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: P635005

Luminaire Tested: GWS-SA3C-830-U-SL2-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:	P635005
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3C-830-U-SL2-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9438.1 lumens
Efficiency:	N/A
Efficacy:	101.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	93
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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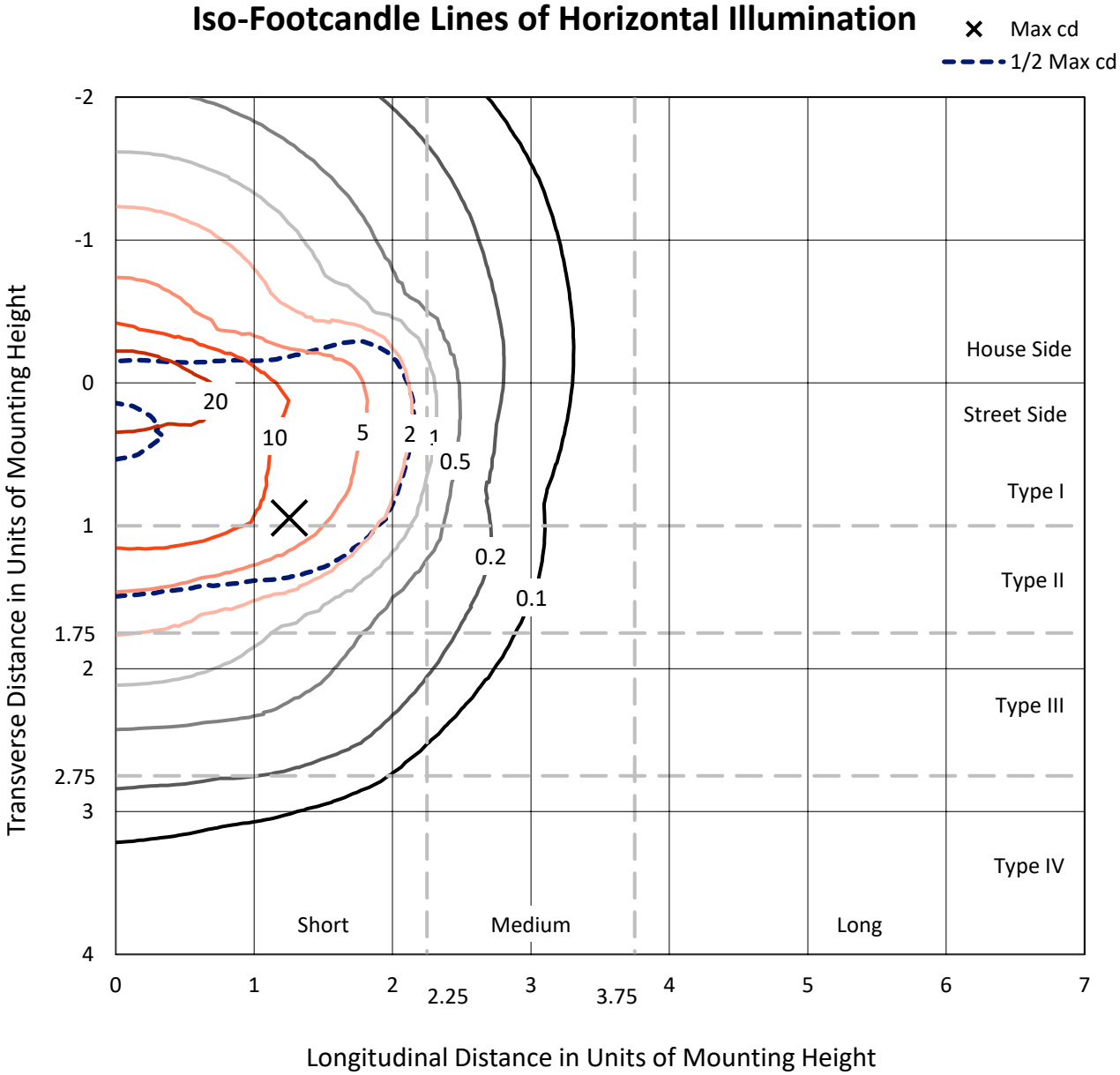
Scaled Data Report

REPORT NUMBER: P635005
CATALOG NUMBER: GWS-SA3C-830-U-SL2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 30.1 fc
Type II - Short - N/A

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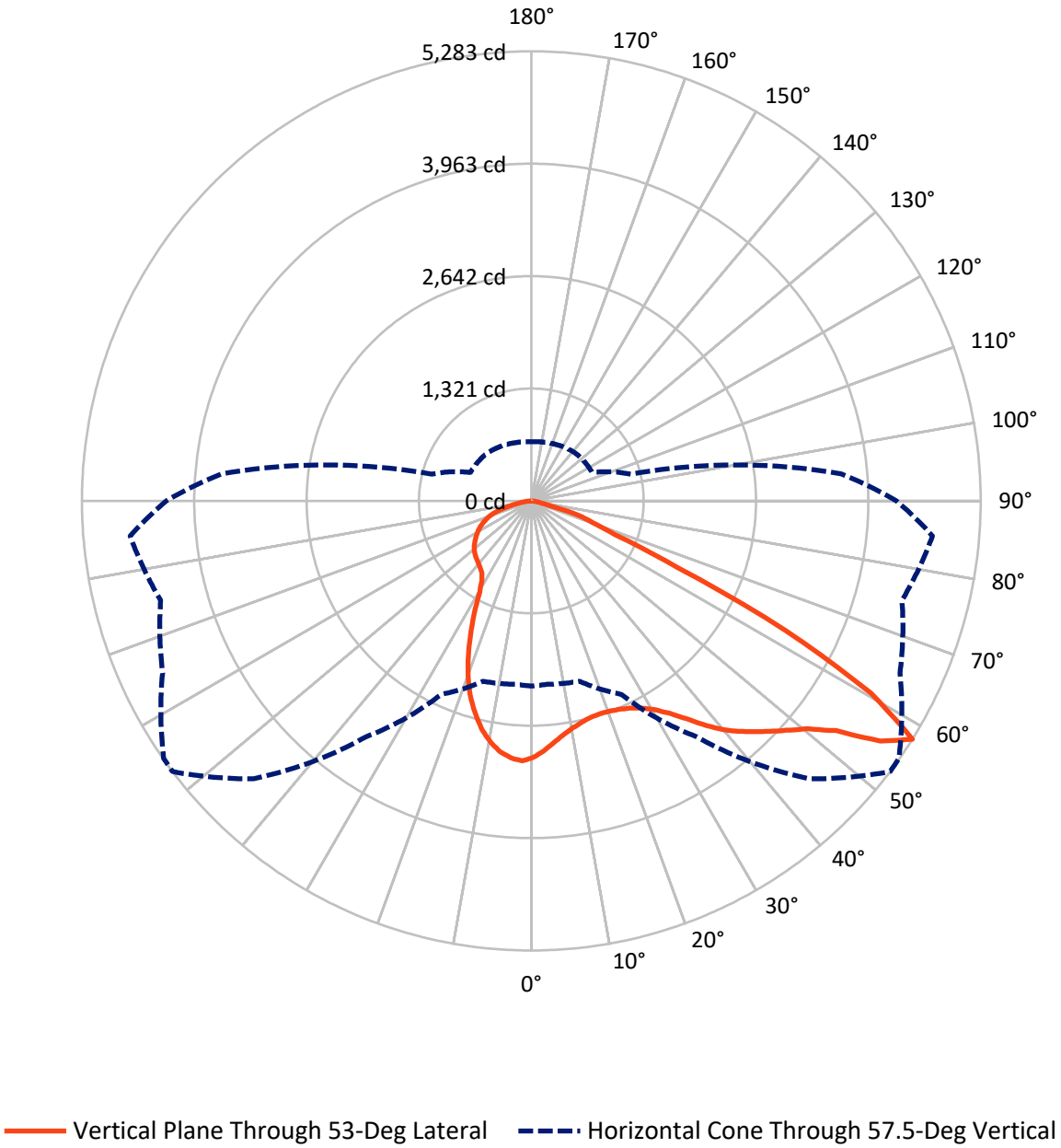
Luminous Intensity Polar Plot



