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: P637482

Luminaire Tested: GWS-SA4C-830-U-SL2-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:	P637482
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4C-830-U-SL2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15153.4 lumens
Efficiency:	N/A
Efficacy:	117.9 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	128.5
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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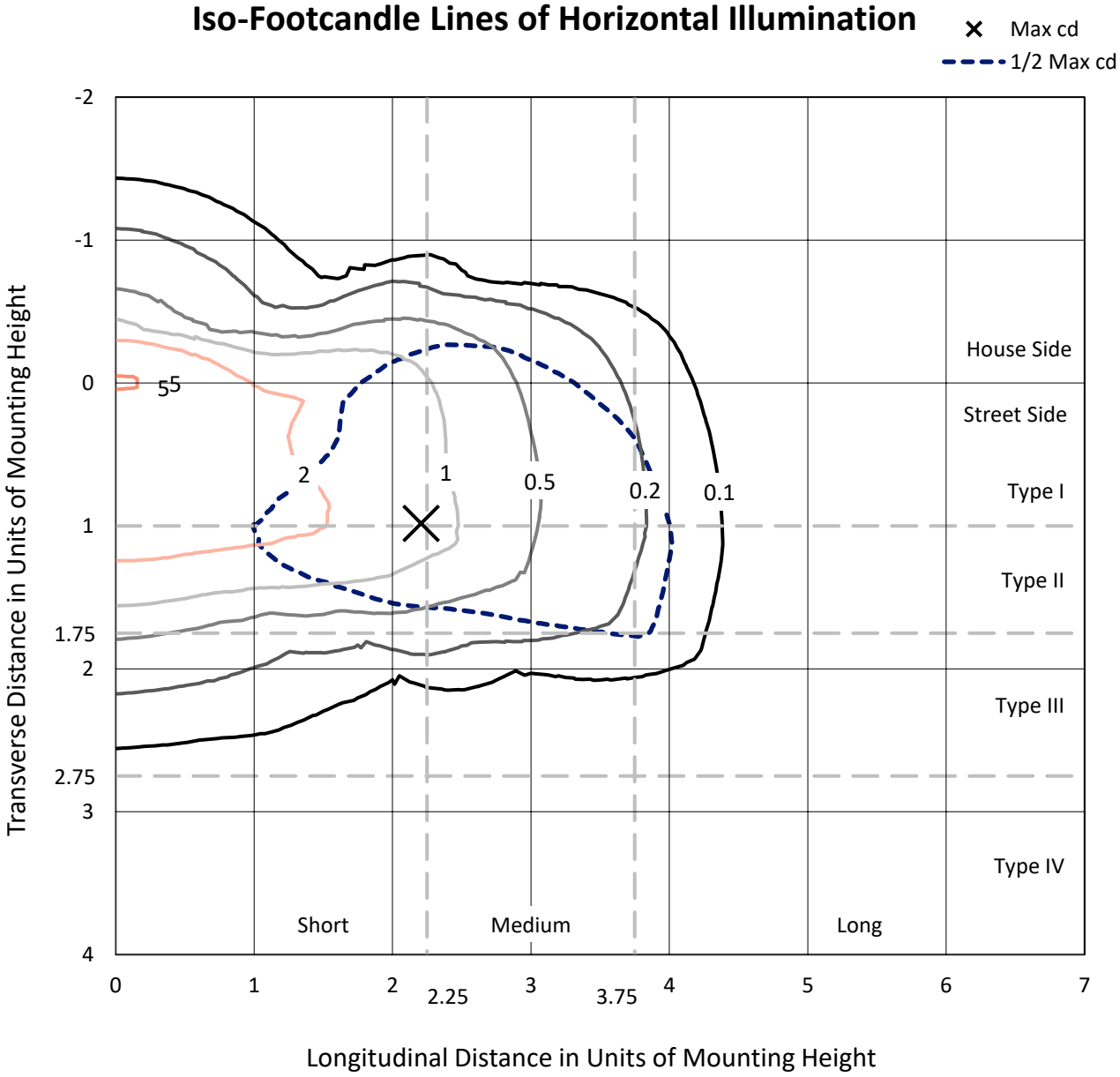
REPORT NUMBER: P637482
CATALOG NUMBER: GWS-SA4C-830-U-SL2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type II - Short - N/A

