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: P639976

Luminaire Tested: GWS-SA5C-830-U-T2-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:	P639976
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5C-830-U-T2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18767.9 lumens
Efficiency:	N/A
Efficacy:	119.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B3 - U0 - G3

Input Watts (W):	157.5
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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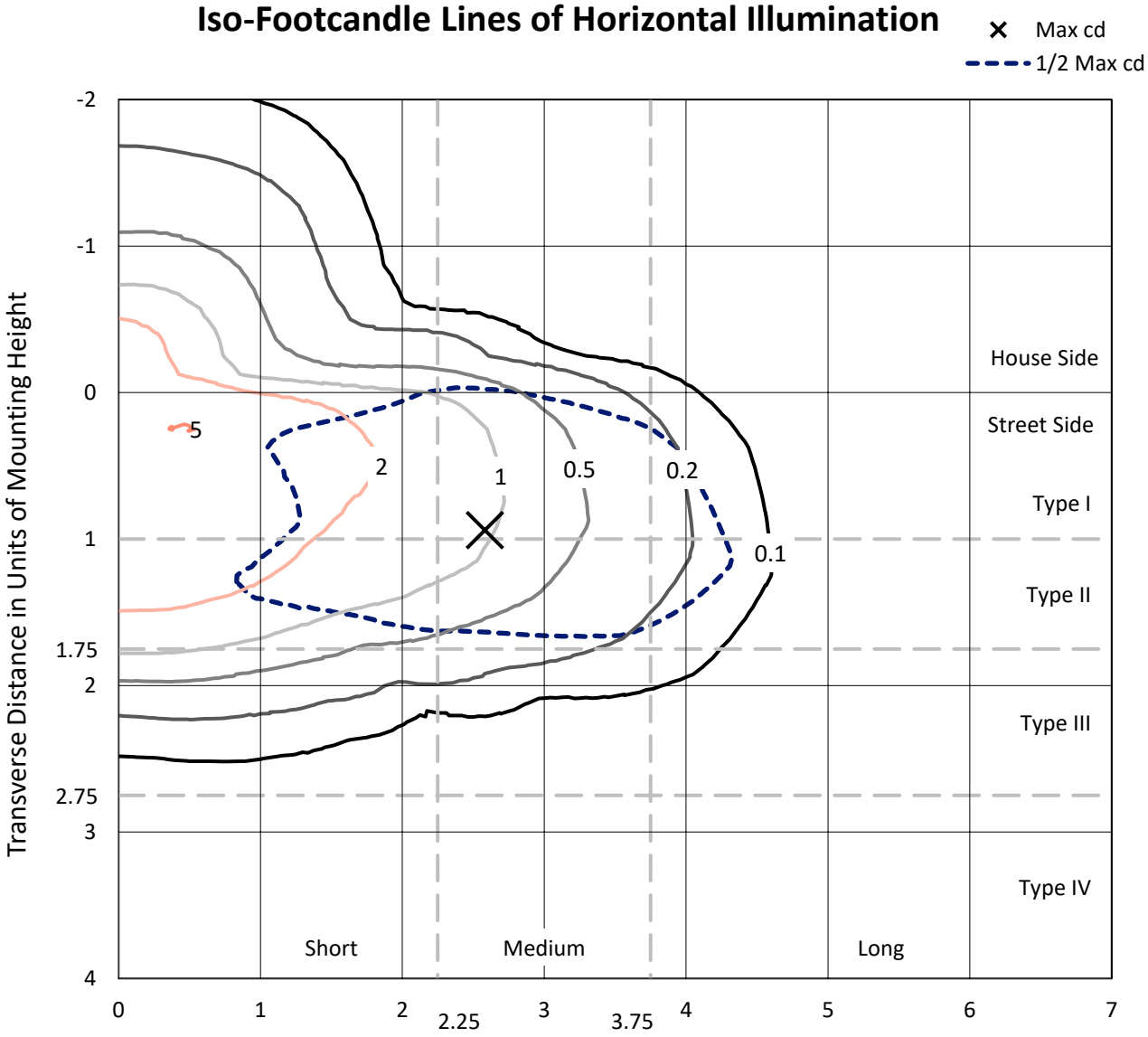
Scaled Data Report

REPORT NUMBER: P639976
CATALOG NUMBER: GWS-SA5C-830-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type II - Medium - N/A

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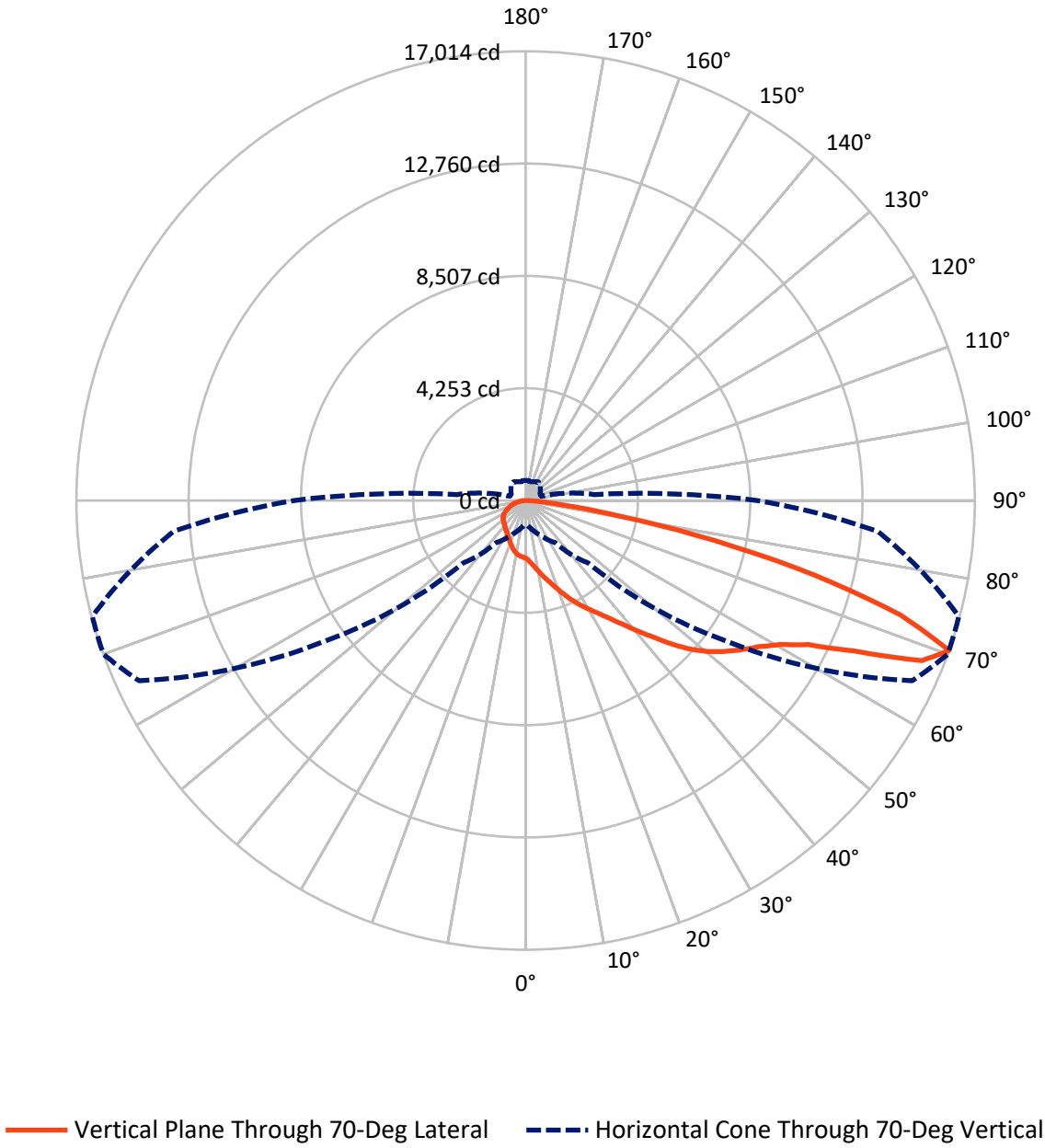
Luminous Intensity Polar Plot