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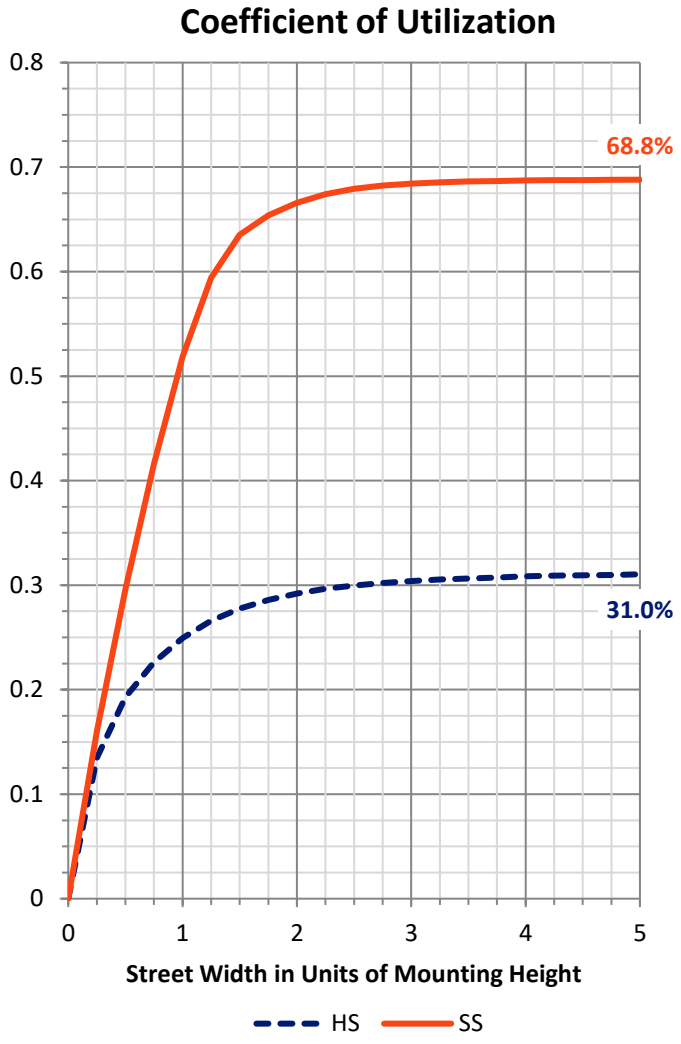
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2950.9	0.0	2950.9
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	6487.2	0.0	6487.2
	% Fixture	68.7	0.0	68.7
Total	Lumens	9438.1	0.0	9438.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.5	2.9
10°-20°	715.0	7.6
20°-30°	1053.5	11.2
30°-40°	1474.6	15.6
40°-50°	1938.5	20.5
50°-60°	2272.9	24.1
60°-70°	1339.0	14.2
70°-80°	333.1	3.5
80°-90°	39.1	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°	9438.1	100.0
0°-180°	9438.1	100.0



