8	174.2	121.4	117.1	112.7	108.4	108.4	111.8	112.3
42.5°	1759.3	1462.8	688.5	143.9	113.7	107.5	100.7	96.9	98.8	102.2	103.1
45°	1718.5	1419.1	605.5	127.1	106.0	97.9	90.2	87.8	89.7	94.0	95.0
47.5°	1711.8	1390.3	506.1	116.1	97.9	89.7	81.6	79.2	81.6	84.9	85.9
50°	1778.5	1415.3	395.8	106.5	90.2	81.1	74.4	72.0	73.4	75.3	76.3
52.5°	1900.3	1507.9	319.5	97.4	81.1	72.4	68.1	65.2	65.2	67.2	67.6
55°	*2080.2*	*1669.6*	*275.9*	*86.8*	*70.5*	*65.7*	*61.9*	*59.0*	*59.0*	*60.0*	*60.4*
57.5°	2287.5	1865.3	285.9	72.9	61.9	59.5	56.1	53.7	54.7	54.7	54.7
60°	2258.7	1850.9	306.1	61.4	54.7	53.7	50.9	49.9	52.3	50.4	49.4
62.5°	1663.8	1278.6	160.2	50.4	47.0	46.1	44.1	46.1	49.4	44.1	42.2
65°	807.9	618.9	64.3	41.3	39.8	38.9	37.9	40.8	42.7	34.5	32.6
67.5°	190.0	154.5	41.7	35.0	33.1	31.2	32.1	32.6	31.2	23.5	22.5
70°	49.4	48.5	32.6	29.3	26.4	24.5	24.5	24.0	20.6	14.9	13.9
72.5°	26.9	26.4	23.5	22.1	18.2	16.3	16.8	14.9	11.5	8.6	8.2
75°	13.4	14.4	13.4	12.5	10.1	9.1	9.1	8.2	5.8	3.4	3.4
77.5°	2.9	3.4	3.4	2.9	2.4	1.9	1.9	2.4	1.0	0.0	0.0
80°	0.5	0.5	0.5	0.5	0.5	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	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	0.0

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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

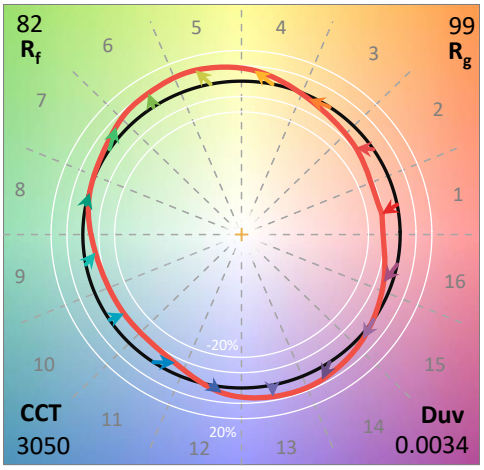
Test Information

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

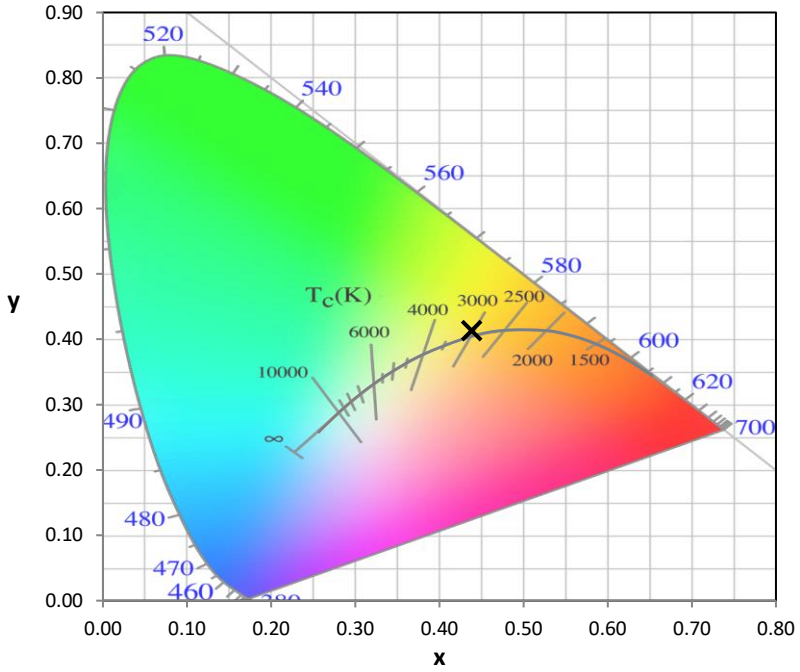
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

