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: P631072

Luminaire Tested: GWS-SA1E-830-U-T3-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:	P631072
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1E-830-U-T3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5137.7 lumens
Efficiency:	N/A
Efficacy:	88.0 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

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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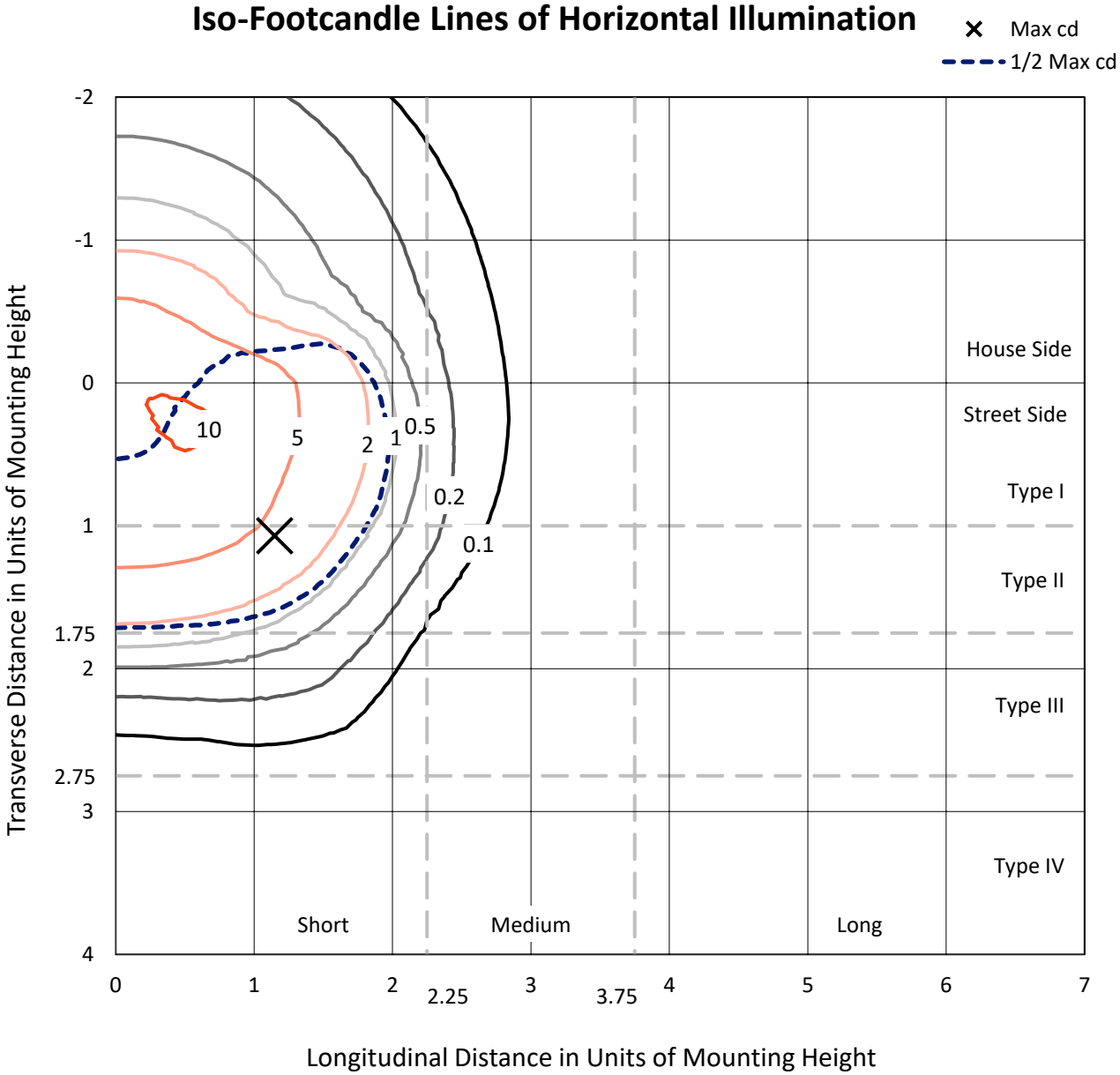
Scaled Data Report

REPORT NUMBER: P631072
CATALOG NUMBER: GWS-SA1E-830-U-T3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
Type II - Short - N/A

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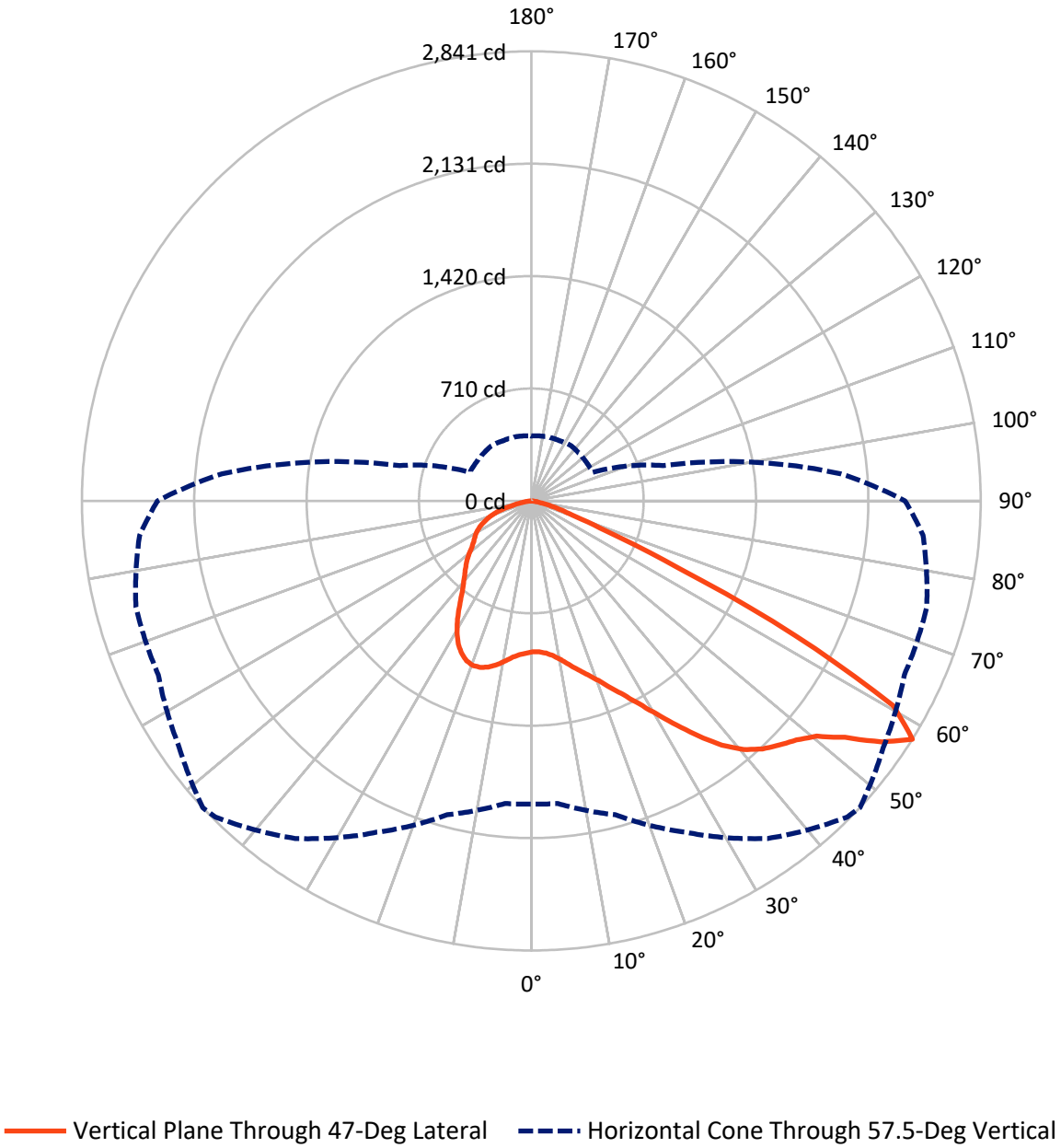
Luminous Intensity Polar Plot



