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: P631062

Luminaire Tested: GWS-SA1E-830-U-T1-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:	P631062
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1E-830-U-T1-W
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6008.5 lumens
Efficiency:	N/A
Efficacy:	102.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type I - Medium
BUG Rating:	B2 - U0 - G2

Input Watts (W):	58.4
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

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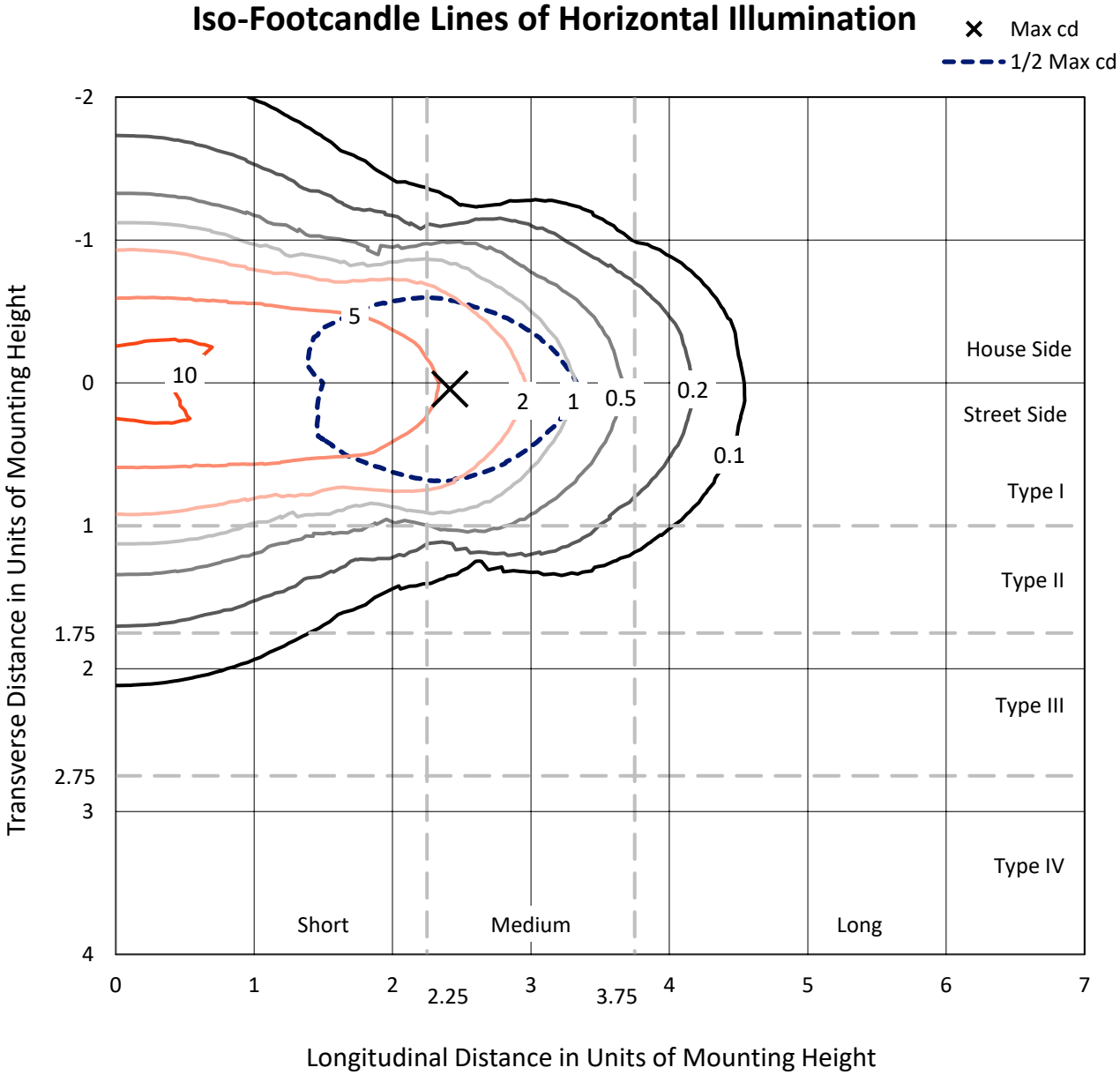
Scaled Data Report

REPORT NUMBER: P631062
CATALOG NUMBER: GWS-SA1E-830-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 11 fc
Type I - Medium - N/A

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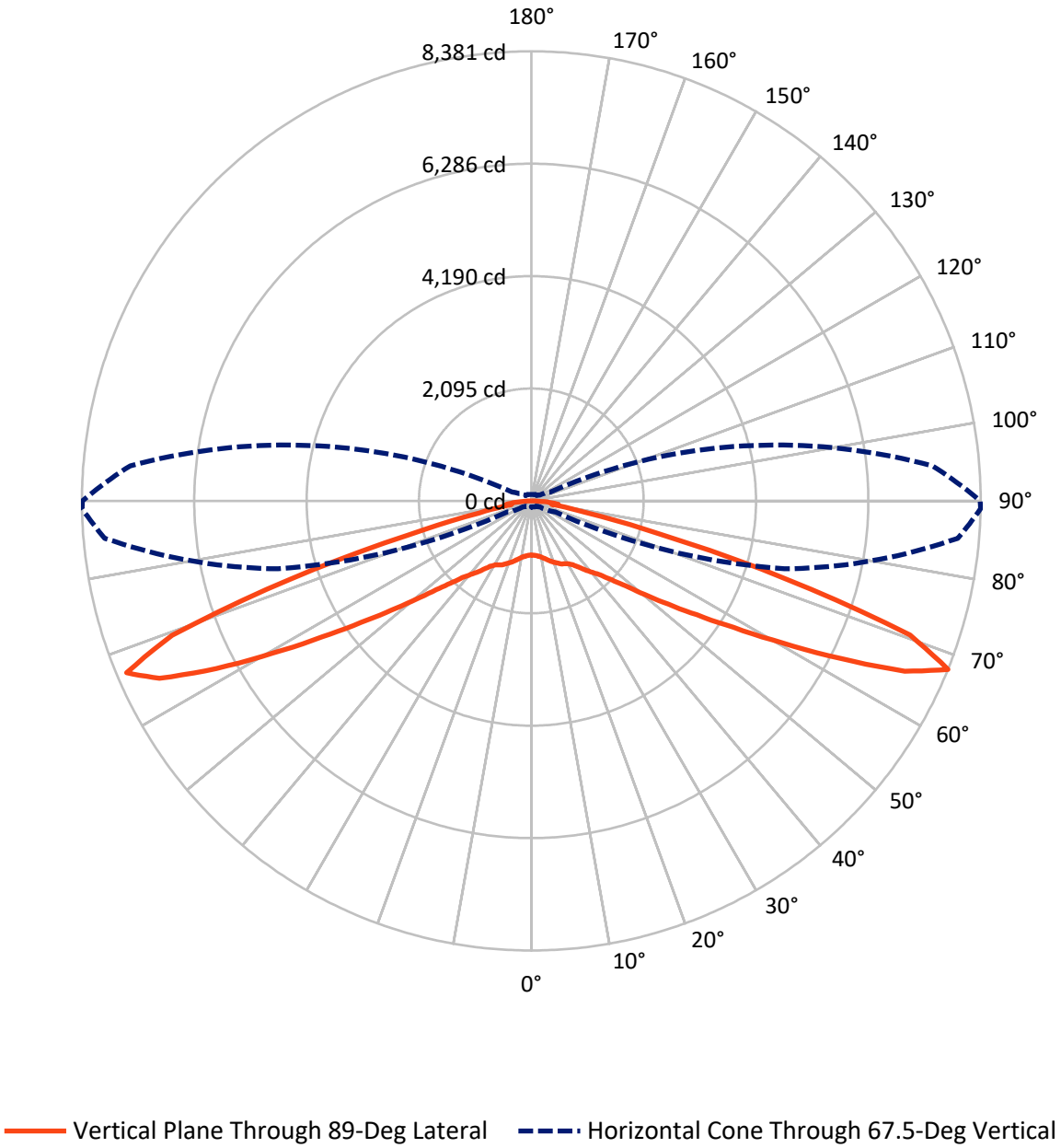
REPORT NUMBER: P631062
CATALOG NUMBER: GWS-SA1E-830-U-T1-W

