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: P639974

Luminaire Tested: GWS-SA5C-830-U-T2-W-GRSWH

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:	P639974
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
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-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSLLED GLARE SHIELD, WH
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15771 lumens
Efficiency:	N/A
Efficacy:	100.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

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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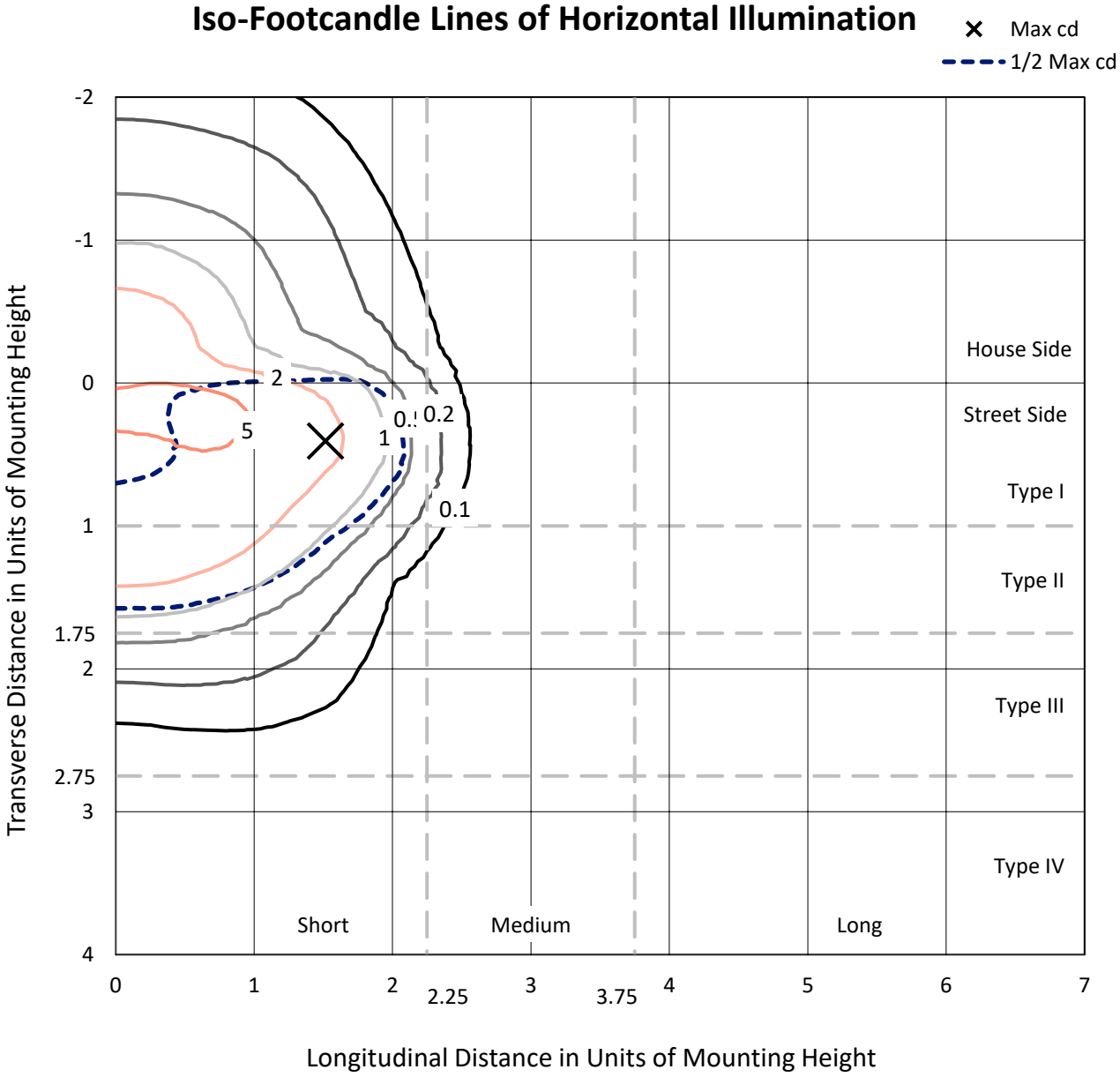
Scaled Data Report

REPORT NUMBER: P639974
CATALOG NUMBER: GWS-SA5C-830-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type II - Short - N/A

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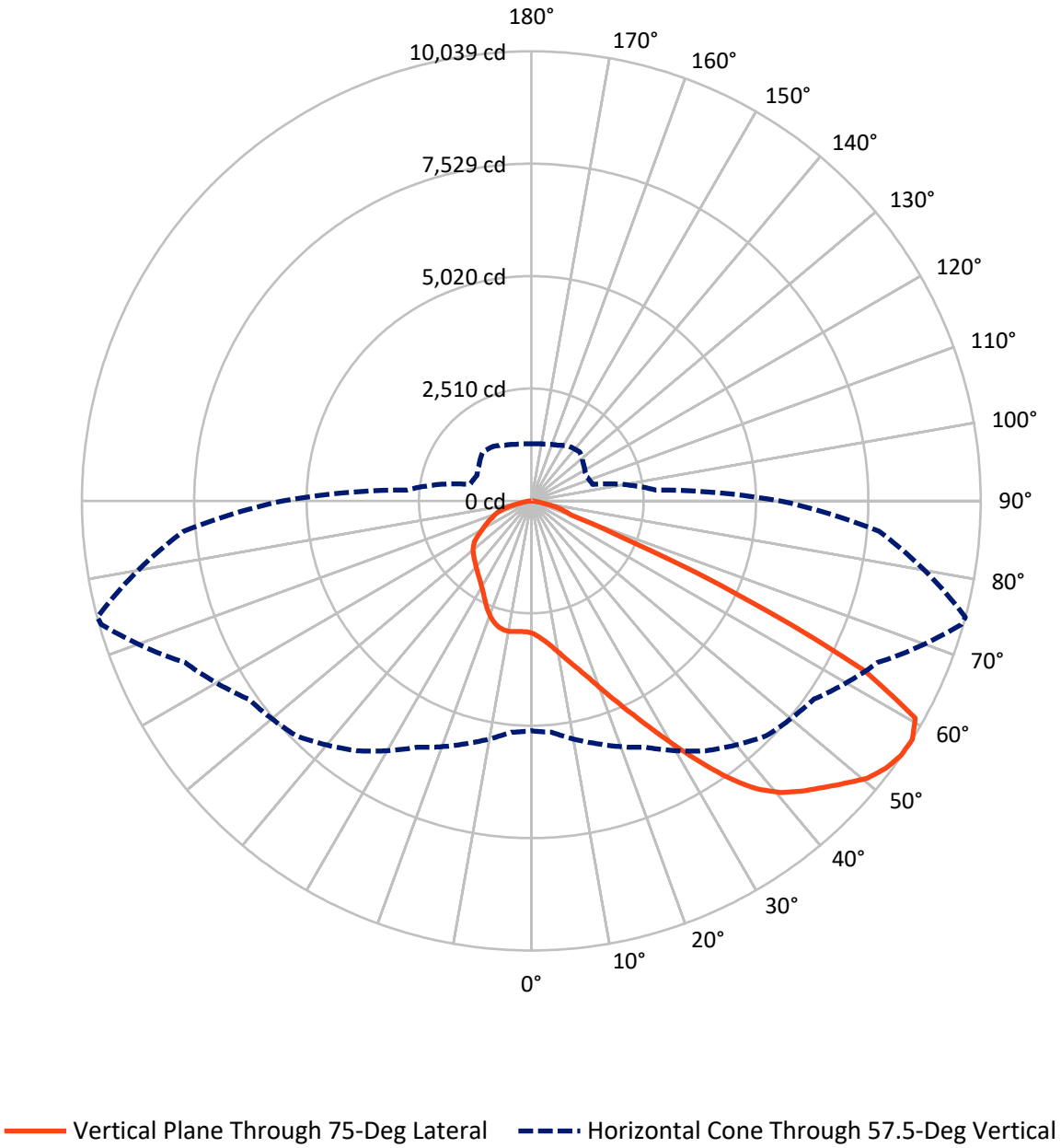
Luminous Intensity Polar Plot