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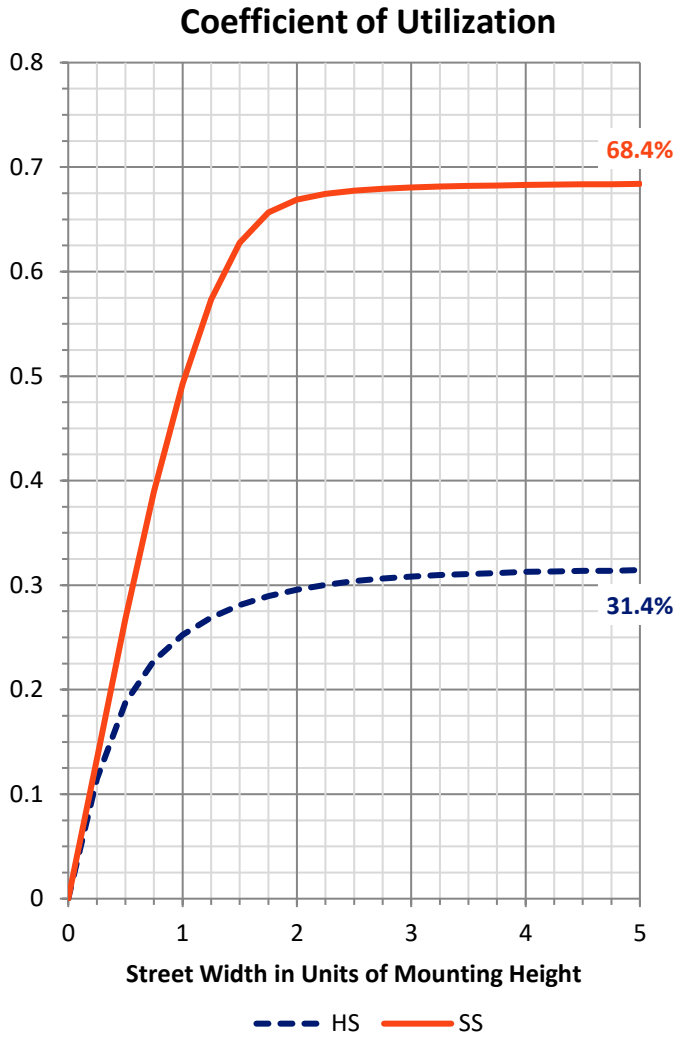
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1626.1	0.0	1626.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	3511.6	0.0	3511.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	5137.7	0.0	5137.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	1.8
10°-20°	309.1	6.0
20°-30°	556.6	10.8
30°-40°	840.6	16.4
40°-50°	1132.0	22.0
50°-60°	1360.2	26.5
60°-70°	662.5	12.9
70°-80°	163.2	3.2
80°-90°	19.6	0.4
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°	5137.7	100.0
0°-180°	5137.7	100.0



