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: P634545

Luminaire Tested: GWS-SA3B-830-U-T4FT-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:	P634545
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3B-830-U-T4FT-W
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7981.1 lumens
Efficiency:	N/A
Efficacy:	116.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - 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

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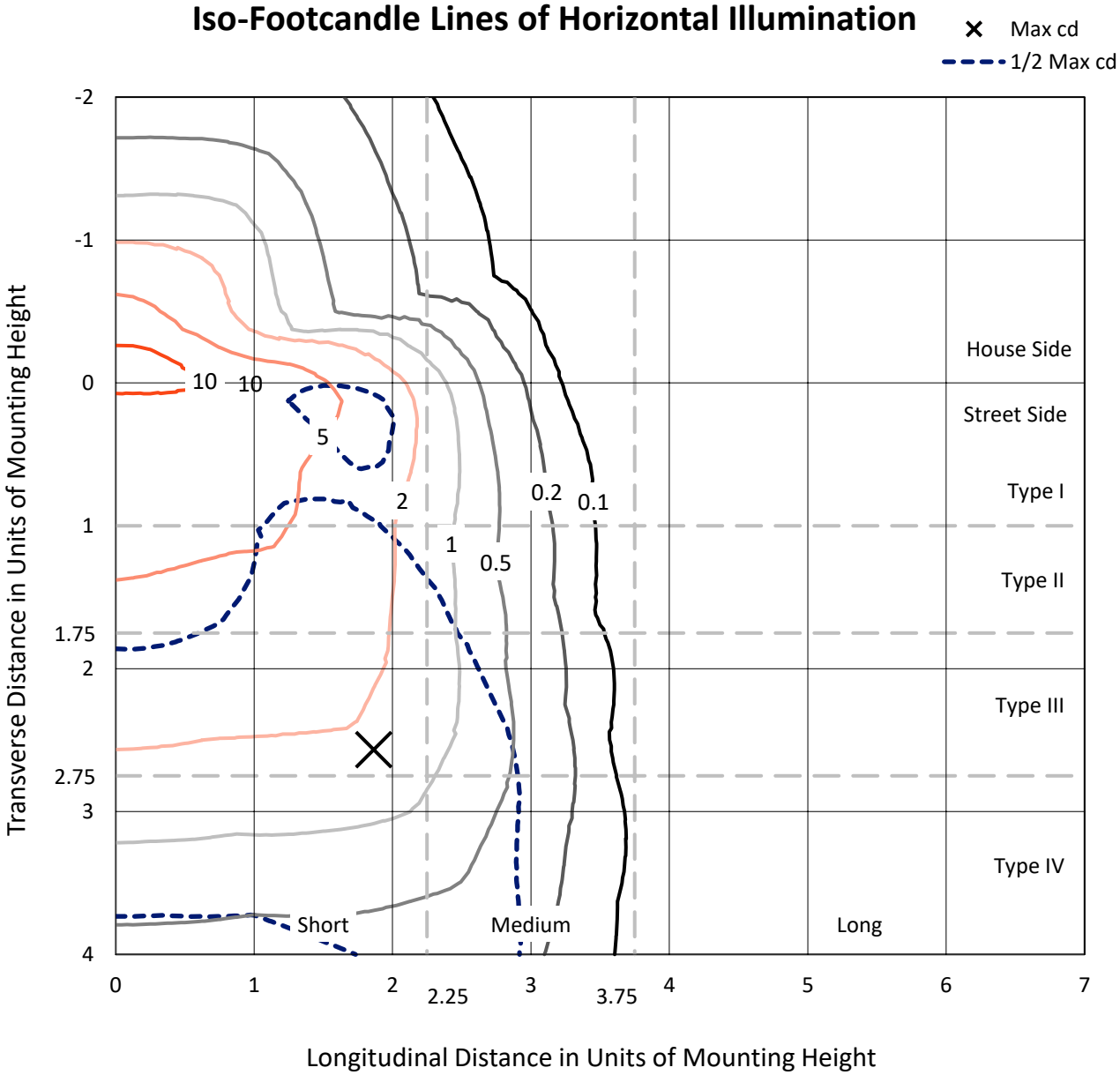
Scaled Data Report

REPORT NUMBER: P634545
CATALOG NUMBER: GWS-SA3B-830-U-T4FT-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
Type IV - Short - N/A

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REPORT NUMBER: P634545
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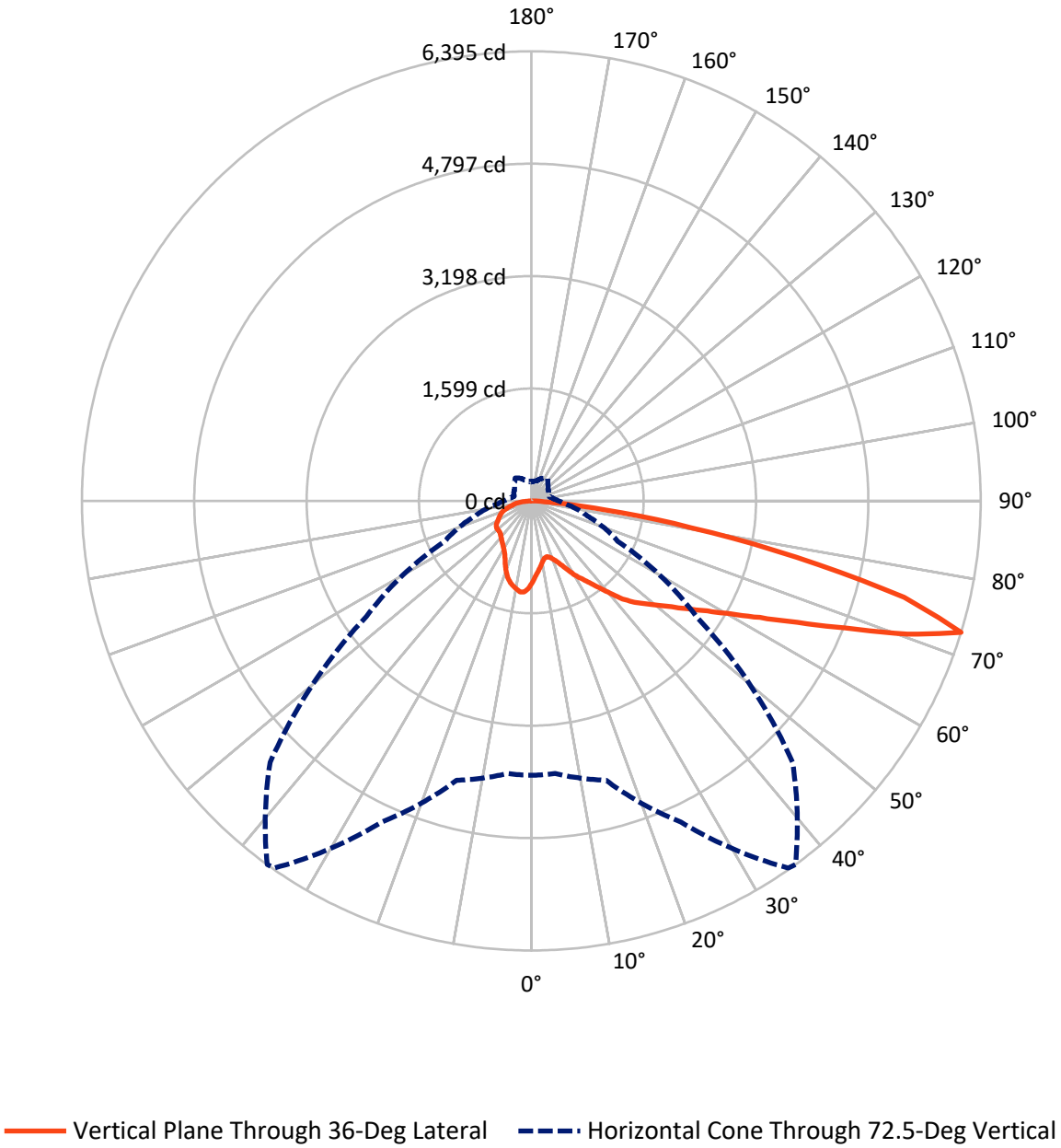
Luminous Intensity Polar Plot



