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: P637014

Luminaire Tested: GWS-SA4B-830-U-T3-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:	P637014
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4B-830-U-T3-W
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11506 lumens
Efficiency:	N/A
Efficacy:	121.9 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	94.4
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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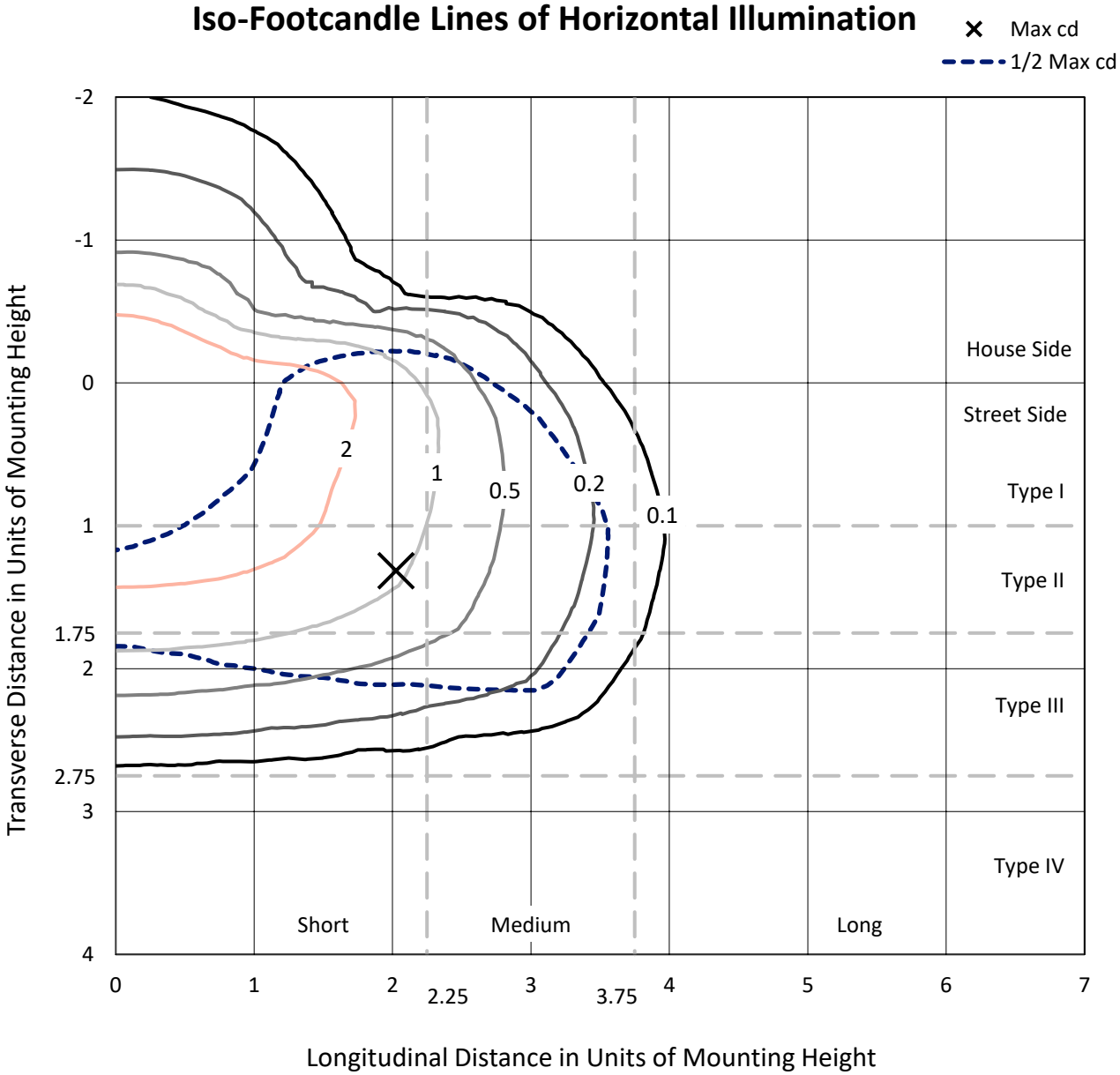
Scaled Data Report

REPORT NUMBER: P637014
CATALOG NUMBER: GWS-SA4B-830-U-T3-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
Type III - Short - N/A

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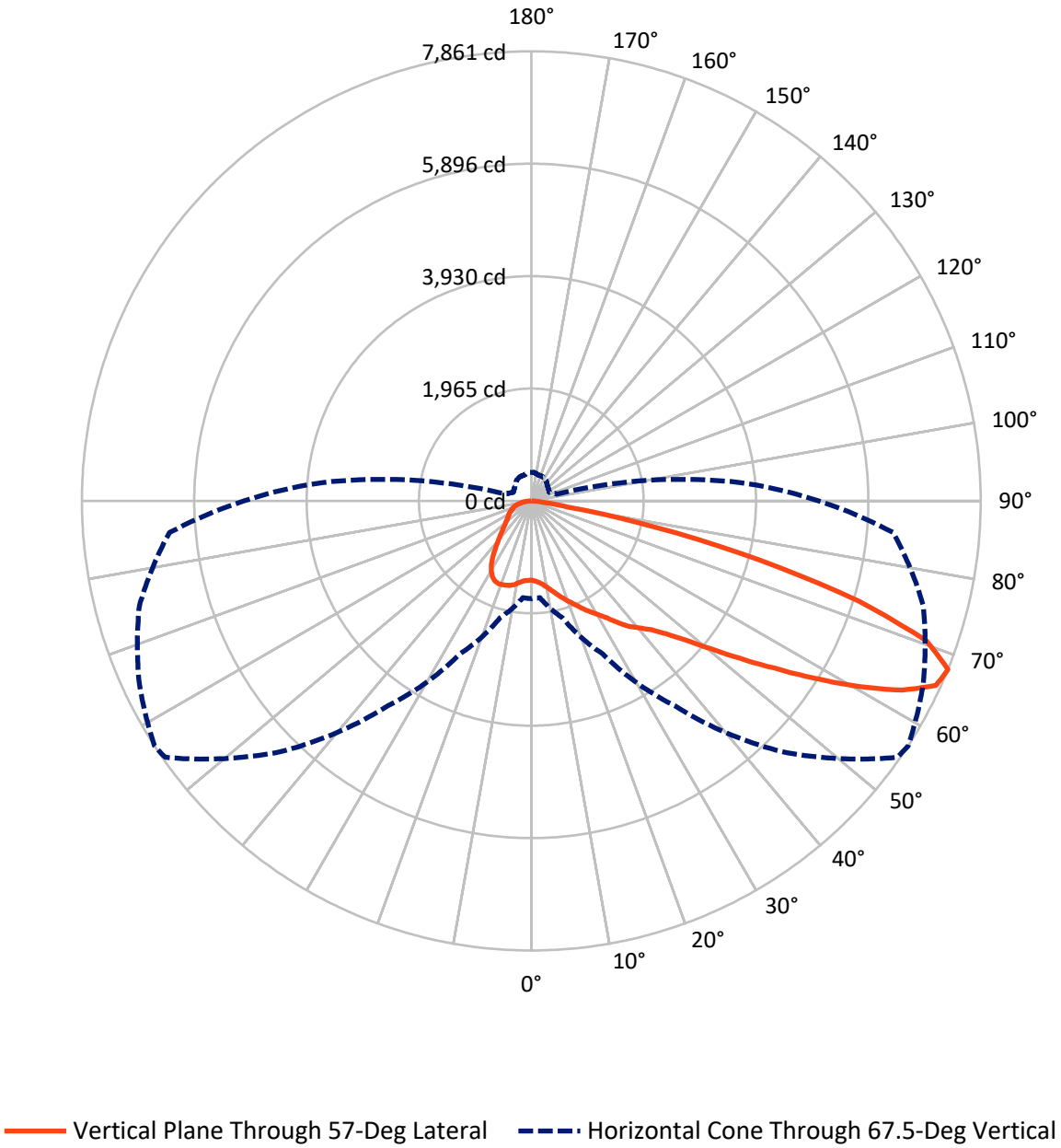
Luminous Intensity Polar Plot