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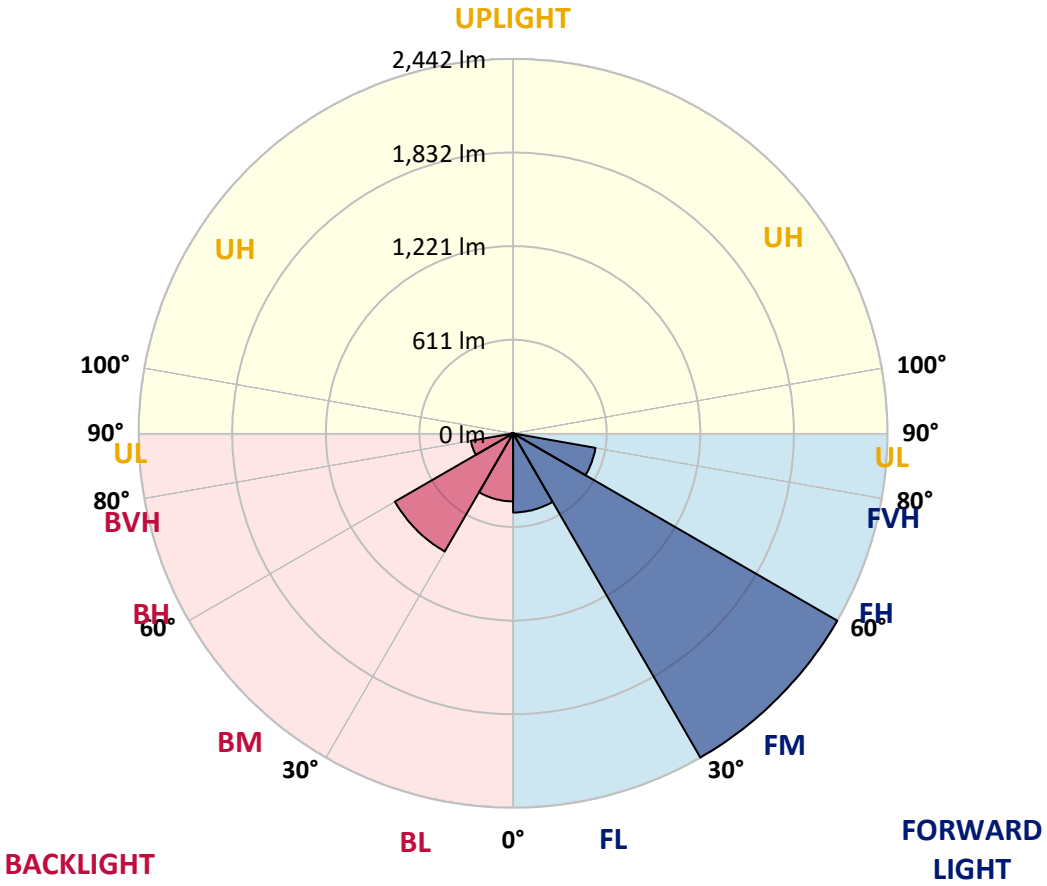
REPORT NUMBER: P631072
CATALOG NUMBER: GWS-SA1E-830-U-T3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	516.1	10.0			
FM	(30°-60°)	2442.2	47.5			
FH	(60°-80°)	546.0	10.6			G0/660
FVH	(80°-90°)	7.4	0.1			G0/10
BL	(0°-30°)	443.6	8.6	B1/500		
BM	(30°-60°)	890.6	17.3	B1/1000		
BH	(60°-80°)	279.7	5.4	B1/500		G1/500
BVH	(80°-90°)	12.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P631072
CATALOG NUMBER: GWS-SA1E-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	952.8	952.8	952.8	952.8	952.8	952.8	*952.8*	952.8	952.8	952.8	952.8
2.5°	951.1	950.6	950.6	953.2	953.2	954.1	*955.4*	956.7	957.1	955.0	950.2
5°	961.4	961.4	961.4	963.6	963.6	964.4	*966.2*	966.6	966.2	962.7	958.0
7.5°	977.8	977.8	978.3	980.8	983.0	984.3	*987.3*	986.9	985.6	980.0	973.9
10°	1004.6	1005.9	1007.2	1010.2	1014.5	1017.5	*1019.7*	1019.7	1018.0	1009.3	1001.6
12.5°	1042.5	1044.3	1045.6	1048.2	1051.6	1056.8	*1061.5*	1061.5	1059.4	1048.6	1036.9
15°	1087.0	1088.7	1088.3	1089.2	1095.6	1103.0	*1106.8*	1109.4	1110.3	1095.2	1077.1
17.5°	1137.9	1139.6	1137.9	1135.3	1136.2	1147.8	*1154.7*	1164.2	1169.8	1149.6	1120.7
20°	1184.1	1182.4	1182.4	1184.1	1186.7	1200.9	*1211.3*	1226.8	1233.7	1209.1	1164.2
22.5°	1232.8	1236.7	1235.0	1235.0	1245.4	1269.1	*1281.6*	1301.9	1309.2	1277.3	1216.9
25°	1295.9	1299.3	1298.4	1299.3	1311.4	1345.0	*1357.6*	1395.1	1402.4	1356.7	1275.1
27.5°	1364.9	1370.5	1373.1	1372.2	1391.6	1435.7	*1451.2*	1503.4	1516.8	1445.6	1337.3
30°	1454.7	1460.7	1462.8	1462.0	1484.9	1544.8	*1562.5*	1622.1	1641.1	1550.9	1416.2
32.5°	1558.6	1564.7	1571.2	1573.7	1603.1	1664.4	*1689.8*	1751.5	1778.7	1672.6	1511.6
35°	1661.8	1667.0	1679.5	1699.8	1739.9	1802.5	*1824.9*	1885.7	1912.1	1799.0	1626.8
37.5°	1775.7	1779.2	1789.9	1818.0	1875.8	1935.4	*1957.8*	2016.1	2019.1	1921.1	1757.1
40°	1900.4	1900.4	1898.3	1925.9	1986.3	2046.3	*2065.7*	2099.3	2081.6	2015.2	1884.0
42.5°	2006.1	2004.4	2006.1	2032.0	2076.9	2125.7	*2142.5*	2136.0	2113.6	2087.3	1998.8
45°	2101.5	2102.8	2118.3	2138.2	2161.5	2190.4	*2200.3*	2163.6	2143.4	2145.1	2090.7
47.5°	2166.2	2167.5	2203.8	2237.0	2251.2	2260.3	*2256.0*	2205.1	2194.7	2214.1	2161.5
50°	2174.9	2181.8	2244.3	2312.5	2347.9	2349.2	*2337.1*	2275.0	2271.9	2294.0	2199.5
52.5°	2176.6	2183.5	2261.6	2384.6	2476.5	2495.9	*2482.1*	2417.4	2385.9	2363.9	2246.1
55°	2170.1	2177.9	2264.2	2432.9	2609.0	2686.6	*2687.9*	2596.4	2495.9	2481.2	2379.0
57.5°	*1915.9*	*1919.0*	*2052.7*	*2309.9*	*2603.8*	*2823.9*	*2840.7*	*2716.4*	*2601.6*	*2587.8*	*2485.5*
60°	1334.7	1346.8	1492.2	1831.8	2187.4	2575.3	*2629.7*	2593.4	2516.6	2416.1	2132.6
62.5°	668.4	678.8	824.6	1145.7	1508.6	1815.0	*1873.2*	1911.6	1929.8	1821.9	1452.1
65°	287.8	295.6	386.2	598.5	854.0	1002.0	*1022.3*	1068.4	1181.5	1054.2	782.3
67.5°	192.5	197.6	243.8	365.1	503.2	512.6	*509.6*	519.5	544.1	449.2	353.4
70°	147.6	151.9	183.0	267.5	361.6	309.4	*293.0*	265.8	288.7	294.3	286.5
72.5°	107.0	110.5	133.8	182.5	226.5	197.6	*195.0*	208.9	239.9	248.6	243.8
75°	69.0	70.8	85.0	100.1	116.9	126.9	*132.0*	157.1	188.6	195.0	189.4
