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: P639497

Luminaire Tested: GWS-SA5B-830-U-T4W-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:	P639497
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5B-830-U-T4W-W
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13984.2 lumens
Efficiency:	N/A
Efficacy:	120.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G3

Input Watts (W):	115.7
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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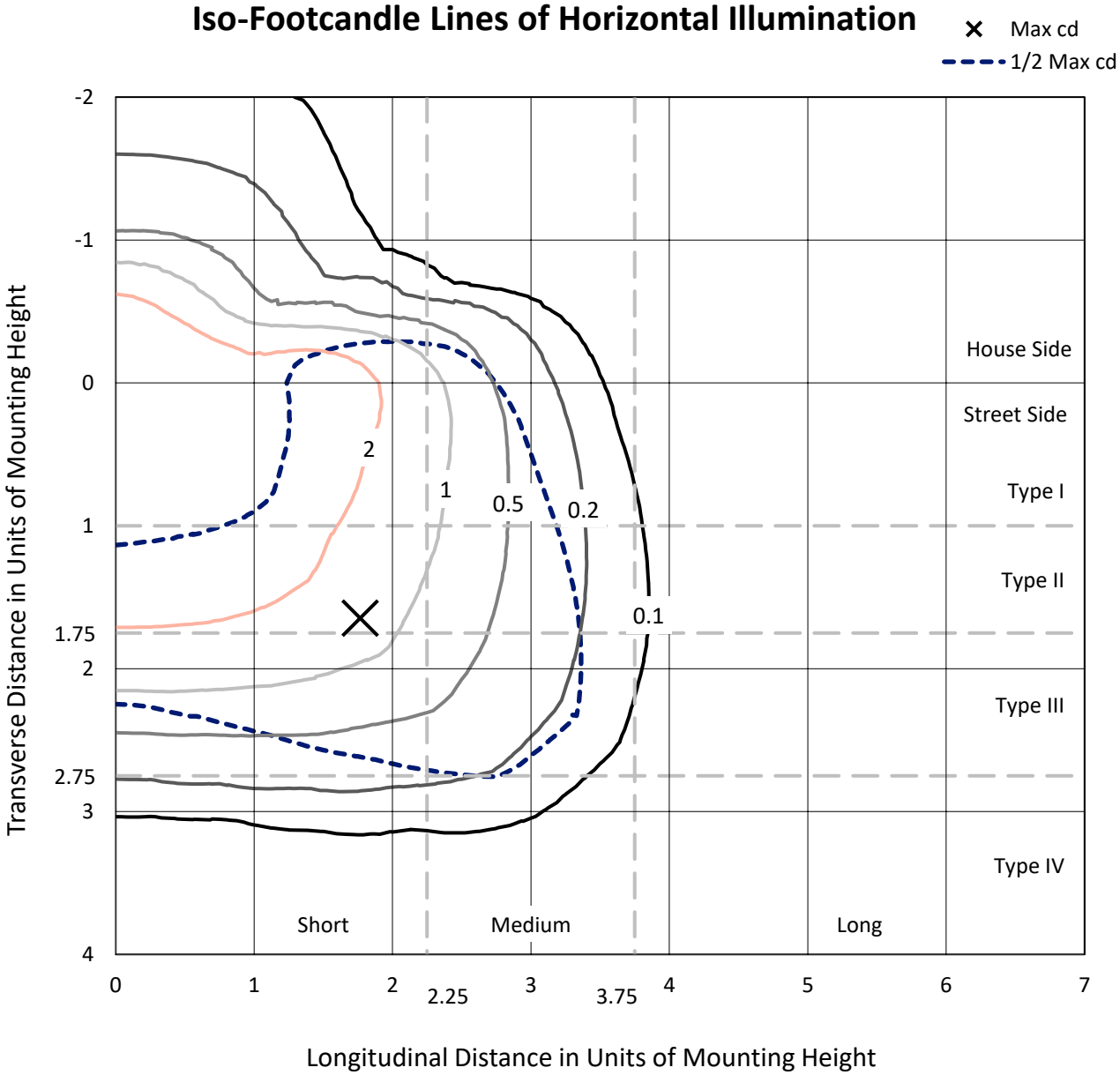
Scaled Data Report

REPORT NUMBER: P639497
CATALOG NUMBER: GWS-SA5B-830-U-T4W-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Short - N/A

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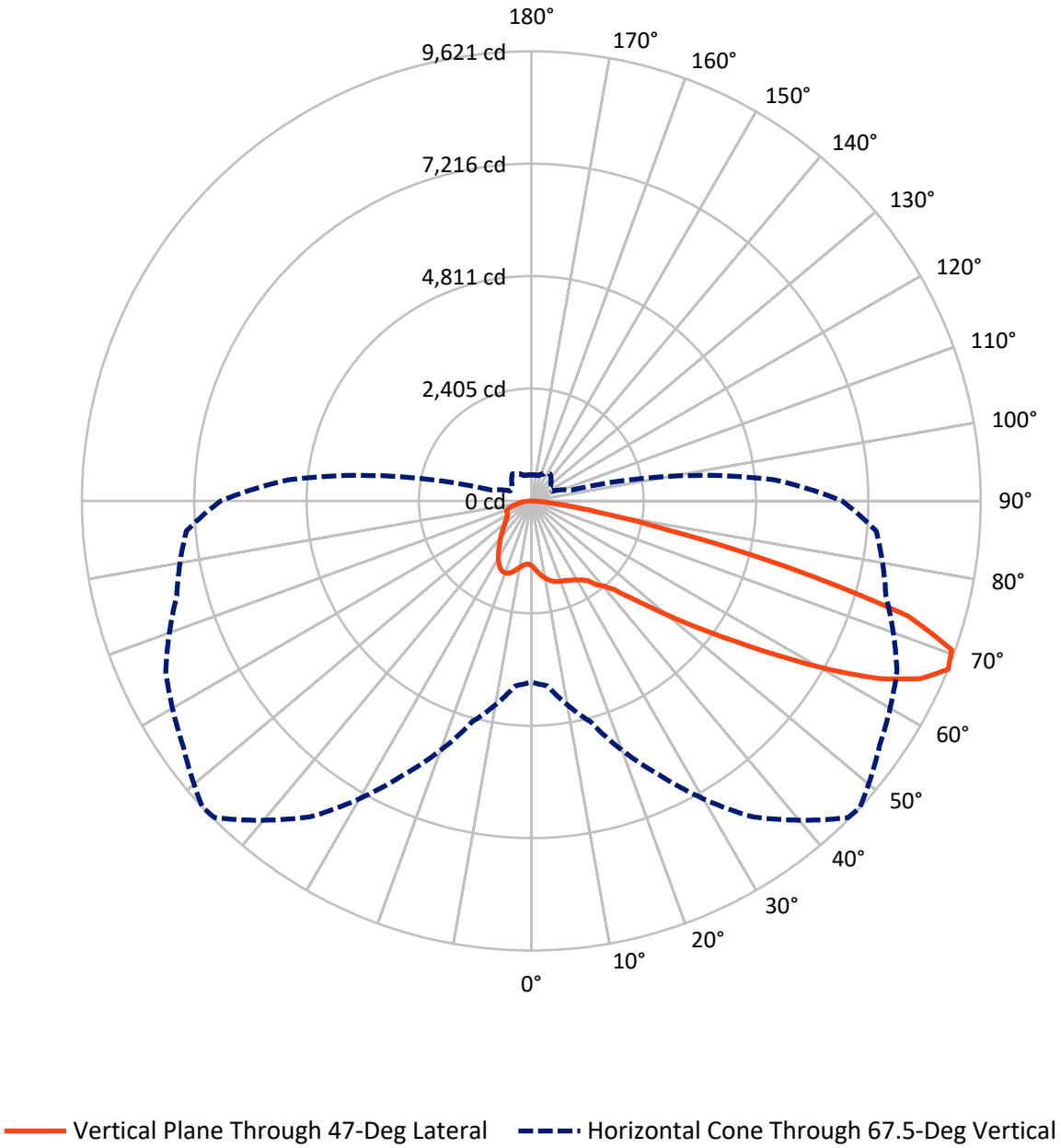
REPORT NUMBER: P639497
CATALOG NUMBER: GWS-SA5B-830-U-T4W-W