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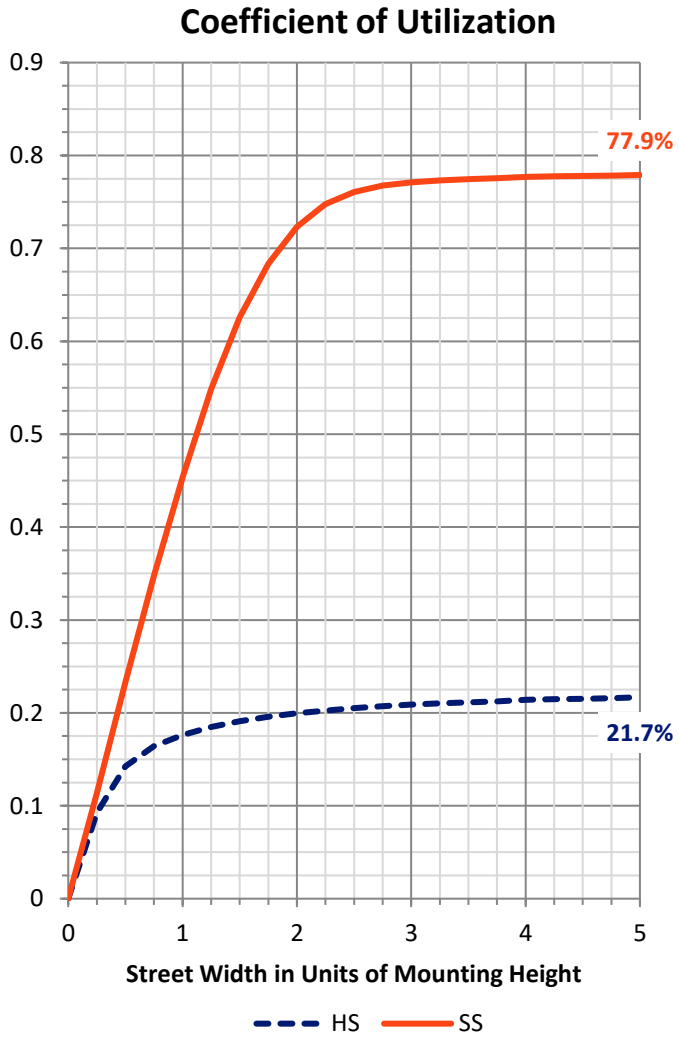
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2529.7	0.0	2529.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	8976.3	0.0	8976.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	11506.0	0.0	11506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	1.2
10°-20°	455.2	4.0
20°-30°	811.5	7.1
30°-40°	1179.9	10.3
40°-50°	1707.7	14.8
50°-60°	2672.4	23.2
60°-70°	3117.6	27.1
70°-80°	1301.4	11.3
80°-90°	122.8	1.1
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°	11506.0	100.0
0°-180°	11506.0	100.0



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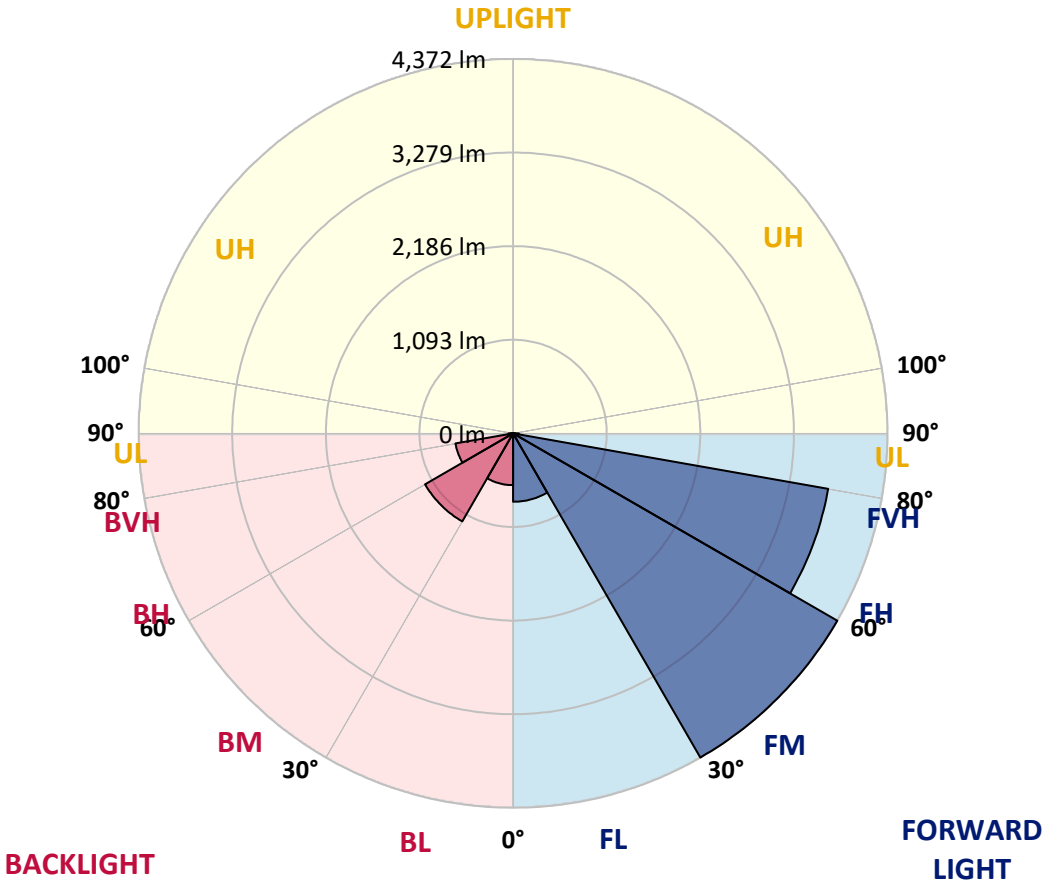
CATALOG NUMBER: GWS-SA4B-830-U-T3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	799.2	6.9			
FM	(30°-60°)	4372.4	38.0			
FH	(60°-80°)	3736.2	32.5			G2/5000
FVH	(80°-90°)	68.4	0.6			G1/100
BL	(0°-30°)	605.0	5.3	B2/1000		
BM	(30°-60°)	1187.5	10.3	B2/2500		
BH	(60°-80°)	682.8	5.9	B2/1000		G2/1000
BVH	(80°-90°)	54.4	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-G2
Type III Short



