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: P634012

Luminaire Tested: GWS-SA2F-830-U-RW-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:	P634012
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2F-830-U-RW-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11360.4 lumens
Efficiency:	N/A
Efficacy:	91.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B3 - U0 - G1

Input Watts (W):	124.5
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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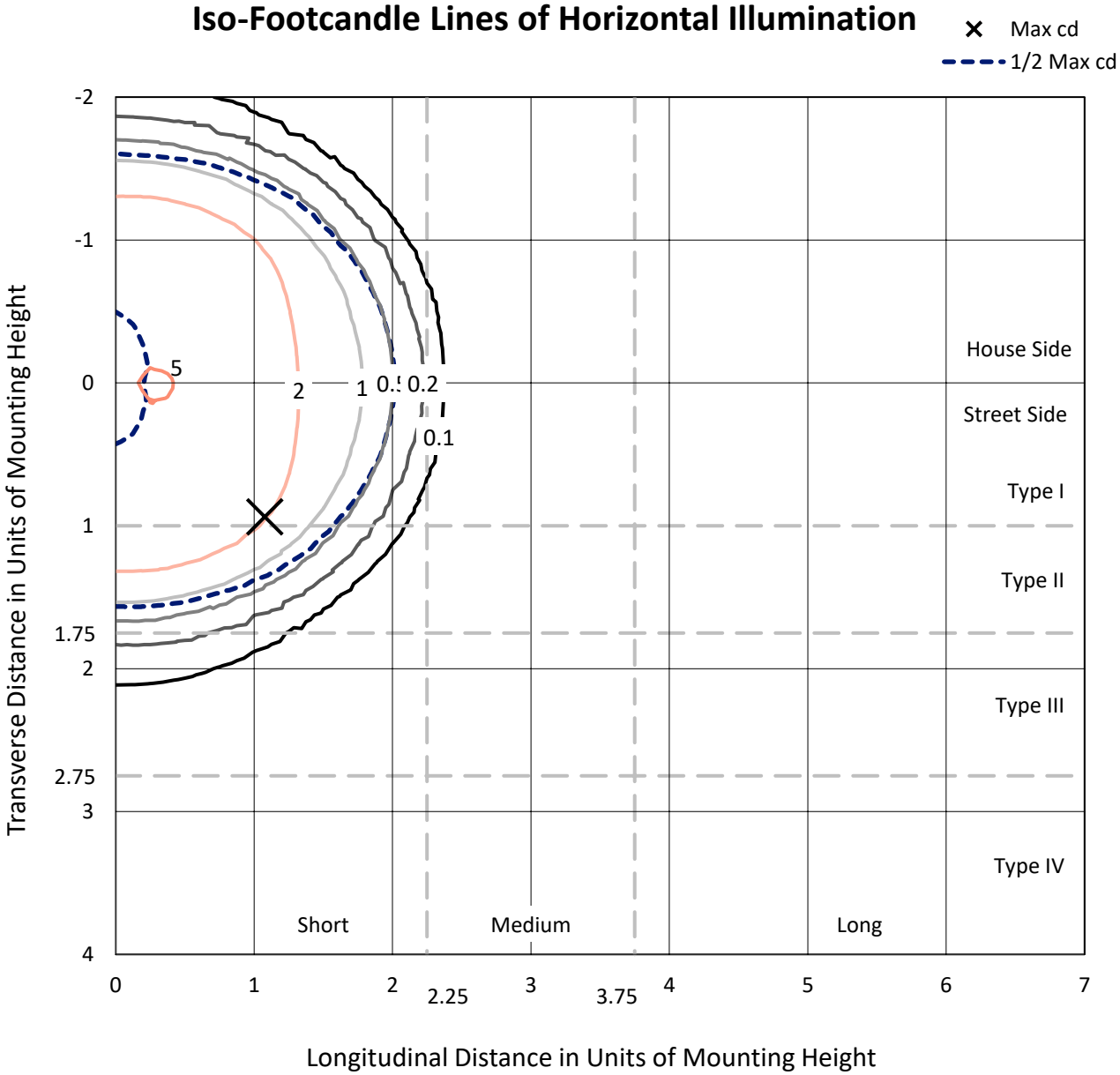
Scaled Data Report

REPORT NUMBER: P634012
CATALOG NUMBER: GWS-SA2F-830-U-RW-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
Type V - Short - N/A

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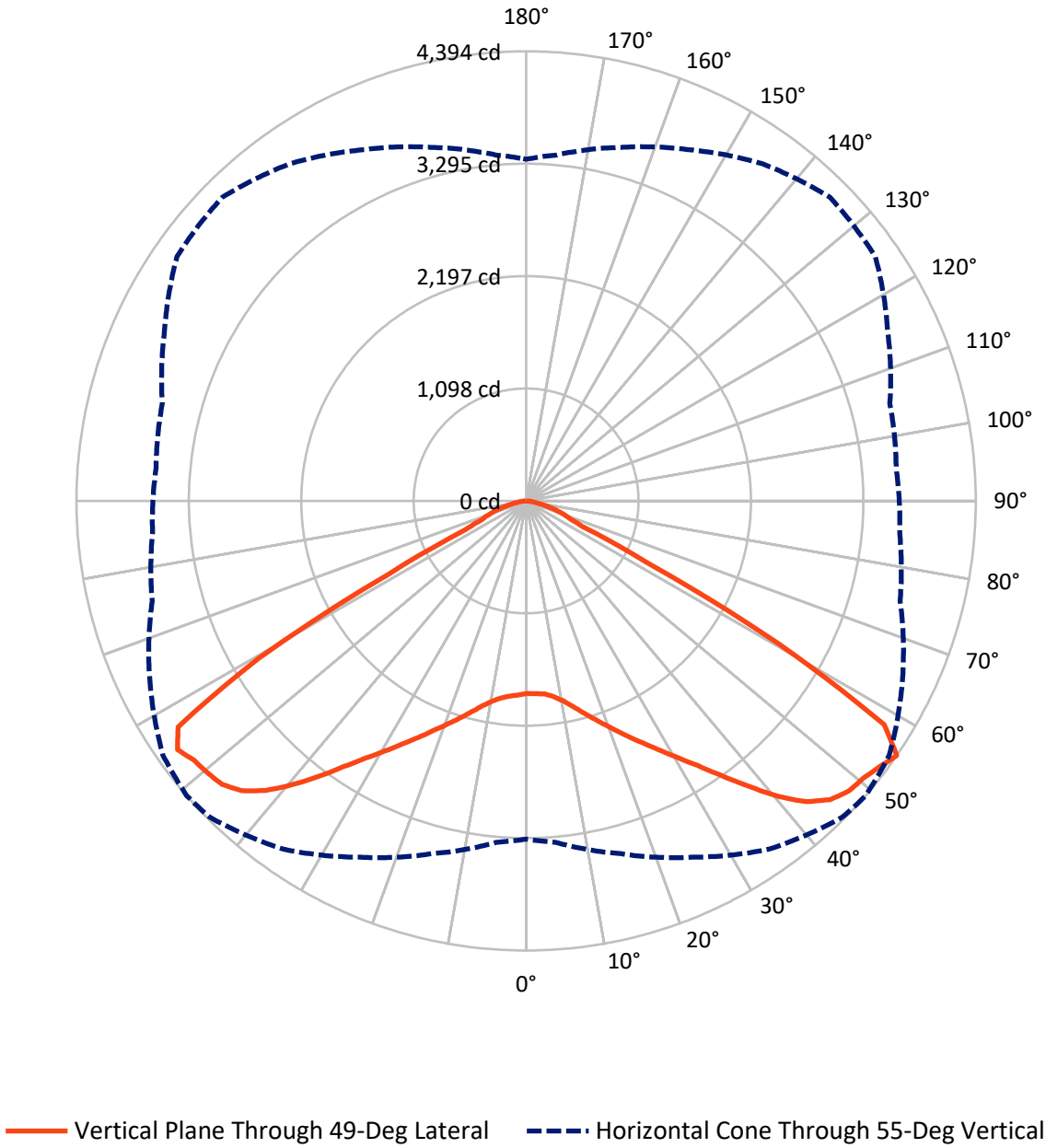
Luminous Intensity Polar Plot