Luminous Intensity Polar Plot



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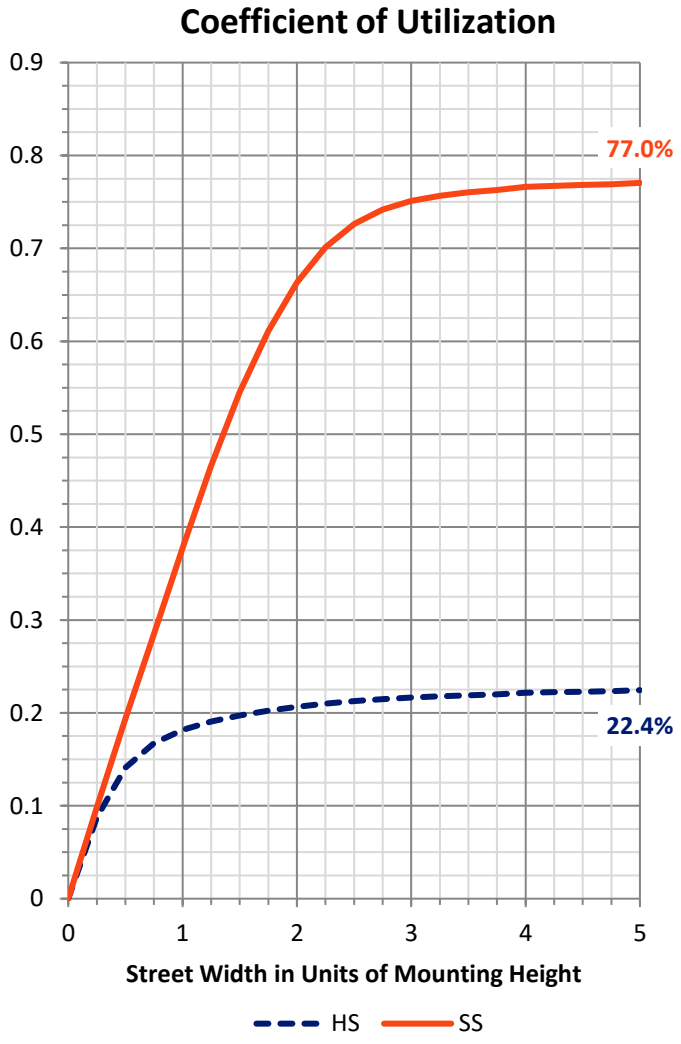
CATALOG NUMBER: GWS-SA5B-830-U-T4W-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3187.1	0.0	3187.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	10797.1	0.0	10797.1
	% Fixture	77.2	0.0	77.2
Total	Lumens	13984.2	0.0	13984.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	1.0
10°-20°	472.0	3.4
20°-30°	802.3	5.7
30°-40°	1175.3	8.4
40°-50°	1790.7	12.8
50°-60°	3204.0	22.9
60°-70°	4275.4	30.6
70°-80°	1933.4	13.8
80°-90°	189.4	1.4
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°	13984.2	100.0
0°-180°	13984.2	100.0