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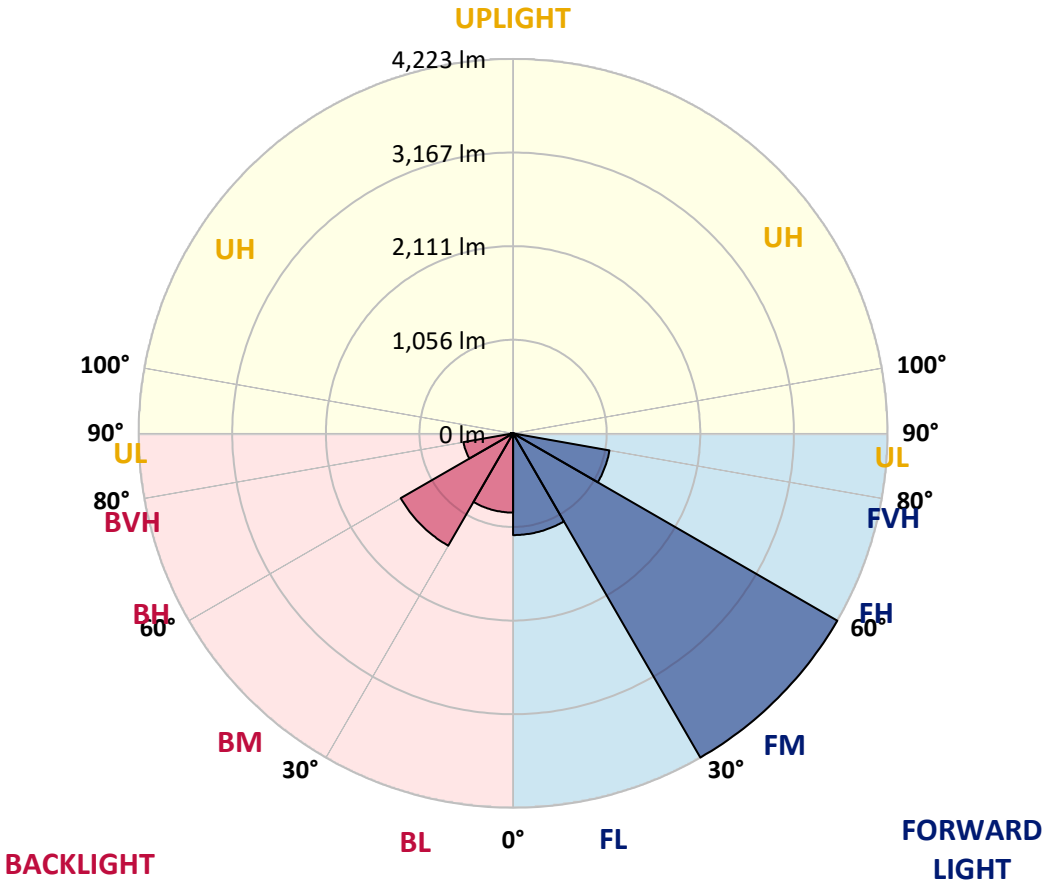
CATALOG NUMBER: GWS-SA3C-830-U-SL2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1147.5	12.2			
FM	(30°-60°)	4222.7	44.7			
FH	(60°-80°)	1103.9	11.7			G1/1800
FVH	(80°-90°)	13.1	0.1			G1/100
BL	(0°-30°)	893.6	9.5	B2/1000		
BM	(30°-60°)	1463.2	15.5	B2/2500		
BH	(60°-80°)	568.2	6.0	B2/1000		G2/1000
BVH	(80°-90°)	26.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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REPORT NUMBER: P635005
CATALOG NUMBER: GWS-SA3C-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8
2.5°	2840.7	2848.6	2850.2	2874.8	2876.4	2912.2	2936.0	2931.2	2955.9	2986.0	3009.9
5°	2704.8	2705.6	2713.6	2743.0	2758.8	2805.7	2845.4	2845.4	2893.1	2955.1	3008.3
7.5°	2592.8	2592.0	2599.2	2631.7	2658.0	2714.4	2768.4	2774.7	2841.5	2932.0	3018.6
10°	2488.8	2494.3	2502.3	2542.0	2575.3	2645.3	2709.6	2719.9	2804.1	2916.1	3032.9
12.5°	2422.0	2422.8	2434.7	2479.2	2522.1	2596.8	2664.3	2677.0	2773.9	2901.0	3043.2
15°	2379.1	2379.9	2392.6	2441.9	2491.9	2567.4	2636.5	2650.8	2756.5	2898.7	3063.1
17.5°	2360.1	2359.3	2371.2	2420.4	2475.3	2553.9	2627.8	2645.3	2764.4	2916.9	3098.0
20°	2360.1	2360.9	2367.2	2411.7	2467.3	2550.7	2636.5	2658.0	2795.4	2958.2	3152.1
22.5°	2393.4	2396.6	2399.8	2430.0	2473.7	2555.5	2659.6	2688.1	2862.1	3027.3	3222.8
25°	2458.6	2459.4	2462.5	2487.2	2507.0	2569.0	2697.7	2740.6	2966.2	3128.2	3311.7
27.5°	2546.0	2557.1	2560.3	2576.1	2576.1	2602.4	2757.3	2819.2	3106.8	3273.6	3425.3
30°	2668.3	2672.3	2677.8	2695.3	2676.2	2665.1	2844.6	2924.1	3269.6	3449.2	3562.0
32.5°	2775.5	2784.3	2814.5	2843.1	2808.9	2773.9	2973.3	3067.1	3426.1	3631.9	3707.3
35°	2866.9	2888.3	2946.3	3009.9	2986.0	2951.1	3144.1	3241.8	3554.8	3762.9	3836.0
37.5°	2977.3	2994.0	3073.4	3176.7	3198.1	3181.5	3352.2	3422.1	3640.6	3796.3	3905.9
40°	3089.3	3114.7	3217.2	3360.2	3442.0	3453.9	3544.5	3591.3	3670.0	3731.2	3892.4
42.5°	3203.7	3247.4	3388.0	3554.8	3700.2	3727.2	3706.5	3726.4	3660.5	3641.4	3829.7
45°	3343.5	3395.1	3554.0	3766.9	3958.3	4000.4	3865.4	3847.1	3658.9	3607.2	3790.7
47.5°	3508.7	3560.4	3712.1	3959.9	4204.6	4235.6	4028.3	3994.9	3714.5	3659.7	3843.2
50°	3654.9	3690.6	3826.5	4103.7	4434.2	4452.4	4207.8	4167.3	3852.7	3805.0	4006.8
52.5°	3506.3	3502.4	3645.4	3986.9	4553.3	4773.4	4484.2	4445.3	4119.6	4046.5	4260.2
55°	2974.9	2929.6	3057.5	3393.5	4220.5	5058.5	4979.9	4902.1	4475.5	4289.6	4497.7
57.5°	2175.0	2162.3	2193.3	2508.6	3380.8	4616.9	5283.4	5276.2	4782.9	4512.0	4734.4
60°	1700.7	1681.7	1599.1	1607.8	2304.5	3606.4	4585.1	4795.6	4973.6	4645.5	4899.7
62.5°	1510.1	1495.8	1452.9	1334.5	1372.7	2418.1	3361.0	3554.0	4346.0	4102.9	4208.6
65°	1250.3	1246.4	1282.1	1277.3	1150.2	1335.3	1897.0	2091.6	2732.6	2766.8	2732.6
67.5°	908.8	901.6	992.2	1170.9	1107.4	1008.1	1057.3	1124.8	1401.3	1258.3	1132.8
70°	591.0	580.7	633.1	846.0	991.4	878.6	761.8	750.7	770.5	479.0	517.9
72.5°	396.4	384.5	383.7	465.5	599.0	591.8	590.2	584.7	521.9	378.1	419.4
75°	220.8	211.3	208.9	201.0	214.5	218.5	232.8	240.7	260.6	286.8	317.7
77.5°	37.3	36.5	46.1	58.8	81.0	104.1	128.7	135.8	167.6	198.6	218.5
80°	20.7	21.4	27.8	34.2	45.3	62.0	79.4	84.2	103.3	119.9	135.8
82.5°	11.1	11.1	14.3	18.3	24.6	32.6	42.9	46.9	59.6	69.9	81.0
85°	4.0	4.0	5.6	7.1	10.3	13.5	16.7	19.1	26.2	35.7	40.5
87.5°	0.0	0.0	0.0	0.0	0.8	1.6	3.2	3.2	4.0	7.1	10.3
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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Scaled Data Report