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Scaled Data Report

REPORT NUMBER: P637014
CATALOG NUMBER: GWS-SA4B-830-U-T3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	*1386.4*	1386.4	1386.4	1386.4
2.5°	1406.2	1404.5	1403.7	1408.6	1407.0	1406.2	1406.2	*1405.4*	1403.7	1397.1	1388.0
5°	1444.9	1441.6	1438.3	1442.4	1439.1	1435.8	1435.0	*1433.4*	1427.6	1417.7	1403.7
7.5°	1485.3	1482.0	1482.8	1485.3	1482.8	1481.2	1478.7	*1477.1*	1468.0	1452.3	1433.4
10°	1542.2	1542.2	1543.8	1546.3	1547.1	1544.7	1539.7	*1537.2*	1526.5	1506.7	1480.4
12.5°	1624.6	1623.0	1623.0	1621.3	1623.8	1621.3	1616.4	*1612.2*	1599.1	1573.5	1535.6
15°	1733.4	1726.8	1721.0	1710.3	1707.0	1698.0	1699.6	*1697.1*	1684.8	1650.2	1602.3
17.5°	1849.6	1848.8	1839.7	1818.3	1796.9	1782.0	1785.3	*1784.5*	1777.9	1730.9	1669.9
20°	1951.8	1956.0	1947.7	1931.2	1902.4	1874.4	1872.7	*1876.8*	1868.6	1821.6	1736.7
22.5°	2066.4	2063.1	2054.9	2033.4	2012.0	1982.3	1972.4	*1969.1*	1965.8	1912.3	1805.1
25°	2175.2	2185.1	2174.4	2154.6	2121.6	2089.5	2081.2	*2084.5*	2075.5	2004.6	1878.5
27.5°	2312.9	2317.0	2310.4	2283.2	2255.2	2209.8	2194.2	*2194.2*	2190.9	2091.1	1936.2
30°	2459.6	2471.1	2459.6	2437.3	2408.5	2343.4	2309.6	*2306.3*	2296.4	2180.2	2003.8
32.5°	2607.1	2615.4	2607.1	2585.7	2552.7	2495.8	2447.2	*2439.8*	2426.6	2277.4	2073.0
35°	2738.2	2745.6	2743.9	2748.9	2721.7	2650.0	2620.3	*2617.0*	2582.4	2404.3	2167.0
37.5°	2881.6	2890.7	2878.3	2888.2	2877.5	2809.9	2800.8	*2784.3*	2734.9	2523.9	2265.9
40°	3044.8	3053.0	3033.3	3037.4	3025.0	2987.1	2940.9	*2918.7*	2845.3	2653.3	2421.7
42.5°	3219.5	3238.5	3247.6	3240.1	3211.3	3189.9	3109.1	*3081.1*	3020.1	2886.5	2678.0
45°	3472.6	3500.6	3513.8	3494.8	3482.5	3452.0	3353.1	*3319.3*	3287.1	3215.4	3035.7
47.5°	3745.4	3771.0	3813.0	3821.2	3831.1	3808.1	3668.8	*3635.8*	3641.6	3633.3	3475.9
50°	3963.0	3984.4	4079.2	4180.6	4264.7	4271.3	4093.2	*4057.8*	4089.1	4115.5	4005.9
52.5°	4121.3	4140.2	4265.5	4474.9	4665.3	4806.2	4614.2	*4573.8*	4599.3	4658.7	4608.4
55°	4249.9	4276.2	4407.3	4728.7	5113.7	5336.2	5213.4	*5162.3*	5151.6	5224.9	5253.8
57.5°	4317.4	4325.7	4509.5	4927.4	5442.5	5856.3	5909.9	*5852.2*	5750.0	5790.4	5940.4
60°	4163.3	4177.3	4428.7	4978.5	5702.2	6372.3	6641.0	*6593.2*	6375.6	6397.9	6563.5
62.5°	3737.2	3756.9	4059.4	4735.3	5723.6	6716.8	7316.1	*7285.6*	6993.8	6873.5	6922.9
65°	2997.8	3004.4	3317.6	4133.6	5297.5	6759.7	7786.7	*7779.3*	7425.7	7143.8	6932.0
67.5°	*1709.5*	*1698.0*	*2116.7*	*2948.4*	*4371.8*	*6202.5*	*7817.2*	*7860.9*	*7565.8*	*7099.3*	*6355.0*
70°	741.0	742.7	935.5	1454.8	2829.7	5013.1	7260.9	*7335.9*	7160.3	6358.3	5056.0
72.5°	342.9	347.8	431.1	629.7	1208.4	3109.9	5920.6	*5988.2*	5837.4	5088.9	3678.6
75°	242.3	246.5	287.7	361.0	555.5	1211.7	3960.5	*4102.3*	4175.7	3806.4	2424.1
77.5°	183.8	189.6	210.2	250.6	342.9	429.4	1895.0	*2232.9*	2659.9	2368.1	1248.7
80°	117.0	117.0	139.3	167.3	209.4	223.4	547.3	*648.7*	1301.5	975.9	490.4
82.5°	79.1	81.6	94.8	106.3	120.3	126.9	234.9	*250.6*	375.9	332.2	201.9
