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: P634515

Luminaire Tested: GWS-SA3B-830-U-SL3-W-HSS

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:	P634515
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3B-830-U-SL3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6692.2 lumens
Efficiency:	N/A
Efficacy:	98.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	68.3
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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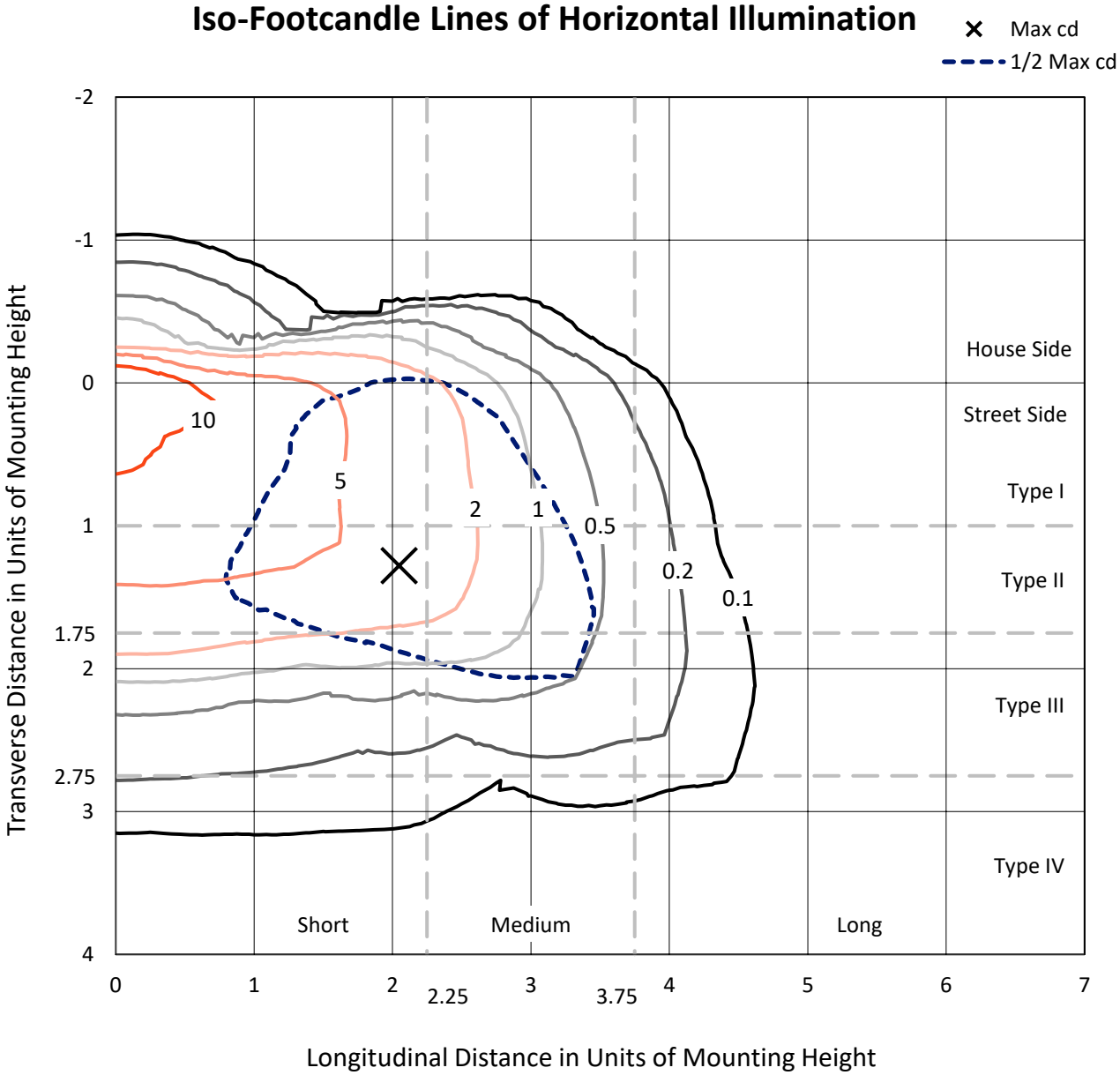
Scaled Data Report

REPORT NUMBER: P634515
CATALOG NUMBER: GWS-SA3B-830-U-SL3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 19.3 fc
Type III - Short - N/A

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REPORT NUMBER: P634515
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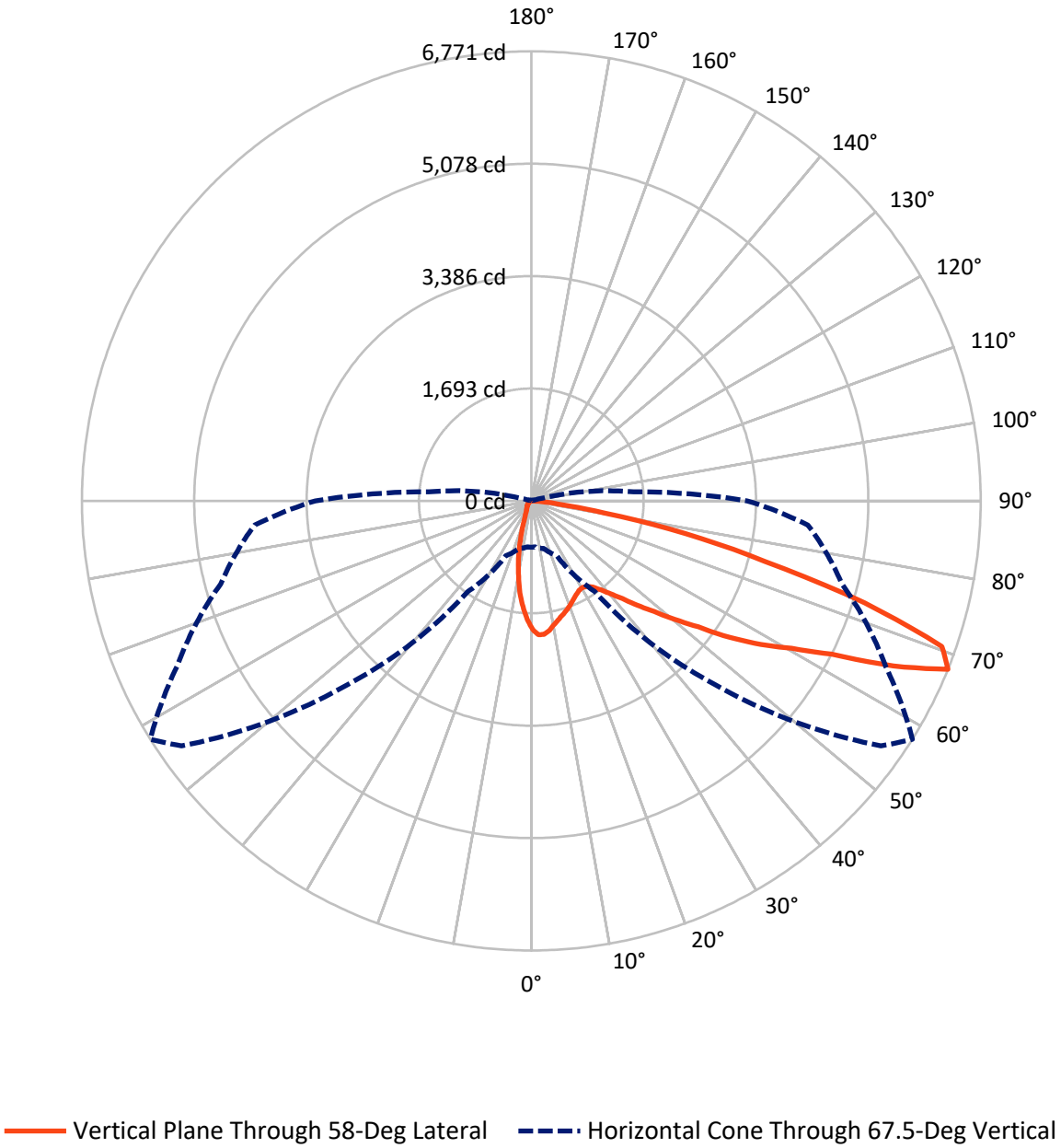
Luminous Intensity Polar Plot



