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: P641952

Luminaire Tested: GWS-SA6B-830-U-T1-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:	P641952
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6B-830-U-T1-W
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16788.5 lumens
Efficiency:	N/A
Efficacy:	120.9 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type I - Medium
BUG Rating:	B4 - U0 - G4

Input Watts (W):	138.9
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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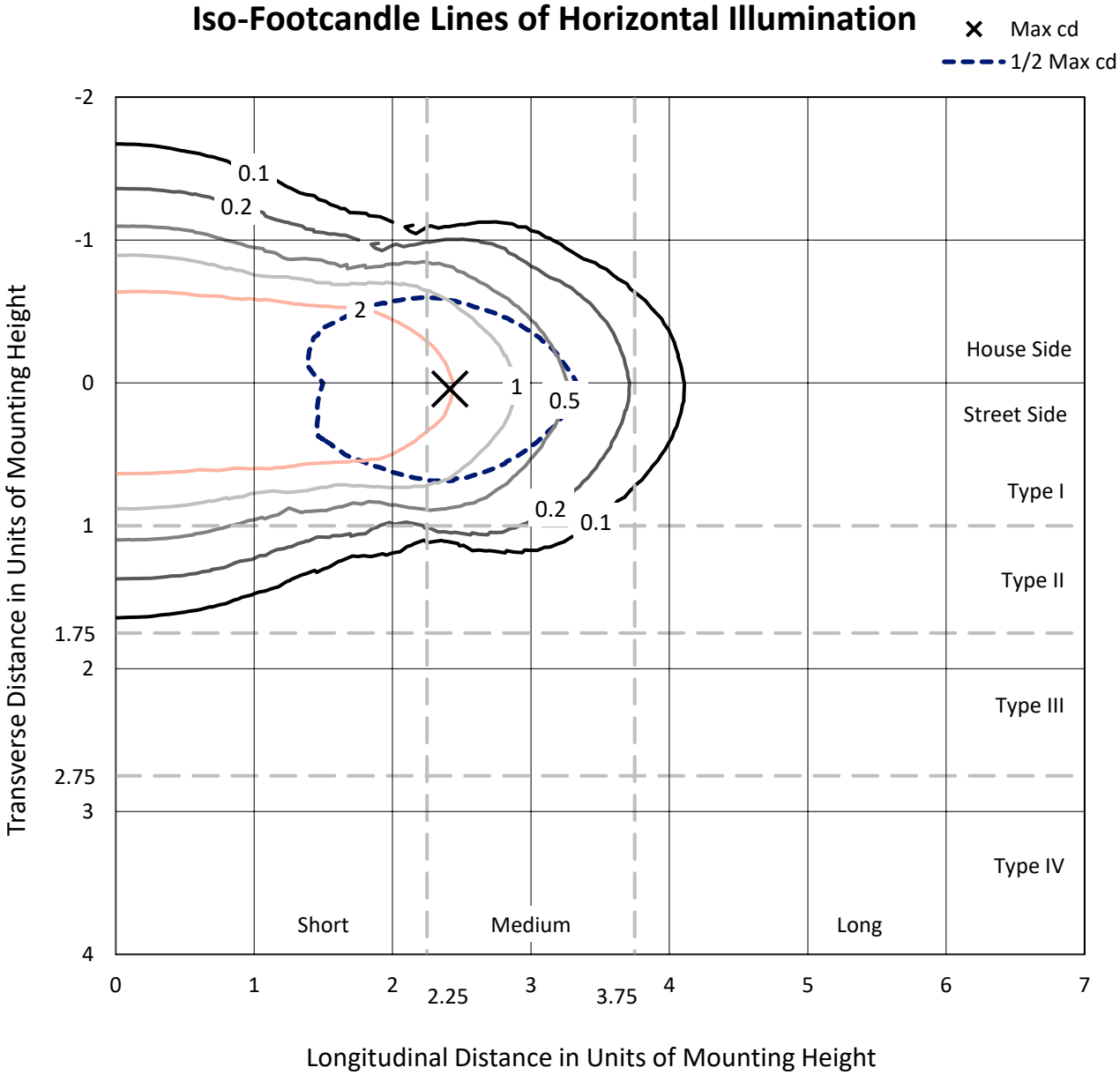
Scaled Data Report

REPORT NUMBER: P641952
CATALOG NUMBER: GWS-SA6B-830-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type I - Medium - N/A

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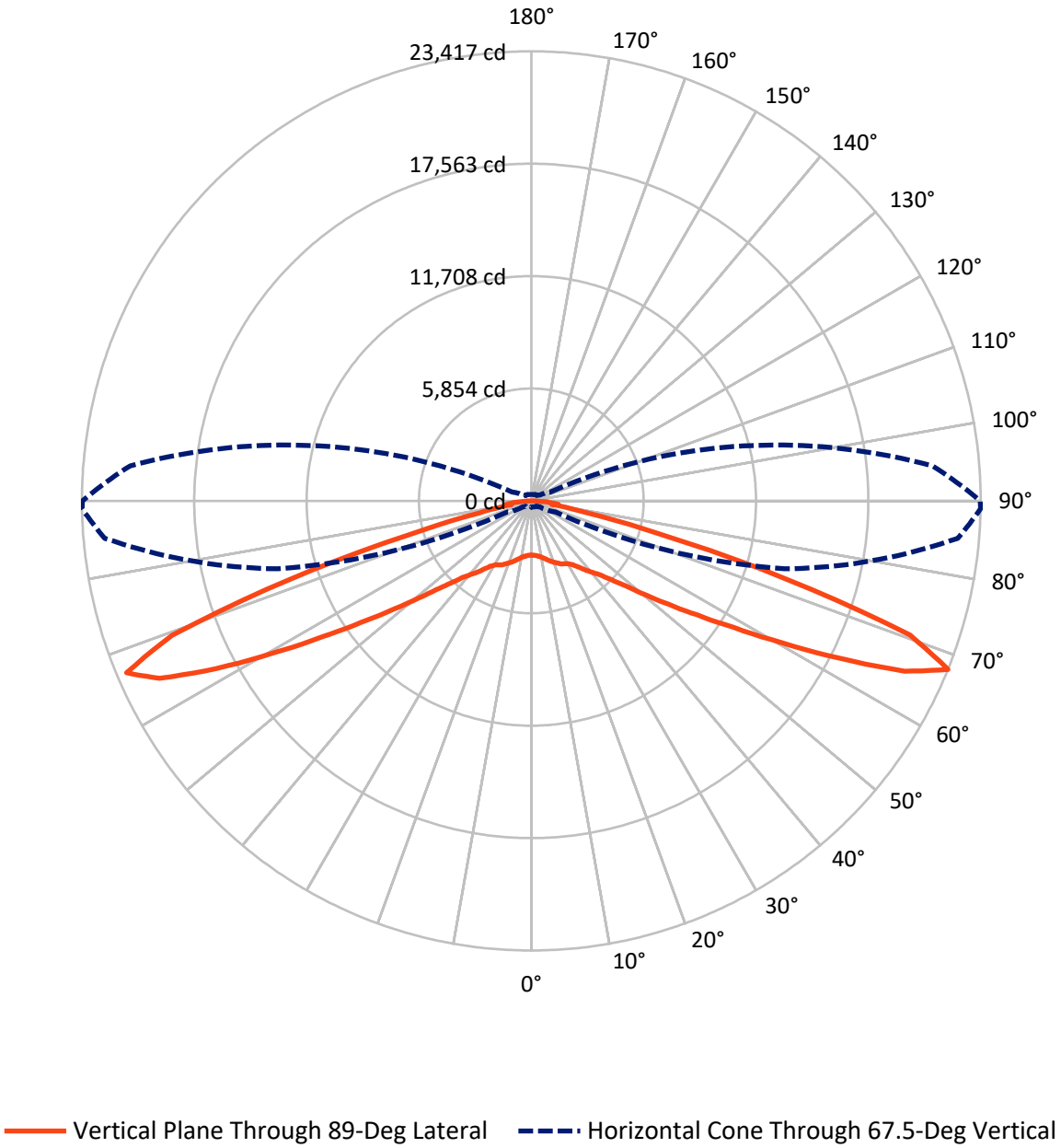
Luminous Intensity Polar Plot



