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: P630550

Luminaire Tested: GWS-SA1D-830-U-SL2-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:	P630550
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1D-830-U-SL2-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR 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:	4102.7 lumens
Efficiency:	N/A
Efficacy:	92.6 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):	44.3
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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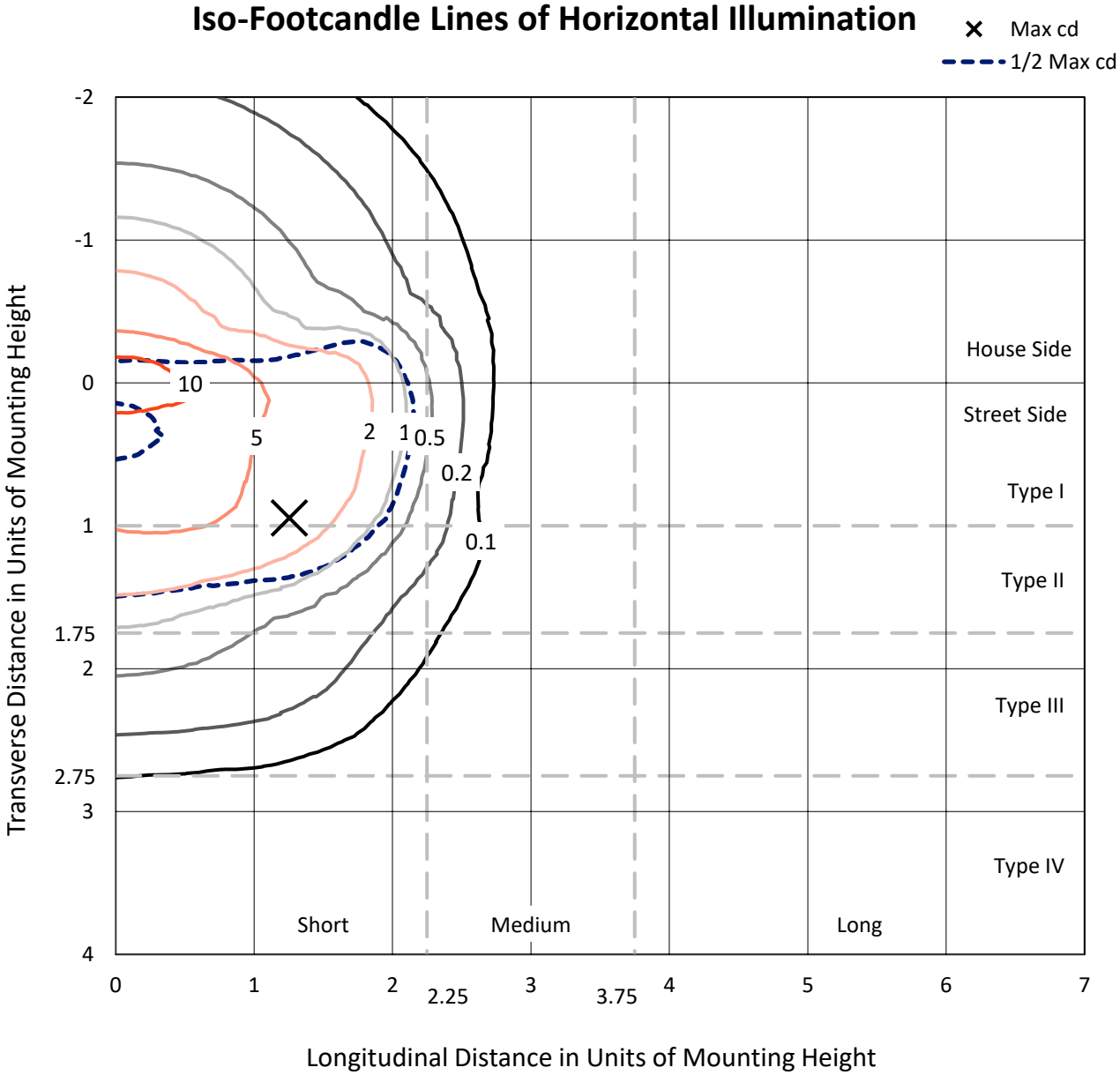
REPORT NUMBER: P630550
CATALOG NUMBER: GWS-SA1D-830-U-SL2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
Type II - Short - N/A

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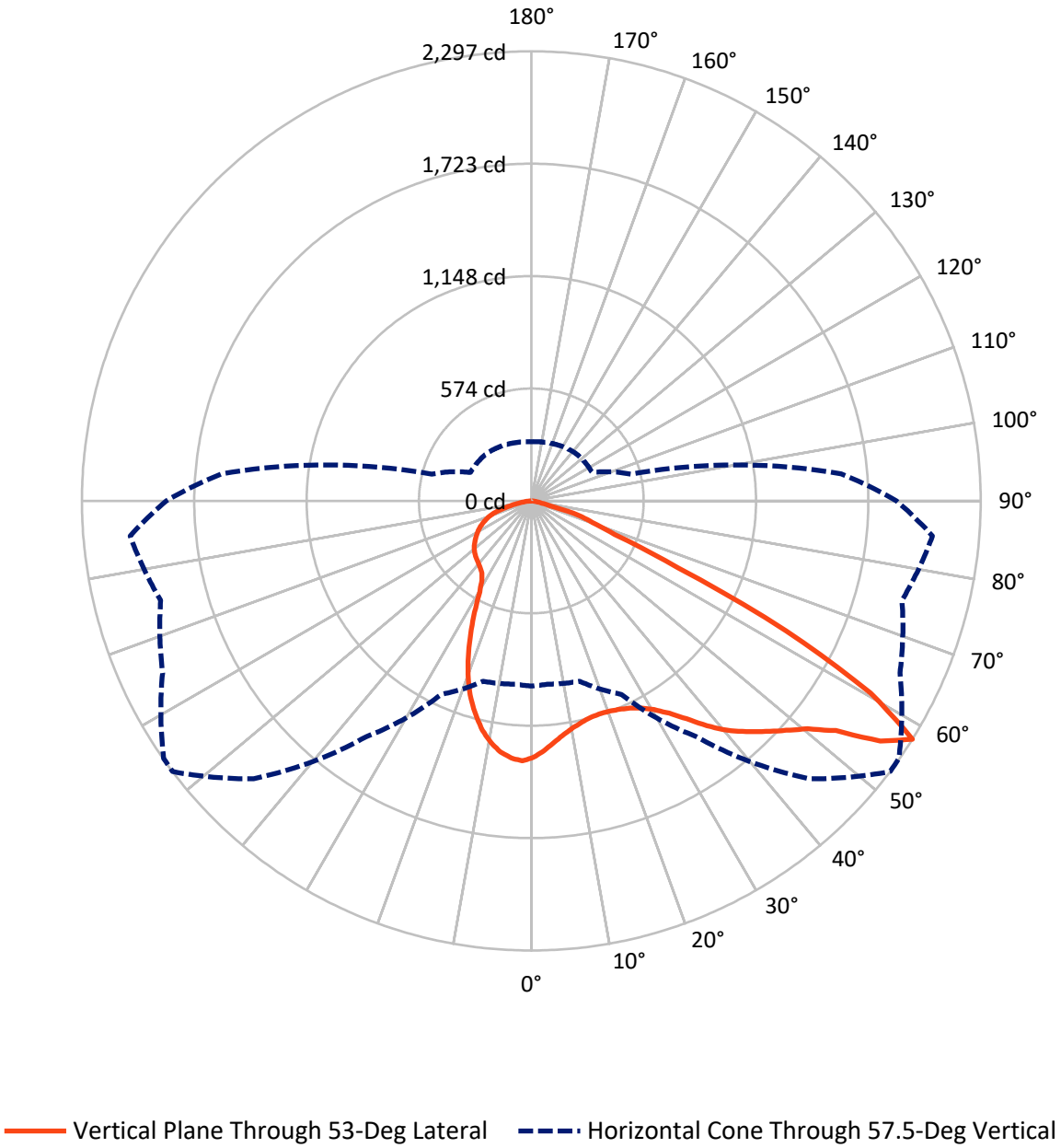
Luminous Intensity Polar Plot