77.5°	46.2	47.5	55.7	64.3	66.5	66.9	*68.6*	79.8	101.4	113.5	112.2
80°	24.2	24.2	27.2	27.2	31.1	37.1	*38.8*	46.2	56.1	62.1	62.6
82.5°	9.5	9.9	11.7	12.9	15.5	19.0	*20.3*	24.2	29.3	33.7	37.5
85°	3.9	4.3	4.7	5.6	6.9	8.6	*9.1*	10.4	13.8	17.3	19.4
87.5°	0.0	0.0	0.4	0.4	0.9	1.3	*1.3*	1.7	2.2	3.9	5.2
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: P631072
CATALOG NUMBER: GWS-SA1E-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8
2.5°	955.8	950.2	955.8	957.5	962.3	964.0	961.0	960.6	960.6	956.2	955.0
5°	962.3	957.1	962.7	965.3	972.2	976.5	977.4	980.8	983.0	981.3	980.8
7.5°	978.3	971.8	977.8	981.7	990.8	997.7	1000.7	1008.5	1014.1	1013.2	1012.8
10°	1006.3	997.7	1004.6	1011.0	1021.0	1029.2	1029.6	1033.9	1039.5	1037.8	1036.9
12.5°	1038.7	1030.5	1038.2	1044.7	1056.4	1059.8	1054.2	1052.5	1053.3	1051.2	1049.5
15°	1078.4	1066.7	1073.6	1081.0	1087.4	1083.5	1071.5	1066.7	1066.3	1063.3	1061.5
17.5°	1118.1	1103.4	1108.6	1112.5	1109.4	1097.4	1082.2	1074.1	1070.2	1064.1	1062.4
20°	1157.3	1138.8	1137.9	1134.9	1121.1	1099.1	1078.8	1062.4	1052.5	1044.3	1041.3
22.5°	1202.2	1176.3	1163.4	1149.6	1119.4	1083.5	1052.9	1029.6	1013.6	1003.3	999.8
25°	1250.5	1213.9	1187.1	1159.5	1102.1	1050.3	1007.6	975.7	956.7	945.5	941.6
27.5°	1298.4	1248.0	1207.8	1160.8	1067.6	1002.4	945.0	901.9	882.9	873.8	870.8
30°	1363.2	1293.3	1232.4	1144.0	1022.3	936.0	864.3	820.7	808.2	801.8	799.2
32.5°	1437.8	1350.7	1265.2	1108.6	964.4	858.3	782.8	752.6	743.9	731.4	731.0
35°	1536.2	1432.6	1296.3	1056.4	891.5	775.0	720.2	698.6	683.1	663.2	661.5
37.5°	1651.0	1534.9	1313.1	989.9	806.5	706.4	673.6	649.4	624.4	598.1	594.6
40°	1769.7	1654.4	1314.4	911.4	723.2	661.1	633.5	602.0	570.9	541.6	537.7
42.5°	1894.4	1765.8	1291.5	820.7	655.0	621.8	593.8	554.1	519.1	499.3	497.1
45°	2005.7	1855.5	1239.8	725.4	604.6	589.0	553.2	510.5	491.9	477.7	474.7
47.5°	2093.3	1915.1	1169.8	639.9	563.6	555.4	508.8	486.8	472.5	459.6	456.5
50°	2136.5	1928.5	1078.8	570.5	525.6	515.7	483.7	466.9	457.4	447.1	444.5
52.5°	2190.0	1943.6	1000.3	512.2	488.5	475.1	463.0	449.6	442.7	436.3	434.1
55°	2312.9	2000.5	958.8	465.6	453.1	447.1	445.3	434.1	432.0	427.6	423.8
57.5°	*2363.0*	*1963.8*	*860.9*	*427.6*	*425.0*	*425.9*	*430.2*	*419.9*	*417.7*	*412.5*	*409.9*
60°	1900.4	1484.4	583.0	394.8	401.7	407.4	411.7	401.3	398.3	397.4	394.0
62.5°	1217.7	913.1	406.9	364.2	374.6	381.5	384.1	374.1	372.0	378.9	379.3
65°	633.9	497.5	330.1	331.4	340.0	350.4	355.6	352.1	351.3	358.6	359.0
67.5°	323.6	304.2	287.8	292.6	299.5	312.9	324.9	340.0	345.2	346.1	346.5
70°	275.7	267.1	258.9	261.9	269.3	276.6	288.3	295.6	287.0	284.8	283.9
72.5°	234.7	228.3	224.4	227.8	231.7	230.4	227.0	230.4	231.7	232.2	232.6
75°	182.5	177.8	174.8	175.2	175.2	170.4	164.0	160.1	155.8	152.3	152.3
77.5°	111.8	112.6	115.6	115.2	114.8	113.1	106.6	103.1	92.8	89.8	89.8
80°	63.9	65.2	68.2	69.0	69.0	66.9	60.4	56.5	51.8	49.6	49.2
82.5°	38.8	40.6	42.3	43.2	43.6	41.0	35.4	32.4	29.8	27.6	27.6
85°	20.3	21.1	22.9	23.3	22.0	19.4	16.4	15.1	12.5	12.1	12.1
87.5°	5.6	6.0	6.9	5.6	5.2	3.9	2.2	1.7	0.9	0.4	0.4
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