Luminous Intensity Polar Plot



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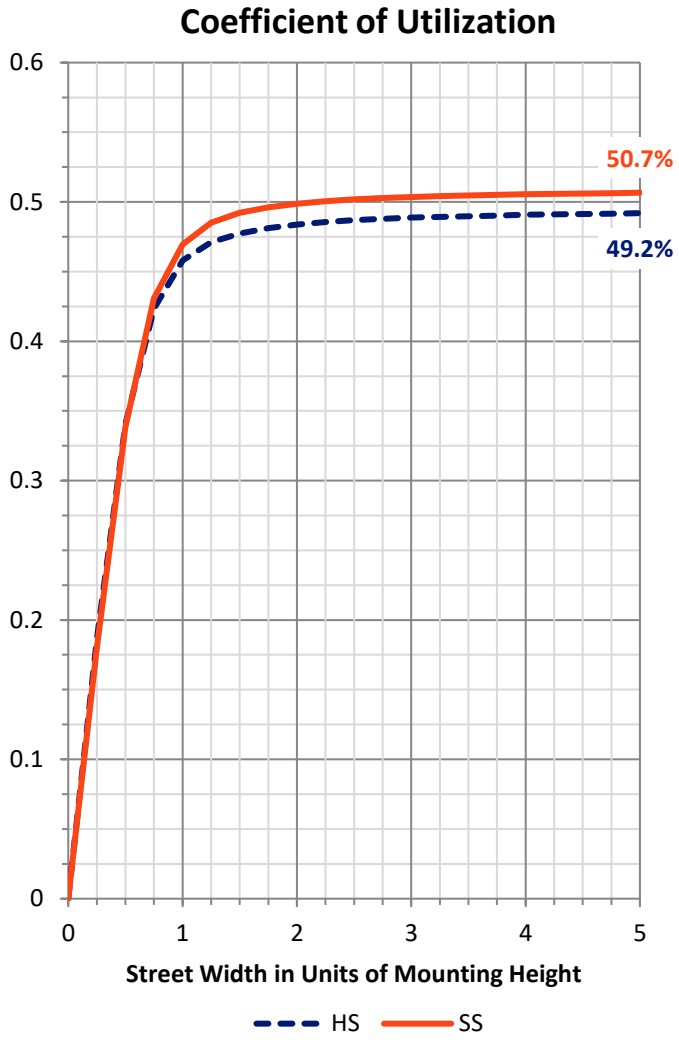
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2977.9	0.0	2977.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	3030.6	0.0	3030.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	6008.5	0.0	6008.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.7
10°-20°	329.4	5.5
20°-30°	556.8	9.3
30°-40°	764.2	12.7
40°-50°	974.5	16.2
50°-60°	1222.6	20.3
60°-70°	1474.6	24.5
70°-80°	533.5	8.9
80°-90°	51.9	0.9
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°	6008.5	100.0
0°-180°	6008.5	100.0