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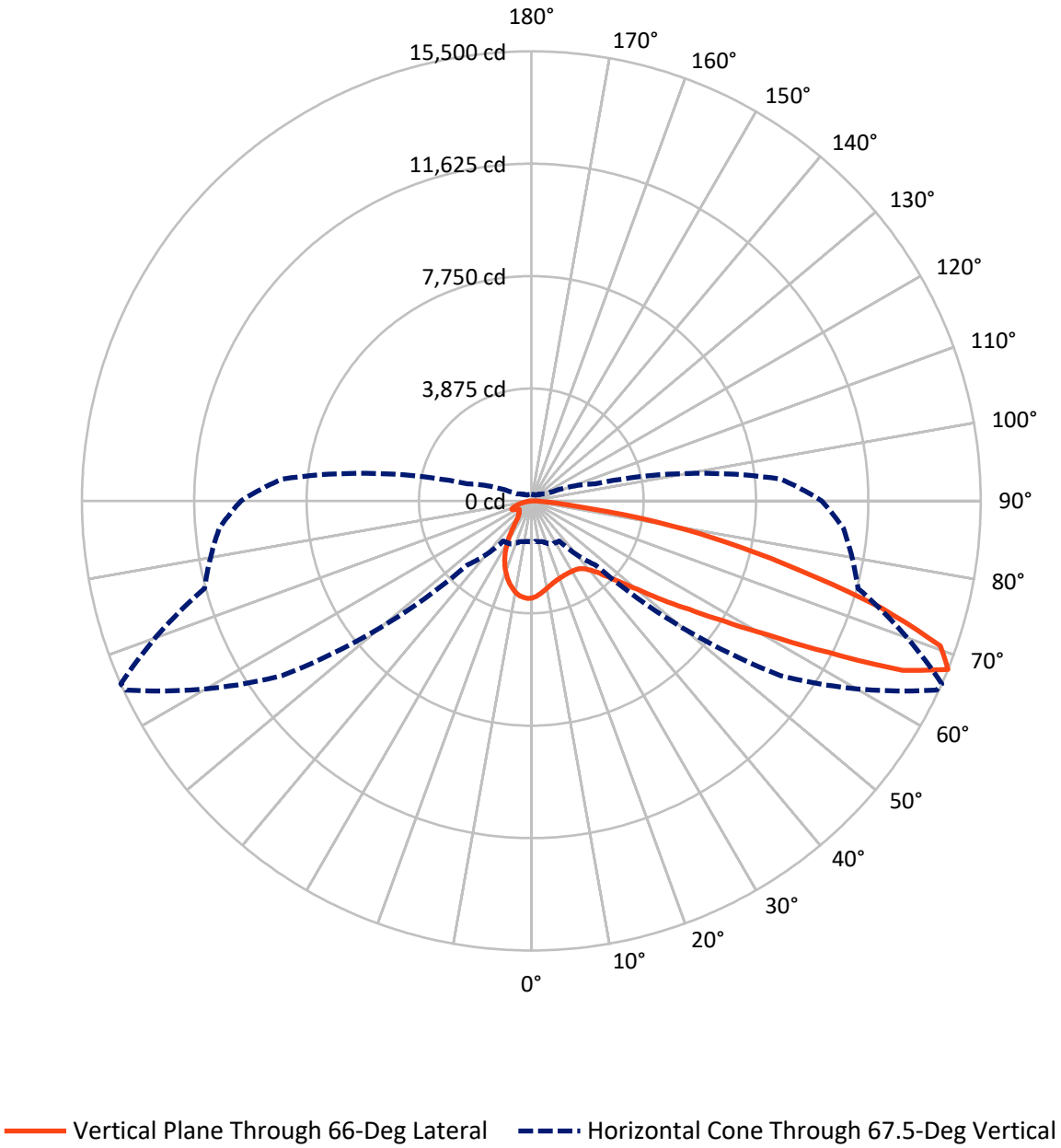
Luminous Intensity Polar Plot



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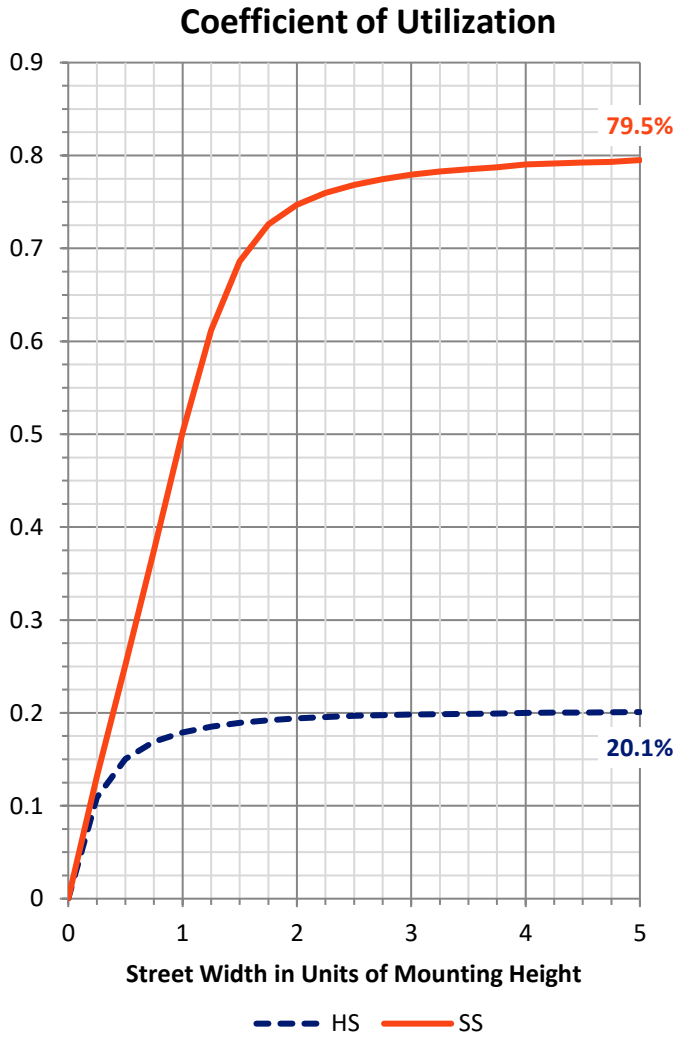
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3075.0	0.0	3075.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	12078.4	0.0	12078.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	15153.4	0.0	15153.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.9	1.9
10°-20°	722.2	4.8
20°-30°	992.7	6.6
30°-40°	1357.2	9.0
40°-50°	2056.5	13.6
50°-60°	3196.9	21.1
60°-70°	3892.2	25.7
70°-80°	2370.9	15.6