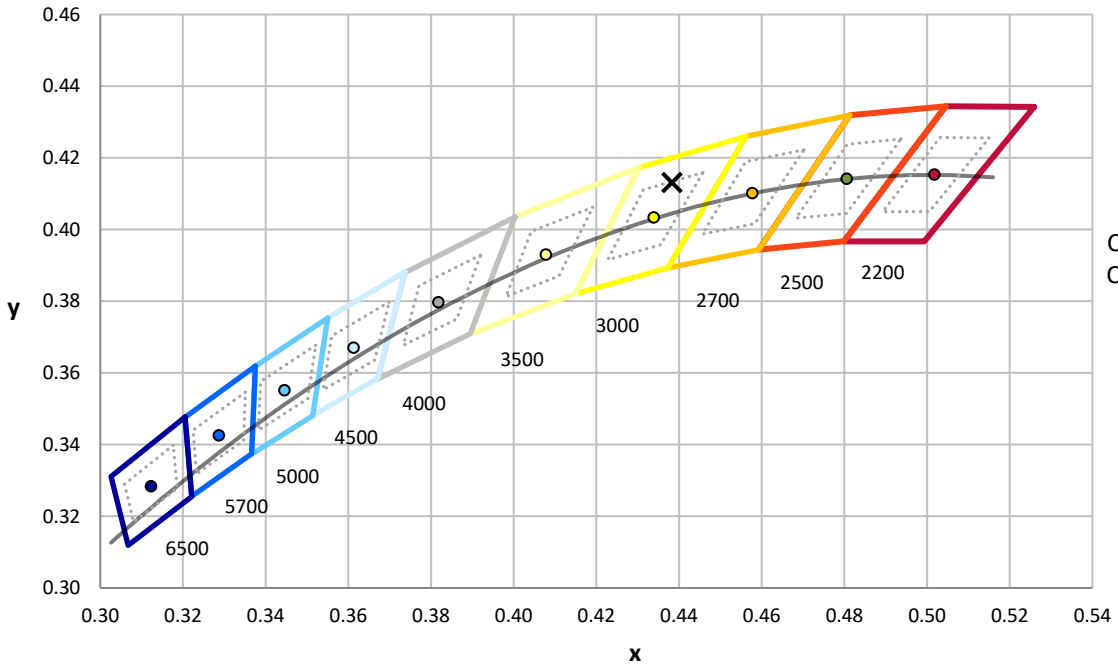
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