85°	42.0	43.7	49.5	48.6	57.7	50.3	98.9	*98.1*	137.7	150.8	76.7
87.5°	0.0	0.0	0.8	0.8	1.6	2.5	10.7	*11.5*	28.8	46.2	25.6
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: P637014
CATALOG NUMBER: GWS-SA4B-830-U-T3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4
2.5°	1393.0	1383.1	1388.0	1386.4	1391.3	1391.3	1382.3	1379.8	1380.6	1370.7	1367.4
5°	1405.4	1393.8	1396.3	1393.0	1397.9	1402.1	1397.9	1397.9	1402.9	1395.5	1391.3
7.5°	1433.4	1420.2	1420.2	1416.1	1421.8	1425.1	1421.8	1426.8	1435.8	1428.4	1424.3
10°	1477.9	1462.2	1463.1	1458.1	1460.6	1458.9	1445.7	1441.6	1444.1	1437.5	1434.2
12.5°	1535.6	1514.2	1514.2	1504.3	1498.5	1481.2	1454.0	1444.1	1445.7	1440.0	1437.5
15°	1590.8	1571.0	1566.9	1547.1	1520.7	1488.6	1463.9	1457.3	1458.9	1453.2	1449.0
17.5°	1655.9	1630.4	1615.5	1579.3	1530.6	1497.7	1472.9	1457.3	1444.1	1430.9	1427.6
20°	1716.1	1684.0	1656.7	1600.7	1541.4	1496.0	1449.9	1411.1	1379.0	1361.7	1357.5
22.5°	1777.9	1736.7	1688.9	1615.5	1540.5	1466.3	1381.4	1322.9	1275.1	1249.6	1254.5
25°	1836.4	1784.5	1719.4	1629.5	1514.2	1400.4	1285.0	1197.6	1143.2	1123.5	1117.7
27.5°	1885.1	1820.8	1747.4	1623.0	1459.8	1305.6	1153.1	1055.9	1003.1	980.9	975.1
30°	1939.5	1866.9	1787.8	1592.5	1374.0	1172.9	1003.9	924.8	886.9	865.5	866.3
32.5°	2002.1	1926.3	1844.7	1533.9	1264.4	1029.5	881.1	826.7	796.2	774.8	771.5
35°	2086.2	2011.2	1882.6	1445.7	1125.1	897.6	797.1	752.5	714.6	686.6	680.8
37.5°	2190.0	2138.9	1886.7	1327.9	975.9	806.9	736.9	689.1	642.9	605.8	601.7
40°	2368.1	2309.6	1852.9	1180.3	849.0	748.4	686.6	631.4	577.8	536.6	530.8
42.5°	2622.0	2501.6	1780.4	1013.8	753.4	702.3	638.8	568.7	514.3	485.5	481.4
45°	2945.1	2715.9	1671.6	857.2	682.5	656.9	588.5	515.2	486.3	465.7	461.6
47.5°	3340.7	2965.7	1546.3	735.2	627.3	615.7	537.4	497.0	471.5	454.2	450.0
50°	3813.8	3283.8	1443.3	639.6	577.8	567.9	520.9	486.3	465.7	451.7	448.4
52.5°	4353.7	3637.4	1393.0	571.2	534.9	525.0	515.2	483.8	466.5	455.8	451.7
55°	4914.2	4010.0	1346.0	518.5	498.7	504.4	516.0	492.1	478.9	464.9	460.8
57.5°	5455.7	4359.5	1230.6	477.2	472.3	494.6	520.1	500.3	484.7	470.6	465.7
60°	5829.1	4550.7	1035.3	444.3	452.5	482.2	509.4	488.0	468.2	462.4	459.9
62.5°	5929.7	4527.6	803.6	410.5	428.6	455.0	481.4	467.4	446.7	455.8	456.6
65°	5694.8	4280.3	603.4	377.5	397.3	419.5	452.5	446.7	439.3	464.1	464.9
67.5°	*5029.6*	*3672.9*	*459.9*	*348.7*	*365.1*	*392.3*	*443.4*	*467.4*	*469.0*	*500.3*	*497.0*
70°	3805.6	2743.9	360.2	321.5	340.4	392.3	472.3	483.0	463.2	492.1	485.5
72.5°	2631.0	1810.9	306.6	297.6	309.9	374.2	471.5	471.5	450.0	450.0	437.7
75°	1634.5	1064.9	267.1	267.1	267.1	327.2	458.3	434.4	396.5	379.2	369.3
77.5°	806.9	517.6	224.2	232.4	223.4	273.7	374.2	355.3	332.2	314.0	307.4
80°	344.5	258.8	181.3	190.4	179.7	206.1	296.7	292.6	270.4	246.5	239.0
82.5°	158.3	133.5	145.1	149.2	131.1	155.0	216.8	216.8	204.4	171.4	159.1
85°	67.6	70.9	100.6	100.6	82.4	87.4	116.2	110.4	98.9	80.8	74.2
87.5°	23.1	34.6	51.1	44.5	17.3	7.4	4.1	1.6	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