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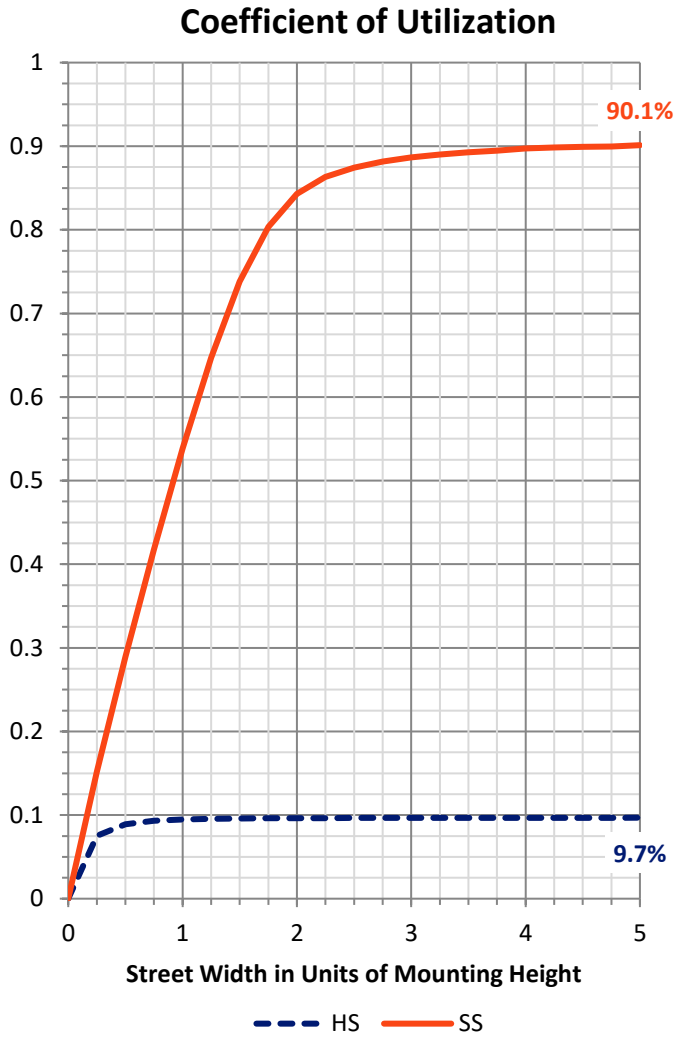
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	653.8	0.0	653.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	6038.4	0.0	6038.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	6692.2	0.0	6692.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	2.3
10°-20°	326.5	4.9
20°-30°	440.3	6.6
30°-40°	618.8	9.2
40°-50°	955.6	14.3
50°-60°	1528.2	22.8
60°-70°	1809.5	27.0
70°-80°	800.5	12.0
80°-90°	56.0	0.8
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°	6692.2	100.0
0°-180°	6692.2	100.0



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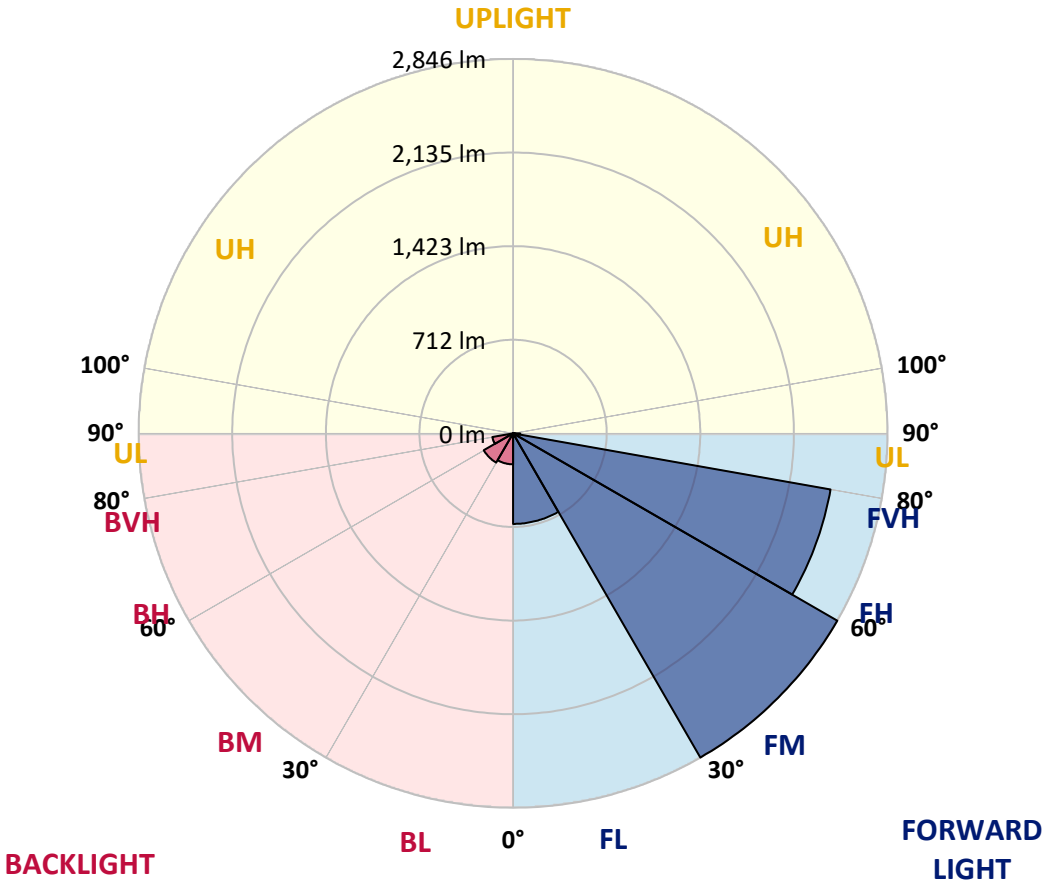
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	688.5	10.3			
FM	(30°-60°)	2846.1	42.5			
FH	(60°-80°)	2450.3	36.6			G2/5000
FVH	(80°-90°)	53.6	0.8			G1/100
BL	(0°-30°)	235.3	3.5	B1/500		
BM	(30°-60°)	256.5	3.8	B1/1000		
BH	(60°-80°)	159.6	2.4	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Short