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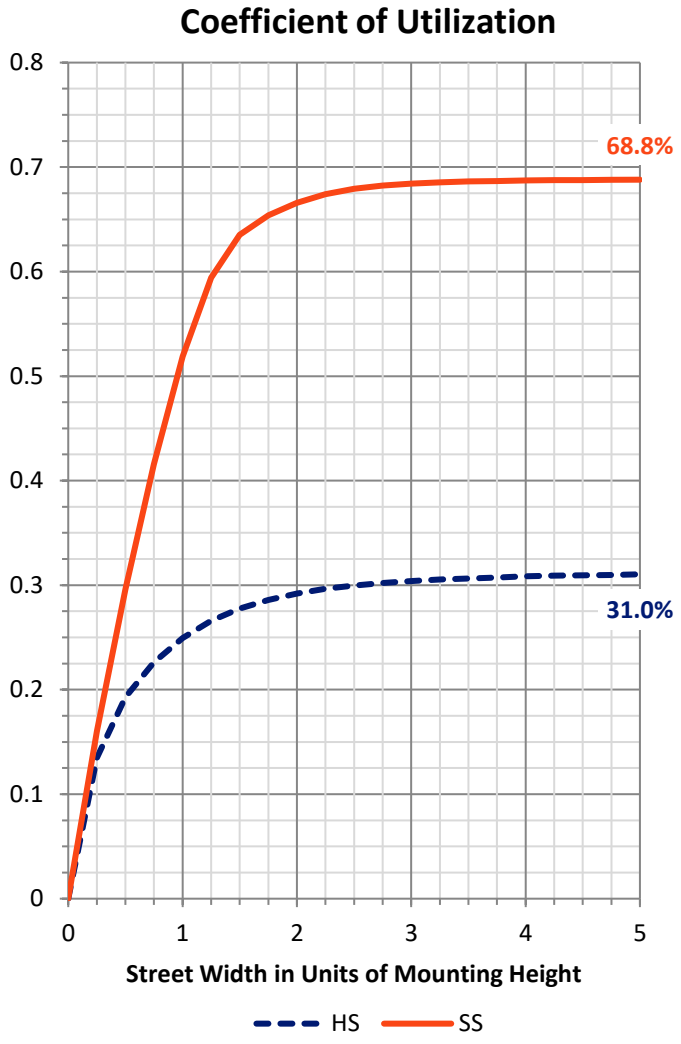
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1282.8	0.0	1282.8
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	2819.9	0.0	2819.9
	% Fixture	68.7	0.0	68.7
Total	Lumens	4102.7	0.0	4102.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	2.9
10°-20°	310.8	7.6
20°-30°	457.9	11.2
30°-40°	641.0	15.6
40°-50°	842.6	20.5
50°-60°	988.0	24.1
60°-70°	582.0	14.2
70°-80°	144.8	3.5
80°-90°	17.0	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°	4102.7	100.0
0°-180°	4102.7	100.0



