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: P633027

Luminaire Tested: GWS-SA2D-830-U-SL2-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:	P633027
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2D-830-U-SL2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9114.8 lumens
Efficiency:	N/A
Efficacy:	111.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	82.1
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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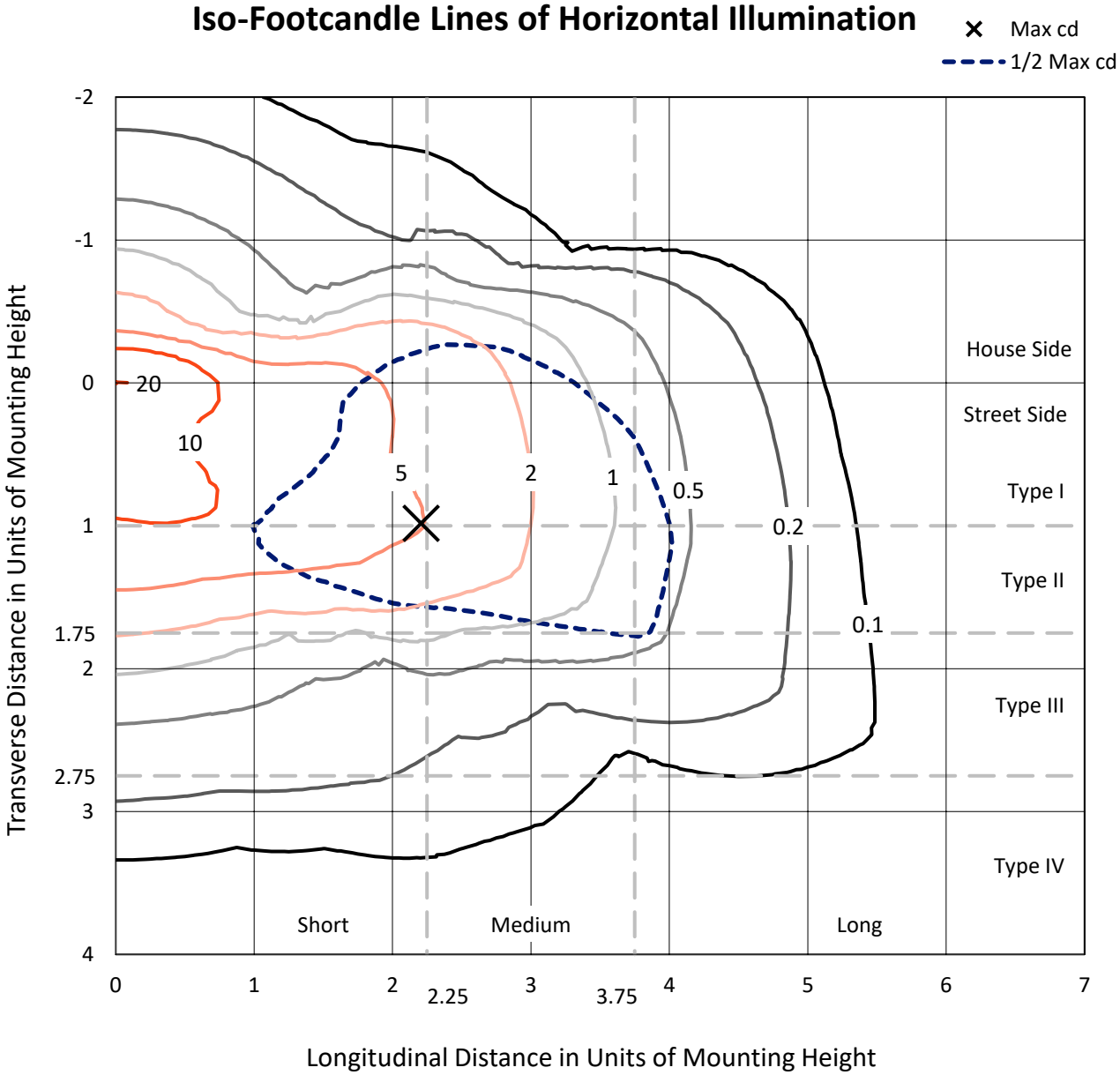
Scaled Data Report

REPORT NUMBER: P633027
CATALOG NUMBER: GWS-SA2D-830-U-SL2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 20.1 fc
Type II - Short - N/A

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REPORT NUMBER: P633027
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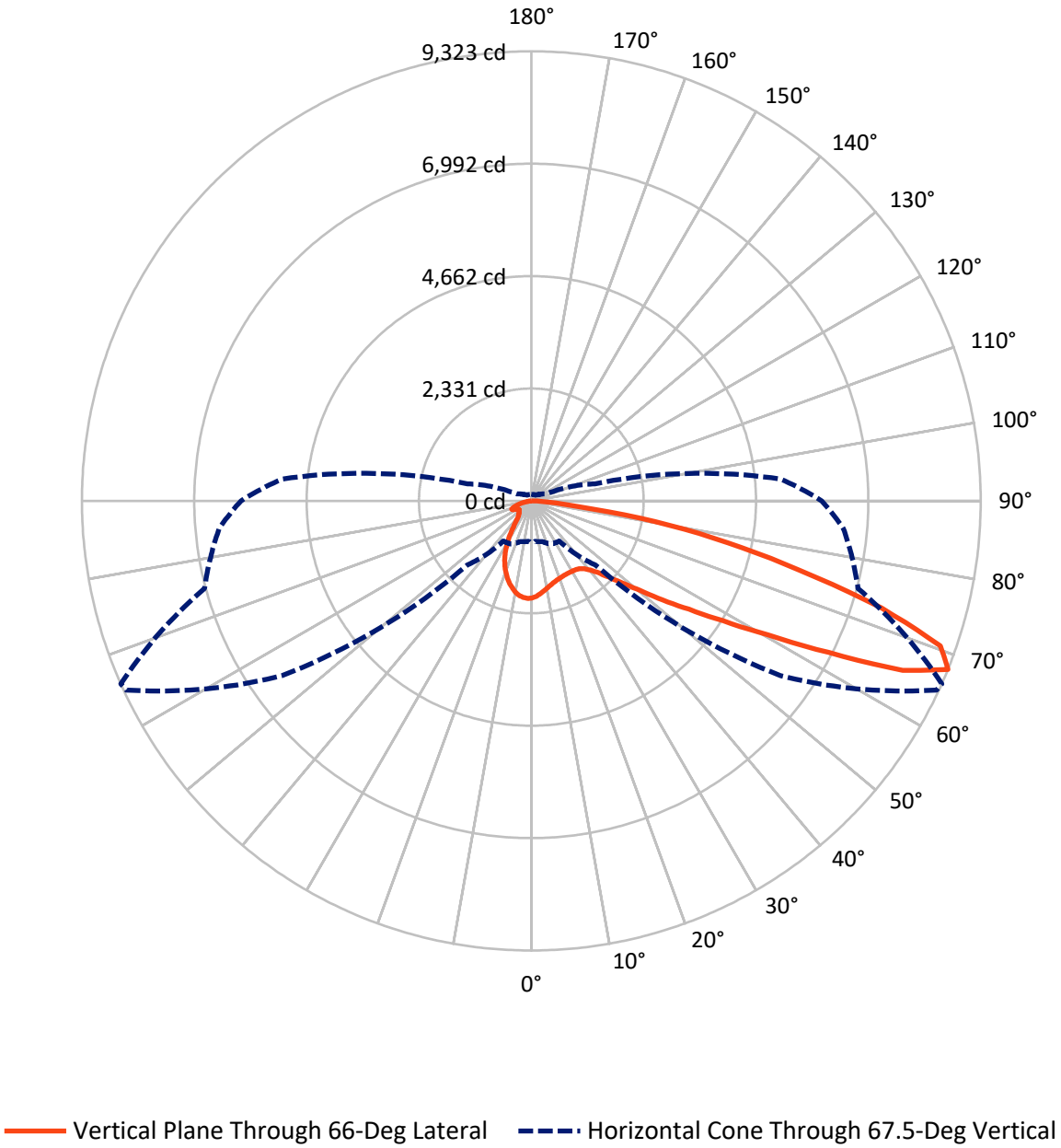
Luminous Intensity Polar Plot