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Scaled Data Report

REPORT NUMBER: P634515
CATALOG NUMBER: GWS-SA3B-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1930.3	1930.3	1930.3	1930.3	1930.3	1930.3	1930.3	*1930.3*	1930.3	1930.3	1930.3
2.5°	2030.4	2034.0	2038.7	2044.7	2043.5	2038.1	2031.6	*2016.8*	2007.3	1977.7	1941.6
5°	1965.3	1964.7	1976.5	1987.8	2007.9	2018.6	2033.4	*2019.8*	2015.0	1979.5	1920.9
7.5°	1837.9	1844.5	1858.1	1875.9	1904.9	1936.3	1971.8	*1967.7*	1981.9	1958.2	1885.3
10°	1713.0	1709.4	1730.7	1757.4	1801.8	1842.1	1893.6	*1893.0*	1930.3	1928.0	1845.1
12.5°	1603.4	1602.8	1619.4	1649.6	1701.7	1758.0	1827.9	*1829.7*	1875.9	1894.8	1810.7
15°	1511.0	1512.2	1528.2	1559.6	1613.5	1682.2	1763.3	*1778.1*	1830.2	1868.7	1776.9
17.5°	1445.2	1445.8	1455.3	1482.6	1535.3	1608.7	1706.5	*1726.6*	1793.5	1849.2	1749.7
20°	1415.0	1412.7	1414.4	1428.1	1468.9	1535.9	1648.4	*1674.5*	1759.8	1835.6	1724.8
22.5°	1419.2	1415.6	1407.3	1405.6	1423.9	1474.9	1586.8	*1618.8*	1723.0	1827.3	1702.3
25°	1455.9	1448.2	1436.4	1418.6	1411.5	1436.9	1532.9	*1566.1*	1688.7	1827.9	1685.1
27.5°	1512.2	1503.9	1489.1	1465.4	1437.5	1426.9	1496.2	*1527.6*	1664.4	1841.5	1676.8
30°	1583.8	1577.3	1563.1	1534.7	1497.4	1453.5	1488.5	*1514.5*	1652.6	1869.3	1680.4
32.5°	1668.5	1663.8	1652.0	1625.9	1583.2	1516.3	1514.5	*1534.7*	1662.0	1909.6	1694.0
35°	1750.3	1752.1	1752.7	1738.4	1692.8	1611.7	1586.2	*1593.3*	1701.1	1970.0	1724.8
37.5°	1838.5	1834.4	1855.7	1865.8	1822.0	1735.5	1697.0	*1697.6*	1775.8	2059.5	1782.9
40°	1905.5	1906.7	1952.9	1994.3	1976.0	1892.4	1837.4	*1836.8*	1890.7	2182.1	1876.4
42.5°	1968.3	1976.0	2044.1	2115.1	2140.6	2066.6	2026.9	*2012.1*	2051.8	2347.9	2016.8
45°	2035.2	2046.4	2141.8	2243.1	2310.0	2266.2	2234.8	*2240.7*	2245.5	2541.0	2205.8
47.5°	2113.4	2120.5	2238.3	2381.1	2506.1	2494.8	2496.6	*2489.5*	2487.1	2784.5	2455.7
50°	2208.1	2224.7	2360.4	2530.9	2701.5	2776.2	2801.0	*2804.0*	2765.5	3049.8	2714.6
52.5°	2409.5	2429.7	2545.8	2695.0	2914.8	3071.7	3173.0	*3152.9*	3093.6	3306.9	2998.3
55°	2647.0	2662.4	2774.4	2929.0	3175.4	3395.7	3636.2	*3627.9*	3482.8	3577.6	3231.7
57.5°	2669.5	2686.7	2860.3	3097.2	3510.0	3796.1	4049.0	*4075.7*	3863.1	3769.5	3440.1
60°	2416.6	2451.6	2688.5	3007.2	3638.0	4334.5	4501.6	*4506.9*	4142.0	3964.3	3694.8
62.5°	1936.9	1953.4	2192.1	2607.9	3440.7	4648.5	5192.8	*5080.3*	4500.4	4265.8	4098.2
65°	1015.2	1082.7	1290.6	1750.9	2790.4	4538.9	6024.4	*5993.6*	5144.8	4697.6	4412.1
67.5°	*696.6*	*696.0*	*745.1*	*912.8*	*1663.8*	*3908.1*	*6432.5*	*6771.3*	*5889.9*	*4845.7*	*4184.7*
70°	530.1	531.9	575.7	684.7	861.8	2601.4	5984.7	*6564.0*	6028.6	4399.7	3384.5
72.5°	351.8	355.4	428.2	553.2	688.3	1275.2	4650.8	*5252.0*	5072.6	3533.7	2382.3
75°	210.3	213.2	265.4	402.2	611.9	713.7	2955.0	*3630.9*	3491.7	2435.6	1277.0
77.5°	86.5	88.8	136.2	250.5	447.8	554.4	1634.2	*2375.8*	2091.5	968.4	348.9
80°	36.1	37.3	65.7	175.3	322.8	347.7	757.0	*1116.5*	857.1	208.5	106.6