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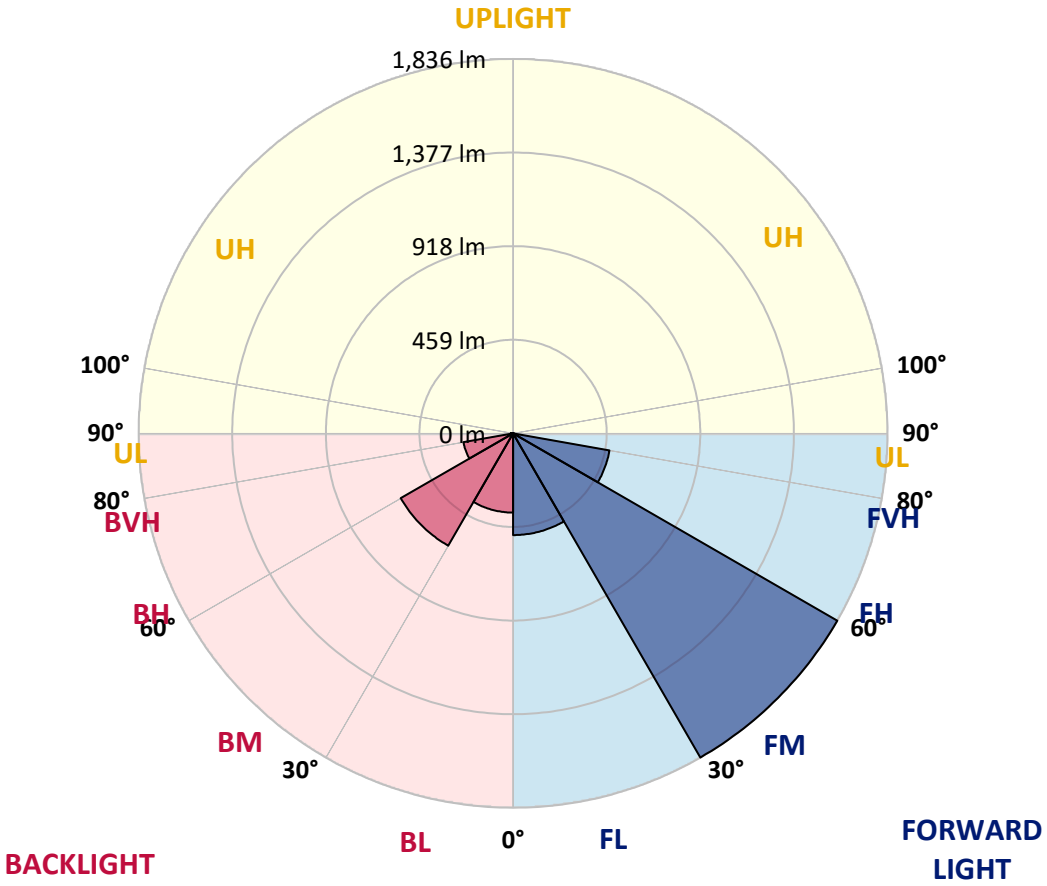
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	498.8	12.2			
FM	(30°-60°)	1835.6	44.7			
FH	(60°-80°)	479.9	11.7			G0/660
FVH	(80°-90°)	5.7	0.1			G0/10
BL	(0°-30°)	388.4	9.5	B1/500		
BM	(30°-60°)	636.1	15.5	B1/1000		
BH	(60°-80°)	247.0	6.0	B1/500		G1/500
BVH	(80°-90°)	11.3	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-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P630550
CATALOG NUMBER: GWS-SA1D-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1
2.5°	1234.8	1238.3	1239.0	1249.7	1250.4	1265.9	1276.3	1274.2	1284.9	1298.0	1308.4
5°	1175.8	1176.1	1179.6	1192.4	1199.3	1219.6	1236.9	1236.9	1257.6	1284.6	1307.7
7.5°	1127.1	1126.7	1129.9	1144.0	1155.4	1179.9	1203.4	1206.2	1235.2	1274.5	1312.2
10°	1081.9	1084.3	1087.7	1105.0	1119.5	1149.9	1177.8	1182.3	1218.9	1267.6	1318.4
12.5°	1052.8	1053.2	1058.4	1077.7	1096.4	1128.8	1158.2	1163.7	1205.8	1261.1	1322.9
15°	1034.2	1034.5	1040.1	1061.5	1083.2	1116.0	1146.1	1152.3	1198.2	1260.0	1331.5
17.5°	1025.9	1025.6	1030.7	1052.2	1076.0	1110.2	1142.3	1149.9	1201.7	1268.0	1346.7
20°	1025.9	1026.3	1029.0	1048.4	1072.5	1108.8	1146.1	1155.4	1215.1	1285.9	1370.2
22.5°	1040.4	1041.8	1043.2	1056.3	1075.3	1110.9	1156.1	1168.5	1244.1	1316.0	1400.9
25°	1068.7	1069.1	1070.5	1081.2	1089.8	1116.7	1172.7	1191.3	1289.4	1359.8	1439.6
27.5°	1106.7	1111.6	1112.9	1119.8	1119.8	1131.2	1198.6	1225.5	1350.5	1423.0	1489.0
30°	1159.9	1161.6	1164.0	1171.6	1163.3	1158.5	1236.6	1271.1	1421.3	1499.3	1548.4
32.5°	1206.5	1210.3	1223.4	1235.9	1221.0	1205.8	1292.5	1333.2	1489.3	1578.8	1611.6
35°	1246.2	1255.5	1280.8	1308.4	1298.0	1282.8	1366.7	1409.2	1545.3	1635.7	1667.5
37.5°	1294.2	1301.5	1336.0	1380.9	1390.2	1383.0	1457.2	1487.6	1582.6	1650.2	1697.9
40°	1342.9	1354.0	1398.5	1460.7	1496.2	1501.4	1540.8	1561.1	1595.3	1621.9	1692.0
42.5°	1392.6	1411.6	1472.7	1545.3	1608.5	1620.2	1611.2	1619.8	1591.2	1582.9	1664.7
45°	1453.4	1475.9	1544.9	1637.5	1720.7	1739.0	1680.3	1672.3	1590.5	1568.0	1647.8
47.5°	1525.2	1547.7	1613.6	1721.4	1827.7	1841.2	1751.1	1736.6	1614.7	1590.8	1670.6
50°	1588.8	1604.3	1663.4	1783.9	1927.5	1935.5	1829.1	1811.5	1674.7	1654.0	1741.7
52.5°	1524.2	1522.5	1584.6	1733.1	1979.3	2075.0	1949.3	1932.4	1790.8	1759.0	1851.9
55°	1293.2	1273.5	1329.1	1475.2	1834.6	2198.9	2164.7	2130.9	1945.5	1864.7	1955.1
57.5°	945.5	939.9	953.4	1090.5	1469.6	2006.9	2296.7	2293.5	2079.1	1961.4	2058.0
60°	739.3	731.0	695.1	698.9	1001.7	1567.7	1993.1	2084.6	2162.0	2019.4	2129.9
62.5°	656.4	650.2	631.6	580.1	596.7	1051.1	1461.0	1544.9	1889.2	1783.5	1829.4
65°	543.5	541.8	557.3	555.3	500.0	580.5	824.6	909.2	1187.9	1202.7	1187.9
67.5°	395.0	391.9	431.3	509.0	481.4	438.2	459.6	489.0	609.1	547.0	492.4
70°	256.9	252.4	275.2	367.8	430.9	381.9	331.2	326.3	334.9	208.2	225.1
72.5°	172.3	167.1	166.8	202.4	260.4	257.3	256.6	254.1	226.9	164.4	182.3
75°	96.0	91.9	90.8	87.4	93.2	95.0	101.2	104.6	113.3	124.7	138.1
77.5°	16.2	15.9	20.0	25.6	35.2	45.2	55.9	59.0	72.9	86.3	95.0
80°	9.0	9.3	12.1	14.8	19.7	26.9	34.5	36.6	44.9	52.1	59.0
82.5°	4.8	4.8	6.2	7.9	10.7	14.2	18.6	20.4	25.9	30.4	35.2
85°	1.7	1.7	2.4	3.1	4.5	5.9	7.3	8.3	11.4	15.5	17.6
87.5°	0.0	0.0	0.0	0.0	0.3	0.7	1.4	1.4	1.7	3.1	4.5
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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Scaled Data Report