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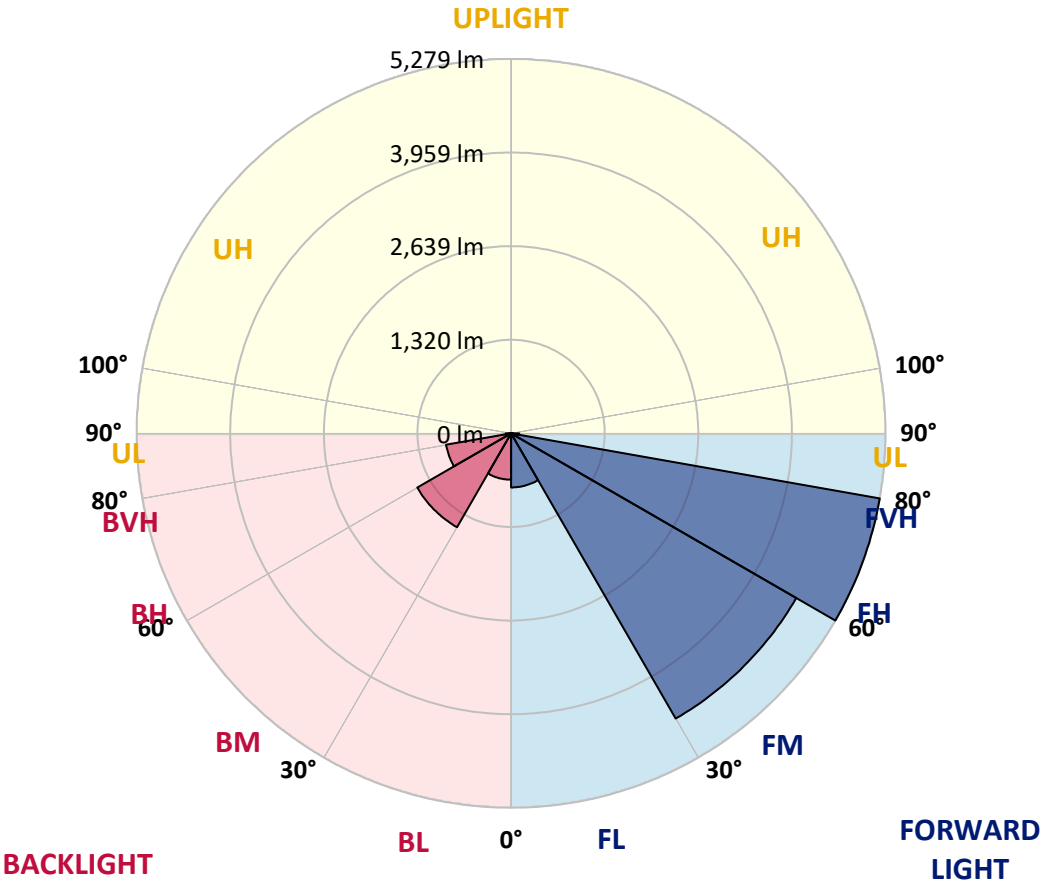
REPORT NUMBER: P639497
CATALOG NUMBER: GWS-SA5B-830-U-T4W-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	762.6	5.5			
FM	(30°-60°)	4642.9	33.2			
FH	(60°-80°)	5278.9	37.7			G3/7500
FVH	(80°-90°)	112.7	0.8			G2/225
BL	(0°-30°)	653.4	4.7	B2/1000		
BM	(30°-60°)	1527.1	10.9	B2/2500		
BH	(60°-80°)	929.9	6.6	B2/1000		G2/1000
BVH	(80°-90°)	76.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type III Short



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Scaled Data Report

REPORT NUMBER: P639497
CATALOG NUMBER: GWS-SA5B-830-U-T4W-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	*1386.3*	1386.3	1386.3	1386.3	1386.3
2.5°	1478.3	1483.3	1482.3	1474.2	1469.2	1460.1	*1461.1*	1446.9	1425.7	1411.6	1395.4
5°	1608.7	1616.8	1606.7	1593.6	1573.3	1544.0	*1541.0*	1508.6	1468.2	1439.9	1410.5
7.5°	1722.0	1727.0	1714.9	1692.7	1663.3	1623.9	*1616.8*	1578.4	1527.8	1483.3	1440.9
10°	1809.9	1816.0	1799.8	1770.5	1732.1	1692.7	*1687.6*	1648.2	1594.6	1542.0	1488.4
12.5°	1884.8	1886.8	1869.6	1830.2	1788.7	1748.3	*1743.2*	1706.8	1657.3	1603.7	1545.0
15°	1928.2	1929.3	1908.0	1864.5	1825.1	1789.7	*1786.7*	1755.3	1709.8	1659.3	1596.6
17.5°	1925.2	1927.2	1912.1	1873.6	1839.3	1818.0	*1815.0*	1794.8	1759.4	1713.9	1651.2
20°	1887.8	1889.8	1879.7	1854.4	1836.2	1830.2	*1831.2*	1825.1	1803.9	1766.5	1702.8
22.5°	1858.5	1861.5	1852.4	1834.2	1832.2	1846.3	*1849.4*	1852.4	1842.3	1808.9	1747.3
25°	1872.6	1877.7	1863.5	1838.3	1842.3	1873.6	*1879.7*	1889.8	1881.7	1853.4	1799.8
27.5°	1970.7	1973.8	1937.3	1885.8	1873.6	1907.0	*1916.1*	1932.3	1926.2	1899.9	1858.5
30°	2198.2	2196.2	2118.3	1992.0	1941.4	1954.5	*1961.6*	1984.9	1986.9	1969.7	1930.3
32.5°	2518.8	2508.6	2388.3	2187.1	2040.5	2008.1	*2016.2*	2047.6	2070.8	2052.6	1999.0
35°	2857.5	2848.4	2715.9	2480.3	2223.5	2111.3	*2102.2*	2126.4	2161.8	2111.3	2034.4
37.5°	3180.0	3165.9	3030.4	2739.2	2449.0	2292.3	*2279.1*	2254.8	2233.6	2136.5	2077.9
40°	3538.0	3521.8	3403.5	3073.9	2697.7	2430.8	*2397.4*	2301.4	2282.1	2220.5	2191.1
42.5°	3920.2	3920.2	3822.1	3497.5	2998.0	2629.0	*2585.5*	2440.9	2461.1	2420.7	2386.3
45°	4302.4	4313.5	4235.7	3924.2	3399.5	3003.1	*2933.3*	2728.1	2776.6	2758.4	2741.2
47.5°	4628.0	4649.2	4634.1	4360.0	3890.9	3458.1	*3351.9*	3138.6	3242.7	3286.2	3334.7
50°	4978.9	5002.1	4987.0	4878.8	4466.2	4009.2	*3914.1*	3693.7	3872.7	4003.1	4161.9
52.5°	5499.6	5533.0	5406.6	5365.1	5164.9	4635.1	*4550.1*	4299.4	4624.0	4840.3	5194.2
55°	5939.5	5938.4	5894.0	5989.0	5915.2	5400.5	*5306.5*	5079.0	5493.5	5723.1	6240.8
57.5°	6143.7	6168.0	6320.7	6589.6	6737.2	6335.8	*6245.8*	6013.3	6426.8	6546.1	7105.3
60°	6248.9	6279.2	6574.5	7106.3	7503.7	7357.1	*7321.7*	7025.4	7258.0	7243.8	7834.3
62.5°	6101.2	6161.9	6636.1	7342.9	8050.7	8383.4	*8372.3*	7924.3	7964.8	7826.2	8286.3
65°	5423.8	5489.5	6233.7	7224.6	8363.2	9164.0	*9167.0*	8738.3	8507.8	8109.4	8210.5
67.5°	*3878.7*	*3972.8*	*4892.9*	*6464.2*	*8252.9*	*9585.6*	*9621.0*	*9107.4*	*8635.2*	*7858.6*	*7413.7*
70°	2114.3	2183.1	2904.0	4698.8	7260.0	9484.5	*9550.2*	8929.4	8073.0	6797.9	5706.9
72.5°	960.6	982.8	1350.9	2578.4	4959.7	8164.0	*8439.0*	7968.8	6630.1	5021.3	3629.0
75°	439.8	450.0	588.5	1233.6	2591.6	5463.2	*5656.3*	5935.4	4613.8	3170.9	1891.8
77.5°	276.0	279.1	334.7	564.2	1292.2	2727.1	*2930.3*	3533.9	2701.8	1569.3	790.7
80°	162.8	165.8	208.3	305.4	606.7	1247.8	*1440.9*	1397.4	1270.0	677.5	360.0
82.5°	81.9	84.9	120.3	173.9	330.6	496.5	*584.4*	587.5	473.2	367.0	203.2
85°	29.3	30.3	39.4	68.8	140.5	163.8	*183.0*	223.5	231.6	213.4	98.1
87.5°	0.0	0.0	1.0	2.0	4.0	16.2	*17.2*	32.4	67.7	75.8	39.4
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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Scaled Data Report