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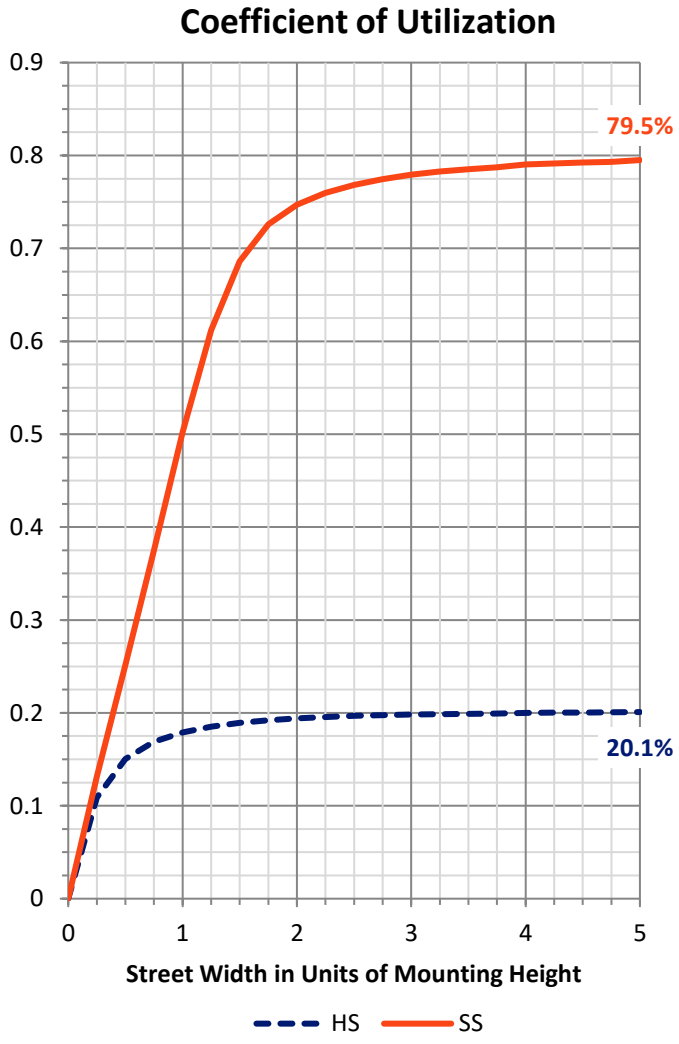
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1849.6	0.0	1849.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	7265.2	0.0	7265.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	9114.8	0.0	9114.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	1.9
10°-20°	434.4	4.8
20°-30°	597.1	6.6
30°-40°	816.4	9.0
40°-50°	1237.0	13.6
50°-60°	1923.0	21.1
60°-70°	2341.2	25.7
70°-80°	1426.1	15.6
80°-90°	162.9	1.8
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°	9114.8	100.0
0°-180°	9114.8	100.0