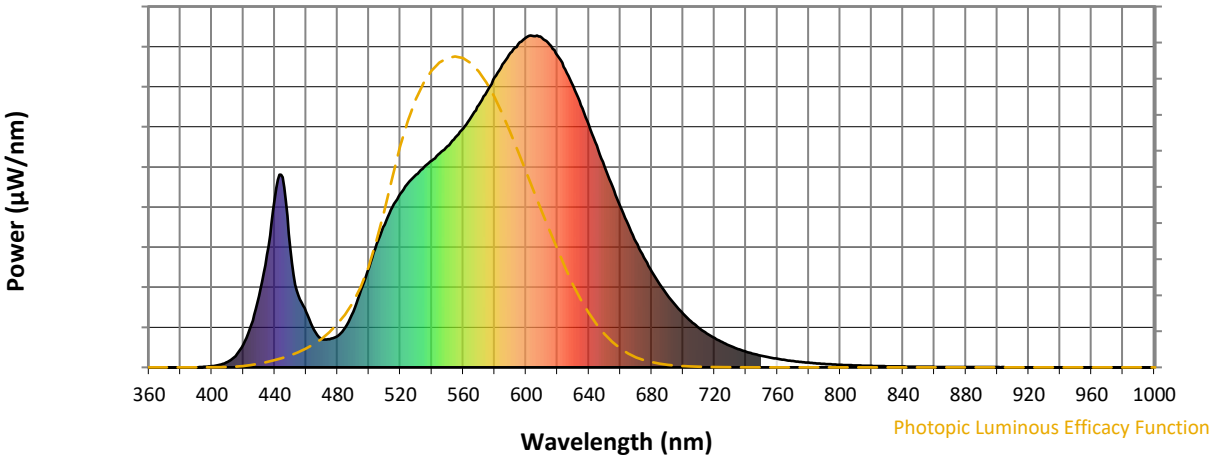


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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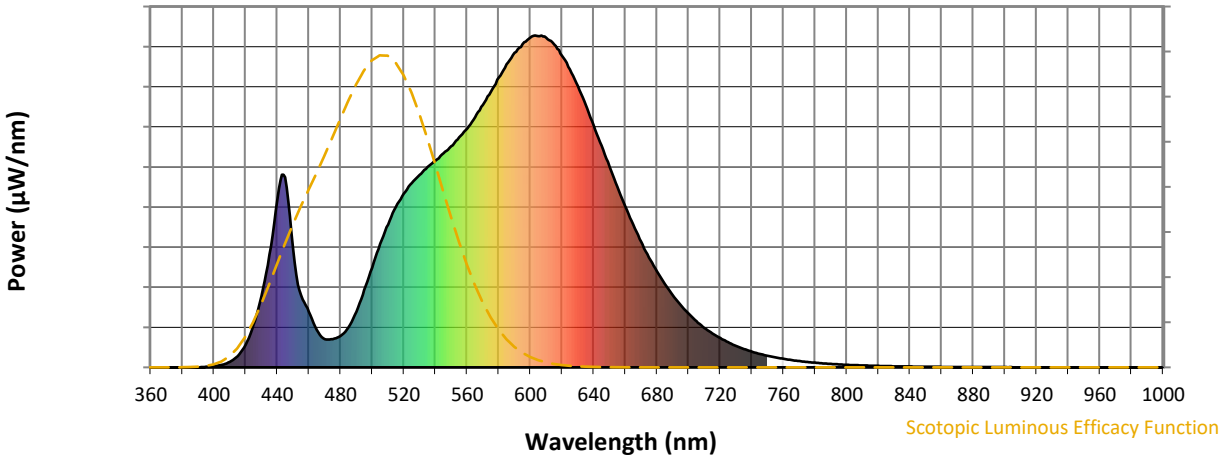
Scotopic Flux vs. Wavelength



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			

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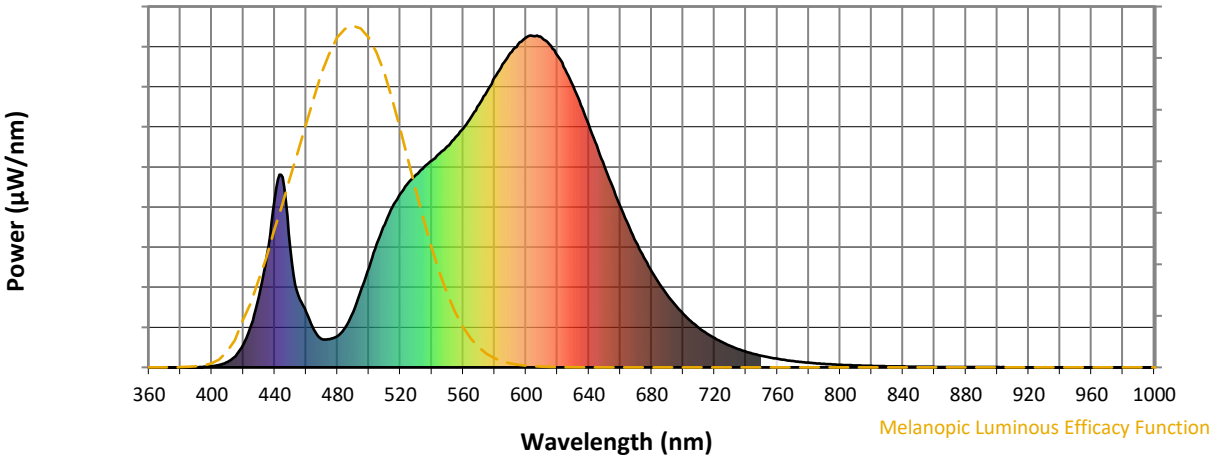
Melanopic Flux vs. Wavelength