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REPORT NUMBER: P634012
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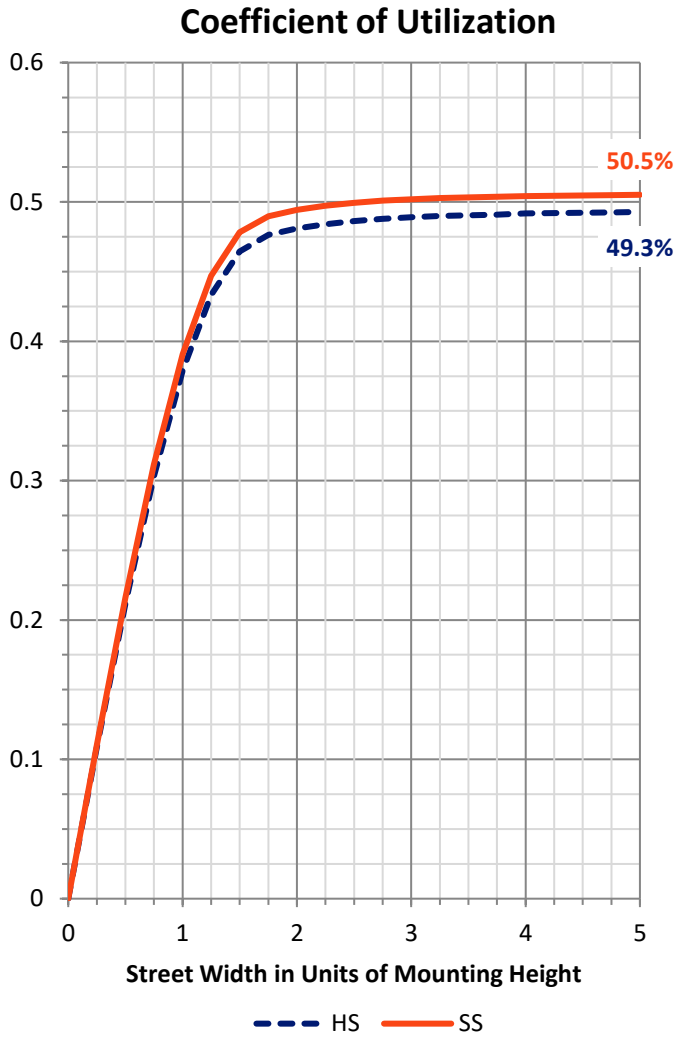
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5624.5	0.0	5624.5
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	5735.9	0.0	5735.9
	% Fixture	50.5	0.0	50.5
Total	Lumens	11360.4	0.0	11360.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	1.6
10°-20°	605.5	5.3
20°-30°	1153.4	10.2
30°-40°	1955.2	17.2
40°-50°	2942.4	25.9
50°-60°	3220.8	28.4
60°-70°	1018.4	9.0
70°-80°	244.4	2.2
80°-90°	36.7	0.3
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°	11360.4	100.0
0°-180°	11360.4	100.0