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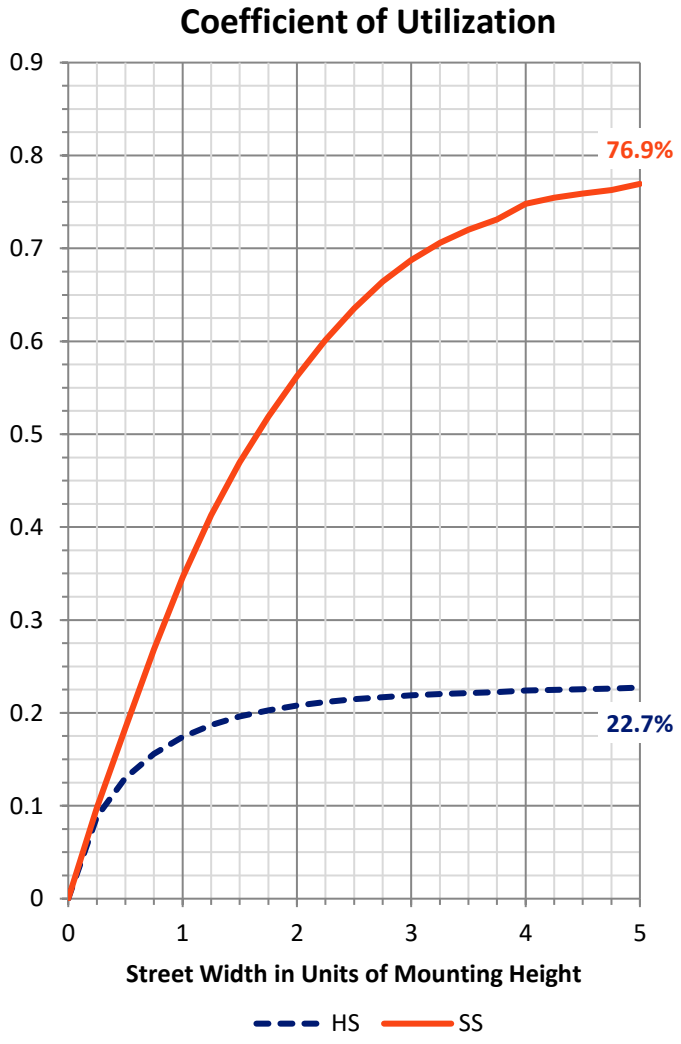
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1840.0	0.0	1840.0
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	6141.1	0.0	6141.1
	% Fixture	76.9	0.0	76.9
Total	Lumens	7981.1	0.0	7981.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	1.4
10°-20°	308.0	3.9
20°-30°	510.2	6.4
30°-40°	764.0	9.6
40°-50°	1114.6	14.0
50°-60°	1586.5	19.9
60°-70°	2004.4	25.1
70°-80°	1428.3	17.9
80°-90°	155.9	2.0
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°	7981.1	100.0
0°-180°	7981.1	100.0



