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: P631042

Luminaire Tested: GWS-SA1E-830-U-RW-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:	P631042
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1E-830-U-RW-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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:	5306.5 lumens
Efficiency:	N/A
Efficacy:	90.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B2 - U0 - G0

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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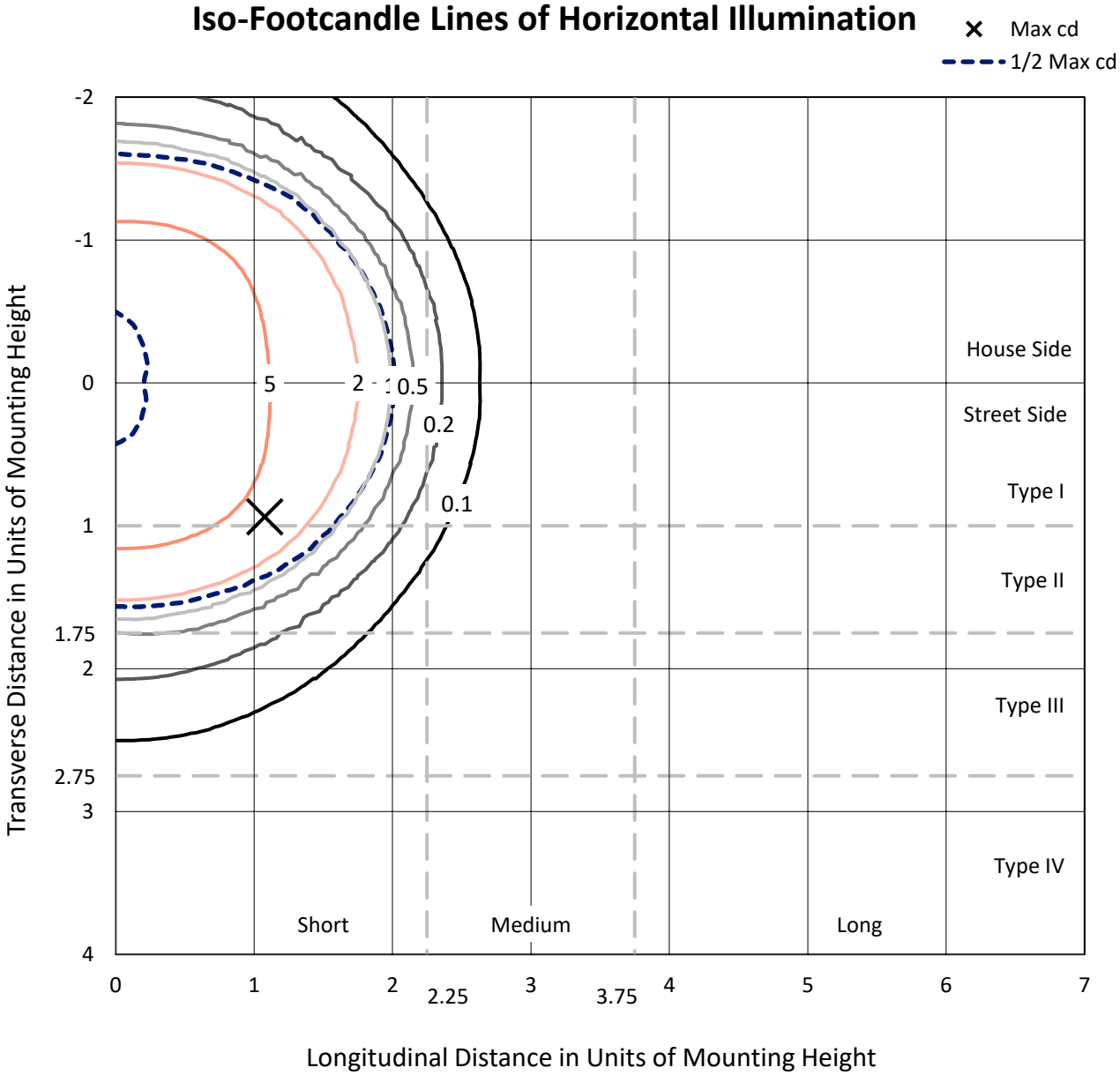
Scaled Data Report

REPORT NUMBER: P631042
CATALOG NUMBER: GWS-SA1E-830-U-RW-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
Type V - Short - N/A

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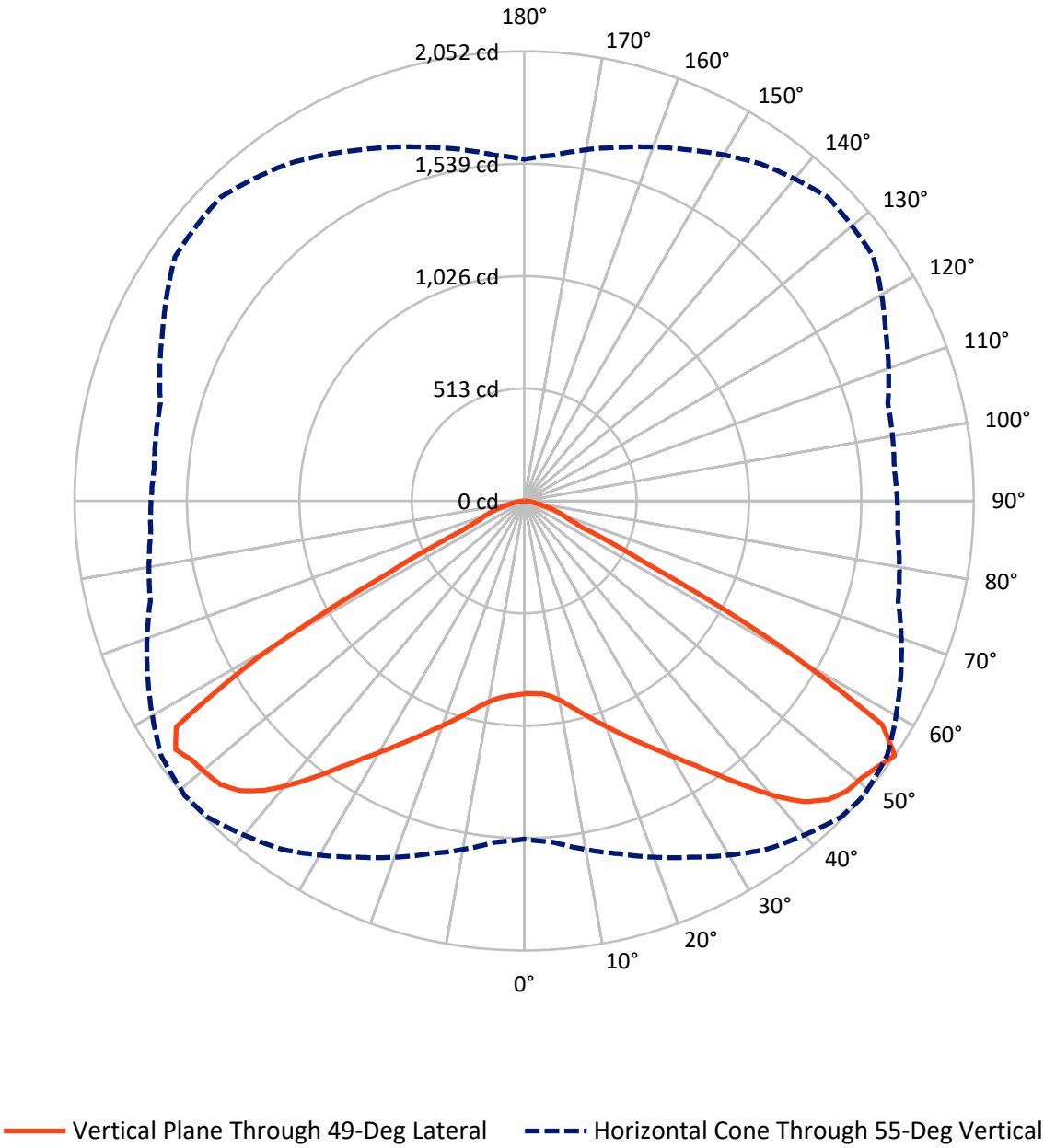
Luminous Intensity Polar Plot