REPORT NUMBER: P630550
CATALOG NUMBER: GWS-SA1D-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1
2.5°	1317.0	1307.7	1320.5	1326.3	1328.4	1329.8	1320.8	1314.6	1312.5	1306.0	1302.2
5°	1321.8	1315.6	1327.7	1327.7	1319.1	1310.1	1291.8	1279.0	1270.0	1259.3	1257.6
7.5°	1330.1	1325.6	1332.2	1318.7	1297.0	1272.8	1241.0	1216.2	1196.2	1183.0	1183.4
10°	1341.2	1335.7	1330.5	1300.4	1260.7	1216.2	1167.5	1131.2	1098.1	1082.9	1074.6
12.5°	1348.4	1340.5	1318.7	1269.0	1210.7	1150.9	1082.2	1028.3	980.3	958.6	956.9
15°	1357.4	1342.9	1299.4	1228.3	1147.1	1065.6	977.2	902.3	837.4	803.5	801.8
17.5°	1369.2	1345.3	1276.3	1181.6	1080.1	960.0	848.8	754.5	685.4	659.2	663.7
20°	1385.7	1348.1	1250.0	1129.9	996.9	839.8	701.3	614.7	588.1	586.3	582.9
22.5°	1404.4	1349.8	1221.0	1071.8	896.1	711.7	579.4	542.5	542.1	550.8	552.8
25°	1425.4	1351.2	1188.2	1004.2	787.0	583.9	512.4	501.4	510.0	526.3	528.3
27.5°	1452.4	1354.0	1148.5	929.9	670.9	504.5	475.5	472.7	483.1	498.3	497.6
30°	1492.1	1364.0	1106.4	844.6	551.8	466.9	453.0	453.4	457.5	464.8	465.8
32.5°	1532.5	1379.5	1065.3	748.6	483.4	445.4	439.2	438.5	438.5	441.7	442.3
35°	1570.8	1397.1	1020.7	648.5	450.3	433.0	428.9	426.8	425.8	425.1	424.0
37.5°	1592.2	1405.8	977.2	549.7	432.7	424.7	420.6	417.8	414.0	411.3	410.6
40°	1582.9	1395.7	926.8	475.8	422.0	416.8	412.0	408.2	403.0	400.6	399.2
42.5°	1551.8	1364.7	871.9	441.0	413.3	408.2	402.3	396.1	392.6	390.5	390.2
45°	1519.0	1327.0	805.6	420.6	405.0	398.8	391.9	385.0	381.2	380.2	379.8
47.5°	1518.0	1308.4	735.2	404.4	395.0	388.8	380.2	373.3	369.1	367.8	366.4
50°	1563.6	1327.4	655.7	390.2	384.7	378.1	368.4	360.8	355.7	353.9	353.6
52.5°	1658.2	1398.8	584.6	376.0	370.9	363.3	355.3	347.7	341.5	338.4	338.1
55°	1760.4	1489.7	540.4	361.5	354.6	348.1	340.8	332.5	325.6	320.8	320.1
57.5°	*1866.1*	*1588.8*	*526.9*	*343.2*	*338.1*	*333.6*	*324.9*	*316.0*	*308.0*	*303.5*	*302.5*
60°	1953.1	1674.1	552.1	323.9	321.1	315.3	307.3	298.7	293.2	289.7	289.0
62.5°	1635.0	1362.9	445.8	302.8	302.8	296.6	287.6	281.4	277.6	275.2	274.5
65°	1037.7	843.9	304.2	281.8	281.4	273.1	265.5	261.4	259.7	255.9	255.2
67.5°	452.0	385.7	260.0	260.4	259.0	250.0	242.4	239.3	235.8	231.7	231.4
70°	234.5	239.0	232.7	236.5	234.1	223.4	216.2	211.3	204.1	199.9	200.3
72.5°	189.2	194.1	201.0	206.8	201.7	193.0	181.6	175.8	166.4	161.9	162.3
75°	144.3	149.5	156.1	162.3	158.2	147.4	140.2	134.3	123.6	118.4	119.5
77.5°	99.4	102.2	110.2	109.8	108.4	105.3	94.6	87.7	76.7	70.4	71.1
80°	61.8	63.5	67.3	69.1	68.4	64.2	55.6	50.4	43.9	40.1	40.4
82.5°	37.3	38.3	41.8	42.1	41.8	38.7	32.1	28.3	24.2	22.1	22.1
85°	19.0	19.7	21.8	21.8	19.7	16.6	14.8	13.1	10.7	9.7	9.7
87.5°	5.2	5.2	6.6	5.5	4.5	4.1	2.1	1.7	0.7	0.3	0.3
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