82.5°	13.0	13.6	24.3	96.5	200.8	261.8	382.0	*441.3*	241.7	68.1	57.5
85°	0.6	0.6	5.9	32.6	76.4	74.0	218.6	*211.5*	80.0	28.4	34.4
87.5°	0.0	0.0	0.6	0.6	1.2	3.0	20.7	*36.7*	17.2	7.1	14.8
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: P634515
CATALOG NUMBER: GWS-SA3B-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1930.3	1930.3	1930.3	1930.3	1930.3	1930.3	1930.3	1930.3	1930.3	1930.3	1930.3
2.5°	1917.9	1886.5	1852.2	1820.2	1769.2	1739.0	1701.7	1685.1	1661.4	1655.5	1659.1
5°	1878.8	1824.9	1742.6	1668.0	1571.4	1493.8	1415.6	1382.5	1339.8	1311.4	1299.5
7.5°	1823.7	1753.2	1624.7	1489.1	1356.4	1214.8	1107.0	1036.0	971.4	935.9	928.7
10°	1768.1	1676.2	1492.0	1297.8	1092.2	922.8	777.1	669.3	581.7	542.0	511.2
12.5°	1710.6	1596.3	1357.0	1103.5	864.8	633.8	453.7	348.9	286.1	261.2	265.4
15°	1657.9	1519.3	1223.1	909.2	608.9	382.6	250.5	211.5	196.6	191.9	191.3
17.5°	1607.5	1446.4	1089.9	720.3	401.6	234.6	191.9	182.4	178.3	175.9	175.9
20°	1561.9	1376.5	959.5	542.6	259.4	186.0	173.5	168.8	165.3	163.5	163.5
22.5°	1519.3	1309.0	832.2	383.8	191.3	167.0	159.3	154.6	150.4	148.1	148.1
25°	1480.8	1248.0	710.8	264.2	164.7	152.8	144.5	139.2	132.1	127.9	127.9
27.5°	1452.9	1193.5	594.1	192.5	148.7	137.4	127.9	120.8	113.1	108.4	107.2
30°	1436.4	1147.3	476.2	158.1	133.9	122.6	111.9	103.1	94.2	89.4	88.8
32.5°	1426.9	1104.7	368.4	138.0	121.4	108.4	96.5	87.1	78.2	72.9	72.3
35°	1430.4	1071.5	276.0	124.4	109.6	96.0	82.9	73.4	65.7	61.0	59.8
37.5°	1461.2	1056.7	207.3	113.7	99.5	85.3	71.7	62.8	55.7	52.1	51.5
40°	1521.1	1059.6	162.9	105.4	91.2	74.6	61.6	53.3	48.0	45.0	44.4
42.5°	1614.1	1084.5	134.5	98.3	82.3	65.2	53.3	46.8	41.5	38.5	37.9
45°	1752.7	1136.1	117.3	90.0	72.9	56.3	46.2	40.3	35.5	32.0	31.4
47.5°	1953.4	1225.5	106.0	82.3	64.6	48.6	39.7	33.8	29.6	26.7	26.1
50°	2167.3	1332.7	96.5	74.6	57.5	42.1	33.8	27.8	24.3	21.3	20.7
52.5°	2395.3	1448.2	89.4	67.5	50.9	36.1	28.4	23.1	19.5	16.6	16.0
55°	2614.5	1564.3	81.1	62.8	43.2	30.8	23.7	19.0	15.4	13.0	13.0
57.5°	2827.7	1670.9	72.3	55.1	35.5	26.1	19.5	15.4	12.4	10.7	10.1
60°	3082.4	1818.4	62.2	46.8	29.6	21.9	16.0	12.4	10.1	8.3	8.3
62.5°	3460.9	1971.8	53.3	39.1	24.9	18.4	13.0	10.1	8.3	7.1	6.5
65°	3584.7	1888.9	45.0	32.0	20.1	14.8	10.7	8.9	7.1	6.5	5.9
67.5°	*3254.2*	*1548.3*	*37.3*	*26.1*	*16.6*	*12.4*	*9.5*	*7.7*	*6.5*	*5.9*	*5.3*
70°	2539.2	1098.7	29.0	19.5	13.6	10.1	8.3	7.1	5.9	5.3	5.3
72.5°	1727.2	649.8	23.1	14.8	11.3	8.9	7.1	6.5	5.9	5.3	4.7
75°	850.6	231.0	17.8	11.3	8.9	7.7	6.5	5.9	5.3	4.7	4.7
77.5°	229.2	64.0	13.6	8.9	7.1	5.9	5.9	5.9	5.3	4.1	4.1
80°	77.6	26.7	10.1	6.5	5.9	4.7	4.1	5.3	4.7	4.1	3.6
82.5°	42.6	13.0	7.1	5.3	4.1	3.6	3.6	3.6	3.6	3.0	3.0
85°	27.2	7.1	4.7	4.1	4.1	3.0	2.4	2.4	1.8	1.8	1.8
87.5°	12.4	4.1	4.1	3.6	3.6	3.0	1.8	1.2	0.6	0.6	0.6
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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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

