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: P639975

Luminaire Tested: GWS-SA5C-830-U-T2-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:	P639975
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
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-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14169.5 lumens
Efficiency:	N/A
Efficacy:	90.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - 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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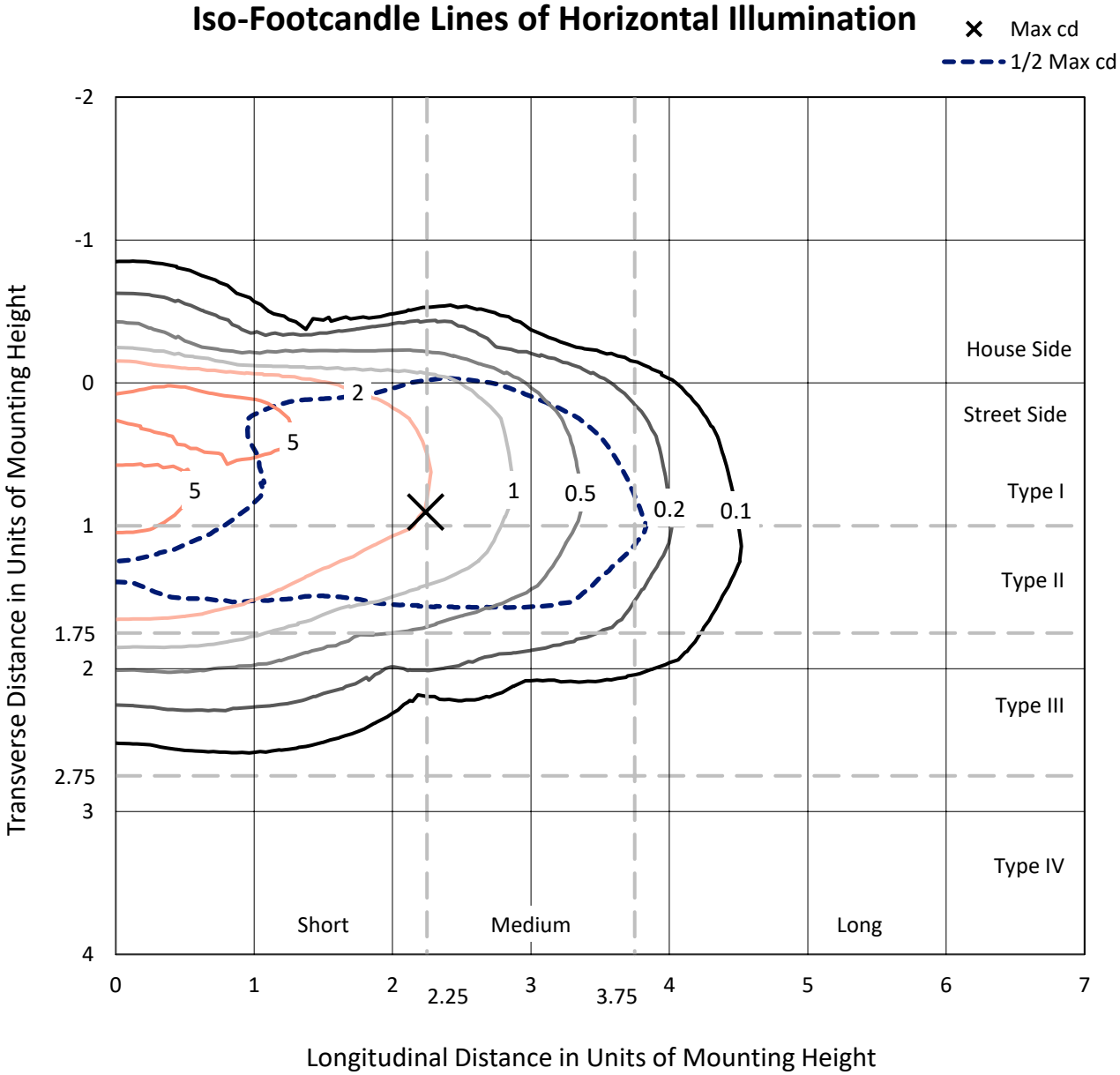
REPORT NUMBER: P639975
CATALOG NUMBER: GWS-SA5C-830-U-T2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Short - N/A

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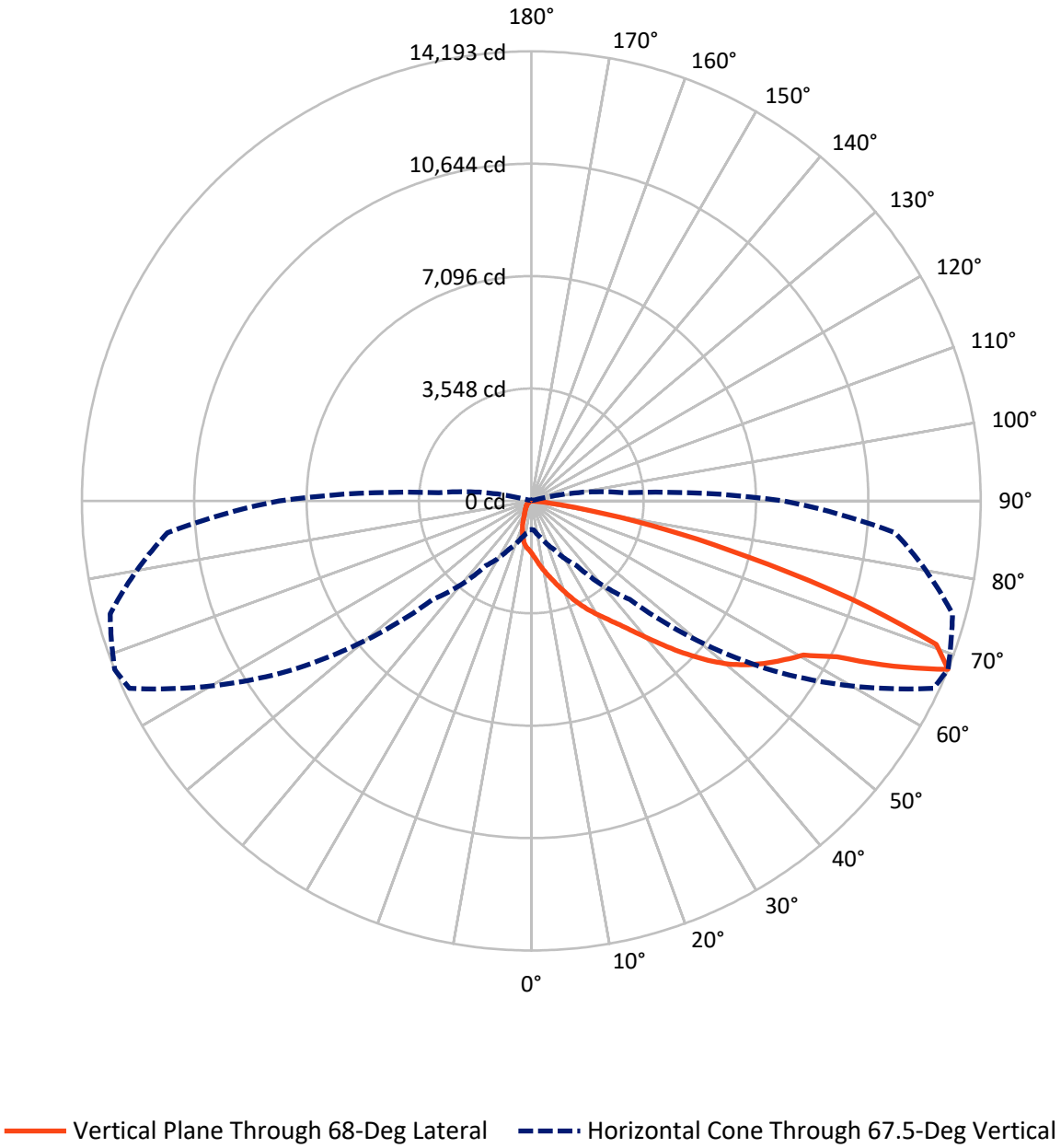
Luminous Intensity Polar Plot