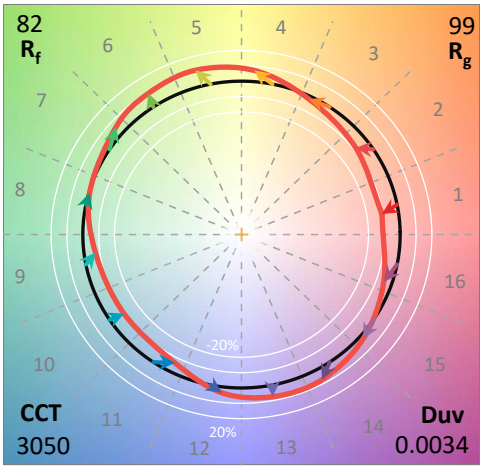
Test Information

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

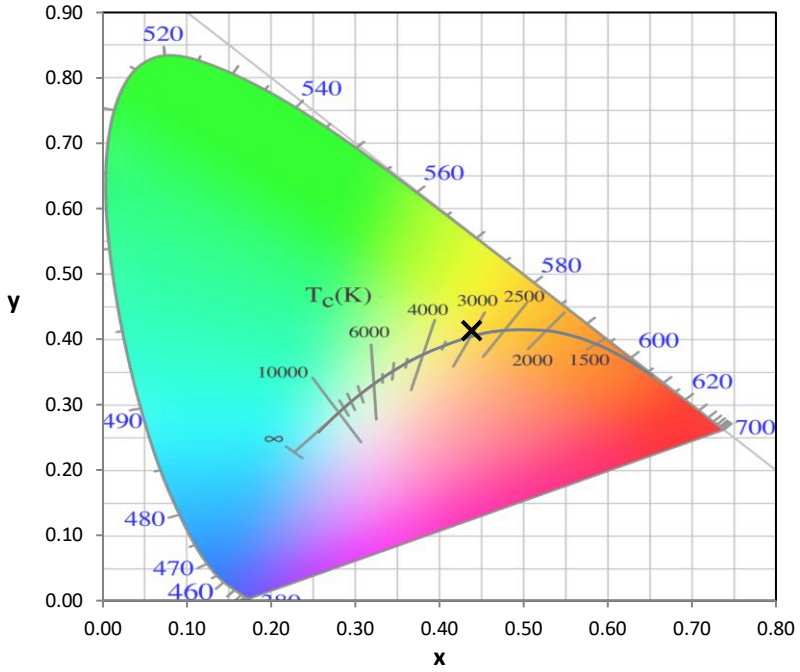
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

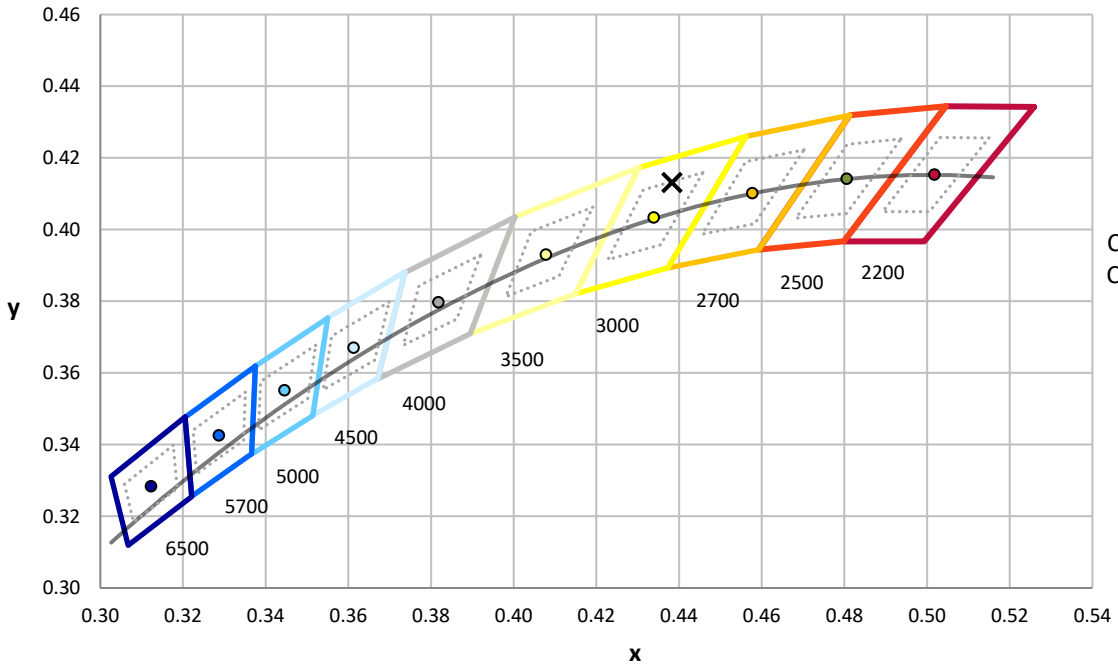
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