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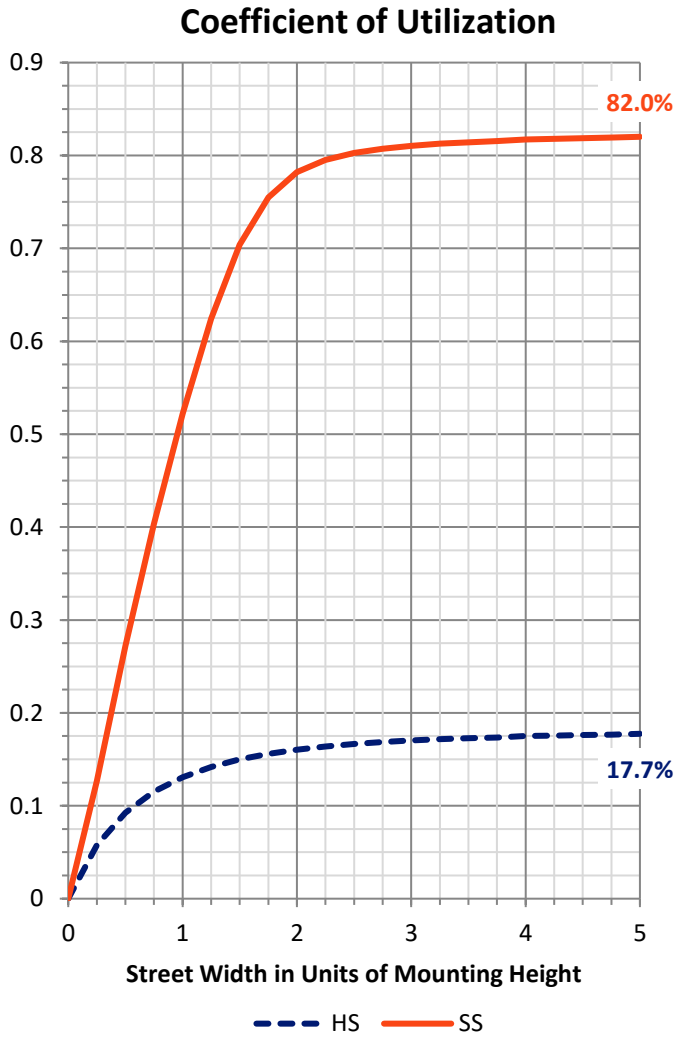
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3363.2	0.0	3363.2
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	15404.6	0.0	15404.6
	% Fixture	82.1	0.0	82.1
Total	Lumens	18767.9	0.0	18767.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	1.2
10°-20°	723.7	3.9
20°-30°	1282.0	6.8
30°-40°	1929.4	10.3
40°-50°	2919.0	15.6
50°-60°	4181.6	22.3
60°-70°	4622.3	24.6
70°-80°	2608.5	13.9
80°-90°	279.0	1.5
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°	18767.9	100.0
0°-180°	18767.9	100.0



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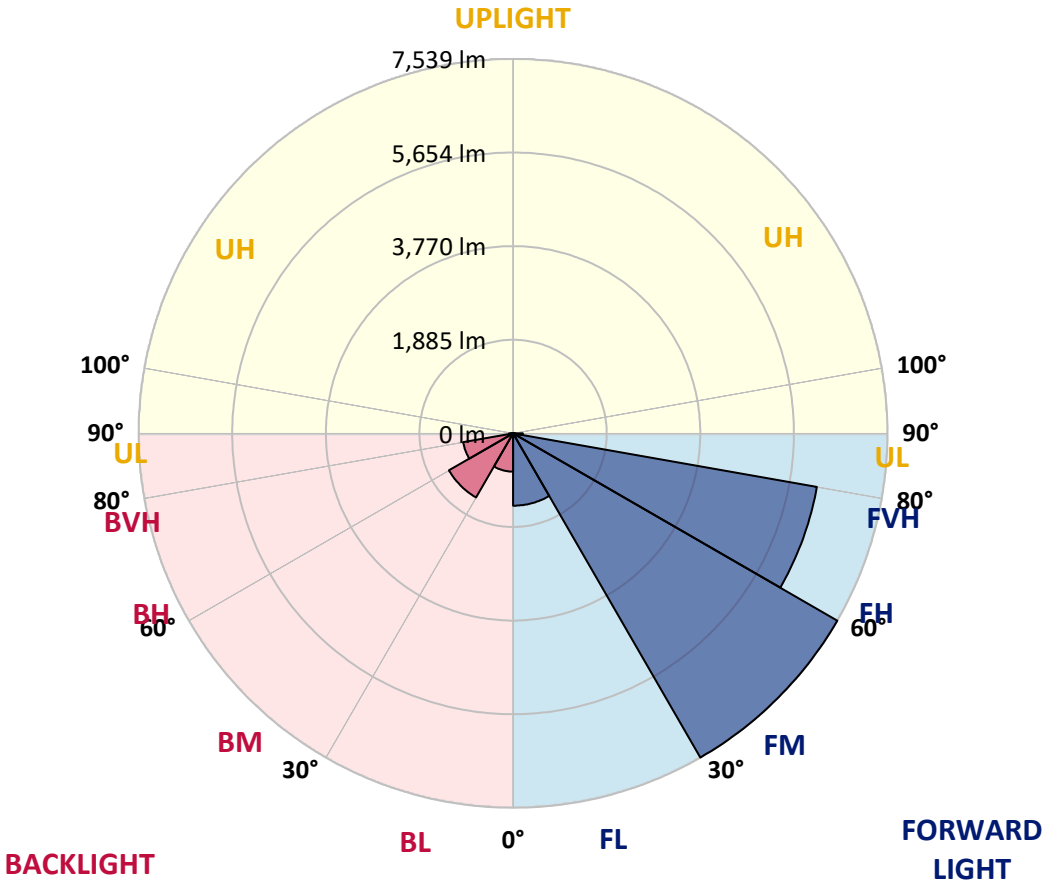
CATALOG NUMBER: GWS-SA5C-830-U-T2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1457.0	7.8			
FM	(30°-60°)	7539.0	40.2			
FH	(60°-80°)	6211.4	33.1			G3/7500
FVH	(80°-90°)	197.2	1.1			G2/225
BL	(0°-30°)	771.1	4.1	B2/1000		
BM	(30°-60°)	1490.9	7.9	B2/2500		
BH	(60°-80°)	1019.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	81.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Medium