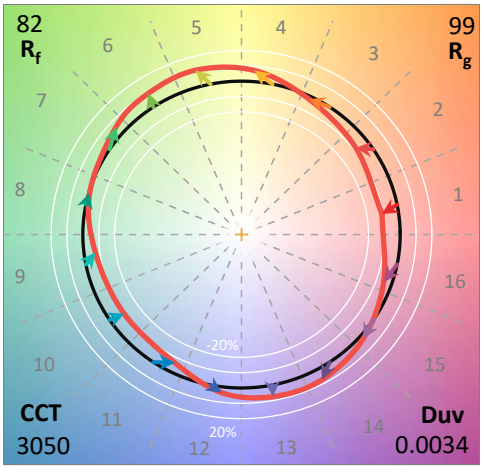
Test Information

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

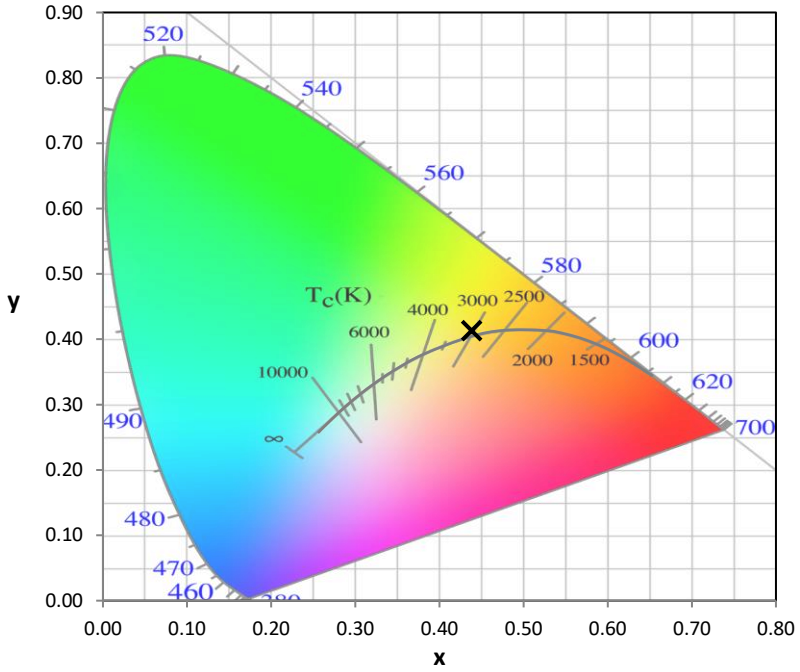
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

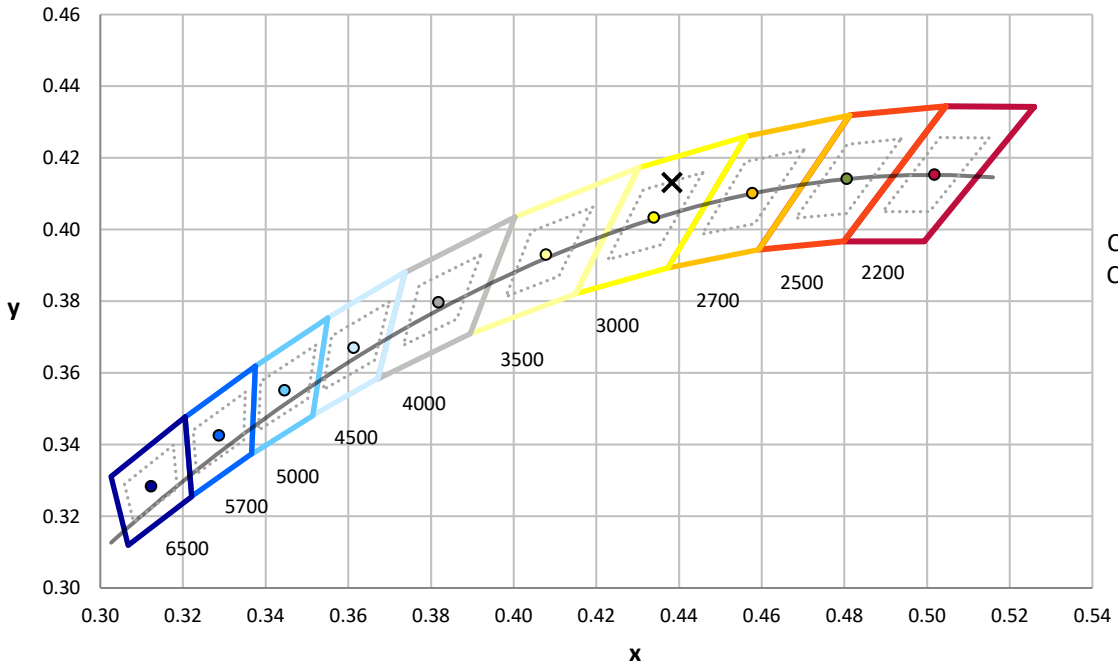
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