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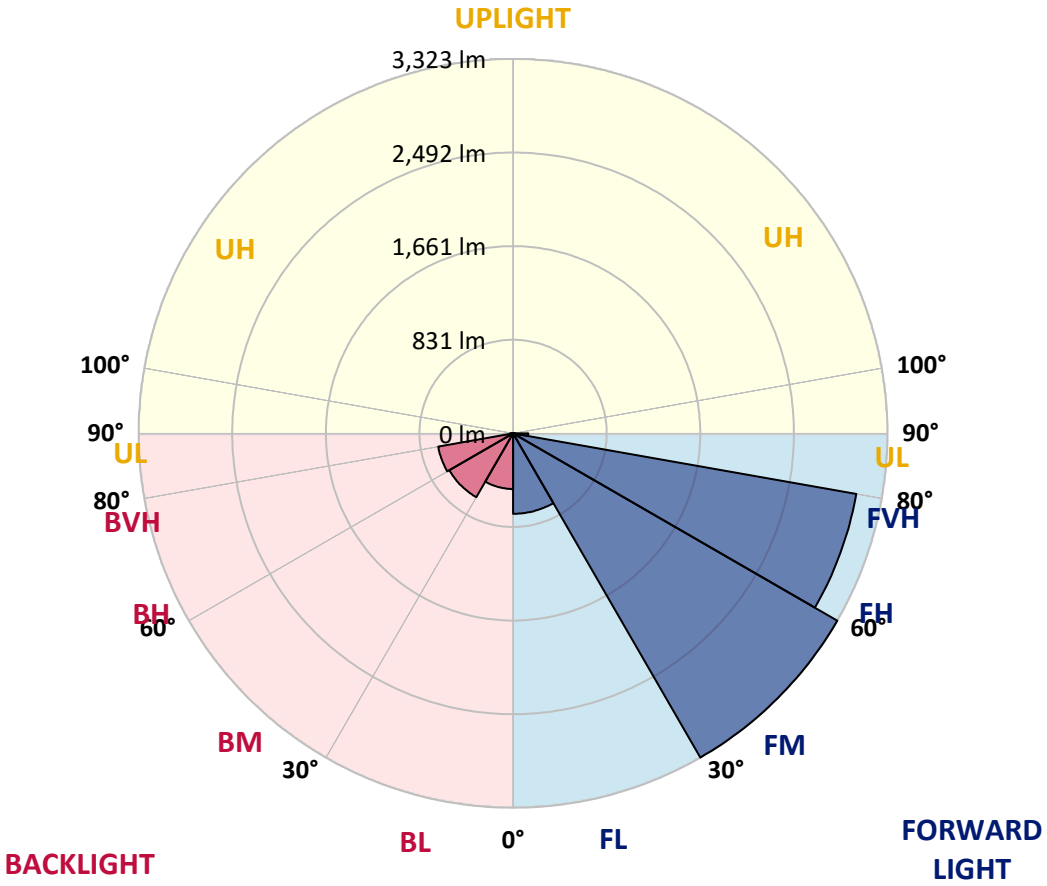
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	714.2	7.8			
FM	(30°-60°)	3322.7	36.5			
FH	(60°-80°)	3092.9	33.9			G2/5000
FVH	(80°-90°)	135.4	1.5			G2/225
BL	(0°-30°)	494.1	5.4	B1/500		
BM	(30°-60°)	653.6	7.2	B1/1000		
BH	(60°-80°)	674.4	7.4	B2/1000		G2/1000
BVH	(80°-90°)	27.5	0.3			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 II Short



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Scaled Data Report

REPORT NUMBER: P633027
CATALOG NUMBER: GWS-SA2D-830-U-SL2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	*2014.1*	2014.1	2014.1
2.5°	1886.4	1893.1	1889.1	1914.4	1915.7	1947.6	1965.6	1980.9	*1982.2*	2002.1	2015.4
5°	1757.4	1761.4	1761.4	1785.4	1801.3	1843.9	1885.1	1929.0	*1932.3*	1980.2	2016.8
7.5°	1653.0	1657.0	1654.4	1686.3	1706.9	1754.1	1806.6	1873.8	*1880.5*	1957.6	2021.4
10°	1571.3	1569.9	1576.6	1605.8	1632.4	1689.0	1747.5	1823.9	*1833.9*	1931.7	2026.7
12.5°	1515.4	1516.7	1520.7	1551.3	1579.9	1635.8	1696.3	1779.4	*1790.0*	1901.7	2024.1
15°	1488.8	1486.1	1489.5	1517.4	1544.7	1593.9	1656.4	1742.2	*1752.8*	1875.1	2024.8
17.5°	1482.8	1480.8	1480.2	1500.1	1520.7	1566.6	1626.5	1713.6	*1724.9*	1857.9	2028.7
20°	1501.4	1498.8	1491.5	1500.1	1508.8	1547.3	1605.2	1692.9	*1705.6*	1846.5	2036.7
22.5°	1552.6	1548.0	1536.7	1526.0	1514.7	1538.0	1591.9	1677.7	*1690.3*	1839.2	2044.7
25°	1630.4	1626.5	1614.5	1590.5	1549.3	1545.3	1589.2	1671.0	*1683.6*	1833.9	2048.0
27.5°	1737.5	1731.5	1719.5	1685.0	1617.8	1572.6	1599.2	1670.3	*1682.3*	1827.9	2044.7
30°	1864.5	1860.5	1853.9	1812.0	1722.2	1630.4	1621.8	1675.7	*1685.0*	1824.6	2038.0
32.5°	1993.5	1989.5	1994.8	1974.9	1864.5	1726.2	1671.0	1690.3	*1696.9*	1823.9	2032.1
35°	2107.2	2111.9	2150.4	2153.8	2045.4	1855.9	1748.8	1724.2	*1725.5*	1837.2	2034.7
37.5°	2226.2	2244.2	2294.7	2337.9	2247.5	2027.4	1864.5	1788.0	*1786.7*	1871.1	2051.3
40°	2383.8	2391.8	2456.3	2537.4	2480.9	2262.8	2028.7	1892.4	*1883.1*	1940.3	2095.9
42.5°	2537.4	2556.7	2659.8	2752.9	2734.2	2528.1	2235.5	2048.7	*2032.1*	2062.7	2187.7
45°	2732.9	2751.5	2867.2	2986.9	3020.8	2828.0	2500.2	2270.8	*2254.2*	2246.8	2355.9
47.5°	2928.4	2947.7	3051.4	3224.3	3343.3	3203.0	2844.6	2564.0	*2536.8*	2508.2	2609.9
50°	3060.1	3082.7	3181.8	3389.2	3668.5	3671.1	3252.9	2948.4	*2913.8*	2868.6	2967.6
52.5°	3055.4	3070.0	3164.5	3403.8	3902.5	4209.1	3799.5	3437.8	*3409.8*	3311.4	3397.9
55°	2815.4	2837.3	2932.4	3231.6	3927.8	4719.1	4602.7	4014.9	*3965.1*	3788.8	3883.9
57.5°	2333.3	2351.9	2447.7	2816.7	3703.7	4980.4	5622.8	4750.4	*4681.9*	4308.8	4418.5
60°	1761.4	1738.8	1784.0	2107.2	3167.8	4987.1	6523.1	5747.8	*5633.4*	4864.7	4956.5
62.5°	1321.9	1299.3	1309.3	1400.4	2147.8	4584.1	7036.4	7112.2	*6923.4*	5492.4	5474.5
65°	1044.6	1032.0	1060.6	1123.1	1252.1	3491.0	7040.4	8587.7	*8468.7*	6219.9	6005.8
67.5°	*851.1*	*843.1*	*872.4*	*988.1*	*1015.4*	*1875.8*	*6313.0*	*9276.6*	*9323.2*	*7016.5*	*6498.5*
70°	685.6	673.6	719.5	871.7	944.2	1135.1	4522.3	8925.5	*9000.7*	7491.2	6359.5
72.5°	473.4	474.1	497.4	706.2	911.6	980.1	2558.0	7432.1	*7595.0*	7061.0	5590.8
75°	319.2	321.8	328.5	466.1	839.8	950.9	1363.1	5626.7	*5741.8*	5836.2	4621.4
77.5°	192.8	194.2	209.5	281.9	579.2	887.7	923.6	4078.8	*4169.2*	3847.4	2864.6
80°	111.7	116.4	130.3	188.8	391.0	666.9	714.8	2500.9	*2603.3*	1710.2	910.3
82.5°	49.2	52.5	71.1	109.7	228.1	567.2	557.9	988.1	*973.5*	476.8	315.8
85°	8.6	10.6	15.3	34.6	83.8	299.2	432.9	436.2	*410.3*	180.9	131.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	65.2	117.0	*116.4*	51.2	45.2
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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Scaled Data Report