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Scaled Data Report

REPORT NUMBER: P639976
CATALOG NUMBER: GWS-SA5C-830-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2188.7	2188.7	2188.7	2188.7	2188.7	2188.7	2188.7	2188.7	2188.7	2188.7	2188.7
2.5°	2424.7	2420.6	2423.3	2420.6	2405.7	2369.1	2339.3	2301.3	2275.5	2260.6	2225.3
5°	2709.5	2705.4	2695.9	2682.3	2655.2	2605.0	2530.5	2447.7	2397.6	2359.6	2285.0
7.5°	2914.2	2914.2	2912.9	2896.6	2877.6	2824.7	2736.6	2628.1	2554.9	2489.8	2367.7
10°	3018.7	3025.4	3034.9	3058.0	3053.9	3025.4	2942.7	2826.1	2733.9	2657.9	2476.2
12.5°	3075.6	3079.7	3095.9	3143.4	3192.2	3199.0	3150.2	3028.1	2927.8	2826.1	2596.9
15°	3148.8	3150.2	3171.9	3228.8	3300.7	3372.6	3360.4	3238.3	3135.3	3022.7	2731.2
17.5°	3205.8	3215.3	3254.6	3321.1	3410.6	3509.6	3569.2	3493.3	3365.8	3237.0	2877.6
20°	3226.1	3232.9	3284.4	3386.2	3508.2	3647.9	3780.8	3760.4	3631.6	3479.7	3043.1
22.5°	3299.4	3299.4	3337.3	3422.8	3566.5	3769.9	3985.5	4038.4	3924.5	3746.9	3220.7
25°	3460.7	3455.3	3472.9	3508.2	3616.7	3867.6	4187.6	4346.3	4218.8	4019.4	3398.4
27.5°	3681.8	3679.1	3677.7	3683.1	3719.7	3953.0	4358.5	4633.8	4506.3	4281.2	3557.0
30°	3921.8	3913.7	3931.3	3915.0	3906.9	4054.7	4503.6	4891.4	4792.4	4540.2	3688.6
32.5°	4248.6	4233.7	4229.6	4176.8	4144.2	4213.4	4620.2	5184.3	5105.7	4819.5	3836.4
35°	4679.9	4666.3	4597.1	4513.1	4416.8	4449.3	4765.3	5470.5	5475.9	5169.4	4030.3
37.5°	5115.2	5117.9	5063.6	4865.6	4766.6	4747.7	4986.3	5819.0	5935.6	5587.1	4281.2
40°	5477.2	5493.5	5493.5	5284.7	5136.9	5119.2	5296.9	6232.6	6464.5	6099.7	4598.5
42.5°	5752.5	5767.4	5814.9	5664.4	5508.4	5569.5	5673.9	6647.5	7063.9	6733.0	4999.9
45°	6054.9	6067.1	6092.9	6006.1	5915.3	6078.0	6101.0	7143.9	7750.0	7443.6	5466.4
47.5°	6456.3	6445.5	6448.2	6384.5	6313.9	6577.0	6571.6	7561.5	8413.2	8222.0	5972.2
50°	6955.4	6975.7	6956.7	6830.6	6747.9	6987.9	7019.1	8024.0	8996.3	8992.2	6482.1
52.5°	7435.4	7443.6	7543.9	7549.3	7379.8	7329.7	7411.0	8490.5	9488.5	9697.4	6971.6
55°	7459.8	7491.0	7792.1	8009.1	8283.0	7880.2	7807.0	8935.3	9964.5	10387.6	7480.2
57.5°	6940.5	6990.6	7501.9	7969.7	8731.8	8825.4	8485.0	9510.2	10440.5	11067.0	8068.7
60°	5831.2	5935.6	6629.9	7345.9	8529.8	9504.8	9872.3	10291.4	11065.7	11761.3	8783.4
62.5°	3723.8	3764.5	4738.2	5937.0	7619.9	9438.4	11383.0	11667.8	12017.7	12665.9	9884.5
65°	1864.6	1994.8	2565.7	3543.5	5494.9	8316.9	12146.5	14188.7	13760.2	14214.5	11669.1
67.5°	1265.2	1307.3	1596.1	2129.1	3222.1	5892.2	11673.2	16312.4	16186.3	16260.8	13571.7
70°	933.0	960.1	1187.9	1508.0	1948.7	3345.5	9293.3	16152.4	17013.5	16986.4	13372.4
72.5°	680.8	694.3	866.5	1151.3	1444.2	1730.4	5675.2	13048.3	14851.9	15634.3	11694.9
75°	495.0	511.2	602.1	861.1	1122.8	1079.4	2801.7	9424.8	11326.0	12831.3	9527.9
77.5°	368.9	389.2	431.2	539.7	786.5	773.0	1211.0	6120.0	7325.6	8380.6	5787.8
80°	265.8	269.9	294.3	345.8	499.0	452.9	576.3	3190.9	3658.7	4008.6	2268.7
82.5°	161.4	165.4	196.6	212.9	309.2	284.8	299.7	1033.3	1480.8	1571.7	847.6
85°	47.5	50.2	89.5	97.6	128.8	122.0	120.7	420.4	501.8	641.4	333.6