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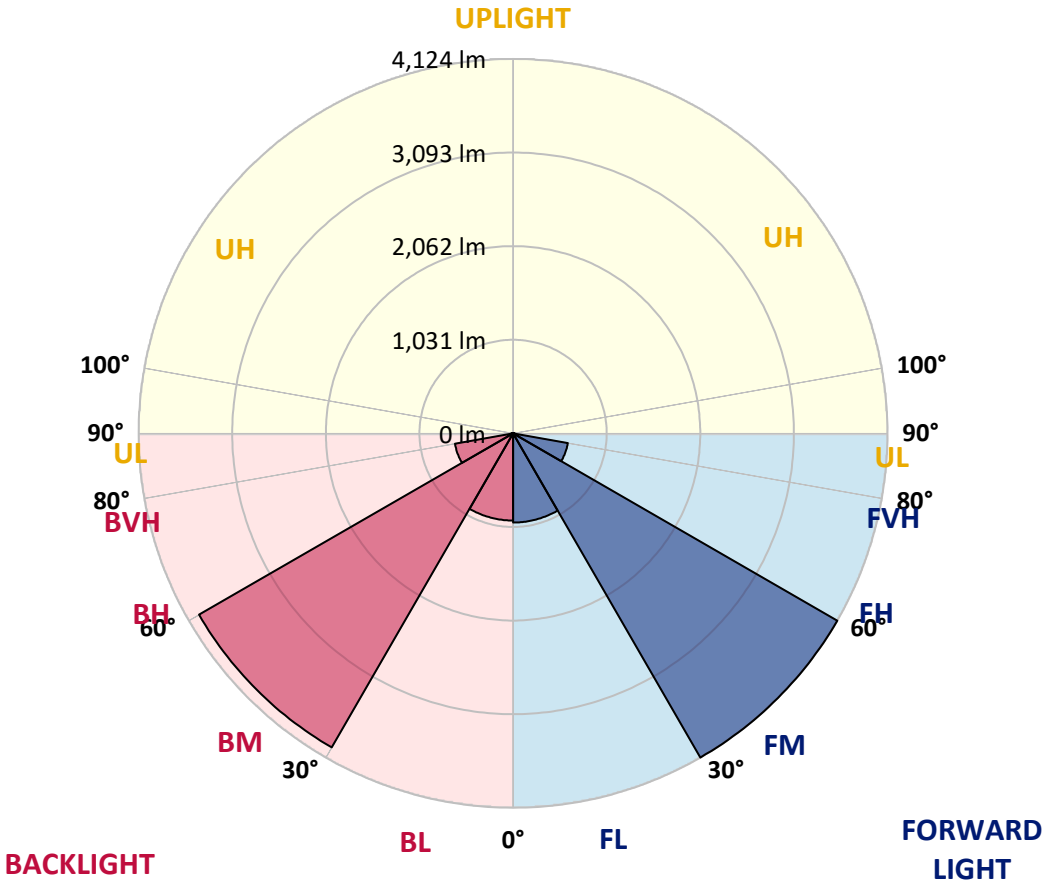
REPORT NUMBER: P634012
CATALOG NUMBER: GWS-SA2F-830-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	982.2	8.6			
FM	(30°-60°)	4124.1	36.3			
FH	(60°-80°)	612.6	5.4			G0/660
FVH	(80°-90°)	17.0	0.1			G1/100
BL	(0°-30°)	960.3	8.5	B2/1000		
BM	(30°-60°)	3994.3	35.2	B3/5000		
BH	(60°-80°)	650.3	5.7	B2/1000		G0/660
BVH	(80°-90°)	19.7	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-G1
Type V Short