REPORT NUMBER: P633027
CATALOG NUMBER: GWS-SA2D-830-U-SL2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1
2.5°	2024.1	2006.1	2022.1	2024.1	2020.8	2018.1	1998.2	1980.9	1978.9	1960.3	1960.3
5°	2031.4	2014.8	2022.8	2007.5	1983.5	1958.9	1916.4	1887.1	1873.8	1849.9	1849.9
7.5°	2041.4	2024.1	2014.8	1976.9	1921.0	1867.2	1798.7	1741.5	1718.2	1684.3	1683.0
10°	2050.7	2028.7	1996.8	1923.0	1833.9	1748.1	1648.4	1567.3	1512.1	1471.5	1471.5
12.5°	2050.0	2021.4	1958.3	1849.2	1726.2	1601.8	1468.9	1346.5	1273.4	1210.2	1206.2
15°	2048.7	2009.5	1909.1	1763.4	1600.5	1428.3	1247.4	1087.8	979.5	917.6	912.3
17.5°	2047.4	1994.2	1853.9	1665.7	1447.6	1212.9	974.1	801.3	710.8	672.9	674.3
20°	2047.4	1976.9	1794.7	1553.3	1271.4	954.9	714.8	589.1	566.5	568.5	570.5
22.5°	2041.4	1955.6	1728.9	1431.0	1075.2	702.2	527.3	484.7	496.7	515.3	518.0
25°	2027.4	1920.4	1652.4	1295.3	841.8	511.3	430.2	422.2	444.2	467.5	474.1
27.5°	2005.5	1879.8	1566.6	1136.4	619.7	410.9	378.4	377.7	395.0	412.3	418.2
30°	1982.2	1834.6	1476.2	959.5	448.8	357.7	345.1	345.1	353.7	364.4	363.1
32.5°	1954.9	1788.7	1379.1	775.3	365.7	327.8	323.8	321.8	323.2	327.2	327.2
35°	1931.7	1748.1	1279.4	580.5	327.8	311.2	307.2	302.5	300.6	297.9	299.2
37.5°	1923.0	1716.2	1176.3	437.5	309.2	299.2	292.6	285.9	281.3	279.9	279.3
40°	1937.0	1702.9	1073.2	360.4	295.9	286.6	279.3	270.6	266.6	266.6	266.6
42.5°	1991.5	1712.9	968.2	325.8	286.6	276.0	265.3	257.3	256.0	257.3	258.0
45°	2091.2	1751.5	859.1	308.5	278.6	265.3	252.7	246.7	246.7	248.0	248.0
47.5°	2269.5	1852.5	751.4	297.9	270.6	256.7	243.4	237.4	236.7	238.0	238.0
50°	2578.0	2034.7	654.3	290.6	264.6	250.0	236.7	228.7	226.7	226.1	226.1
52.5°	2967.0	2350.6	592.5	285.3	257.3	242.7	229.4	218.8	214.8	212.8	212.8
55°	3437.1	2771.5	592.5	281.3	248.0	234.1	218.8	208.1	202.1	199.5	199.5
57.5°	3969.7	3261.5	694.9	277.9	240.7	224.1	207.5	196.8	190.2	186.2	186.2
60°	4511.6	3779.5	948.2	273.3	234.1	211.5	194.8	184.9	176.2	171.6	170.9
62.5°	5073.5	4350.1	1282.0	276.0	229.4	199.5	181.5	170.2	162.9	158.3	157.6
65°	5588.2	4893.3	1573.9	296.6	230.1	188.8	166.2	156.3	150.3	144.3	143.6
67.5°	*6025.0*	*5193.2*	*1369.1*	*338.5*	*244.0*	*176.2*	*150.9*	*141.0*	*135.6*	*131.7*	*131.0*
70°	5719.2	4735.7	776.7	364.4	263.3	162.9	133.7	127.0	121.7	119.0	118.4
72.5°	4890.7	4009.6	519.3	321.8	240.0	145.6	117.7	112.4	108.4	105.1	104.4
75°	3961.7	3179.8	397.0	264.0	186.8	118.4	101.1	97.1	93.1	89.8	89.1
77.5°	2343.9	1837.2	292.6	208.8	131.7	92.4	83.8	80.5	76.5	73.8	73.1
80°	748.1	638.3	185.5	143.6	87.1	71.1	64.5	61.8	57.9	54.5	53.9
82.5°	285.3	246.7	98.4	73.1	57.9	48.5	43.2	40.6	37.9	34.6	33.9
85°	126.3	118.4	54.5	39.2	31.3	23.9	21.3	19.9	16.6	14.0	13.3
87.5°	44.6	44.6	23.3	11.3	6.6	3.3	2.0	0.7	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