87.5°	0.0	0.0	0.0	0.0	1.4	8.1	14.9	74.6	112.6	156.0	81.4
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: P639976
CATALOG NUMBER: GWS-SA5C-830-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2188.7	2188.7	2188.7	2188.7	2188.7	2188.7	2188.7	2188.7	2188.7	2188.7	2188.7
2.5°	2211.8	2180.6	2164.3	2135.8	2115.5	2095.2	2074.8	2055.8	2047.7	2035.5	2038.2
5°	2251.1	2202.3	2153.5	2097.9	2050.4	2011.1	1975.8	1944.6	1931.1	1918.9	1924.3
7.5°	2310.8	2237.5	2144.0	2042.3	1967.7	1913.4	1876.8	1855.1	1848.3	1838.9	1838.9
10°	2386.7	2276.9	2112.8	1967.7	1878.2	1834.8	1818.5	1817.2	1823.9	1825.3	1822.6
12.5°	2470.8	2314.8	2066.7	1879.5	1803.6	1790.0	1802.2	1825.3	1848.3	1860.6	1857.8
15°	2557.6	2339.3	1988.0	1795.5	1749.4	1767.0	1806.3	1852.4	1897.2	1920.2	1918.9
17.5°	2638.9	2344.7	1886.3	1714.1	1701.9	1746.6	1814.4	1886.3	1947.3	1979.9	1981.2
20°	2729.8	2335.2	1781.9	1640.9	1654.4	1727.7	1817.2	1903.9	1975.8	2008.4	2016.5
22.5°	2812.5	2302.6	1680.2	1571.7	1613.7	1704.6	1795.5	1876.8	1940.6	1971.8	1982.6
25°	2887.1	2240.3	1569.0	1513.4	1582.6	1672.1	1741.2	1798.2	1842.9	1861.9	1876.8
27.5°	2927.8	2146.7	1484.9	1467.3	1552.7	1625.9	1663.9	1681.5	1696.5	1691.0	1701.9
30°	2935.9	2030.1	1411.7	1430.7	1508.0	1562.2	1570.3	1552.7	1527.0	1484.9	1494.4
32.5°	2927.8	1895.8	1350.7	1391.3	1457.8	1490.3	1479.5	1433.4	1371.0	1305.9	1310.0
35°	2930.5	1760.2	1300.5	1348.0	1399.5	1417.1	1390.0	1326.3	1259.8	1200.1	1197.4
37.5°	2960.3	1646.3	1258.4	1305.9	1342.5	1345.2	1315.4	1249.0	1215.1	1170.3	1164.9
40°	3043.1	1562.2	1220.5	1263.9	1286.9	1285.6	1251.7	1204.2	1227.3	1212.3	1208.3
42.5°	3178.7	1510.7	1189.3	1219.1	1235.4	1238.1	1211.0	1181.2	1231.3	1212.3	1205.6
45°	3397.0	1508.0	1167.6	1174.4	1200.1	1219.1	1200.1	1166.2	1185.2	1093.0	1075.4
47.5°	3656.0	1554.1	1151.3	1135.0	1179.8	1213.7	1183.9	1129.6	1090.3	1006.2	994.0
50°	3967.9	1647.6	1136.4	1093.0	1150.0	1193.4	1163.5	1088.9	1029.3	984.5	977.7
52.5°	4338.1	1771.1	1117.4	1045.5	1105.2	1182.5	1163.5	1084.9	1006.2	965.5	958.8
55°	4726.0	1913.4	1095.7	988.6	1055.0	1185.2	1173.0	1056.4	988.6	966.9	961.5
57.5°	5207.4	2084.3	1056.4	922.1	1010.3	1160.8	1135.0	1040.1	976.4	958.8	953.3
60°	5832.5	2337.9	981.8	854.3	958.8	1117.4	1101.1	1013.0	943.8	928.9	924.9
62.5°	6822.5	2767.8	890.9	789.2	897.7	1026.6	1051.0	961.5	903.2	901.8	900.4
65°	8436.2	3284.4	783.8	730.9	834.0	952.0	984.5	908.6	861.1	876.0	874.7
67.5°	9567.2	3329.2	695.7	669.9	759.4	870.6	918.1	854.3	802.8	831.3	829.9
70°	*8763.0*	*2596.9*	*619.7*	*606.2*	*679.4*	*782.5*	*846.2*	*786.5*	*735.0*	*762.1*	*756.7*
72.5°	7390.7	1990.7	547.9	539.7	598.0	690.2	754.0	718.7	664.5	664.5	652.3
75°	5939.7	1642.2	471.9	467.9	507.2	596.7	668.6	608.9	558.7	556.0	547.9
77.5°	3406.5	1076.7	396.0	393.3	405.5	499.0	519.4	507.2	469.2	451.6	446.2
80°	1357.4	560.1	311.9	294.3	306.5	366.1	409.5	389.2	356.7	335.0	322.7
82.5°	526.2	280.7	219.7	192.6	210.2	264.4	297.0	290.2	268.5	219.7	206.1
85°	214.3	137.0	131.5	111.2	122.0	142.4	170.9	147.8	122.0	86.8	82.7
87.5°	57.0	50.2	48.8	29.8	23.1	6.8	1.4	0.0	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