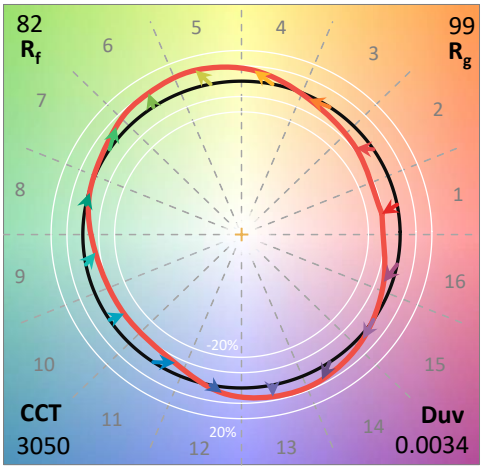
Test Information

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

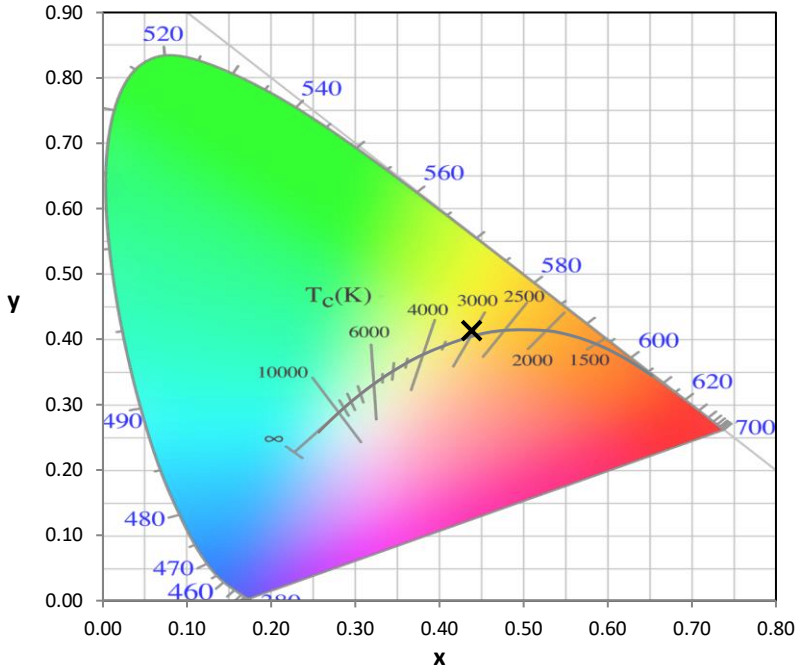
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

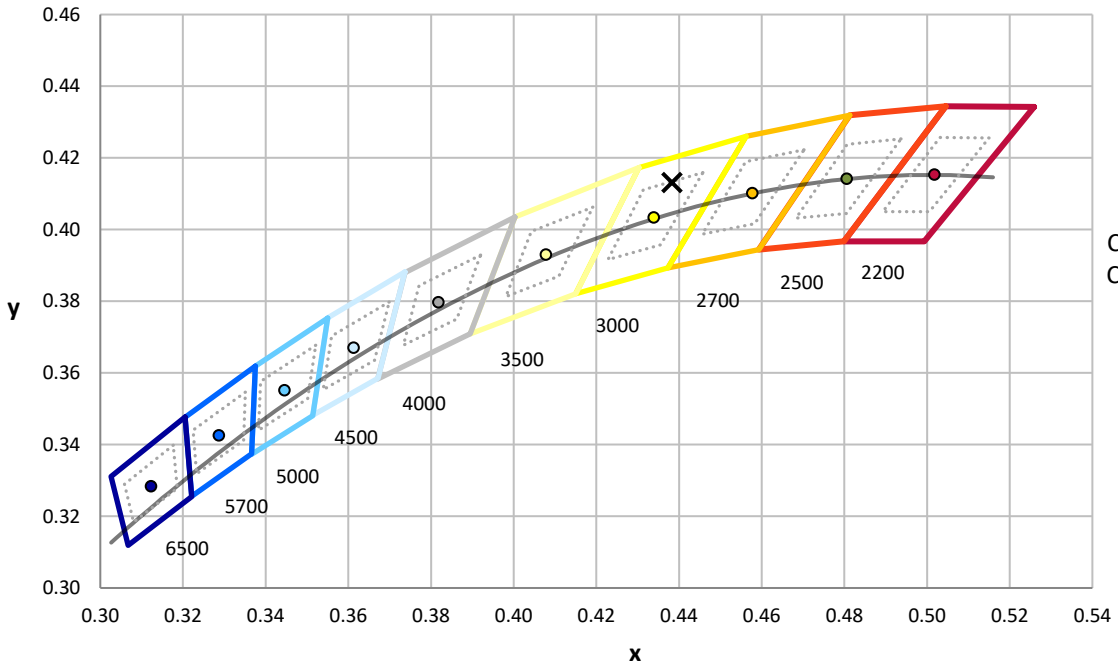
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

