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: P631542

Luminaire Tested: GWS-SA1F-830-U-SL2-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:	P631542
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
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
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6576.8 lumens
Efficiency:	N/A
Efficacy:	97.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2

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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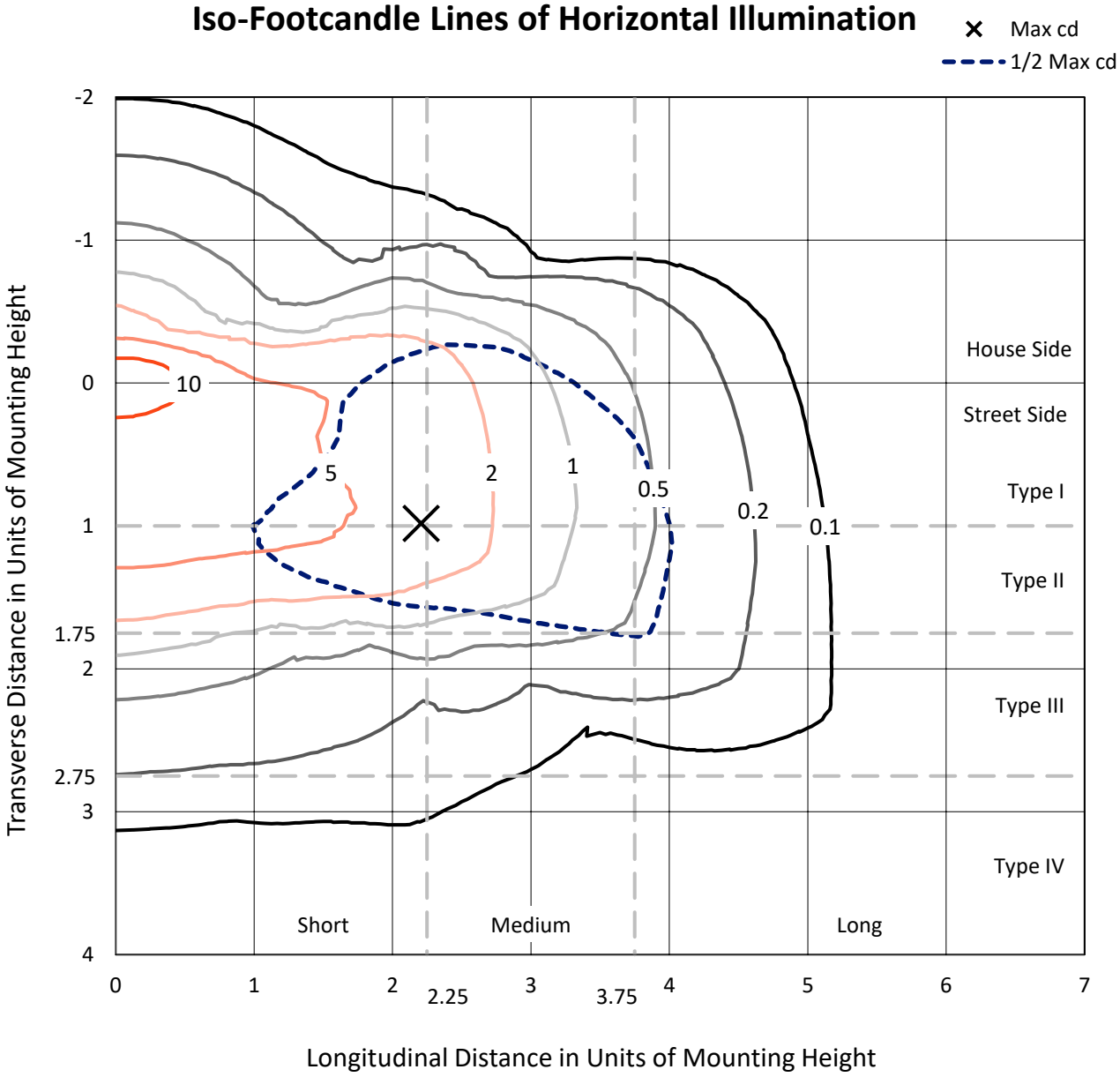
Scaled Data Report

REPORT NUMBER: P631542
CATALOG NUMBER: GWS-SA1F-830-U-SL2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
Type II - Short - N/A

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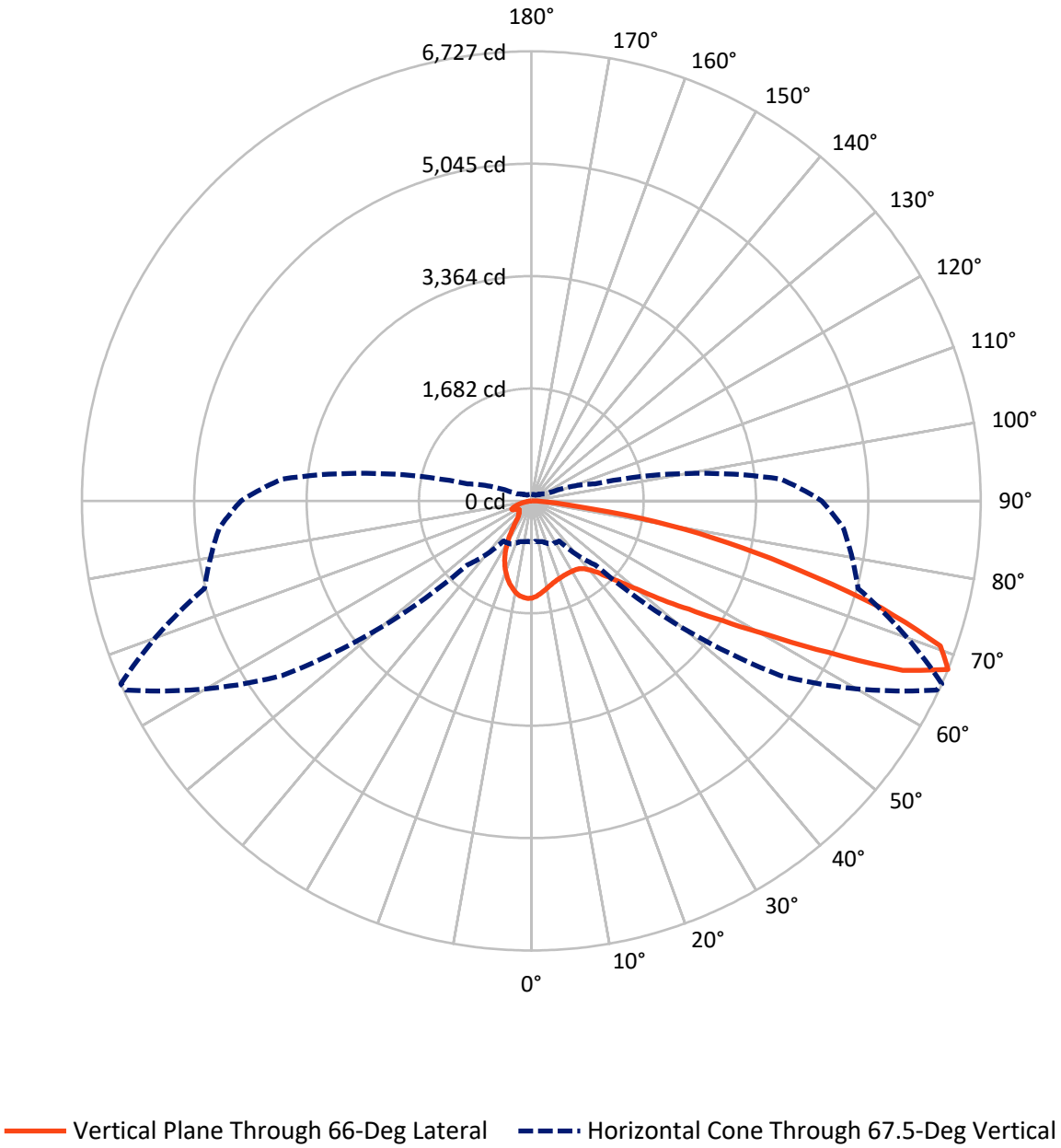
Luminous Intensity Polar Plot