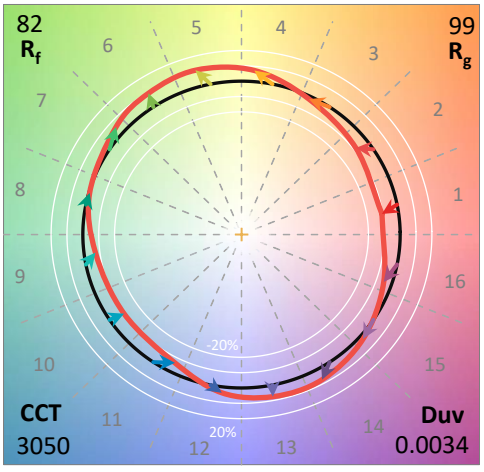
Test Information

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

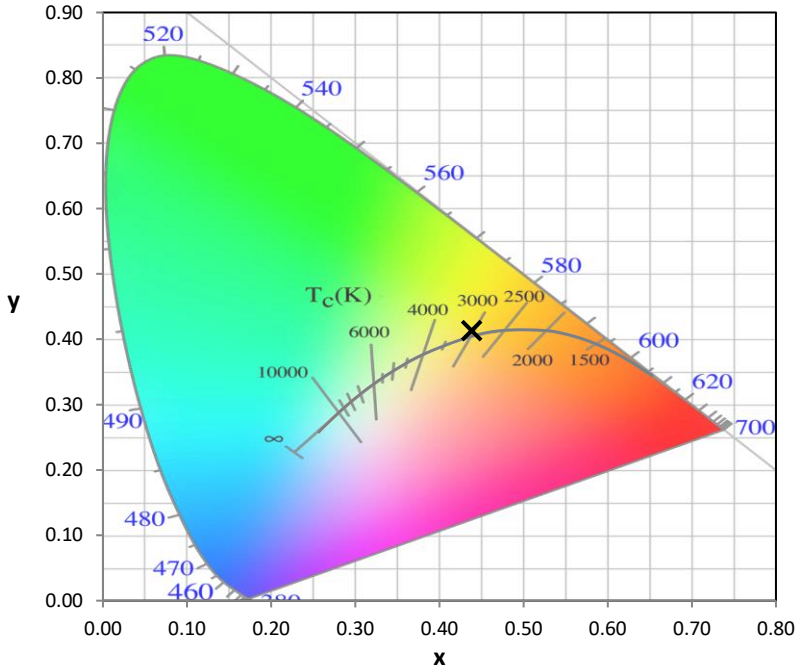
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

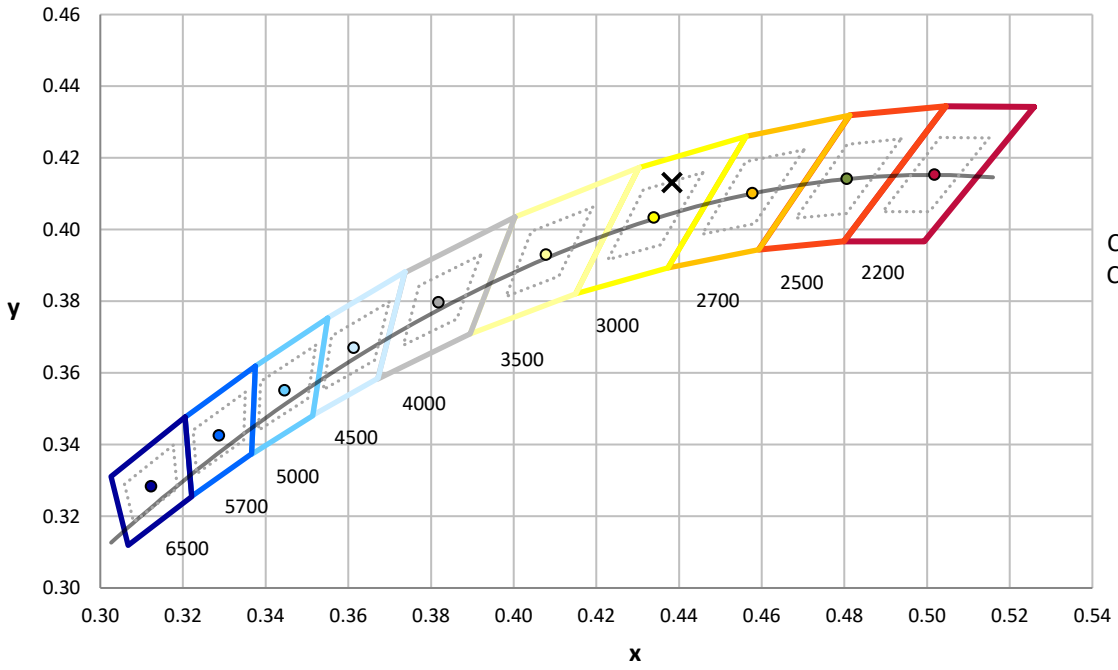
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