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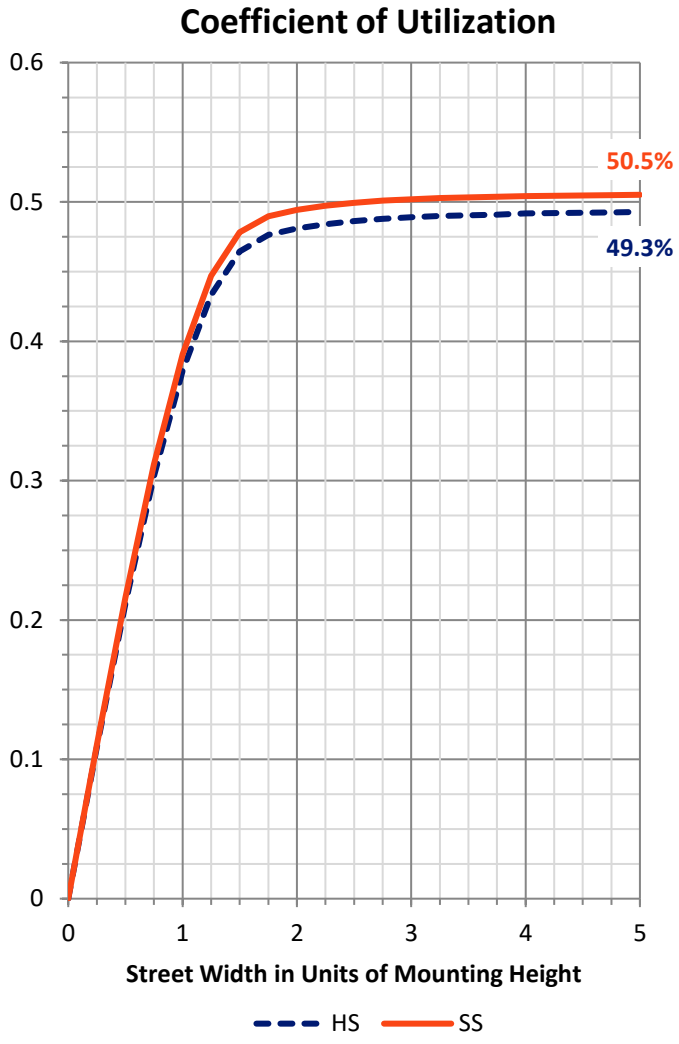
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2627.2	0.0	2627.2
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	2679.3	0.0	2679.3
	% Fixture	50.5	0.0	50.5
Total	Lumens	5306.5	0.0	5306.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.6
10°-20°	282.8	5.3
20°-30°	538.7	10.2
30°-40°	913.3	17.2
40°-50°	1374.4	25.9
50°-60°	1504.4	28.4
60°-70°	475.7	9.0
70°-80°	114.2	2.2
80°-90°	17.1	0.3
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°	5306.5	100.0
0°-180°	5306.5	100.0