REPORT NUMBER: P635005
CATALOG NUMBER: GWS-SA3C-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8
2.5°	3029.7	3008.3	3037.7	3051.2	3055.9	3059.1	3038.5	3024.2	3019.4	3004.3	2995.6
5°	3040.8	3026.6	3054.4	3054.4	3034.5	3013.8	2971.7	2942.3	2921.7	2897.1	2893.1
7.5°	3059.9	3049.6	3064.7	3033.7	2983.7	2928.0	2855.0	2797.8	2751.7	2721.5	2722.3
10°	3085.3	3072.6	3060.7	2991.6	2900.2	2797.8	2685.8	2602.4	2526.1	2491.1	2472.1
12.5°	3102.0	3083.7	3033.7	2919.3	2785.1	2647.6	2489.6	2365.6	2255.2	2205.2	2201.2
15°	3122.7	3089.3	2989.2	2825.6	2638.9	2451.4	2248.1	2075.7	1926.3	1848.5	1844.5
17.5°	3149.7	3094.9	2936.0	2718.3	2484.8	2208.3	1952.6	1735.7	1576.8	1516.5	1526.8
20°	3187.8	3101.2	2875.6	2599.2	2293.3	1931.9	1613.4	1414.0	1352.8	1348.8	1340.9
22.5°	3230.7	3105.2	2808.9	2465.7	2061.4	1637.2	1333.0	1248.0	1247.2	1267.0	1271.8
25°	3279.2	3108.4	2733.4	2310.0	1810.4	1343.3	1178.8	1153.4	1173.3	1210.6	1215.4
27.5°	3341.1	3114.7	2642.1	2139.2	1543.5	1160.6	1093.8	1087.5	1111.3	1146.3	1144.7
30°	3432.5	3137.8	2545.2	1943.0	1269.4	1074.0	1042.2	1043.0	1052.5	1069.2	1071.6
32.5°	3525.4	3173.5	2450.6	1722.2	1112.1	1024.7	1010.4	1008.9	1008.9	1016.0	1017.6
35°	3613.6	3214.0	2348.2	1491.8	1035.9	996.1	986.6	981.8	979.5	977.9	975.5
37.5°	3662.8	3233.9	2248.1	1264.6	995.3	977.1	967.5	961.2	952.4	946.1	944.5
40°	3641.4	3210.8	2132.1	1094.6	970.7	958.8	947.7	938.9	927.0	921.5	918.3
42.5°	3569.9	3139.4	2005.8	1014.4	950.9	938.9	925.4	911.1	903.2	898.4	897.6
45°	3494.4	3052.8	1853.3	967.5	931.8	917.5	901.6	885.7	877.0	874.6	873.8
47.5°	3492.1	3009.9	1691.2	930.2	908.8	894.5	874.6	858.7	849.2	846.0	842.8
50°	3596.9	3053.6	1508.5	897.6	884.9	869.8	847.6	830.1	818.2	814.2	813.4
52.5°	3814.6	3218.0	1344.9	865.1	853.2	835.7	817.4	799.9	785.6	778.5	777.7
55°	4049.7	3426.9	1243.2	831.7	815.8	800.7	784.0	765.0	749.1	738.0	736.4
57.5°	*4292.8*	*3654.9*	*1212.2*	*789.6*	*777.7*	*767.4*	*747.5*	*726.8*	*708.6*	*698.3*	*695.9*
60°	4493.0	3851.1	1270.2	745.1	738.8	725.3	707.0	687.1	674.4	666.5	664.9
62.5°	3761.3	3135.4	1025.5	696.7	696.7	682.4	661.7	647.4	638.7	633.1	631.5
65°	2387.1	1941.4	699.8	648.2	647.4	628.3	610.9	601.3	597.4	588.6	587.0
67.5°	1039.8	887.3	598.2	599.0	595.8	575.1	557.6	550.5	542.6	533.0	532.2
70°	539.4	549.7	535.4	544.1	538.6	514.0	497.3	486.2	469.5	459.9	460.7
72.5°	435.3	446.4	462.3	475.8	463.9	444.1	417.8	404.3	382.9	372.6	373.4
75°	332.0	344.0	359.1	373.4	363.8	339.2	322.5	309.0	284.4	272.5	274.9
77.5°	228.8	235.1	253.4	252.6	249.4	242.3	217.7	201.8	176.4	162.1	163.6
80°	142.2	146.2	154.9	158.9	157.3	147.8	127.9	116.0	100.9	92.1	92.9
82.5°	85.8	88.2	96.1	96.9	96.1	89.0	73.9	65.1	55.6	50.8	50.8
85°	43.7	45.3	50.0	50.0	45.3	38.1	34.2	30.2	24.6	22.2	22.2
87.5°	11.9	11.9	15.1	12.7	10.3	9.5	4.8	4.0	1.6	0.8	0.8
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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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