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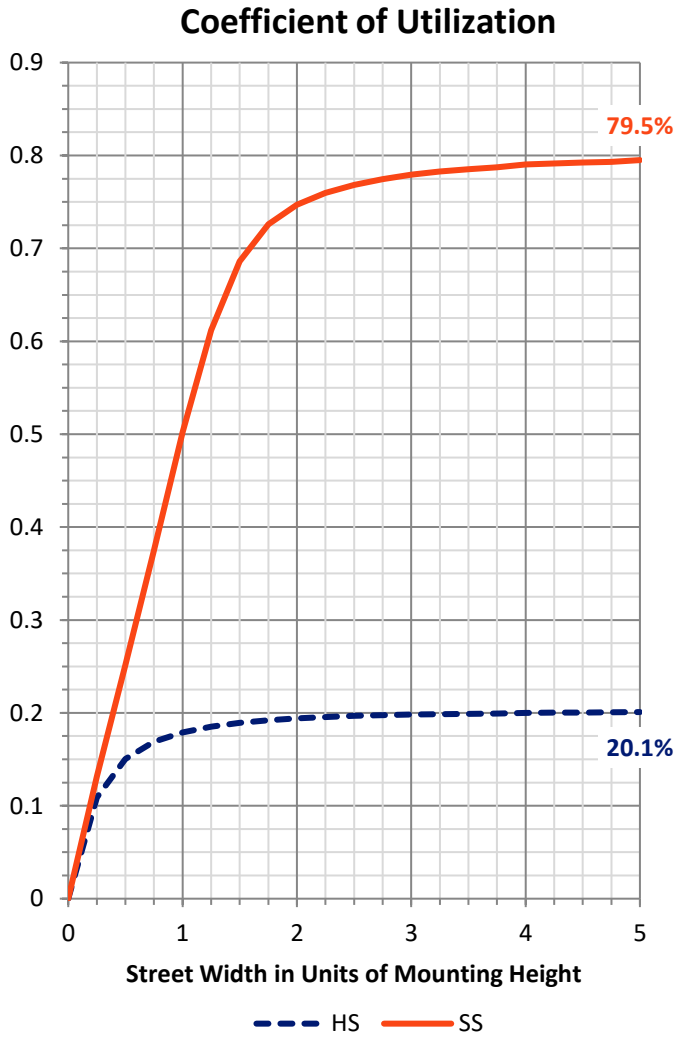
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1334.6	0.0	1334.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	5242.2	0.0	5242.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	6576.8	0.0	6576.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	1.9
10°-20°	313.5	4.8
20°-30°	430.9	6.6
30°-40°	589.0	9.0
40°-50°	892.6	13.6
50°-60°	1387.5	21.1
60°-70°	1689.3	25.7
70°-80°	1029.0	15.6
80°-90°	117.5	1.8
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°	6576.8	100.0
0°-180°	6576.8	100.0