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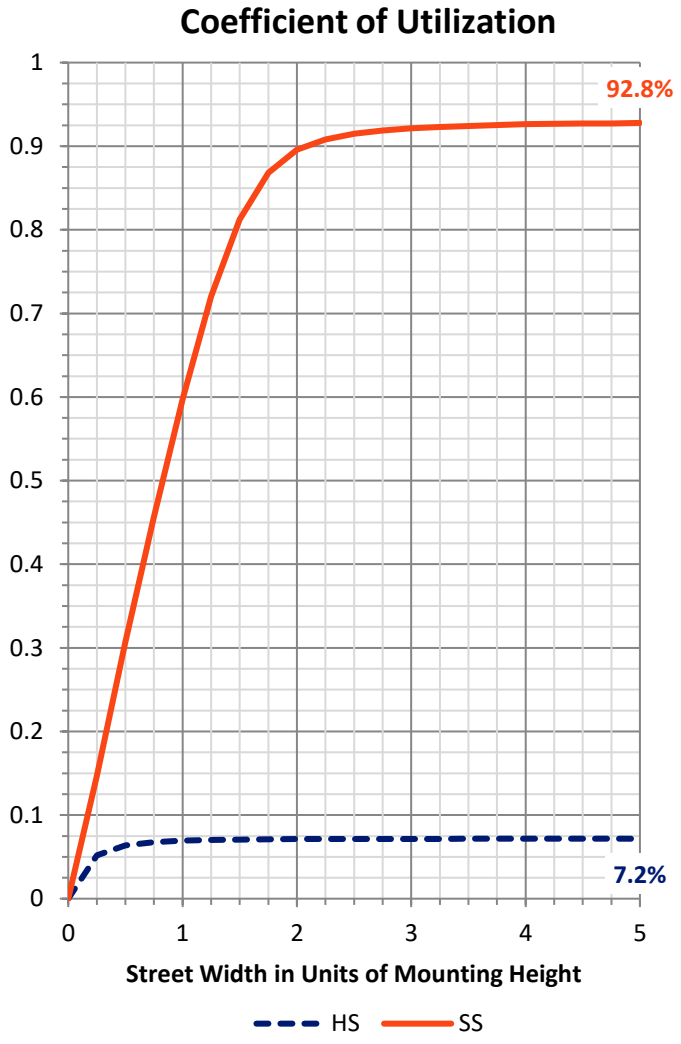
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1023.2	0.0	1023.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13146.3	0.0	13146.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	14169.5	0.0	14169.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	1.1
10°-20°	461.8	3.3
20°-30°	793.7	5.6
30°-40°	1379.9	9.7
40°-50°	2407.8	17.0
50°-60°	3631.5	25.6
60°-70°	3641.5	25.7
70°-80°	1606.6	11.3
80°-90°	85.8	0.6
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°	14169.5	100.0
0°-180°	14169.5	100.0



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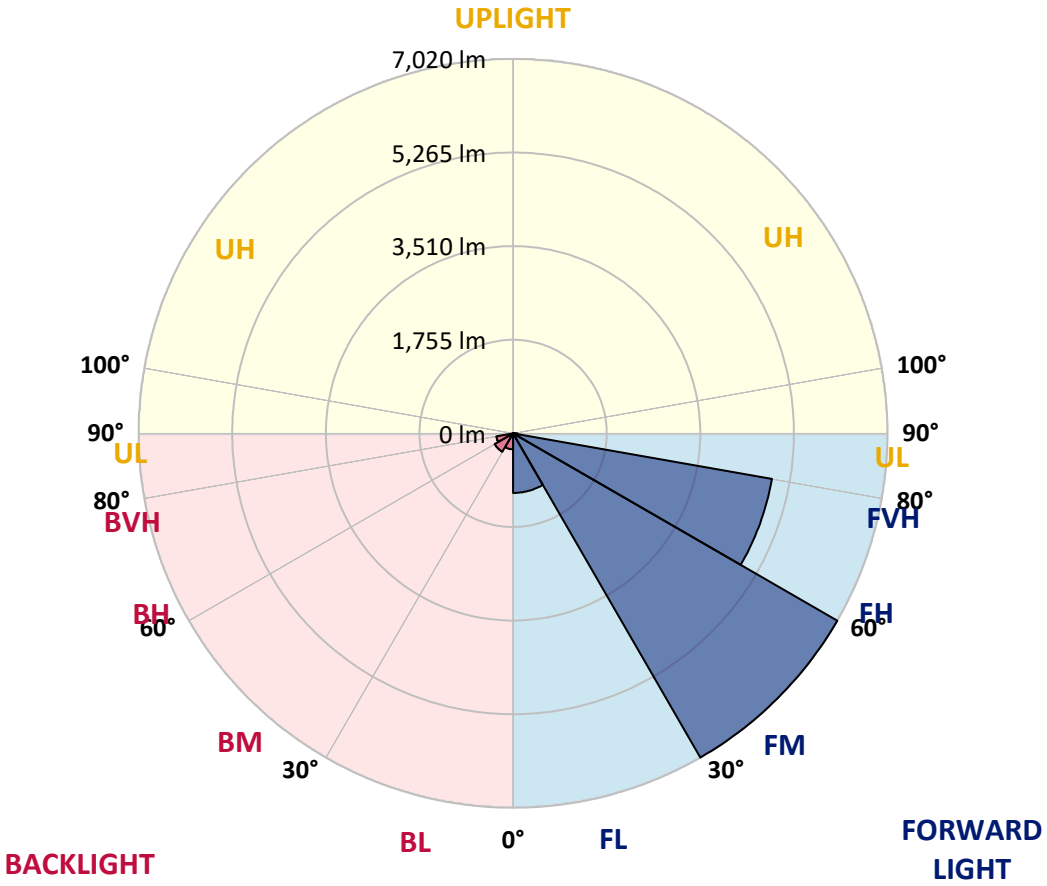
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1117.0	7.9			
FM	(30°-60°)	7019.5	49.5			
FH	(60°-80°)	4928.8	34.8			G2/5000
FVH	(80°-90°)	81.0	0.6			G1/100
BL	(0°-30°)	299.3	2.1	B1/500		
BM	(30°-60°)	399.7	2.8	B1/1000		
BH	(60°-80°)	319.3	2.3	B1/500		G1/500
BVH	(80°-90°)	4.9	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 II Short