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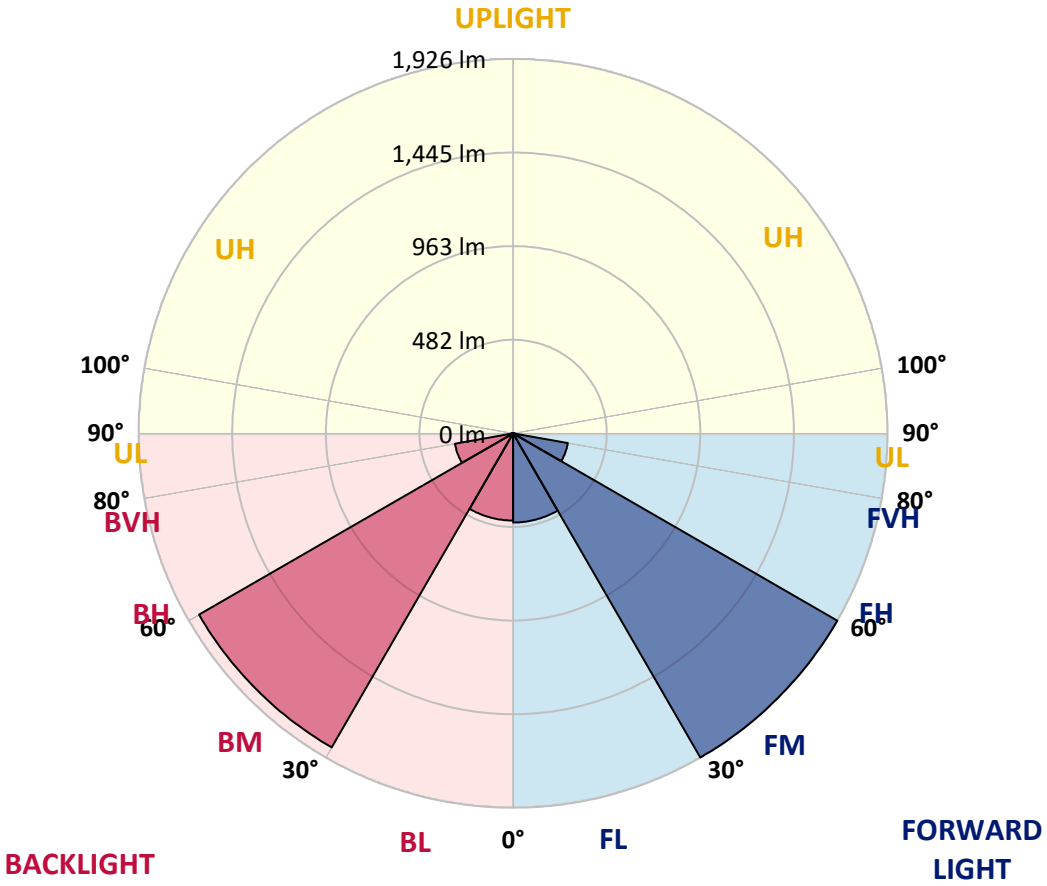
REPORT NUMBER: P631042
CATALOG NUMBER: GWS-SA1E-830-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	458.8	8.6			
FM	(30°-60°)	1926.4	36.3			
FH	(60°-80°)	286.1	5.4			G0/660
FVH	(80°-90°)	7.9	0.1			G0/10
BL	(0°-30°)	448.5	8.5	B1/500		
BM	(30°-60°)	1865.7	35.2	B2/2500		
BH	(60°-80°)	303.7	5.7	B1/500		G0/660
BVH	(80°-90°)	9.2	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
Type V Short