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Scaled Data Report

REPORT NUMBER: P634012
CATALOG NUMBER: GWS-SA2F-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9
2.5°	1854.2	1856.1	1859.7	1866.2	1872.7	1881.9	1885.6	1890.2	1889.3	1894.9	1894.9
5°	1845.0	1847.7	1853.3	1862.5	1873.6	1891.2	1895.8	1906.9	1918.0	1931.8	1936.4
7.5°	1856.1	1859.7	1866.2	1881.0	1897.6	1920.7	1930.0	1948.4	1969.7	1994.6	2004.8
10°	1877.3	1881.9	1893.0	1917.0	1943.8	1978.9	1987.2	2010.3	2044.5	2078.7	2099.0
12.5°	1901.3	1908.7	1929.0	1966.9	2006.6	2052.8	2065.8	2094.4	2131.4	2175.7	2203.4
15°	1929.0	1935.5	1966.9	2020.5	2082.4	2143.4	2158.2	2185.9	2227.4	2270.9	2309.7
17.5°	1987.2	1998.3	2035.3	2097.2	2169.2	2241.3	2257.9	2289.3	2322.6	2356.8	2393.7
20°	2066.7	2075.9	2123.0	2199.7	2284.7	2350.3	2366.9	2394.7	2410.4	2427.9	2459.3
22.5°	2146.1	2159.1	2212.7	2303.2	2403.0	2474.1	2487.1	2512.9	2501.8	2496.3	2516.6
25°	2245.0	2262.6	2315.2	2414.1	2515.7	2603.5	2613.6	2635.8	2617.3	2588.7	2587.8
27.5°	2367.9	2383.6	2438.1	2539.7	2640.4	2731.9	2751.3	2780.8	2740.2	2705.1	2680.1
30°	2513.8	2524.0	2584.1	2692.2	2795.6	2882.5	2907.4	2937.0	2906.5	2848.3	2823.3
32.5°	2683.8	2697.7	2767.0	2880.6	2973.0	3059.9	3084.8	3121.8	3088.5	3022.9	2991.5
35°	2888.0	2901.9	2974.9	3098.7	3192.9	3282.5	3300.1	3330.5	3289.0	3213.2	3188.3
37.5°	3109.7	3127.3	3219.7	3337.0	3435.9	3540.3	3541.2	3550.4	3491.3	3397.1	3369.3
40°	3359.2	3382.3	3474.7	3596.6	3715.8	3800.8	3799.9	3774.0	3674.2	3528.3	3485.8
42.5°	3605.9	3624.3	3717.6	3843.3	3962.5	4042.8	4018.8	3956.0	3811.9	3613.2	3556.9
45°	3784.2	3798.0	3896.0	4037.3	4158.3	4208.2	4164.8	4089.0	3894.1	3666.8	3583.7
47.5°	3868.2	3886.7	3985.6	4126.0	4262.7	4291.4	4239.6	4168.5	3942.1	3716.7	3604.9
50°	3823.0	3847.0	3958.8	4089.0	4243.3	4302.5	4265.5	4194.4	3993.0	3765.7	3642.8
52.5°	3705.6	3728.7	3870.1	4028.1	4202.7	4320.0	4319.1	4260.9	4051.2	3779.5	3644.7
55°	3304.7	3349.9	3569.8	3842.4	4152.8	4371.7	4393.9	4332.0	4060.4	3783.2	3664.1
57.5°	2150.8	2230.2	2439.0	2793.8	3416.5	3976.3	4126.0	4140.8	3993.9	3767.5	3667.8
60°	898.0	961.7	1127.1	1362.7	1877.3	2543.4	2833.5	3124.5	3475.6	3603.1	3633.6
62.5°	558.0	563.6	580.2	633.8	805.6	1130.8	1317.4	1590.0	2112.0	2556.3	2761.4
65°	503.5	506.3	510.0	506.3	514.6	554.3	604.2	699.4	911.9	1132.7	1395.0
67.5°	443.5	447.2	449.9	447.2	449.9	451.8	457.3	465.6	504.4	535.8	559.9
70°	358.5	364.0	368.6	366.8	377.9	377.9	383.4	389.9	409.3	432.4	449.0
72.5°	273.5	268.8	274.4	276.2	286.4	291.9	300.3	307.6	329.8	343.7	364.9
75°	177.4	172.8	181.1	185.7	199.6	206.9	214.3	221.7	237.4	246.7	267.0
77.5°	96.1	95.2	103.5	109.9	124.7	134.0	139.5	145.0	158.0	160.8	173.7
80°	55.4	55.4	61.0	65.6	74.8	85.0	90.5	95.2	104.4	107.2	112.7
82.5°	30.5	30.5	33.3	36.0	43.4	49.0	53.6	57.3	65.6	68.4	71.1
85°	14.8	13.9	15.7	17.6	20.3	23.1	25.9	27.7	34.2	36.0	39.7
87.5°	1.8	1.8	1.8	2.8	3.7	5.5	6.5	6.5	10.2	12.0	13.9
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: P634012
CATALOG NUMBER: GWS-SA2F-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9
2.5°	1900.4	1888.4	1895.8	1898.5	1898.5	1895.8	1883.8	1880.1	1874.5	1866.2	1866.2
5°	1942.9	1933.7	1935.5	1930.9	1919.8	1905.9	1883.8	1872.7	1863.4	1853.3	1852.4
7.5°	2015.9	2003.9	2002.0	1984.5	1954.9	1925.3	1892.1	1871.8	1857.9	1845.0	1844.0
10°	2111.0	2100.0	2086.1	2051.0	2007.6	1964.1	1918.9	1891.2	1870.8	1852.4	1851.4
12.5°	2217.3	2204.3	2178.5	2126.7	2072.2	2029.7	1978.0	1935.5	1905.0	1880.1	1875.5
15°	2332.8	2314.3	2269.9	2209.0	2155.4	2110.1	2054.7	1993.7	1947.5	1907.8	1903.2
17.5°	2421.5	2397.4	2349.4	2292.1	2247.8	2202.5	2130.4	2053.8	1987.2	1937.4	1930.0
20°	2482.4	2463.0	2408.5	2366.0	2340.2	2300.4	2216.4	2129.5	2054.7	1991.9	1988.2
22.5°	2538.8	2515.7	2462.1	2437.2	2437.2	2410.4	2330.0	2227.4	2139.7	2066.7	2057.5
25°	2602.5	2577.6	2536.9	2534.2	2547.1	2535.1	2438.1	2328.1	2225.6	2143.4	2128.6
27.5°	2691.2	2663.5	2639.5	2656.1	2674.6	2661.7	2553.6	2426.1	2318.0	2234.8	2221.9
30°	2832.6	2798.4	2776.2	2796.5	2832.6	2794.7	2677.4	2542.5	2433.5	2342.0	2335.5
32.5°	2997.0	2958.2	2935.1	2967.5	2999.8	2940.7	2824.3	2694.9	2580.4	2484.3	2473.2
35°	3194.7	3145.8	3111.6	3155.0	3188.3	3130.1	3014.6	2891.7	2764.2	2664.4	2649.7
37.5°	3370.3	3311.1	3288.0	3349.0	3393.4	3355.5	3229.8	3114.4	2974.9	2865.8	2859.4
40°	3497.8	3439.6	3422.9	3523.6	3601.2	3592.0	3479.3	3347.2	3216.0	3090.3	3078.3
42.5°	3553.2	3512.5	3516.2	3652.1	3772.2	3831.3	3730.6	3589.2	3462.7	3332.4	3324.1
45°	3565.2	3540.3	3569.8	3739.8	3897.8	4018.8	3932.9	3814.7	3671.5	3545.8	3542.1
47.5°	3578.1	3564.3	3609.6	3789.7	3977.3	4117.7	4069.6	3947.7	3802.6	3679.8	3670.5
50°	3608.6	3603.1	3653.9	3824.8	4015.1	4144.5	4090.0	3968.9	3820.2	3699.2	3677.0
52.5°	3617.9	3608.6	3681.6	3879.3	4078.0	4143.5	4026.2	3868.2	3718.6	3583.7	3560.6
55°	*3646.5*	*3629.9*	*3679.8*	*3899.6*	*4164.8*	*4197.1*	*4022.5*	*3786.0*	*3577.2*	*3393.4*	*3338.9*
57.5°	3653.9	3635.4	3667.8	3866.4	4070.6	4041.9	3535.6	3055.2	2661.7	2457.5	2480.6
60°	3614.2	3619.7	3564.3	3542.1	3264.9	2882.5	2164.6	1730.4	1359.0	1202.0	1236.1
62.5°	2751.3	2774.4	2585.0	2247.8	1728.6	1370.1	906.3	704.0	595.9	568.2	572.8
65°	1388.6	1420.0	1223.2	1011.6	752.0	607.9	525.7	509.1	503.5	497.0	497.0
67.5°	549.7	558.9	551.5	516.4	480.4	467.5	463.8	461.9	455.5	451.8	452.7
70°	441.6	449.0	437.9	415.7	401.0	400.0	398.2	394.5	389.9	389.9	392.6
72.5°	360.3	367.7	352.0	338.1	327.0	318.7	314.1	311.3	304.9	304.9	307.6
75°	265.2	269.8	256.8	255.0	243.0	234.7	227.3	223.6	215.3	211.6	214.3
77.5°	176.5	175.5	169.1	169.1	164.4	154.3	146.0	137.7	126.6	119.2	121.0
80°	114.6	114.6	111.8	111.8	107.2	98.9	88.7	80.4	73.9	68.4	68.4
82.5°	73.0	72.1	71.1	70.2	68.4	60.1	52.7	47.1	42.5	38.8	39.7
85°	40.7	40.7	38.8	38.8	35.1	30.5	26.8	23.1	20.3	19.4	19.4
87.5°	13.9	13.9	12.9	12.9	11.1	8.3	6.5	5.5	4.6	3.7	4.6
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