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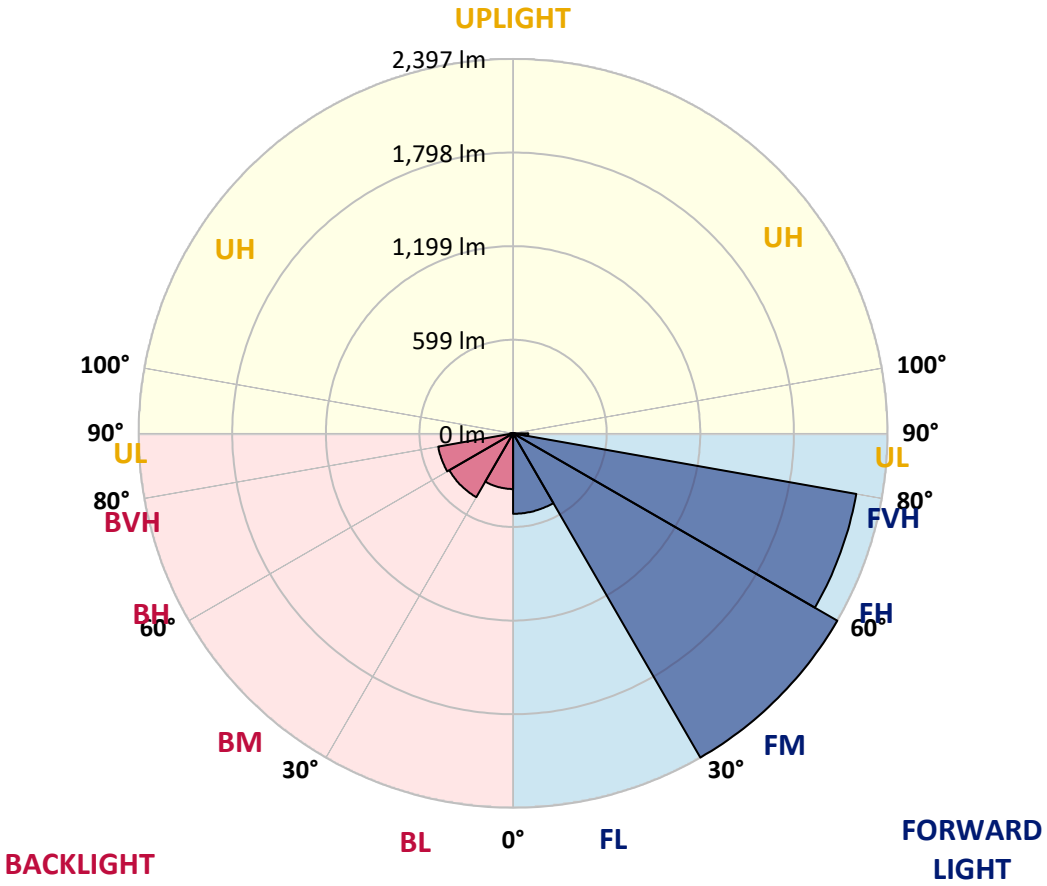
CATALOG NUMBER: GWS-SA1F-830-U-SL2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	515.3	7.8			
FM	(30°-60°)	2397.5	36.5			
FH	(60°-80°)	2231.7	33.9			G2/5000
FVH	(80°-90°)	97.7	1.5			G1/100
BL	(0°-30°)	356.5	5.4	B1/500		
BM	(30°-60°)	471.6	7.2	B1/1000		
BH	(60°-80°)	486.6	7.4	B1/500		G1/500
BVH	(80°-90°)	19.8	0.3			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 II Short



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REPORT NUMBER: P631542
CATALOG NUMBER: GWS-SA1F-830-U-SL2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	*1453.3*	1453.3	1453.3
2.5°	1361.2	1366.0	1363.1	1381.3	1382.3	1405.3	1418.3	1429.3	*1430.3*	1444.6	1454.2
5°	1268.1	1271.0	1271.0	1288.2	1299.8	1330.5	1360.2	1391.9	*1394.3*	1428.8	1455.2
7.5°	1192.8	1195.6	1193.7	1216.7	1231.6	1265.7	1303.6	1352.1	*1356.8*	1412.5	1458.6
10°	1133.7	1132.8	1137.6	1158.7	1177.9	1218.7	1260.9	1316.1	*1323.3*	1393.8	1462.4
12.5°	1093.4	1094.4	1097.3	1119.4	1140.0	1180.3	1223.9	1283.9	*1291.6*	1372.2	1460.5
15°	1074.3	1072.3	1074.7	1094.9	1114.6	1150.1	1195.2	1257.1	*1264.7*	1353.0	1461.0
17.5°	1069.9	1068.5	1068.0	1082.4	1097.3	1130.4	1173.6	1236.4	*1244.6*	1340.5	1463.8
20°	1083.4	1081.4	1076.2	1082.4	1088.6	1116.5	1158.2	1221.5	*1230.7*	1332.4	1469.6
22.5°	1120.3	1117.0	1108.8	1101.1	1093.0	1109.8	1148.6	1210.5	*1219.6*	1327.1	1475.4
25°	1176.4	1173.6	1164.9	1147.7	1117.9	1115.0	1146.7	1205.7	*1214.8*	1323.3	1477.8
27.5°	1253.7	1249.4	1240.7	1215.8	1167.3	1134.7	1153.9	1205.2	*1213.9*	1318.9	1475.4
30°	1345.3	1342.5	1337.7	1307.4	1242.7	1176.4	1170.2	1209.1	*1215.8*	1316.5	1470.6
32.5°	1438.4	1435.5	1439.4	1425.0	1345.3	1245.5	1205.7	1219.6	*1224.4*	1316.1	1466.2
35°	1520.5	1523.8	1551.6	1554.0	1475.8	1339.1	1261.8	1244.1	*1245.1*	1325.7	1468.2
37.5°	1606.3	1619.3	1655.8	1686.9	1621.7	1462.9	1345.3	1290.2	*1289.2*	1350.1	1480.2
40°	1720.0	1725.8	1772.3	1830.9	1790.1	1632.7	1463.8	1365.5	*1358.8*	1400.0	1512.3
42.5°	1830.9	1844.8	1919.2	1986.3	1972.9	1824.2	1613.1	1478.2	*1466.2*	1488.3	1578.5
45°	1971.9	1985.4	2068.9	2155.2	2179.7	2040.5	1804.0	1638.5	*1626.5*	1621.2	1699.9
47.5°	2113.0	2126.9	2201.8	2326.5	2412.4	2311.2	2052.5	1850.1	*1830.4*	1809.8	1883.2
50°	2208.0	2224.3	2295.8	2445.5	2647.0	2648.9	2347.1	2127.4	*2102.4*	2069.8	2141.3
52.5°	2204.6	2215.2	2283.3	2456.0	2815.9	3037.1	2741.5	2480.5	*2460.4*	2389.4	2451.7
55°	2031.4	2047.3	2115.9	2331.8	2834.1	3405.1	3321.1	2897.0	*2861.0*	2733.8	2802.5
57.5°	1683.6	1697.0	1766.1	2032.4	2672.4	3593.6	4057.1	3427.6	*3378.2*	3109.0	3188.2
60°	1271.0	1254.7	1287.3	1520.5	2285.7	3598.4	4706.7	4147.3	*4064.8*	3510.1	3576.4
62.5°	953.8	937.5	944.7	1010.4	1549.7	3307.7	5077.1	5131.8	*4995.6*	3963.1	3950.1
65°	753.8	744.6	765.3	810.4	903.4	2518.9	5080.0	6196.5	*6110.6*	4488.0	4333.5
67.5°	*614.1*	*608.4*	*629.5*	*713.0*	*732.6*	*1353.5*	*4555.1*	*6693.6*	*6727.1*	*5062.8*	*4689.0*
70°	494.7	486.0	519.1	629.0	681.3	819.0	3263.1	6440.2	*6494.4*	5405.3	4588.7
72.5°	341.6	342.1	358.9	509.5	657.8	707.2	1845.8	5362.6	*5480.2*	5094.9	4034.1
75°	230.3	232.2	237.0	336.3	606.0	686.1	983.6	4060.0	*4143.0*	4211.1	3334.5
77.5°	139.1	140.1	151.1	203.4	417.9	640.5	666.4	2943.0	*3008.3*	2776.1	2066.9
80°	80.6	84.0	94.0	136.3	282.1	481.2	515.8	1804.5	*1878.4*	1234.0	656.8
82.5°	35.5	37.9	51.3	79.2	164.6	409.3	402.5	713.0	*702.4*	344.0	227.9
85°	6.2	7.7	11.0	24.9	60.5	215.9	312.3	314.7	*296.0*	130.5	94.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	47.0	84.4	*84.0*	36.9	32.6
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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Scaled Data Report