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			

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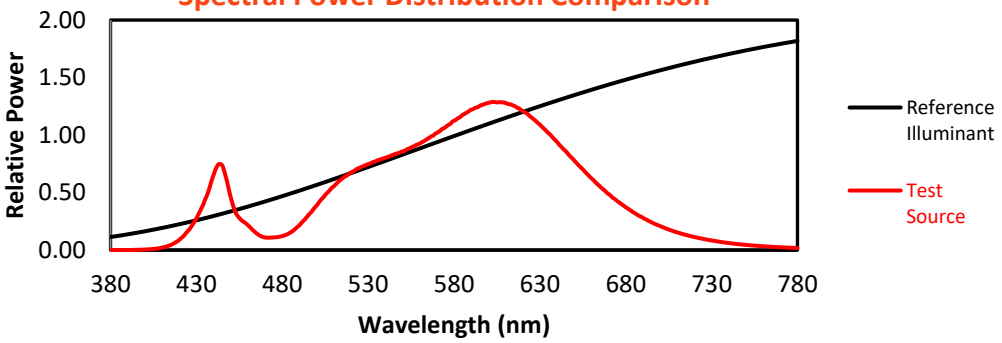
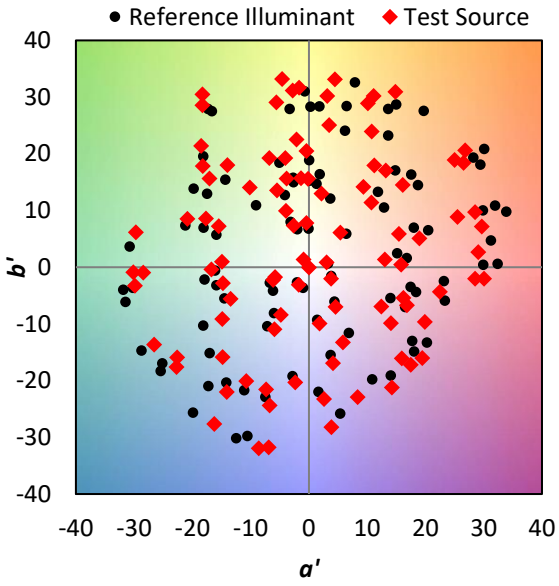
Summary

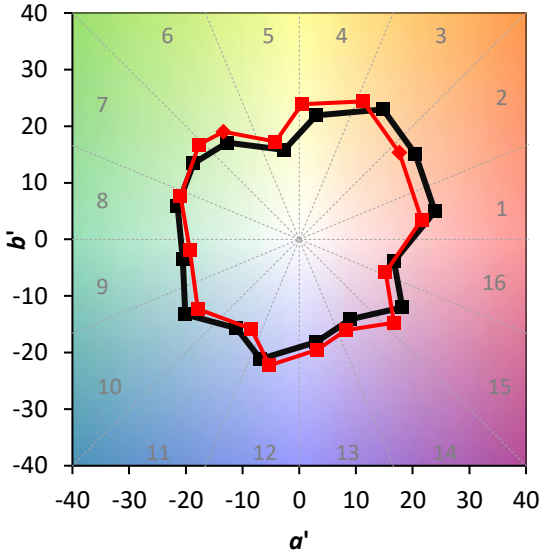
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