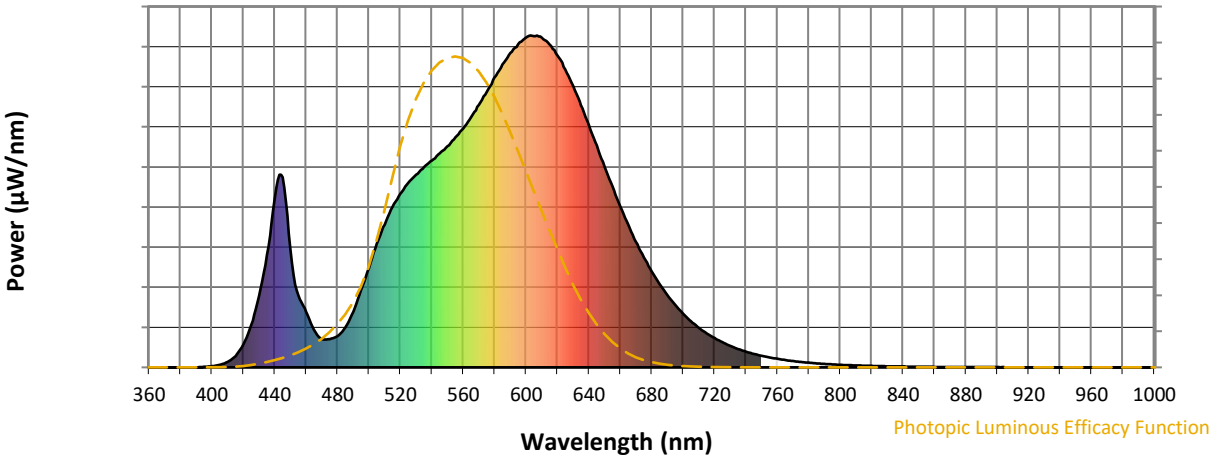


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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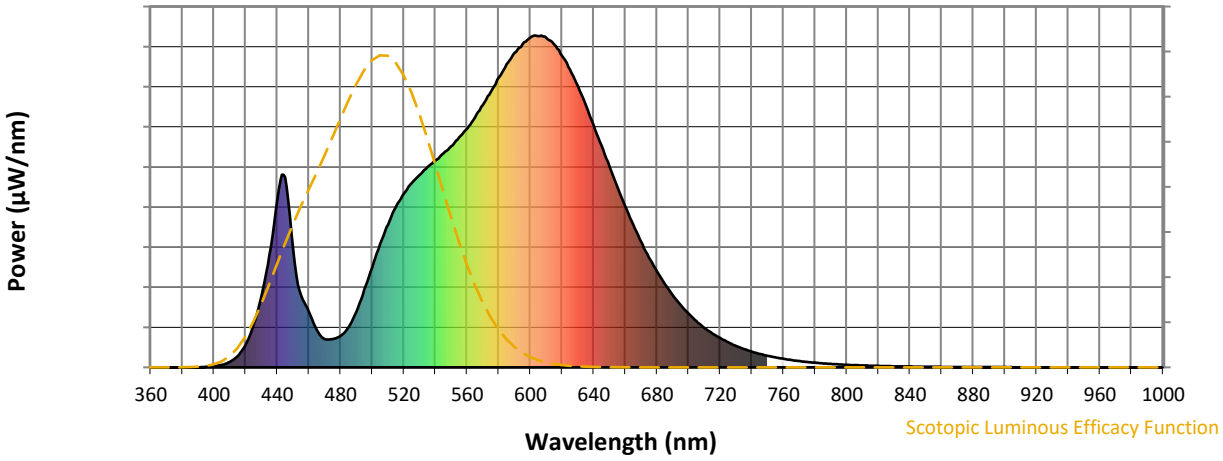
Scotopic Flux vs. Wavelength



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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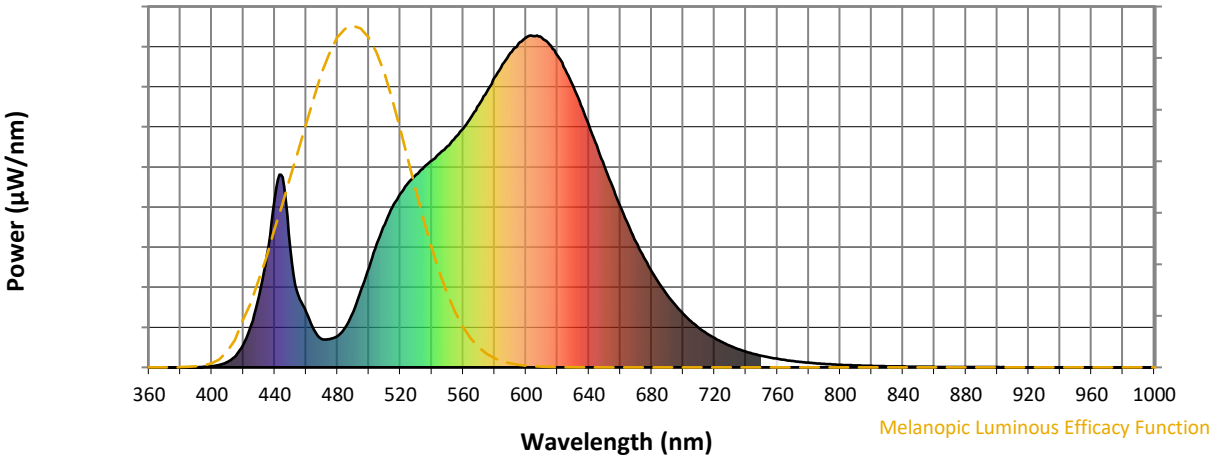
Melanopic Flux vs. Wavelength



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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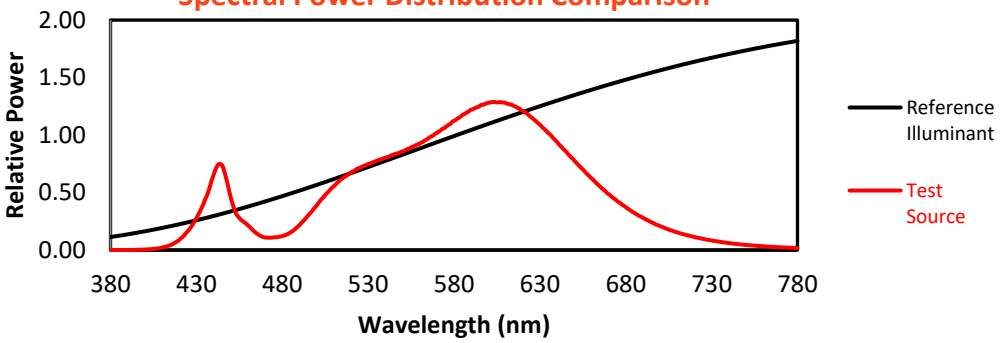
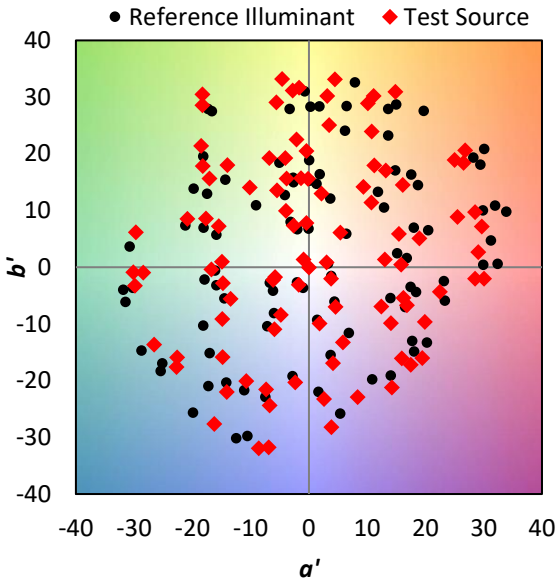
Summary

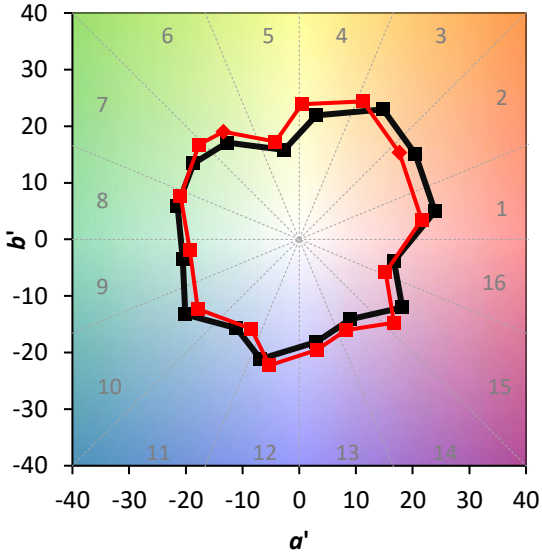
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