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Scaled Data Report

REPORT NUMBER: P639975
CATALOG NUMBER: GWS-SA5C-830-U-T2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	*1649.0*	1649.0	1649.0
2.5°	1920.2	1932.4	1920.2	1922.9	1887.6	1871.4	1836.1	1787.3	*1775.1*	1743.9	1696.4
5°	2154.8	2165.6	2153.4	2150.7	2110.0	2080.2	2021.9	1937.8	*1913.4*	1852.4	1758.8
7.5°	2282.2	2289.0	2293.1	2299.9	2285.0	2260.6	2207.7	2103.2	*2077.5*	1978.5	1847.0
10°	2295.8	2301.2	2321.6	2362.3	2392.1	2407.0	2377.2	2280.9	*2240.2*	2143.9	1955.4
12.5°	2257.8	2266.0	2298.5	2366.3	2449.0	2525.0	2544.0	2459.9	*2423.3*	2299.9	2082.9
15°	2207.7	2214.4	2259.2	2351.4	2476.2	2615.8	2694.5	2657.9	*2617.2*	2488.4	2223.9
17.5°	2130.4	2139.9	2202.2	2327.0	2488.4	2687.7	2857.2	2869.4	*2840.9*	2701.3	2379.9
20°	2087.0	2093.8	2149.4	2278.2	2480.2	2740.6	3009.1	3124.4	*3093.2*	2946.7	2558.9
22.5°	2123.6	2129.0	2165.6	2266.0	2453.1	2770.4	3150.1	3379.3	*3361.7*	3209.8	2747.4
25°	2316.2	2333.8	2312.1	2329.7	2465.3	2786.7	3264.0	3634.2	*3638.3*	3485.1	2942.7
27.5°	2706.7	2683.6	2632.1	2544.0	2560.2	2830.1	3361.7	3874.3	*3909.5*	3753.6	3116.2
30°	3104.0	3090.5	3059.3	2922.3	2808.4	2926.4	3444.4	4119.7	*4175.3*	4018.0	3270.8
32.5°	3550.2	3563.7	3508.1	3344.0	3150.1	3121.7	3529.8	4353.0	*4457.4*	4317.7	3452.5
35°	4083.1	4087.2	3977.3	3795.6	3575.9	3444.4	3683.1	4610.6	*4803.2*	4700.1	3695.3
37.5°	4602.5	4626.9	4567.2	4281.1	4085.8	3845.8	3936.6	4941.5	*5212.7*	5172.0	4000.4
40°	5062.2	5100.1	5081.2	4804.5	4548.2	4346.2	4329.9	5329.3	*5707.7*	5753.8	4403.1
42.5°	5428.3	5452.7	5467.6	5271.0	5044.5	4930.6	4815.4	5779.5	*6292.1*	6480.6	4896.7
45°	5814.8	5822.9	5854.1	5721.2	5523.2	5532.7	5389.0	6326.0	*6907.8*	7286.1	5463.6
47.5°	6307.0	6334.2	6319.2	6179.6	6000.6	6107.7	5981.6	6888.8	*7515.3*	8145.9	6044.0
50°	6906.4	6934.9	6921.3	6758.6	6559.3	6604.0	6525.4	7435.3	*8101.1*	8956.8	6526.7
52.5°	7215.6	7238.7	7406.8	7480.0	7375.6	7090.8	6989.1	8036.0	*8596.1*	9624.0	6970.2
55°	7066.4	7082.7	7448.8	7758.0	8140.4	7855.7	7455.6	8499.8	*9032.7*	10144.7	7299.7
57.5°	6448.1	6536.2	7033.9	7557.3	8361.5	8611.0	8212.3	9004.2	*9453.1*	10506.8	7623.8
60°	5180.2	5176.1	5889.4	6829.1	7930.2	8818.5	9280.9	9686.3	*9874.8*	10784.7	8057.7
62.5°	2862.6	2888.4	3837.7	5075.7	6731.5	8281.5	10082.3	10864.8	*10836.3*	11270.2	8737.1
65°	1425.2	1476.7	1992.1	2907.4	4479.1	6844.0	10220.6	12662.9	*12581.5*	12413.4	10140.6
67.5°	*904.5*	*924.8*	*1209.6*	*1689.7*	*2489.7*	*4399.1*	*9359.5*	*14004.0*	*14192.5*	*13769.4*	*11533.3*
70°	585.8	619.7	840.8	1155.4	1502.5	2267.3	6856.2	13134.8	*13567.4*	13620.3	10665.4
72.5°	318.7	343.1	537.0	824.5	1084.8	1133.7	3851.2	9857.2	*10552.9*	11553.6	8343.8
75°	181.7	199.3	294.3	560.1	796.0	690.2	1707.3	6598.6	*7042.0*	8257.1	5978.9
77.5°	109.8	124.8	165.4	272.6	499.0	461.1	645.5	4016.7	*4298.7*	4926.6	3137.9
80°	50.2	59.7	104.4	150.5	272.6	218.3	246.8	1872.7	*1933.7*	2021.9	1038.7
