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: P635505

Luminaire Tested: GWS-SA3D-830-U-SL3-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:	P635505
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3D-830-U-SL3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11322.5 lumens
Efficiency:	N/A
Efficacy:	93.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	120.8
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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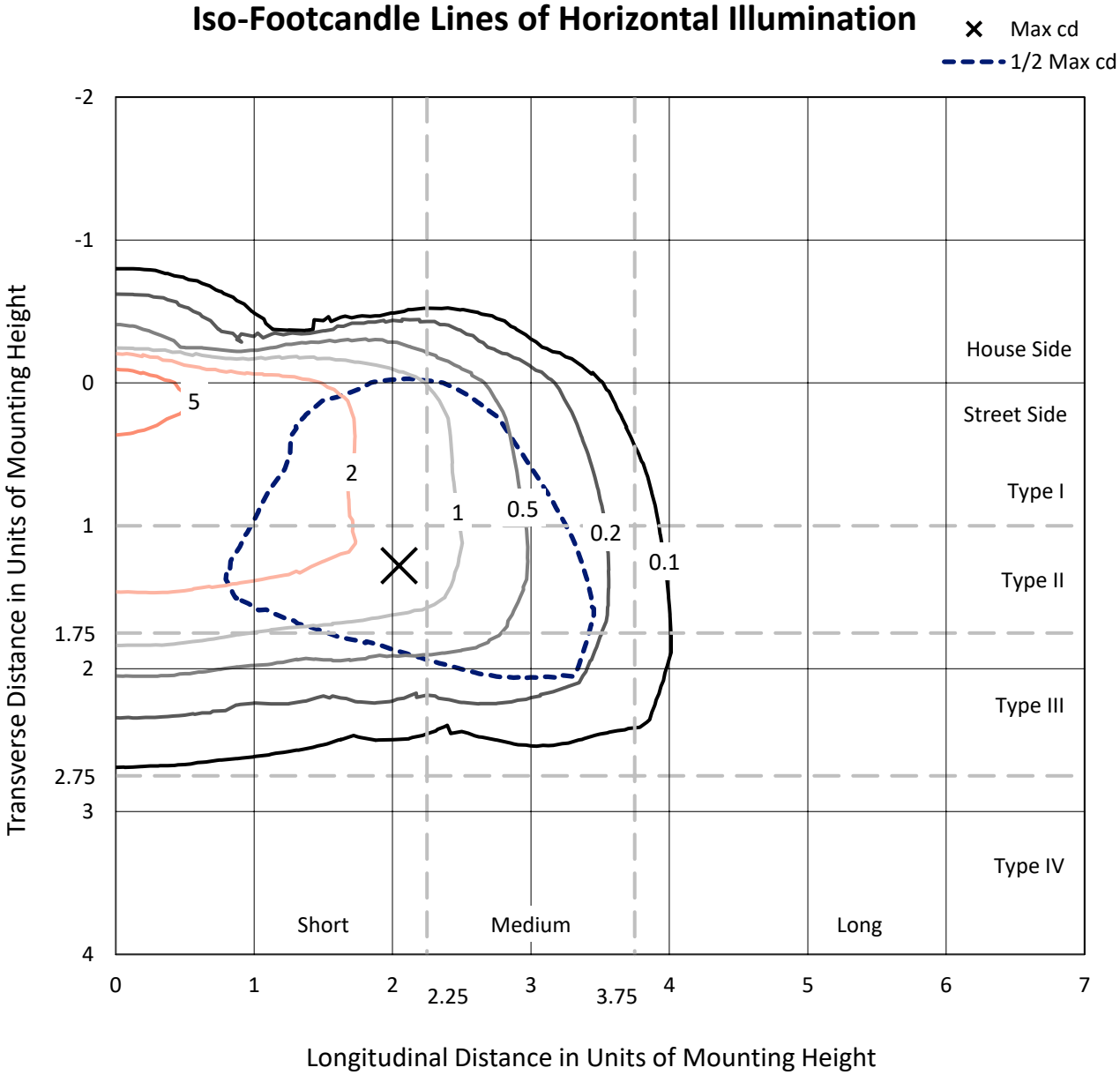
Scaled Data Report

REPORT NUMBER: P635505
CATALOG NUMBER: GWS-SA3D-830-U-SL3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
Type III - Short - N/A

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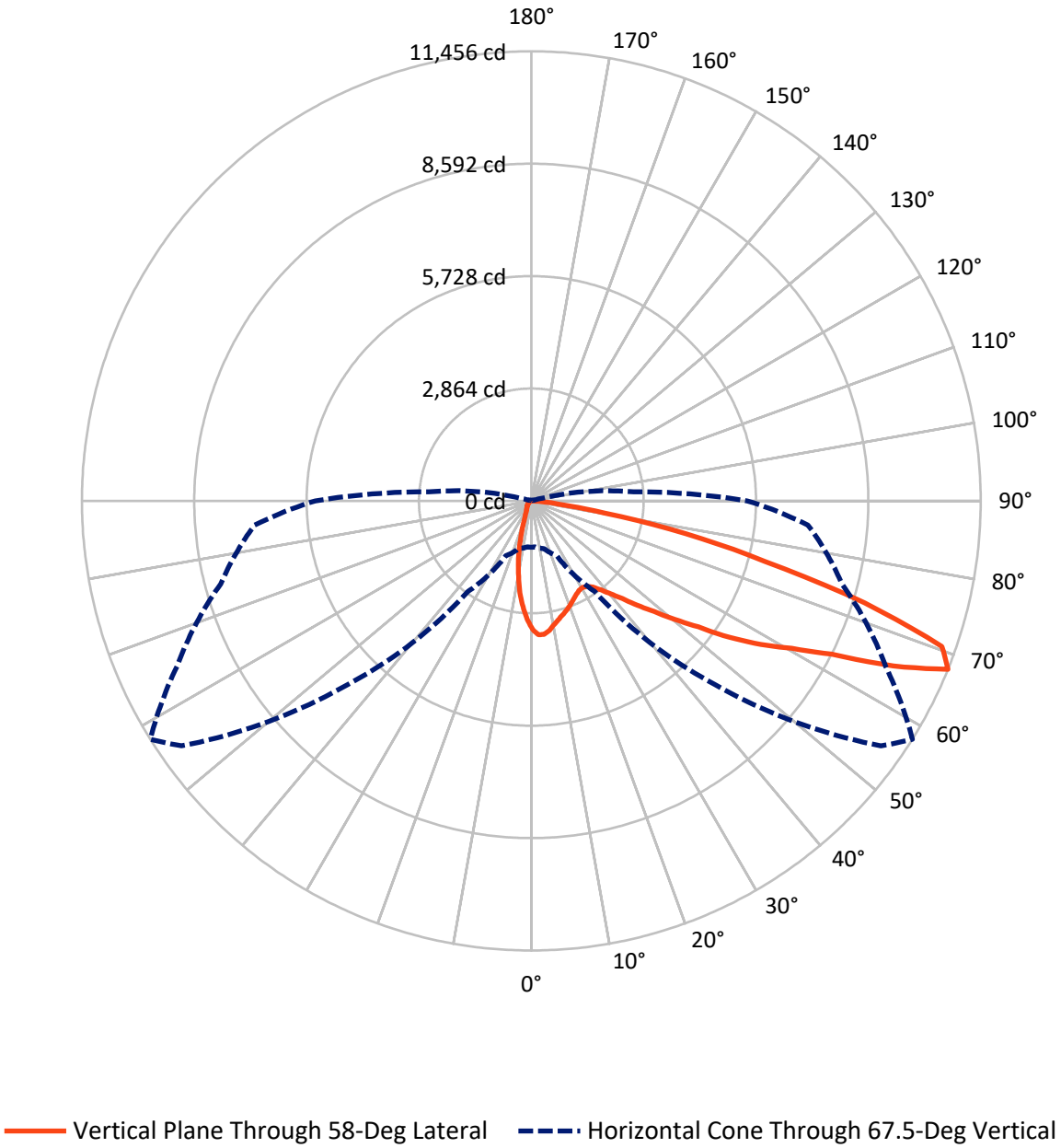
Luminous Intensity Polar Plot