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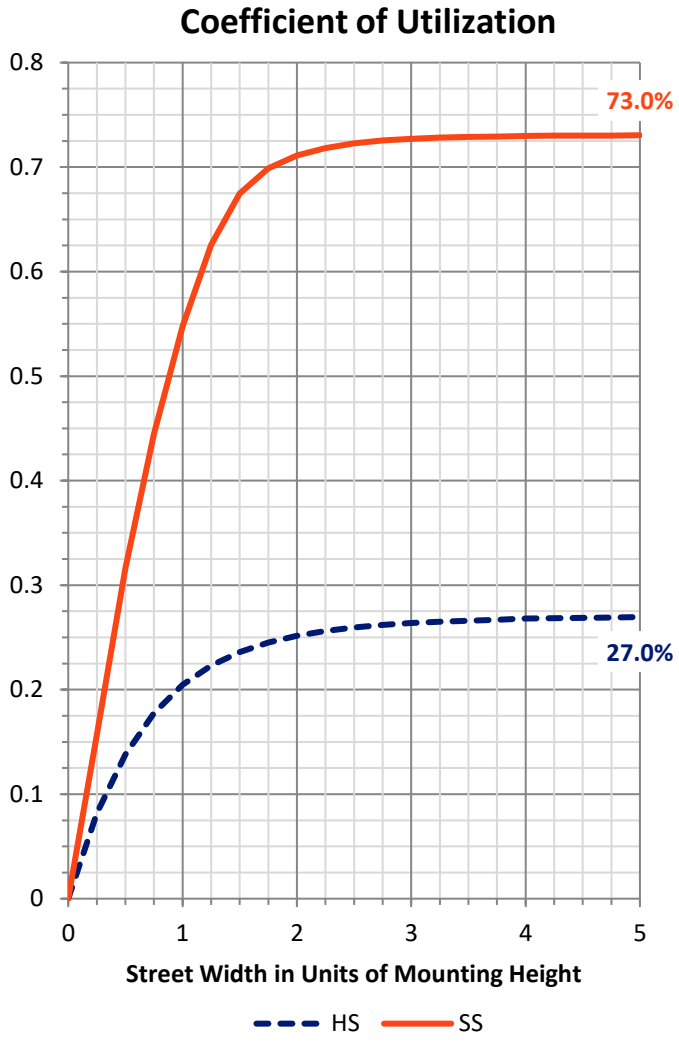
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4266.4	0.0	4266.4
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	11504.6	0.0	11504.6
	% Fixture	72.9	0.0	72.9
Total	Lumens	15771.0	0.0	15771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.6	1.9
10°-20°	941.0	6.0
20°-30°	1668.8	10.6
30°-40°	2554.7	16.2
40°-50°	3557.2	22.6
50°-60°	4075.9	25.8
60°-70°	2094.3	13.3
70°-80°	527.2	3.3
80°-90°	56.4	0.4
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°	15771.0	100.0
0°-180°	15771.0	100.0



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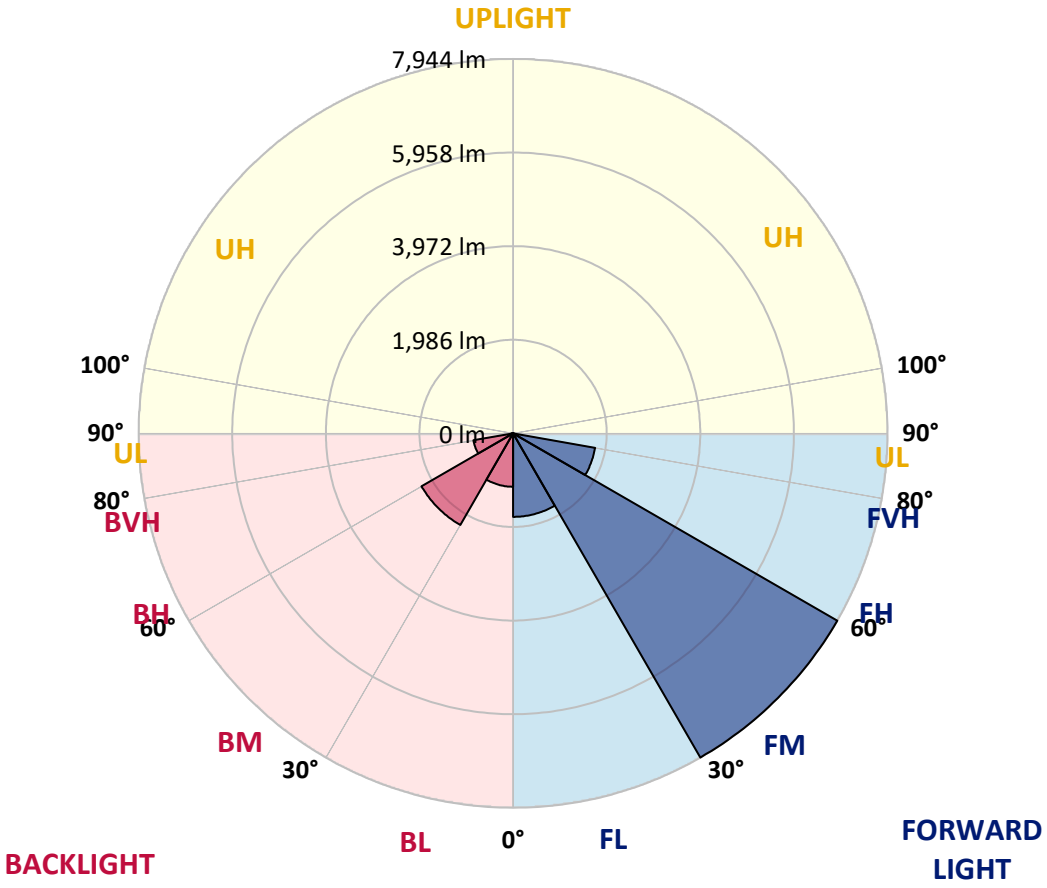
REPORT NUMBER: P639974
CATALOG NUMBER: GWS-SA5C-830-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1772.0	11.2			
FM	(30°-60°)	7944.0	50.4			
FH	(60°-80°)	1767.8	11.2			G1/1800
FVH	(80°-90°)	20.9	0.1			G1/100
BL	(0°-30°)	1133.4	7.2	B3/2500		
BM	(30°-60°)	2243.7	14.2	B2/2500		
BH	(60°-80°)	853.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	35.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
Type II Short