REPORT NUMBER: P639497
CATALOG NUMBER: GWS-SA5B-830-U-T4W-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3
2.5°	1390.3	1375.2	1370.1	1365.0	1357.0	1353.9	1347.9	1341.8	1341.8	1335.7	1332.7
5°	1397.4	1377.2	1364.0	1358.0	1352.9	1355.9	1355.9	1358.0	1365.0	1361.0	1363.0
7.5°	1422.7	1399.4	1381.2	1376.2	1376.2	1388.3	1396.4	1406.5	1419.6	1421.7	1421.7
10°	1467.2	1439.9	1420.7	1417.6	1422.7	1439.9	1452.0	1464.1	1480.3	1481.3	1483.3
12.5°	1515.7	1488.4	1469.2	1473.2	1478.3	1500.5	1513.7	1523.8	1540.0	1540.0	1539.0
15°	1566.3	1535.9	1519.7	1527.8	1543.0	1568.3	1570.3	1571.3	1579.4	1577.4	1576.4
17.5°	1618.8	1586.5	1574.3	1586.5	1602.7	1614.8	1604.7	1590.5	1587.5	1583.4	1581.4
20°	1670.4	1637.0	1632.0	1641.1	1646.1	1636.0	1604.7	1578.4	1566.3	1560.2	1558.2
22.5°	1714.9	1686.6	1683.6	1683.6	1658.3	1622.9	1576.4	1541.0	1524.8	1516.7	1514.7
25°	1767.5	1741.2	1736.1	1708.8	1644.1	1579.4	1516.7	1484.4	1471.2	1467.2	1468.2
27.5°	1829.2	1811.0	1794.8	1716.9	1603.7	1502.6	1431.8	1417.6	1412.6	1417.6	1420.7
30°	1905.0	1886.8	1850.4	1706.8	1539.0	1402.5	1334.7	1333.7	1348.9	1362.0	1364.0
32.5°	1966.7	1958.6	1898.9	1674.5	1448.0	1292.2	1234.6	1238.6	1266.0	1284.2	1287.2
35°	2015.2	2028.4	1939.4	1620.9	1339.8	1188.1	1142.6	1144.6	1159.8	1185.1	1186.1
37.5°	2084.0	2128.5	1975.8	1539.0	1215.4	1098.1	1056.6	1041.5	1039.5	1046.5	1048.6
40°	2222.5	2289.2	2002.1	1419.6	1095.1	1017.2	970.7	941.4	916.1	896.9	890.8
42.5°	2431.8	2508.6	2017.2	1275.1	987.9	937.3	884.7	847.3	802.8	762.4	748.2
45°	2816.0	2841.3	2017.2	1121.4	892.8	862.5	809.9	765.4	708.8	661.3	651.2
47.5°	3430.8	3349.9	2019.3	972.7	808.9	796.8	751.3	700.7	638.0	598.6	592.5
50°	4357.0	4072.9	2060.7	849.4	739.1	741.2	707.8	652.2	595.6	566.2	561.2
52.5°	5406.6	4963.7	2171.9	758.4	680.5	695.7	677.5	623.9	573.3	548.0	543.0
55°	6393.5	5782.7	2267.0	693.6	631.0	657.2	656.2	606.7	561.2	535.9	532.9
57.5°	7232.7	6343.9	2252.8	641.1	588.5	621.9	637.0	595.6	553.1	531.9	528.8
60°	7754.5	6641.2	2051.6	592.5	556.1	596.6	625.9	592.5	557.1	552.1	553.1
62.5°	7981.0	6586.6	1665.4	556.1	534.9	584.4	638.0	613.8	594.6	606.7	613.8
65°	7629.1	6117.4	1225.5	528.8	514.7	587.5	666.3	647.1	594.6	602.6	605.7
67.5°	*6652.3*	*5207.4*	*885.8*	*501.5*	*489.4*	*596.6*	*706.8*	*642.1*	*560.2*	*560.2*	*554.1*
70°	4793.8	3745.3	643.1	474.2	464.1	583.4	708.8	607.7	520.7	517.7	502.5
72.5°	2884.8	2209.3	501.5	443.9	425.7	517.7	664.3	567.3	482.3	457.0	438.8
75°	1498.5	1107.2	420.6	410.5	365.0	438.8	607.7	504.6	412.5	390.3	380.2
77.5°	642.1	517.7	361.0	366.0	303.3	369.1	490.4	436.8	366.0	337.7	328.6
80°	316.5	294.2	285.1	293.2	242.7	285.1	422.7	382.2	310.4	278.1	264.9
82.5°	181.0	171.9	205.3	208.3	172.9	238.6	356.9	323.6	256.8	221.4	200.2
85°	83.9	90.0	124.4	125.4	107.2	163.8	233.6	182.0	136.5	113.2	108.2
87.5°	33.4	39.4	54.6	53.6	31.3	30.3	20.2	11.1	9.1	8.1	7.1
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