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REPORT NUMBER: P634545
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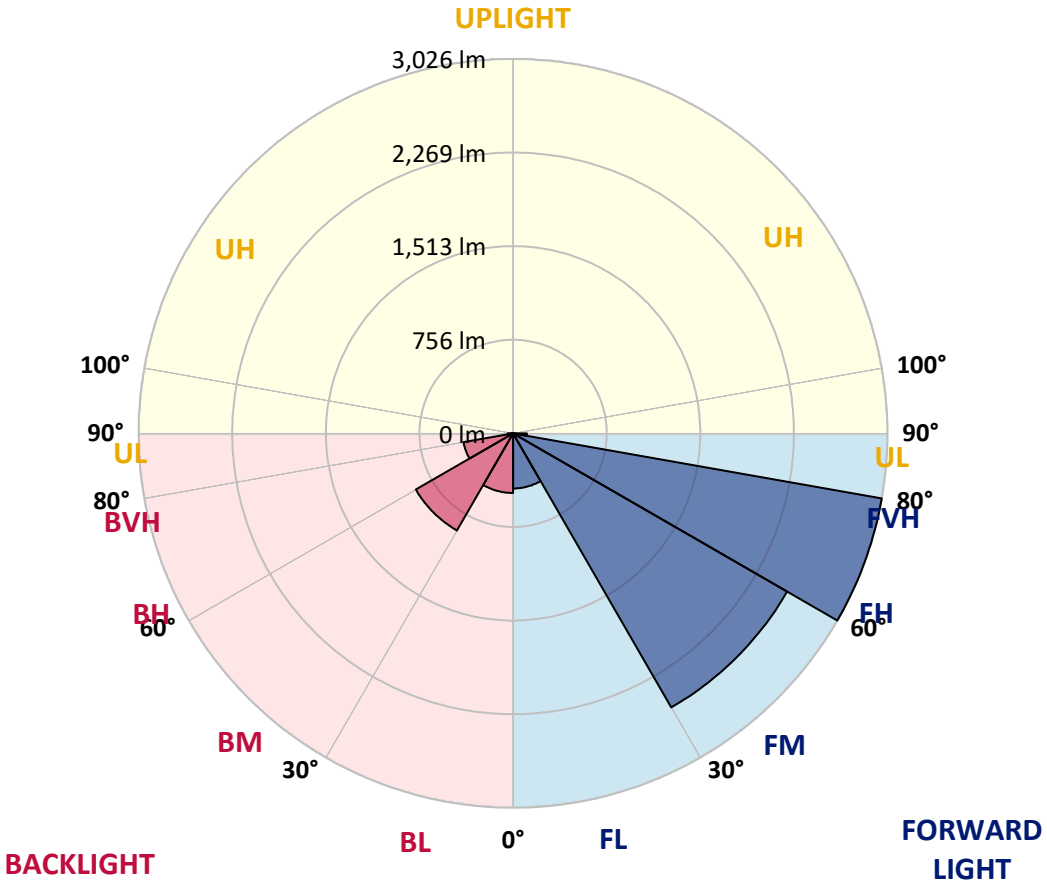
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	445.6	5.6			
FM	(30°-60°)	2557.7	32.0			
FH	(60°-80°)	3025.9	37.9			G2/5000
FVH	(80°-90°)	111.9	1.4			G2/225
BL	(0°-30°)	481.8	6.0	B1/500		
BM	(30°-60°)	907.4	11.4	B1/1000		
BH	(60°-80°)	406.8	5.1	B1/500		G1/500
BVH	(80°-90°)	44.0	0.6			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 IV Short



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Scaled Data Report

REPORT NUMBER: P634545
CATALOG NUMBER: GWS-SA3B-830-U-T4FT-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1
2.5°	1065.6	1063.8	1060.3	1070.9	1081.6	1080.4	1095.2	1109.4	1124.8	1140.8	1162.1
5°	980.3	979.1	976.2	992.1	1008.1	1007.5	1031.8	1054.9	1086.3	1120.7	1163.3
7.5°	895.0	892.0	896.2	916.3	938.8	941.2	974.4	1012.3	1057.9	1109.4	1169.8
10°	819.8	819.2	821.0	843.5	877.2	879.6	922.3	975.0	1035.4	1104.1	1184.7
12.5°	800.2	799.0	794.3	805.6	831.0	834.6	881.4	945.9	1020.0	1107.1	1204.8
15°	832.2	829.3	812.7	807.3	819.8	822.7	862.4	928.8	1011.1	1112.4	1230.3
17.5°	887.3	885.5	854.1	832.2	840.5	842.9	872.5	925.8	1008.7	1123.1	1261.7
20°	967.9	960.2	911.0	877.8	877.8	881.4	899.2	938.8	1011.7	1136.1	1297.2
22.5°	1074.5	1059.1	989.8	944.8	932.9	937.7	945.4	971.4	1024.1	1158.0	1341.6
25°	1194.1	1179.9	1097.6	1034.2	1017.6	1019.4	1012.9	1017.6	1051.4	1188.2	1396.7
27.5°	1321.5	1312.0	1224.3	1143.8	1117.7	1117.7	1094.6	1083.4	1089.3	1222.6	1458.3
30°	1435.2	1422.2	1348.1	1259.9	1225.5	1225.5	1181.7	1157.4	1143.2	1264.6	1540.6
32.5°	1495.0	1487.3	1438.2	1370.6	1328.6	1322.1	1284.2	1255.7	1222.6	1326.8	1652.0
35°	1573.2	1571.4	1541.8	1489.1	1435.8	1426.3	1400.3	1377.8	1320.3	1404.4	1800.1
37.5°	1671.5	1668.6	1663.8	1632.5	1568.5	1566.7	1543.6	1516.4	1441.7	1516.4	1979.6
40°	1781.7	1776.4	1770.5	1769.9	1731.4	1724.9	1723.1	1692.3	1588.0	1651.4	2166.7
42.5°	1933.4	1915.0	1859.3	1884.2	1912.6	1906.7	1929.2	1883.0	1770.5	1811.9	2343.8
45°	2119.9	2074.9	1964.8	1971.9	2043.5	2055.4	2133.6	2122.3	1971.3	1997.3	2530.4
47.5°	2231.9	2192.8	2090.3	2084.4	2173.8	2188.6	2358.6	2380.0	2187.5	2220.6	2760.8
50°	2323.7	2296.5	2212.3	2220.6	2315.4	2330.2	2582.0	2627.6	2391.2	2449.3	3028.6
52.5°	2434.5	2395.4	2330.2	2369.3	2485.4	2503.2	2830.1	2879.3	2574.8	2700.4	3305.8
55°	2496.7	2480.7	2481.9	2541.7	2687.4	2711.7	3090.2	3081.9	2743.1	2915.4	3514.3
57.5°	2640.0	2634.1	2688.6	2711.1	2923.1	2954.5	3350.2	3279.1	2895.9	3081.9	3614.4
60°	2892.9	2878.1	2925.5	2959.9	3214.6	3259.0	3640.4	3472.2	2999.5	3205.7	3580.6
62.5°	3248.3	3230.0	3231.7	3286.2	3604.9	3651.7	3963.3	3633.3	3031.5	3224.6	3366.8
65°	3690.2	3663.5	3633.3	3707.4	4123.2	4162.3	4314.5	3750.6	2955.1	3042.2	2920.2
67.5°	4156.4	4134.4	4098.9	4254.1	4794.3	4818.0	4708.4	3740.5	2712.9	2554.1	2048.3
70°	4183.6	4188.9	4357.2	4918.7	5670.4	5676.3	5081.0	3538.0	2196.9	1655.6	1020.6
72.5°	3902.8	3894.0	4113.1	5040.1	6375.2	6395.4	5256.9	2866.3	1357.6	825.7	478.6
75°	3170.1	3185.5	3416.0	4409.9	5464.2	5482.0	4285.5	1689.9	645.0	404.0	306.2
77.5°	1364.7	1450.6	1904.9	3106.8	3913.5	3858.4	2208.8	684.7	344.1	287.9	234.6
80°	393.9	427.7	678.8	1477.3	2345.0	2303.6	874.3	256.5	239.9	216.2	168.2
82.5°	127.4	141.0	248.8	588.2	1050.8	1049.6	331.7	151.6	157.0	146.9	108.4
85°	35.5	40.9	76.4	178.3	325.2	318.7	96.0	71.7	83.5	84.7	53.9
87.5°	0.0	0.0	0.6	1.2	1.2	1.2	2.4	10.7	24.3	30.8	21.9
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