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Scaled Data Report

REPORT NUMBER: P631042
CATALOG NUMBER: GWS-SA1E-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	879.1	879.1	879.1	879.1	879.1	879.1	*879.1*	879.1	879.1	879.1	879.1
2.5°	866.1	867.0	868.7	871.7	874.7	879.1	*880.8*	882.9	882.5	885.1	885.1
5°	861.8	863.1	865.7	870.0	875.2	883.4	*885.5*	890.7	895.9	902.4	904.5
7.5°	867.0	868.7	871.7	878.6	886.4	897.2	*901.5*	910.1	920.1	931.7	936.4
10°	876.9	879.1	884.2	895.5	908.0	924.4	*928.2*	939.0	955.0	971.0	980.5
12.5°	888.1	891.6	901.1	918.8	937.3	958.9	*964.9*	978.3	995.6	1016.3	1029.2
15°	901.1	904.1	918.8	943.8	972.7	1001.2	*1008.1*	1021.0	1040.5	1060.7	1078.9
17.5°	928.2	933.4	950.7	979.6	1013.3	1046.9	*1054.7*	1069.4	1084.9	1100.9	1118.1
20°	965.4	969.7	991.7	1027.5	1067.2	1097.8	*1105.6*	1118.6	1125.9	1134.1	1148.8
22.5°	1002.5	1008.5	1033.5	1075.8	1122.4	1155.7	*1161.7*	1173.8	1168.6	1166.0	1175.5
25°	1048.7	1056.8	1081.4	1127.6	1175.1	1216.1	*1220.8*	1231.2	1222.6	1209.2	1208.8
27.5°	1106.0	1113.4	1138.8	1186.3	1233.4	1276.1	*1285.1*	1298.9	1280.0	1263.6	1251.9
30°	1174.2	1179.0	1207.0	1257.5	1305.9	1346.4	*1358.1*	1371.9	1357.6	1330.4	1318.8
32.5°	1253.6	1260.1	1292.5	1345.6	1388.7	1429.3	*1440.9*	1458.2	1442.6	1412.0	1397.3
35°	1349.0	1355.5	1389.6	1447.4	1491.4	1533.3	*1541.5*	1555.7	1536.3	1500.9	1489.3
37.5°	1452.6	1460.8	1503.9	1558.7	1604.9	1653.7	*1654.1*	1658.4	1630.8	1586.8	1573.8
40°	1569.1	1579.9	1623.0	1680.0	1735.7	1775.4	*1774.9*	1762.9	1716.2	1648.1	1628.2
42.5°	1684.3	1692.9	1736.5	1795.2	1850.9	1888.4	*1877.2*	1847.9	1780.5	1687.8	1661.4
45°	1767.6	1774.1	1819.8	1885.8	1942.4	1965.7	*1945.4*	1910.0	1819.0	1712.8	1674.0
47.5°	1806.9	1815.5	1861.7	1927.3	1991.1	2004.5	*1980.4*	1947.1	1841.4	1736.1	1683.9
50°	1785.7	1796.9	1849.2	1910.0	1982.1	2009.7	*1992.4*	1959.2	1865.1	1759.0	1701.6
52.5°	1730.9	1741.7	1807.7	1881.5	1963.1	2017.9	*2017.5*	1990.3	1892.3	1765.4	1702.4
55°	*1543.6*	*1564.8*	*1667.5*	*1794.8*	*1939.8*	*2042.1*	*2052.4*	*2023.5*	*1896.6*	*1767.2*	*1711.5*
57.5°	1004.6	1041.7	1139.3	1305.0	1595.8	1857.4	*1927.3*	1934.2	1865.6	1759.8	1713.2
60°	419.5	449.2	526.5	636.5	876.9	1188.0	*1323.5*	1459.5	1623.5	1683.0	1697.3
62.5°	260.7	263.2	271.0	296.0	376.3	528.2	*615.4*	742.7	986.5	1194.1	1289.9
65°	235.2	236.5	238.2	236.5	240.4	258.9	*282.2*	326.7	425.9	529.1	651.6
67.5°	207.1	208.9	210.2	208.9	210.2	211.0	*213.6*	217.5	235.6	250.3	261.5
70°	167.4	170.0	172.2	171.3	176.5	176.5	*179.1*	182.1	191.2	202.0	209.7
72.5°	127.7	125.6	128.2	129.0	133.8	136.4	*140.3*	143.7	154.1	160.5	170.5
75°	82.9	80.7	84.6	86.7	93.2	96.7	*100.1*	103.6	110.9	115.2	124.7
77.5°	44.9	44.4	48.3	51.4	58.3	62.6	*65.2*	67.8	73.8	75.1	81.1
80°	25.9	25.9	28.5	30.6	35.0	39.7	*42.3*	44.4	48.8	50.1	52.6
82.5°	14.2	14.2	15.5	16.8	20.3	22.9	*25.0*	26.8	30.6	31.9	33.2
85°	6.9	6.5	7.3	8.2	9.5	10.8	*12.1*	12.9	16.0	16.8	18.6
87.5°	0.9	0.9	0.9	1.3	1.7	2.6	*3.0*	3.0	4.7	5.6	6.5
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: P631042
CATALOG NUMBER: GWS-SA1E-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	879.1	879.1	879.1	879.1	879.1	879.1	879.1	879.1	879.1	879.1	879.1
2.5°	887.7	882.1	885.5	886.8	886.8	885.5	879.9	878.2	875.6	871.7	871.7
5°	907.5	903.2	904.1	901.9	896.7	890.3	879.9	874.7	870.4	865.7	865.2
7.5°	941.6	936.0	935.2	927.0	913.1	899.3	883.8	874.3	867.8	861.8	861.4
10°	986.1	980.9	974.4	958.0	937.7	917.5	896.3	883.4	873.9	865.2	864.8
12.5°	1035.7	1029.7	1017.6	993.4	968.0	948.1	923.9	904.1	889.8	878.2	876.0
15°	1089.6	1081.0	1060.3	1031.8	1006.8	985.6	959.8	931.3	909.7	891.1	889.0
17.5°	1131.1	1119.9	1097.4	1070.7	1049.9	1028.8	995.1	959.3	928.2	904.9	901.5
20°	1159.6	1150.5	1125.0	1105.2	1093.1	1074.5	1035.3	994.7	959.8	930.4	928.7
22.5°	1185.9	1175.1	1150.1	1138.4	1138.4	1125.9	1088.4	1040.5	999.5	965.4	961.0
25°	1215.7	1204.0	1185.0	1183.7	1189.8	1184.2	1138.8	1087.5	1039.6	1001.2	994.3
27.5°	1257.1	1244.1	1232.9	1240.7	1249.3	1243.3	1192.8	1133.2	1082.7	1043.9	1037.9
30°	1323.1	1307.1	1296.8	1306.3	1323.1	1305.4	1250.6	1187.6	1136.7	1094.0	1090.9
32.5°	1399.9	1381.8	1371.0	1386.1	1401.2	1373.6	1319.2	1258.8	1205.3	1160.4	1155.2
35°	1492.3	1469.4	1453.4	1473.7	1489.3	1462.1	1408.1	1350.7	1291.2	1244.6	1237.7
37.5°	1574.3	1546.7	1535.9	1564.3	1585.1	1567.4	1508.7	1454.7	1389.6	1338.6	1335.6
40°	1633.8	1606.6	1598.9	1645.9	1682.2	1677.8	1625.2	1563.5	1502.2	1443.5	1437.9
42.5°	1659.7	1640.7	1642.5	1705.9	1762.0	1789.6	1742.6	1676.5	1617.4	1556.6	1552.7
45°	1665.3	1653.7	1667.5	1746.9	1820.7	1877.2	1837.1	1781.8	1715.0	1656.3	1654.5
47.5°	1671.4	1664.9	1686.0	1770.2	1857.8	1923.4	1900.9	1844.0	1776.2	1718.8	1714.5
50°	1685.6	1683.0	1706.8	1786.6	1875.5	1935.9	1910.4	1853.9	1784.4	1727.9	1717.5
52.5°	1689.9	1685.6	1719.7	1812.1	1904.8	1935.5	1880.7	1806.9	1737.0	1674.0	1663.2
55°	*1703.3*	*1695.5*	*1718.8*	*1821.5*	*1945.4*	*1960.5*	*1878.9*	*1768.5*	*1670.9*	*1585.1*	*1559.6*
57.5°	1706.8	1698.1	1713.2	1806.0	1901.4	1888.0	1651.5	1427.1	1243.3	1147.9	1158.7
60°	1688.2	1690.8	1664.9	1654.5	1525.1	1346.4	1011.1	808.3	634.8	561.4	577.4
62.5°	1285.1	1295.9	1207.5	1049.9	807.4	640.0	423.3	328.8	278.3	265.4	267.6
65°	648.6	663.3	571.4	472.5	351.3	284.0	245.5	237.8	235.2	232.2	232.2
67.5°	256.8	261.1	257.6	241.2	224.4	218.4	216.6	215.8	212.8	211.0	211.5
70°	206.3	209.7	204.6	194.2	187.3	186.9	186.0	184.3	182.1	182.1	183.4
72.5°	168.3	171.8	164.4	157.9	152.8	148.9	146.7	145.4	142.4	142.4	143.7
75°	123.9	126.0	120.0	119.1	113.5	109.6	106.2	104.4	100.5	98.8	100.1
77.5°	82.4	82.0	79.0	79.0	76.8	72.1	68.2	64.3	59.1	55.7	56.5
80°	53.5	53.5	52.2	52.2	50.1	46.2	41.4	37.5	34.5	31.9	31.9
82.5°	34.1	33.7	33.2	32.8	31.9	28.1	24.6	22.0	19.9	18.1	18.6
85°	19.0	19.0	18.1	18.1	16.4	14.2	12.5	10.8	9.5	9.1	9.1
87.5°	6.5	6.5	6.0	6.0	5.2	3.9	3.0	2.6	2.2	1.7	2.2
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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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