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REPORT NUMBER: P639974
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	*2953.5*	2953.5
2.5°	3173.2	3181.4	3173.2	3186.8	3159.7	3147.4	3117.6	3072.9	3037.6	*3032.2*	2992.9
5°	3420.0	3437.6	3426.8	3421.4	3384.8	3357.6	3312.9	3223.4	3150.2	*3139.3*	3062.0
7.5°	3578.7	3590.9	3590.9	3595.0	3581.4	3550.2	3502.7	3397.0	3293.9	*3277.6*	3161.0
10°	3631.6	3641.1	3658.7	3692.6	3719.7	3729.2	3698.0	3596.3	3470.2	*3453.9*	3291.2
12.5°	3643.8	3654.6	3681.7	3744.1	3818.7	3886.5	3891.9	3817.3	3676.3	*3658.7*	3441.7
15°	3666.8	3677.7	3714.3	3791.6	3901.4	4031.6	4111.6	4060.1	3904.1	*3885.2*	3612.6
17.5°	3664.1	3676.3	3730.6	3833.6	3981.4	4169.9	4324.5	4346.2	4184.8	*4152.3*	3806.5
20°	3657.3	3668.2	3726.5	3852.6	4035.7	4294.7	4574.0	4686.6	4513.0	*4483.2*	4033.0
22.5°	3711.6	3723.8	3768.5	3872.9	4064.2	4391.0	4804.6	5075.8	4902.2	*4860.2*	4293.3
25°	3833.6	3851.3	3878.4	3950.2	4115.7	4476.4	5040.5	5516.5	5338.9	*5288.7*	4576.8
27.5°	4022.1	4043.8	4081.8	4115.7	4231.0	4584.9	5275.1	6010.1	5832.5	*5779.6*	4876.4
30°	4252.6	4281.1	4329.9	4353.0	4431.7	4744.9	5530.1	6518.6	6415.6	*6342.4*	5214.1
32.5°	4571.3	4610.7	4656.8	4663.5	4711.0	4987.6	5782.3	7023.1	7021.8	*6970.2*	5597.9
35°	4986.3	5028.3	5037.8	5047.3	5070.4	5321.2	6087.4	7482.8	7660.5	*7600.8*	6015.5
37.5°	5439.2	5500.2	5515.2	5473.1	5505.7	5722.6	6430.5	7851.7	8216.5	*8152.7*	6419.7
40°	5923.3	5947.7	5988.4	5922.0	5962.7	6182.3	6766.8	8087.6	8631.4	*8563.6*	6738.3
42.5°	6270.5	6315.2	6376.3	6351.9	6374.9	6575.6	7002.8	8201.5	8927.0	*8859.2*	6967.5
45°	6647.5	6661.0	6700.4	6694.9	6708.5	6895.6	7172.3	8251.7	9191.5	*9130.4*	7162.8
47.5°	6975.6	6996.0	7021.8	6991.9	6962.1	7084.1	7310.6	8295.1	9496.6	*9423.4*	7367.6
50°	7291.6	7309.2	7340.4	7253.6	7142.4	7173.6	7378.4	8354.8	9782.7	*9731.2*	7528.9
52.5°	7349.9	7368.9	7515.4	7533.0	7390.6	7280.8	7497.7	8486.3	9950.9	*9918.3*	7587.2
55°	6616.3	6650.2	6941.7	7276.7	7627.9	7592.7	7688.9	8555.5	10017.3	*10025.5*	7691.7
57.5°	*5135.5*	*5184.3*	*5610.1*	*6069.8*	*6808.8*	*7420.4*	*7713.4*	*8537.8*	*9994.3*	*10039.0*	*7798.8*
60°	3368.5	3397.0	3901.4	4416.7	5182.9	6029.1	6903.8	8220.5	9789.5	*9853.2*	7771.7
62.5°	2034.1	2066.7	2472.1	2862.7	3314.2	3879.7	4682.5	6606.8	8205.6	*8348.0*	6224.4
65°	1419.8	1463.2	1818.5	2139.9	2295.8	2179.2	2371.8	3689.9	5112.4	*5172.1*	3803.8
67.5°	1029.3	1059.1	1350.6	1733.1	1905.3	1539.1	1173.0	1634.1	2226.7	*2248.4*	1569.0
70°	674.0	707.9	972.3	1319.5	1555.4	1247.6	877.4	884.2	937.0	*947.9*	911.3
72.5°	370.2	390.5	600.7	876.0	919.4	745.8	684.8	735.0	771.6	*771.6*	781.1
75°	191.2	208.8	245.4	288.8	348.5	408.2	493.6	568.2	607.5	*610.2*	606.2
77.5°	97.6	104.4	131.5	142.4	155.9	181.7	236.0	302.4	337.7	*351.2*	348.5
80°	46.1	48.8	55.6	65.1	80.0	101.7	127.5	151.9	173.6	*176.3*	191.2
82.5°	24.4	27.1	29.8	35.3	43.4	54.2	74.6	89.5	103.1	*105.8*	118.0
85°	9.5	10.8	12.2	13.6	19.0	23.1	31.2	42.0	51.5	*51.5*	61.0
87.5°	0.0	0.0	0.0	0.0	1.4	2.7	5.4	6.8	9.5	*9.5*	16.3