REPORT NUMBER: P634545
CATALOG NUMBER: GWS-SA3B-830-U-T4FT-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1
2.5°	1175.2	1173.4	1197.7	1216.6	1234.4	1246.3	1249.8	1252.2	1256.9	1259.3	1256.9
5°	1183.5	1192.4	1232.6	1262.2	1285.9	1300.2	1300.8	1299.6	1303.1	1300.2	1298.4
7.5°	1201.2	1218.4	1269.4	1300.8	1316.2	1316.7	1302.5	1285.9	1277.7	1270.5	1268.2
10°	1224.9	1250.4	1306.1	1326.8	1322.1	1300.2	1268.8	1242.7	1227.9	1217.2	1214.9
12.5°	1257.5	1285.9	1338.7	1338.1	1308.5	1269.4	1232.6	1201.2	1179.9	1167.5	1163.3
15°	1288.3	1324.4	1362.4	1334.5	1287.7	1240.3	1192.9	1150.9	1122.5	1102.9	1099.4
17.5°	1326.2	1364.7	1379.5	1323.3	1261.7	1200.6	1137.3	1082.2	1043.7	1020.6	1018.8
20°	1370.1	1404.4	1387.8	1303.7	1227.9	1147.9	1062.0	1000.4	959.0	936.5	938.2
22.5°	1421.0	1445.9	1390.2	1277.1	1181.1	1073.3	977.3	918.1	890.3	878.4	879.0
25°	1475.5	1491.5	1386.0	1240.9	1109.4	982.1	890.3	863.0	860.7	857.7	858.9
27.5°	1540.1	1536.5	1373.6	1190.0	1012.9	876.1	829.3	836.4	845.8	844.7	845.8
30°	1626.5	1592.8	1357.6	1119.5	898.0	787.2	793.1	813.3	825.7	826.9	830.4
32.5°	1725.4	1655.0	1332.1	1023.5	788.4	737.4	759.4	783.6	798.5	801.4	806.2
35°	1843.3	1726.0	1287.1	903.9	709.6	707.8	728.0	744.6	760.5	761.7	761.7
37.5°	1979.0	1797.1	1215.5	771.8	661.0	682.4	701.3	704.9	709.0	705.5	707.2
40°	2103.4	1865.8	1113.6	651.6	621.4	659.9	675.8	664.0	651.0	642.1	643.9
42.5°	2207.6	1912.6	978.5	567.4	581.1	639.7	652.2	627.9	602.4	585.8	588.2
45°	2324.9	1955.9	819.8	510.6	546.7	625.5	633.8	602.4	569.8	544.9	541.4
47.5°	2486.6	2044.1	678.8	470.9	522.4	617.8	631.4	588.8	546.1	508.8	504.7
50°	2686.2	2169.1	560.9	444.8	511.2	613.7	630.8	574.0	523.0	479.2	476.2
52.5°	2904.2	2291.1	473.9	424.7	499.9	601.2	627.9	557.4	498.7	451.4	447.8
55°	3049.3	2339.1	415.2	405.7	481.6	581.7	616.0	541.4	462.0	418.8	413.4
57.5°	3091.9	2277.5	374.4	388.6	457.9	554.4	593.5	507.6	439.5	405.2	401.0
60°	3018.5	2122.3	348.9	374.4	431.8	519.5	554.4	488.1	421.7	390.9	388.0
62.5°	2811.2	1883.0	329.3	359.5	405.2	482.7	529.5	464.4	402.2	377.9	373.8
65°	2394.2	1544.2	313.3	344.1	379.7	447.8	502.3	440.7	380.9	362.5	357.8
67.5°	1674.5	1084.6	296.2	325.8	354.2	414.0	473.9	418.8	359.0	345.3	340.6
70°	818.6	575.1	275.4	304.5	327.0	379.7	445.4	392.1	329.9	322.2	315.7
72.5°	*389.8*	*321.6*	*251.1*	*275.4*	*289.6*	*334.1*	*398.0*	*353.6*	*295.6*	*279.0*	*267.7*
75°	261.2	228.6	219.2	241.1	244.6	280.2	341.2	305.0	260.6	241.7	232.2
77.5°	197.8	174.7	184.2	203.8	196.7	230.4	280.8	271.9	235.2	218.0	213.2
80°	139.2	127.4	146.3	158.2	152.8	196.1	252.9	232.8	193.7	174.7	171.2
82.5°	87.7	85.3	107.8	109.6	111.4	155.2	207.9	183.0	150.5	123.8	114.9
85°	43.8	48.6	64.6	64.6	64.0	80.0	118.5	103.1	81.1	64.6	62.8
87.5°	14.8	20.7	27.8	22.5	17.2	13.6	15.4	19.0	20.1	19.5	19.5
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