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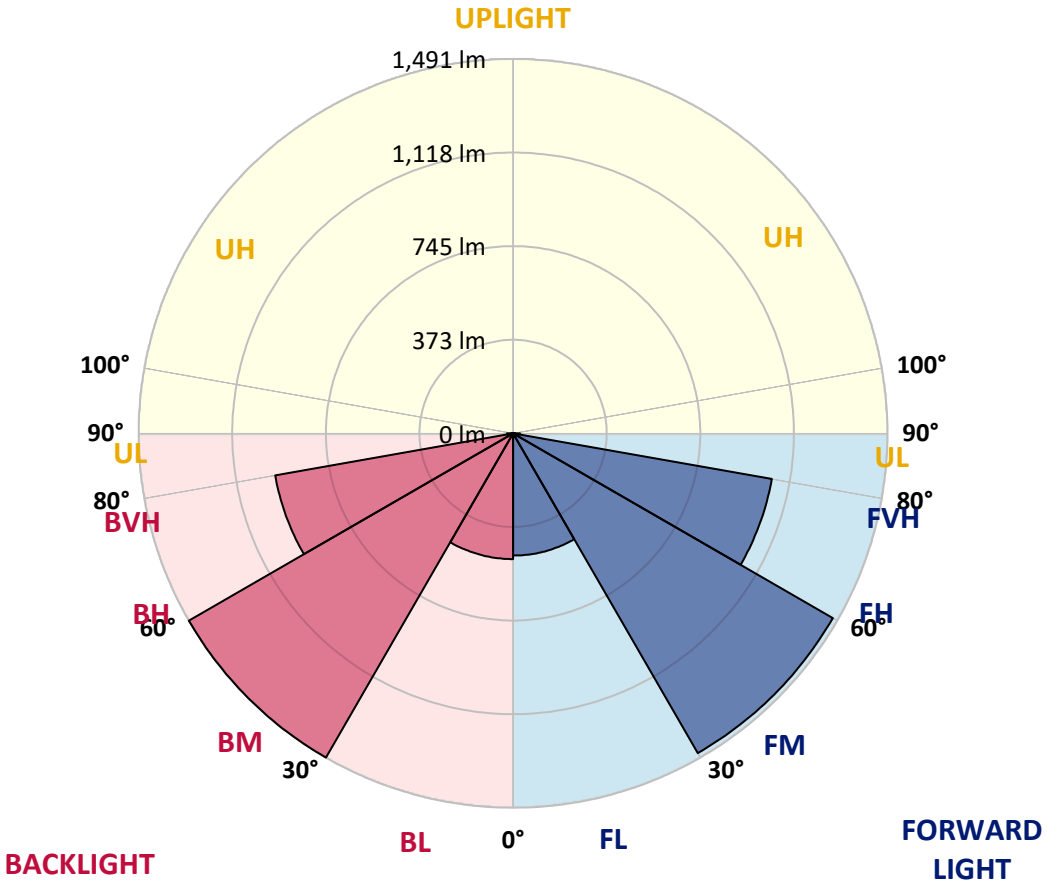
REPORT NUMBER: P631062
CATALOG NUMBER: GWS-SA1E-830-U-T1-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	486.6	8.1			
FM	(30°-60°)	1470.4	24.5			
FH	(60°-80°)	1046.2	17.4			G1/1800
FVH	(80°-90°)	27.4	0.5			G1/100
BL	(0°-30°)	500.7	8.3	B2/1000		
BM	(30°-60°)	1490.8	24.8	B2/2500		
BH	(60°-80°)	961.9	16.0	B2/1000		G2/1000
BVH	(80°-90°)	24.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type I Medium