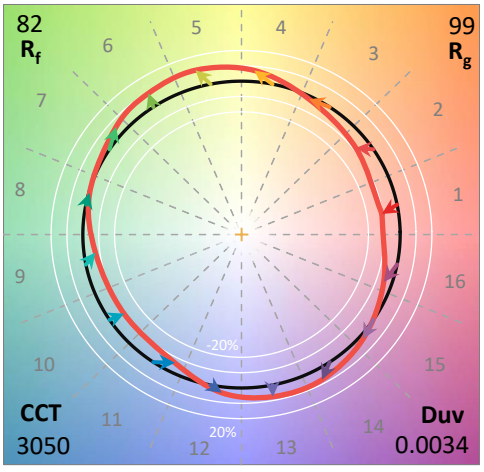
Test Information

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

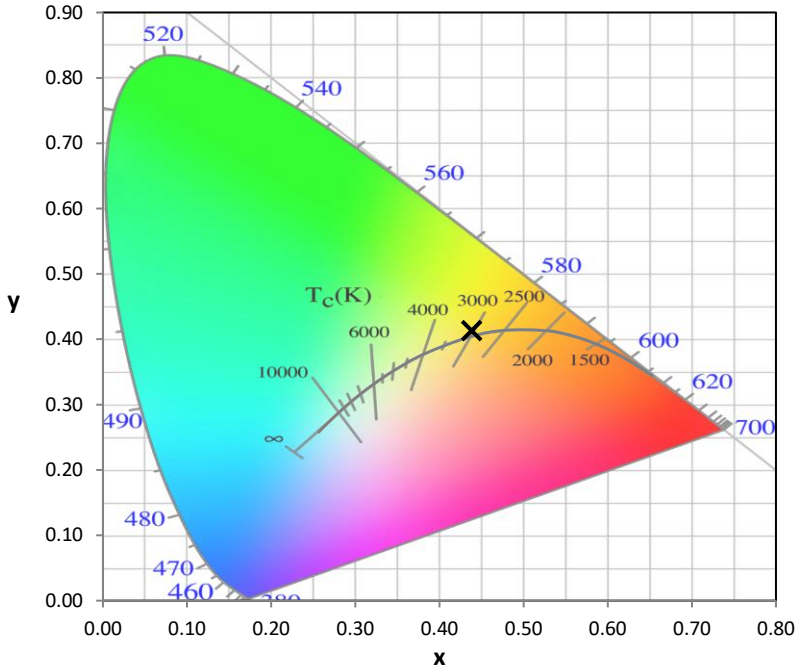
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

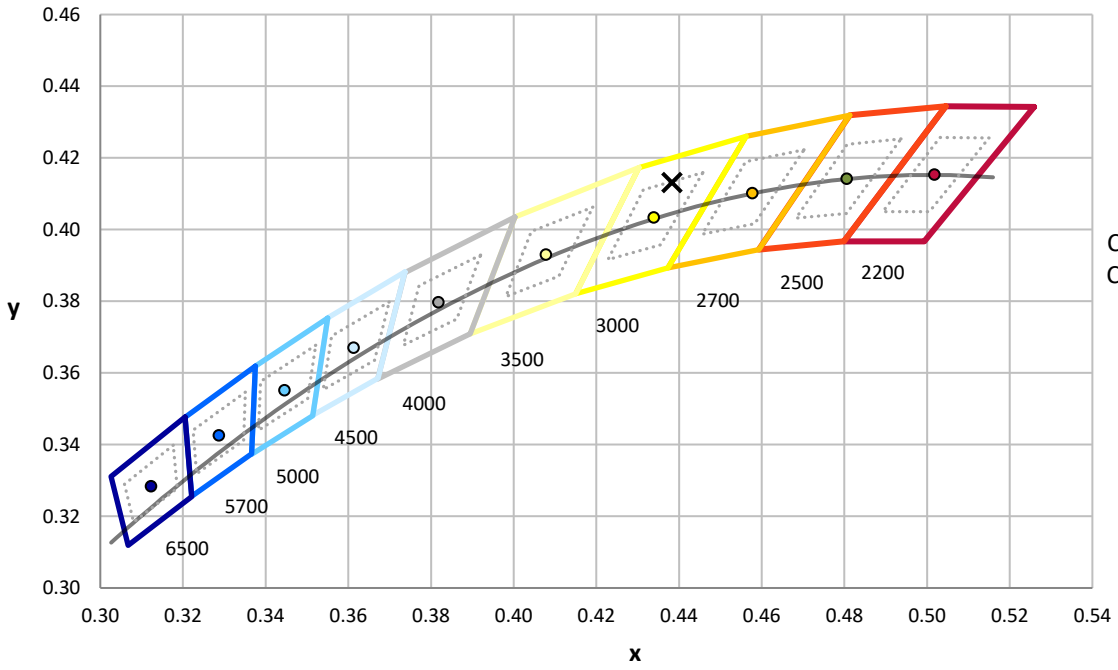
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