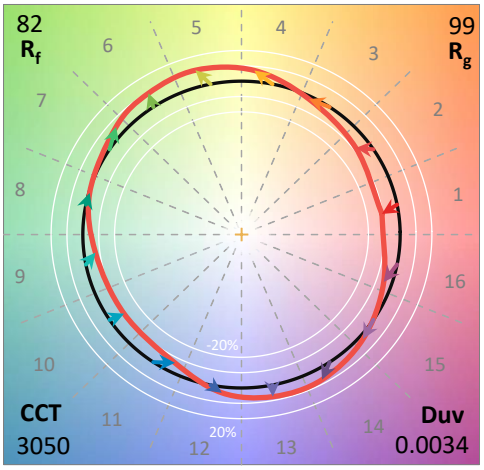
Test Information

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

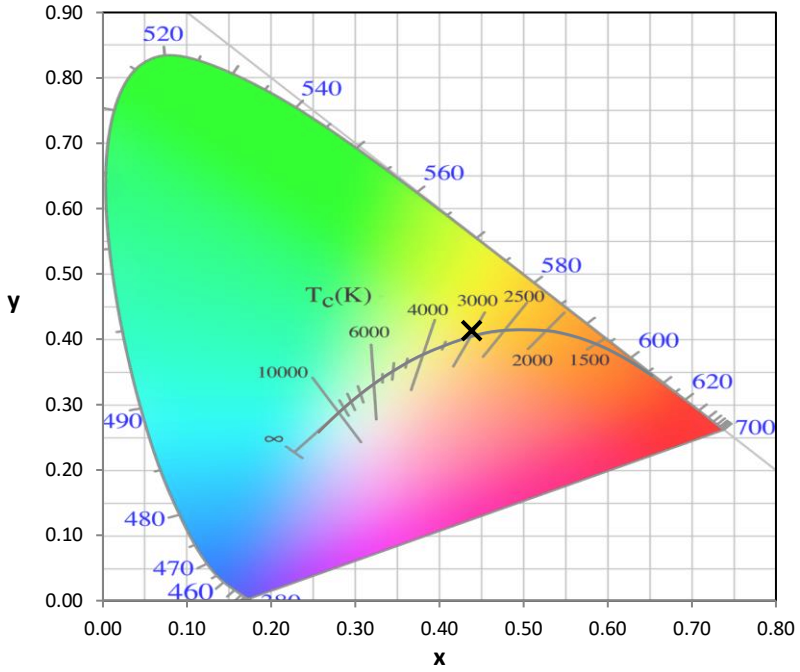
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

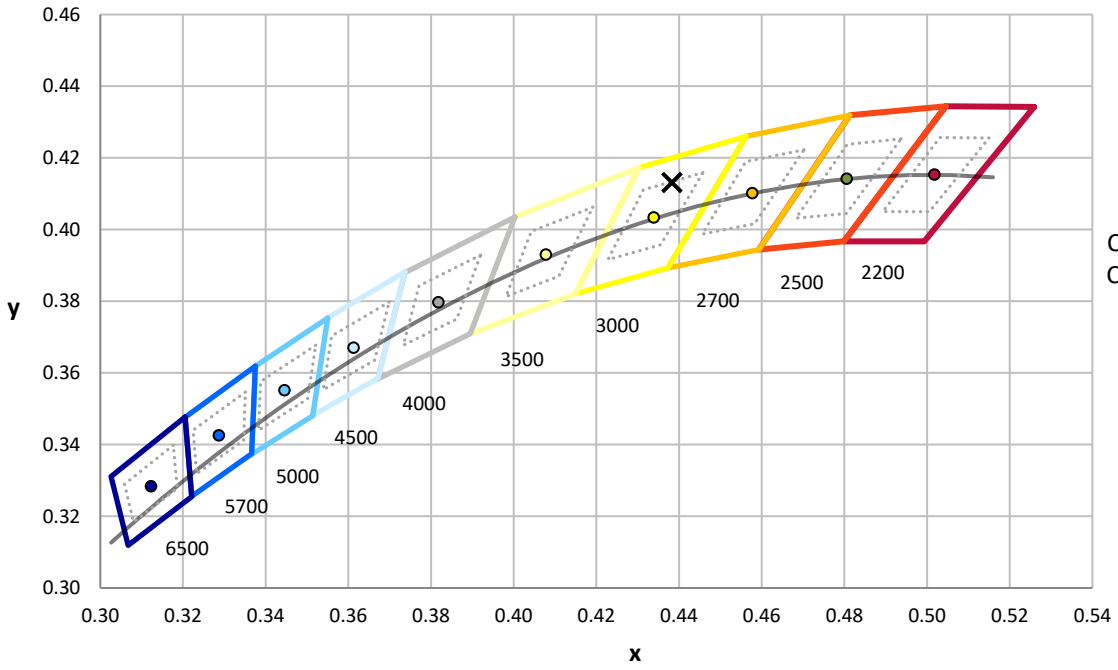
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