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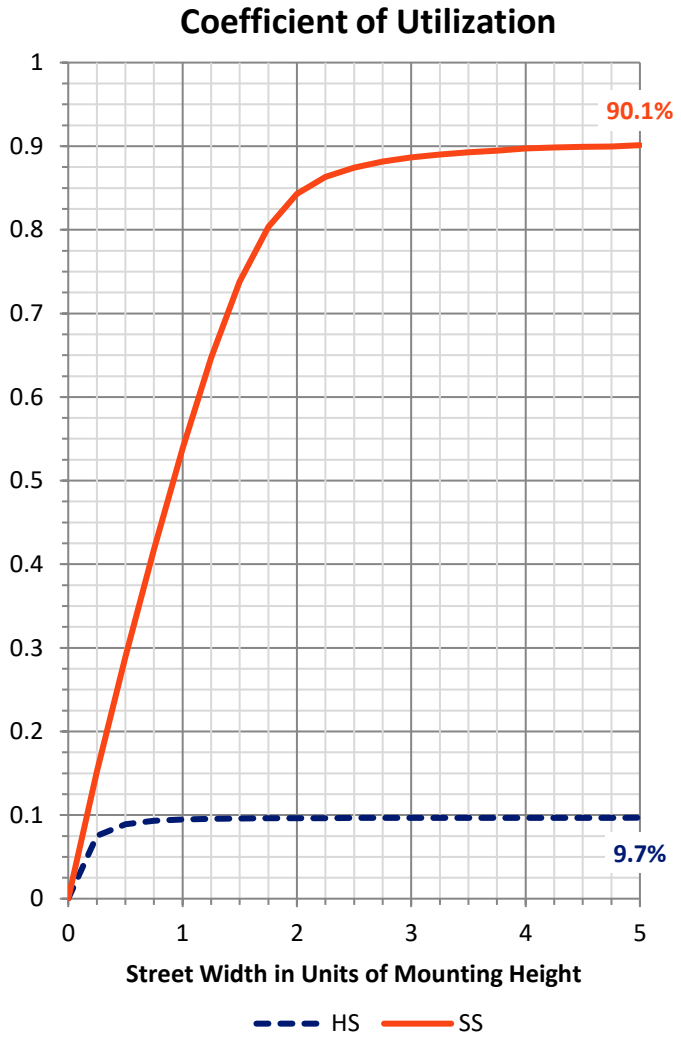
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1106.1	0.0	1106.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	10216.4	0.0	10216.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	11322.5	0.0	11322.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	2.3
10°-20°	552.4	4.9
20°-30°	745.0	6.6
30°-40°	1046.9	9.2
40°-50°	1616.8	14.3
50°-60°	2585.5	22.8
60°-70°	3061.4	27.0
70°-80°	1354.3	12.0
80°-90°	94.7	0.8
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°	11322.5	100.0
0°-180°	11322.5	100.0