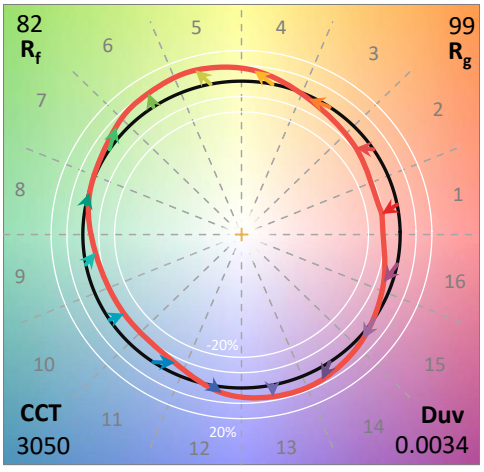
Test Information

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

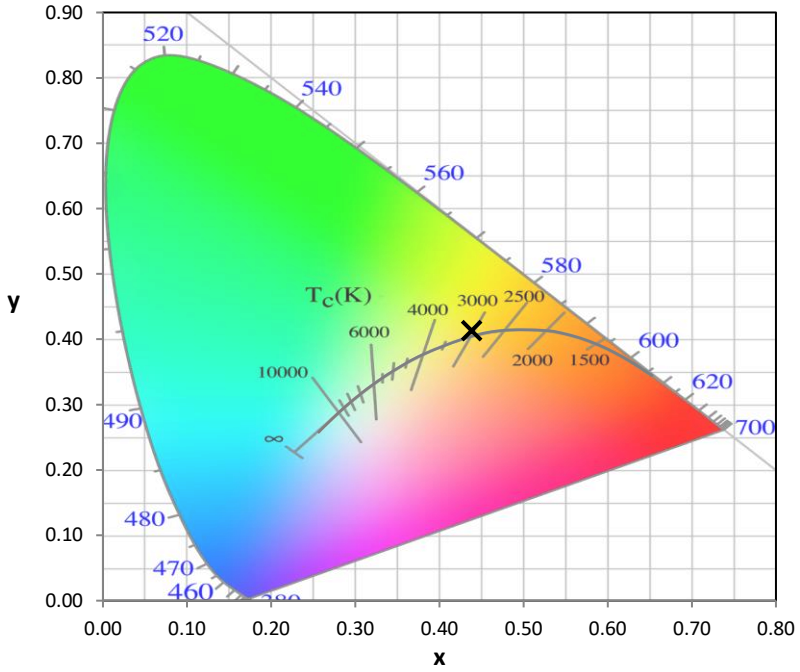
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

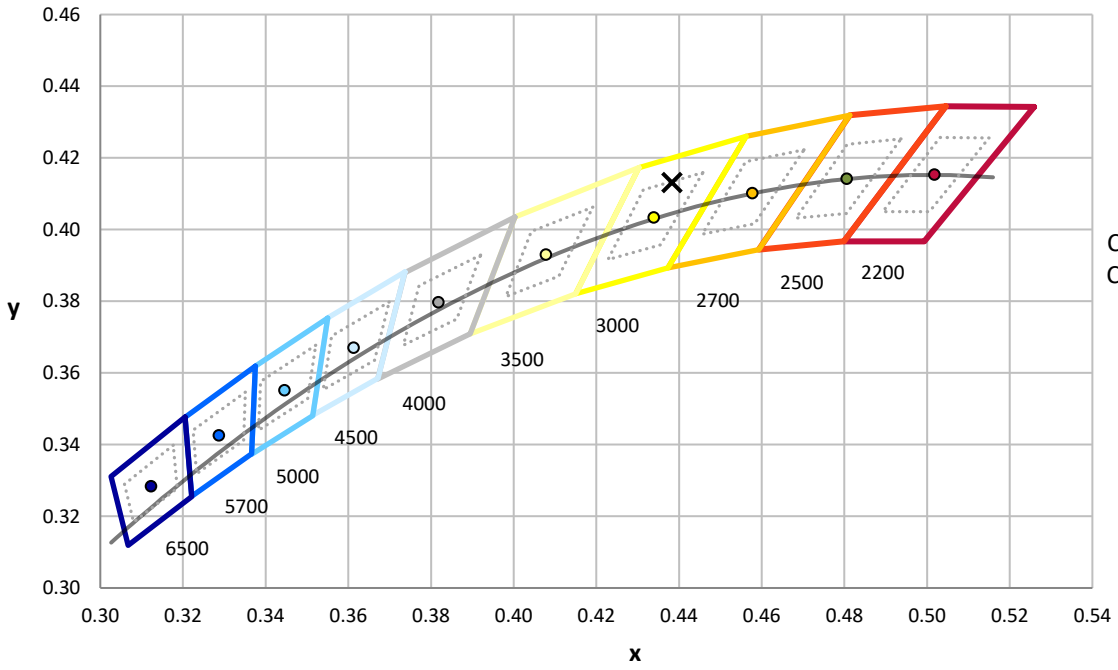
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