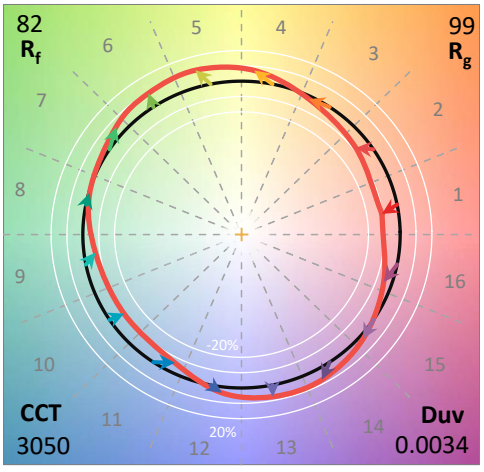
Test Information

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

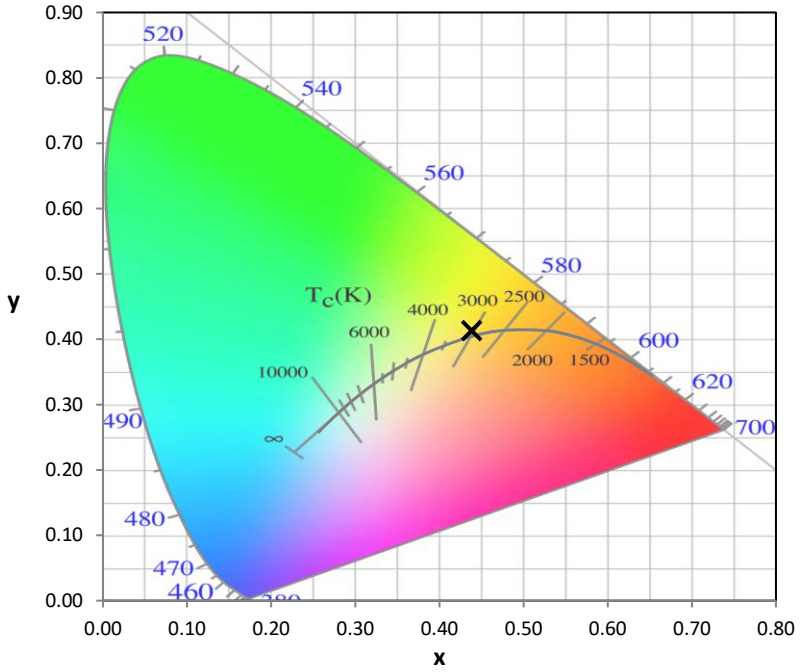
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

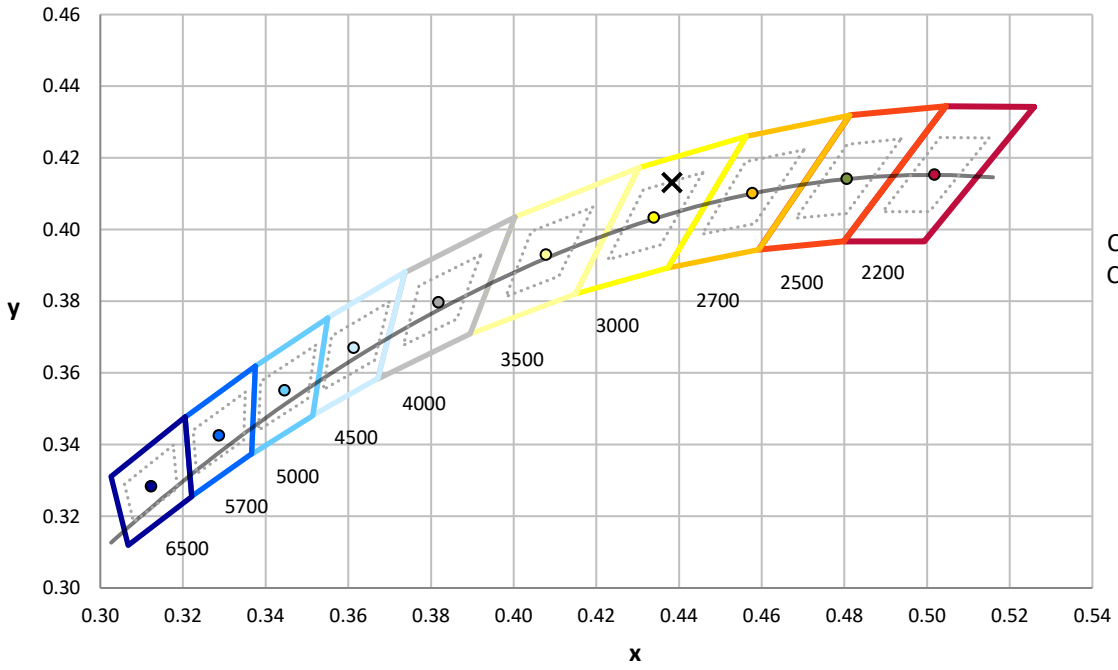
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