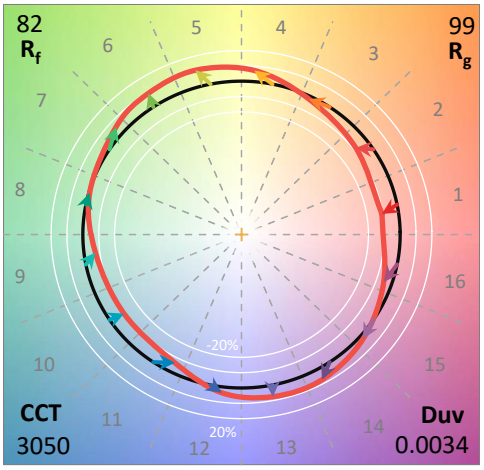
Test Information

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

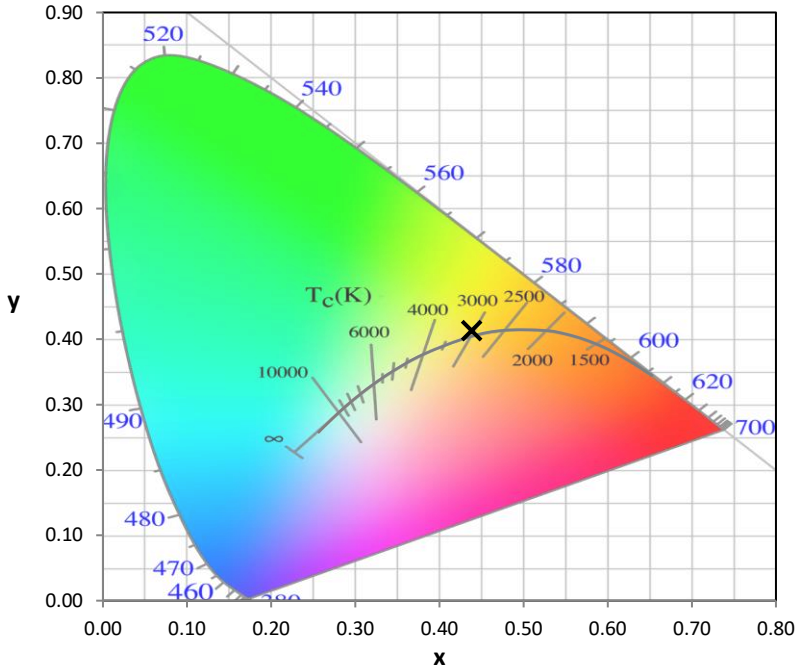
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

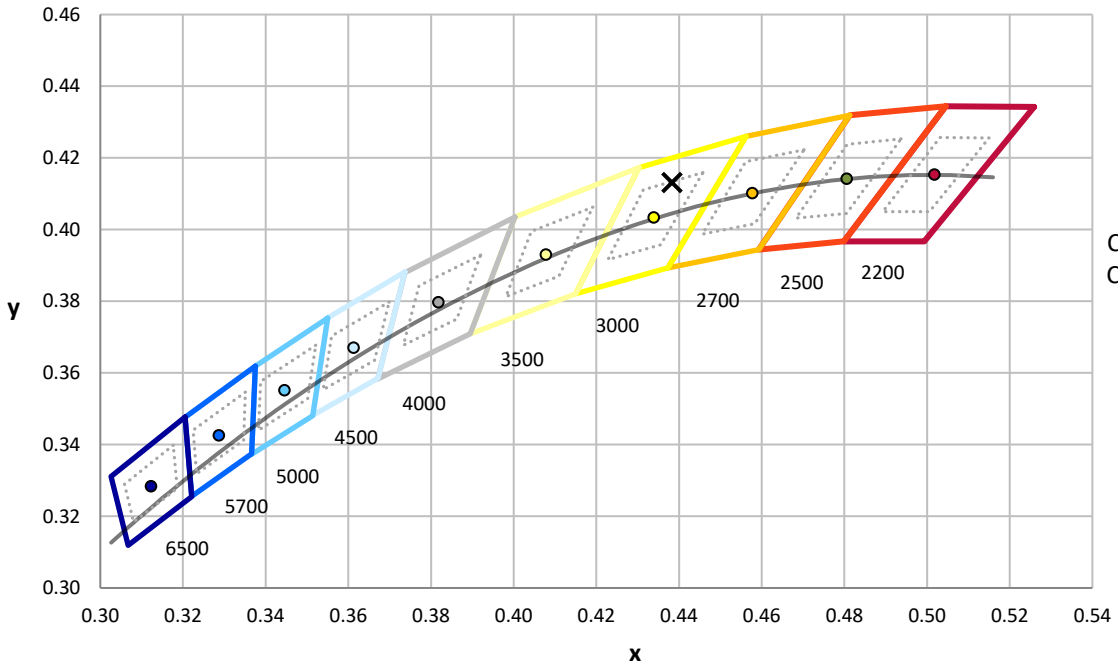
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