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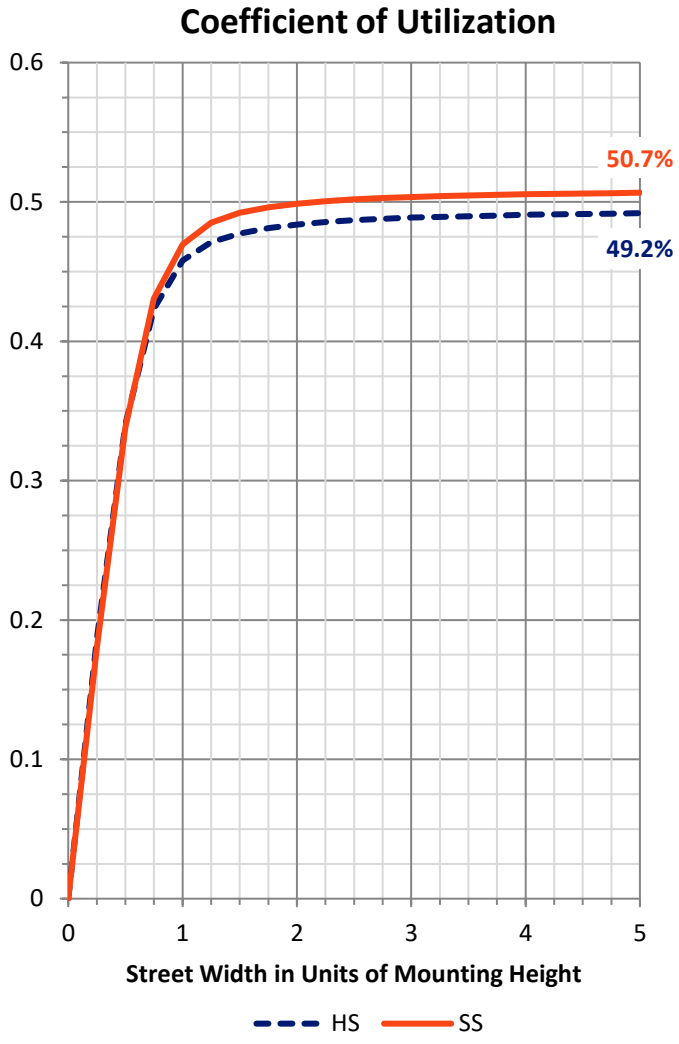
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8320.7	0.0	8320.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8467.8	0.0	8467.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	16788.5	0.0	16788.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.6	1.7
10°-20°	920.3	5.5
20°-30°	1555.8	9.3
30°-40°	2135.1	12.7
40°-50°	2722.8	16.2
50°-60°	3416.1	20.3
60°-70°	4120.1	24.5
70°-80°	1490.5	8.9
80°-90°	144.9	0.9
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°	16788.5	100.0
0°-180°	16788.5	100.0