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Scaled Data Report

REPORT NUMBER: P631062
CATALOG NUMBER: GWS-SA1E-830-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	*1008.5*
2.5°	1011.5	1010.6	1008.5	1015.0	1013.7	1014.1	1016.7	1015.0	1011.9	1006.8	*1014.1*
5°	1040.0	1039.5	1034.8	1038.7	1034.4	1031.3	1030.9	1026.6	1023.2	1017.5	*1025.3*
7.5°	1067.6	1067.2	1063.3	1070.2	1066.7	1063.3	1059.4	1050.8	1042.6	1034.4	*1043.0*
10°	1088.7	1088.3	1087.4	1097.4	1098.2	1099.5	1097.8	1083.1	1068.9	1059.0	*1067.6*
12.5°	1100.8	1102.1	1104.3	1122.4	1131.5	1140.1	1142.3	1130.2	1106.4	1092.2	*1102.6*
15°	1092.6	1095.2	1106.0	1138.8	1163.8	1183.2	1191.4	1181.5	1150.9	1127.1	*1138.8*
17.5°	1053.4	1055.5	1076.7	1126.7	1182.0	1226.8	1240.2	1234.2	1200.1	1171.2	*1182.4*
20°	999.0	1003.7	1026.6	1096.5	1178.9	1257.0	1292.9	1290.7	1253.6	1209.1	*1222.5*
22.5°	949.8	955.4	979.6	1056.8	1158.6	1264.8	1345.9	1351.5	1302.3	1247.1	*1257.9*
25°	894.6	899.7	930.8	1009.8	1123.7	1258.8	1391.2	1416.7	1357.6	1290.7	*1300.6*
27.5°	838.0	841.9	872.5	956.7	1078.0	1247.5	1427.1	1488.3	1412.0	1320.9	*1327.8*
30°	788.4	793.6	821.6	903.6	1027.9	1225.1	1456.4	1564.7	1474.5	1355.0	*1360.6*
32.5°	740.5	744.8	775.5	851.4	974.8	1190.6	1482.7	1654.5	1567.3	1418.4	*1418.4*
35°	680.1	687.9	722.4	801.3	924.8	1144.8	1501.7	1758.9	1694.2	1512.1	*1512.5*
37.5°	624.4	628.7	665.0	744.8	872.1	1093.1	1503.4	1867.2	1854.7	1631.2	*1632.0*
40°	561.0	566.6	605.4	684.4	811.7	1038.7	1487.0	1968.2	2023.0	1753.7	*1749.0*
42.5°	496.7	504.9	542.0	619.2	746.5	972.2	1443.5	2064.4	2236.6	1895.7	*1884.0*
45°	434.5	439.7	476.8	549.8	671.9	892.8	1373.6	2156.8	2490.3	2111.5	*2094.6*
47.5°	364.6	366.8	405.2	475.1	594.6	804.4	1273.4	2239.2	2769.1	2397.1	*2368.2*
50°	302.5	305.5	335.7	395.7	500.1	699.5	1148.7	2287.5	3124.3	2786.8	*2736.7*
52.5°	244.7	247.7	271.9	319.8	413.4	580.0	994.2	2276.3	3484.6	3270.5	*3197.6*
55°	197.6	199.8	216.2	253.7	325.4	461.3	811.7	2175.8	3884.6	3902.3	*3745.2*
57.5°	167.0	167.9	179.1	202.0	254.2	355.6	626.6	1938.4	4304.0	4708.4	*4450.3*
60°	149.3	149.7	154.9	169.2	200.7	271.4	459.1	1560.4	4738.6	5716.9	*5363.0*
62.5°	138.1	138.1	142.4	150.6	166.6	208.9	337.5	1120.7	5050.6	6814.2	*6462.5*
65°	127.3	127.3	130.3	137.2	145.9	170.5	253.3	722.8	5203.8	7731.7	*7653.6*
67.5°	*113.5*	*113.9*	*116.1*	*123.4*	*131.2*	*142.4*	*192.0*	*488.9*	*4885.7*	*7985.4*	*8380.7*
70°	100.5	101.0	104.0	108.7	115.2	123.0	150.2	337.0	3556.2	6650.7	*7493.5*
72.5°	86.3	88.0	90.2	95.4	99.3	104.9	122.6	218.4	2069.2	4278.2	*4953.5*
75°	70.8	72.9	75.5	80.7	83.3	85.4	101.0	155.8	995.5	2168.0	*2468.8*
77.5°	54.8	57.0	60.0	64.7	66.5	69.0	77.2	112.6	476.8	961.0	*1036.1*
80°	36.7	37.5	40.1	45.7	48.8	50.5	57.0	76.8	207.1	385.8	*382.3*
82.5°	22.4	22.9	23.7	27.2	28.5	30.2	37.1	47.0	98.8	438.4	*502.7*
85°	8.2	7.8	7.3	9.5	11.2	12.9	17.3	23.7	43.2	301.2	*337.0*
87.5°	0.0	0.0	0.0	0.4	0.9	0.9	1.7	3.5	10.4	112.6	*77.2*
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: P631062
CATALOG NUMBER: GWS-SA1E-830-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5
2.5°	1011.9	1007.2	1013.2	1017.5	1027.0	1030.5	1031.3	1028.3	1028.3	1023.2	1024.0
5°	1023.6	1020.6	1030.5	1037.8	1051.6	1056.8	1060.3	1058.1	1059.4	1055.9	1056.8
7.5°	1041.3	1038.7	1055.9	1070.2	1084.4	1090.5	1093.5	1091.8	1092.2	1087.9	1089.2
10°	1065.9	1066.7	1087.4	1106.0	1125.0	1131.0	1132.3	1127.1	1122.8	1115.1	1115.5
12.5°	1099.5	1103.8	1133.2	1153.9	1173.3	1182.0	1172.5	1153.5	1135.8	1122.4	1120.7
15°	1136.2	1144.0	1186.3	1212.6	1233.7	1229.4	1201.4	1158.6	1123.7	1103.8	1100.0
17.5°	1180.2	1191.9	1245.0	1276.5	1294.6	1267.0	1208.3	1144.4	1095.6	1068.9	1063.7
20°	1221.7	1240.2	1307.1	1348.1	1350.2	1288.1	1205.3	1115.5	1054.2	1021.4	1014.5
22.5°	1259.6	1283.4	1372.3	1424.5	1396.4	1297.6	1186.7	1074.5	1004.2	965.8	959.7
25°	1301.1	1334.7	1448.2	1497.0	1442.6	1293.7	1147.9	1023.6	943.7	904.5	900.2
27.5°	1329.5	1371.8	1524.6	1571.2	1480.6	1271.7	1097.8	967.9	888.5	851.4	845.4
30°	1362.3	1416.3	1608.7	1651.9	1503.9	1239.3	1044.3	916.1	837.2	797.0	792.7
32.5°	1421.9	1489.6	1713.2	1737.3	1511.2	1199.2	992.9	866.1	783.7	743.5	737.5
35°	1517.7	1597.1	1859.9	1832.7	1505.6	1155.2	944.2	807.4	728.8	691.3	685.3
37.5°	1638.5	1737.3	2023.4	1918.6	1490.1	1106.9	886.4	758.2	679.7	641.7	638.2
40°	1751.1	1872.8	2206.8	1992.8	1458.6	1047.3	830.7	706.8	626.6	586.4	578.7
42.5°	1892.2	2054.1	2419.1	2057.1	1406.8	976.1	768.1	643.4	560.1	523.9	514.4
45°	2106.7	2307.8	2666.0	2118.8	1329.5	888.5	689.6	566.2	487.2	450.1	442.7
47.5°	2374.3	2625.0	2933.5	2155.5	1212.2	796.2	600.7	484.6	405.6	363.8	360.3
50°	2750.1	3086.3	3220.5	2149.0	1081.0	686.6	500.6	387.5	321.5	291.3	286.5
52.5°	3208.0	3665.4	3530.8	2071.3	941.6	561.8	390.1	304.2	255.0	233.5	229.6
55°	3782.3	4358.9	3857.4	1904.8	765.5	430.2	306.4	239.9	206.3	193.3	191.6
57.5°	4493.5	5256.9	4172.0	1624.3	575.7	328.4	236.0	198.1	182.1	174.3	173.9
60°	5432.1	6210.1	4445.2	1262.2	412.1	251.1	195.1	176.9	164.4	159.2	158.8
62.5°	6548.0	7075.7	4615.2	859.6	309.8	200.2	171.7	160.5	153.2	150.2	149.7
65°	7695.0	7622.9	4534.1	563.1	235.2	170.0	154.1	148.0	141.5	138.5	138.5
67.5°	*8372.5*	*7507.3*	*3911.4*	*391.0*	*186.4*	*149.3*	*139.0*	*133.3*	*122.6*	*120.0*	*120.0*
70°	7415.8	6083.2	2563.7	286.1	151.0	130.8	120.8	113.1	108.7	106.2	105.7
72.5°	4904.7	3958.4	1363.2	198.5	126.0	111.3	102.3	99.3	94.1	91.5	91.1
75°	2441.1	2079.1	698.6	143.3	104.9	89.3	85.4	84.1	79.8	76.4	75.5
77.5°	1017.5	925.6	325.8	104.0	79.8	72.1	68.6	68.6	63.9	60.0	58.3
80°	383.6	341.8	154.1	71.2	59.1	53.5	51.4	49.6	45.7	41.0	38.4
82.5°	513.1	335.3	75.5	44.4	38.8	34.5	31.5	30.2	28.0	25.9	24.2
85°	332.3	238.2	34.1	22.9	19.4	14.7	12.9	12.1	10.8	9.5	8.6
87.5°	67.7	79.8	10.4	4.3	2.6	1.3	1.3	0.4	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