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CATALOG NUMBER: GWS-SA1F-830-U-SL2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3
2.5°	1460.5	1447.5	1459.0	1460.5	1458.1	1456.2	1441.8	1429.3	1427.9	1414.4	1414.4
5°	1465.8	1453.8	1459.5	1448.5	1431.2	1413.5	1382.8	1361.6	1352.1	1334.8	1334.8
7.5°	1473.0	1460.5	1453.8	1426.4	1386.1	1347.3	1297.8	1256.6	1239.8	1215.3	1214.4
10°	1479.7	1463.8	1440.8	1387.6	1323.3	1261.4	1189.4	1130.9	1091.0	1061.8	1061.8
12.5°	1479.2	1458.6	1413.0	1334.3	1245.5	1155.8	1059.9	971.6	918.8	873.2	870.3
15°	1478.2	1449.9	1377.5	1272.4	1154.9	1030.6	900.1	784.9	706.7	662.1	658.3
17.5°	1477.3	1438.9	1337.7	1201.9	1044.5	875.1	702.9	578.1	512.9	485.5	486.5
20°	1477.3	1426.4	1295.0	1120.8	917.4	689.0	515.8	425.1	408.8	410.2	411.7
22.5°	1473.0	1411.1	1247.5	1032.5	775.8	506.7	380.5	349.8	358.4	371.8	373.8
25°	1462.9	1385.6	1192.3	934.6	607.4	369.0	310.4	304.7	320.5	337.3	342.1
27.5°	1447.0	1356.4	1130.4	820.0	447.2	296.5	273.0	272.5	285.0	297.5	301.8
30°	1430.3	1323.7	1065.1	692.3	323.9	258.1	249.0	249.0	255.2	262.9	262.0
32.5°	1410.6	1290.6	995.1	559.4	263.9	236.5	233.7	232.2	233.2	236.1	236.1
35°	1393.8	1261.4	923.1	418.9	236.5	224.5	221.7	218.3	216.9	214.9	215.9
37.5°	1387.6	1238.3	848.7	315.7	223.1	215.9	211.1	206.3	203.0	202.0	201.5
40°	1397.6	1228.7	774.4	260.0	213.5	206.8	201.5	195.3	192.4	192.4	192.4
42.5°	1437.0	1235.9	698.6	235.1	206.8	199.1	191.4	185.7	184.7	185.7	186.2
45°	1508.9	1263.8	619.9	222.6	201.0	191.4	182.3	178.0	178.0	179.0	179.0
47.5°	1637.5	1336.7	542.2	214.9	195.3	185.2	175.6	171.3	170.8	171.8	171.8
50°	1860.1	1468.2	472.1	209.7	191.0	180.4	170.8	165.0	163.6	163.1	163.1
52.5°	2140.8	1696.1	427.5	205.8	185.7	175.1	165.5	157.9	155.0	153.5	153.5
55°	2480.0	1999.8	427.5	203.0	179.0	168.9	157.9	150.2	145.9	143.9	143.9
57.5°	2864.4	2353.4	501.4	200.6	173.7	161.7	149.7	142.0	137.2	134.3	134.3
60°	3255.4	2727.1	684.2	197.2	168.9	152.6	140.6	133.4	127.1	123.8	123.3
62.5°	3660.8	3138.8	925.0	199.1	165.5	143.9	131.0	122.8	117.5	114.2	113.7
65°	4032.2	3530.8	1135.7	214.0	166.0	136.3	119.9	112.8	108.4	104.1	103.6
67.5°	*4347.4*	*3747.2*	*987.9*	*244.2*	*176.1*	*127.1*	*108.9*	*101.7*	*97.9*	*95.0*	*94.5*
70°	4126.7	3417.1	560.4	262.9	190.0	117.5	96.4	91.6	87.8	85.9	85.4
72.5°	3528.9	2893.1	374.7	232.2	173.2	105.1	84.9	81.1	78.2	75.8	75.3
75°	2858.6	2294.4	286.4	190.5	134.8	85.4	72.9	70.0	67.2	64.8	64.3
77.5°	1691.3	1325.7	211.1	150.7	95.0	66.7	60.5	58.1	55.2	53.3	52.8
80°	539.8	460.6	133.9	103.6	62.9	51.3	46.5	44.6	41.7	39.3	38.9
82.5°	205.8	178.0	71.0	52.8	41.7	35.0	31.2	29.3	27.3	24.9	24.5
85°	91.2	85.4	39.3	28.3	22.6	17.3	15.4	14.4	12.0	10.1	9.6
87.5°	32.1	32.1	16.8	8.2	4.8	2.4	1.4	0.5	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