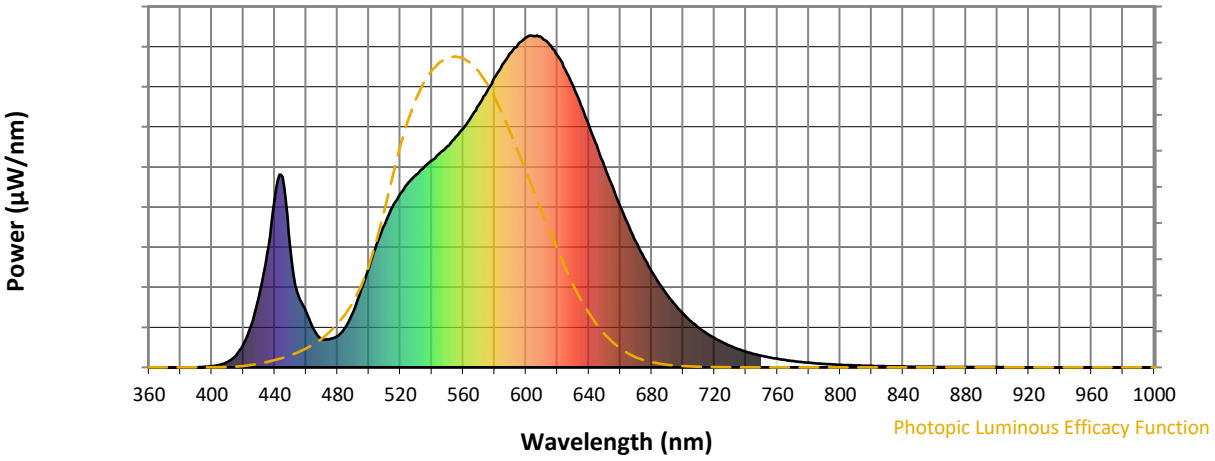


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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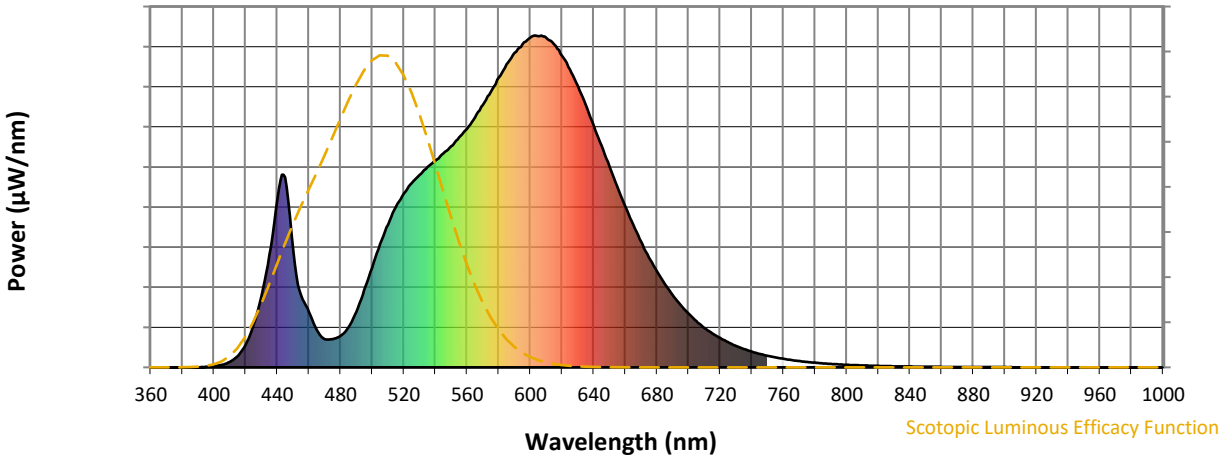
Scotopic Flux vs. Wavelength



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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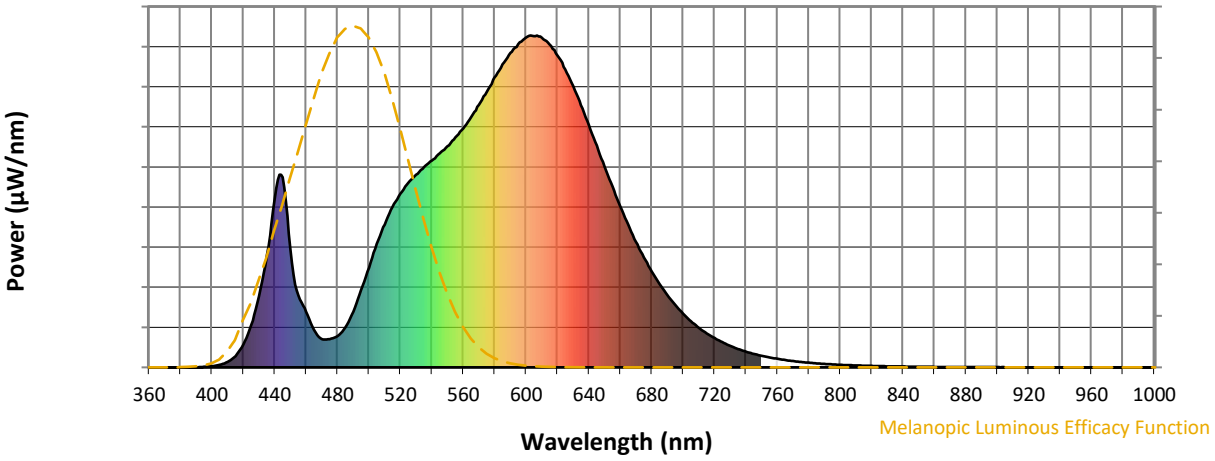
Melanopic Flux vs. Wavelength



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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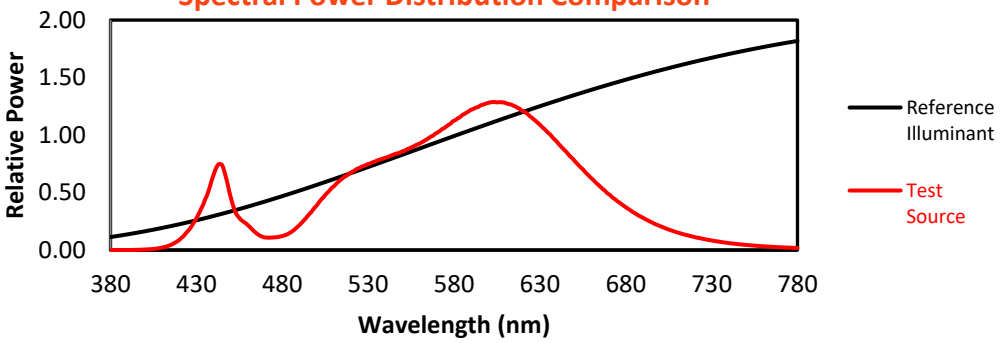
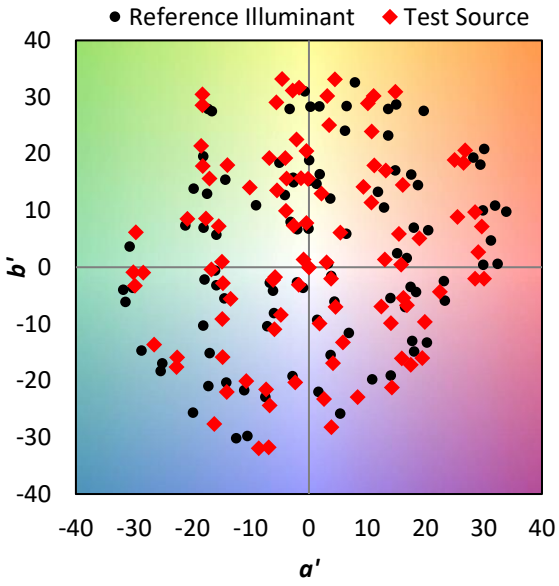
Summary

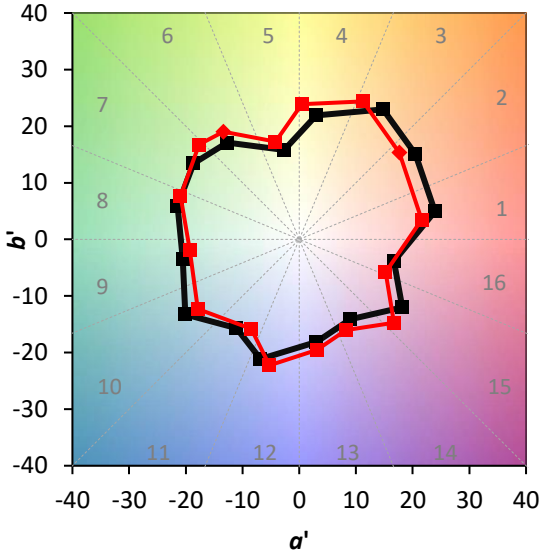
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