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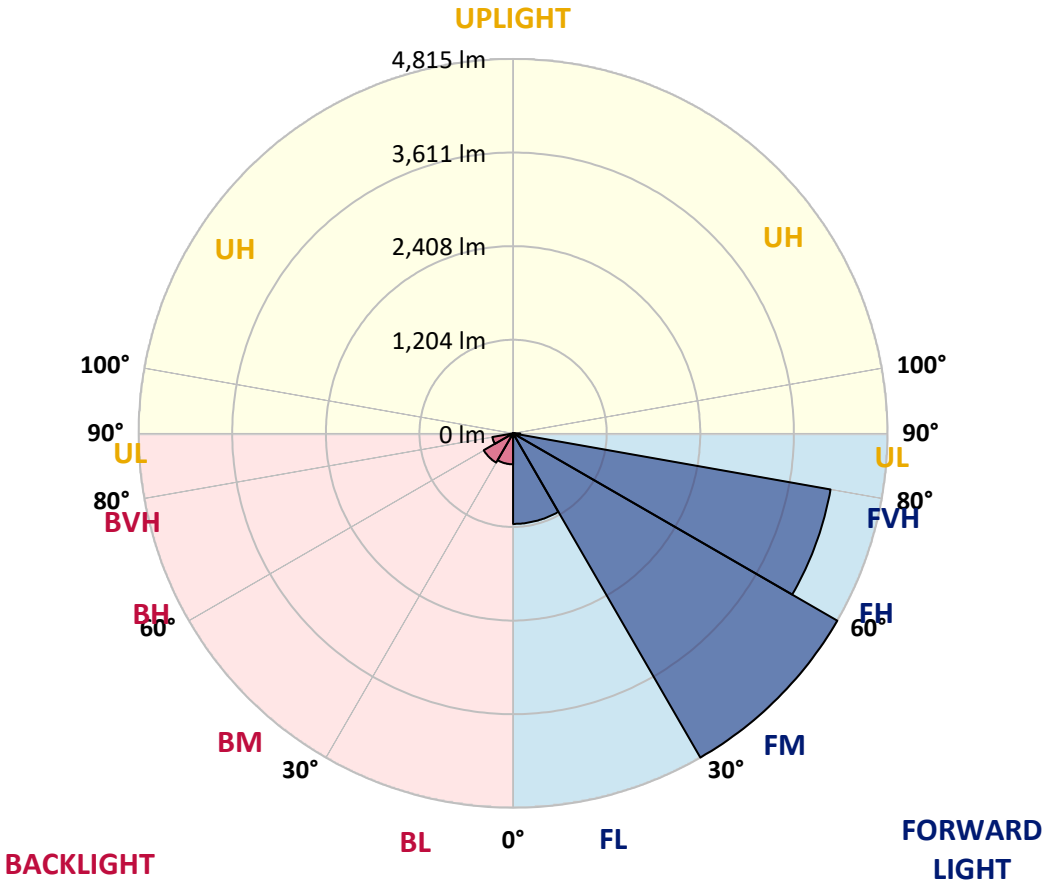
CATALOG NUMBER: GWS-SA3D-830-U-SL3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1164.8	10.3			
FM	(30°-60°)	4815.2	42.5			
FH	(60°-80°)	4145.7	36.6			G2/5000
FVH	(80°-90°)	90.6	0.8			G1/100
BL	(0°-30°)	398.0	3.5	B1/500		
BM	(30°-60°)	434.0	3.8	B1/1000		
BH	(60°-80°)	270.0	2.4	B1/500		G1/500
BVH	(80°-90°)	4.0	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 III Short