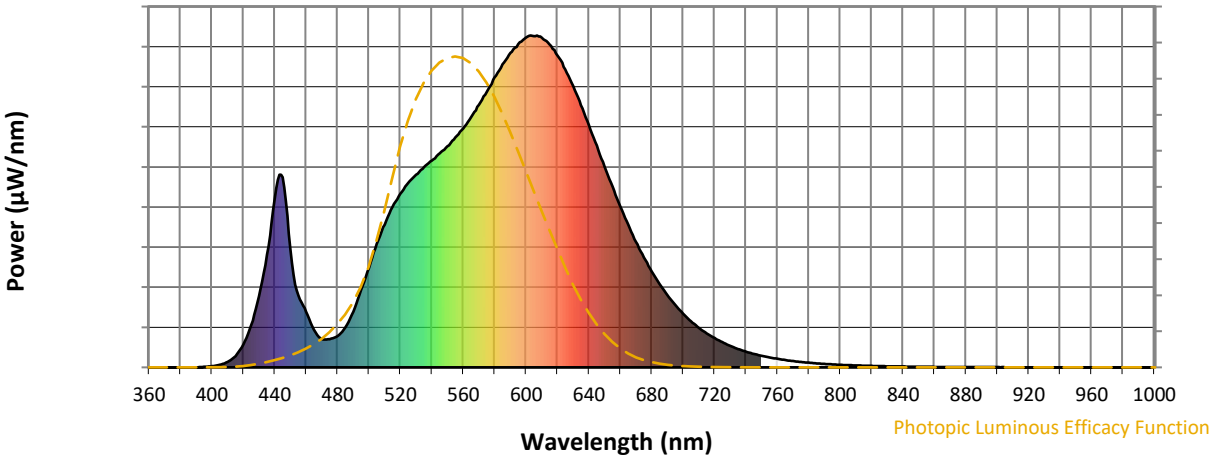


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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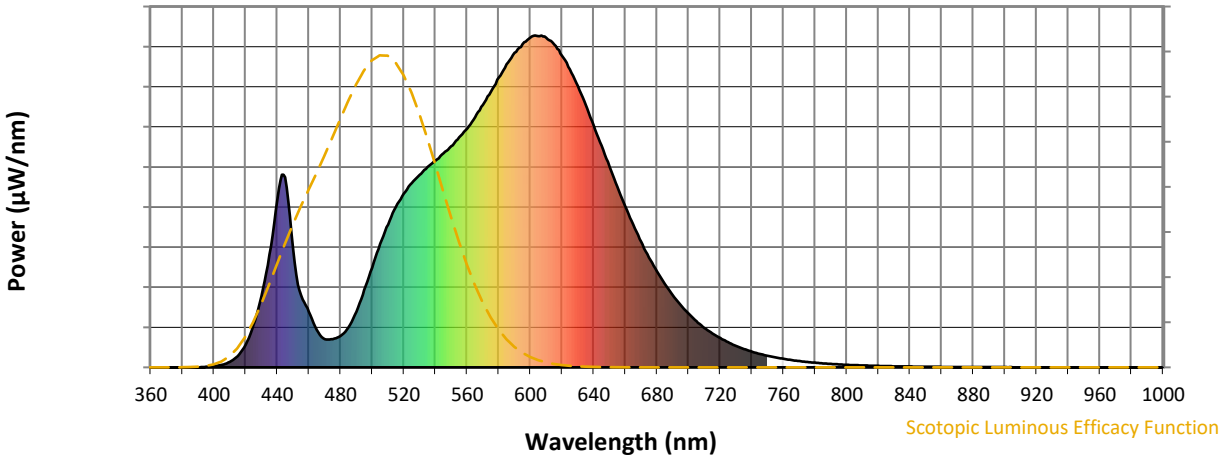
Scotopic Flux vs. Wavelength



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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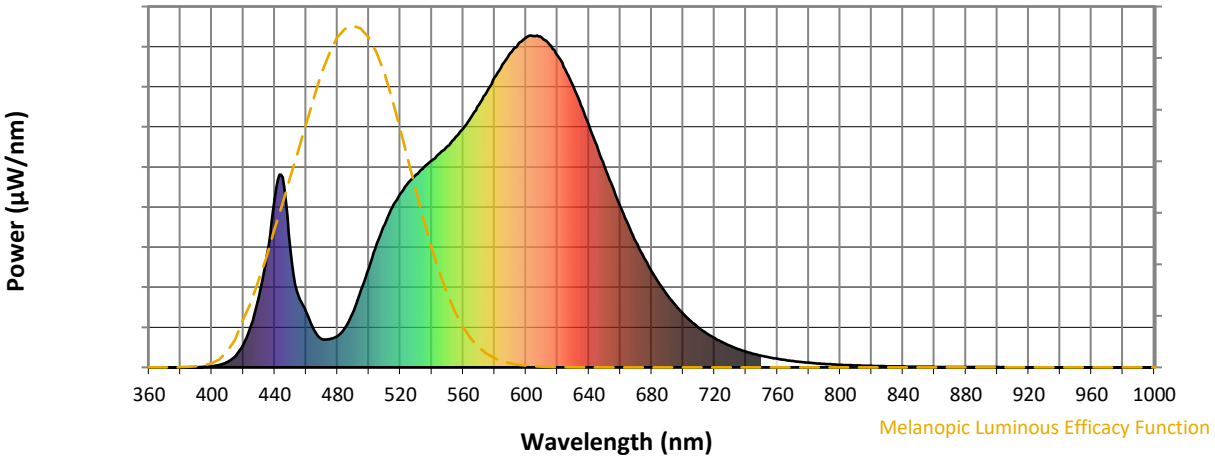
Melanopic Flux vs. Wavelength



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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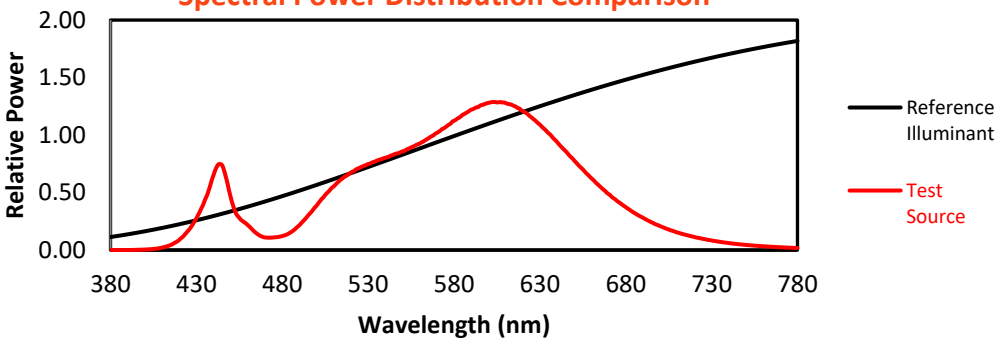
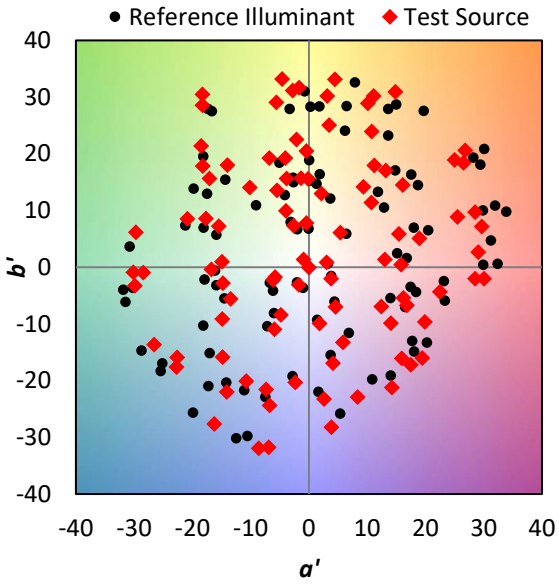
Summary

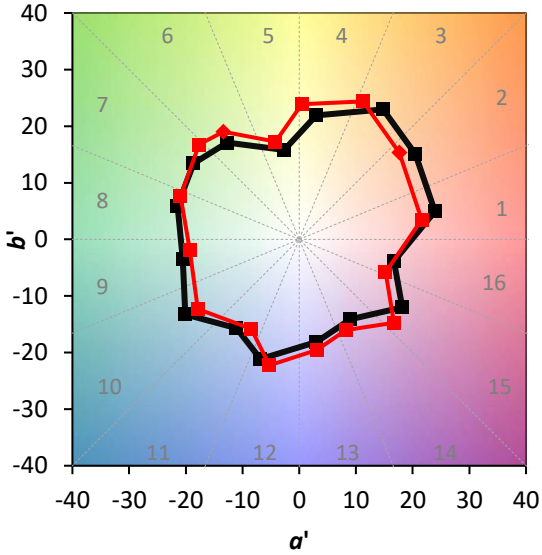
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