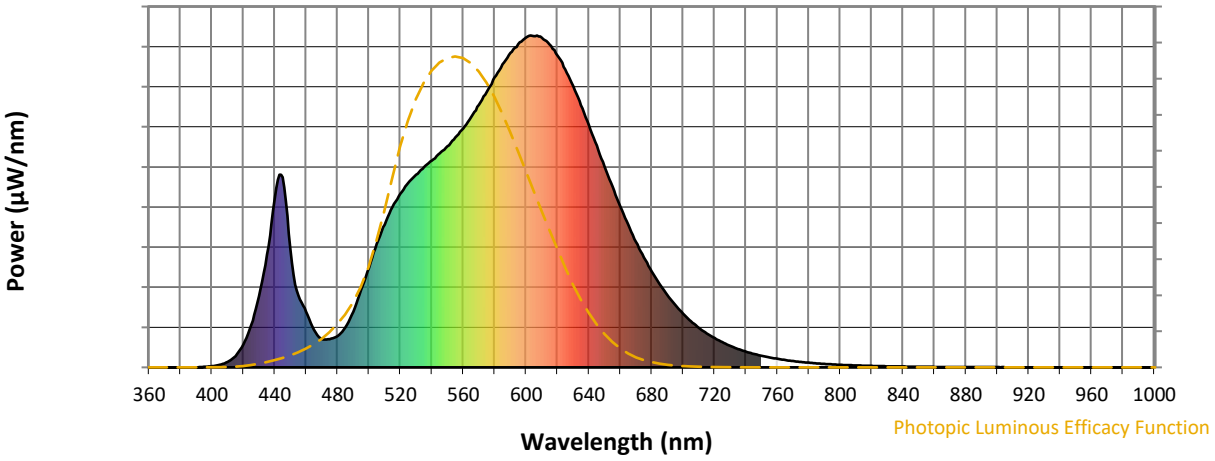


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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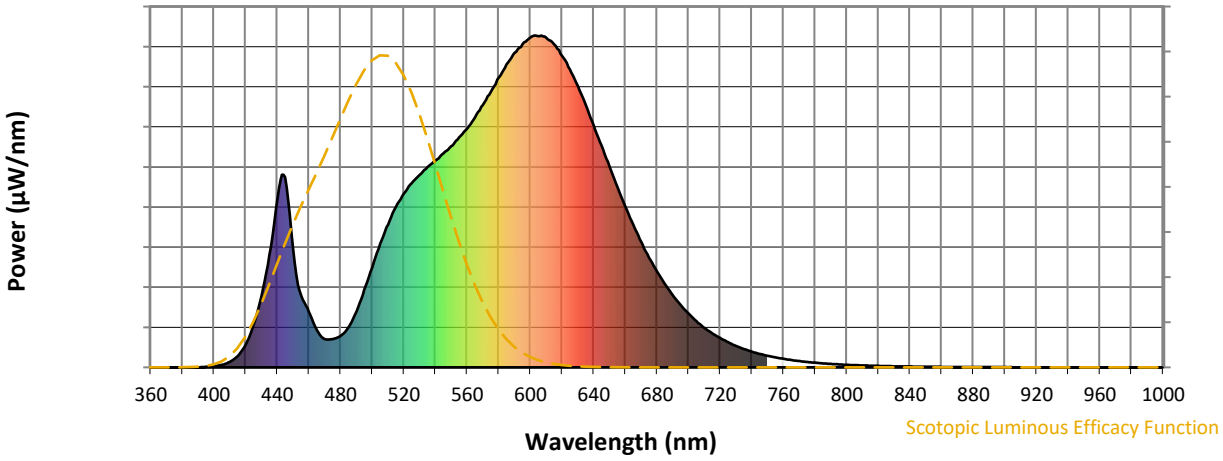
Scotopic Flux vs. Wavelength



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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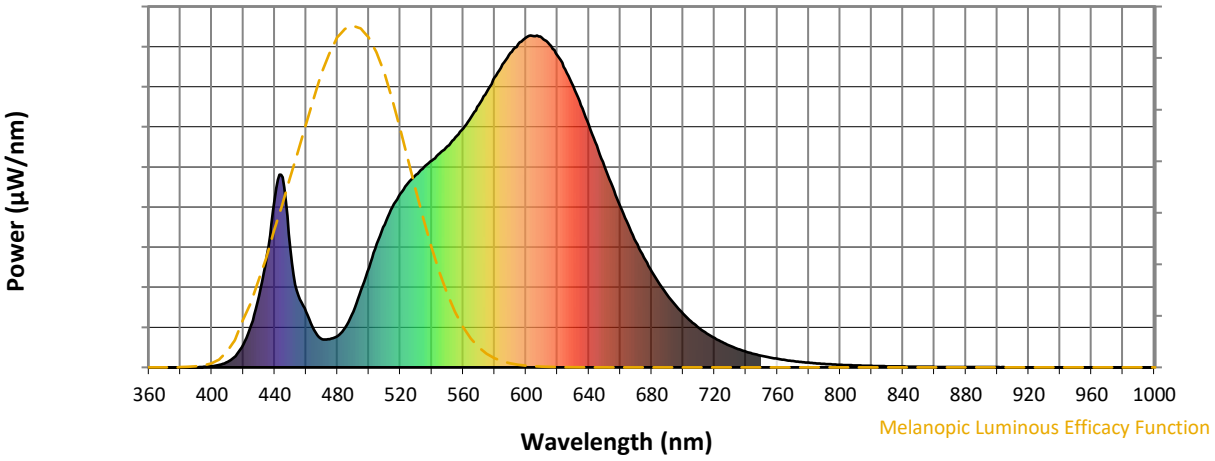
Melanopic Flux vs. Wavelength



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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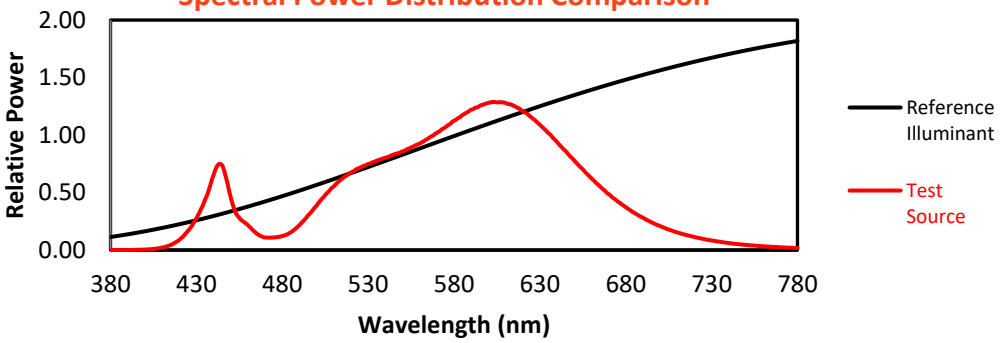
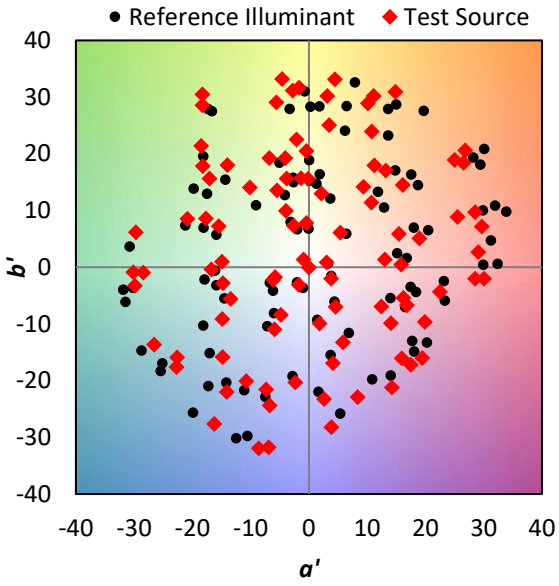
Summary

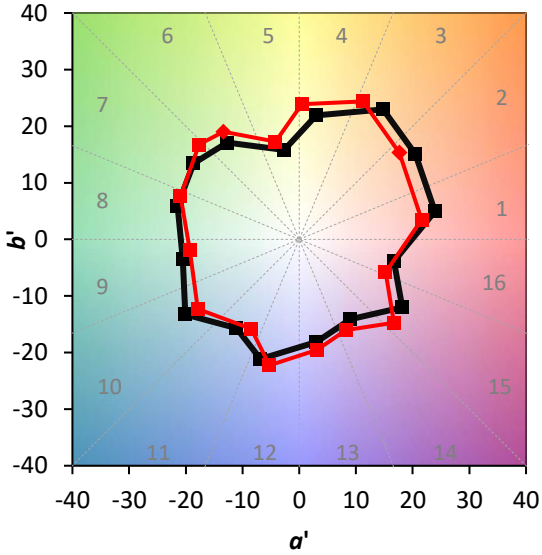
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