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REPORT NUMBER: P635505
CATALOG NUMBER: GWS-SA3D-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9
2.5°	3435.3	3441.3	3449.3	3459.4	3457.3	3448.3	3437.3	3412.3	3396.2	3346.1	3285.0
5°	3325.1	3324.1	3344.1	3363.1	3397.2	3415.3	3440.3	3417.3	3409.2	3349.1	3249.9
7.5°	3109.6	3120.6	3143.7	3173.7	3222.8	3276.0	3336.1	3329.1	3353.1	3313.0	3189.8
10°	2898.2	2892.1	2928.2	2973.3	3048.5	3116.6	3203.8	3202.8	3265.9	3261.9	3121.6
12.5°	2712.8	2711.8	2739.8	2790.9	2879.1	2974.3	3092.6	3095.6	3173.7	3205.8	3063.5
15°	2556.4	2558.4	2585.5	2638.6	2729.8	2846.0	2983.3	3008.4	3096.6	3161.7	3006.4
17.5°	2445.2	2446.2	2462.2	2508.3	2597.5	2721.8	2887.1	2921.2	3034.4	3128.6	2960.3
20°	2394.1	2390.1	2393.1	2416.1	2485.3	2598.5	2788.9	2833.0	2977.3	3105.6	2918.2
22.5°	2401.1	2395.1	2381.1	2378.1	2409.1	2495.3	2684.7	2738.8	2915.2	3091.6	2880.1
25°	2463.2	2450.2	2430.2	2400.1	2388.1	2431.2	2593.5	2649.6	2857.1	3092.6	2851.1
27.5°	2558.4	2544.4	2519.4	2479.3	2432.2	2414.1	2531.4	2584.5	2816.0	3115.6	2837.0
30°	2679.7	2668.7	2644.6	2596.5	2533.4	2459.2	2518.4	2562.4	2795.9	3162.7	2843.0
32.5°	2823.0	2815.0	2794.9	2750.8	2678.7	2565.5	2562.4	2596.5	2812.0	3230.9	2866.1
35°	2961.3	2964.3	2965.3	2941.3	2864.1	2726.8	2683.7	2695.7	2878.1	3333.1	2918.2
37.5°	3110.6	3103.6	3139.7	3156.7	3082.6	2936.2	2871.1	2872.1	3004.4	3484.4	3016.4
40°	3223.9	3225.9	3304.0	3374.2	3343.1	3201.8	3108.6	3107.6	3198.8	3691.8	3174.7
42.5°	3330.1	3343.1	3458.3	3578.6	3621.7	3496.4	3429.3	3404.2	3471.4	3972.4	3412.3
45°	3443.3	3462.4	3623.7	3795.1	3908.3	3834.1	3781.0	3791.1	3799.1	4299.1	3731.9
47.5°	3575.6	3587.6	3787.0	4028.6	4240.0	4221.0	4224.0	4212.0	4207.9	4711.0	4154.8
50°	3735.9	3764.0	3993.5	4282.1	4570.7	4697.0	4739.1	4744.1	4678.9	5160.0	4592.8
52.5°	4076.7	4110.7	4307.2	4559.7	4931.5	5197.0	5368.4	5334.3	5234.1	5594.9	5072.8
55°	4478.5	4504.6	4694.0	4955.5	5372.4	5745.2	6152.1	6138.0	5892.5	6052.9	5467.6
57.5°	4516.6	4545.7	4839.3	5240.1	5938.6	6422.6	6850.6	6895.7	6535.9	6377.6	5820.4
60°	4088.7	4147.8	4548.7	5087.8	6155.1	7333.6	7616.2	7625.2	7007.9	6707.3	6251.3
62.5°	3277.0	3305.0	3708.9	4412.4	5821.4	7864.7	8785.7	8595.3	7614.2	7217.3	6933.7
65°	1717.7	1831.9	2183.6	2962.3	4721.0	7679.3	10192.7	10140.5	8704.5	7947.9	7464.9
67.5°	1178.5	1177.5	1260.7	1544.3	2815.0	6612.1	10883.1	11456.3	9965.2	8198.4	7080.0
70°	896.9	899.9	974.1	1158.5	1458.1	4401.4	10125.5	11105.6	10199.7	7443.8	5726.2
72.5°	595.3	601.3	724.5	936.0	1164.5	2157.6	7868.7	8885.9	8582.2	5978.7	4030.6
75°	355.8	360.8	449.0	680.4	1035.2	1207.6	4999.6	6143.1	5907.6	4120.8	2160.6
77.5°	146.3	150.3	230.5	423.9	757.6	938.0	2764.9	4019.5	3538.5	1638.5	590.3
80°	61.1	63.1	111.2	296.6	546.2	588.3	1280.7	1889.0	1450.1	352.7	180.4
82.5°	22.0	23.0	41.1	163.3	339.7	442.9	646.4	746.6	408.9	115.2	97.2
85°	1.0	1.0	10.0	55.1	129.3	125.3	369.8	357.8	135.3	48.1	58.1
87.5°	0.0	0.0	1.0	1.0	2.0	5.0	35.1	62.1	29.1	12.0	25.1
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: P635505
CATALOG NUMBER: GWS-SA3D-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9
2.5°	3244.9	3191.8	3133.7	3079.5	2993.4	2942.3	2879.1	2851.1	2811.0	2801.0	2807.0
5°	3178.8	3087.6	2948.3	2822.0	2658.6	2527.4	2395.1	2339.0	2266.8	2218.7	2198.7
7.5°	3085.6	2966.3	2748.8	2519.4	2294.9	2055.4	1873.0	1752.7	1643.5	1583.4	1571.3
10°	2991.4	2836.0	2524.4	2195.7	1847.9	1561.3	1314.8	1132.4	984.1	916.9	864.8
12.5°	2894.2	2700.7	2295.9	1867.0	1463.1	1072.3	767.6	590.3	484.0	441.9	449.0
15°	2805.0	2570.5	2069.4	1538.3	1030.2	647.4	423.9	357.8	332.7	324.7	323.7
17.5°	2719.8	2447.2	1843.9	1218.6	679.4	396.8	324.7	308.7	301.6	297.6	297.6
20°	2642.6	2328.9	1623.4	918.0	438.9	314.7	293.6	285.6	279.6	276.6	276.6
22.5°	2570.5	2214.7	1408.0	649.4	323.7	282.6	269.6	261.6	254.5	250.5	250.5
25°	2505.3	2111.5	1202.6	446.9	278.6	258.5	244.5	235.5	223.5	216.5	216.5
27.5°	2458.2	2019.3	1005.1	325.7	251.5	232.5	216.5	204.4	191.4	183.4	181.4
30°	2430.2	1941.1	805.7	267.6	226.5	207.4	189.4	174.4	159.3	151.3	150.3
32.5°	2414.1	1869.0	623.3	233.5	205.4	183.4	163.3	147.3	132.3	123.3	122.3
35°	2420.1	1812.9	467.0	210.4	185.4	162.3	140.3	124.3	111.2	103.2	101.2
37.5°	2472.3	1787.8	350.7	192.4	168.4	144.3	121.3	106.2	94.2	88.2	87.2
40°	2573.5	1792.8	275.6	178.4	154.3	126.3	104.2	90.2	81.2	76.2	75.2
42.5°	2730.8	1834.9	227.5	166.4	139.3	110.2	90.2	79.2	70.1	65.1	64.1
45°	2965.3	1922.1	198.4	152.3	123.3	95.2	78.2	68.1	60.1	54.1	53.1
47.5°	3305.0	2073.4	179.4	139.3	109.2	82.2	67.1	57.1	50.1	45.1	44.1
50°	3666.8	2254.8	163.3	126.3	97.2	71.2	57.1	47.1	41.1	36.1	35.1
52.5°	4052.6	2450.2	151.3	114.2	86.2	61.1	48.1	39.1	33.1	28.1	27.1
55°	4423.4	2646.6	137.3	106.2	73.2	52.1	40.1	32.1	26.1	22.0	22.0
57.5°	4784.2	2827.0	122.3	93.2	60.1	44.1	33.1	26.1	21.0	18.0	17.0
60°	5215.1	3076.5	105.2	79.2	50.1	37.1	27.1	21.0	17.0	14.0	14.0
62.5°	5855.4	3336.1	90.2	66.1	42.1	31.1	22.0	17.0	14.0	12.0	11.0
65°	6064.9	3195.8	76.2	54.1	34.1	25.1	18.0	15.0	12.0	11.0	10.0
67.5°	*5505.7*	*2619.6*	*63.1*	*44.1*	*28.1*	*21.0*	*16.0*	*13.0*	*11.0*	*10.0*	*9.0*
70°	4296.1	1859.0	49.1	33.1	23.0	17.0	14.0	12.0	10.0	9.0	9.0
72.5°	2922.2	1099.3	39.1	25.1	19.0	15.0	12.0	11.0	10.0	9.0	8.0
75°	1439.1	390.8	30.1	19.0	15.0	13.0	11.0	10.0	9.0	8.0	8.0
77.5°	387.8	108.2	23.0	15.0	12.0	10.0	10.0	10.0	9.0	7.0	7.0
80°	131.3	45.1	17.0	11.0	10.0	8.0	7.0	9.0	8.0	7.0	6.0
82.5°	72.2	22.0	12.0	9.0	7.0	6.0	6.0	6.0	6.0	5.0	5.0
85°	46.1	12.0	8.0	7.0	7.0	5.0	4.0	4.0	3.0	3.0	3.0
87.5°	21.0	7.0	7.0	6.0	6.0	5.0	3.0	2.0	1.0	1.0	1.0
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