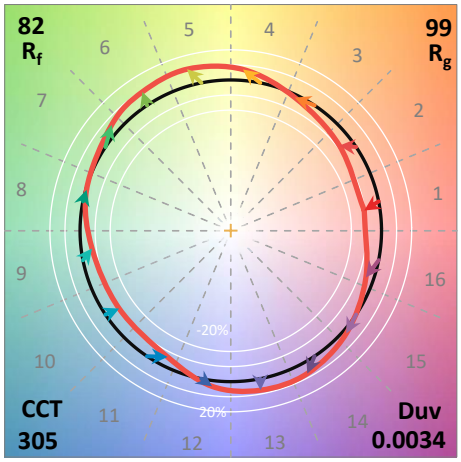
Spectral Power Distribution Comparison

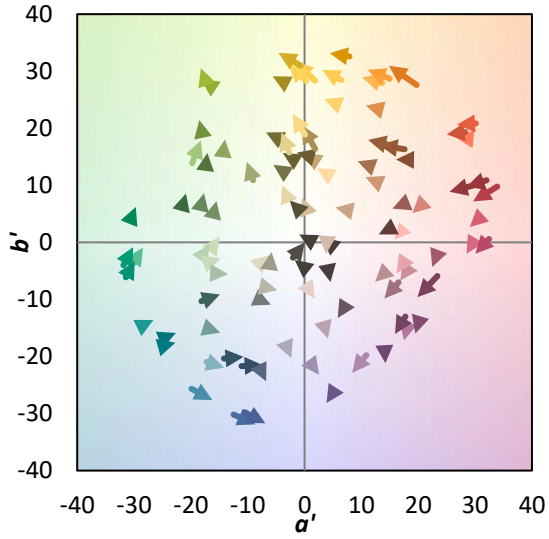


Color Vector Graphics









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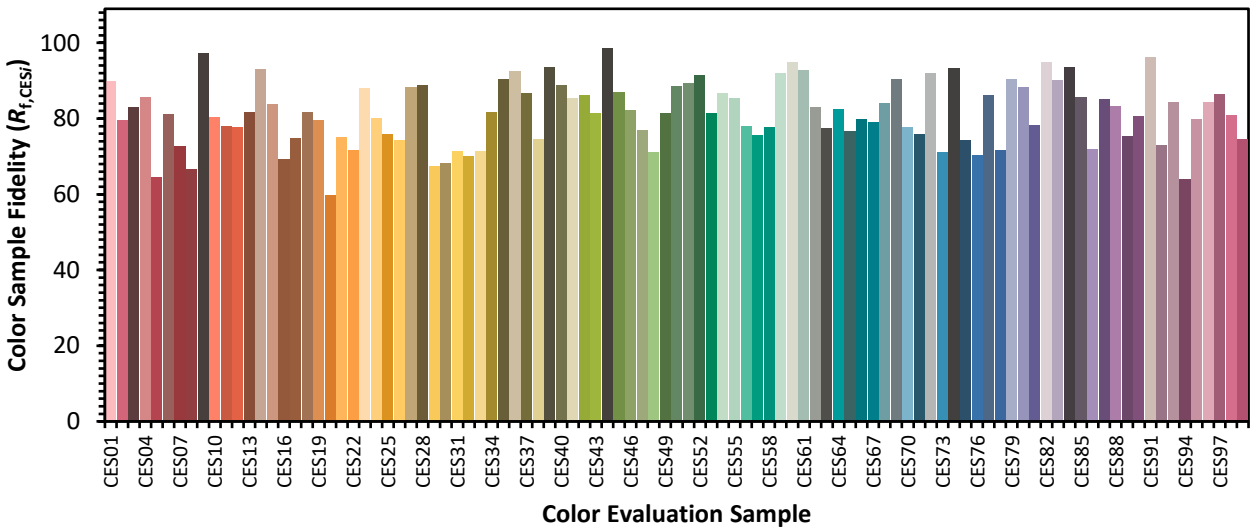