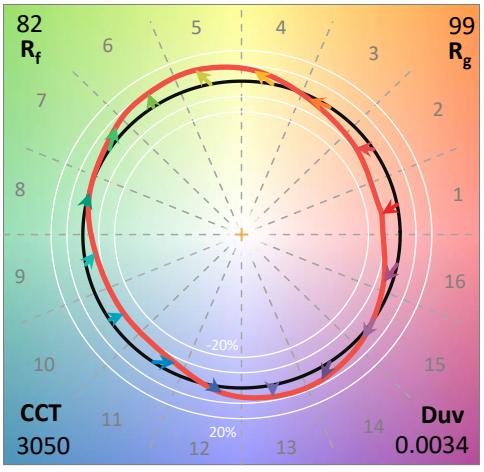
Test Information

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

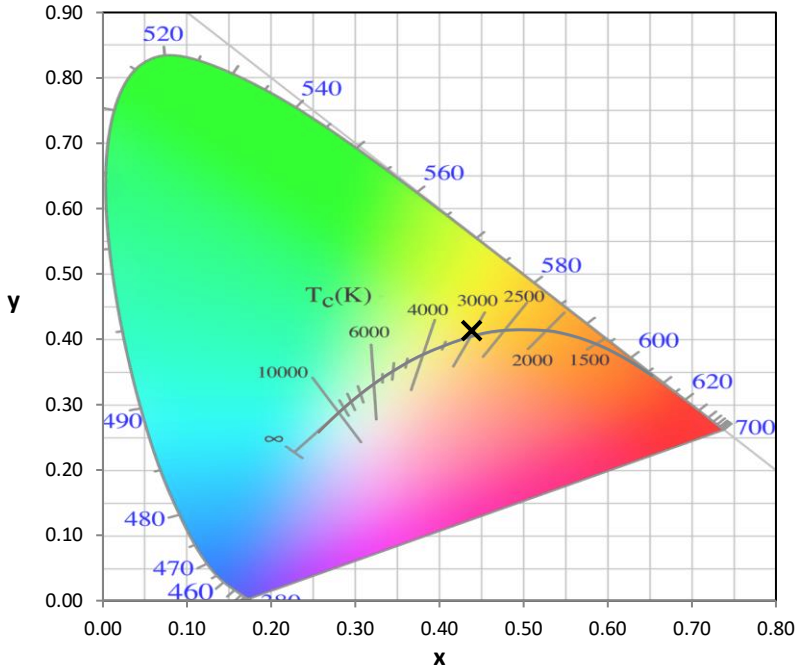
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

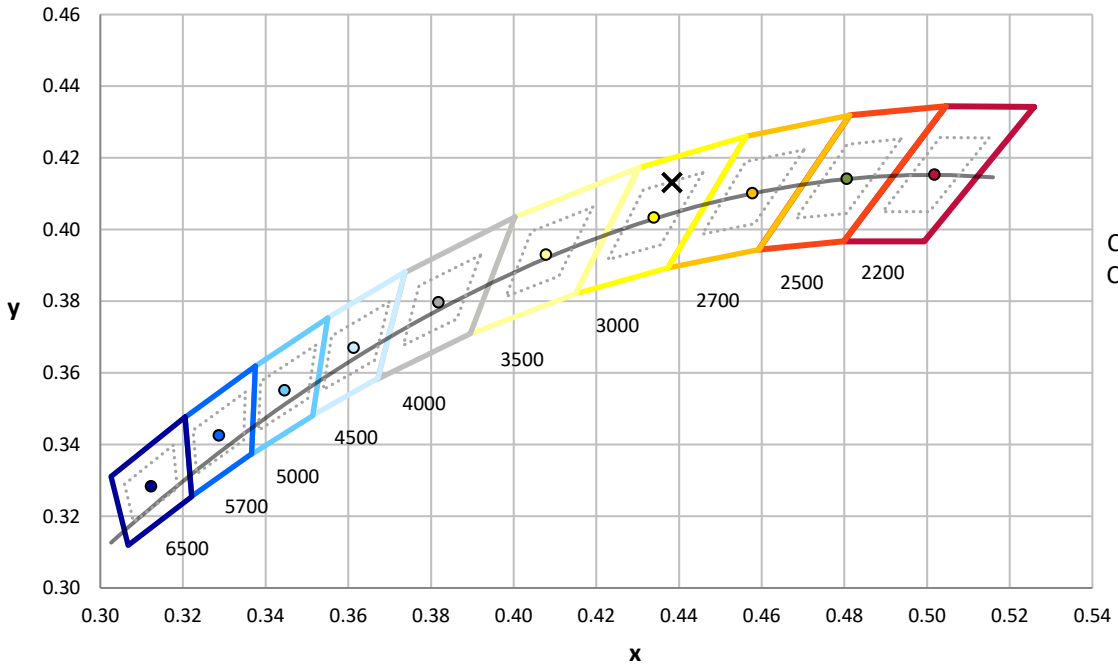
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