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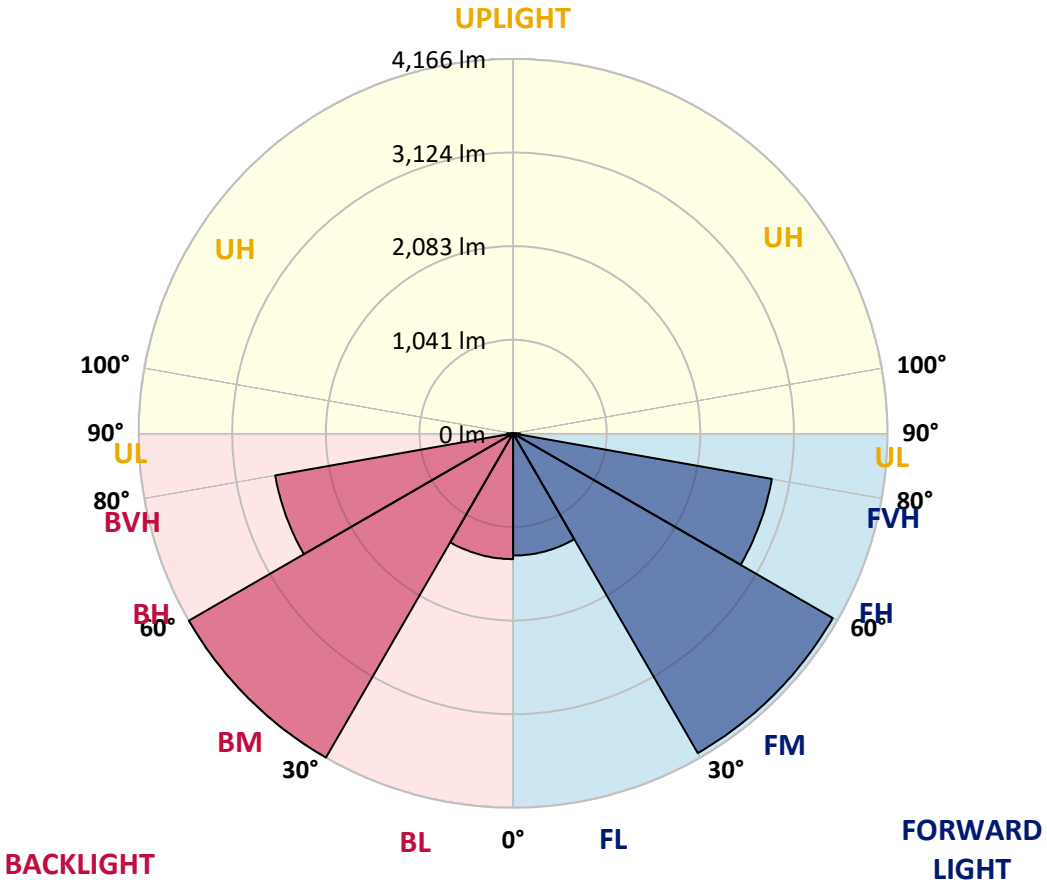
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1359.7	8.1			
FM	(30°-60°)	4108.5	24.5			
FH	(60°-80°)	2923.1	17.4			G2/5000
FVH	(80°-90°)	76.5	0.5			G1/100
BL	(0°-30°)	1399.1	8.3	B3/2500		
BM	(30°-60°)	4165.6	24.8	B3/5000		
BH	(60°-80°)	2687.6	16.0	B4/5000		G4/5000
BVH	(80°-90°)	68.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
Type I Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	*2817.8*
2.5°	2826.3	2823.8	2817.8	2835.9	2832.3	2833.5	2840.7	2835.9	2827.5	2813.0	*2833.5*
5°	2905.8	2904.6	2891.4	2902.2	2890.2	2881.7	2880.5	2868.5	2858.8	2843.1	*2864.8*
7.5°	2983.0	2981.8	2970.9	2990.2	2980.6	2970.9	2960.1	2936.0	2913.1	2890.2	*2914.3*
10°	3042.1	3040.9	3038.5	3066.2	3068.6	3072.2	3067.4	3026.4	2986.6	2958.9	*2983.0*
12.5°	3075.8	3079.5	3085.5	3136.1	3161.5	3185.6	3191.6	3157.8	3091.5	3051.7	*3080.7*
15°	3052.9	3060.2	3090.3	3181.9	3251.9	3306.1	3329.0	3301.3	3215.7	3149.4	*3181.9*
17.5°	2943.2	2949.2	3008.3	3148.2	3302.5	3427.9	3465.3	3448.4	3353.2	3272.4	*3303.7*
20°	2791.3	2804.6	2868.5	3063.8	3294.1	3512.3	3612.4	3606.4	3502.7	3378.5	*3415.9*
22.5°	2653.8	2669.5	2737.0	2952.9	3237.4	3534.0	3760.7	3776.4	3638.9	3484.6	*3514.7*
25°	2499.5	2514.0	2600.8	2821.4	3139.7	3517.1	3887.3	3958.4	3793.3	3606.4	*3634.1*
27.5°	2341.5	2352.4	2438.0	2673.1	3011.9	3485.8	3987.4	4158.6	3945.2	3690.8	*3710.1*
30°	2202.9	2217.4	2295.7	2524.8	2872.1	3423.1	4069.4	4372.0	4120.0	3786.0	*3801.7*
32.5°	2069.0	2081.1	2166.7	2378.9	2723.8	3326.6	4142.9	4622.8	4379.2	3963.3	*3963.3*
35°	1900.2	1921.9	2018.4	2239.1	2583.9	3198.8	4196.0	4914.6	4733.7	4224.9	*4226.1*
37.5°	1744.7	1756.8	1858.0	2081.1	2436.8	3054.1	4200.8	5217.2	5182.3	4557.7	*4560.1*
40°	1567.5	1583.1	1691.7	1912.3	2268.0	2902.2	4155.0	5499.4	5652.5	4900.1	*4886.9*
42.5°	1387.8	1410.7	1514.4	1730.2	2085.9	2716.5	4033.2	5768.3	6249.4	5296.8	*5264.3*
45°	1214.2	1228.6	1332.3	1536.1	1877.3	2494.7	3837.9	6026.3	6958.3	5899.7	*5852.7*
47.5°	1018.9	1024.9	1132.2	1327.5	1661.5	2247.5	3558.1	6256.6	7737.2	6697.9	*6617.1*
50°	845.2	853.7	938.1	1105.7	1397.5	1954.5	3209.7	6391.6	8729.6	7786.7	*7646.8*
52.5°	683.7	692.1	759.6	893.5	1155.1	1620.5	2778.0	6360.3	9736.4	9138.3	*8934.5*
55°	552.2	558.3	604.1	709.0	909.1	1288.9	2268.0	6079.3	10854.1	10903.5	*10464.6*
57.5°	466.6	469.0	500.4	564.3	710.2	993.5	1750.7	5416.2	12026.1	13155.8	*12434.8*
60°	417.2	418.4	432.9	472.7	560.7	758.4	1282.9	4360.0	13240.2	15973.6	*14984.9*
62.5°	385.8	385.8	397.9	420.8	465.4	583.6	942.9	3131.3	14112.0	19039.8	*18057.2*
65°	355.7	355.7	364.1	383.4	407.5	476.3	707.8	2019.6	14540.0	21603.2	*21385.0*
67.5°	*317.1*	*318.3*	*324.3*	*344.8*	*366.5*	*397.9*	*536.6*	*1366.1*	*13651.4*	*22312.2*	*23416.7*
70°	280.9	282.1	290.6	303.8	321.9	343.6	419.6	941.7	9936.5	18582.9	*20937.7*
72.5°	241.1	246.0	252.0	266.5	277.3	293.0	342.4	610.1	5781.5	11953.7	*13840.7*
75°	197.7	203.8	211.0	225.5	232.7	238.7	282.1	435.3	2781.6	6057.6	*6898.0*
77.5°	153.1	159.2	167.6	180.9	185.7	192.9	215.8	314.7	1332.3	2685.2	*2895.0*
80°	102.5	104.9	112.1	127.8	136.2	141.1	159.2	214.6	578.8	1077.9	*1068.3*