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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CATALOG NUMBER: GWS-SA5C-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5
2.5°	2983.4	2944.0	2926.4	2897.9	2874.9	2849.1	2828.8	2813.9	2804.4	2798.9	2793.5
5°	3032.2	2972.5	2925.1	2868.1	2828.8	2790.8	2759.6	2737.9	2727.1	2718.9	2713.5
7.5°	3108.1	3028.1	2938.6	2850.5	2781.3	2720.3	2681.0	2657.9	2643.0	2637.6	2633.5
10°	3212.5	3101.3	2953.5	2813.9	2710.8	2644.3	2617.2	2606.4	2607.7	2605.0	2603.7
12.5°	3330.5	3178.6	2949.5	2748.8	2634.9	2595.5	2596.9	2614.5	2634.9	2640.3	2641.6
15°	3458.0	3254.6	2910.1	2664.7	2575.2	2579.3	2614.5	2656.5	2694.5	2709.4	2712.1
17.5°	3596.3	3318.3	2838.3	2572.5	2526.4	2569.8	2634.9	2704.0	2759.6	2784.0	2790.8
20°	3750.9	3372.6	2736.6	2481.6	2480.3	2552.1	2647.1	2737.9	2808.4	2841.0	2846.4
22.5°	3915.0	3406.5	2611.8	2397.5	2432.8	2529.1	2637.6	2732.5	2807.1	2839.6	2846.4
25°	4080.4	3417.3	2474.8	2320.2	2384.0	2492.5	2591.5	2667.4	2737.9	2766.4	2771.8
27.5°	4235.0	3386.1	2344.7	2253.8	2339.2	2438.2	2504.7	2545.4	2594.2	2615.9	2619.9
30°	4392.3	3323.7	2234.8	2200.9	2289.1	2363.6	2393.5	2396.2	2415.2	2415.2	2417.9
32.5°	4551.0	3231.5	2138.5	2149.4	2226.7	2275.5	2279.6	2248.4	2225.3	2187.3	2186.0
35°	4734.1	3138.0	2059.9	2091.1	2153.4	2183.3	2171.1	2111.4	2055.8	1993.4	1990.7
37.5°	4903.6	3041.7	1993.4	2031.4	2070.7	2092.4	2063.9	1992.1	1946.0	1882.2	1872.7
40°	5043.2	2954.9	1929.7	1969.0	1988.0	2007.0	1960.9	1902.6	1909.4	1874.1	1872.7
42.5°	5124.6	2870.8	1870.0	1899.9	1912.1	1925.6	1884.9	1841.5	1878.2	1851.0	1852.4
45°	5184.3	2797.6	1815.8	1826.6	1856.5	1876.8	1838.8	1790.0	1798.2	1693.7	1669.3
47.5°	5252.1	2756.9	1764.3	1753.4	1806.3	1841.5	1783.2	1712.7	1663.9	1560.8	1551.3
50°	5323.9	2742.0	1710.0	1680.2	1743.9	1777.8	1710.0	1621.9	1558.1	1502.5	1497.1
52.5°	5348.4	2740.6	1642.2	1592.0	1655.8	1703.2	1646.3	1556.8	1480.8	1426.6	1423.9
55°	5444.6	2780.0	1555.4	1471.3	1531.0	1628.6	1586.6	1457.8	1396.8	1372.3	1369.6
57.5°	*5557.2*	*2786.7*	*1418.5*	*1339.8*	*1422.5*	*1537.8*	*1484.9*	*1373.7*	*1307.3*	*1277.4*	*1274.7*
60°	5511.1	2619.9	1272.0	1239.5	1330.3	1452.4	1403.5	1307.3	1230.0	1201.5	1198.8
62.5°	4199.8	1849.7	1164.9	1152.7	1231.3	1329.0	1319.5	1219.1	1145.9	1125.5	1122.8
65°	2526.4	1299.1	1061.8	1060.5	1116.0	1209.6	1221.8	1140.5	1063.2	1034.7	1034.7
67.5°	1248.9	994.0	945.2	938.4	973.7	1040.1	1091.6	1025.2	960.1	933.0	928.9
70°	882.8	876.0	859.8	840.8	847.5	874.7	896.4	840.8	771.6	744.5	739.1
72.5°	763.5	764.8	754.0	739.1	733.6	714.7	695.7	655.0	612.9	584.5	587.2
75°	592.6	595.3	602.1	596.7	581.8	561.4	541.1	489.5	455.6	428.5	423.1
77.5°	345.8	359.4	381.1	375.6	378.3	349.9	341.7	291.6	260.4	241.4	237.3
80°	195.3	203.4	212.9	219.7	211.5	199.3	181.7	154.6	145.1	131.5	128.8
82.5°	118.0	126.1	130.2	135.6	132.9	116.6	103.1	85.4	77.3	70.5	69.2
85°	59.7	65.1	69.2	71.9	63.7	52.9	47.5	38.0	32.5	28.5	28.5
87.5°	14.9	16.3	19.0	16.3	14.9	6.8	5.4	1.4	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