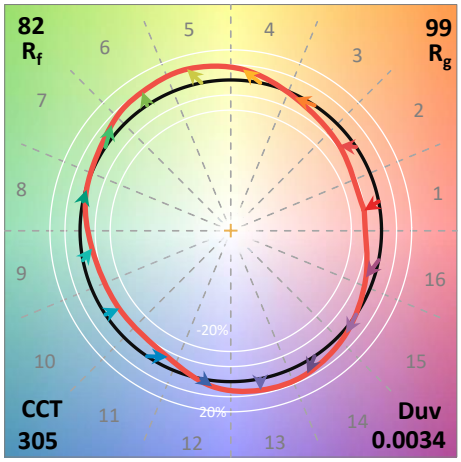
Spectral Power Distribution Comparison

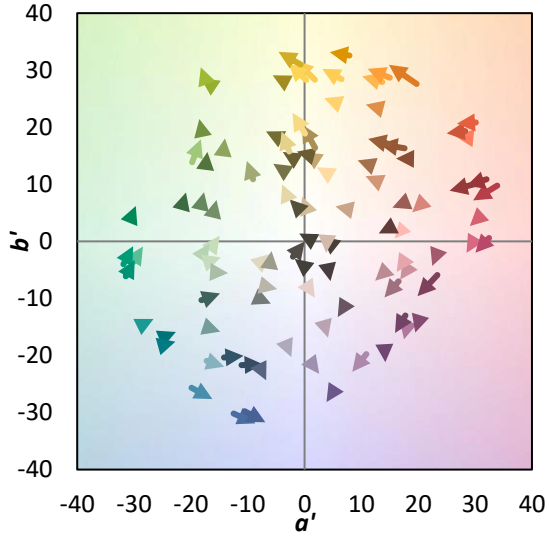


Color Vector Graphics









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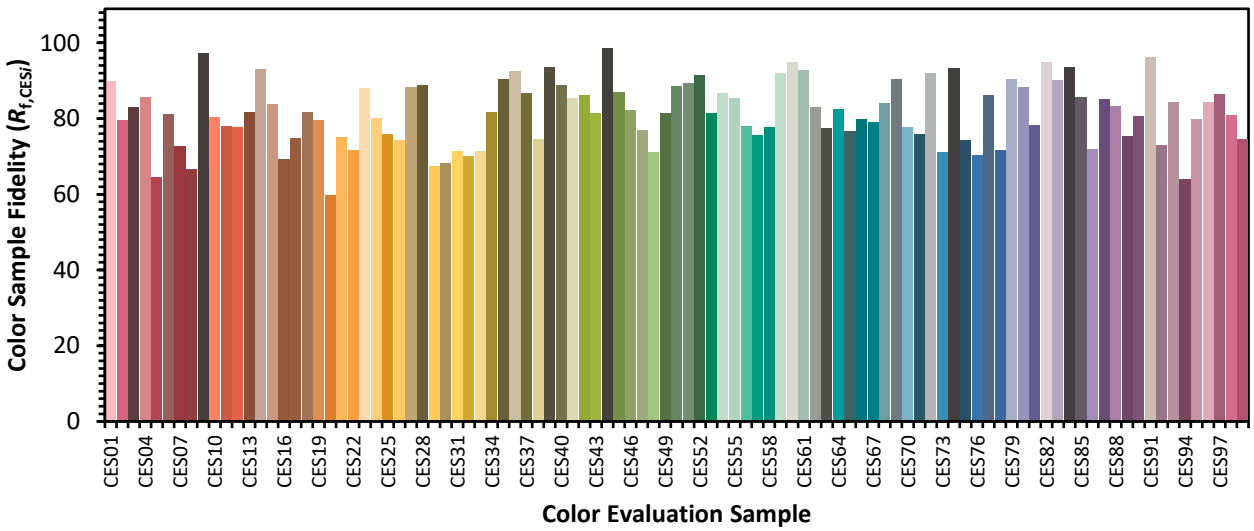
Individual Sample Fidelity Index ($R_{f,i}$)