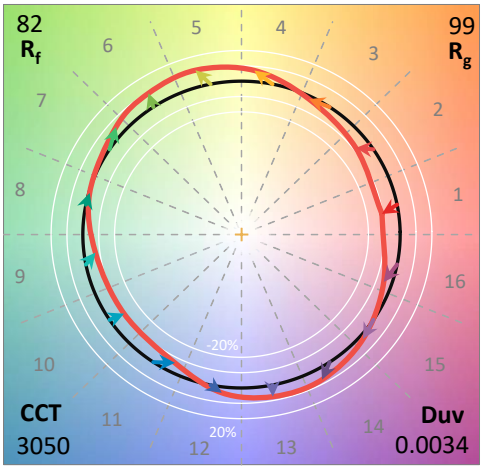
Test Information

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

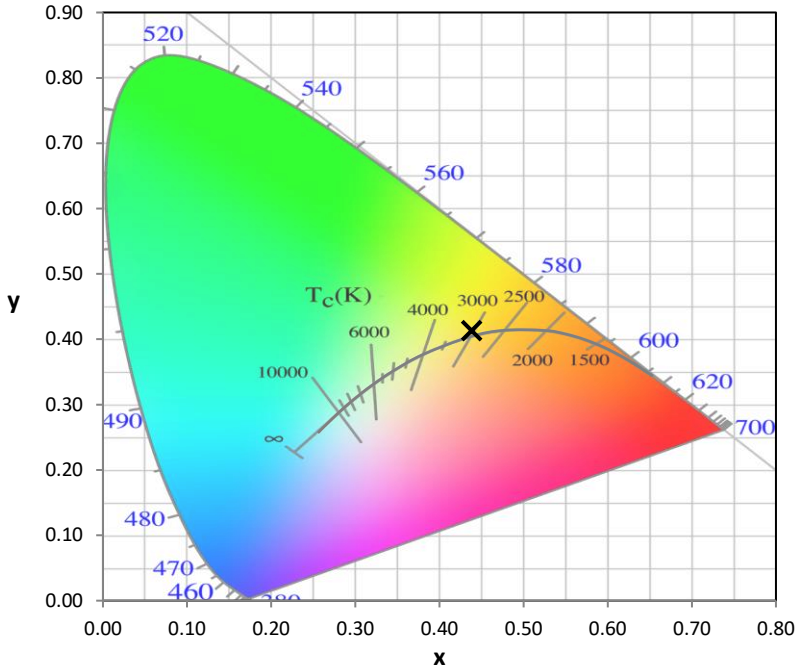
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

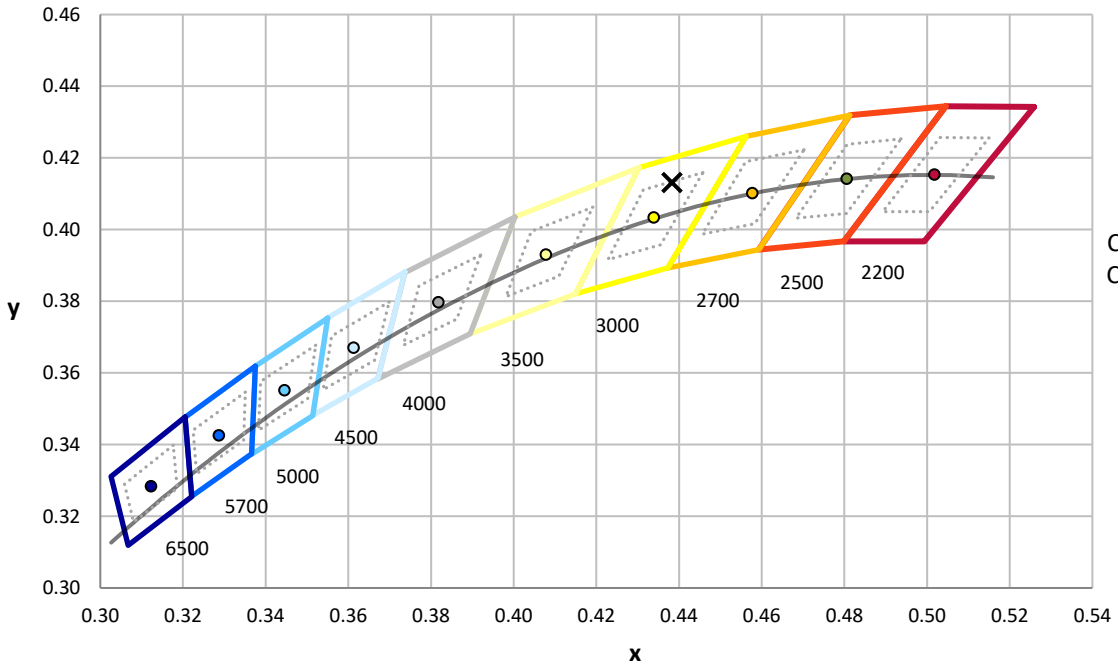
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