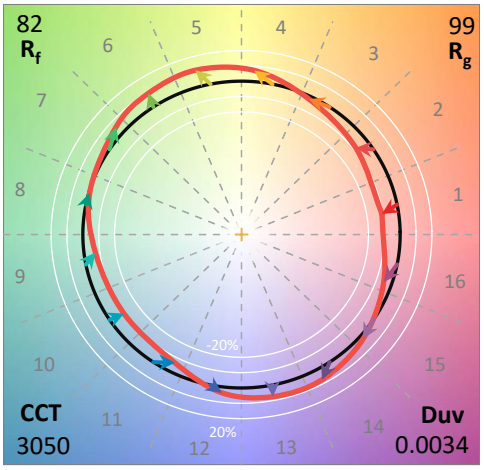
Test Information

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

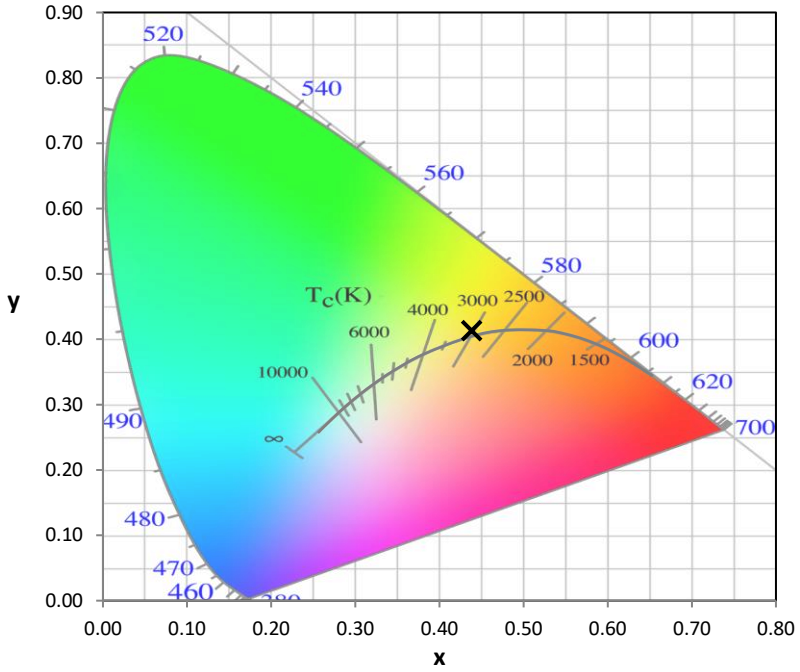
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

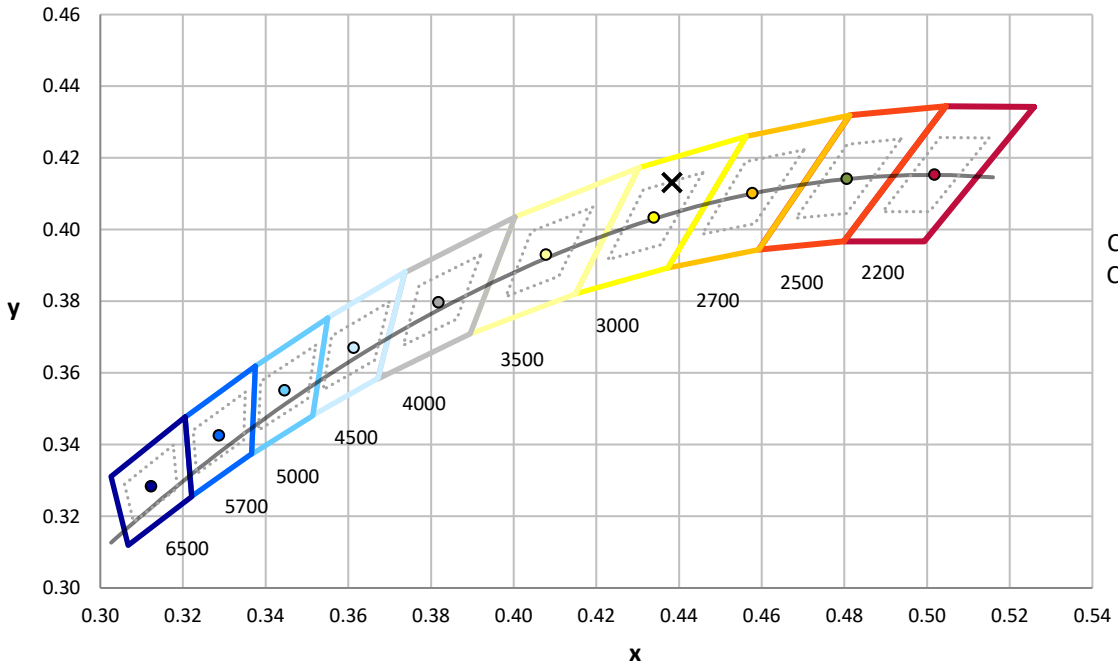
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