82.5°	23.1	27.1	47.5	89.5	154.6	126.1	94.9	432.6	*608.9*	576.3	264.4
85°	2.7	2.7	17.6	36.6	43.4	32.5	39.3	97.6	*123.4*	173.6	75.9
87.5°	0.0	0.0	1.4	1.4	2.7	4.1	8.1	12.2	*17.6*	28.5	19.0
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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REPORT NUMBER: P639975
CATALOG NUMBER: GWS-SA5C-830-U-T2-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0
2.5°	1674.7	1636.8	1602.9	1552.7	1518.8	1480.8	1455.1	1423.9	1411.7	1402.2	1388.6
5°	1712.7	1651.7	1569.0	1476.7	1400.8	1328.9	1262.5	1219.1	1181.1	1175.7	1156.7
7.5°	1775.1	1684.2	1544.6	1394.0	1265.2	1145.9	1052.3	976.4	938.4	926.2	904.5
10°	1857.8	1733.0	1507.9	1277.4	1091.6	949.2	843.5	758.0	698.4	676.7	660.4
12.5°	1950.0	1777.8	1449.6	1133.7	922.1	759.4	625.1	534.3	496.3	482.8	470.6
15°	2055.8	1819.8	1357.4	989.9	756.7	558.7	463.8	424.4	408.2	404.1	400.0
17.5°	2157.5	1847.0	1247.6	840.8	581.7	433.9	389.2	374.3	370.2	366.1	363.4
20°	2272.8	1865.9	1118.7	699.7	451.6	367.5	345.8	334.9	326.8	318.7	317.3
22.5°	2390.7	1865.9	979.1	561.4	378.3	329.5	305.1	284.8	269.9	261.7	259.0
25°	2503.3	1840.2	840.8	448.9	333.6	292.9	261.7	238.7	218.3	208.8	206.1
27.5°	2583.3	1773.7	720.1	379.7	302.4	260.4	222.4	196.6	180.4	170.9	169.5
30°	2633.5	1674.7	608.9	339.0	275.3	226.5	188.5	166.8	154.6	147.8	145.1
32.5°	2671.4	1552.7	509.9	310.5	249.5	196.6	164.1	146.5	135.6	130.2	128.8
35°	2747.4	1437.4	436.7	284.8	222.4	172.2	143.7	130.2	122.0	115.3	113.9
37.5°	2853.2	1341.1	378.3	261.7	196.6	153.2	130.2	118.0	111.2	104.4	103.1
40°	3009.1	1280.1	334.9	238.7	173.6	138.3	119.3	108.5	99.0	92.2	90.9
42.5°	3249.1	1251.6	306.5	215.6	153.2	124.8	109.8	96.3	86.8	80.0	78.7
45°	3535.2	1266.6	282.1	192.6	139.7	115.3	97.6	84.1	74.6	67.8	66.4
47.5°	3841.7	1319.4	261.7	170.9	126.1	105.8	86.8	71.9	63.7	57.0	55.6
50°	4161.7	1406.2	244.1	150.5	115.3	94.9	74.6	62.4	54.2	48.8	47.5
52.5°	4439.7	1524.2	226.5	135.6	105.8	84.1	65.1	54.2	46.1	40.7	39.3
55°	4705.5	1635.4	212.9	122.0	94.9	73.2	57.0	46.1	39.3	33.9	32.5
57.5°	4994.4	1753.4	196.6	109.8	85.4	65.1	50.2	39.3	33.9	28.5	27.1
60°	5414.7	1928.3	172.2	100.3	74.6	57.0	43.4	35.3	29.8	23.1	21.7
62.5°	6020.9	2247.0	145.1	86.8	63.7	48.8	36.6	29.8	24.4	19.0	16.3
65°	7154.6	2789.4	119.3	71.9	51.5	40.7	31.2	24.4	19.0	13.6	12.2
67.5°	*7970.9*	*2930.4*	*96.3*	*58.3*	*42.0*	*31.2*	*25.8*	*19.0*	*13.6*	*9.5*	*8.1*
70°	6968.8	2104.6	74.6	47.5	35.3	24.4	20.3	14.9	9.5	6.8	5.4
72.5°	5250.7	1375.0	55.6	36.6	27.1	20.3	14.9	12.2	8.1	5.4	4.1
75°	3700.7	794.7	40.7	27.1	19.0	14.9	12.2	9.5	6.8	4.1	4.1
77.5°	1897.1	328.2	28.5	19.0	13.6	9.5	8.1	5.4	5.4	4.1	2.7
80°	576.3	108.5	16.3	12.2	9.5	6.8	4.1	4.1	4.1	2.7	1.4
82.5°	131.5	35.3	9.5	9.5	6.8	5.4	4.1	1.4	1.4	0.0	0.0
85°	33.9	10.8	8.1	6.8	6.8	5.4	2.7	1.4	0.0	0.0	0.0
87.5°	12.2	6.8	6.8	6.8	5.4	4.1	2.7	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