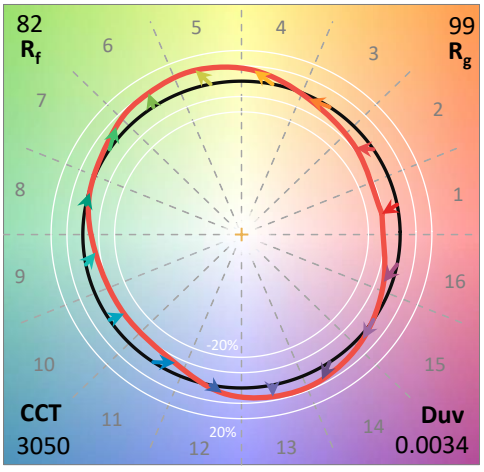
Test Information

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

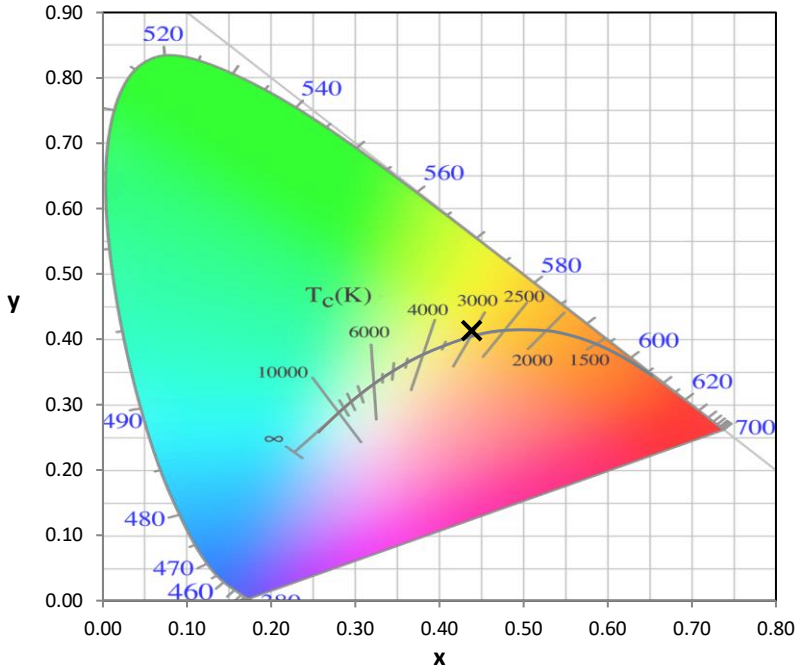
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

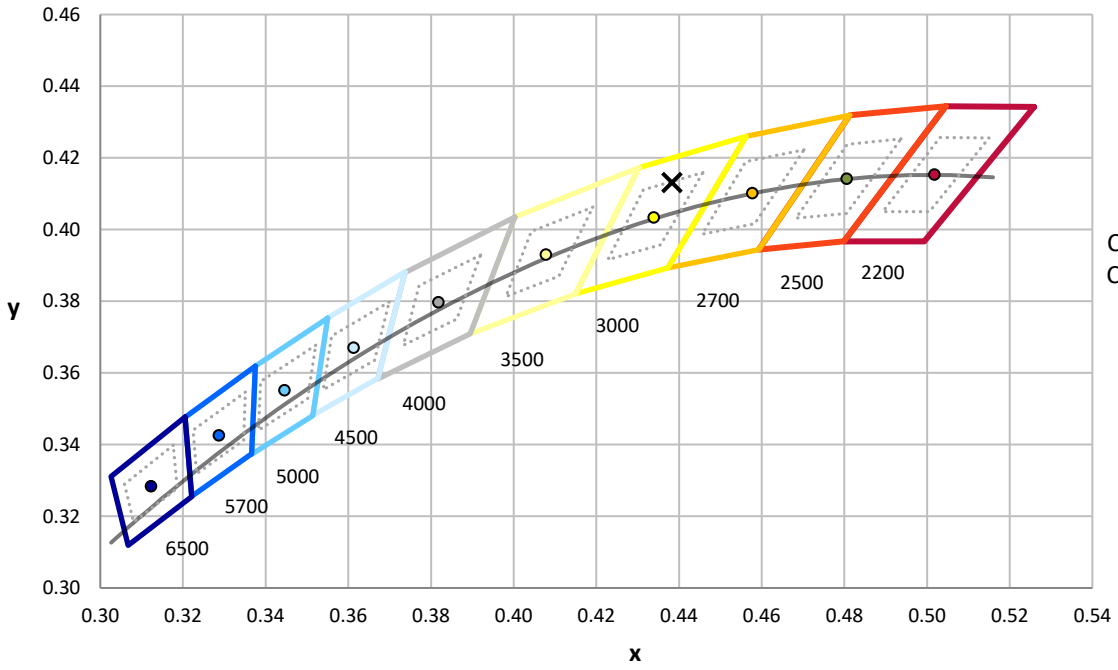
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