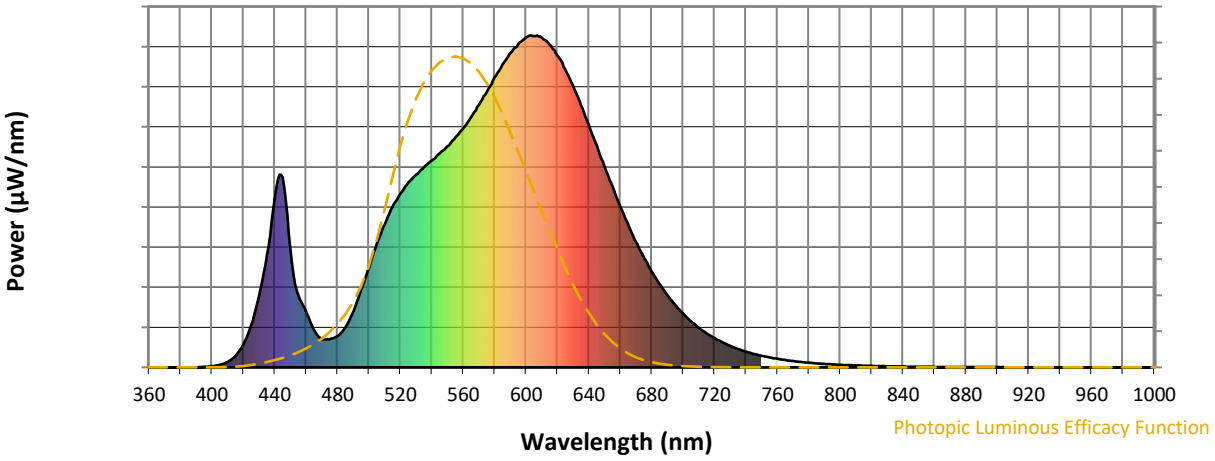


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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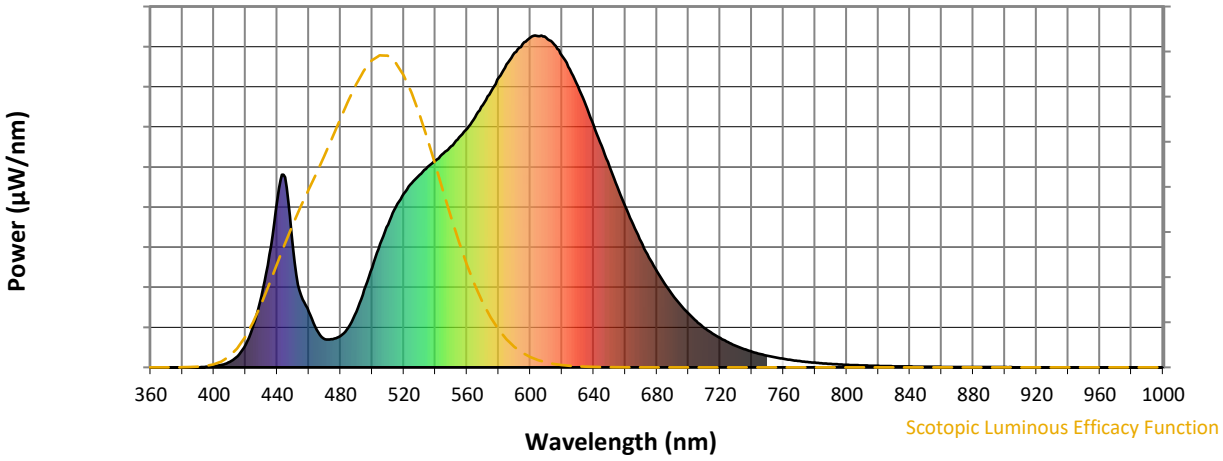
Scotopic Flux vs. Wavelength



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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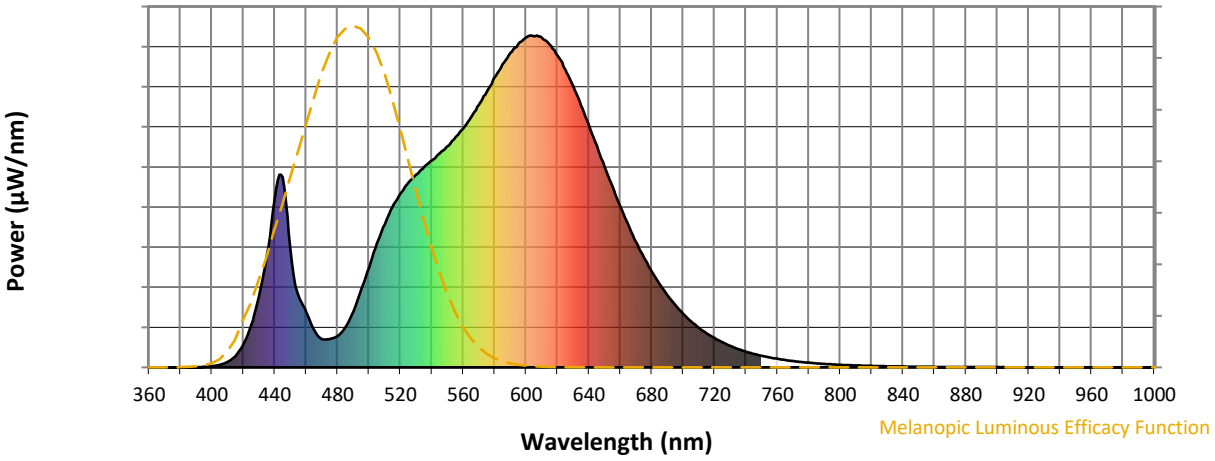
Melanopic Flux vs. Wavelength



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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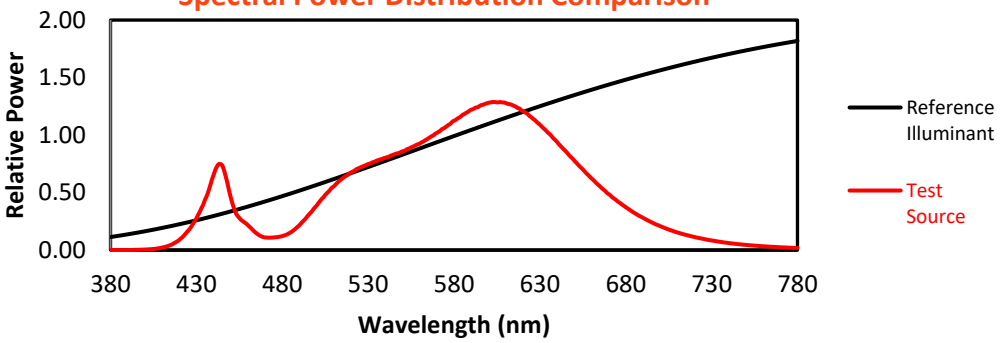
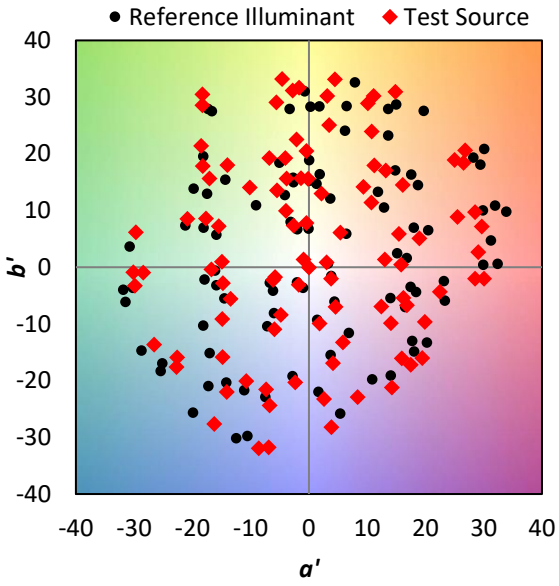
Summary

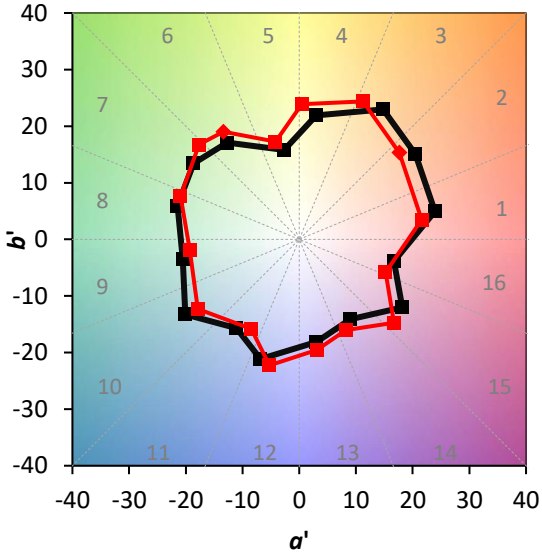
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