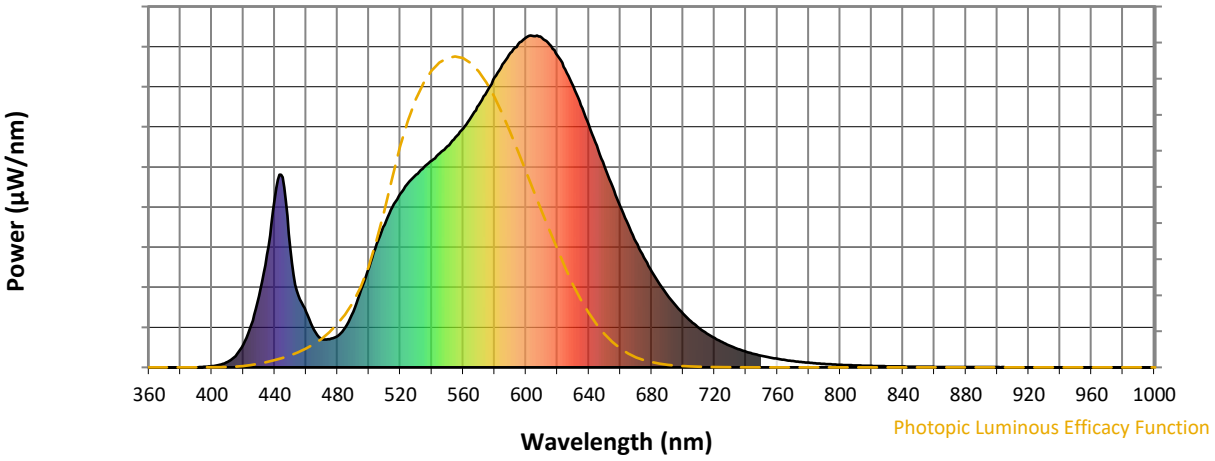


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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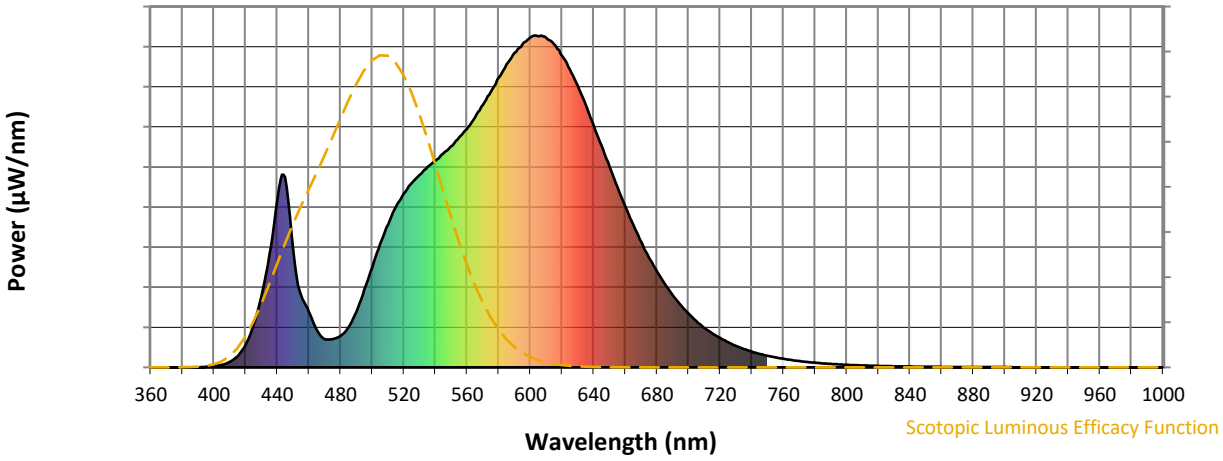
Scotopic Flux vs. Wavelength



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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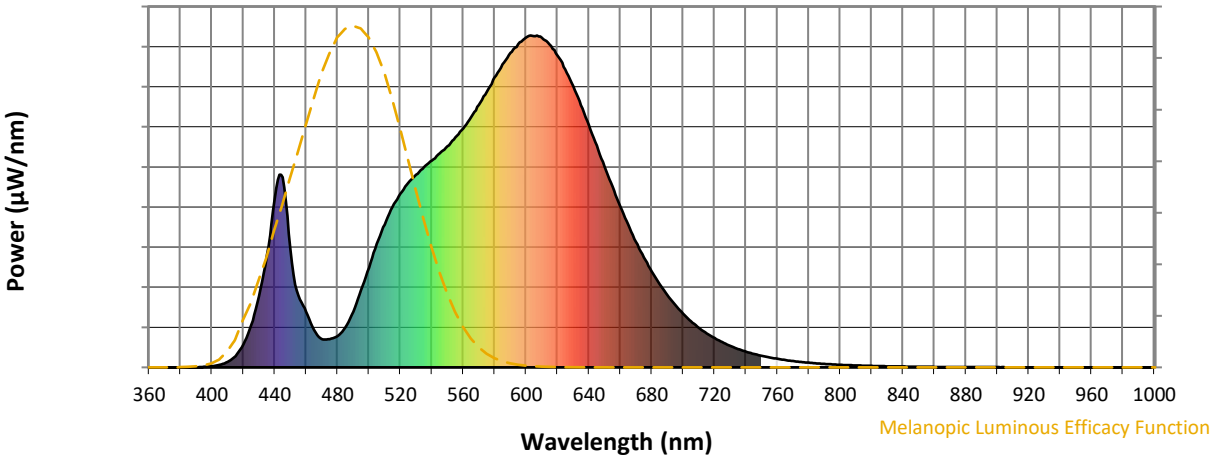
Melanopic Flux vs. Wavelength



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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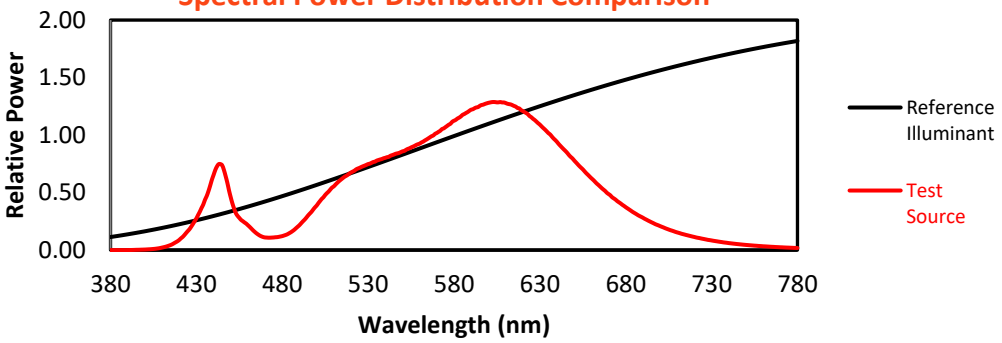
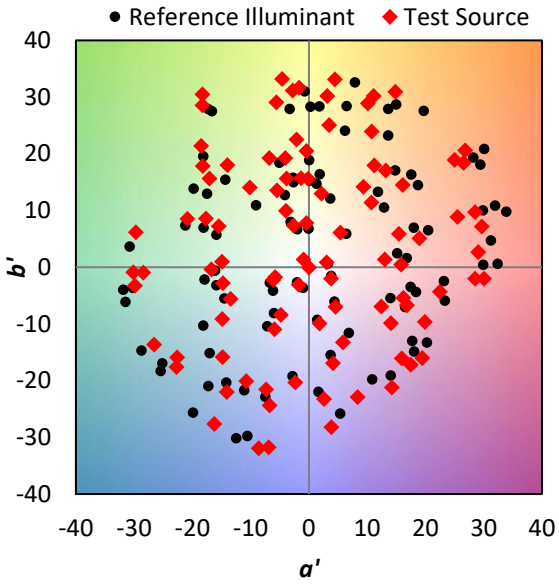
Summary

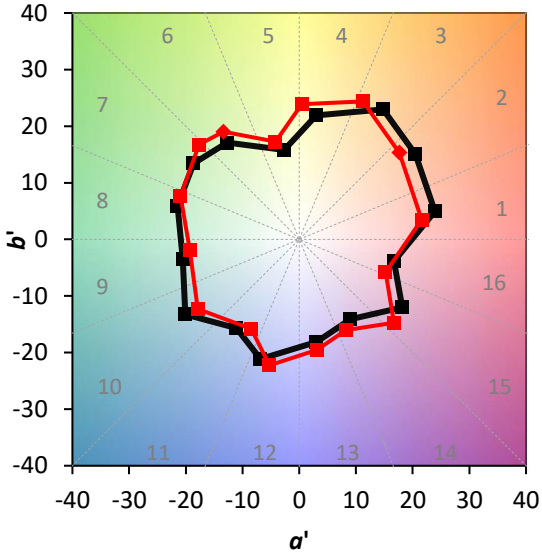
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