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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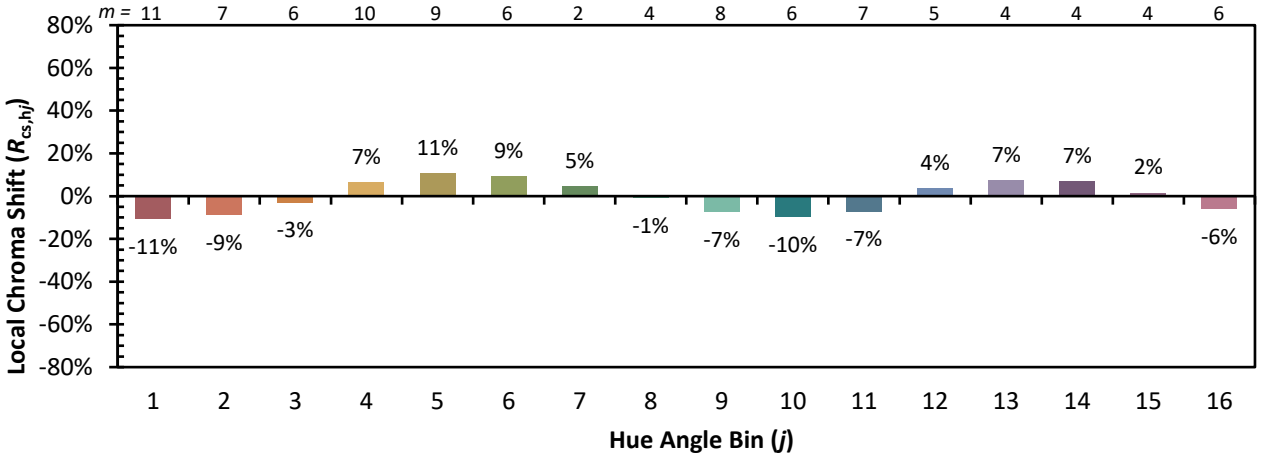
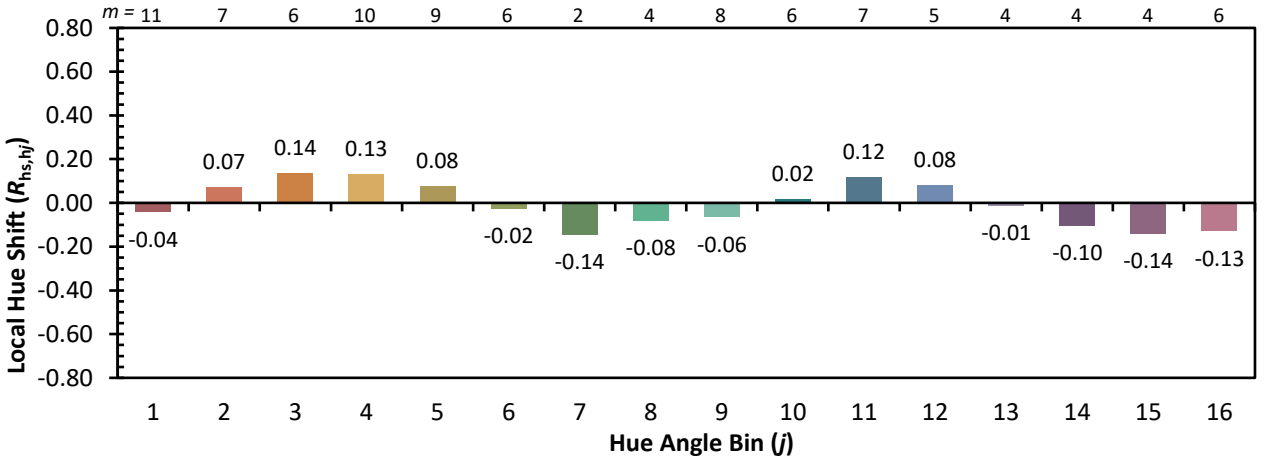
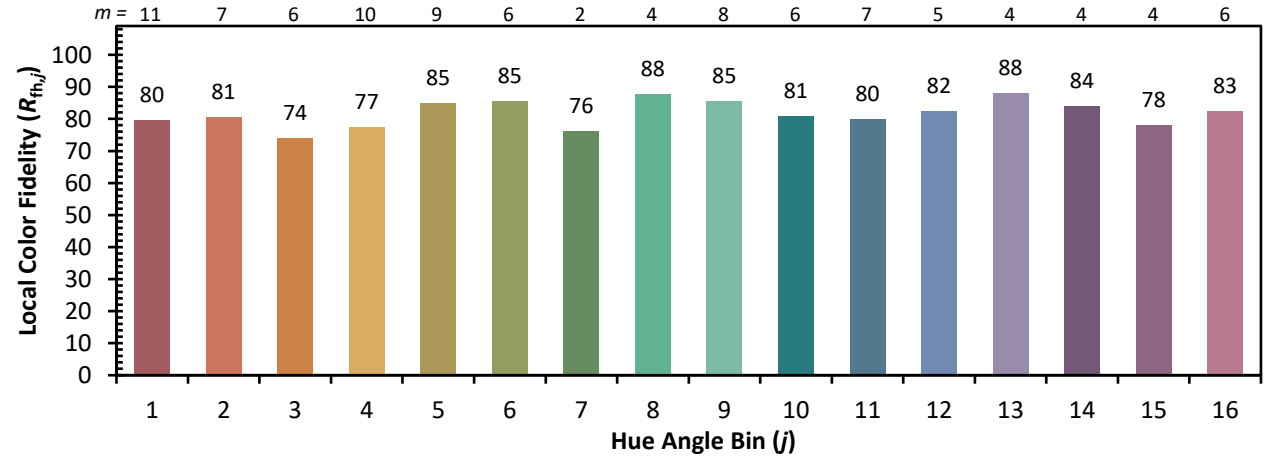
Color Rendition by Hue-Angle Bin