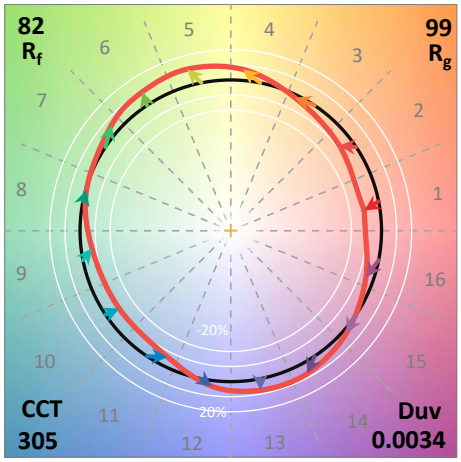
Spectral Power Distribution Comparison

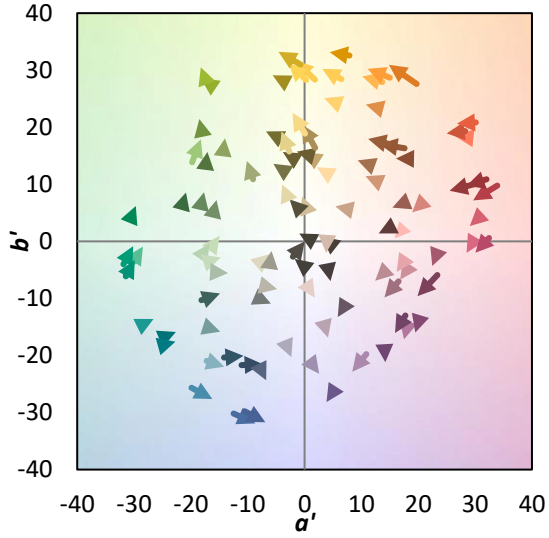


Color Vector Graphics









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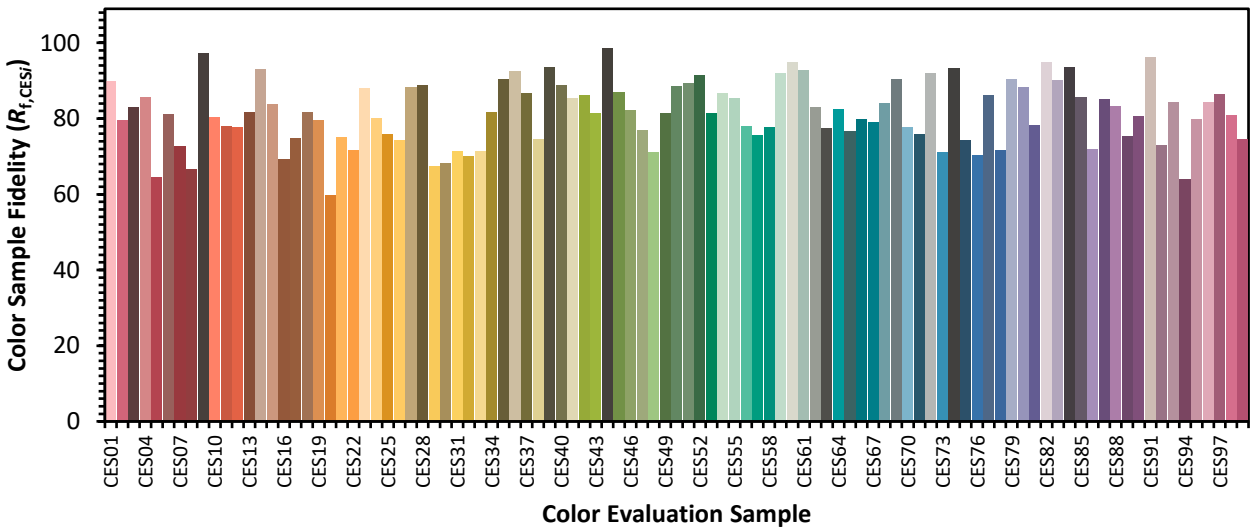
Individual Sample Fidelity Index ($R_{f,i}$)