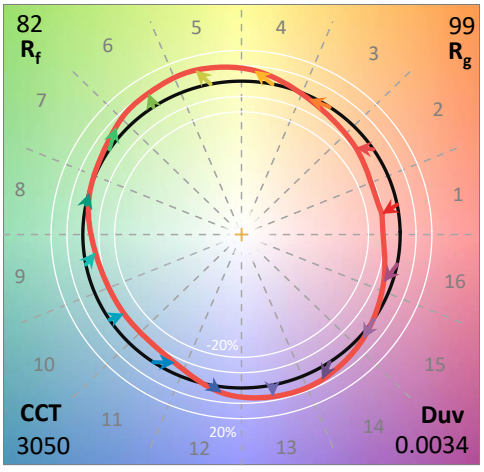
Test Information

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

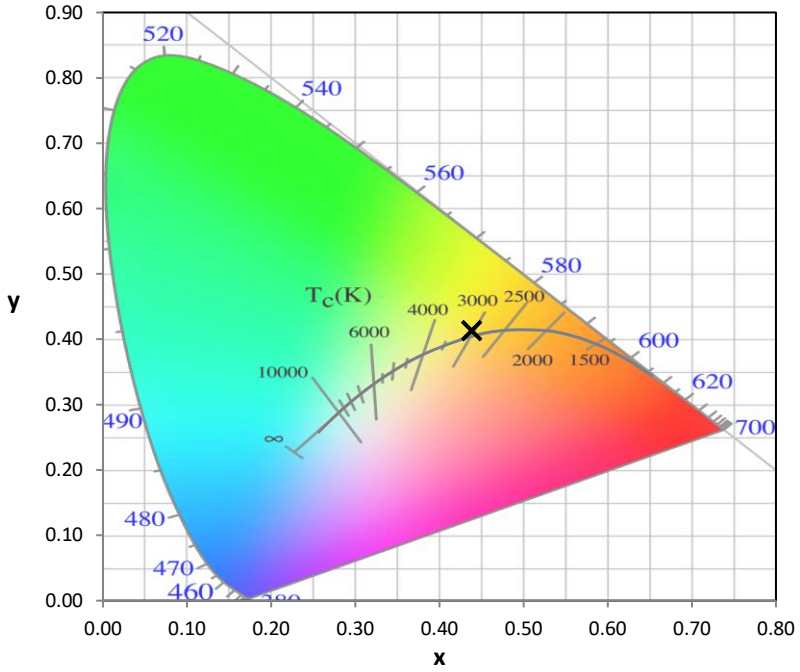
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

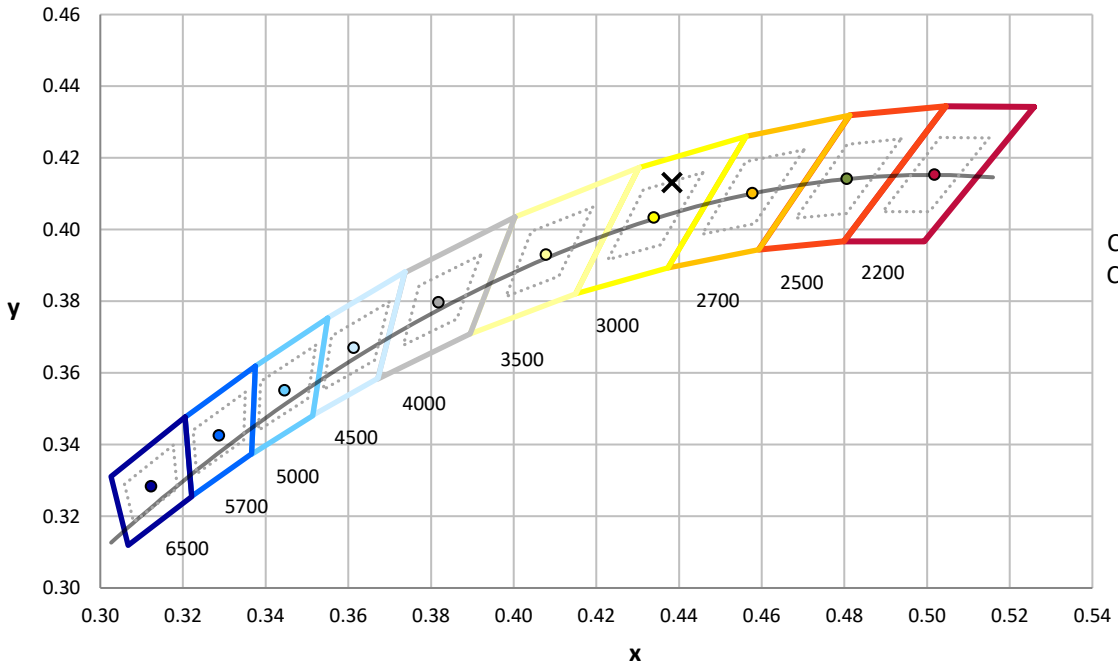
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