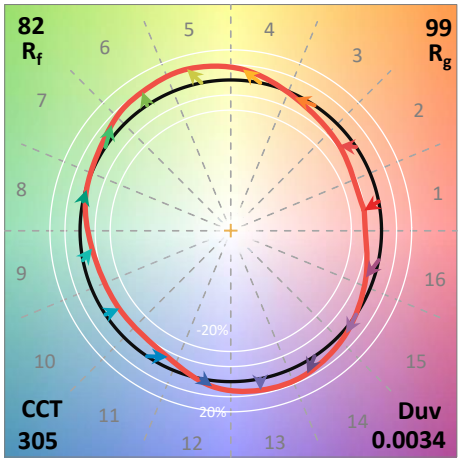
Spectral Power Distribution Comparison

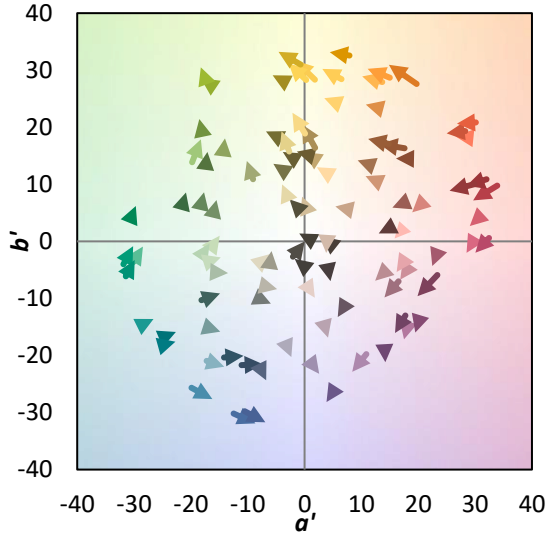


Color Vector Graphics









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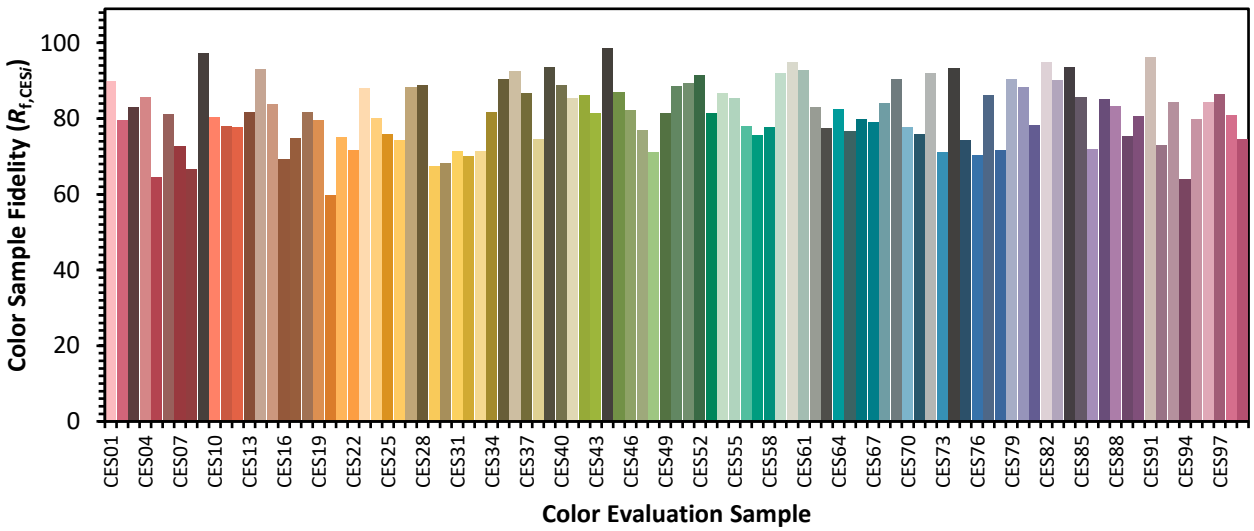
Individual Sample Fidelity Index ($R_{f,i}$)