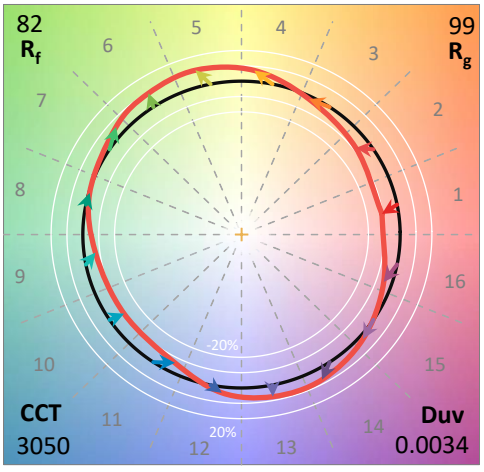
Test Information

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

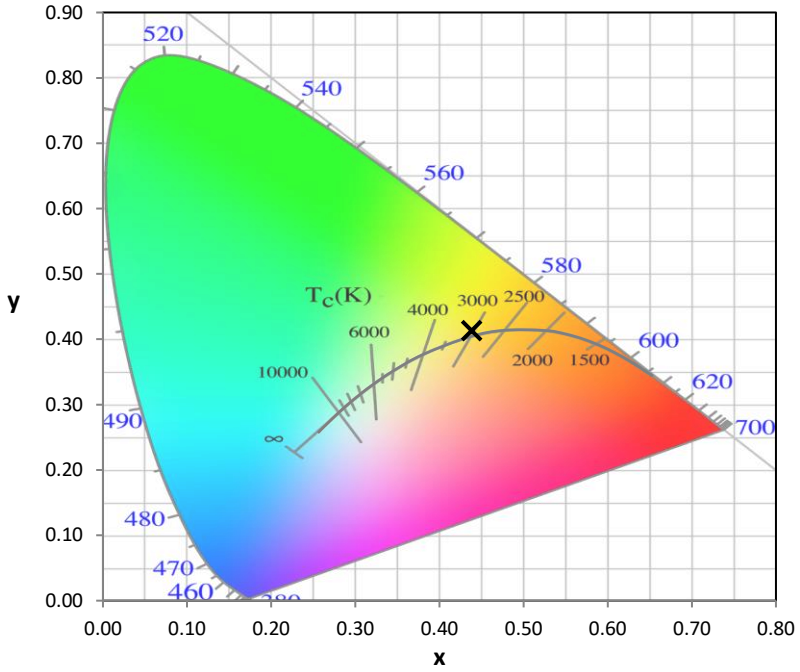
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

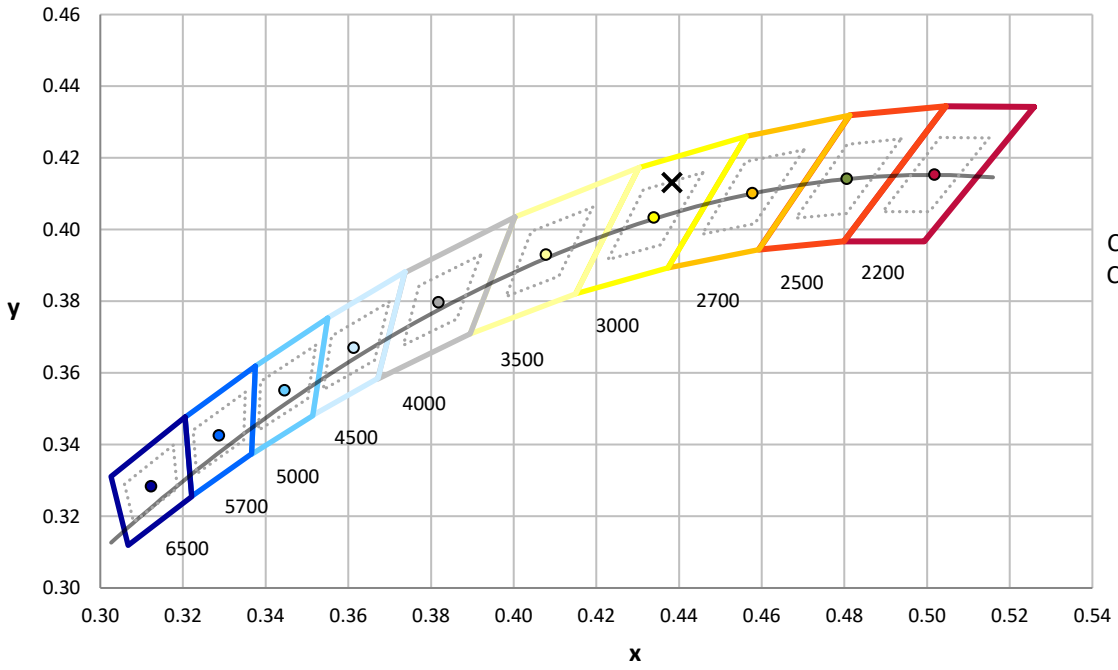
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