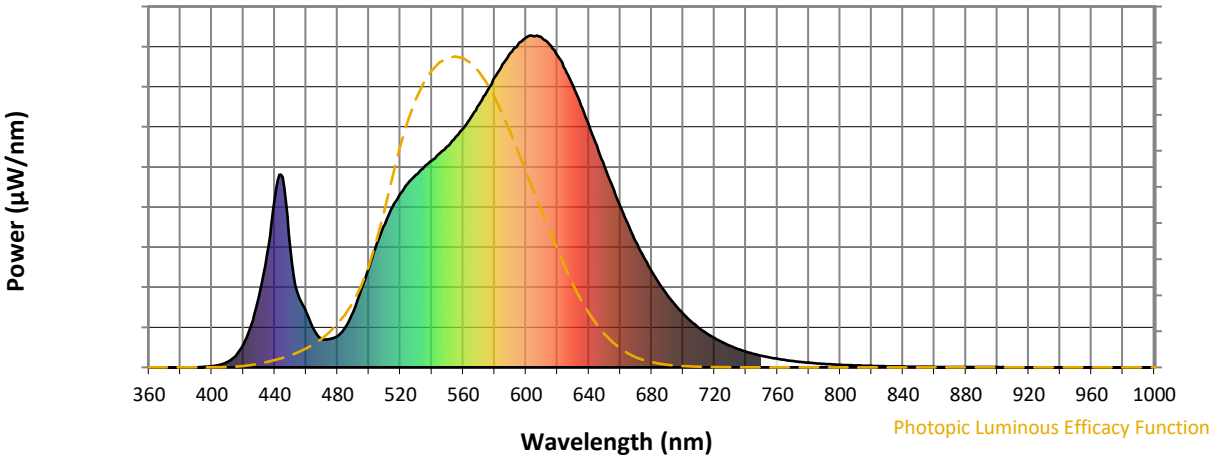


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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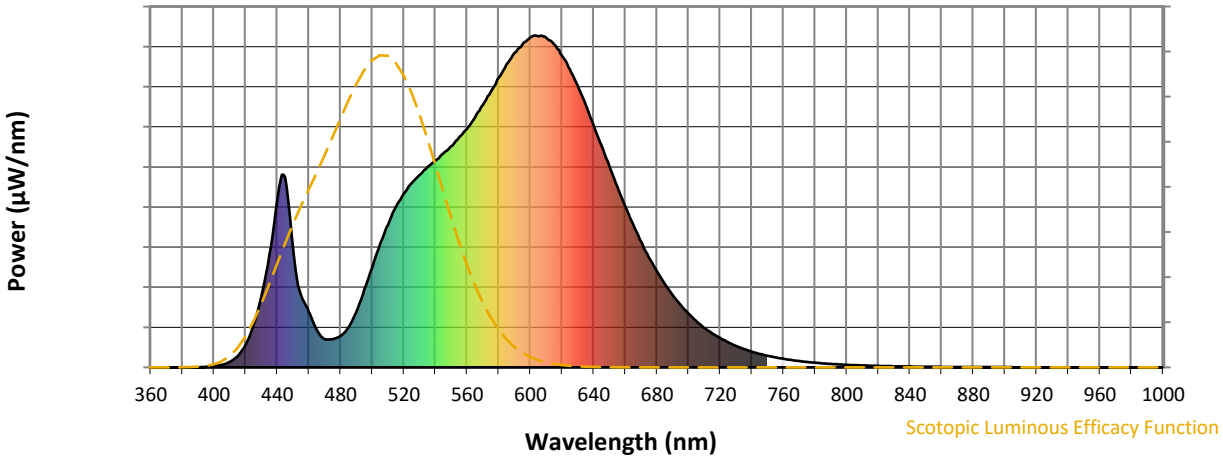
Scotopic Flux vs. Wavelength



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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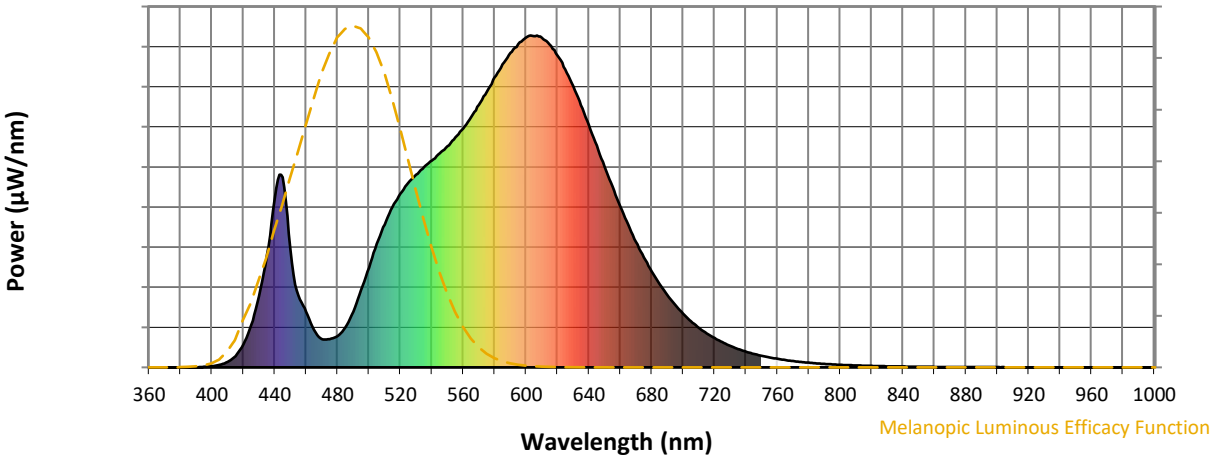
Melanopic Flux vs. Wavelength



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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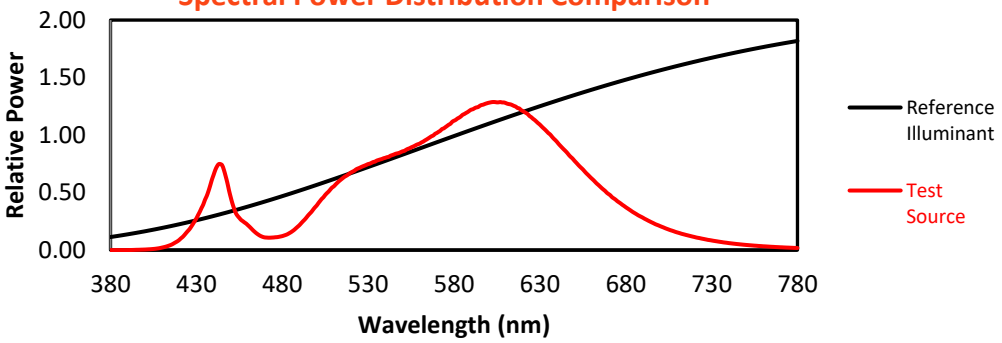
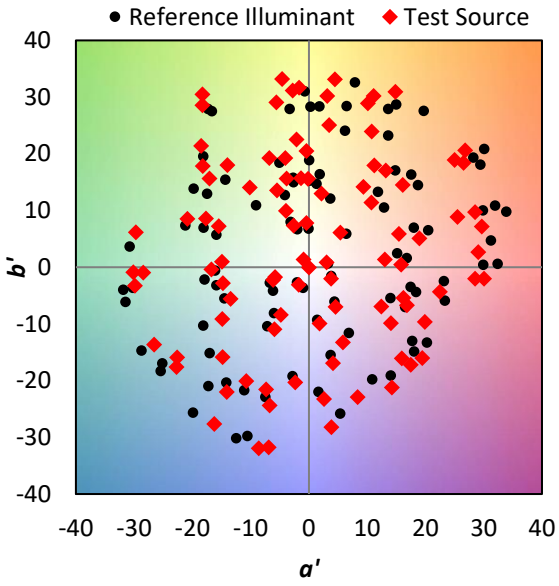
Summary

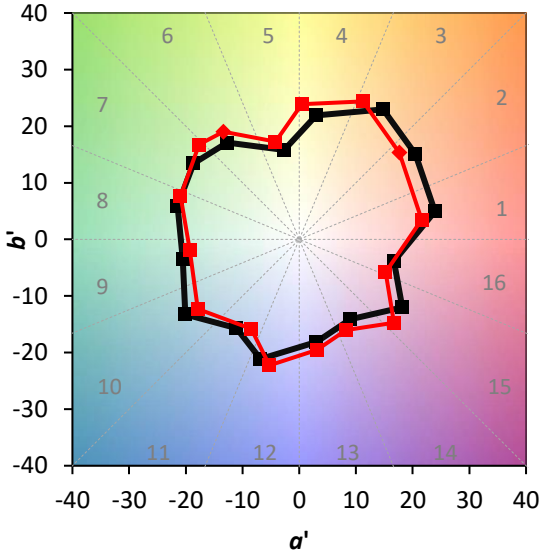
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