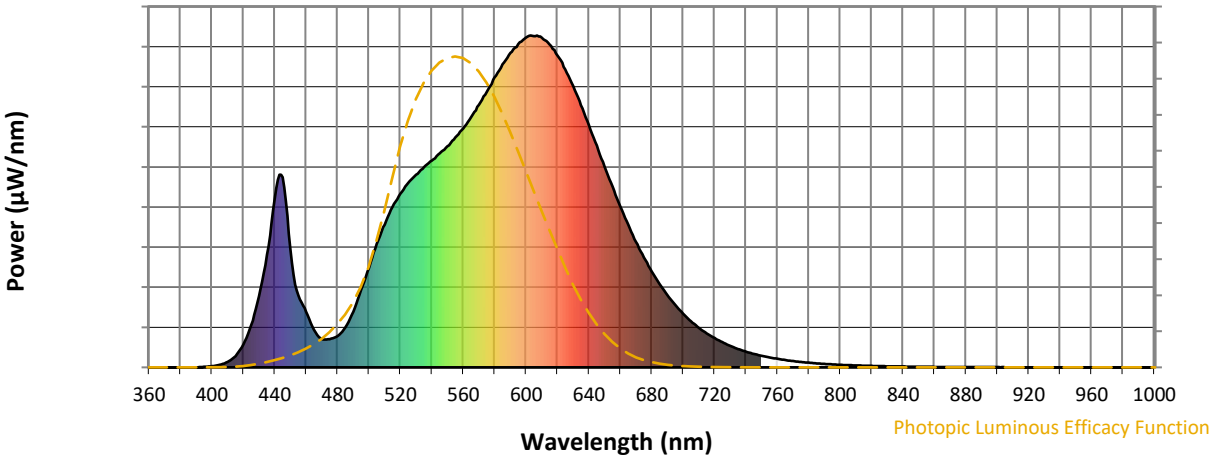


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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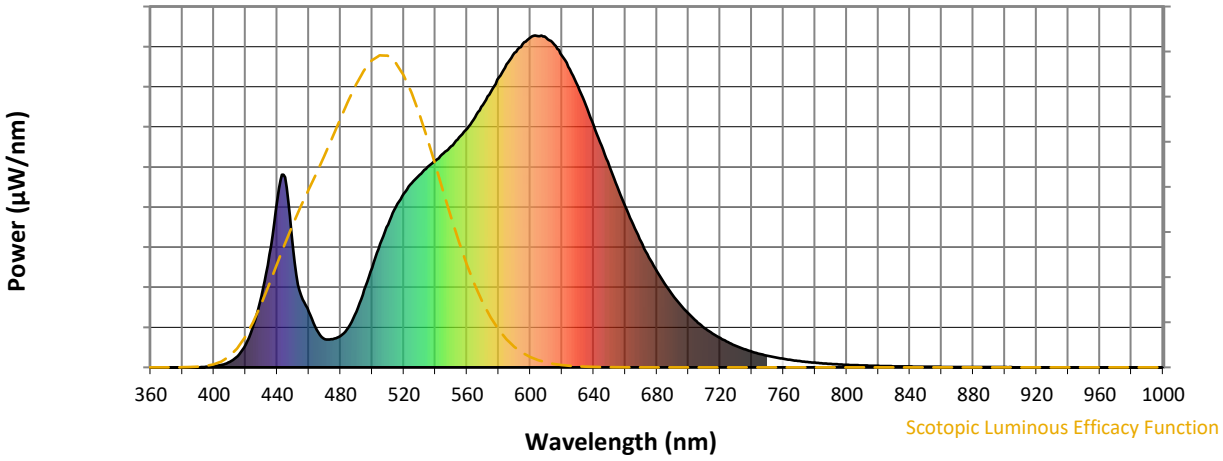
Scotopic Flux vs. Wavelength



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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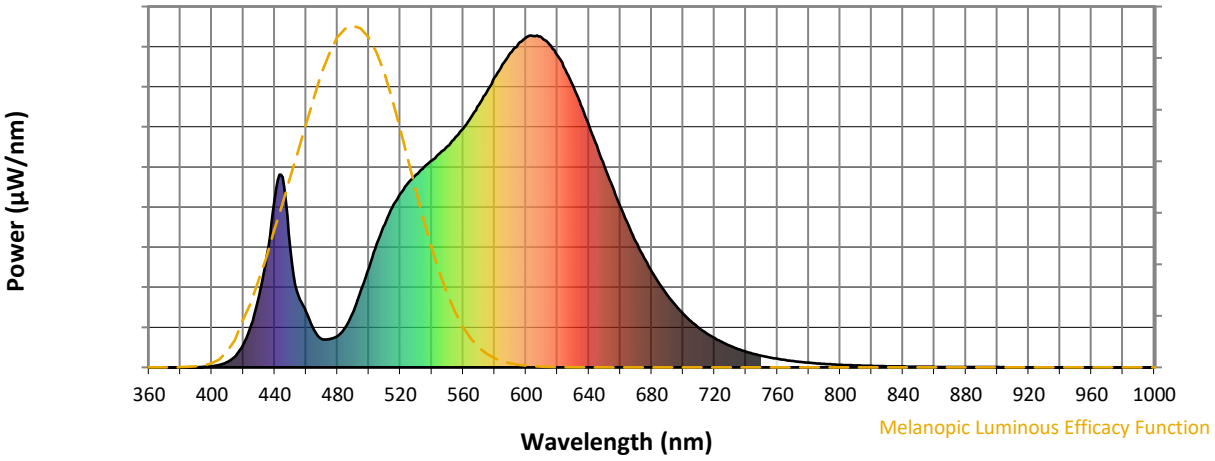
Melanopic Flux vs. Wavelength



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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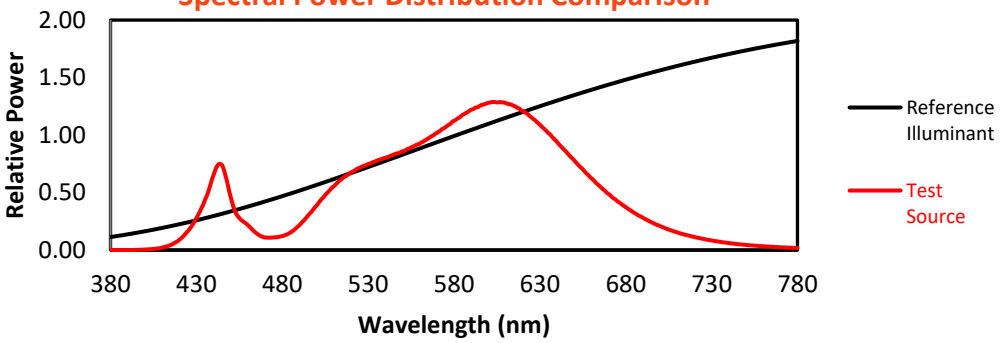
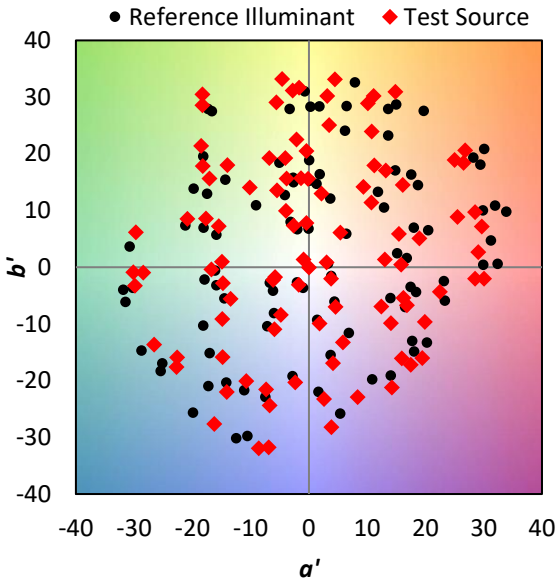
Summary

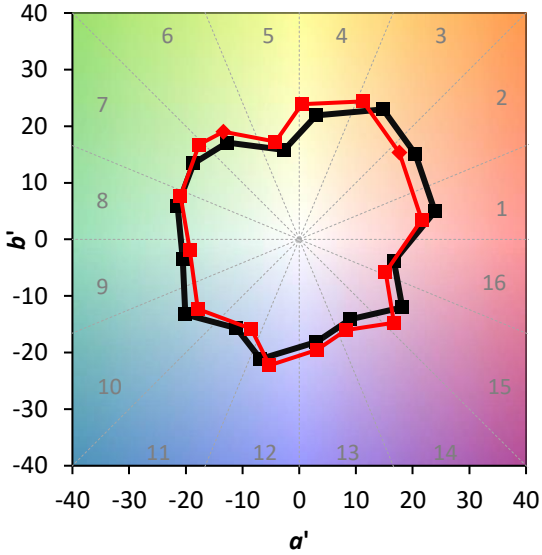
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