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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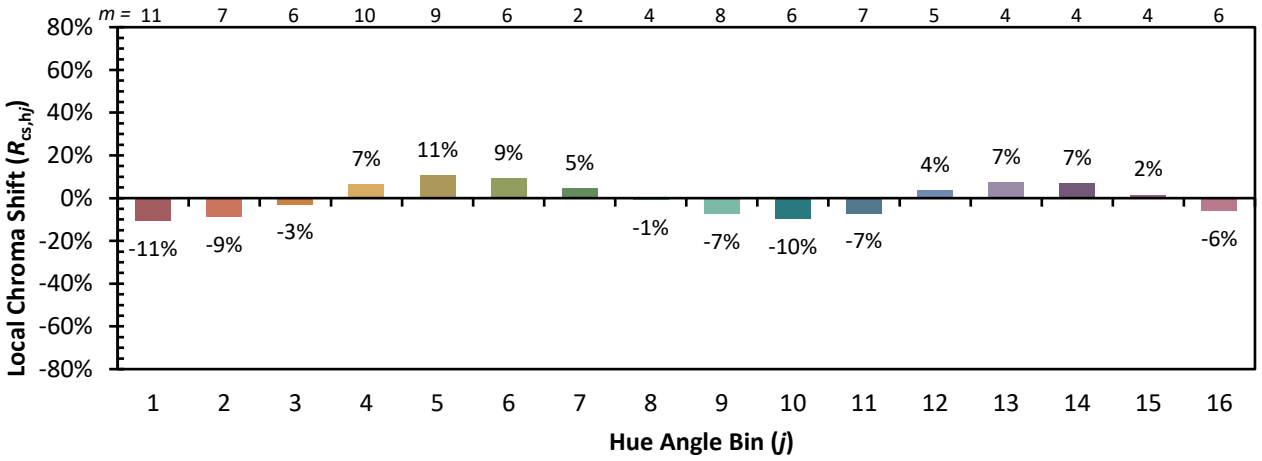
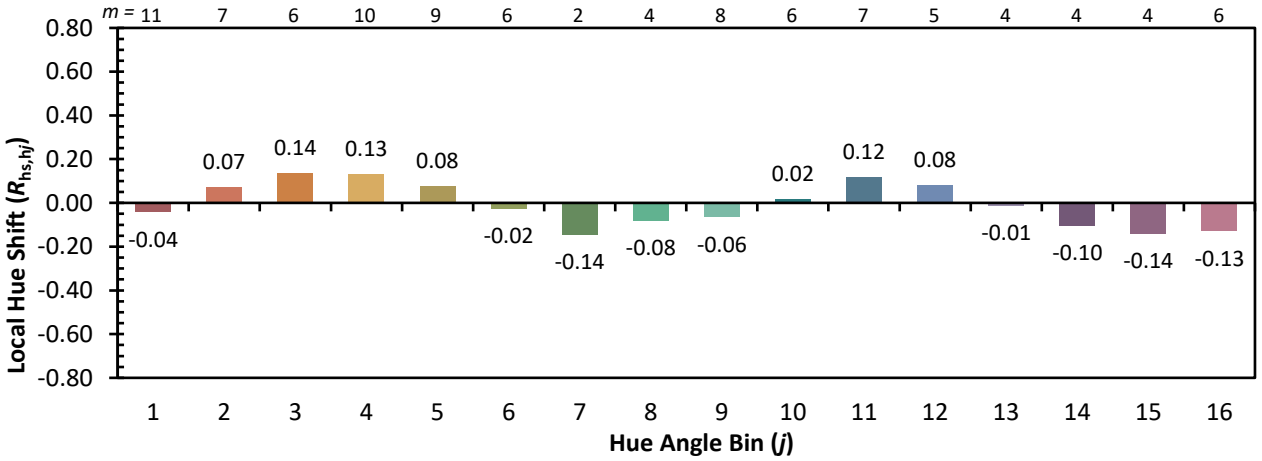
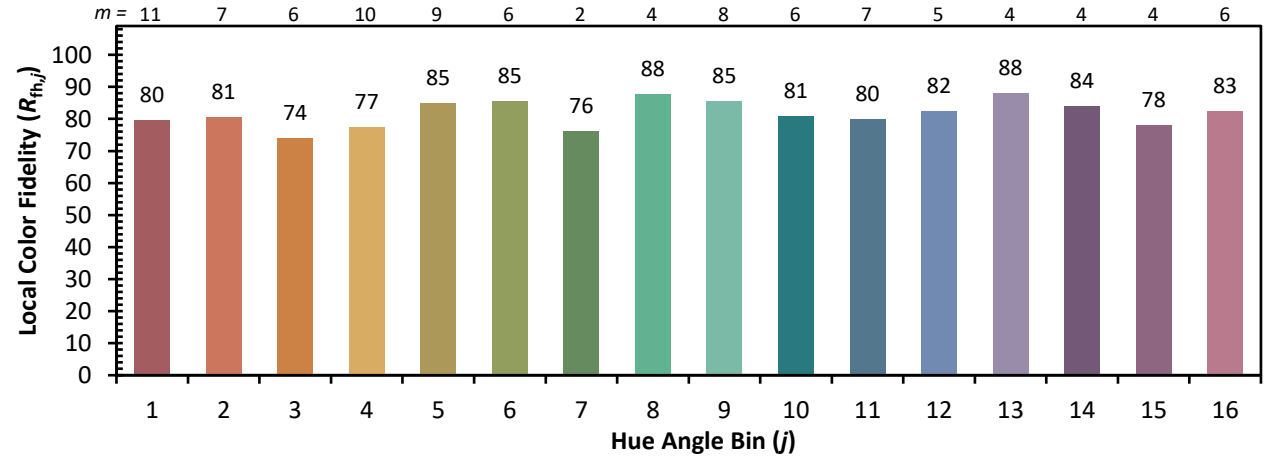
Color Rendition by Hue-Angle Bin







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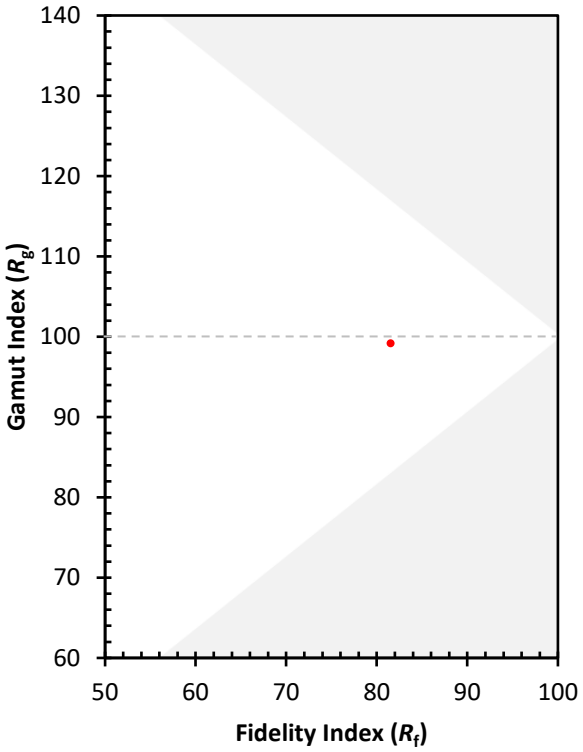
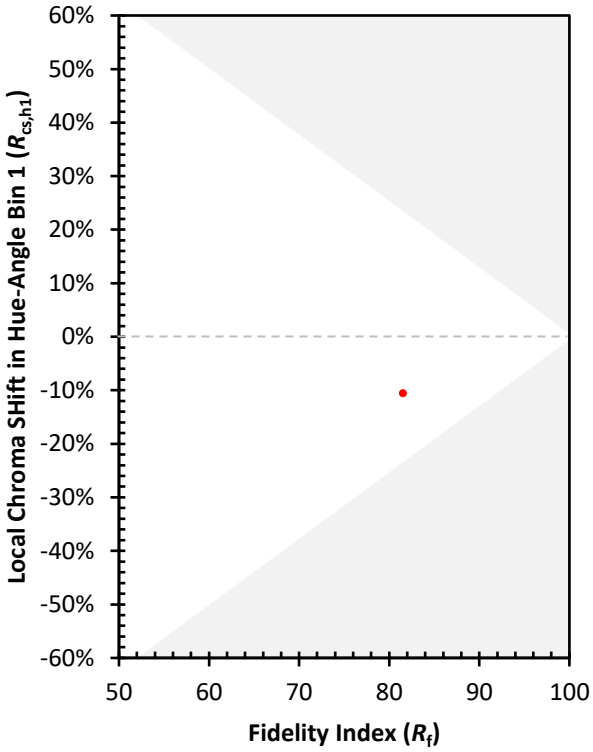
Measure Comparisons





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