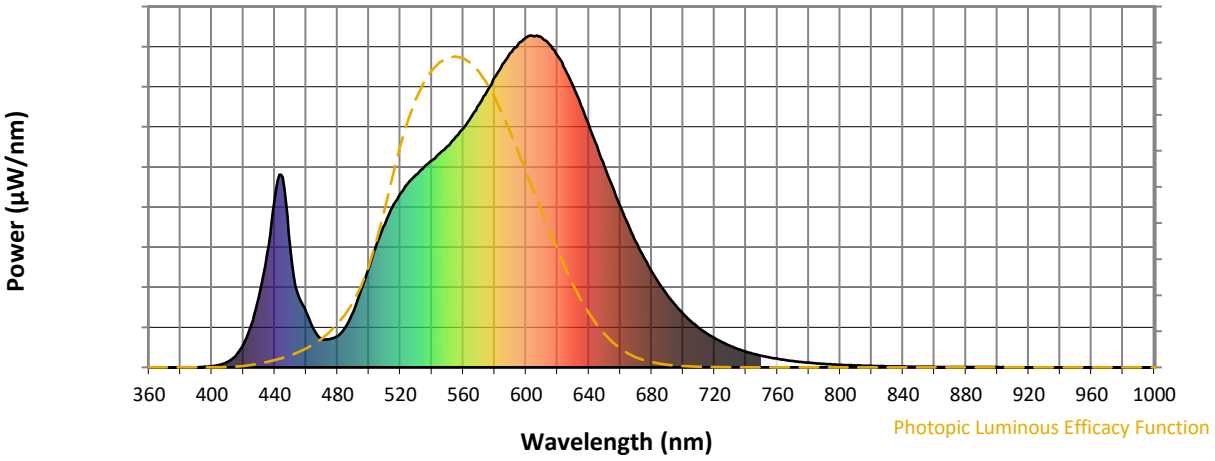


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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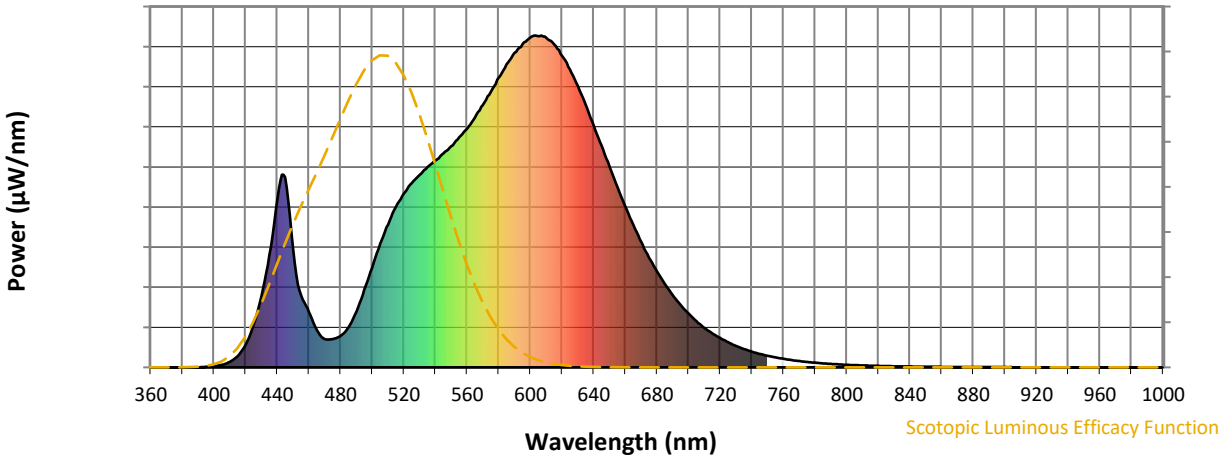
Scotopic Flux vs. Wavelength



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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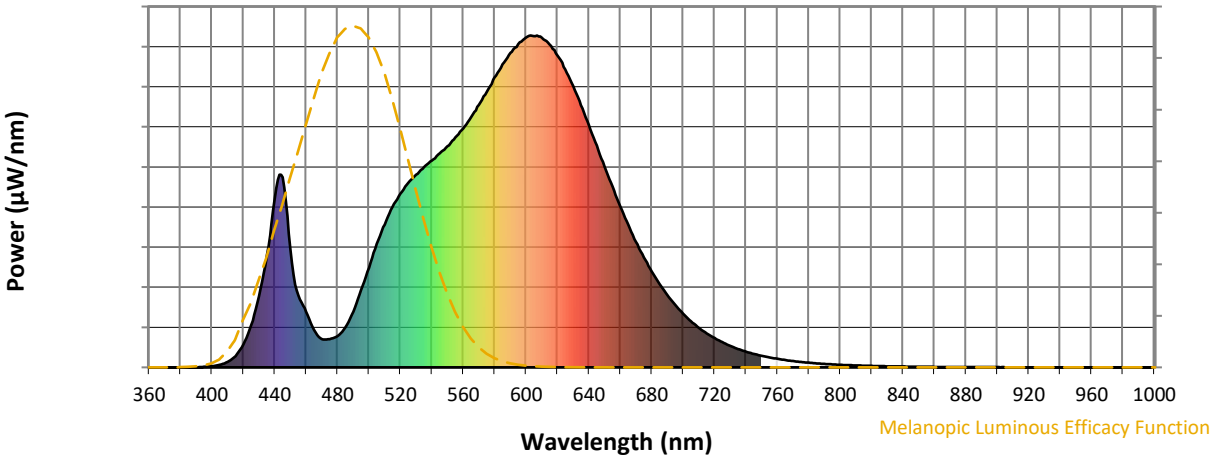
Melanopic Flux vs. Wavelength



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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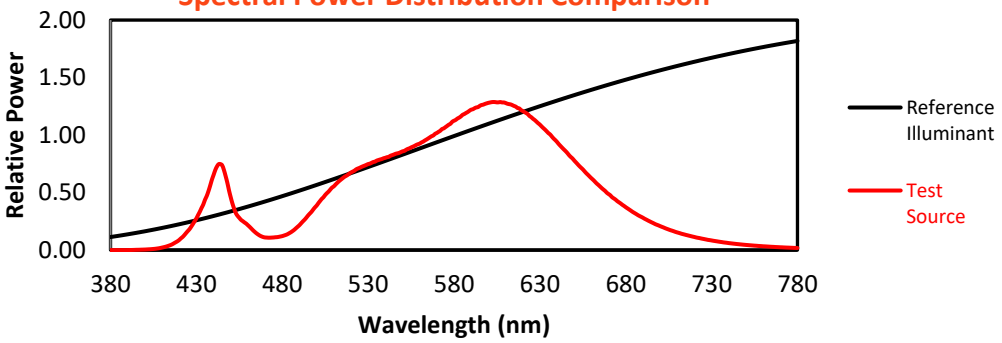
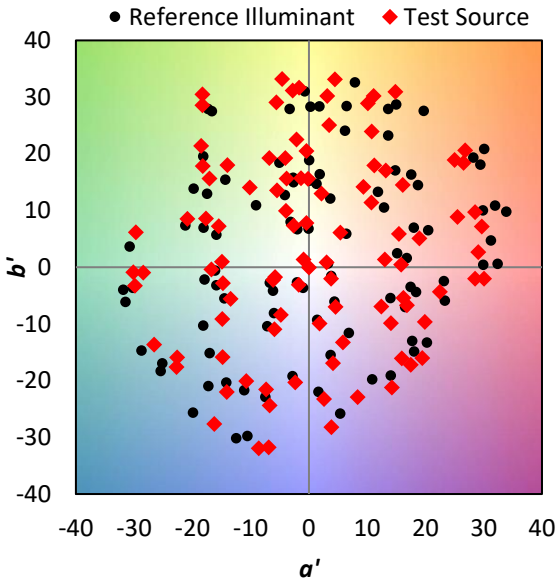
Summary

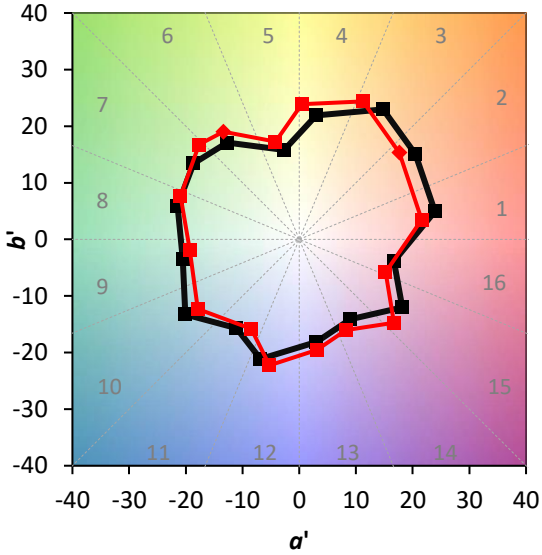
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