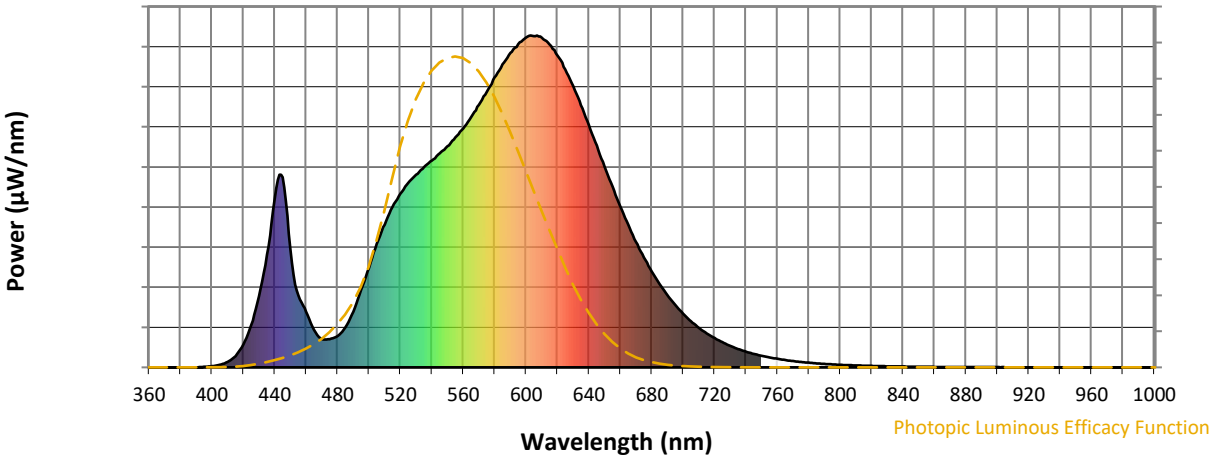


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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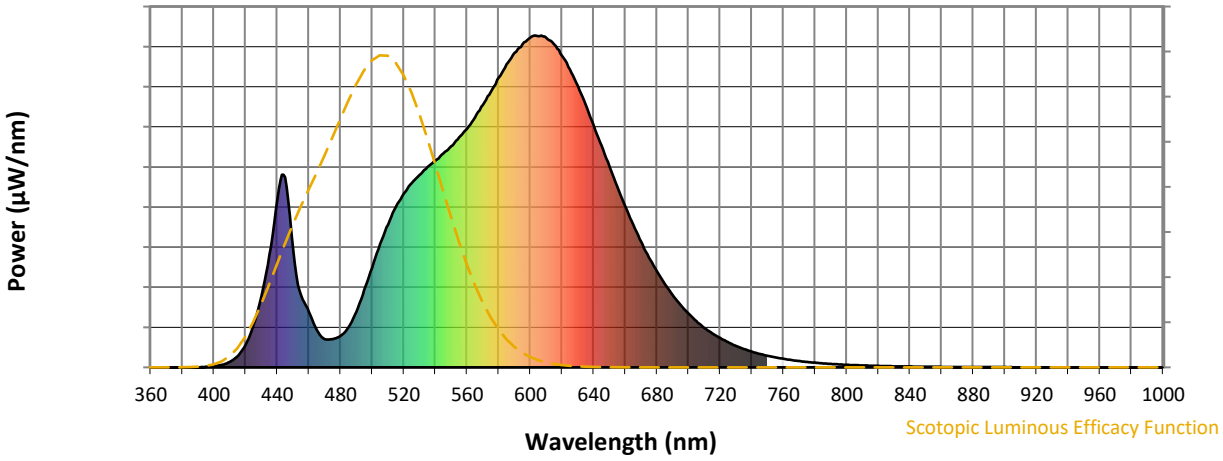
Scotopic Flux vs. Wavelength



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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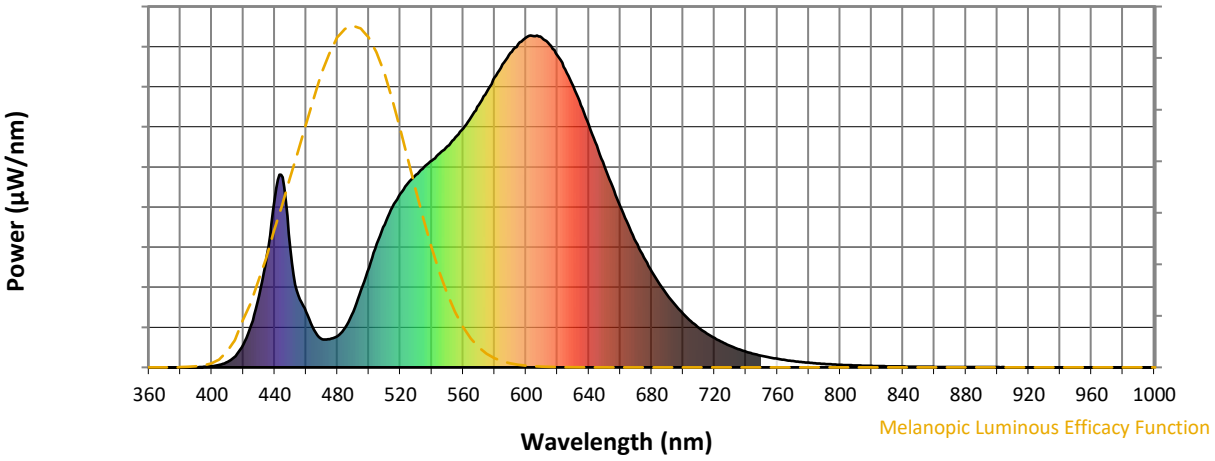
Melanopic Flux vs. Wavelength



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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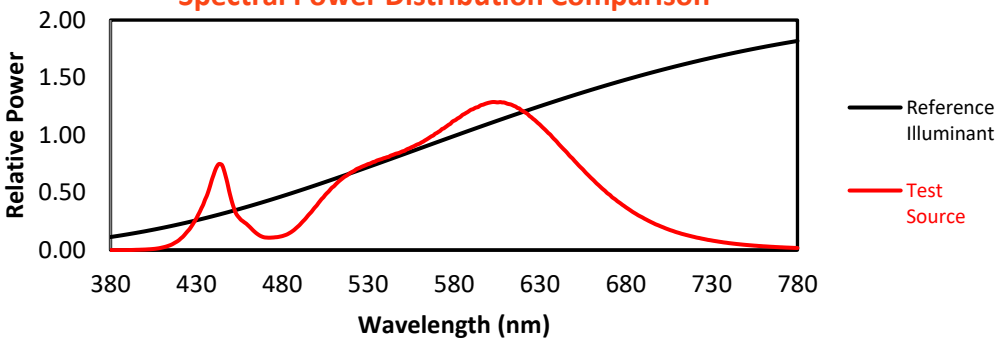
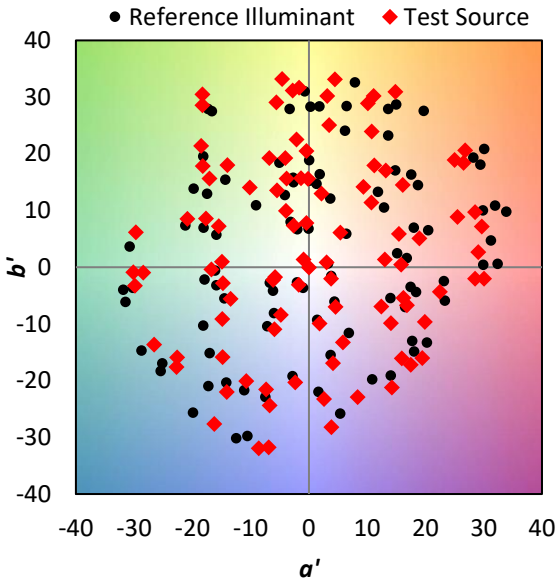
Summary

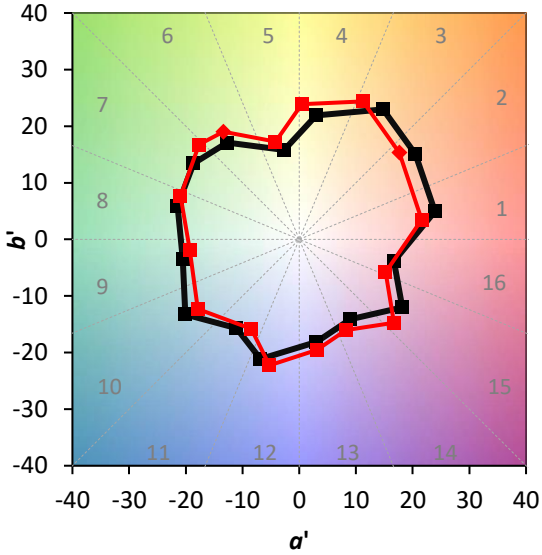
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