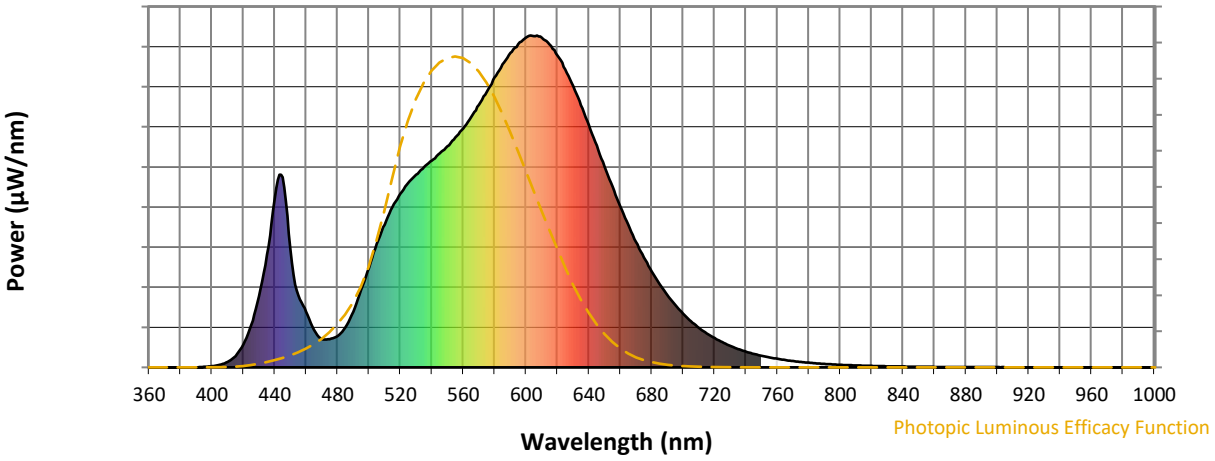


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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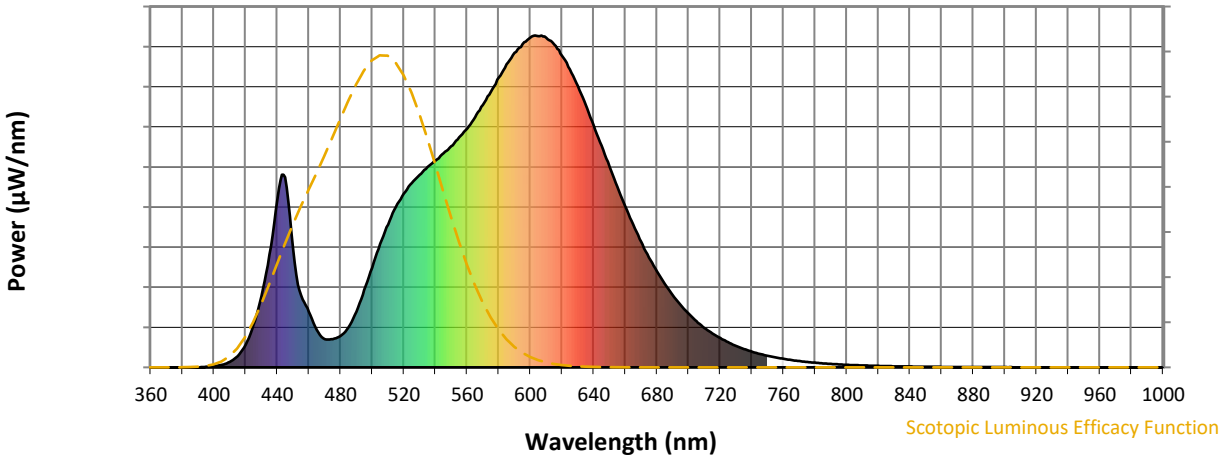
Scotopic Flux vs. Wavelength



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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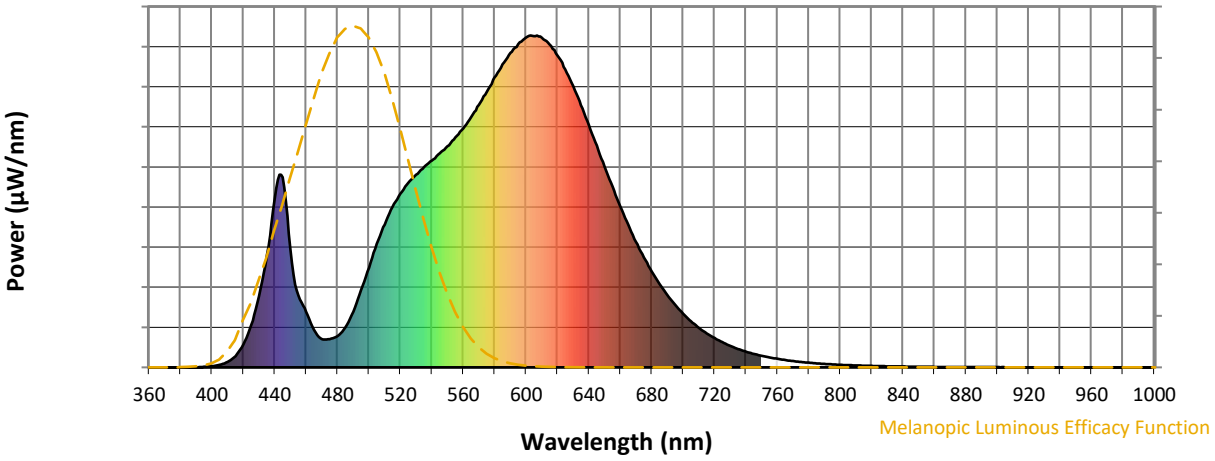
Melanopic Flux vs. Wavelength



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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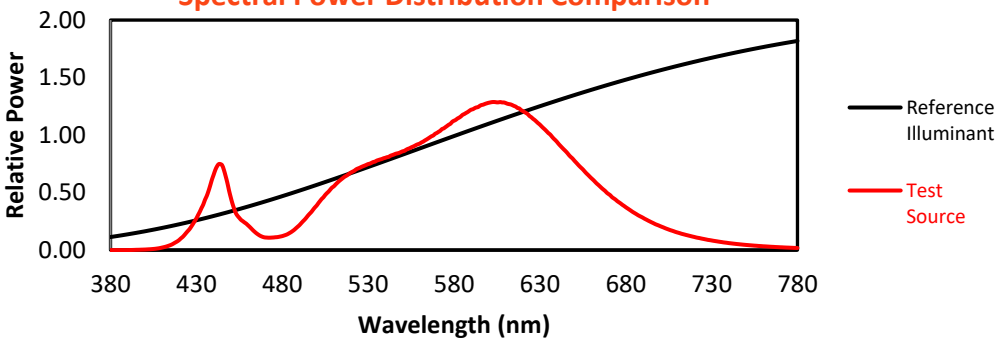
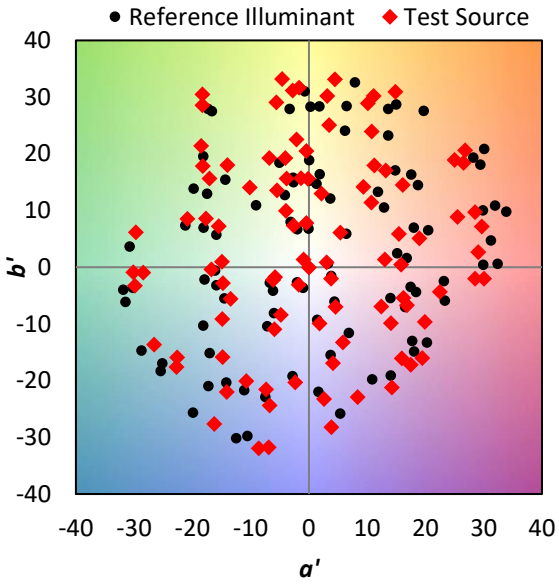
Summary

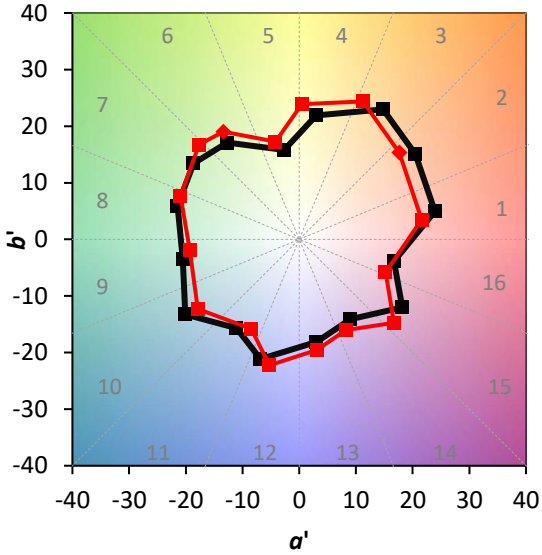
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