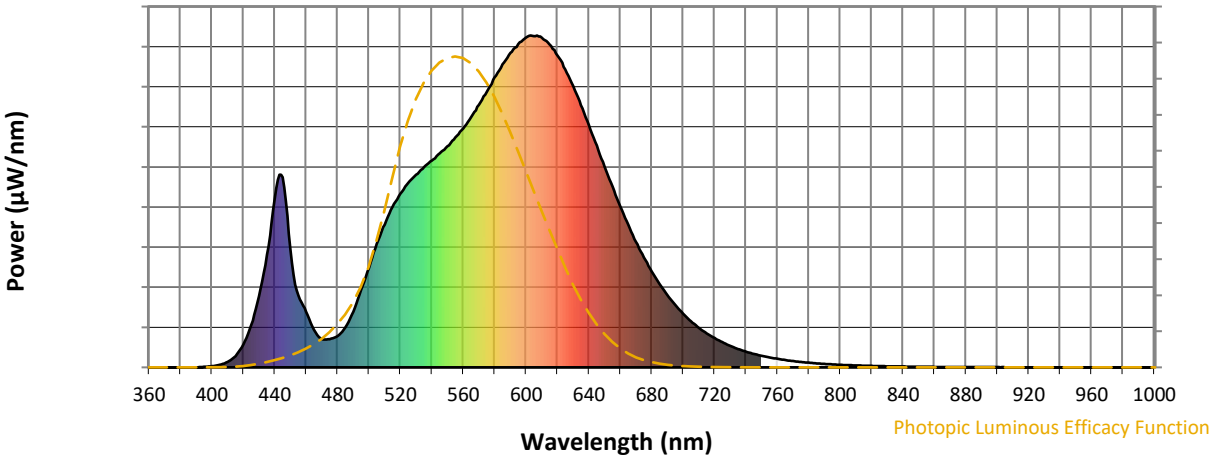


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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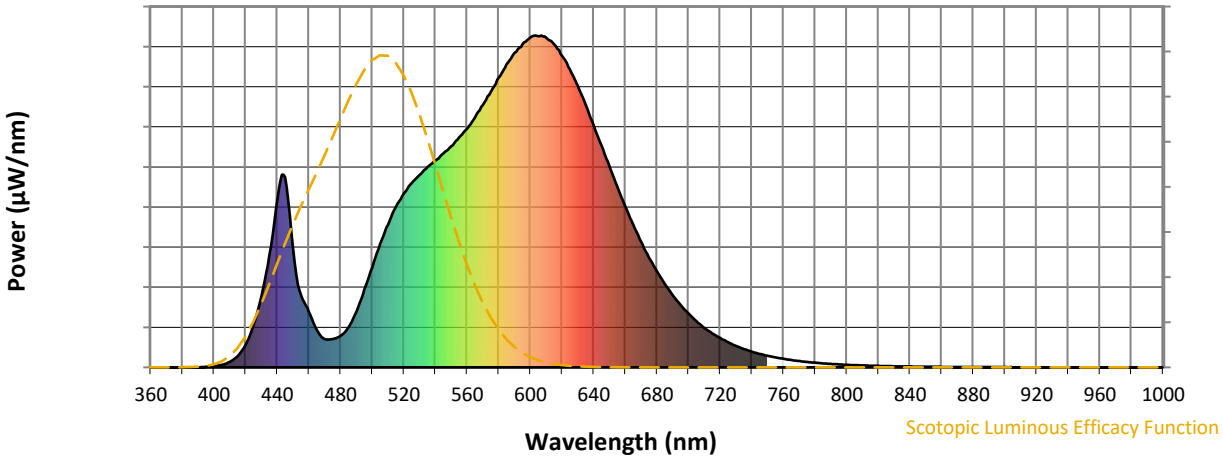
Scotopic Flux vs. Wavelength



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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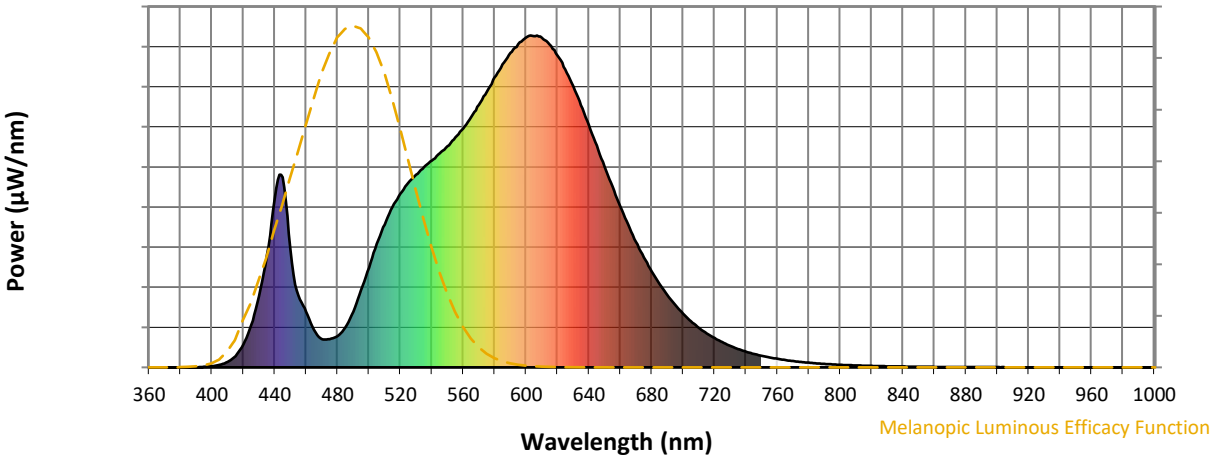
Melanopic Flux vs. Wavelength



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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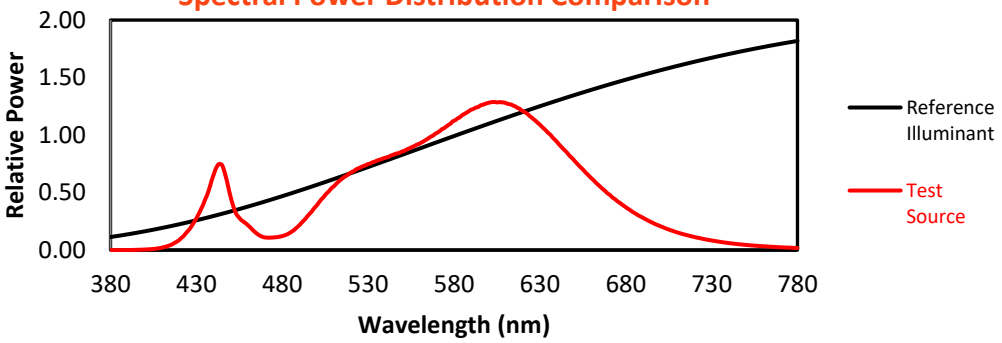
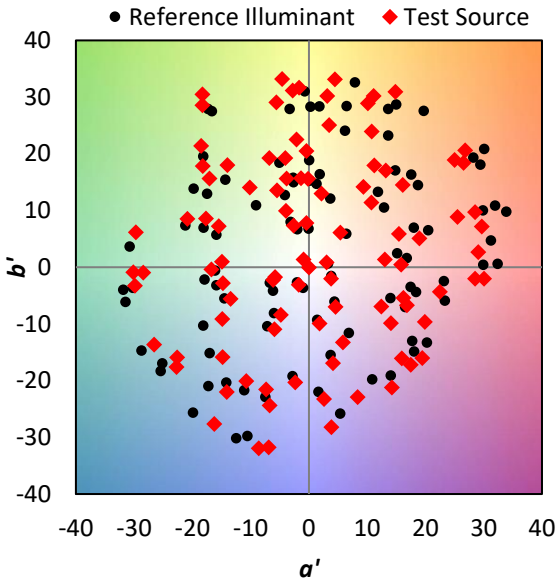
Summary

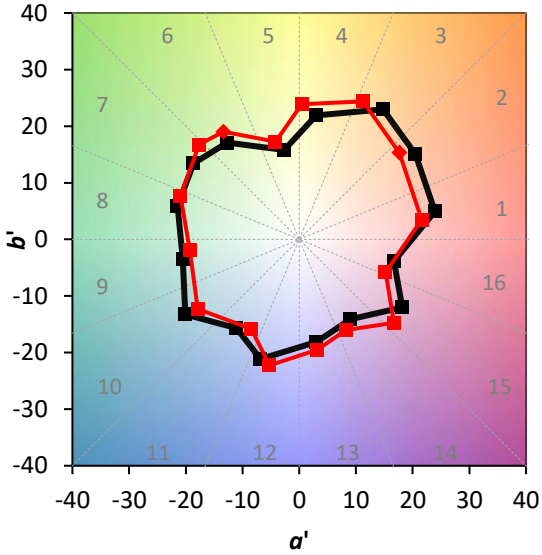
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