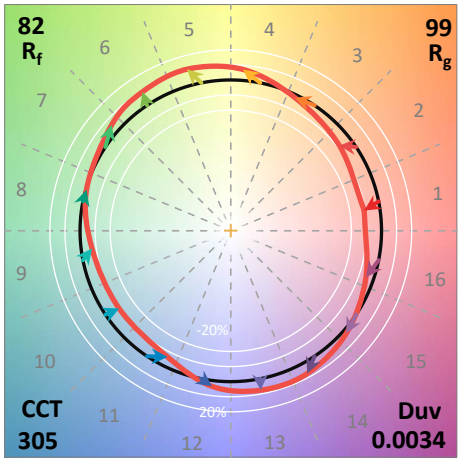
Spectral Power Distribution Comparison

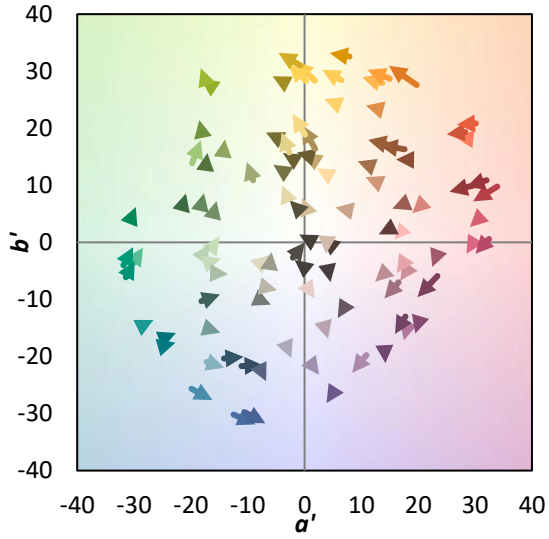


Color Vector Graphics









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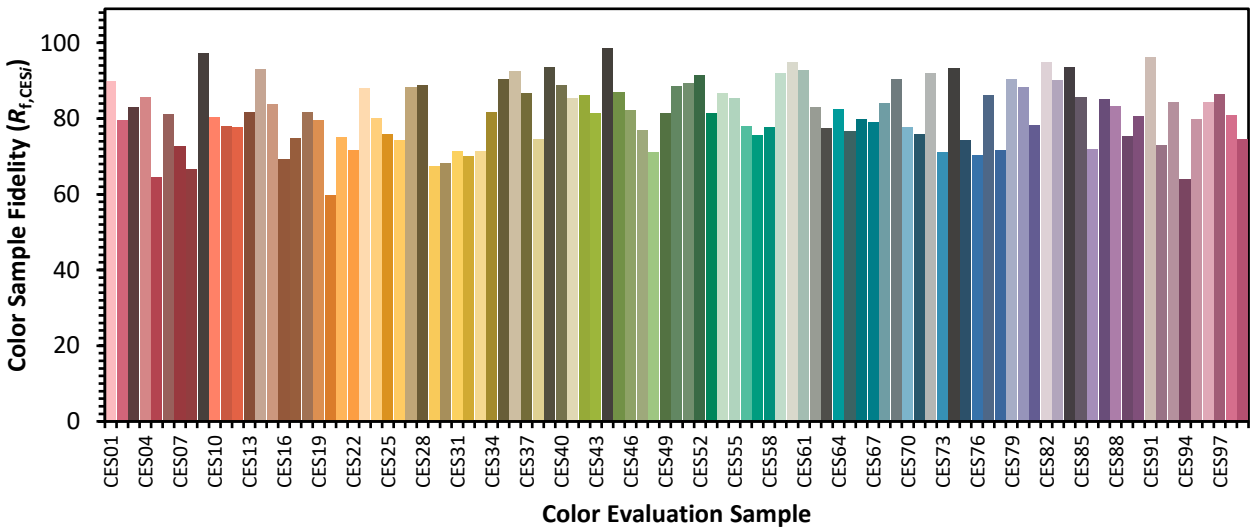
Individual Sample Fidelity Index ($R_{f,i}$)