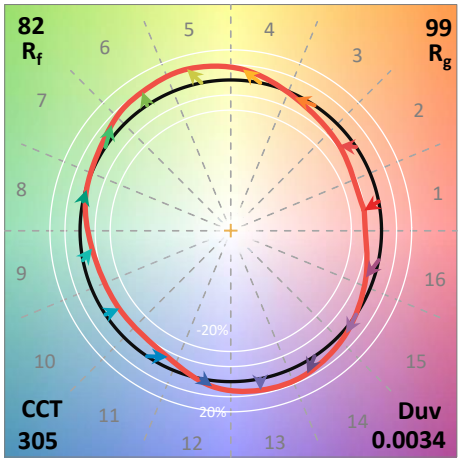
Spectral Power Distribution Comparison

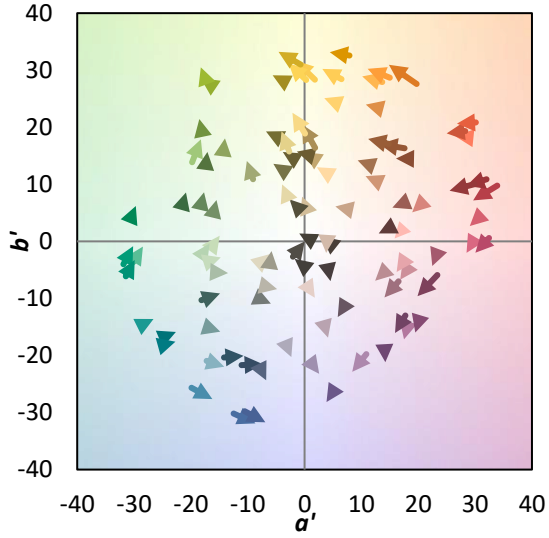


Color Vector Graphics









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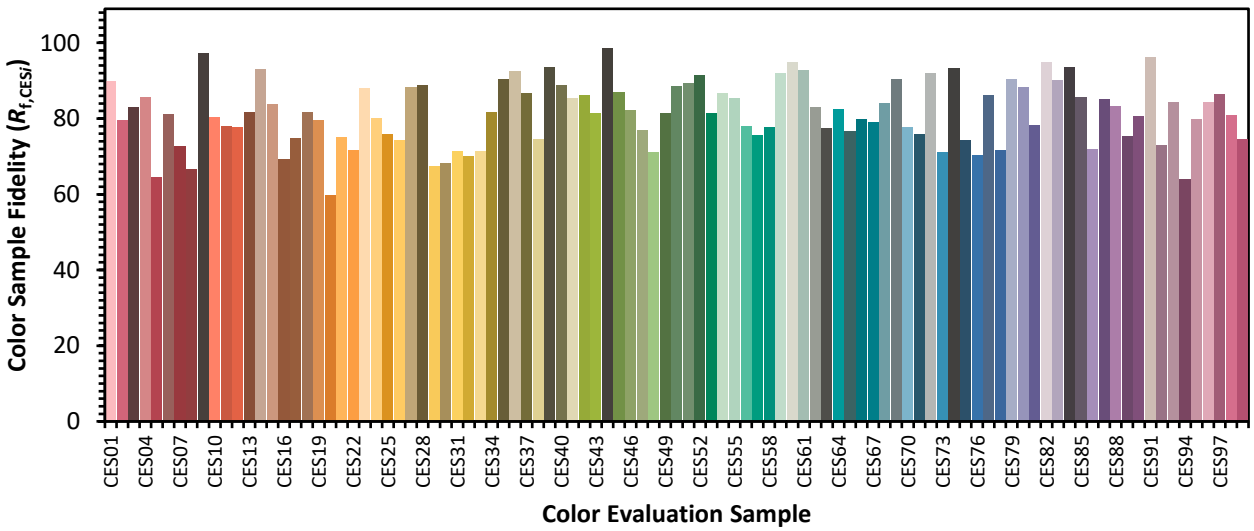
Individual Sample Fidelity Index ($R_{f,i}$)