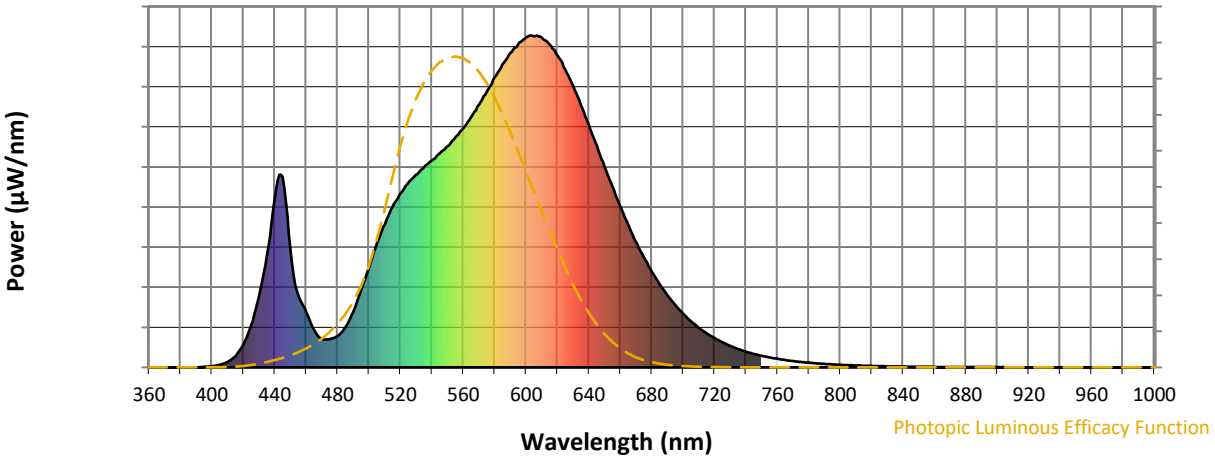


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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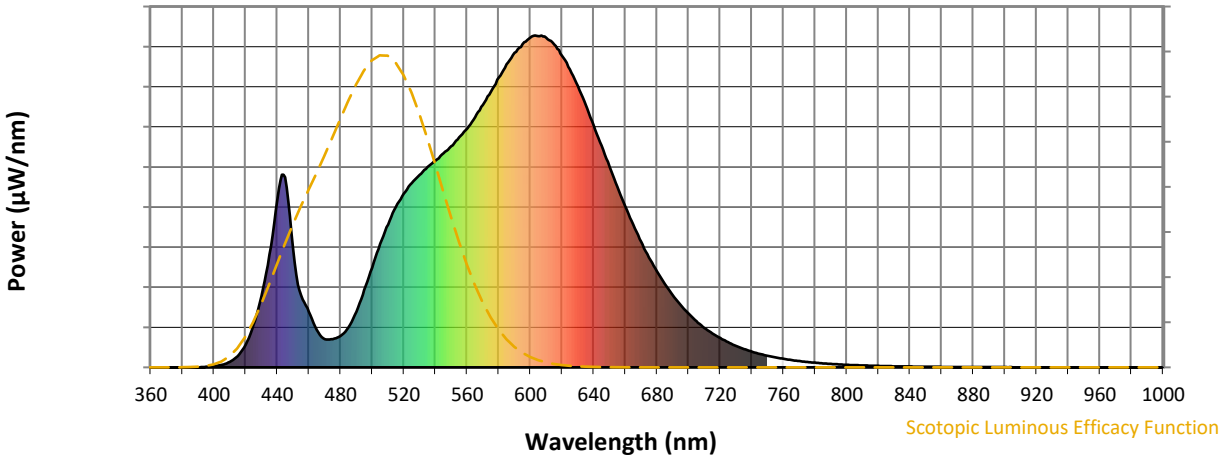
Scotopic Flux vs. Wavelength



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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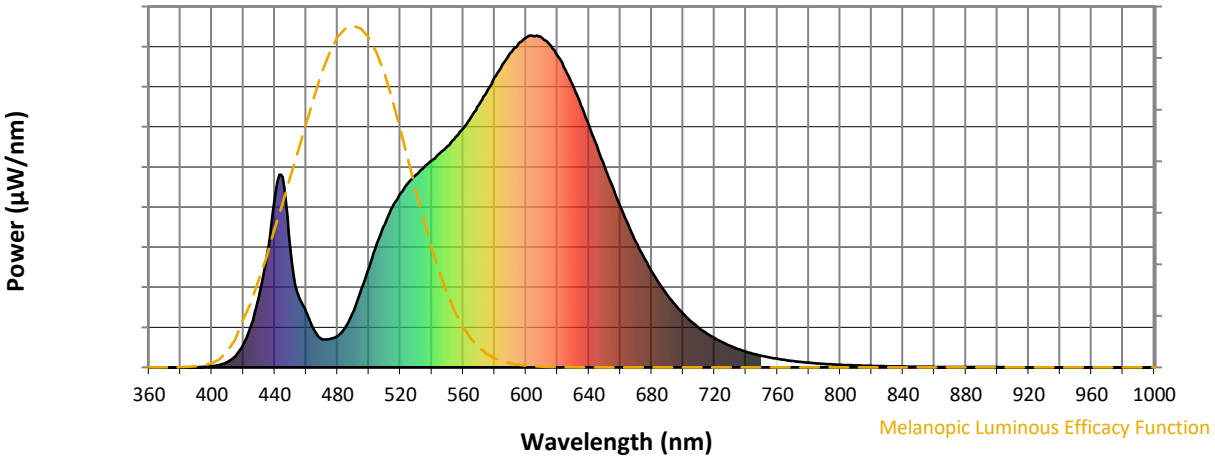
Melanopic Flux vs. Wavelength



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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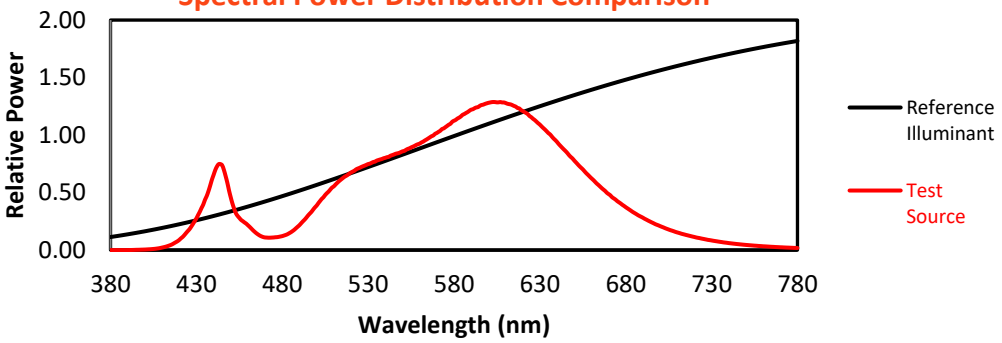
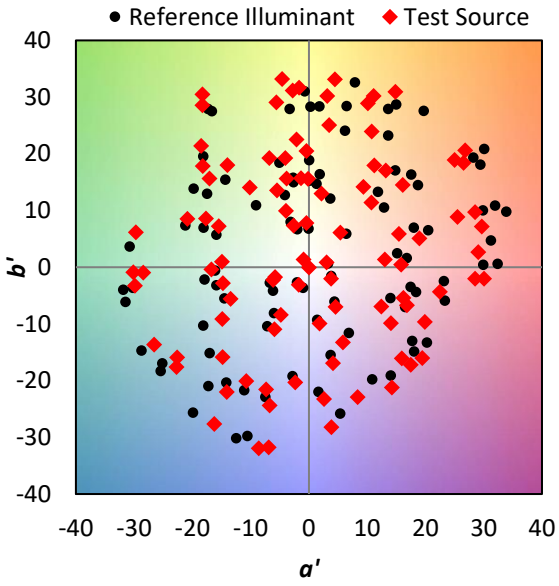
Summary

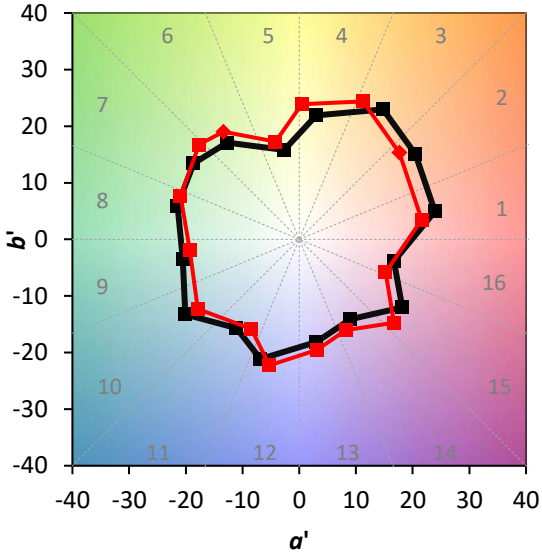
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