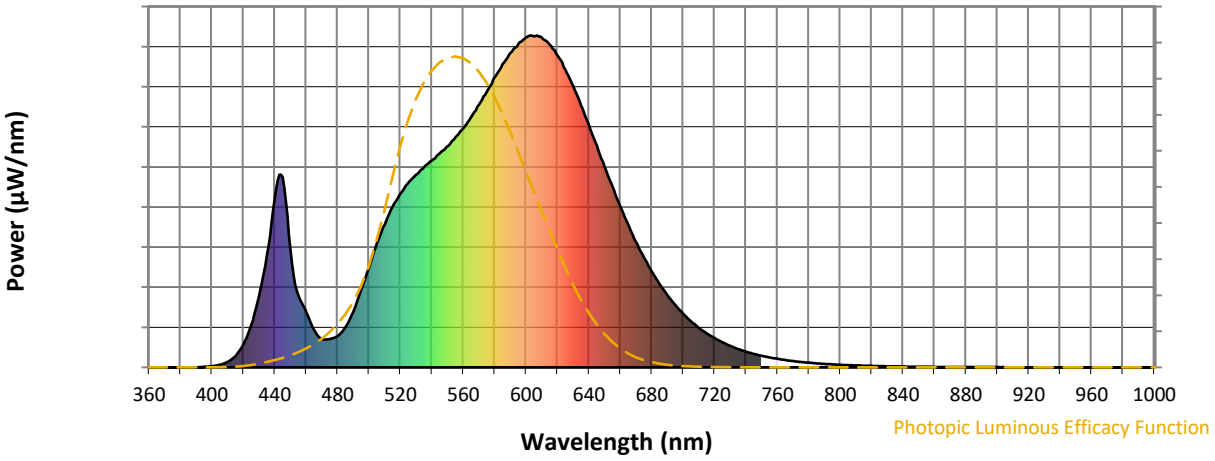


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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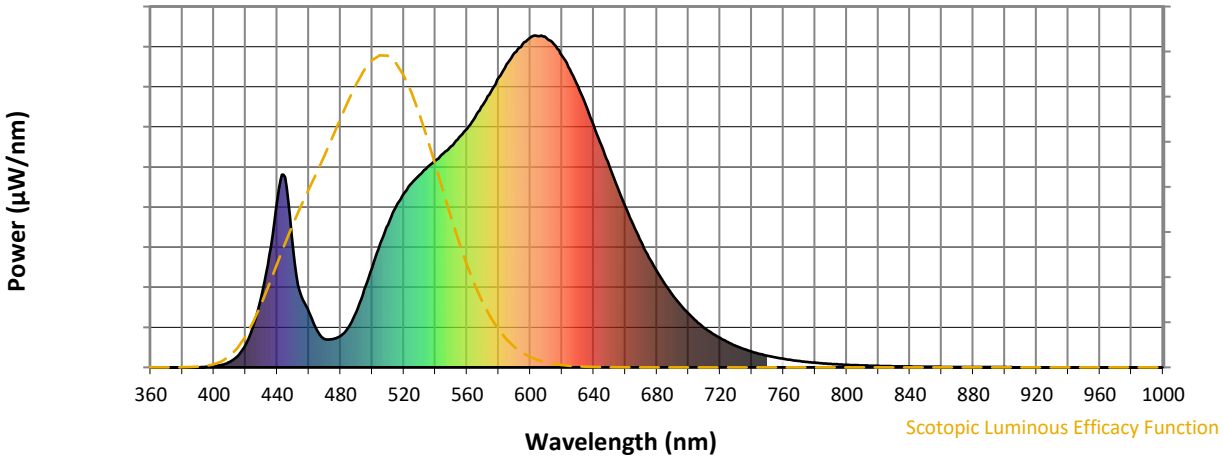
Scotopic Flux vs. Wavelength



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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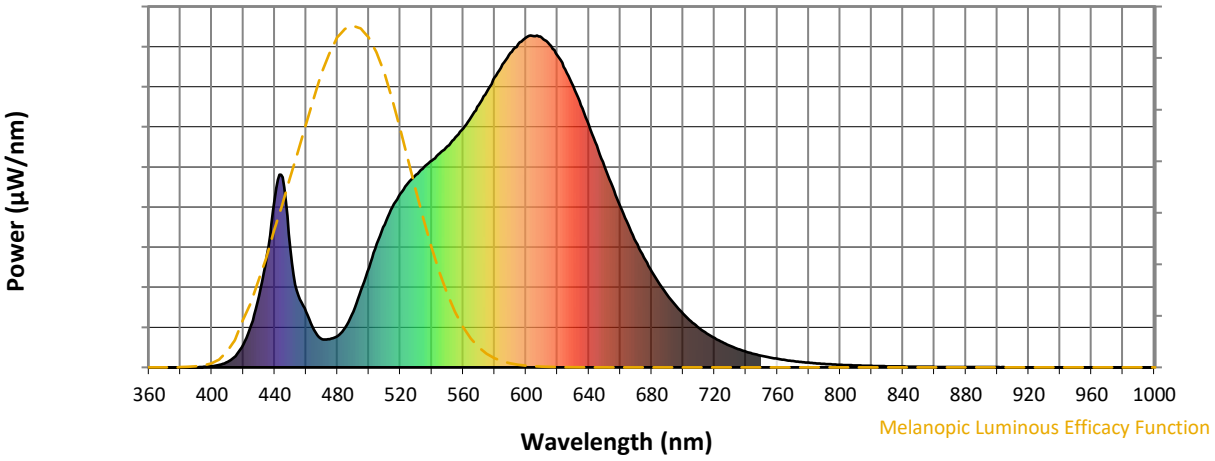
Melanopic Flux vs. Wavelength



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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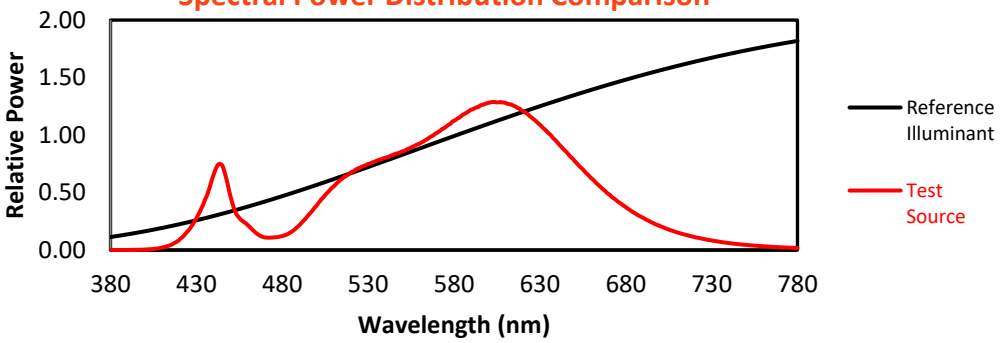
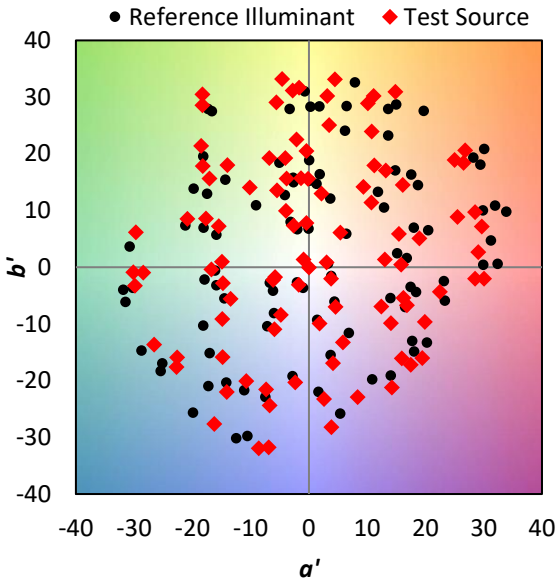
Summary

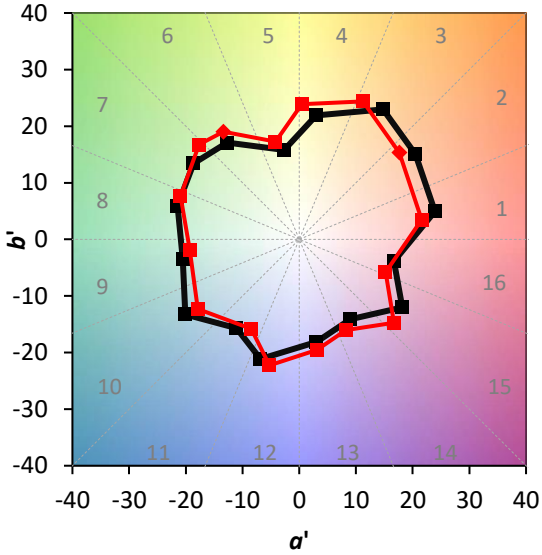
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