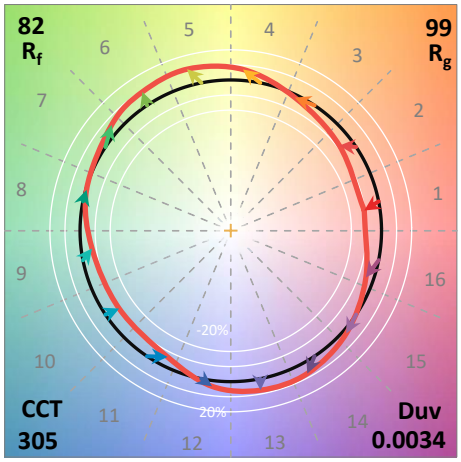
Spectral Power Distribution Comparison

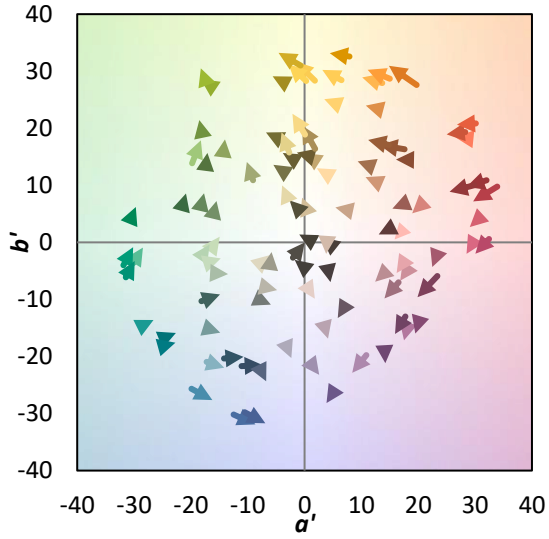


Color Vector Graphics









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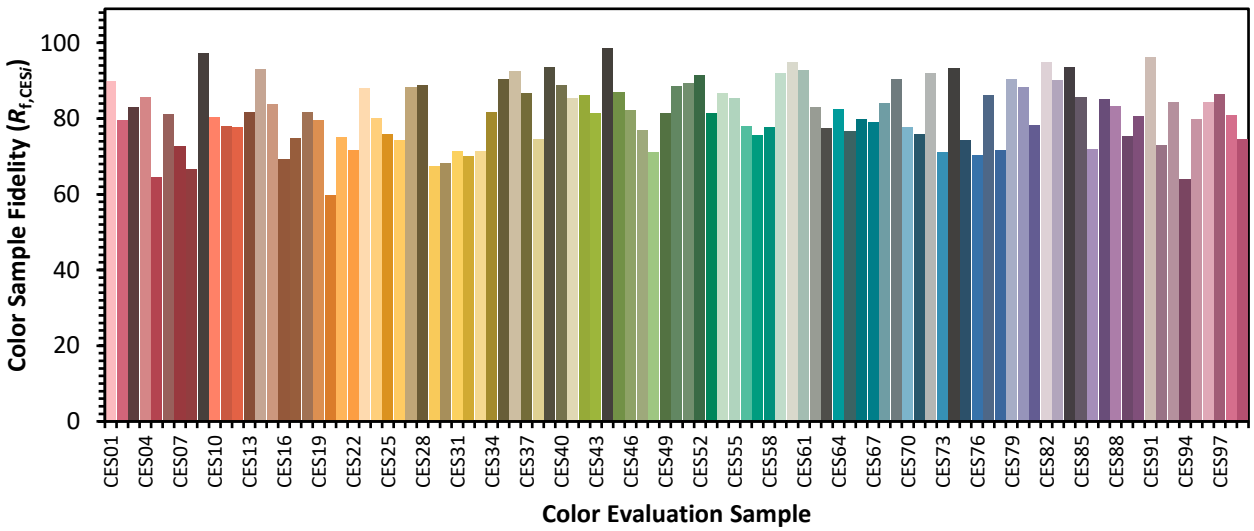
Individual Sample Fidelity Index ($R_{f,i}$)