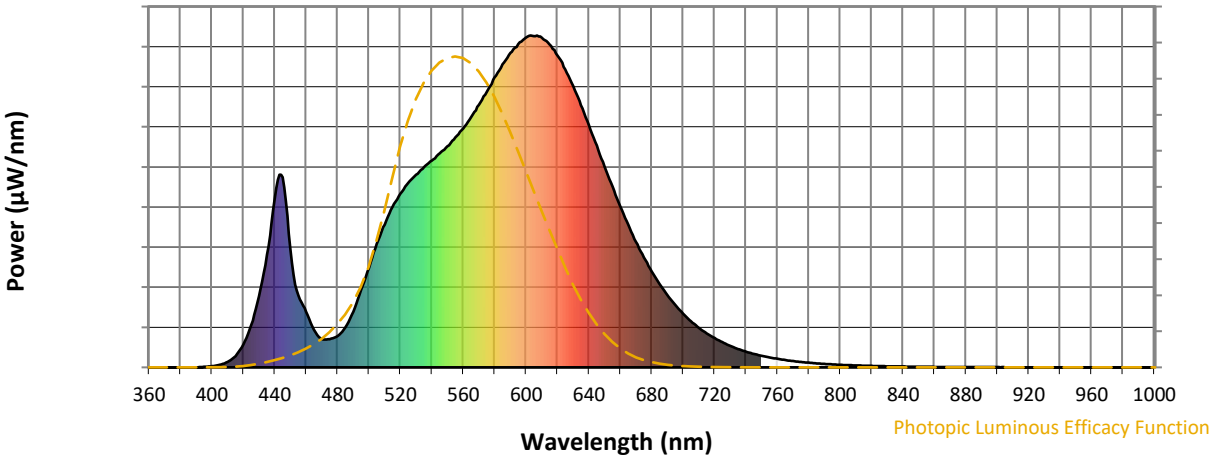


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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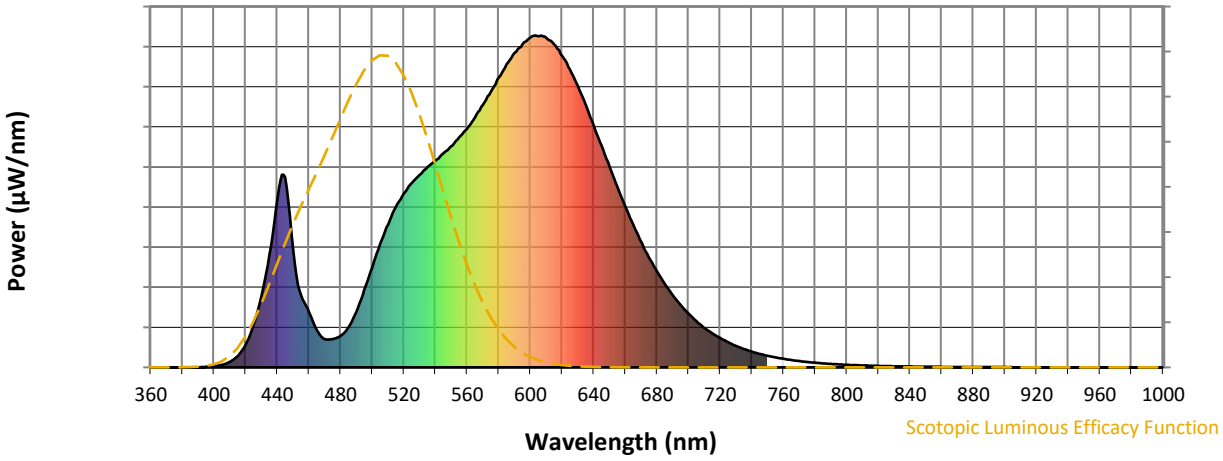
Scotopic Flux vs. Wavelength



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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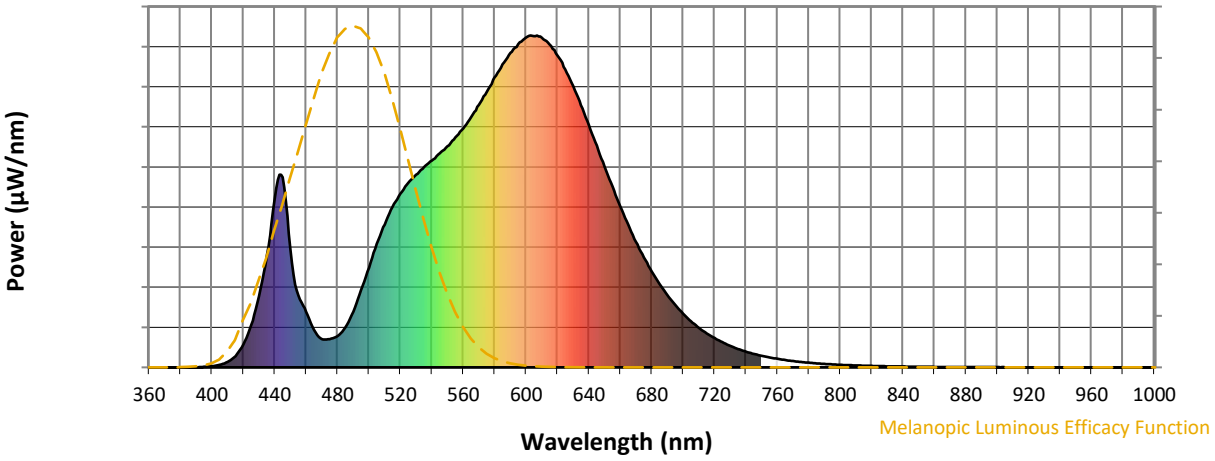
Melanopic Flux vs. Wavelength



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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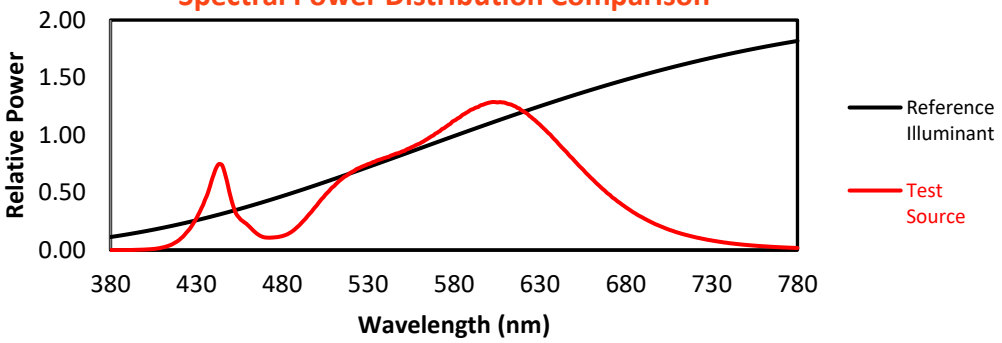
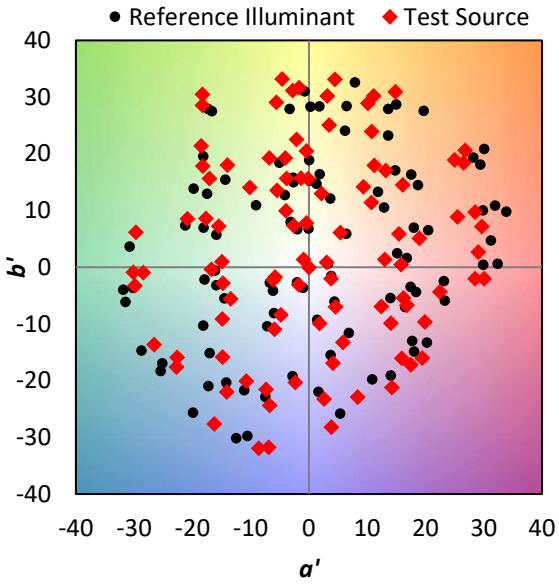
Summary

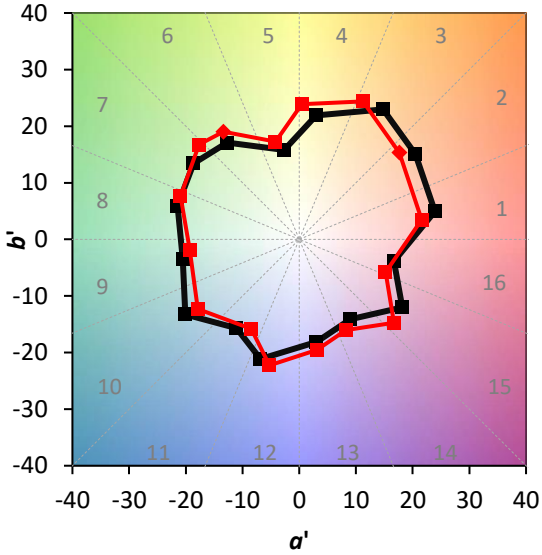
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