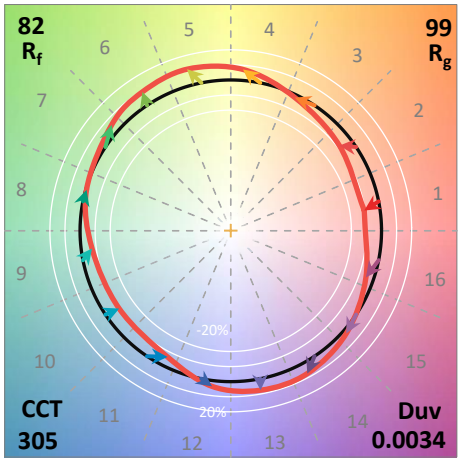
Spectral Power Distribution Comparison

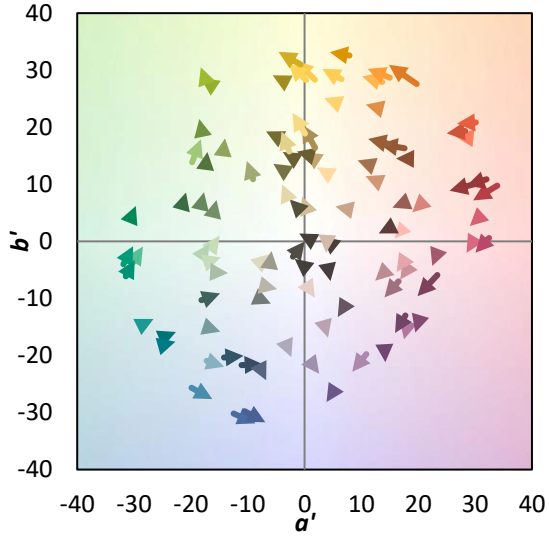


Color Vector Graphics









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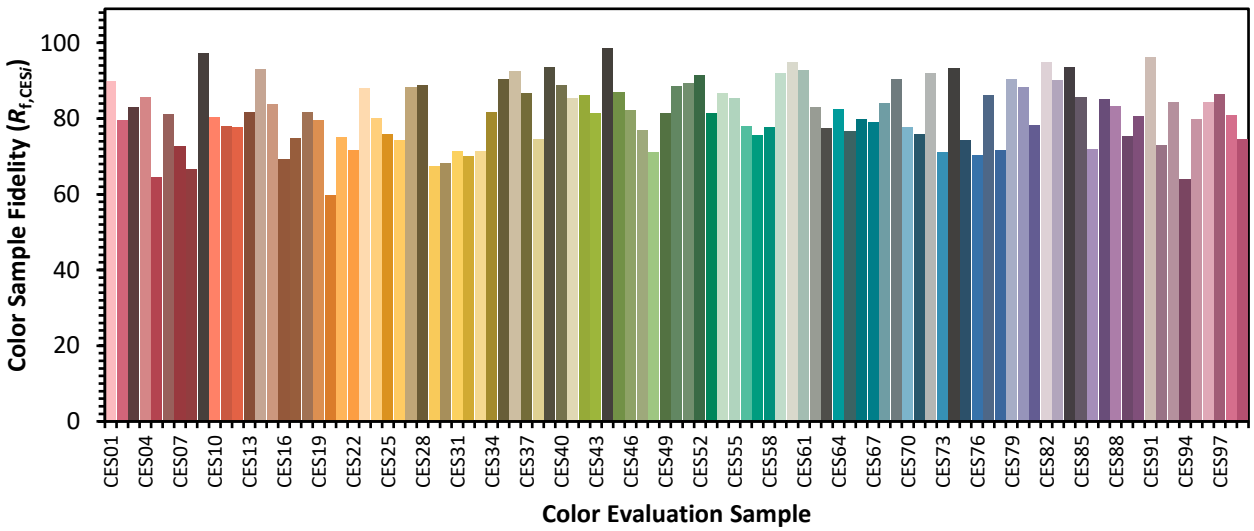
Individual Sample Fidelity Index ($R_{f,i}$)