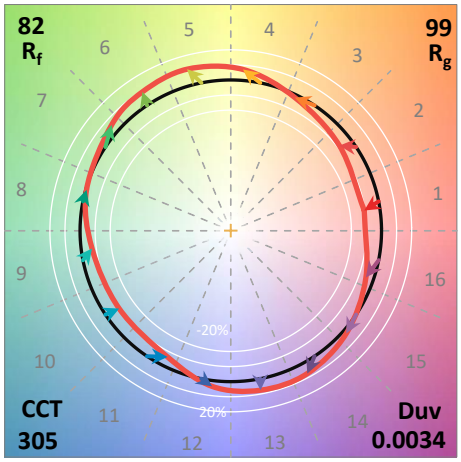
Spectral Power Distribution Comparison

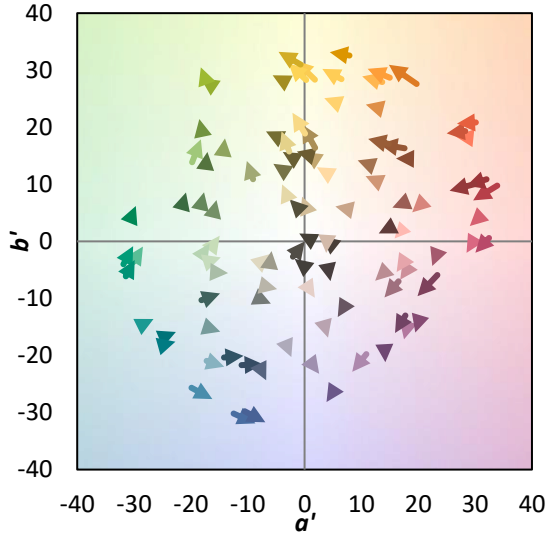


Color Vector Graphics









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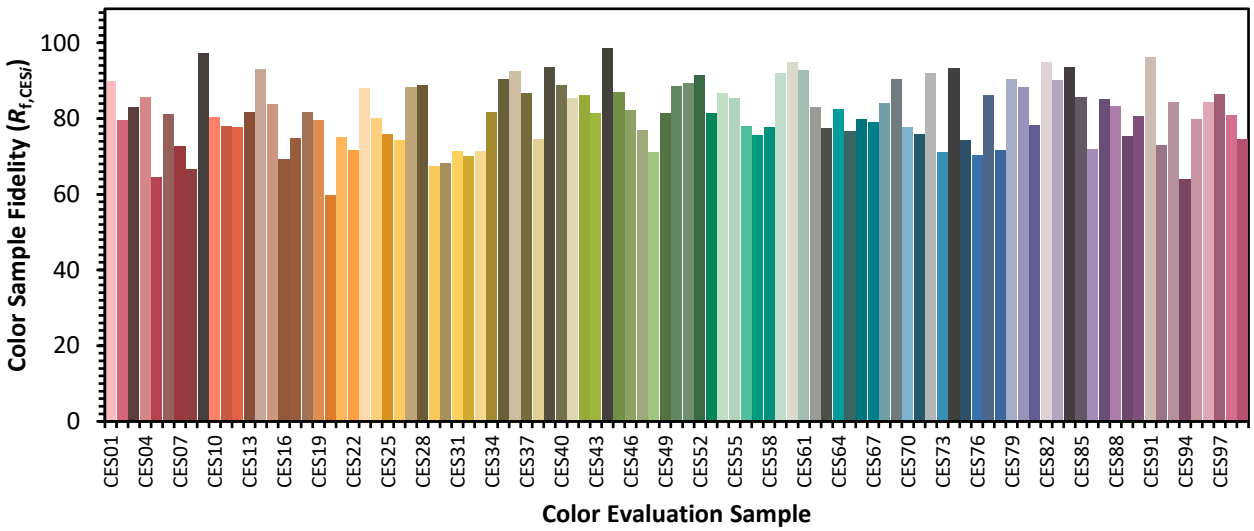
Individual Sample Fidelity Index ($R_{f,i}$)