82.5°	62.7	63.9	66.3	76.0	79.6	84.4	103.7	131.4	276.1	1225.0	*1404.7*
85°	22.9	21.7	20.5	26.5	31.3	36.2	48.2	66.3	120.6	841.6	*941.7*
87.5°	0.0	0.0	0.0	1.2	2.4	2.4	4.8	9.6	28.9	314.7	*215.8*
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: P641952
CATALOG NUMBER: GWS-SA6B-830-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8
2.5°	2827.5	2814.2	2831.1	2843.1	2869.7	2879.3	2881.7	2873.3	2873.3	2858.8	2861.2
5°	2860.0	2851.6	2879.3	2899.8	2938.4	2952.9	2962.5	2956.5	2960.1	2950.4	2952.9
7.5°	2909.5	2902.2	2950.4	2990.2	3030.0	3046.9	3055.3	3050.5	3051.7	3039.7	3043.3
10°	2978.2	2980.6	3038.5	3090.3	3143.4	3160.2	3163.9	3149.4	3137.3	3115.6	3116.8
12.5°	3072.2	3084.3	3166.3	3224.1	3278.4	3302.5	3276.0	3222.9	3173.5	3136.1	3131.3
15°	3174.7	3196.4	3314.6	3388.1	3447.2	3435.2	3356.8	3237.4	3139.7	3084.3	3073.4
17.5°	3297.7	3330.3	3478.6	3566.6	3617.2	3540.1	3376.1	3197.6	3061.4	2986.6	2972.1
20°	3413.5	3465.3	3652.2	3766.7	3772.8	3599.1	3367.6	3116.8	2945.6	2854.0	2834.7
22.5°	3519.6	3585.9	3834.3	3980.1	3901.8	3625.7	3315.8	3002.3	2805.8	2698.4	2681.6
25°	3635.3	3729.4	4046.5	4182.7	4030.8	3614.8	3207.3	2860.0	2637.0	2527.2	2515.2
27.5°	3714.9	3833.0	4259.9	4390.1	4136.9	3553.3	3067.4	2704.5	2482.6	2378.9	2362.0
30°	3806.5	3957.2	4495.0	4615.6	4202.0	3462.9	2917.9	2559.8	2339.1	2227.0	2214.9
32.5°	3972.9	4162.2	4786.8	4854.3	4222.5	3350.8	2774.4	2419.9	2189.6	2077.5	2060.6
35°	4240.6	4462.4	5196.7	5120.8	4206.8	3227.8	2638.2	2255.9	2036.5	1931.6	1914.7
37.5°	4578.2	4854.3	5653.7	5360.7	4163.4	3092.7	2476.6	2118.5	1899.0	1792.9	1783.3
40°	4892.9	5232.9	6166.2	5568.1	4075.4	2926.3	2321.0	1975.0	1750.7	1638.6	1616.9
42.5°	5287.2	5739.3	6759.4	5747.8	3930.7	2727.4	2146.2	1797.8	1565.1	1463.8	1437.2
45°	5886.4	6448.3	7449.1	5920.2	3714.9	2482.6	1926.8	1581.9	1361.3	1257.6	1237.1
47.5°	6634.0	7334.5	8196.6	6022.7	3386.9	2224.6	1678.4	1354.0	1133.4	1016.4	1006.8
50°	7684.2	8623.5	8998.4	6004.6	3020.4	1918.3	1398.7	1082.8	898.3	813.9	800.6
52.5°	8963.5	10241.6	9865.4	5787.6	2630.9	1569.9	1090.0	850.0	712.6	652.3	641.5
55°	10568.3	12179.2	10778.1	5322.1	2139.0	1202.1	856.1	670.4	576.3	540.2	535.3
57.5°	12555.4	14688.3	11657.1	4538.4	1608.5	917.6	659.5	553.4	508.8	487.1	485.9
60°	15177.9	17351.8	12420.3	3526.8	1151.5	701.7	545.0	494.4	459.4	444.9	443.7
62.5°	18295.9	19770.5	12895.4	2401.8	865.7	559.5	479.9	448.5	428.0	419.6	418.4
65°	21500.8	21299.4	12668.7	1573.5	657.1	475.1	430.4	413.6	395.5	387.0	387.0
67.5°	*23393.8*	*20976.3*	*10928.8*	*1092.4*	*520.9*	*417.2*	*388.2*	*372.6*	*342.4*	*335.2*	*335.2*
70°	20720.6	16997.3	7163.3	799.4	422.0	365.3	337.6	315.9	303.8	296.6	295.4
72.5°	13704.4	11060.3	3808.9	554.6	352.1	311.1	285.8	277.3	262.9	255.6	254.4
75°	6820.9	5809.3	1952.1	400.3	293.0	249.6	238.7	235.1	223.1	213.4	211.0
77.5°	2843.1	2586.3	910.3	290.6	223.1	201.4	191.7	191.7	178.4	167.6	162.8
80°	1071.9	954.9	430.4	198.9	165.2	149.5	143.5	138.7	127.8	114.5	107.3
82.5°	1433.6	936.9	211.0	124.2	108.5	96.5	88.0	84.4	78.4	72.3	67.5
85°	928.4	665.6	95.3	63.9	54.3	41.0	36.2	33.8	30.1	26.5	24.1
87.5°	189.3	223.1	28.9	12.1	7.2	3.6	3.6	1.2	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