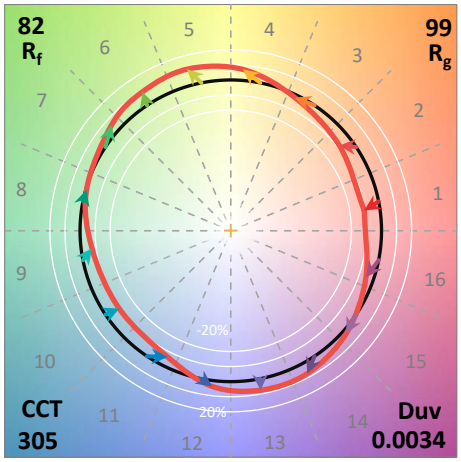
Spectral Power Distribution Comparison

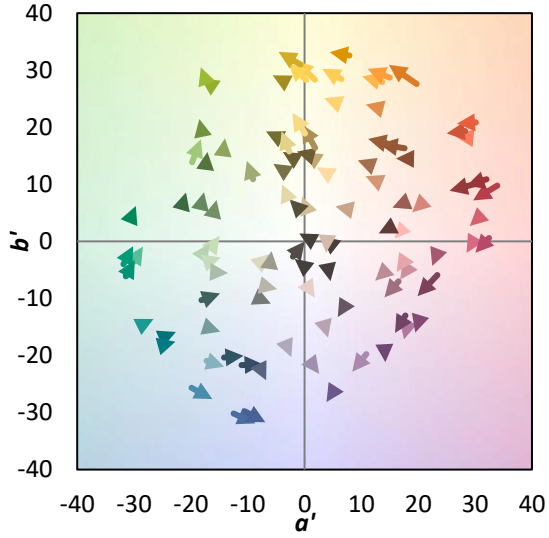


Color Vector Graphics









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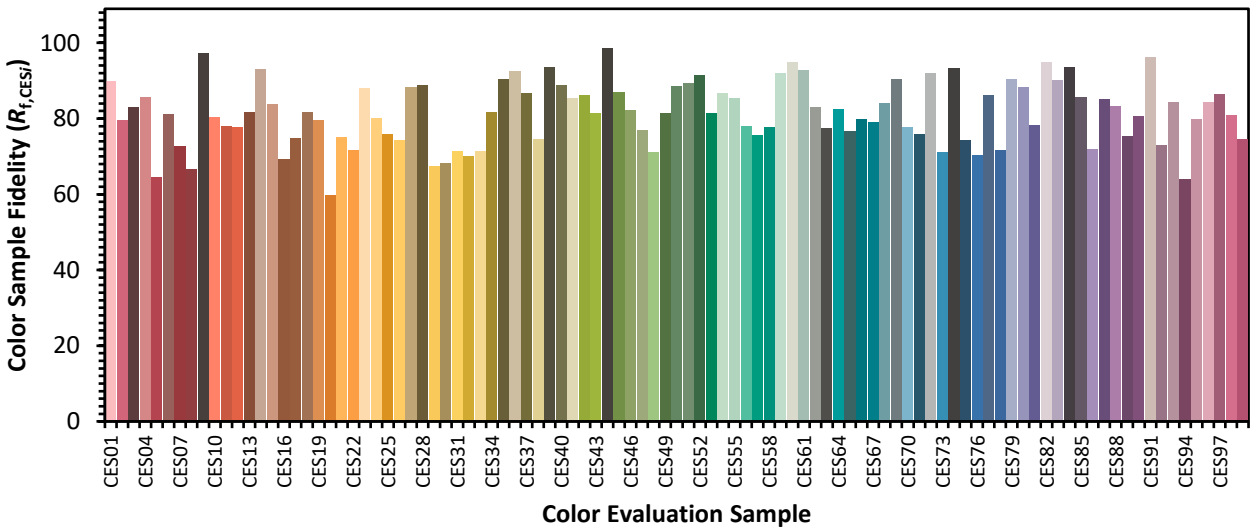
Individual Sample Fidelity Index ($R_{f,i}$)