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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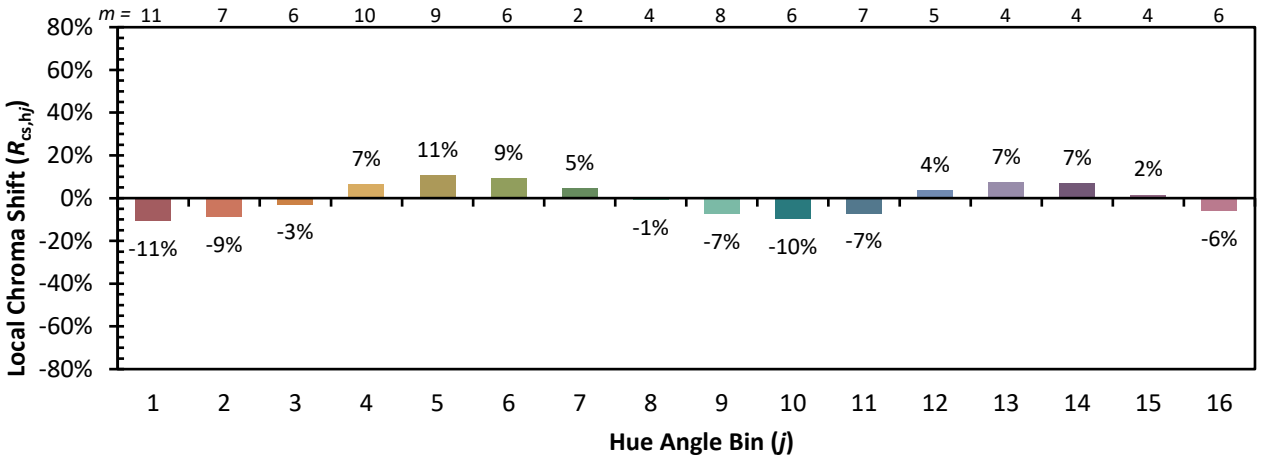
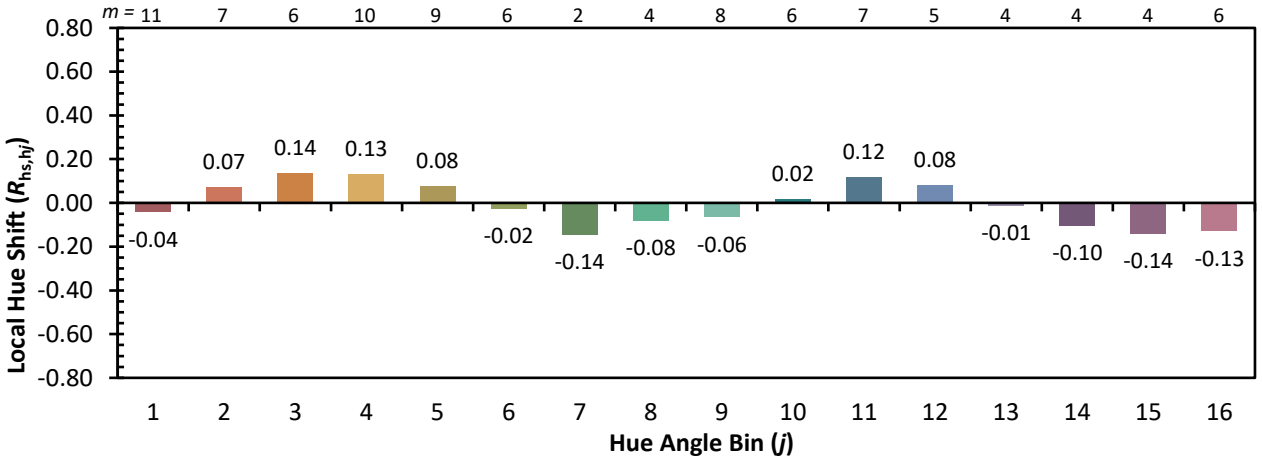
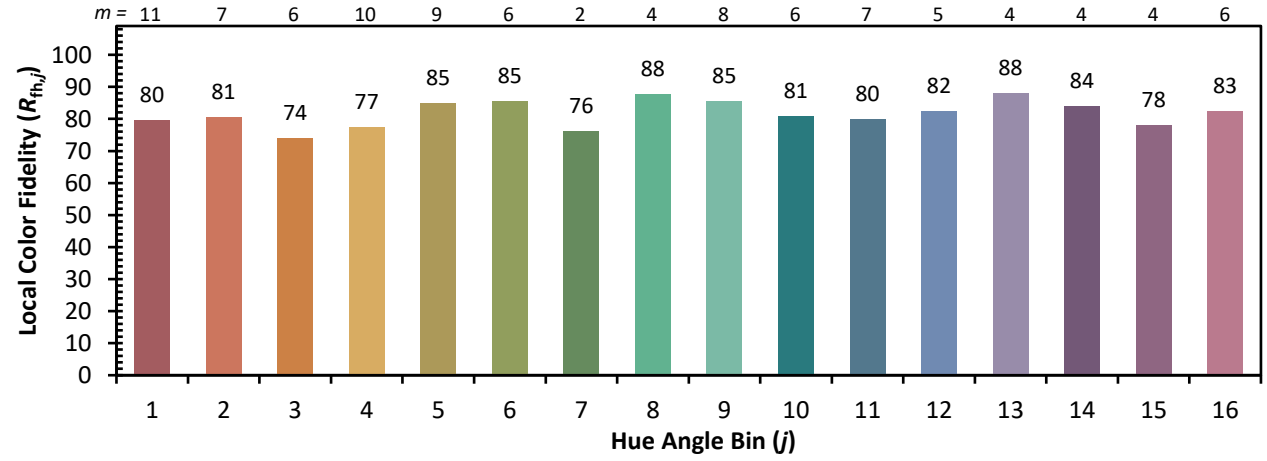
Color Rendition by Hue-Angle Bin







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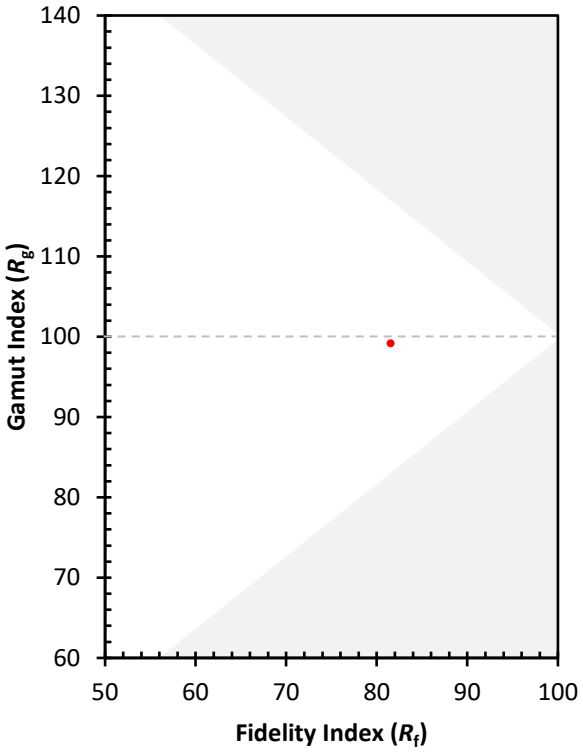
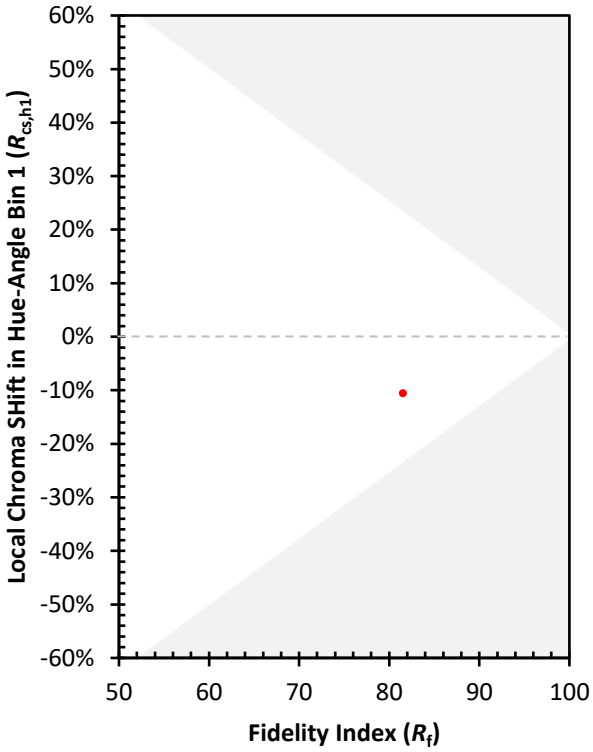
Measure Comparisons





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