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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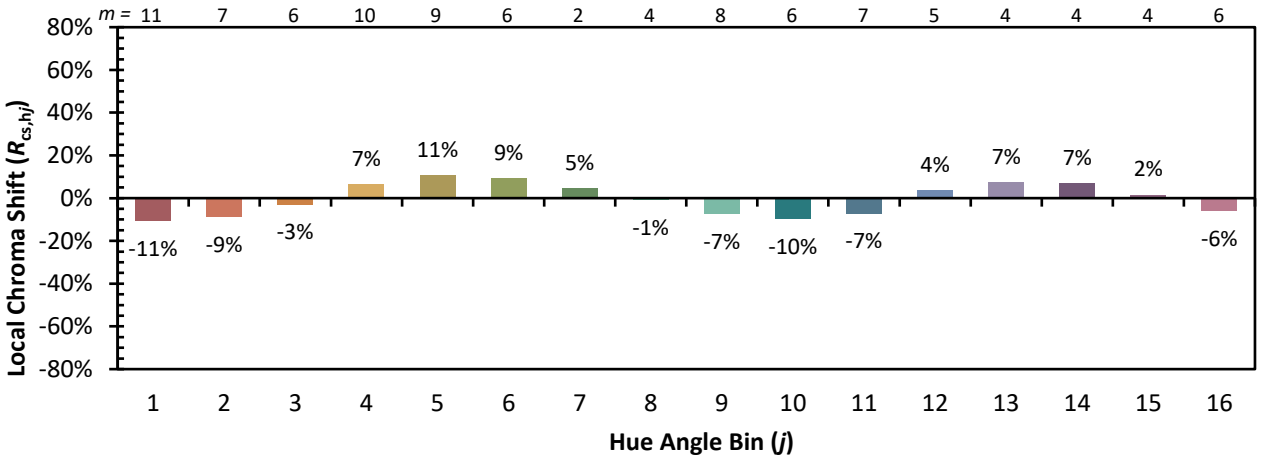
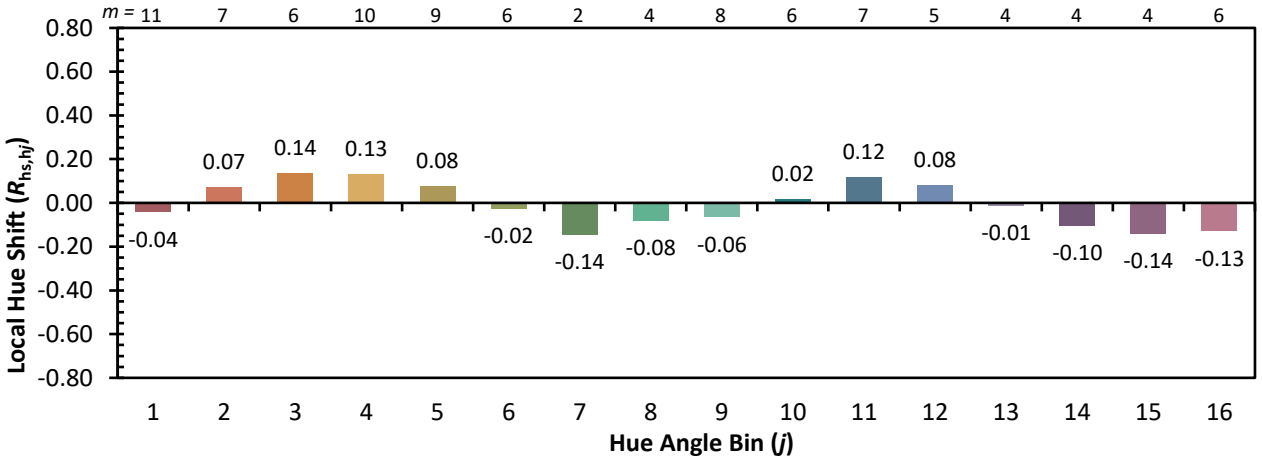
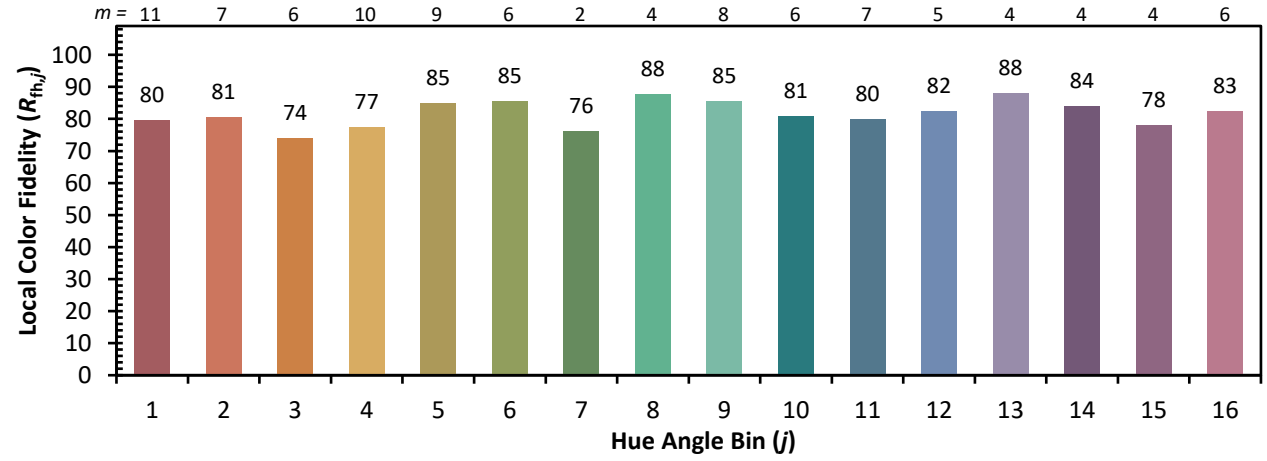
Color Rendition by Hue-Angle Bin







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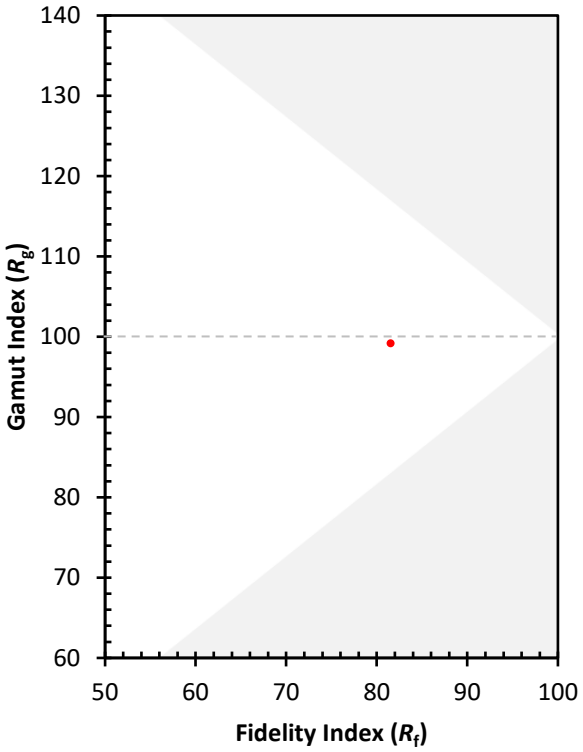
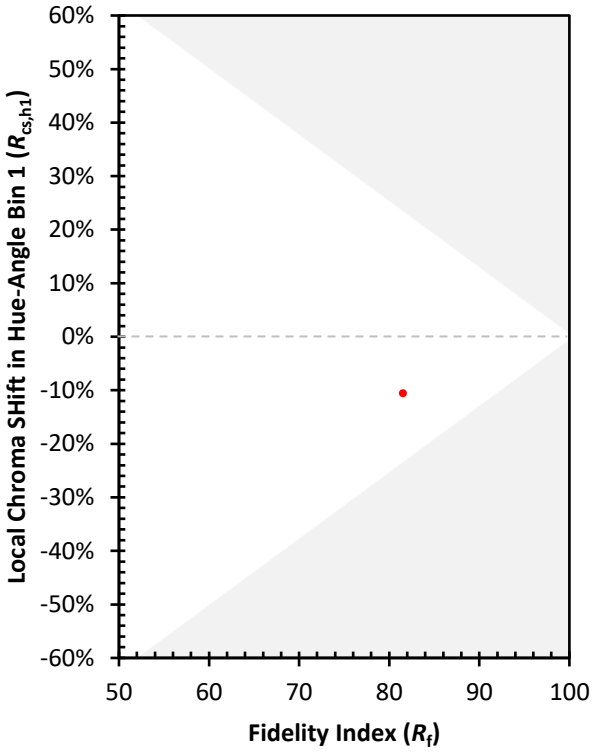
Measure Comparisons





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