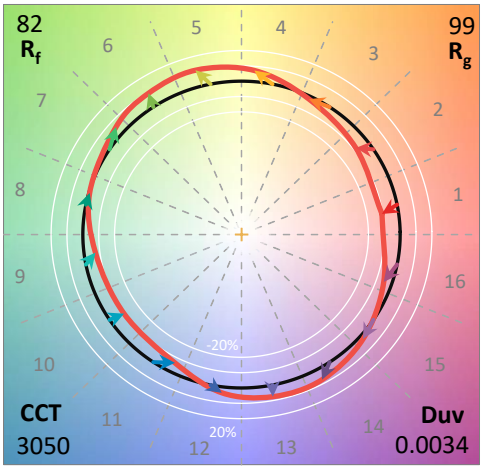
Test Information

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

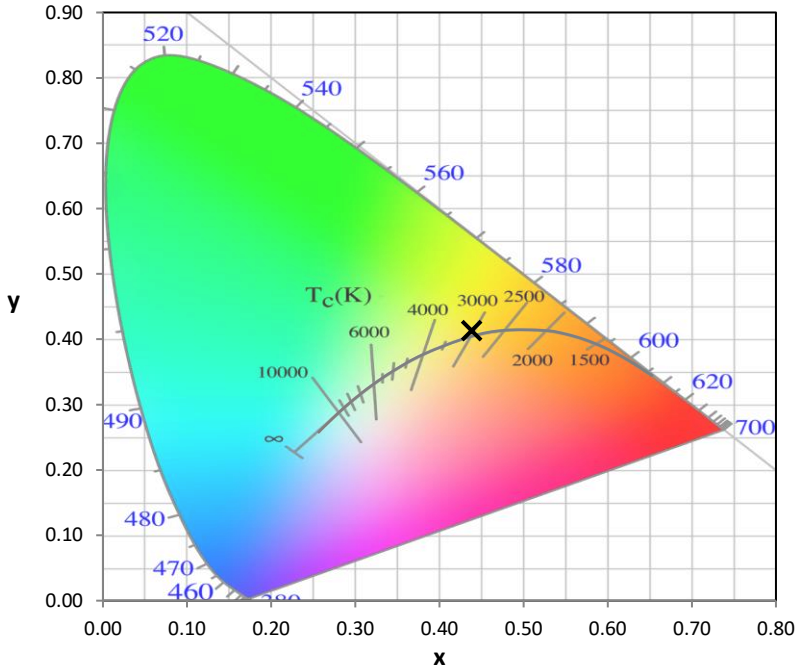
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

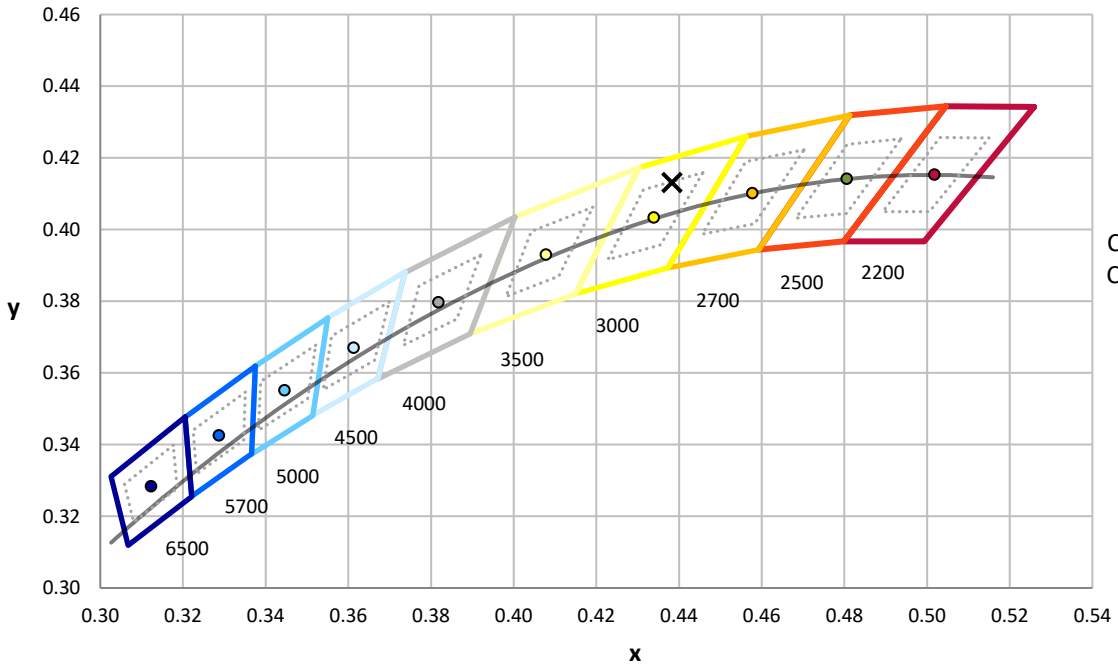
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