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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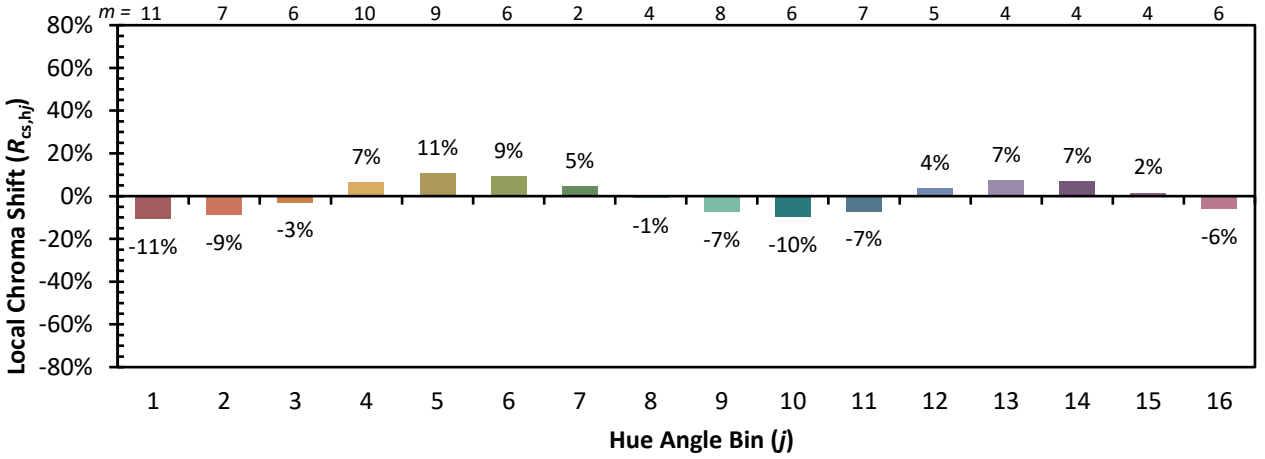
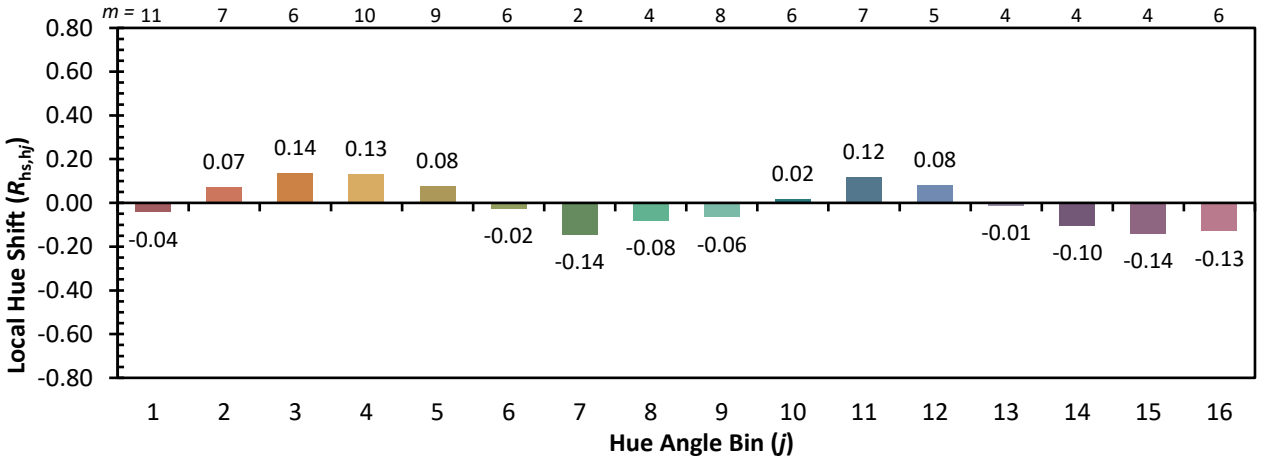
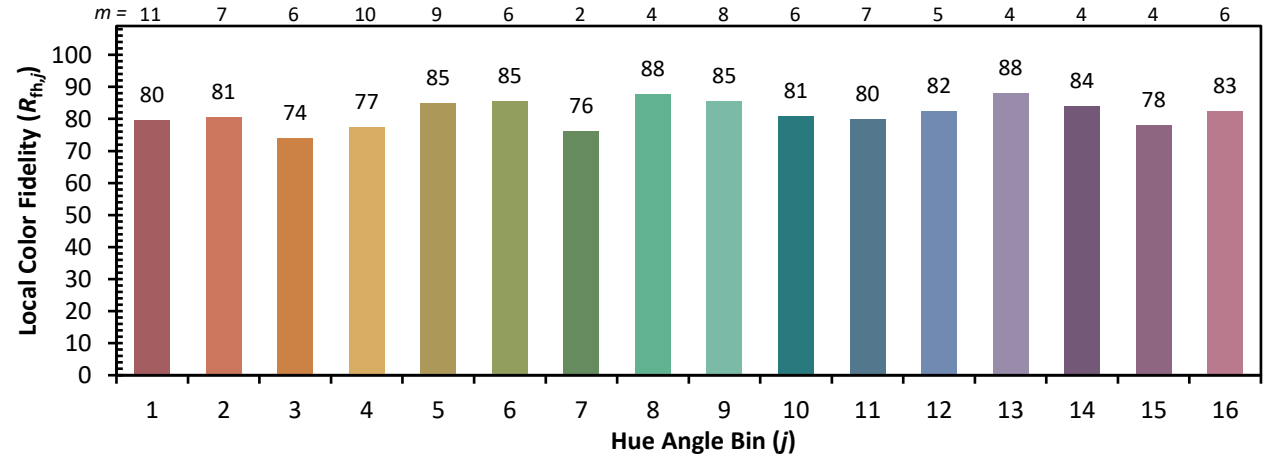
Color Rendition by Hue-Angle Bin







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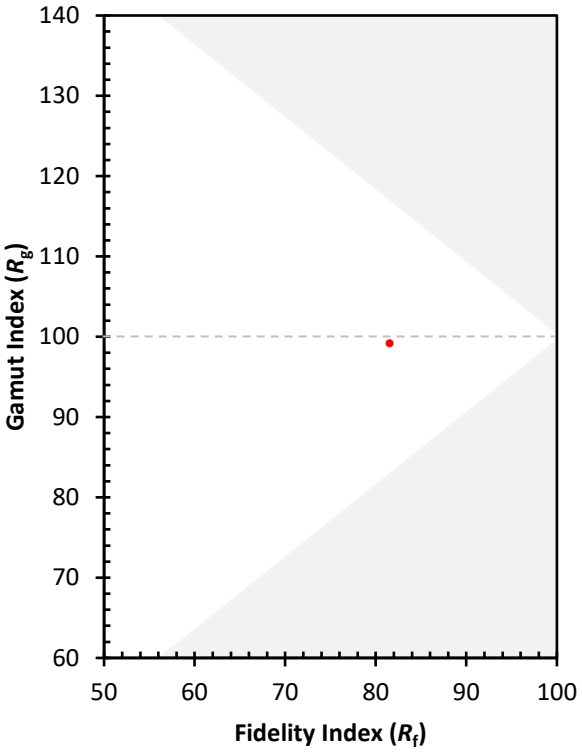
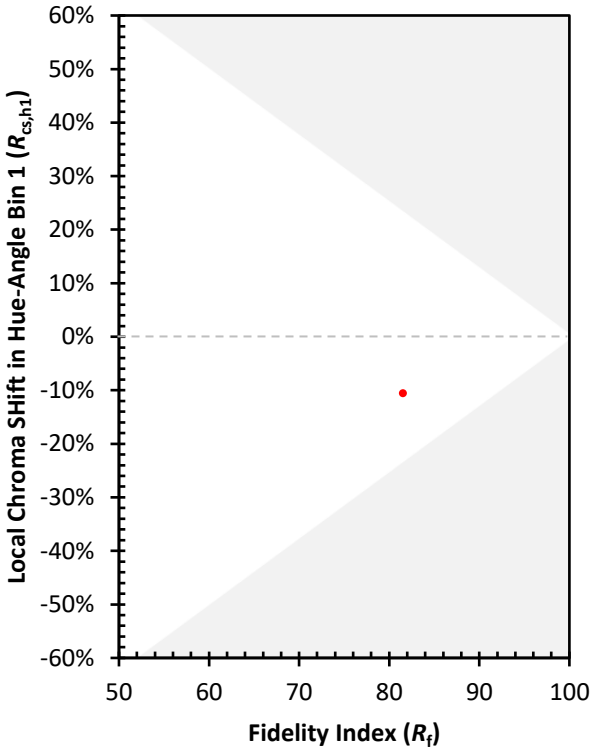
Measure Comparisons





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