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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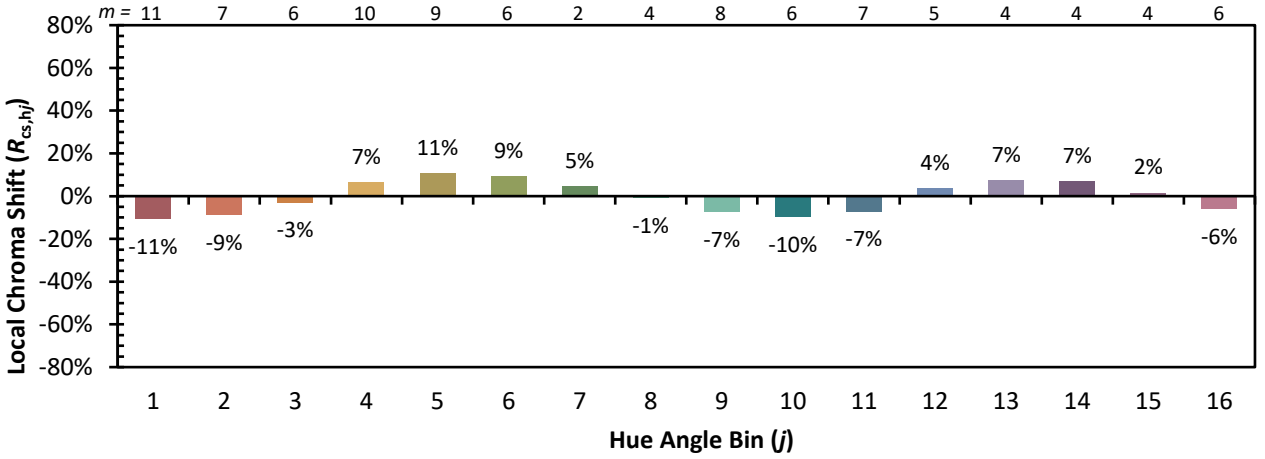
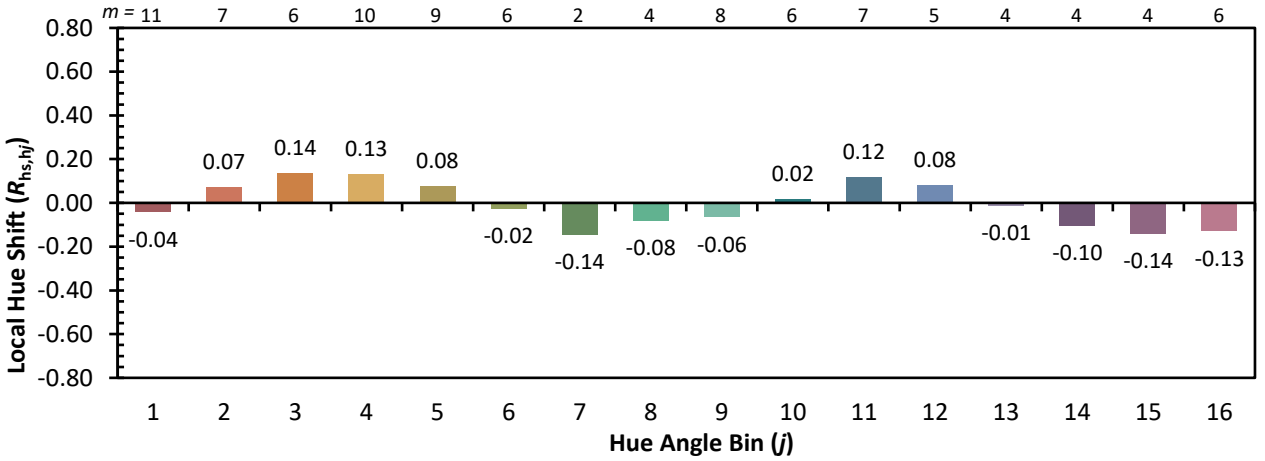
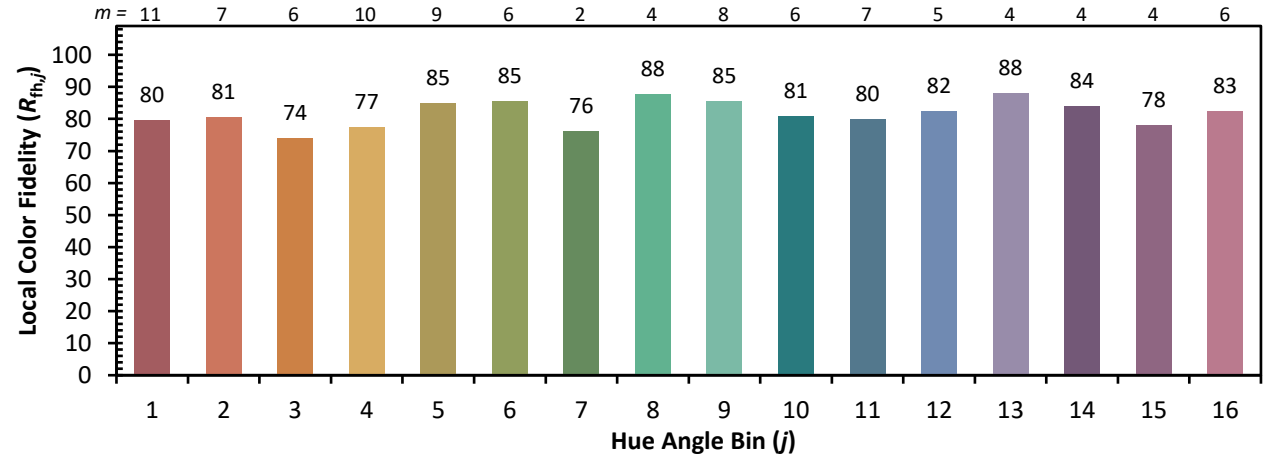
Color Rendition by Hue-Angle Bin







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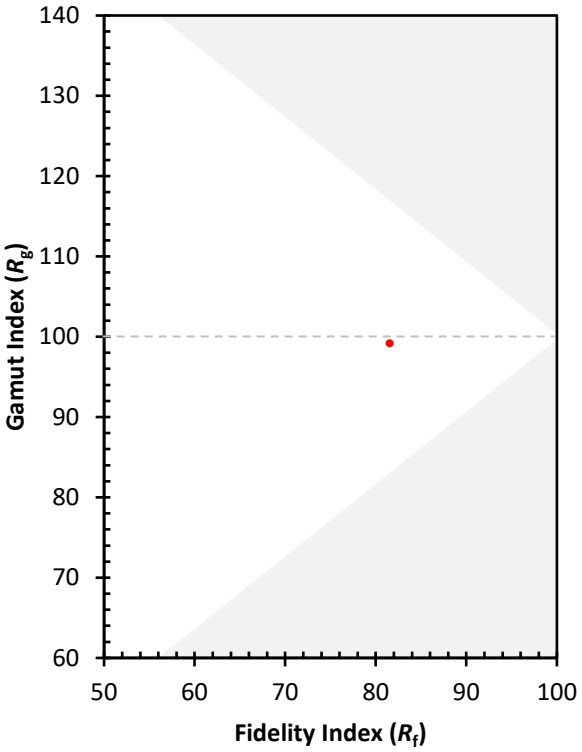
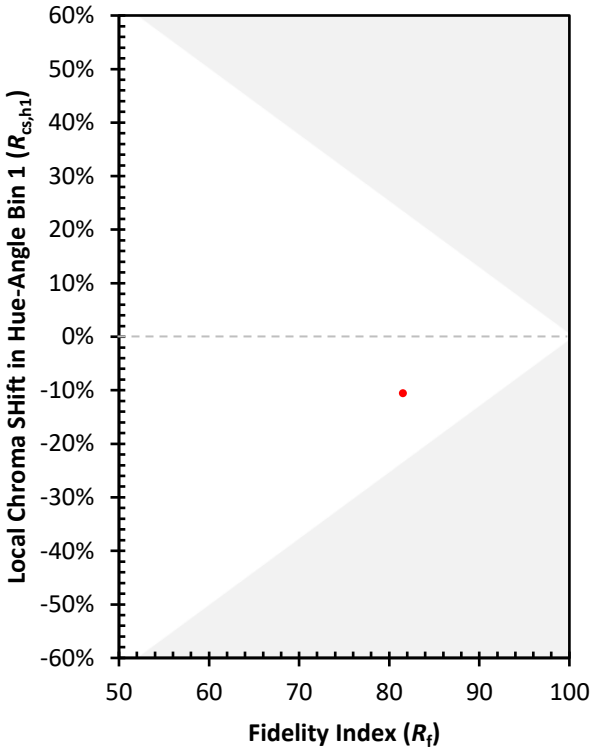
Measure Comparisons





(END OF REPORT)