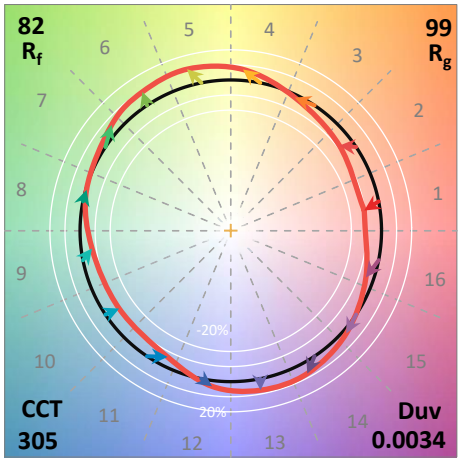
Spectral Power Distribution Comparison

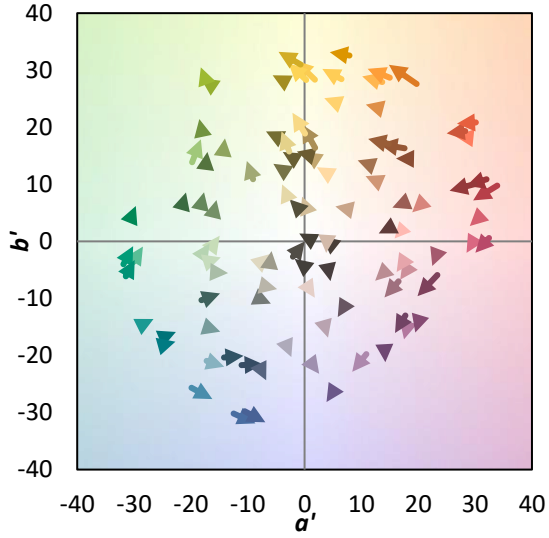


Color Vector Graphics









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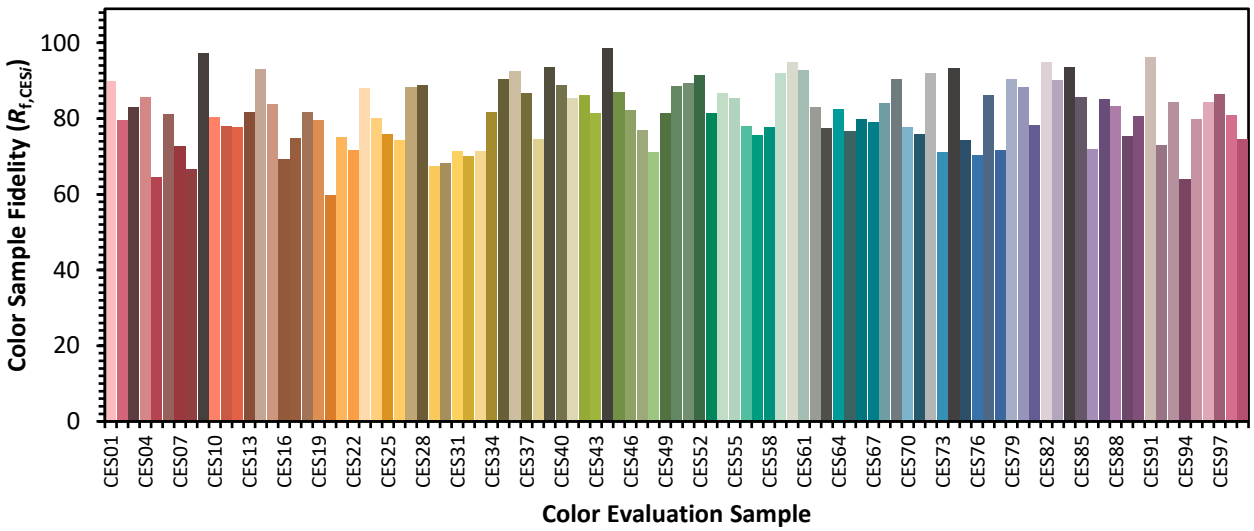
Individual Sample Fidelity Index ($R_{f,i}$)