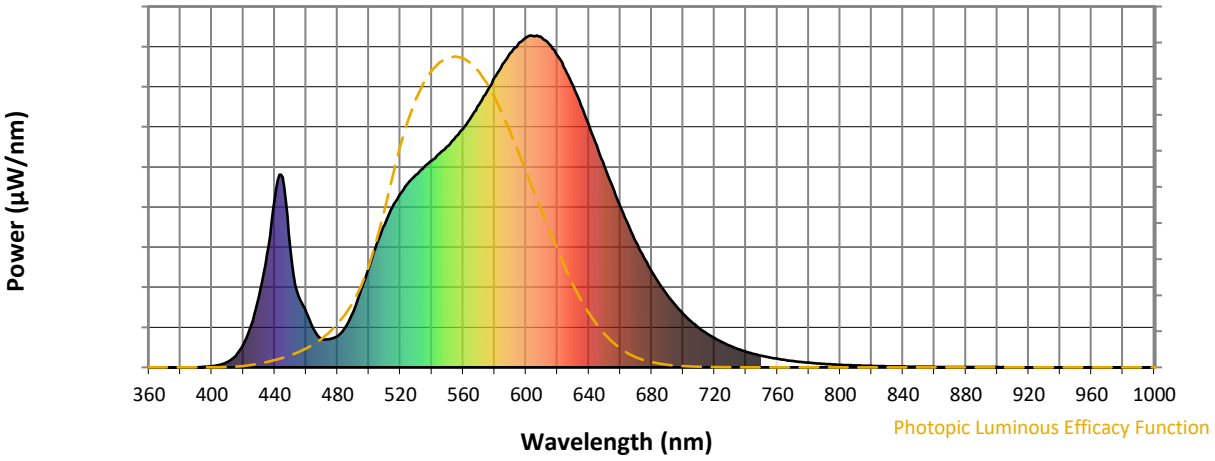


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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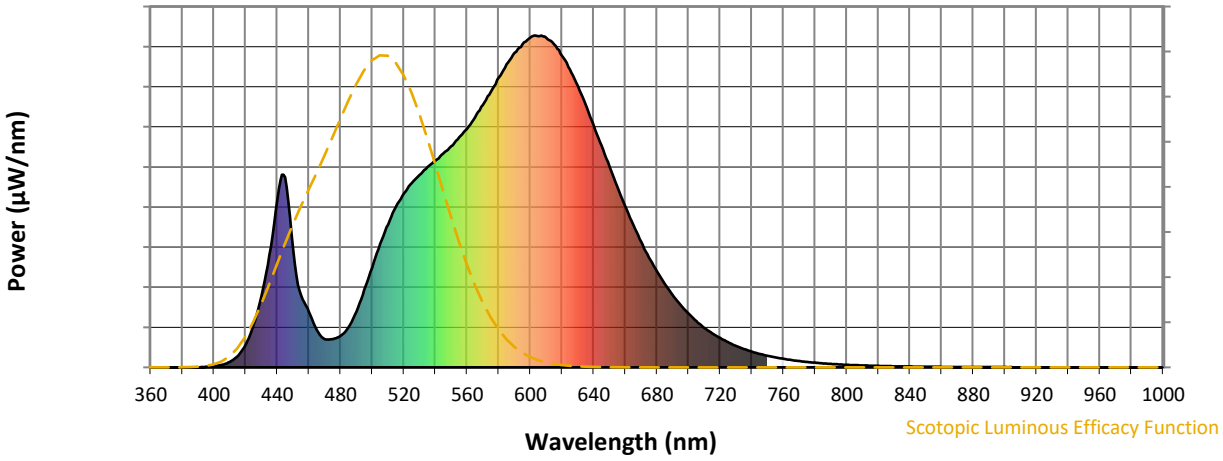
Scotopic Flux vs. Wavelength



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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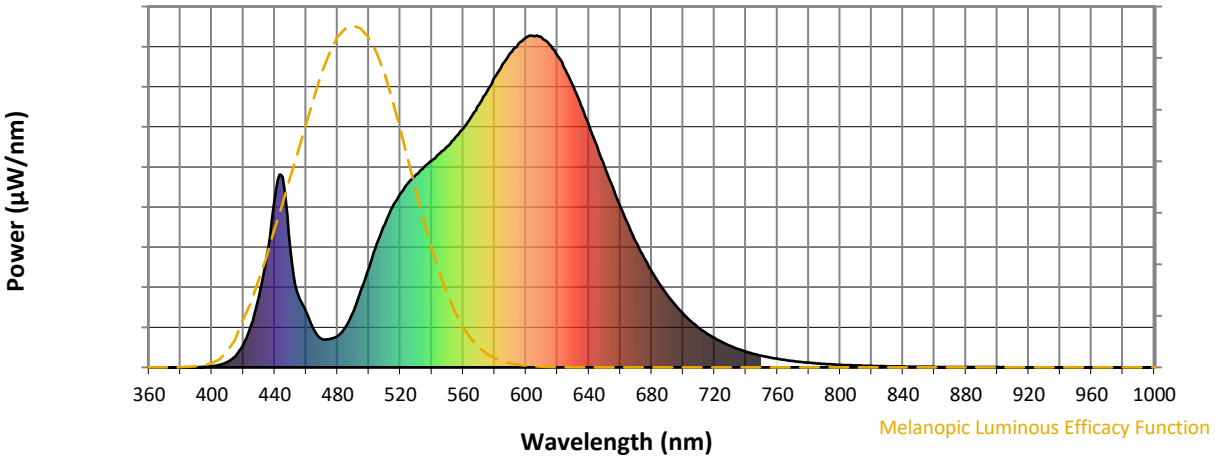
Melanopic Flux vs. Wavelength



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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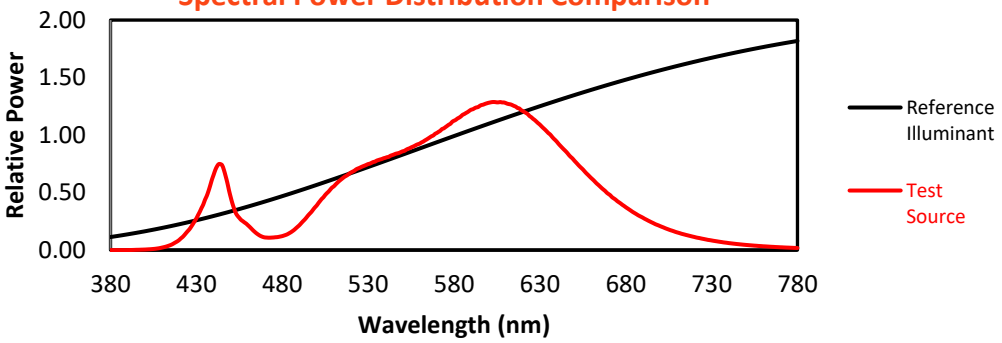
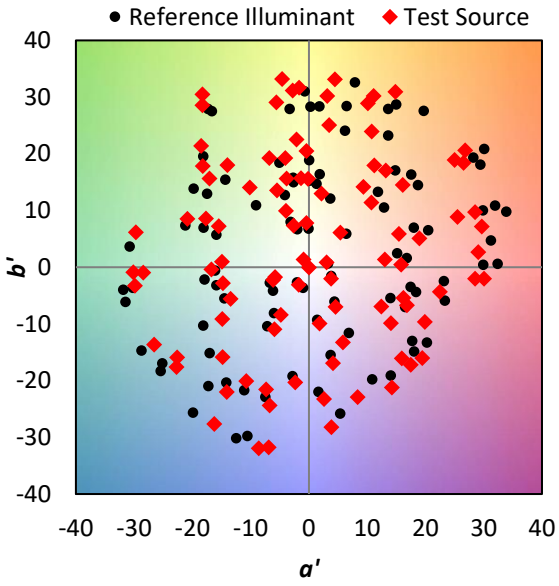
Summary

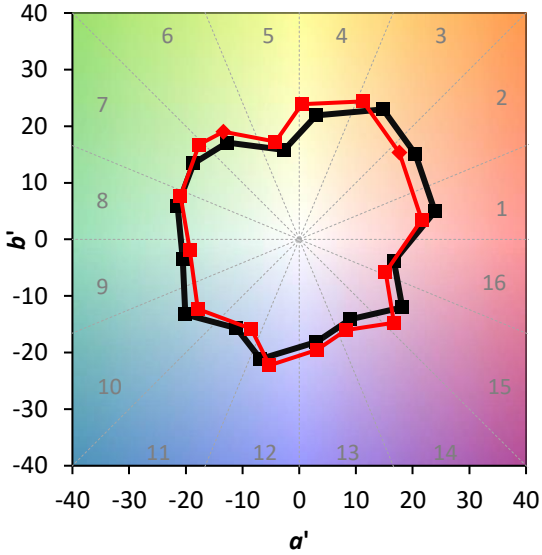
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