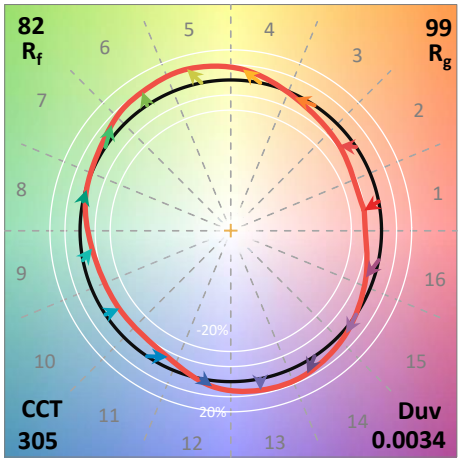
Spectral Power Distribution Comparison

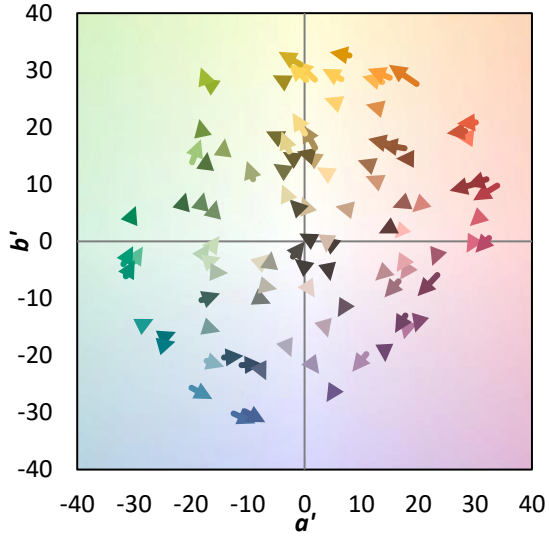


Color Vector Graphics









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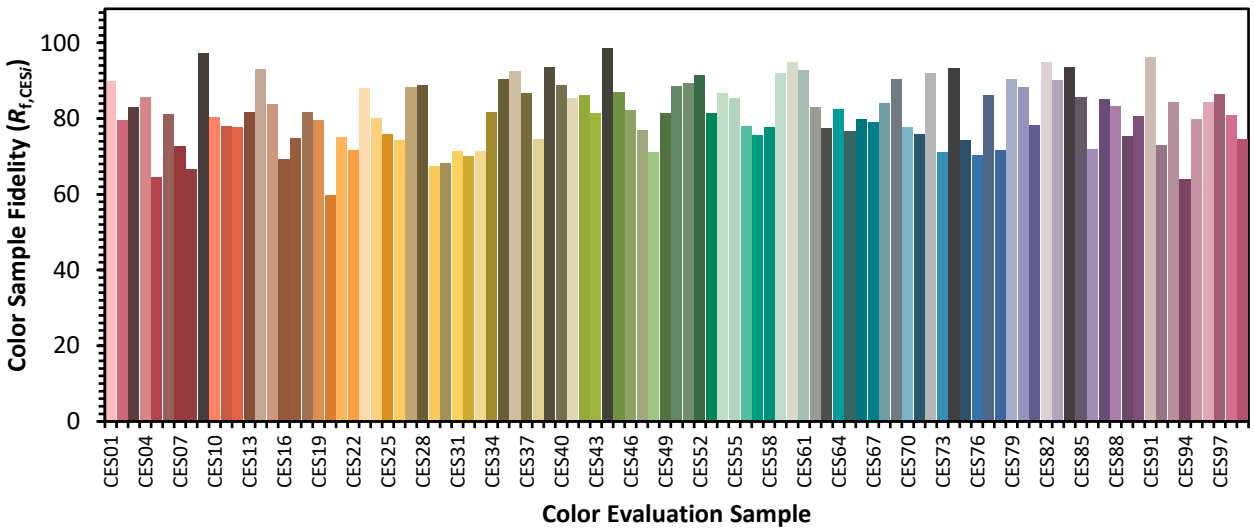
Individual Sample Fidelity Index ($R_{f,i}$)