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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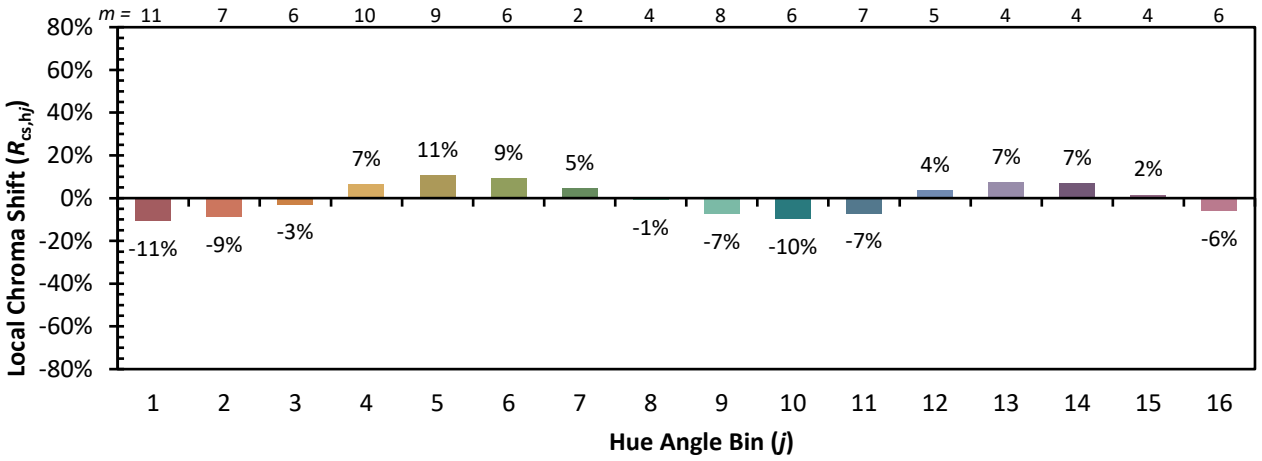
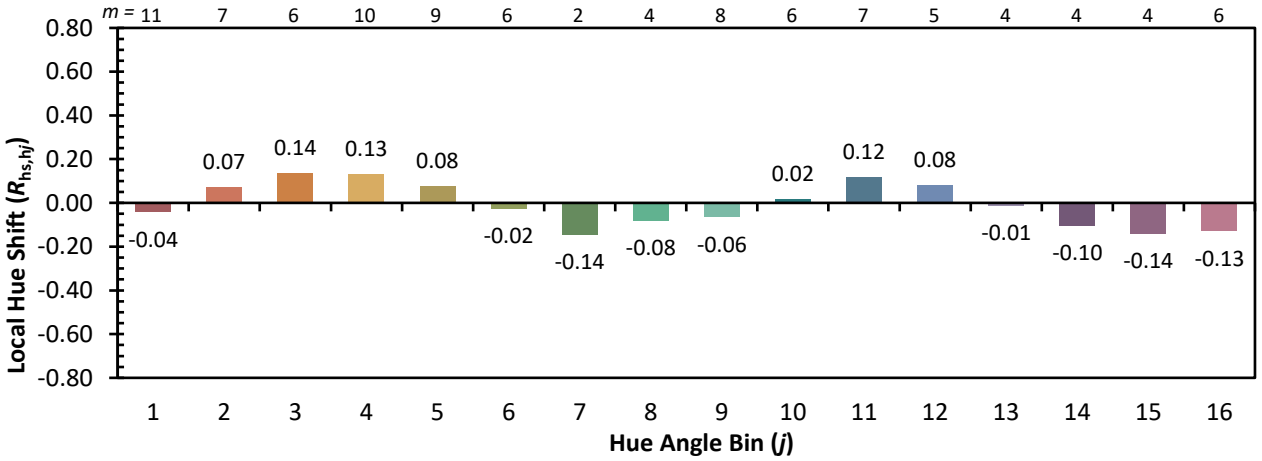
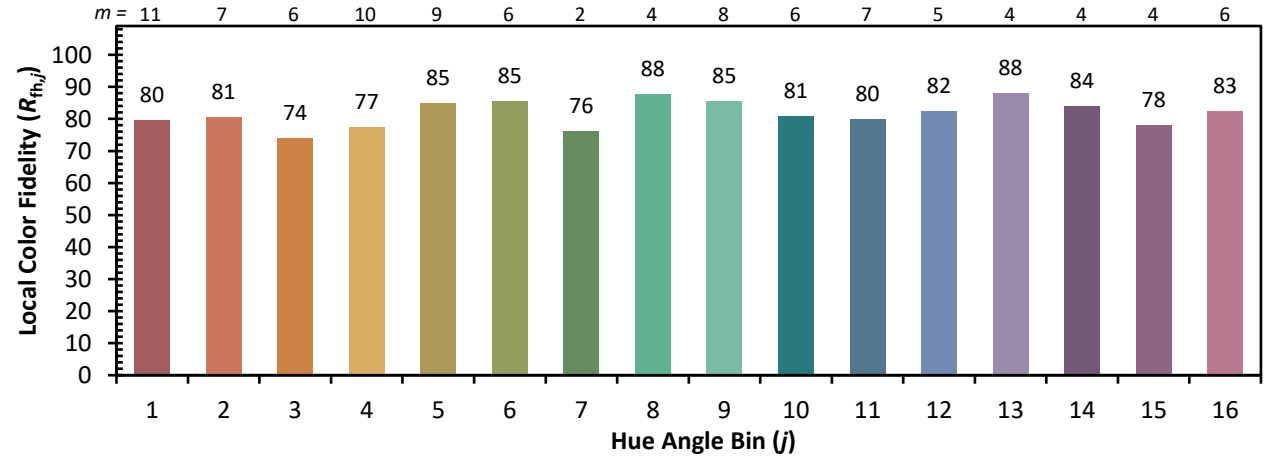
Color Rendition by Hue-Angle Bin







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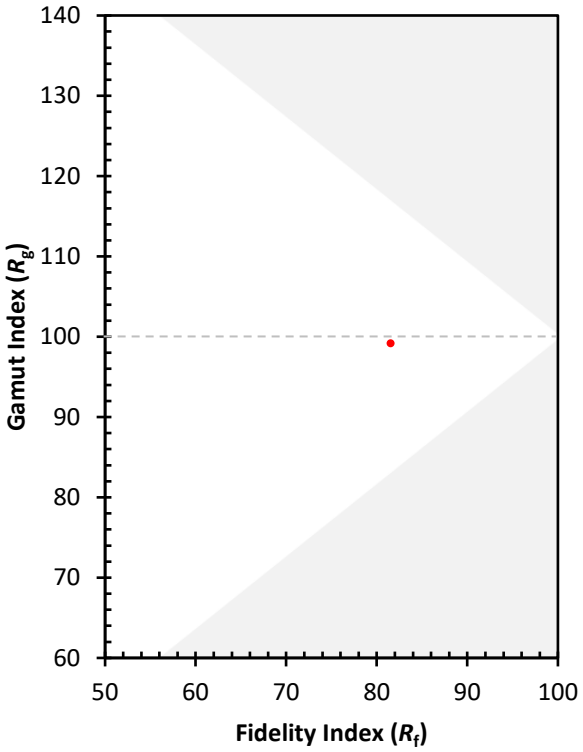
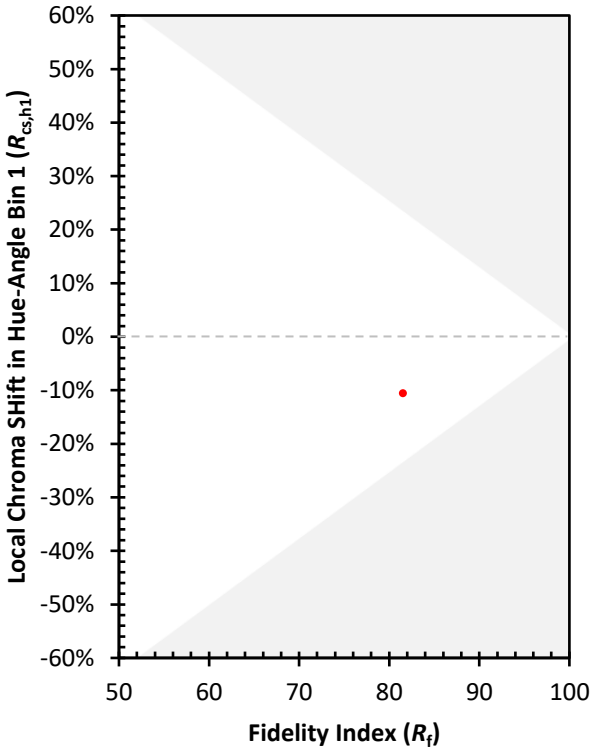
Measure Comparisons





(END OF REPORT)