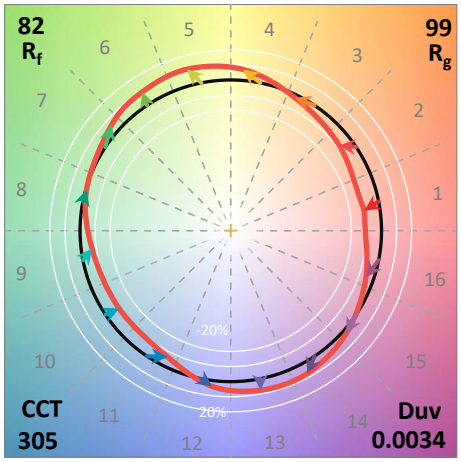
Spectral Power Distribution Comparison

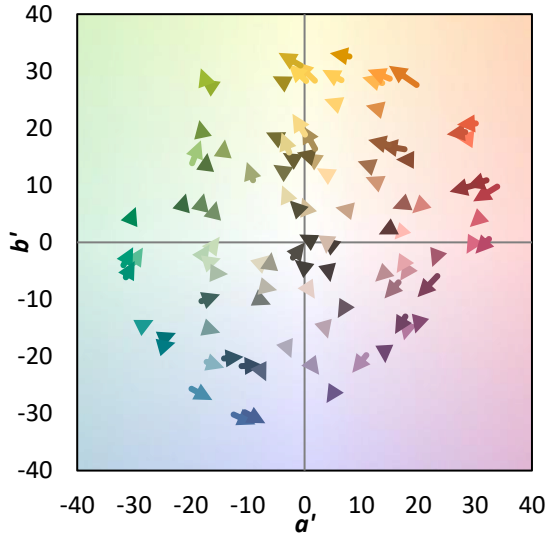


Color Vector Graphics









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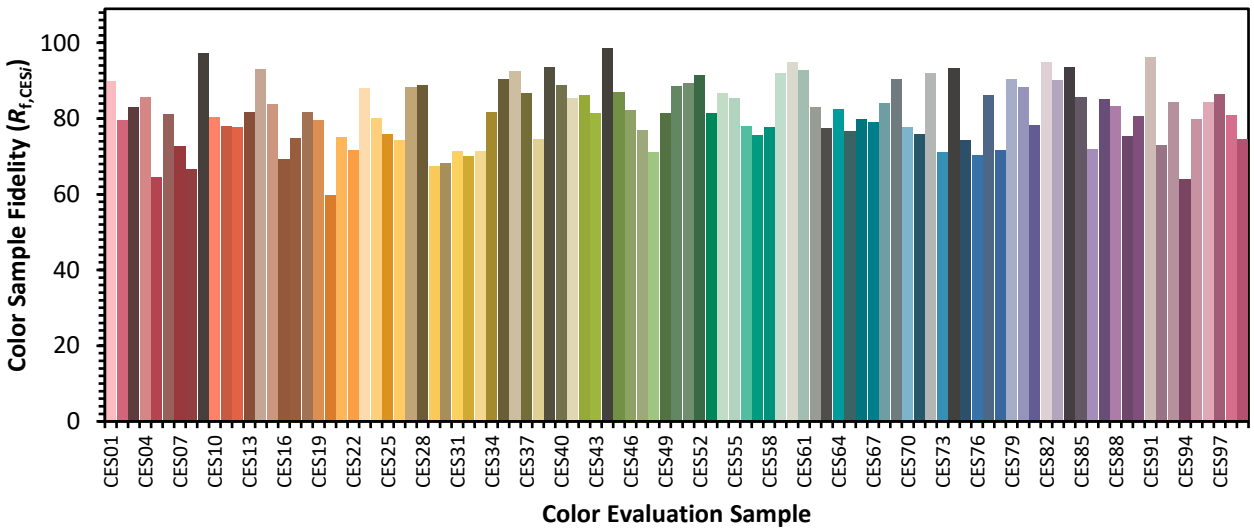
Individual Sample Fidelity Index ($R_{f,i}$)