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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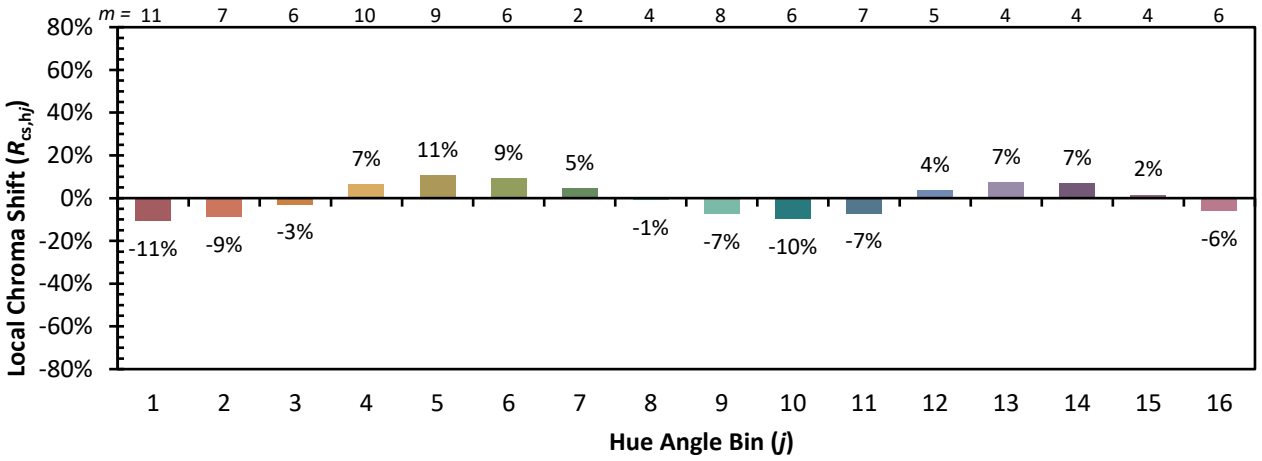
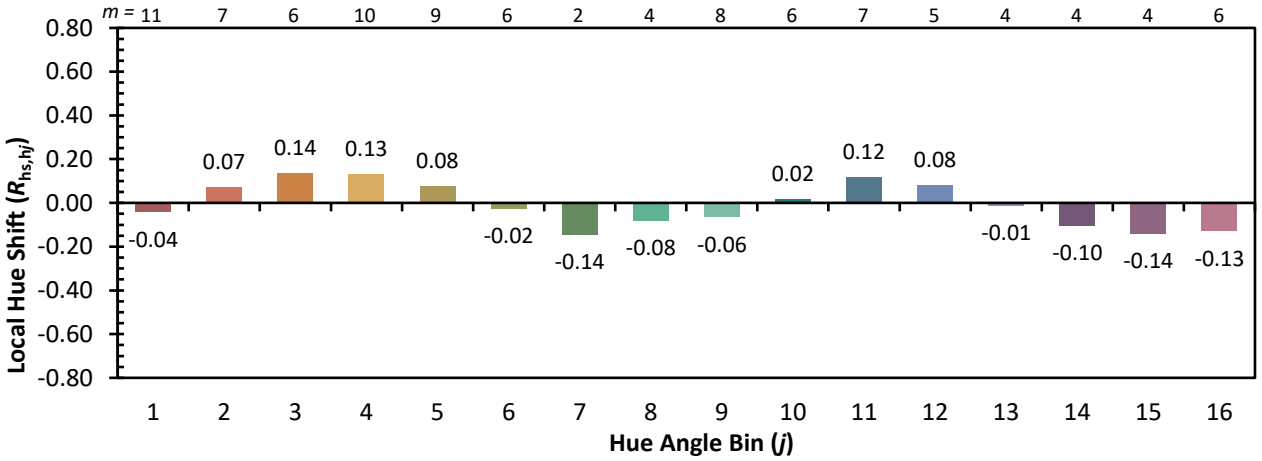
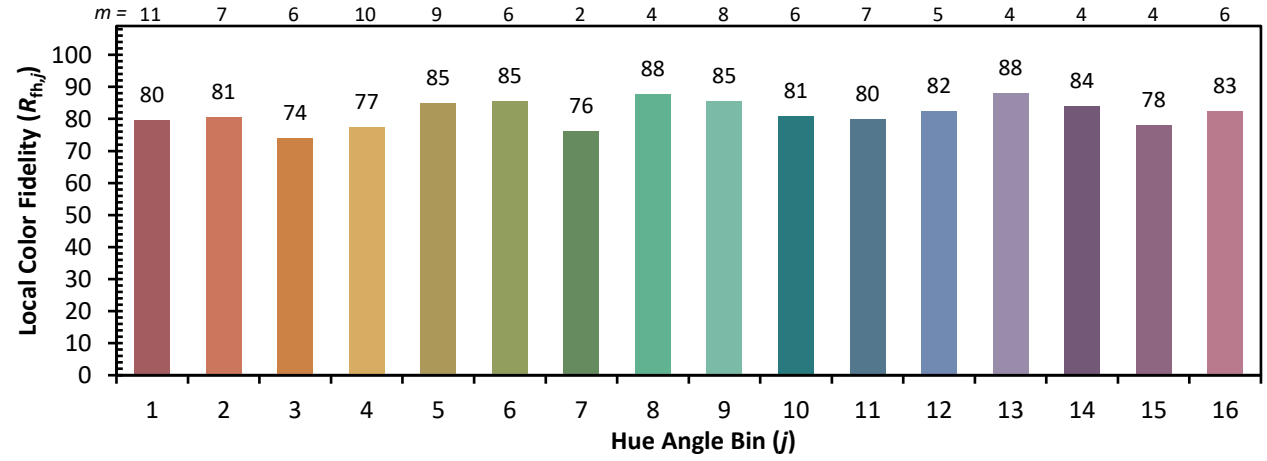
Color Rendition by Hue-Angle Bin







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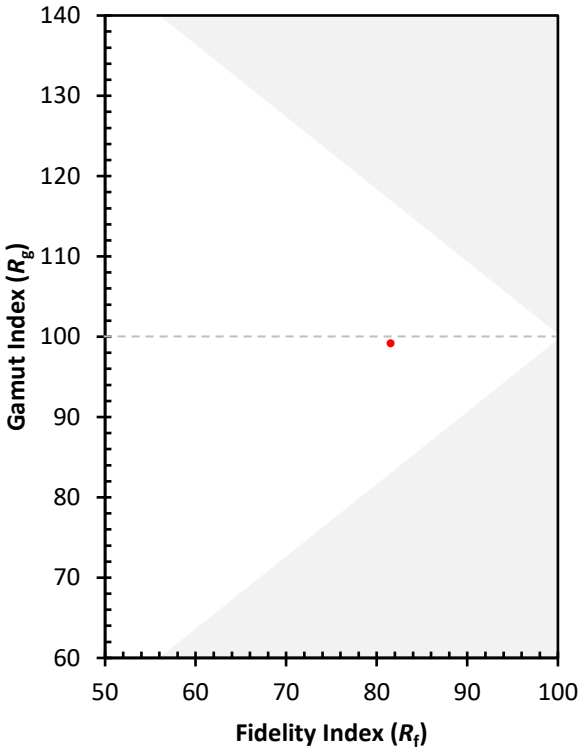
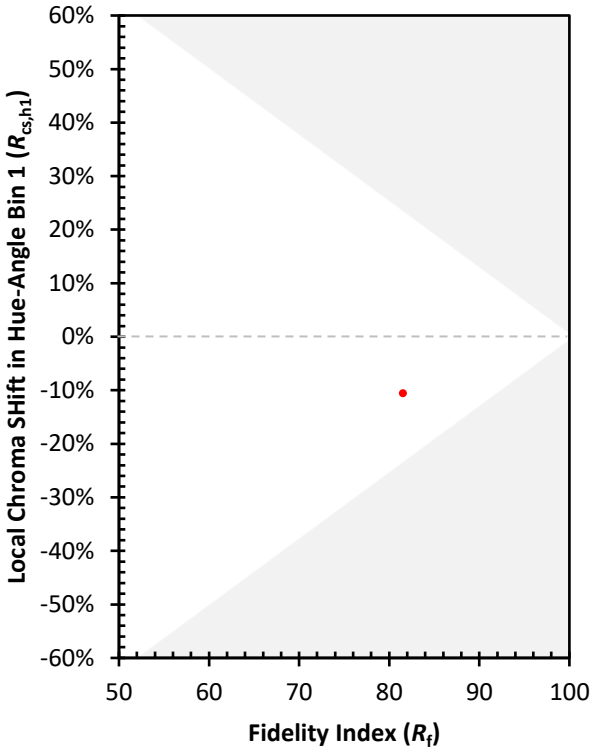
Measure Comparisons





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