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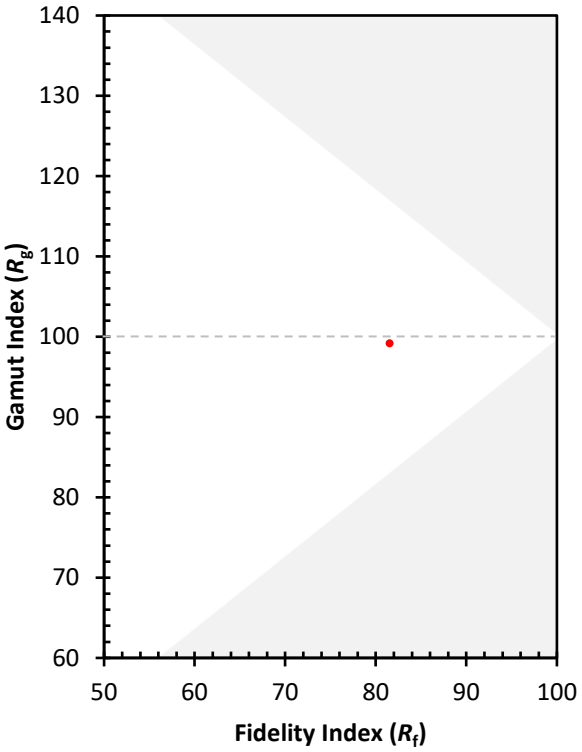
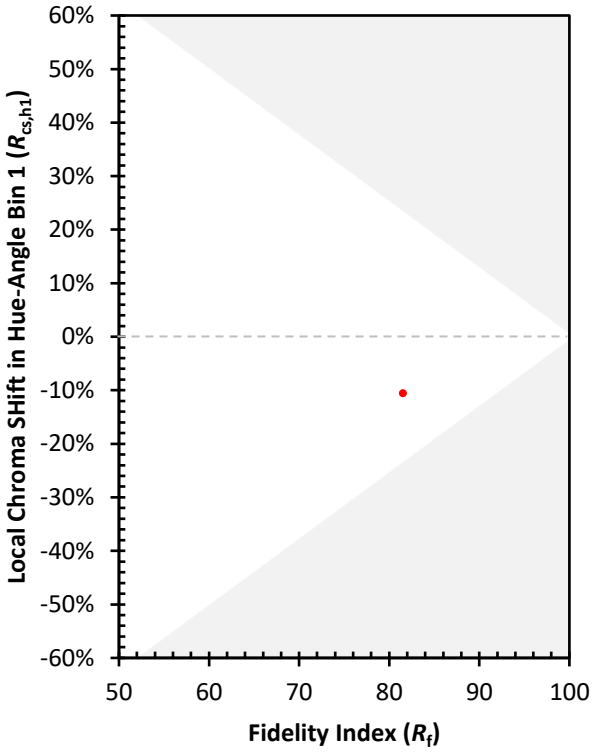
Measure Comparisons





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