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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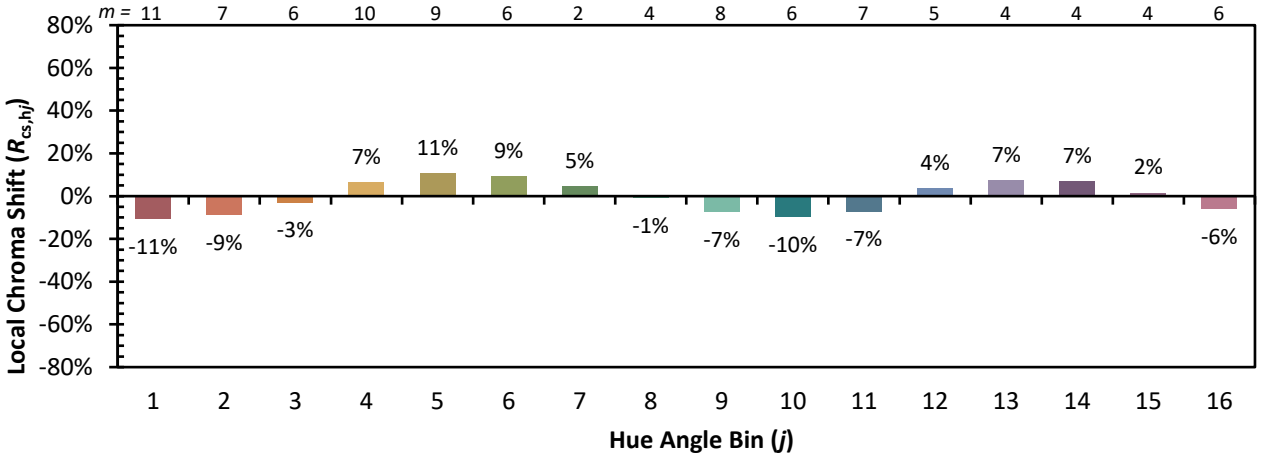
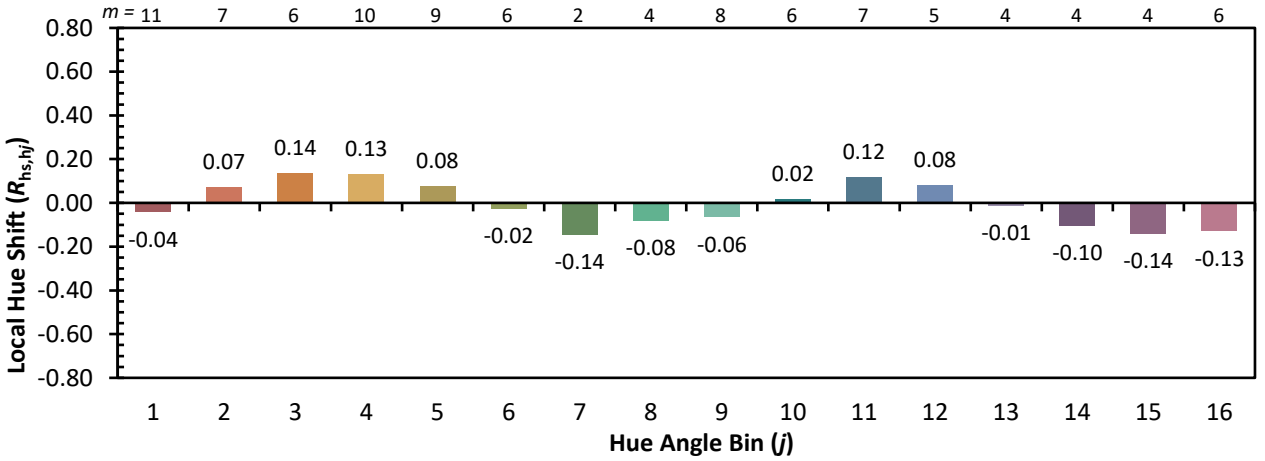
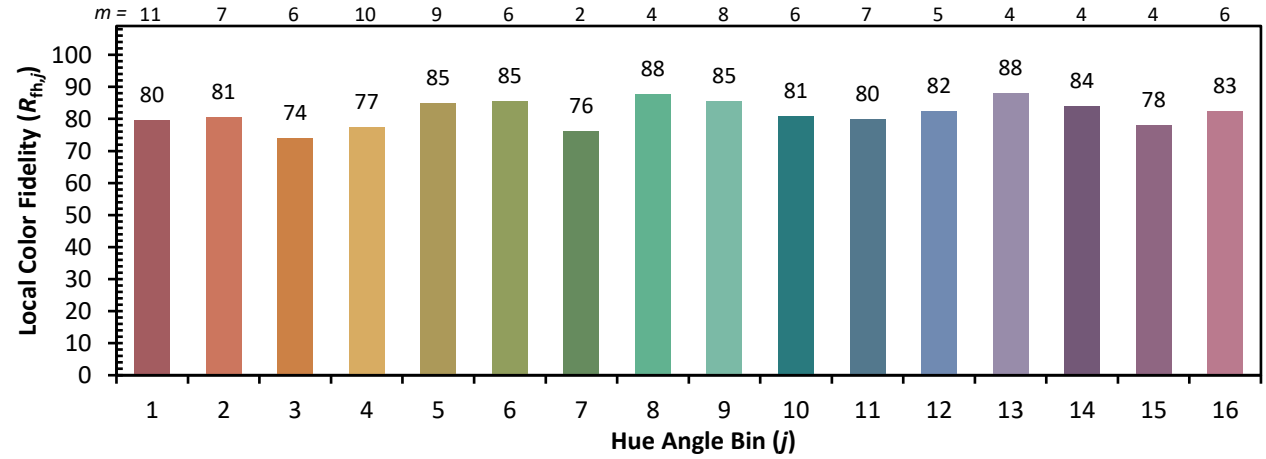
Color Rendition by Hue-Angle Bin







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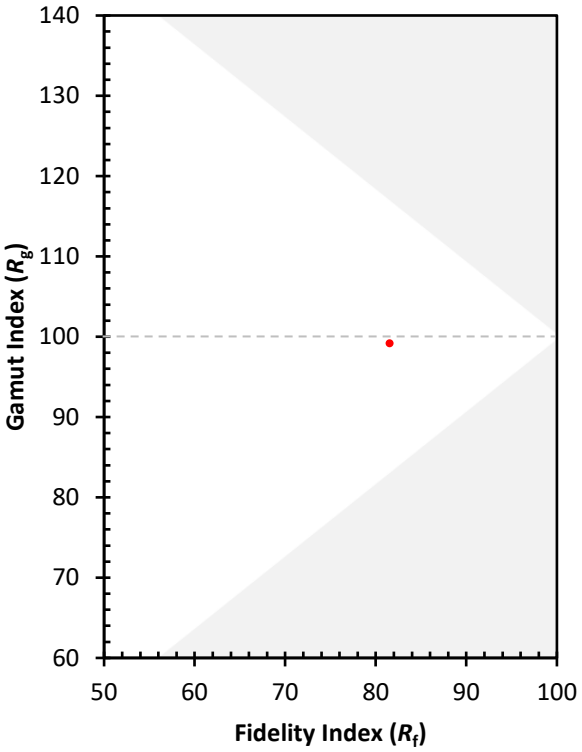
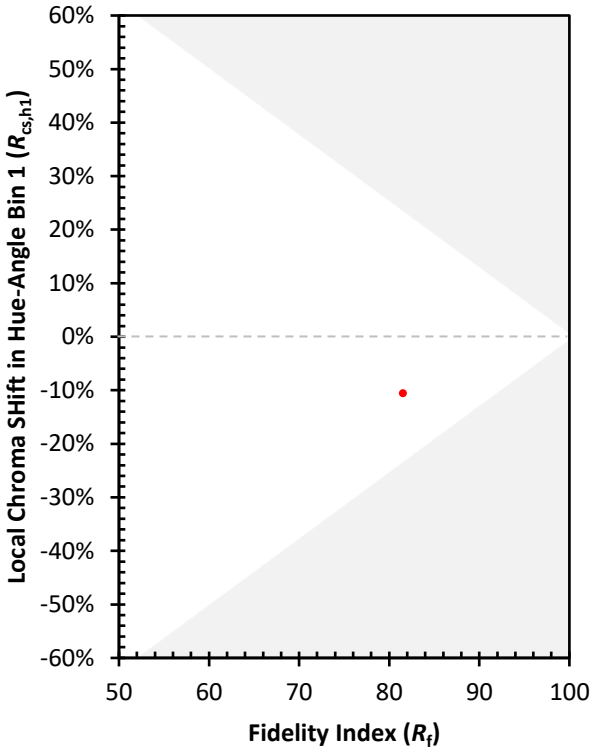
Measure Comparisons





(END OF REPORT)