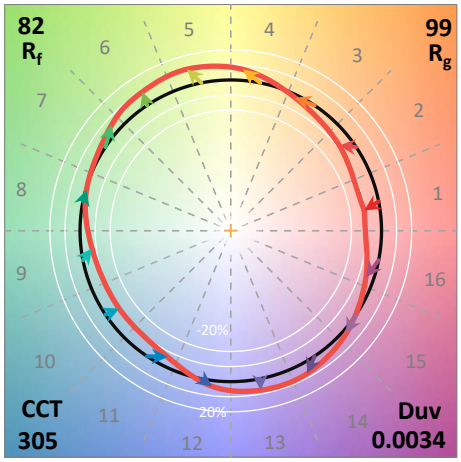
Spectral Power Distribution Comparison

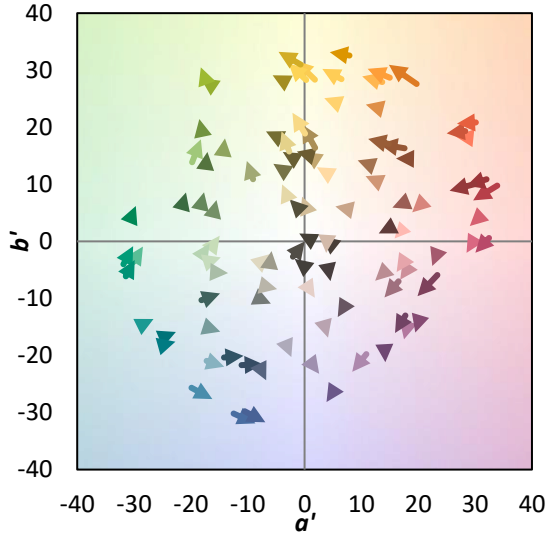


Color Vector Graphics









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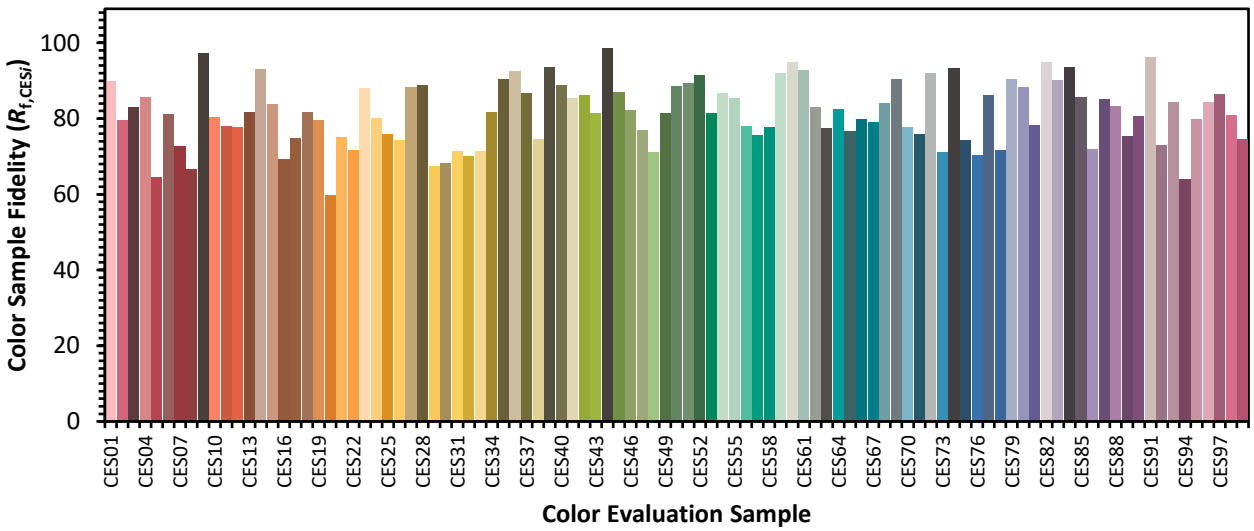
Individual Sample Fidelity Index ($R_{f,i}$)