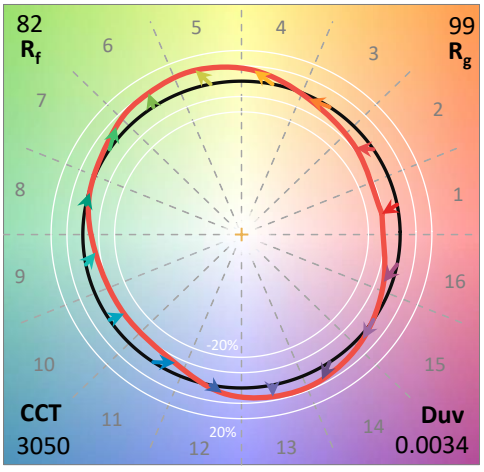
Test Information

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

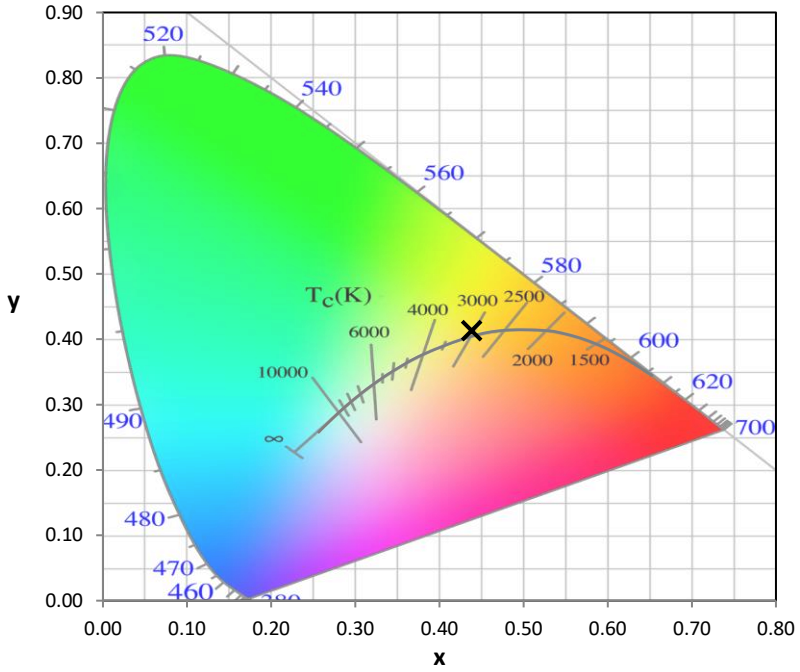
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

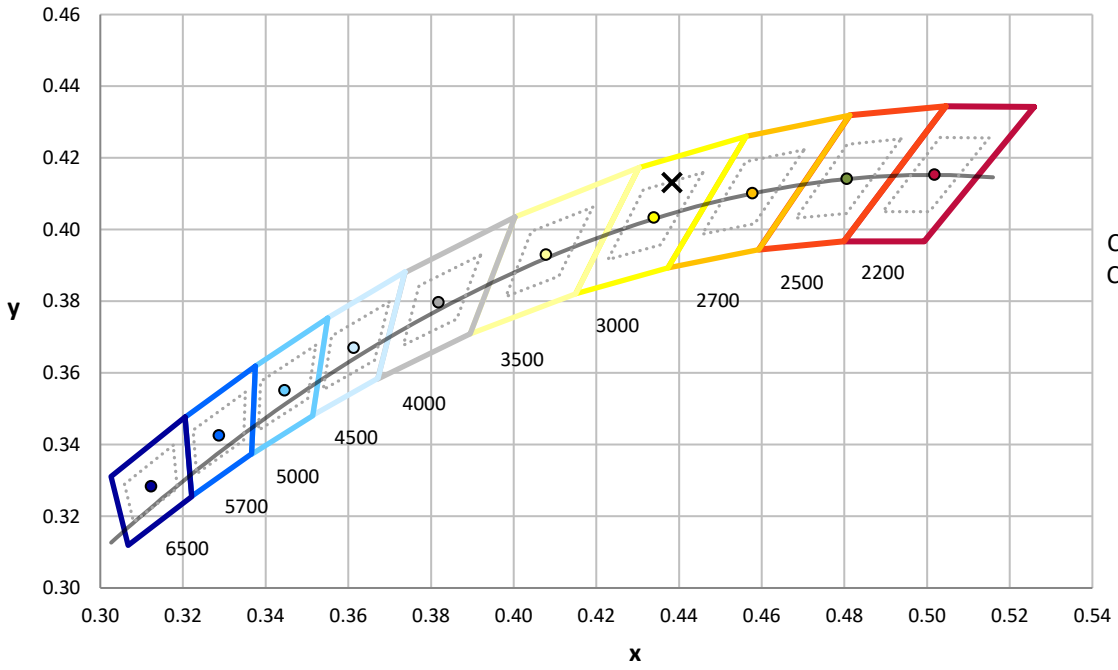
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