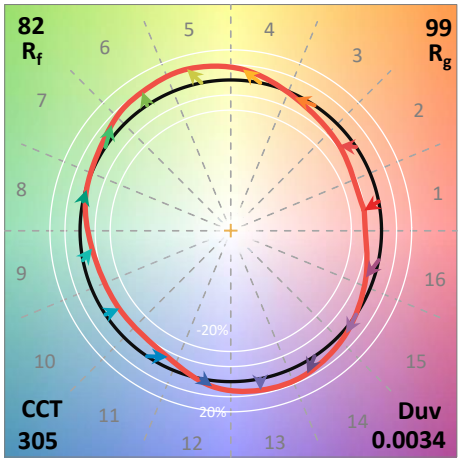
Spectral Power Distribution Comparison

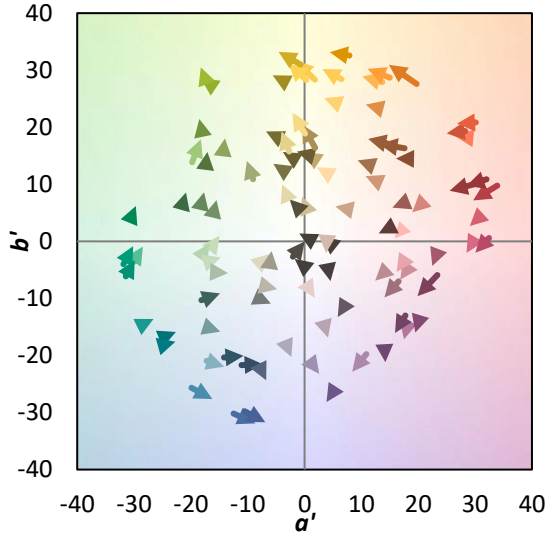


Color Vector Graphics









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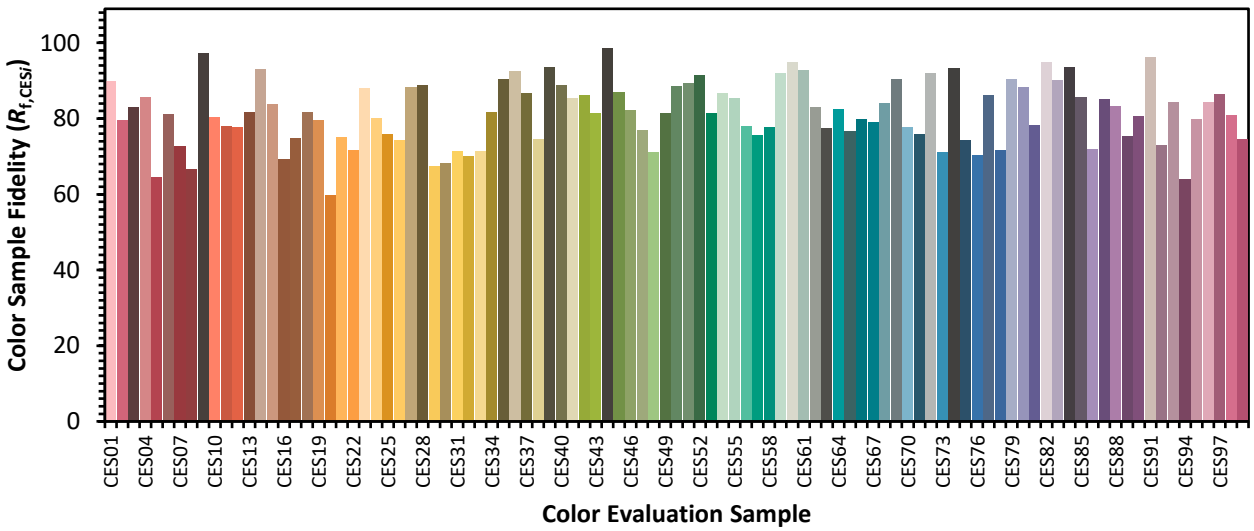
Individual Sample Fidelity Index ($R_{f,i}$)