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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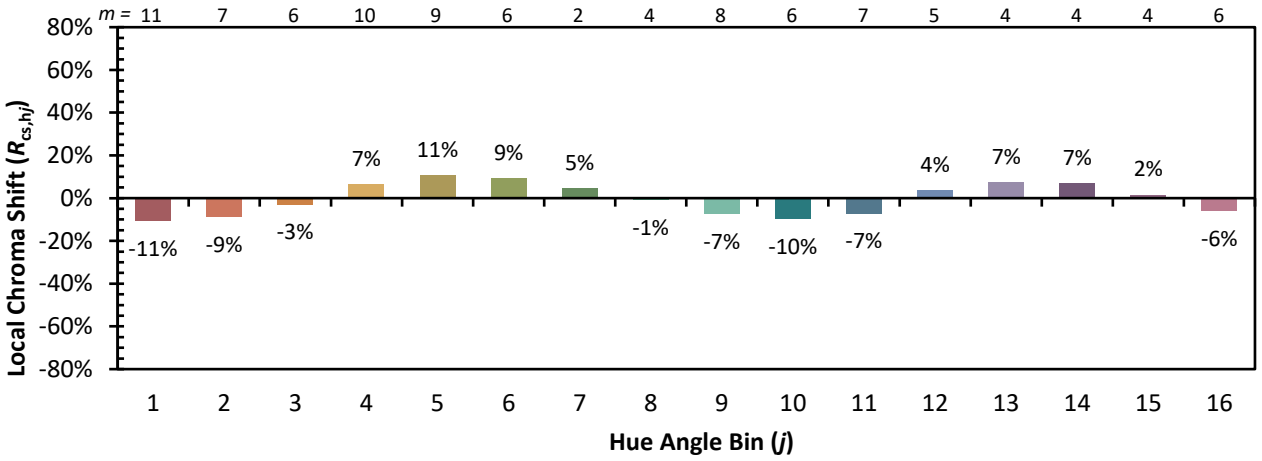
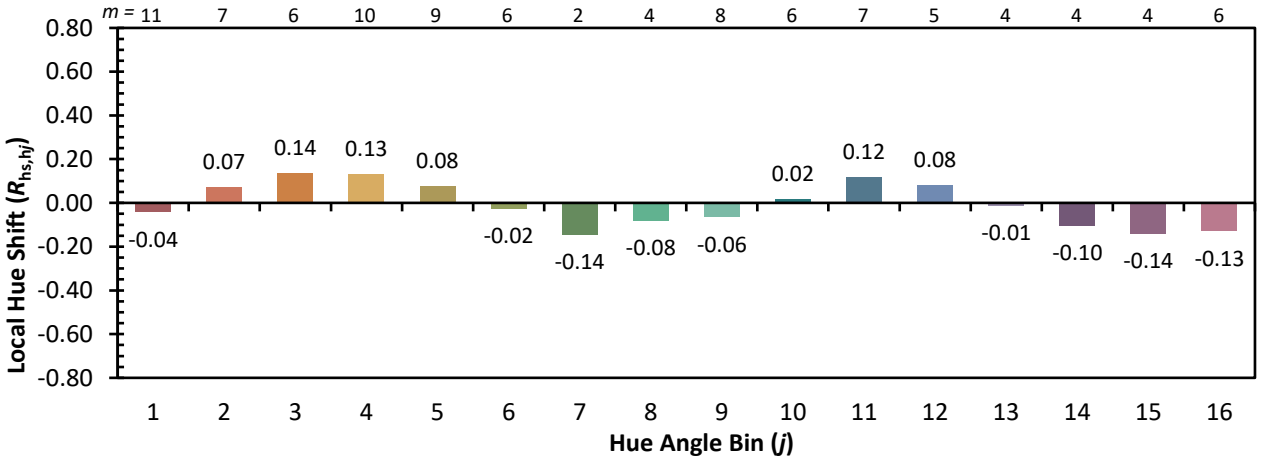
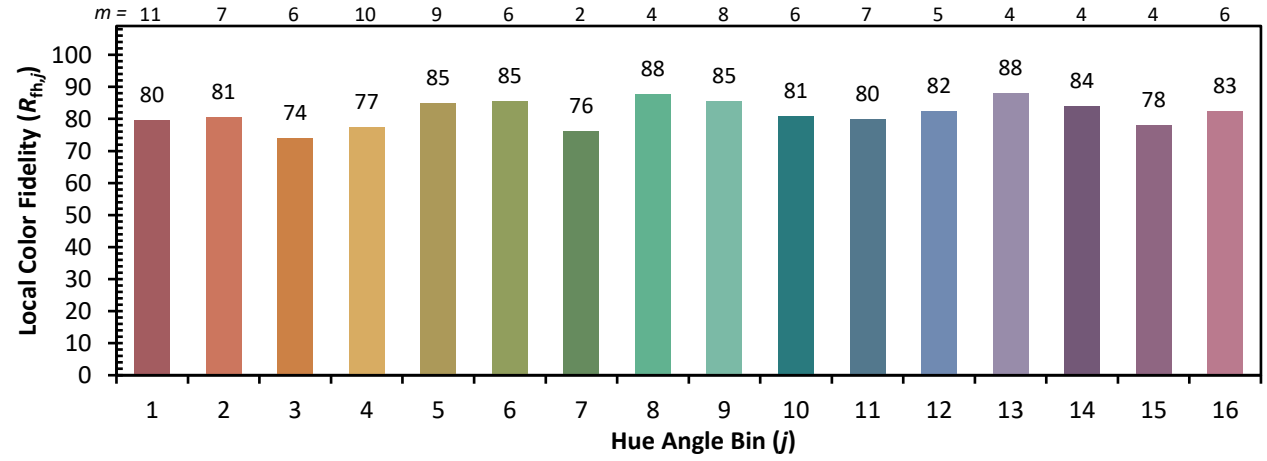
Color Rendition by Hue-Angle Bin







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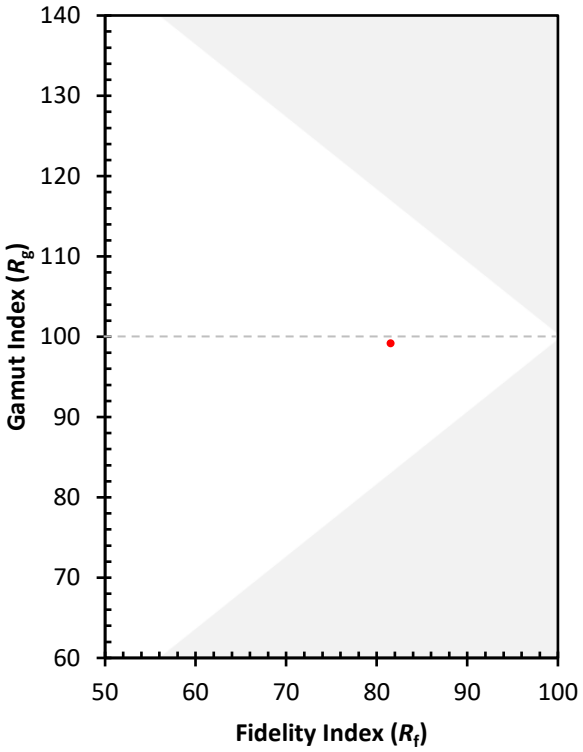
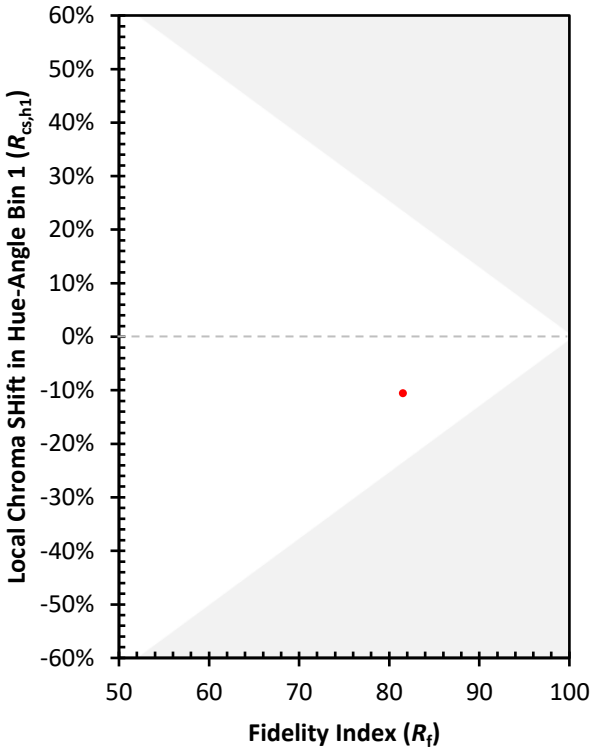
Measure Comparisons





(END OF REPORT)