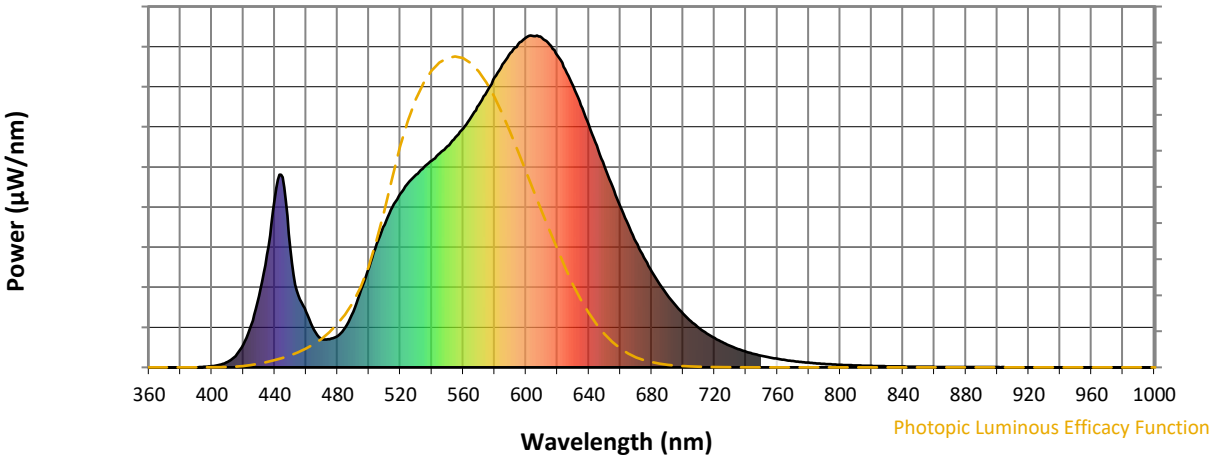


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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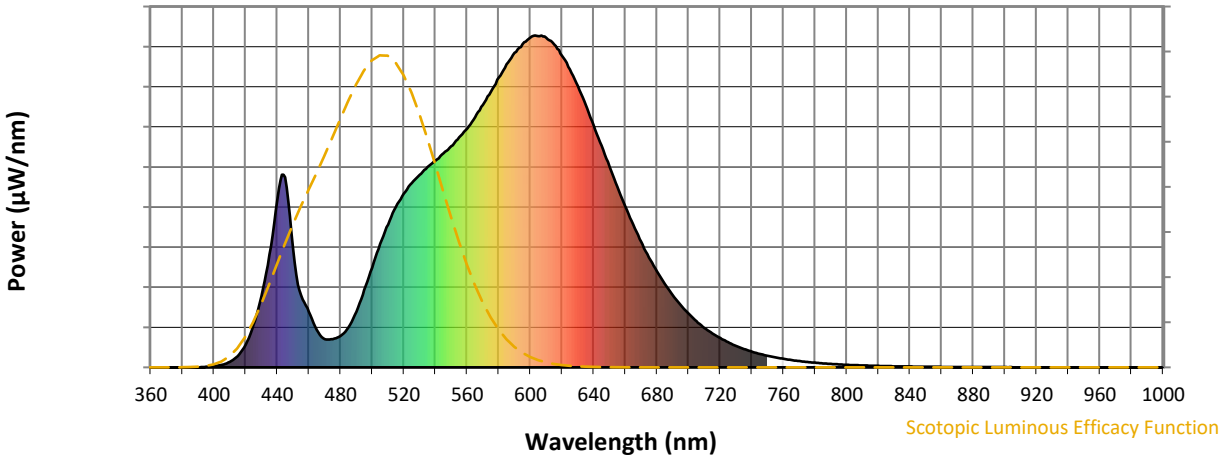
Scotopic Flux vs. Wavelength



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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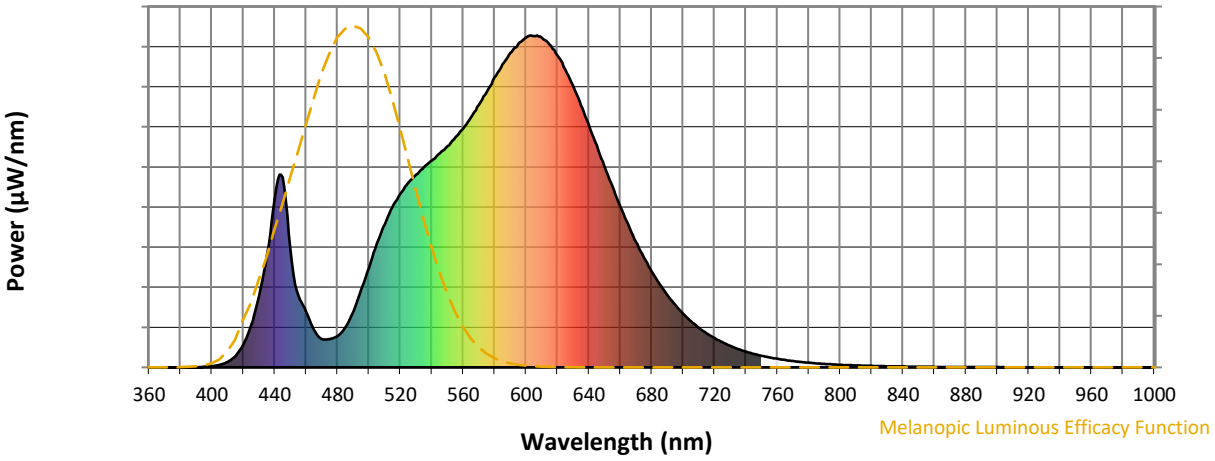
Melanopic Flux vs. Wavelength



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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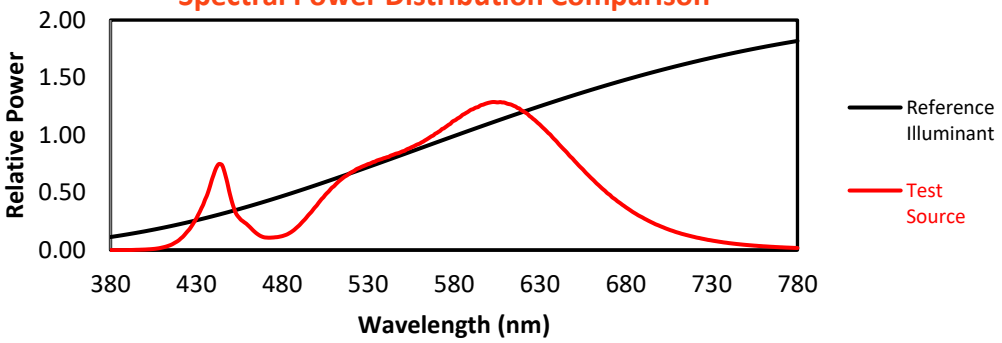
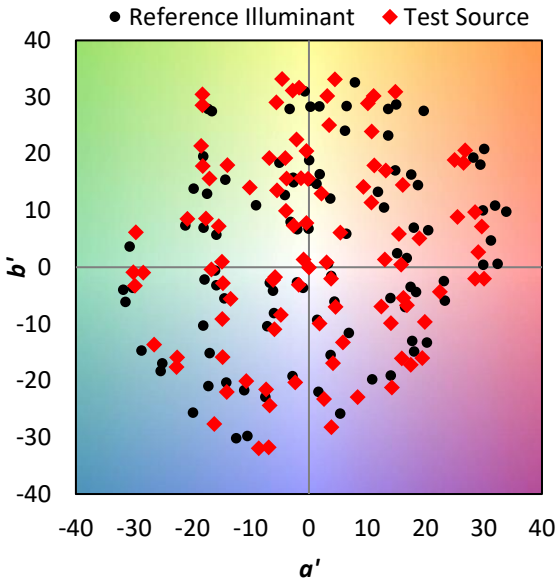
Summary

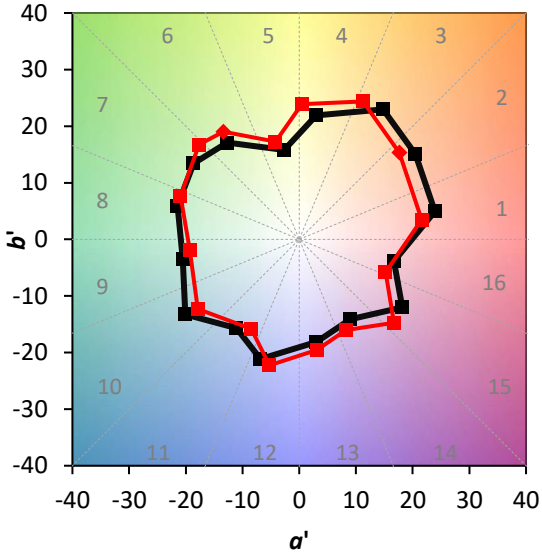
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