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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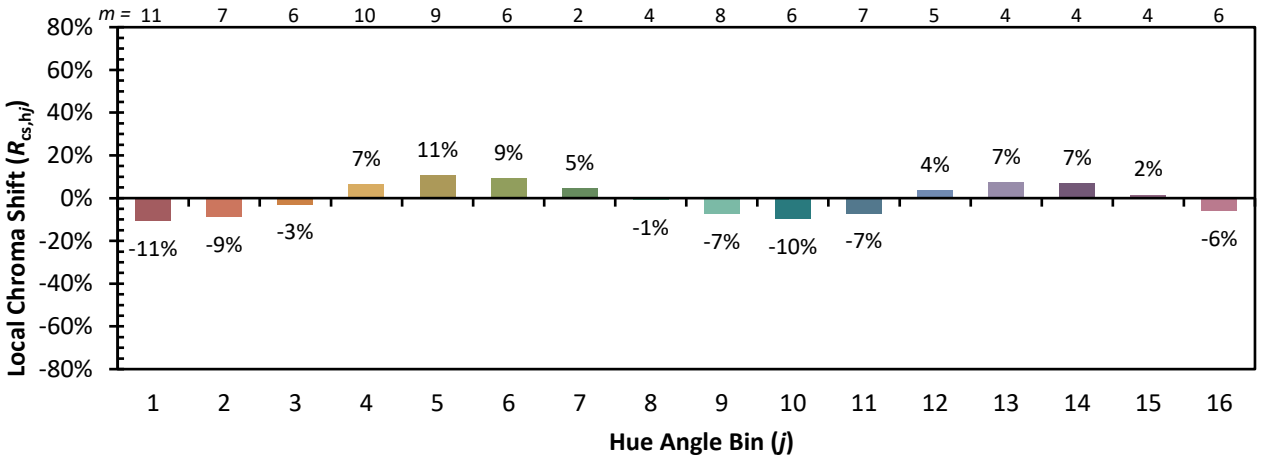
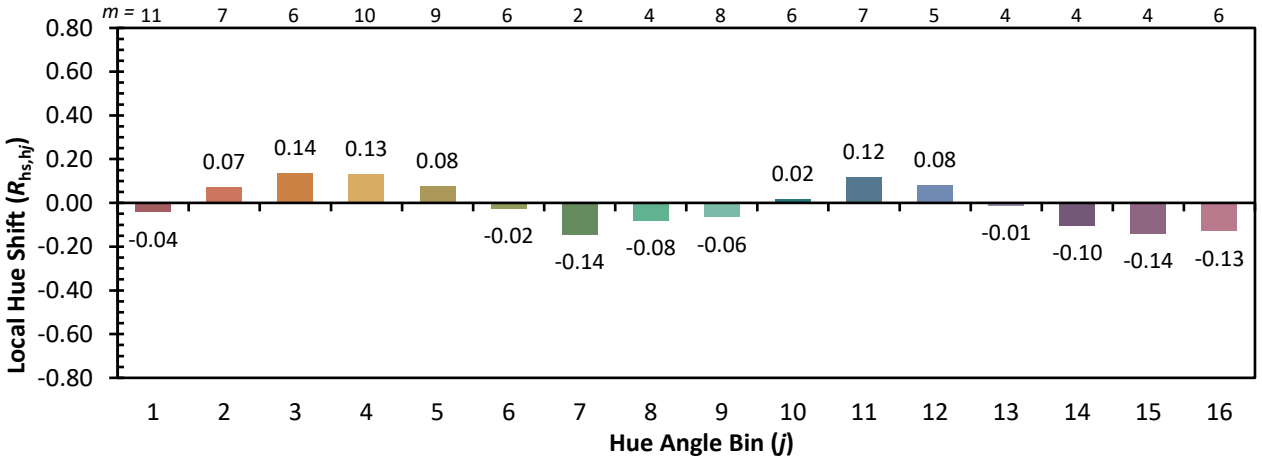
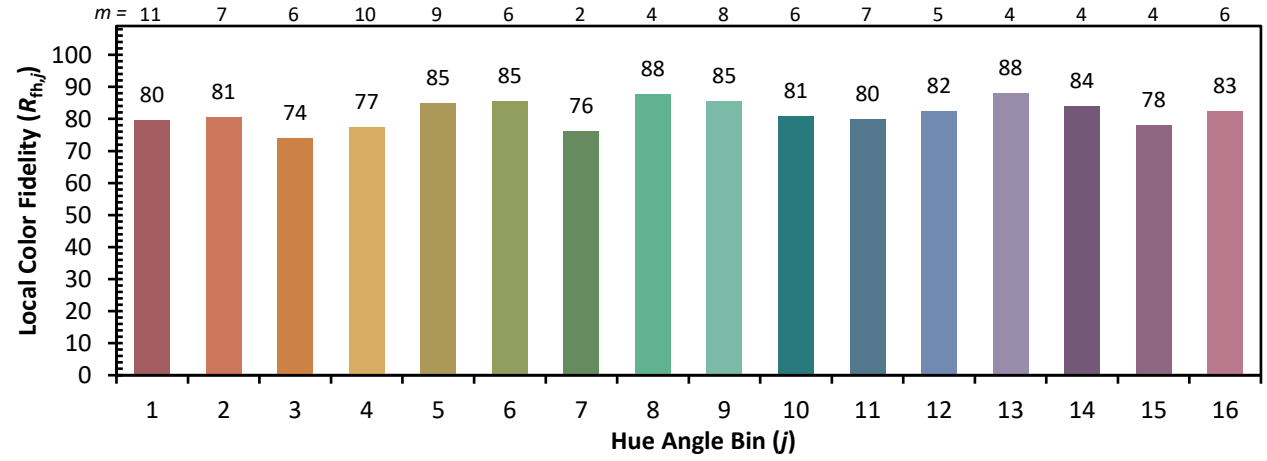
Color Rendition by Hue-Angle Bin







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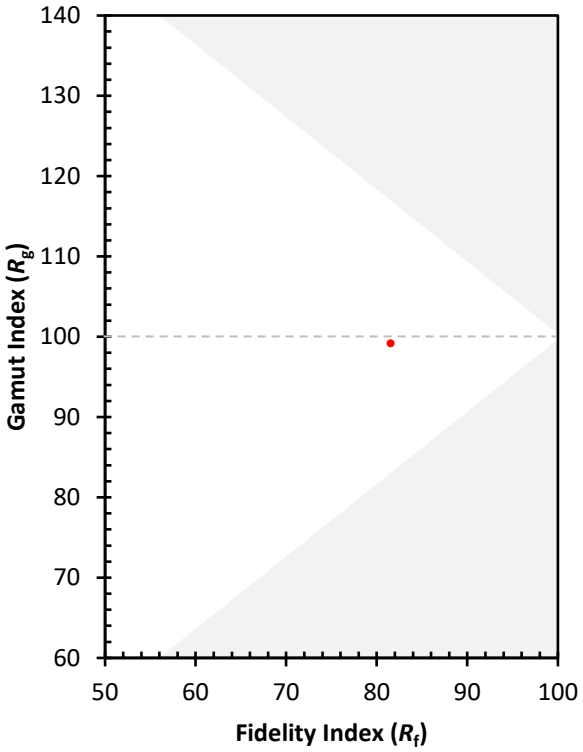
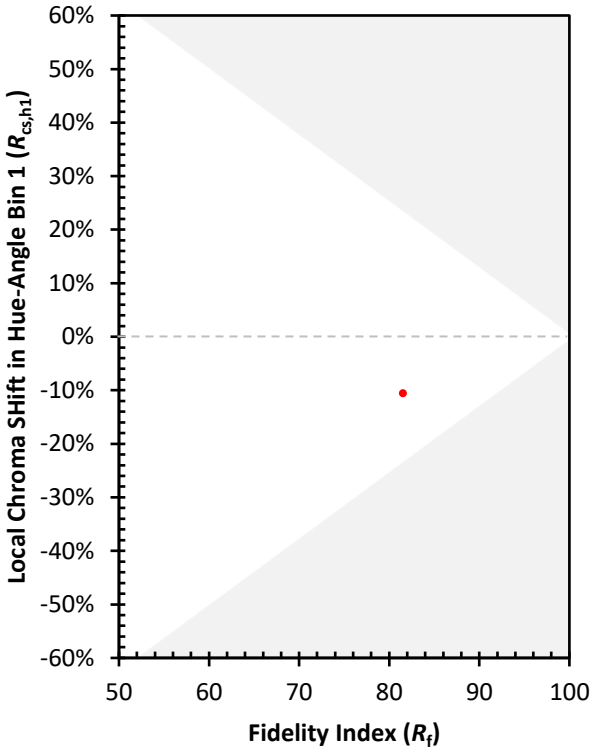
Measure Comparisons





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