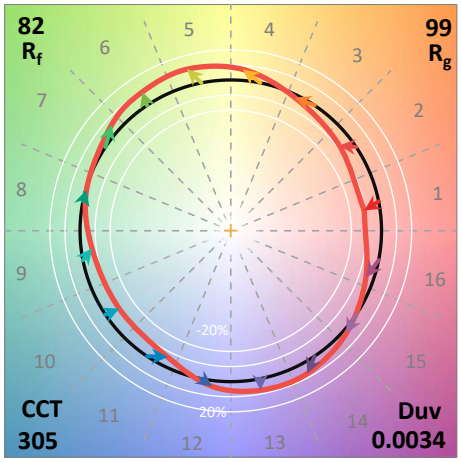
Spectral Power Distribution Comparison

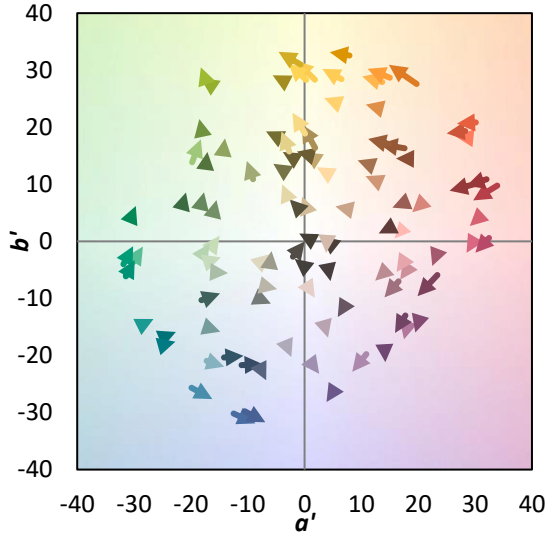


Color Vector Graphics









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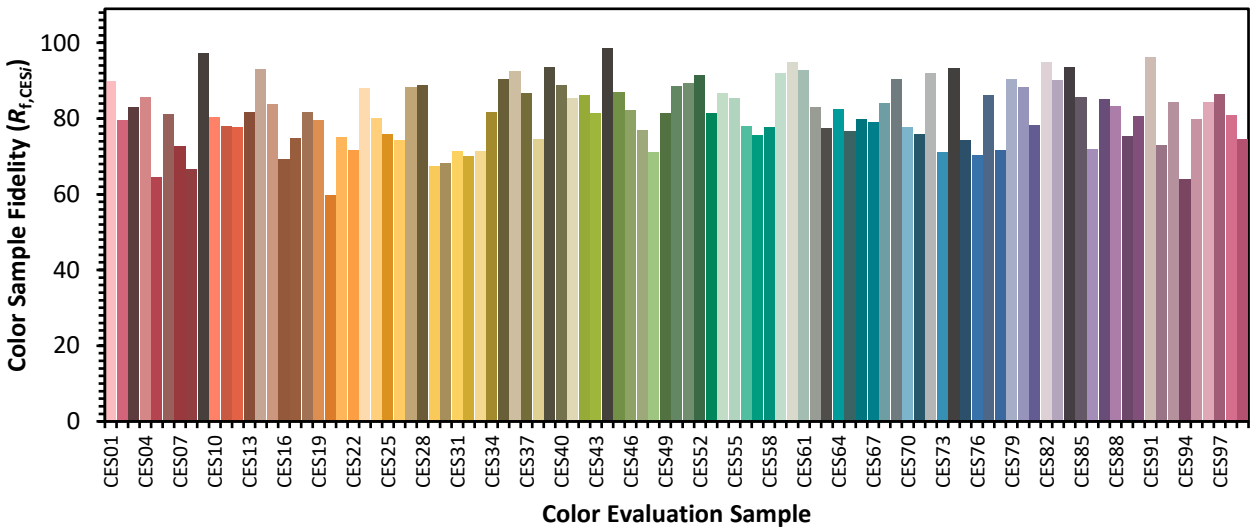
Individual Sample Fidelity Index ($R_{f,i}$)