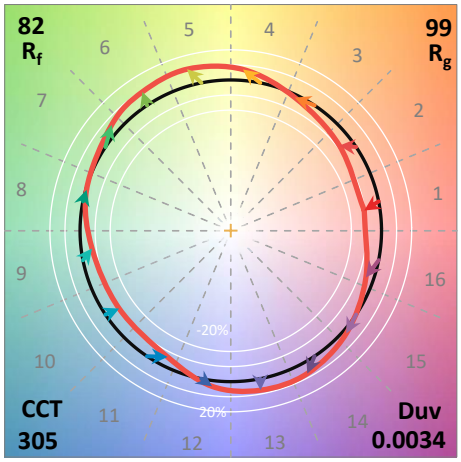
Spectral Power Distribution Comparison

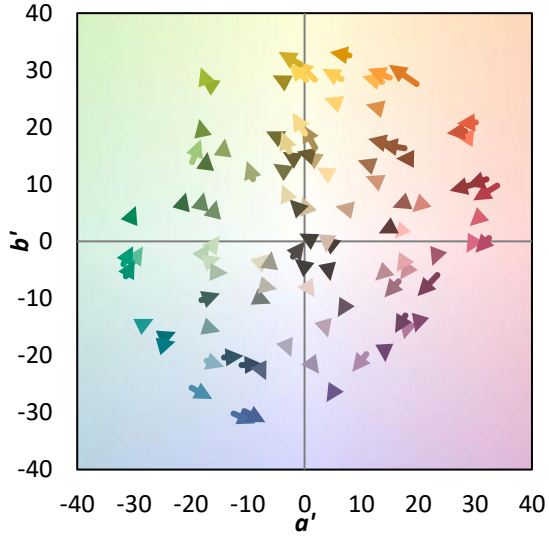


Color Vector Graphics









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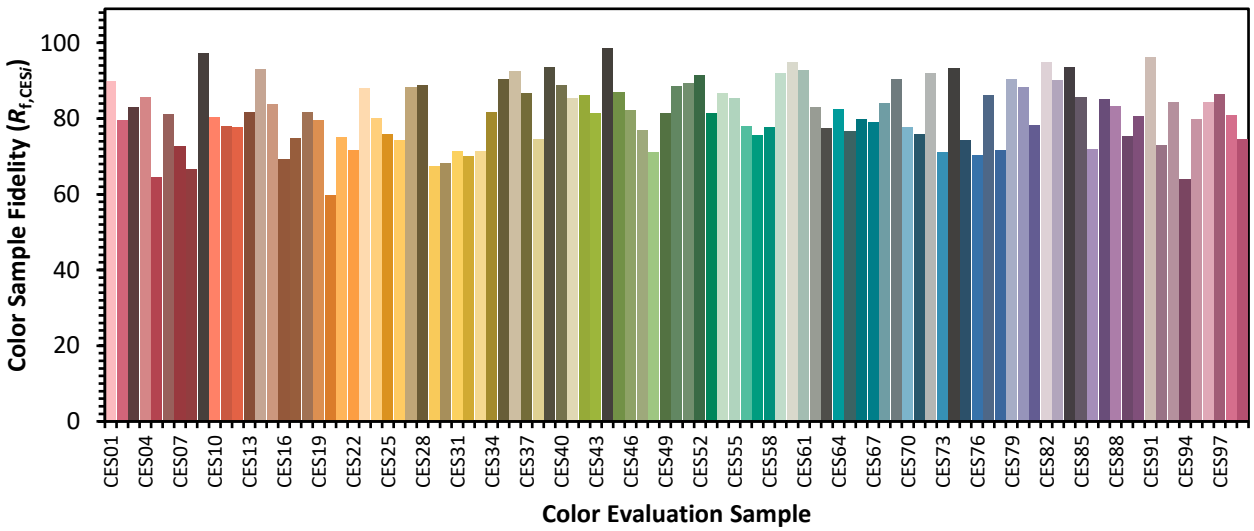
Individual Sample Fidelity Index ($R_{f,i}$)