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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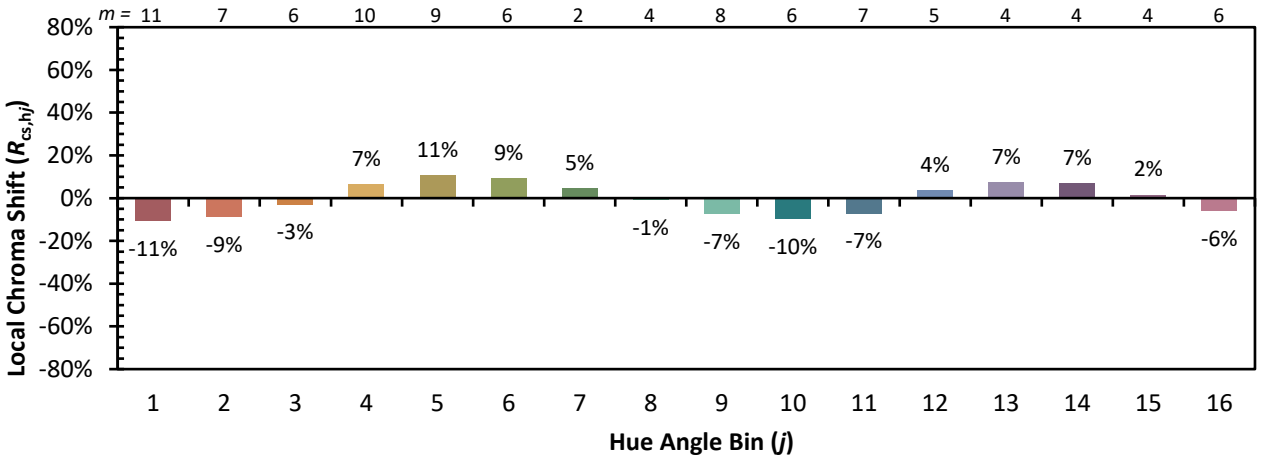
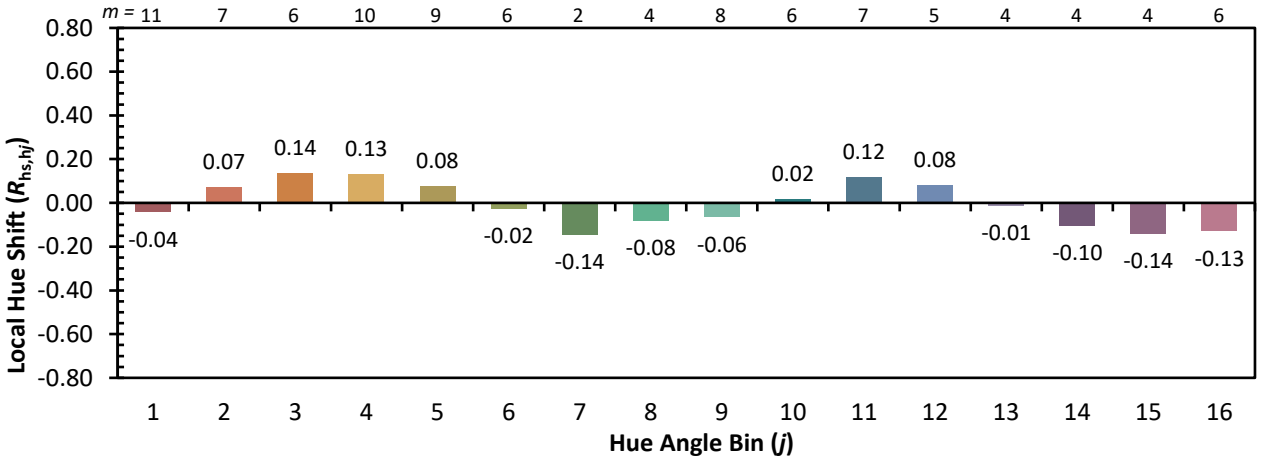
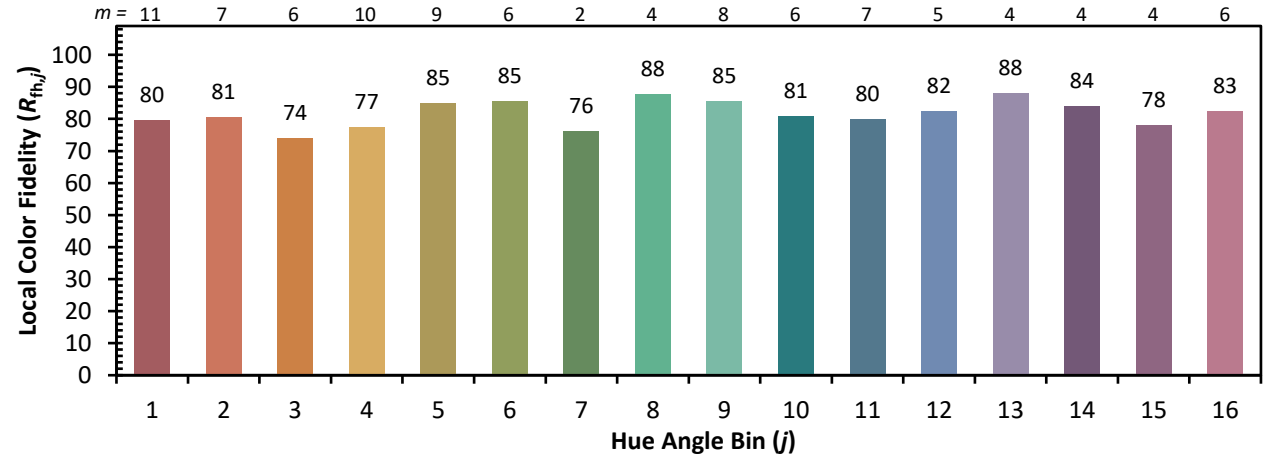
Color Rendition by Hue-Angle Bin







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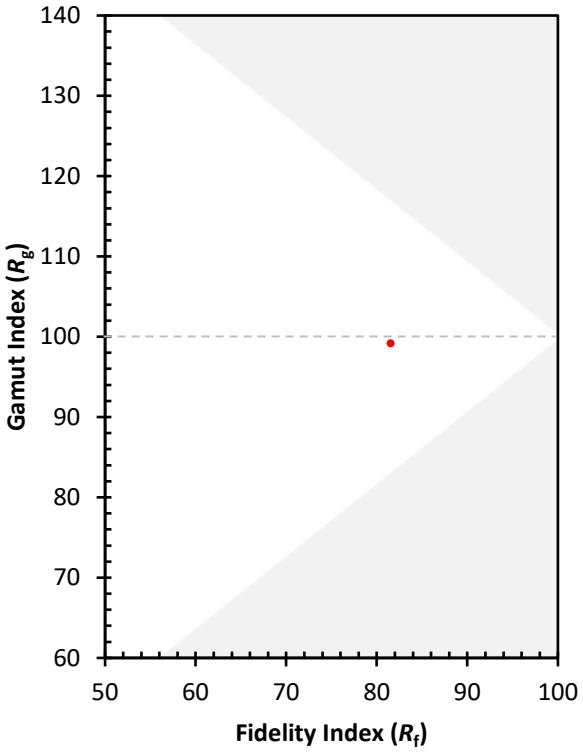
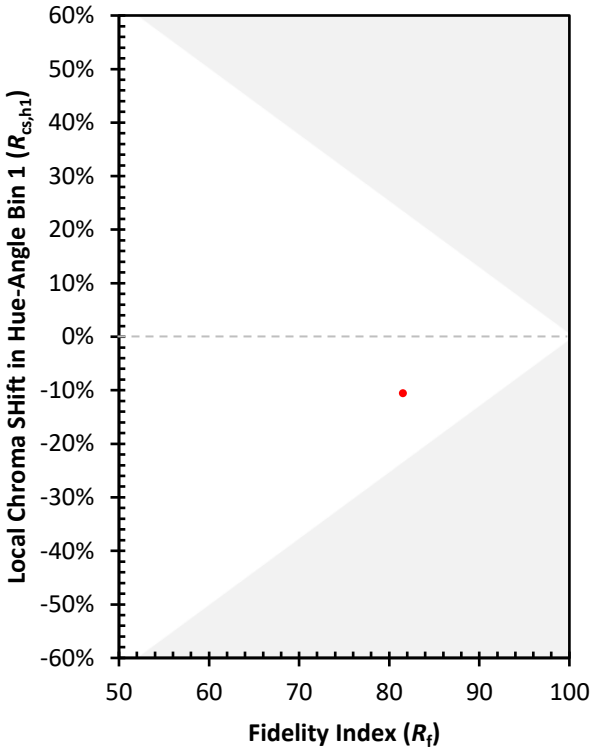
Measure Comparisons





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