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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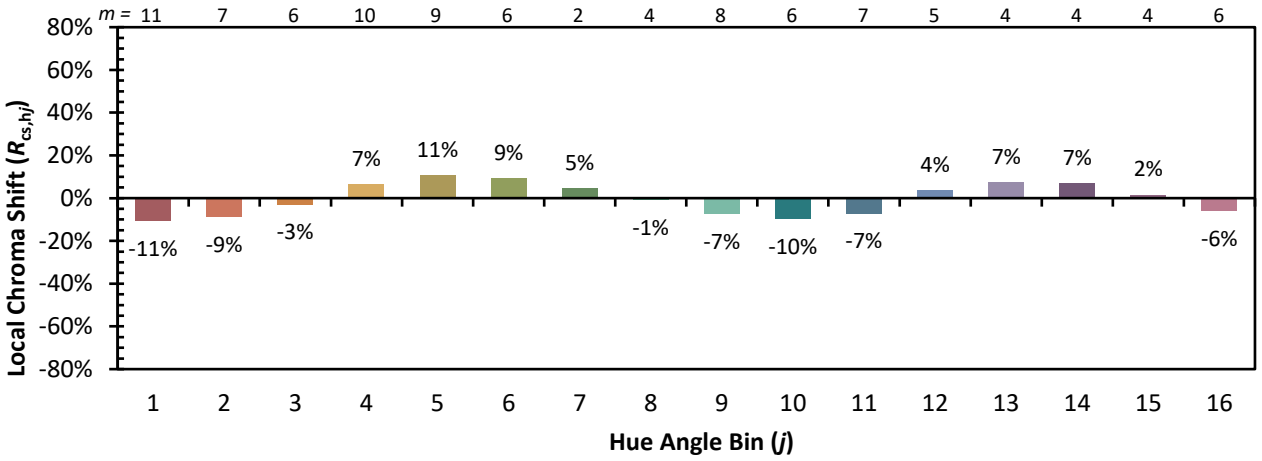
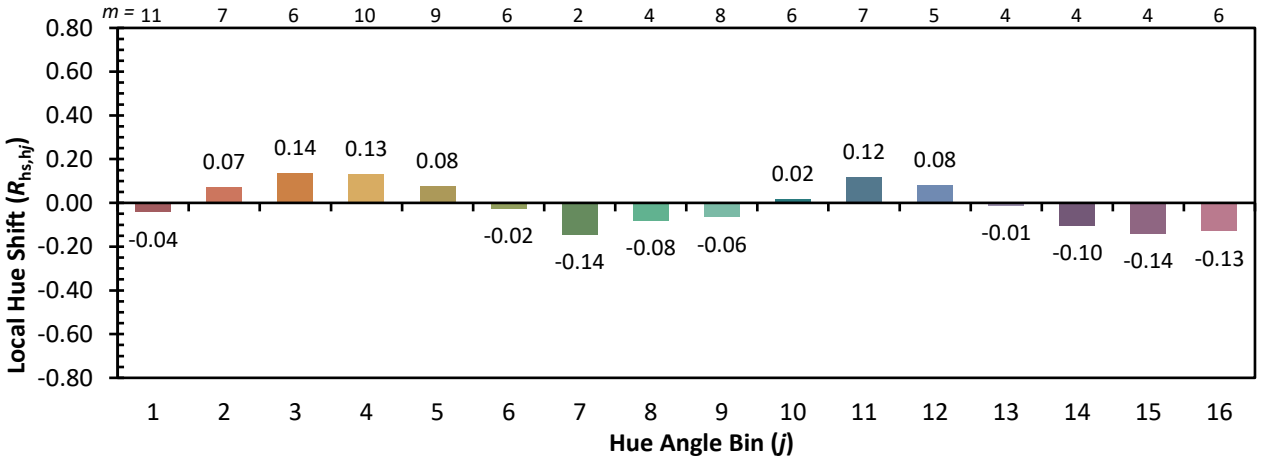
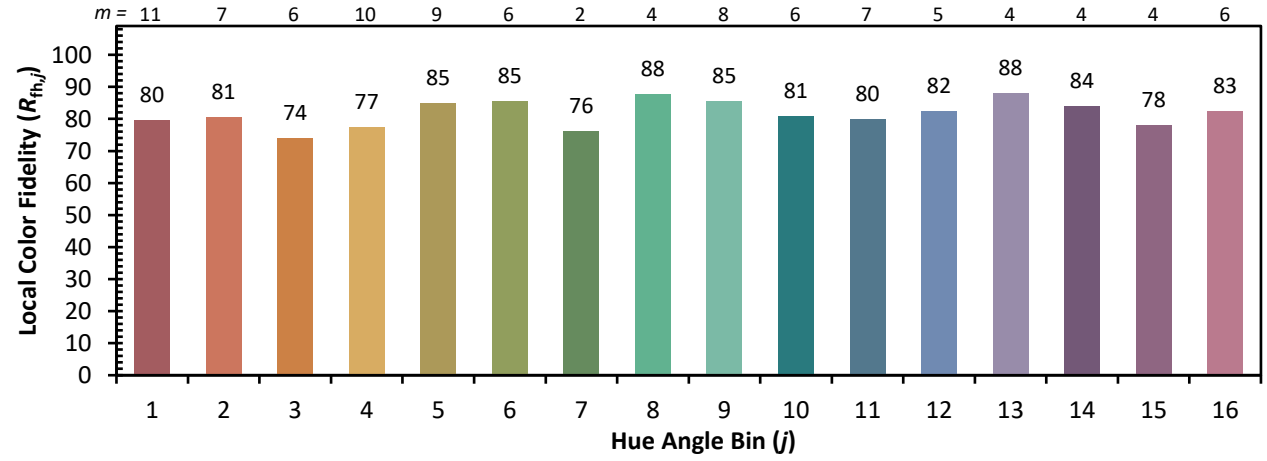
Color Rendition by Hue-Angle Bin







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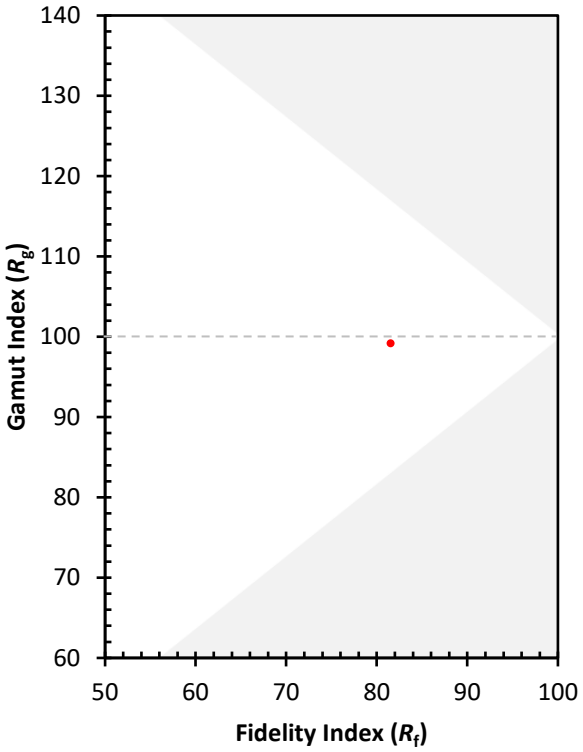
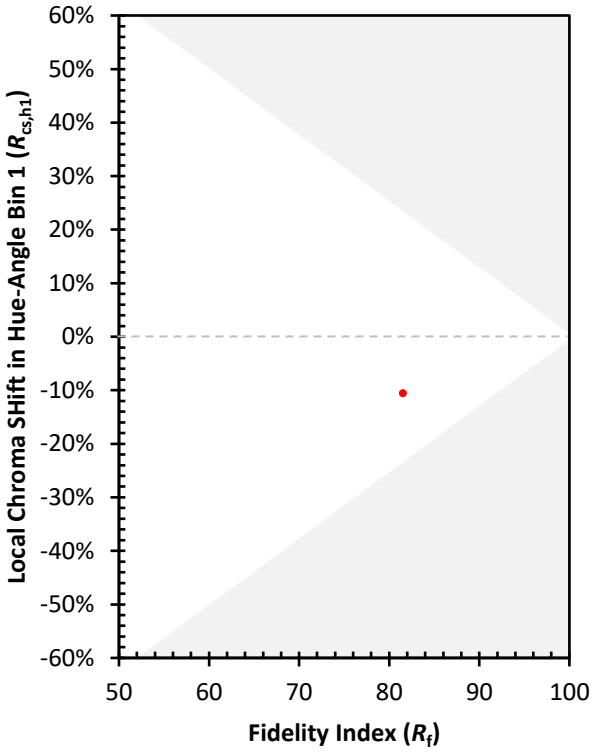
Measure Comparisons





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