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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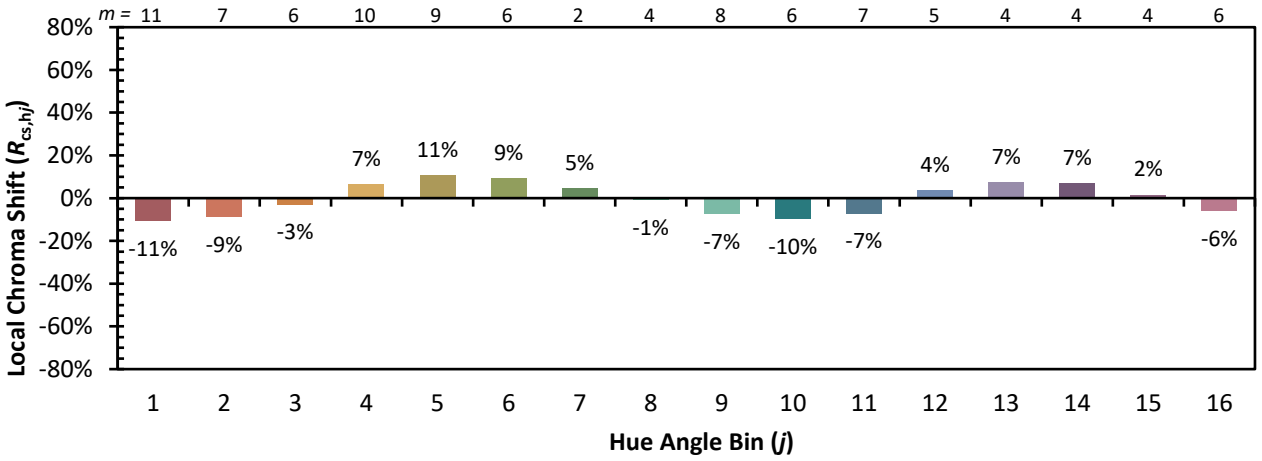
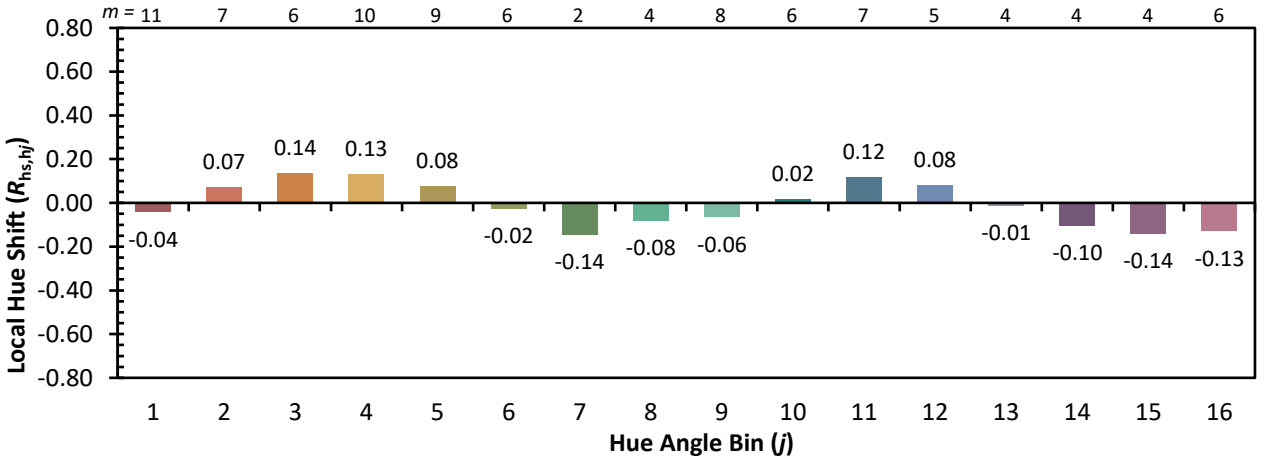
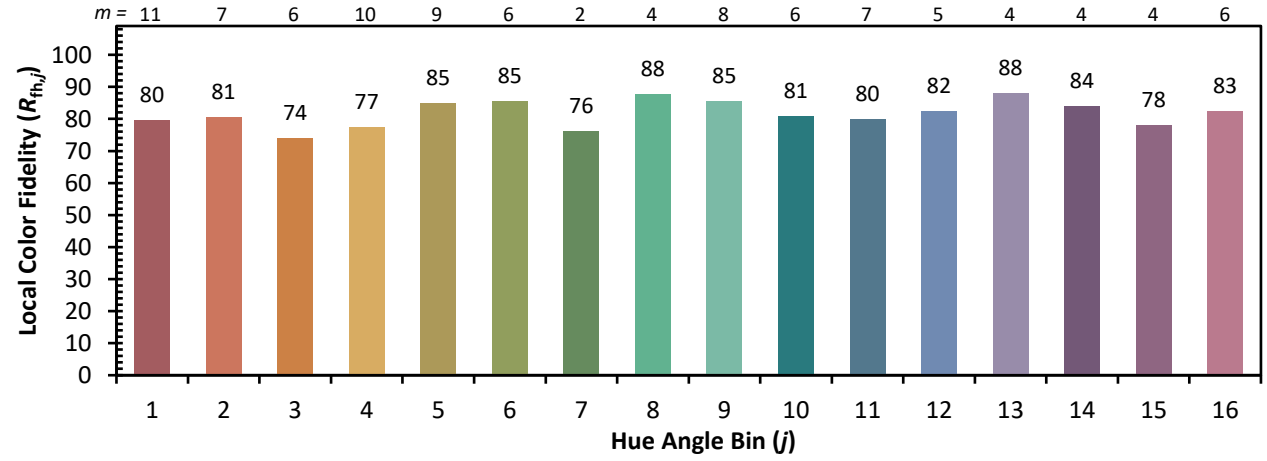
Color Rendition by Hue-Angle Bin







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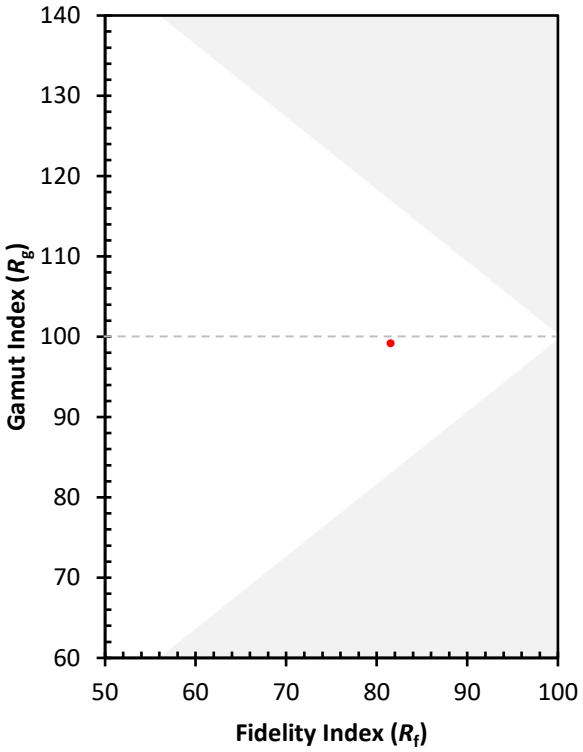
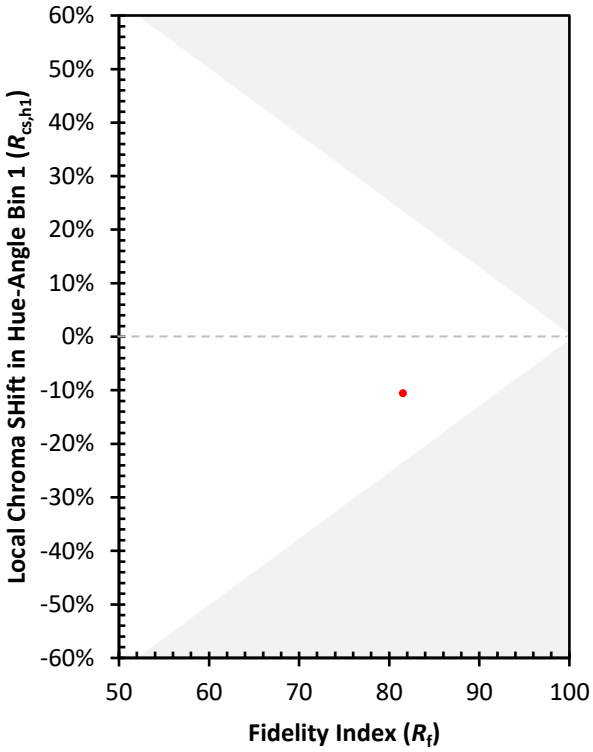
Measure Comparisons





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