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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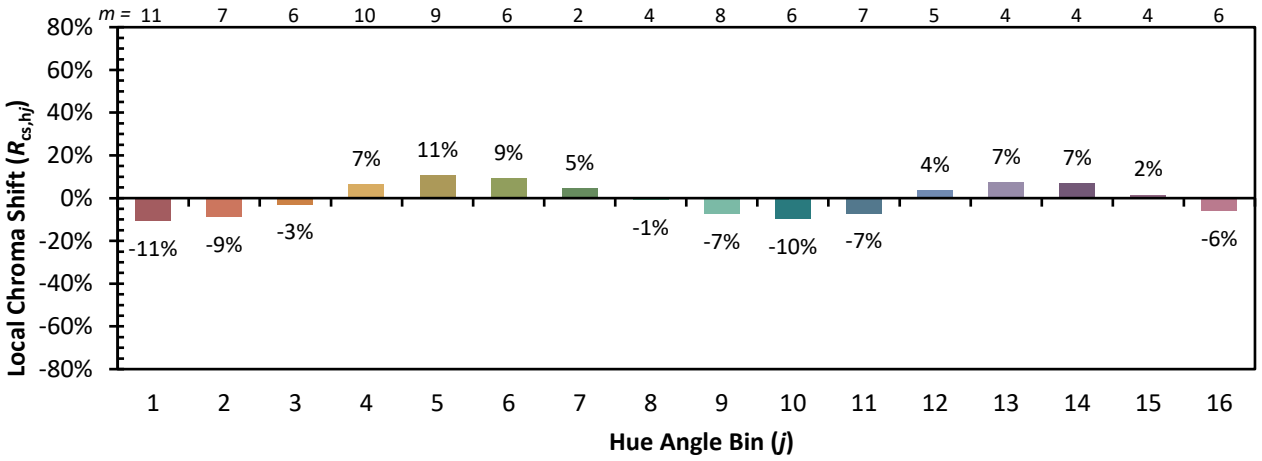
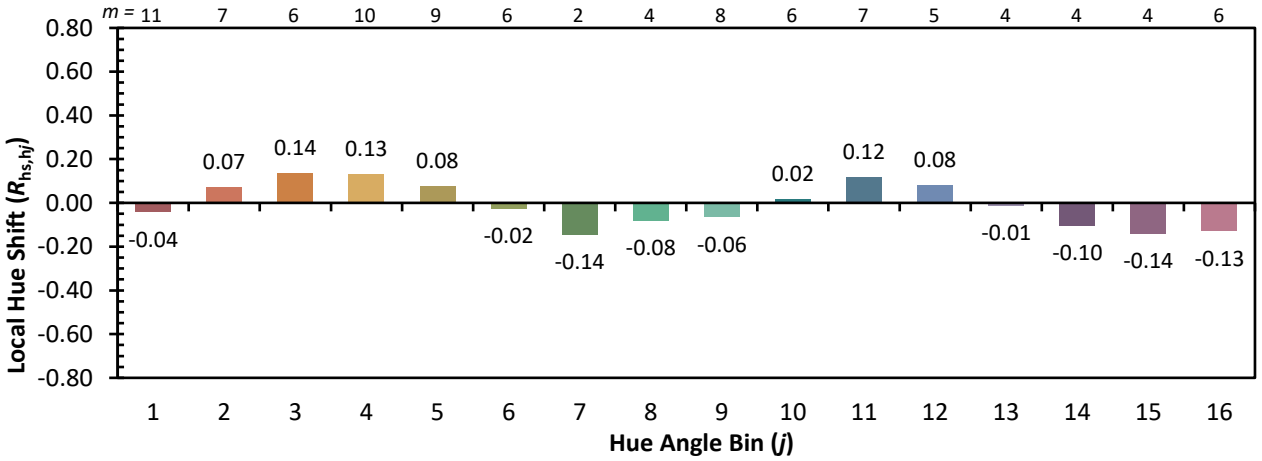
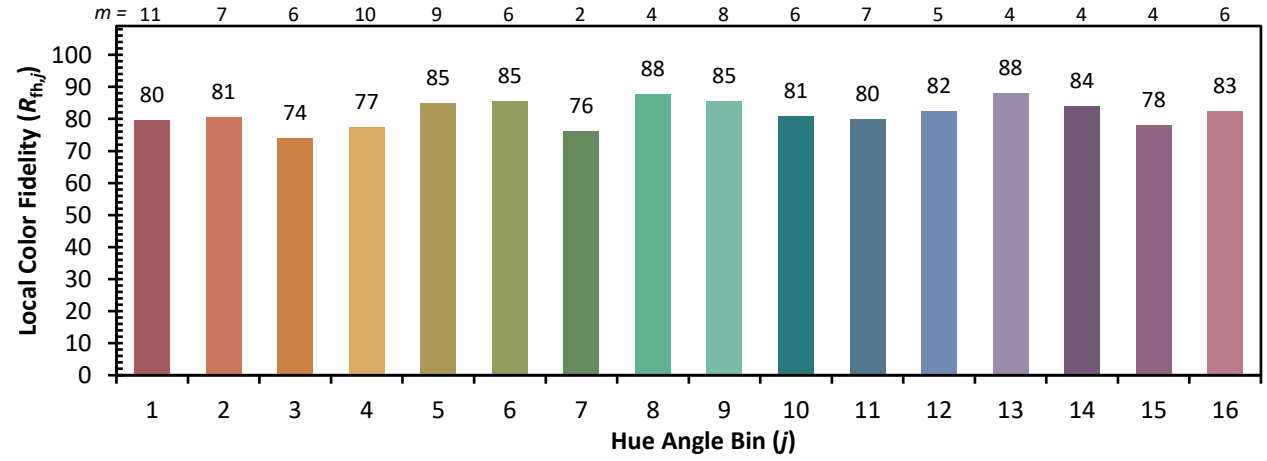
Color Rendition by Hue-Angle Bin







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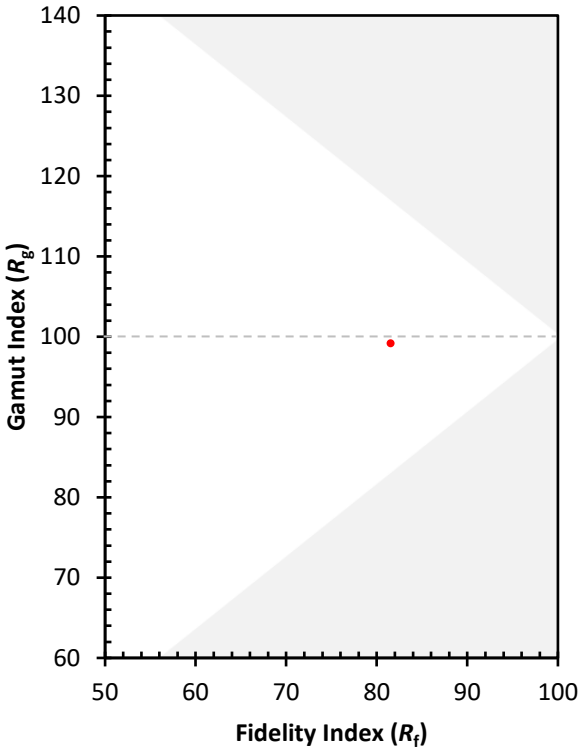
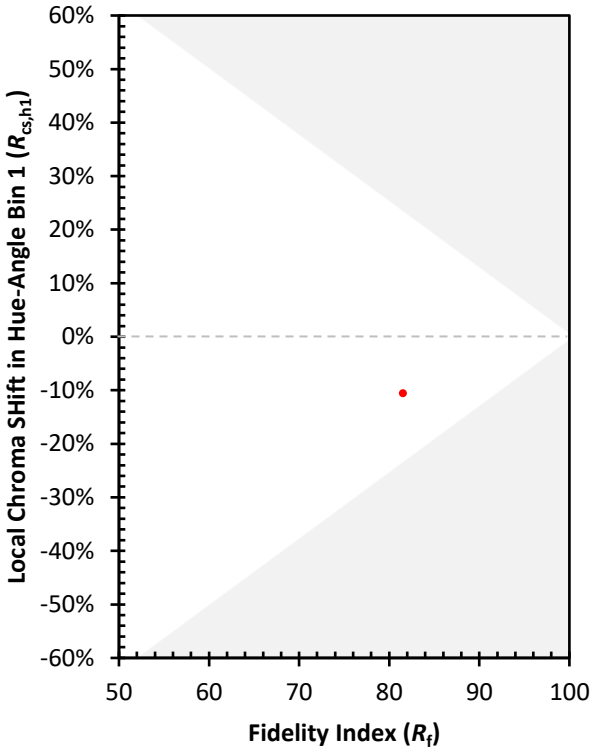
Measure Comparisons





(END OF REPORT)