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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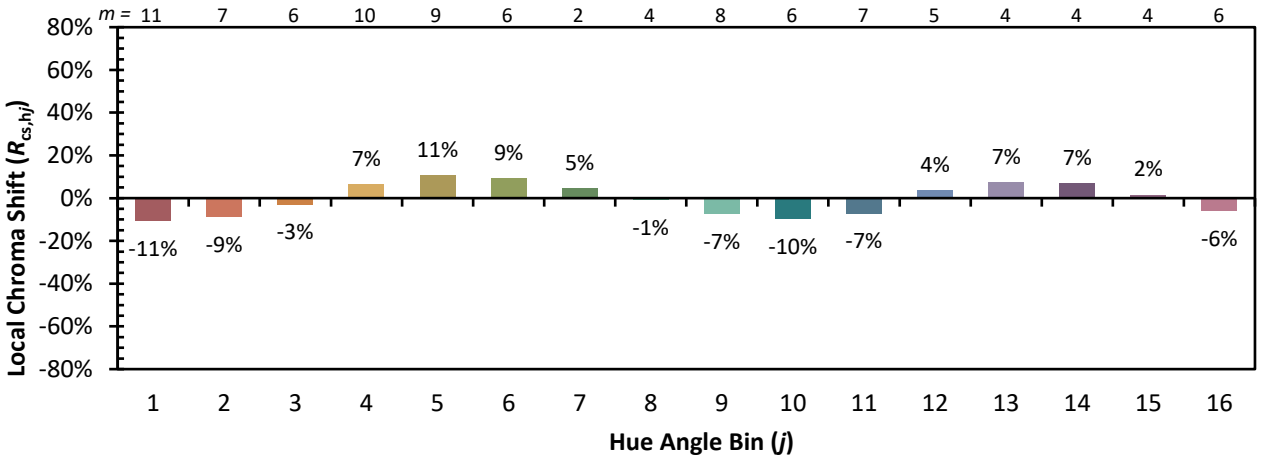
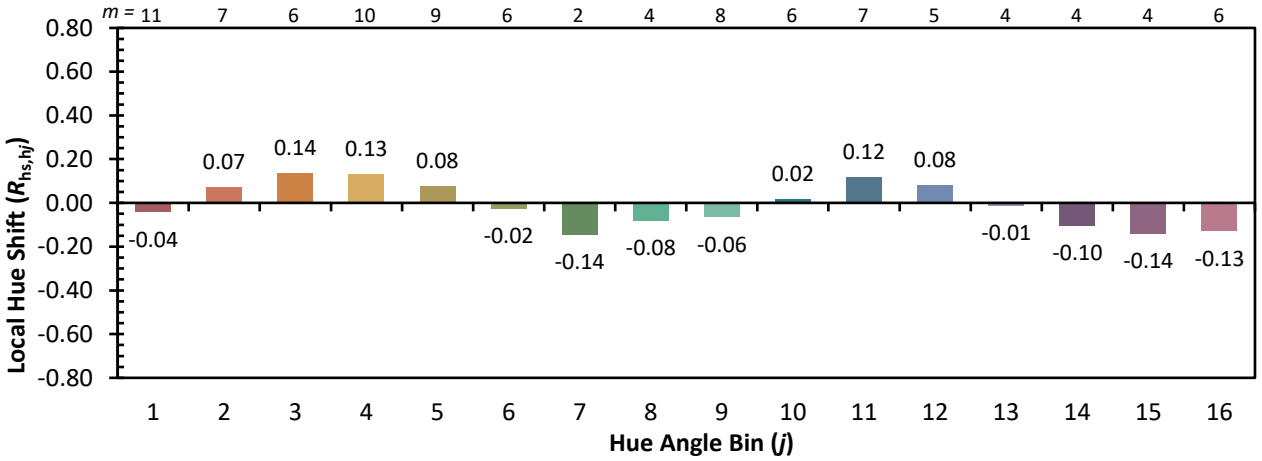
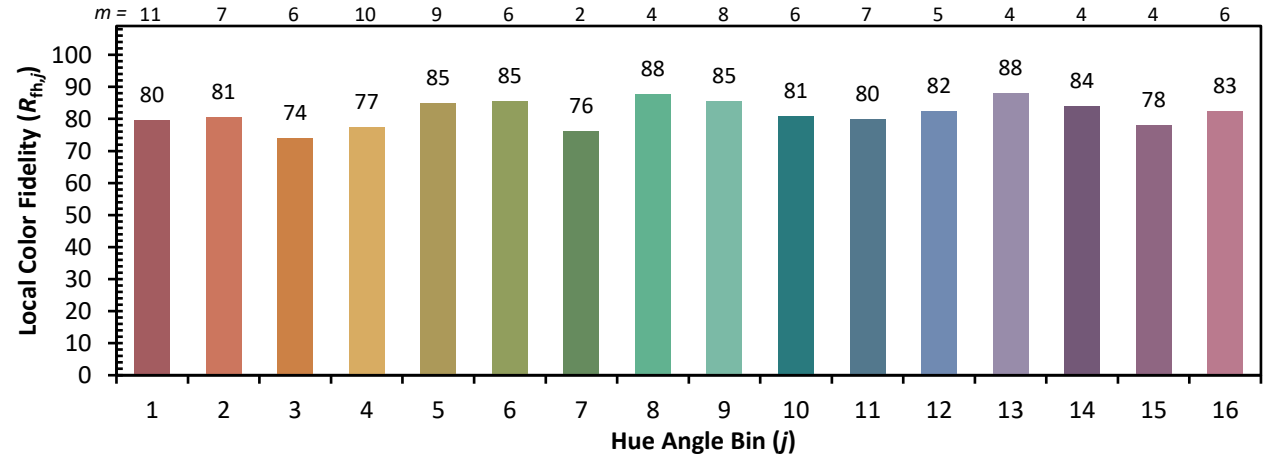
Color Rendition by Hue-Angle Bin







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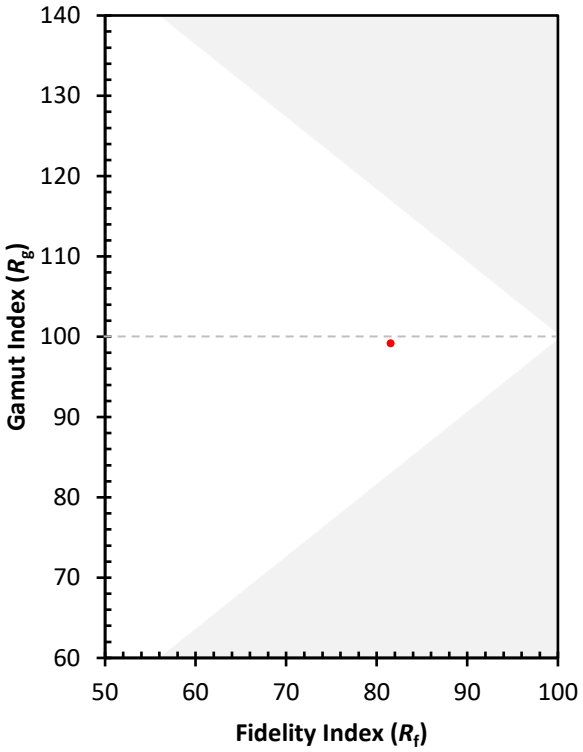
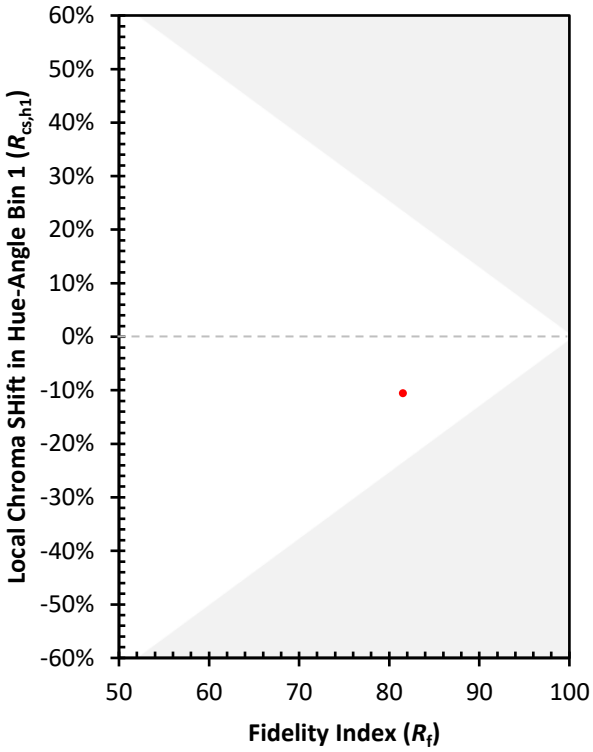
Measure Comparisons





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