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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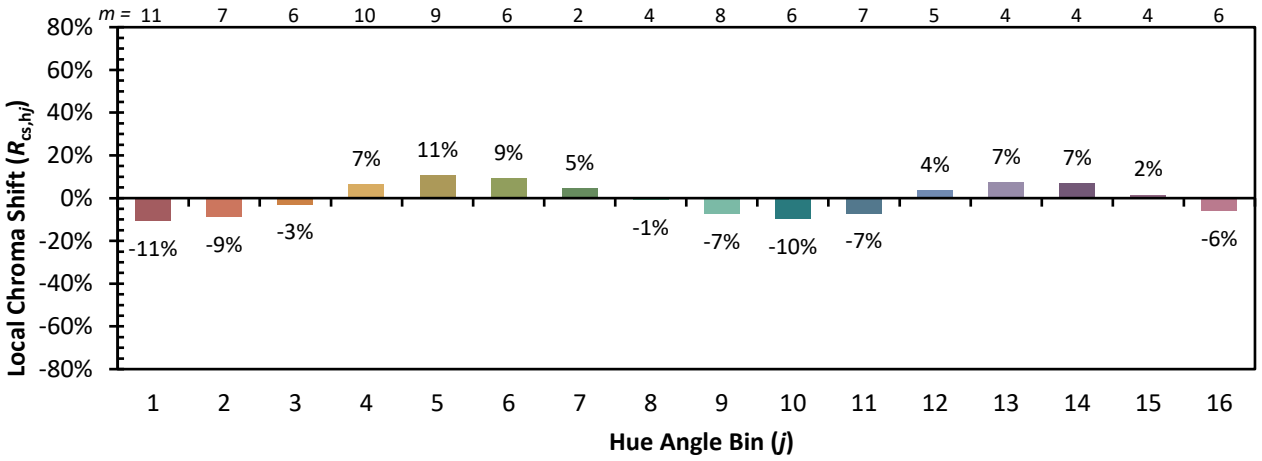
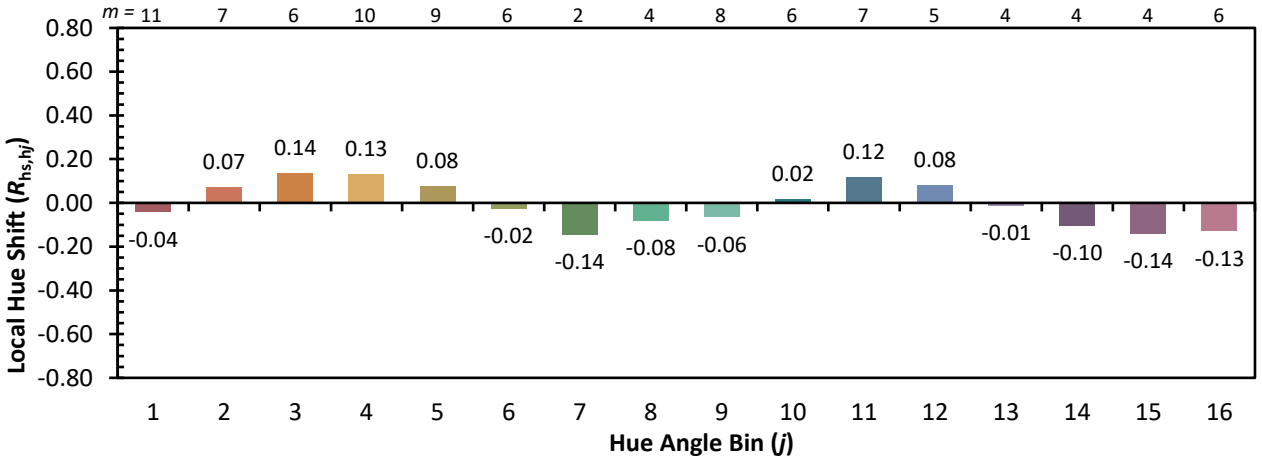
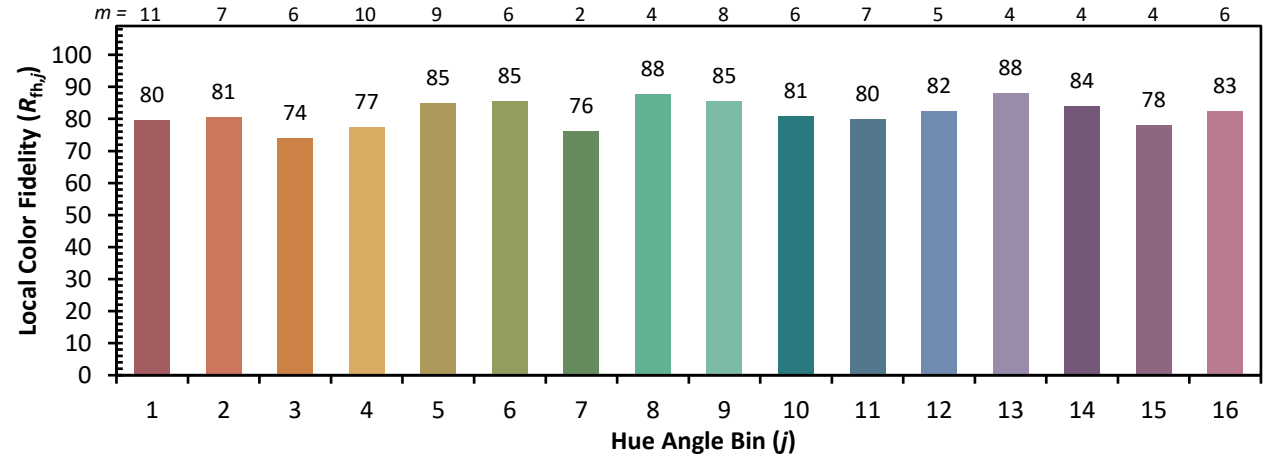
Color Rendition by Hue-Angle Bin







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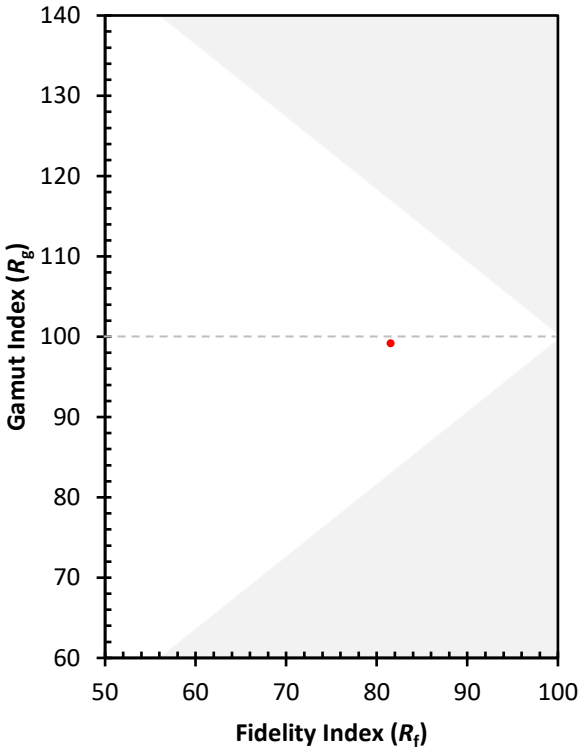
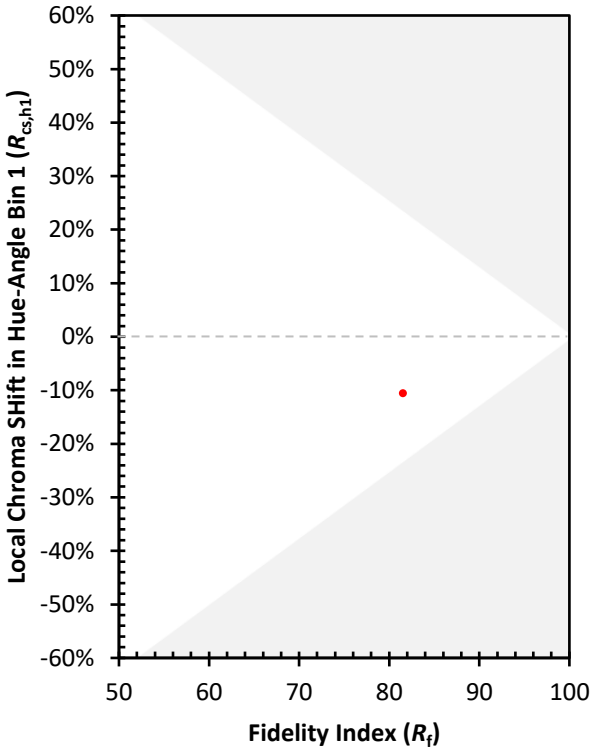
Measure Comparisons





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