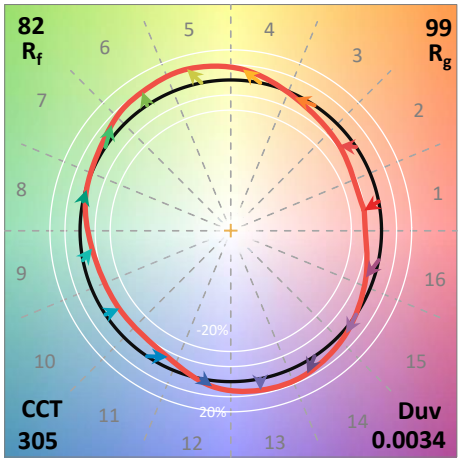
Spectral Power Distribution Comparison

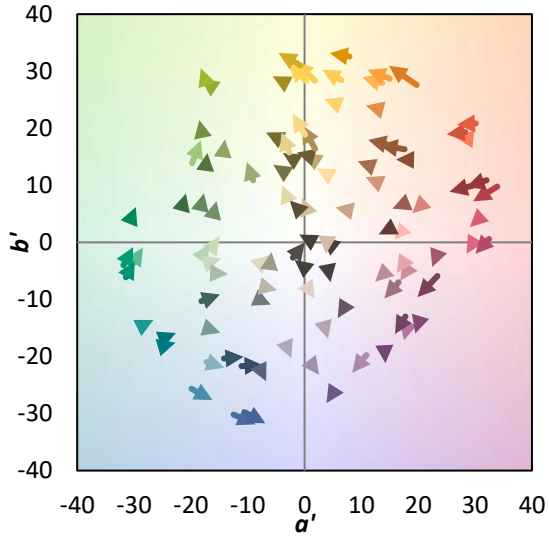


Color Vector Graphics









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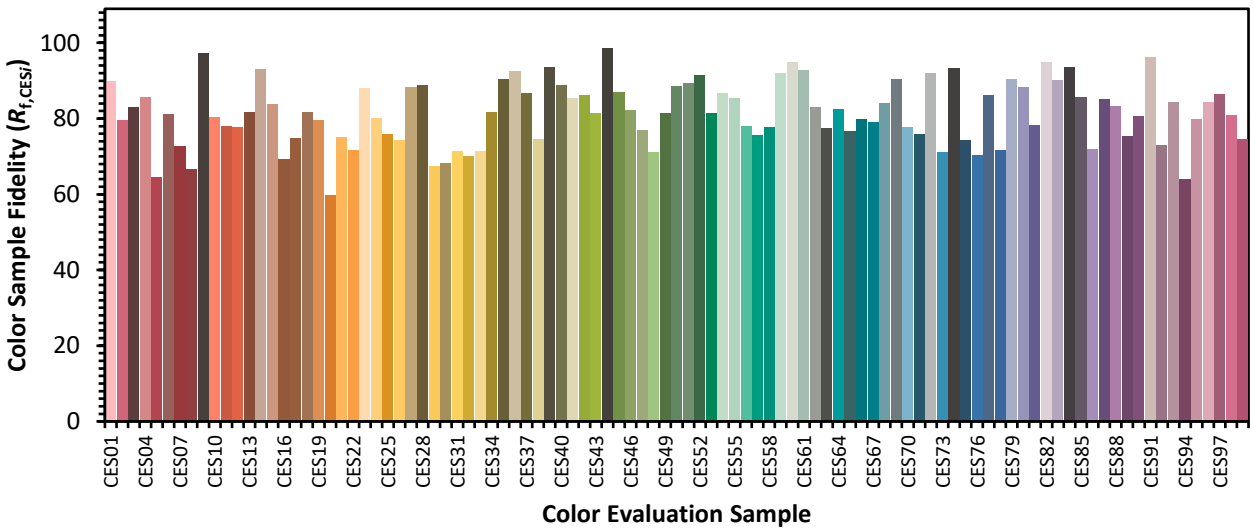
Individual Sample Fidelity Index ($R_{f,i}$)

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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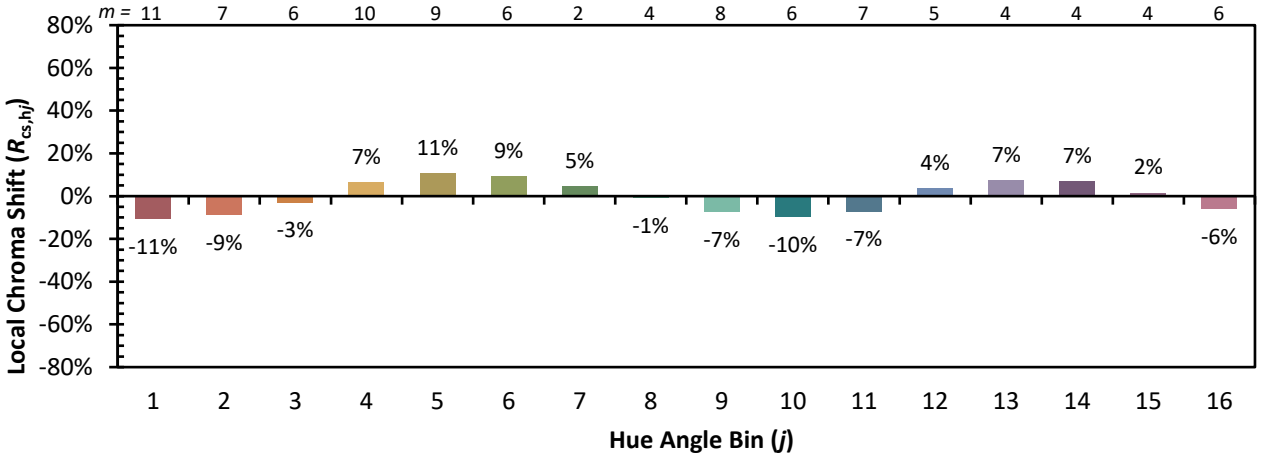
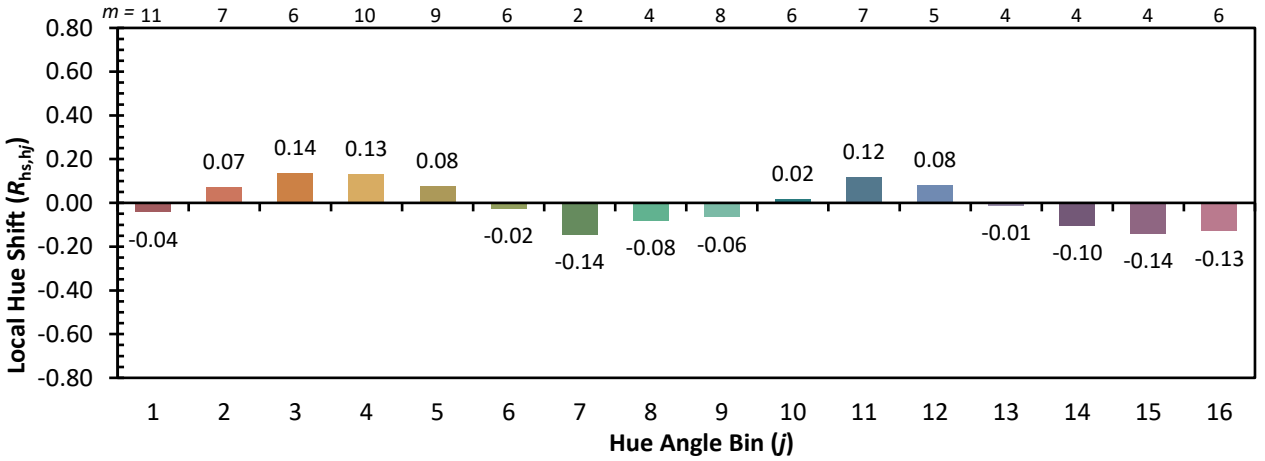
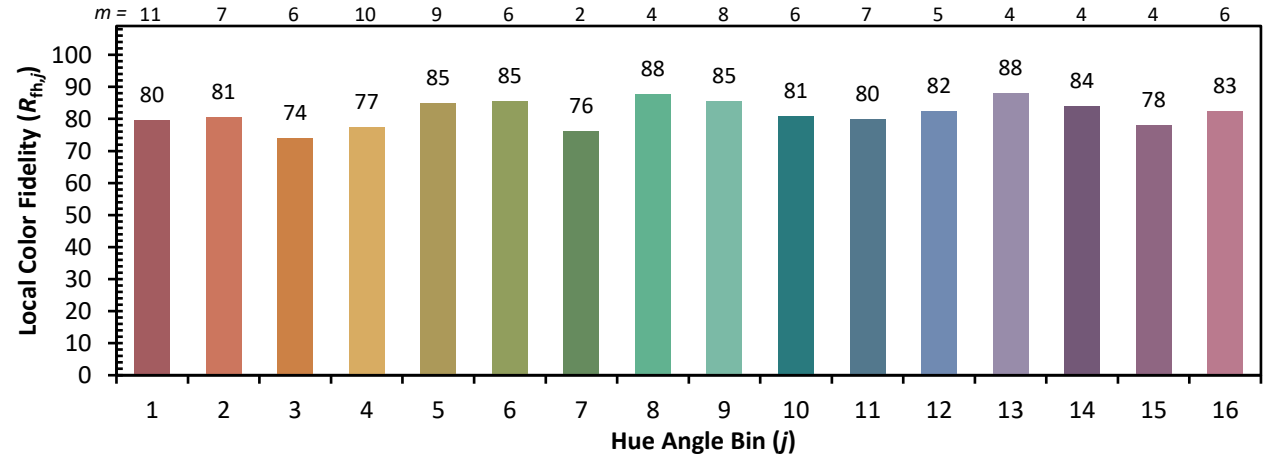
Color Rendition by Hue-Angle Bin







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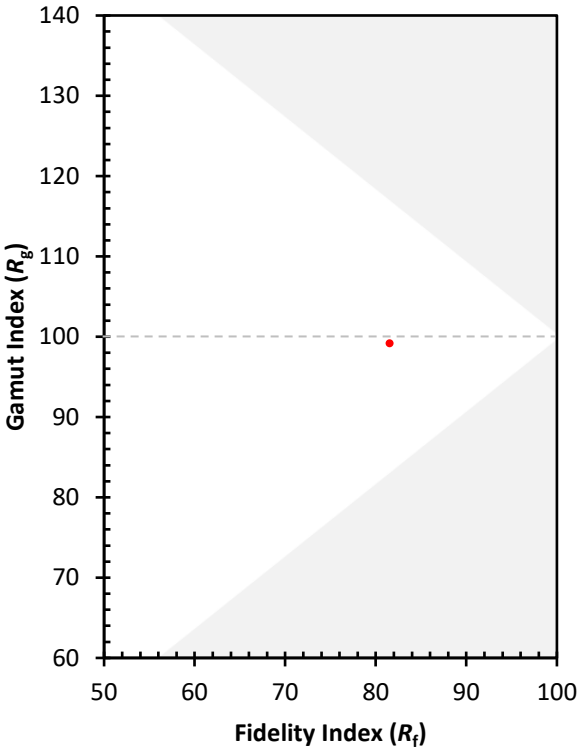
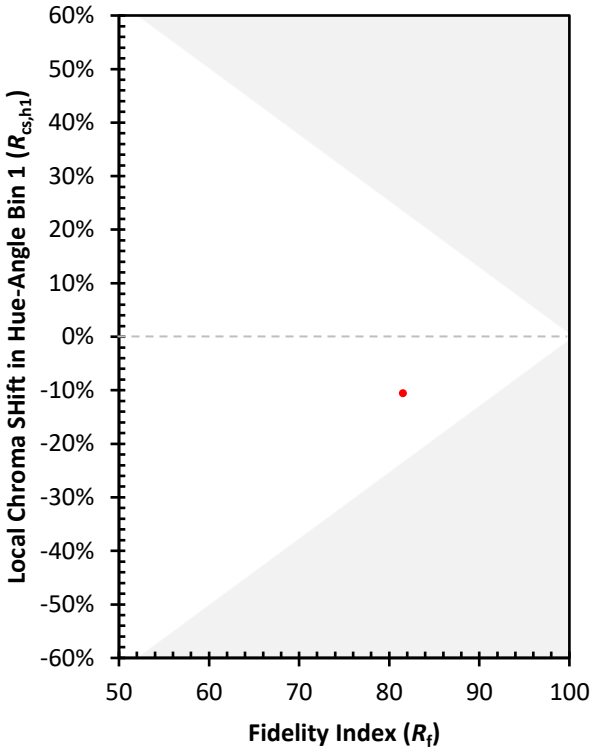
Measure Comparisons





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