80°-90°	270.8	1.8
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°	15153.4	100.0
0°-180°	15153.4	100.0



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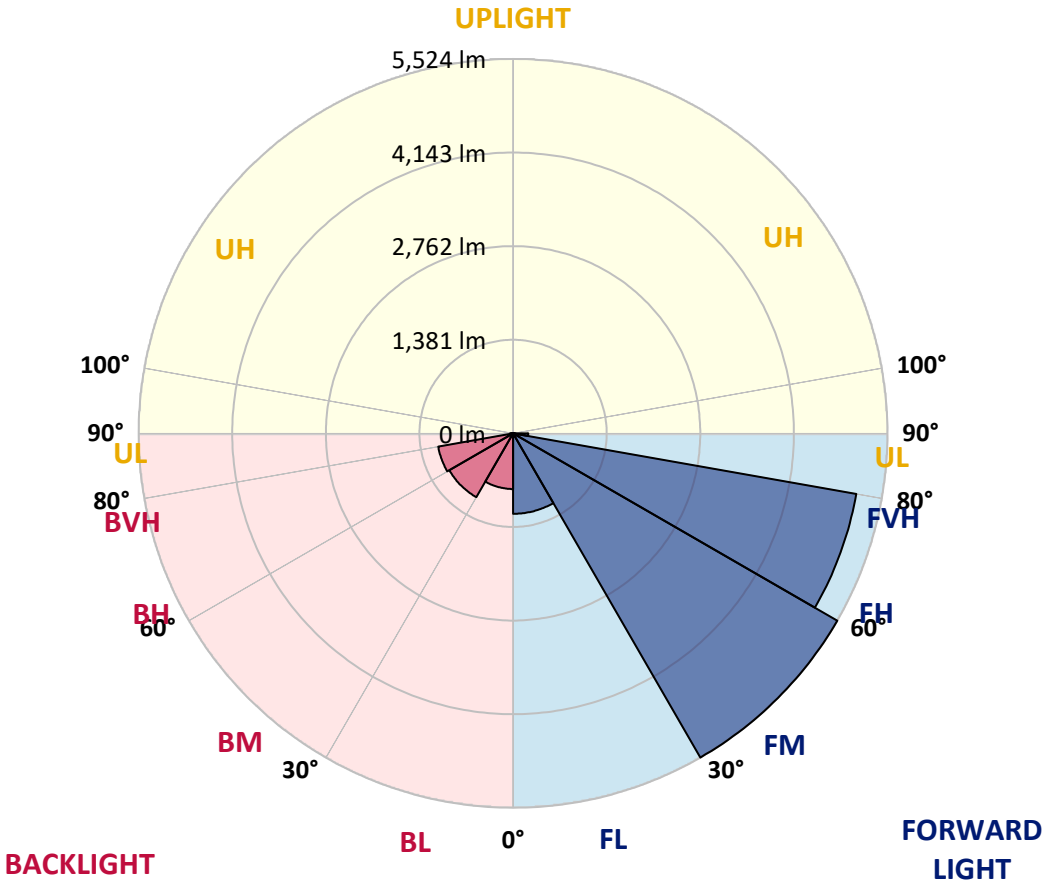
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1187.3	7.8			
FM	(30°-60°)	5524.0	36.5			
FH	(60°-80°)	5141.9	33.9			G3/7500
FVH	(80°-90°)	225.2	1.5			G3/500
BL	(0°-30°)	821.5	5.4	B2/1000		
BM	(30°-60°)	1086.7	7.2	B2/2500		
BH	(60°-80°)	1121.2	7.4	B3/2500		G3/2500
BVH	(80°-90°)	45.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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Scaled Data Report

REPORT NUMBER: P637482
CATALOG NUMBER: GWS-SA4C-830-U-SL2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	*3348.5*	3348.5	3348.5
2.5°	3136.2	3147.3	3140.6	3182.7	3184.9	3237.9	3267.8	3293.2	*3295.4*	3328.6	3350.7
5°	2921.8	2928.4	2928.4	2968.2	2994.7	3065.5	3134.0	3207.0	*3212.5*	3292.1	3352.9
7.5°	2748.2	2754.8	2750.4	2803.5	2837.7	2916.2	3003.6	3115.2	*3126.3*	3254.5	3360.6
10°	2612.2	2610.0	2621.1	2669.7	2713.9	2807.9	2905.2	3032.3	*3048.9*	3211.4	3369.5
12.5°	2519.4	2521.6	2528.2	2579.1	2626.6	2719.5	2820.1	2958.2	*2975.9*	3161.6	3365.1
15°	2475.1	2470.7	2476.3	2522.7	2568.0	2649.8	2753.7	2896.3	*2914.0*	3117.4	3366.2
17.5°	2465.2	2461.9	2460.8	2493.9	2528.2	2604.5	2704.0	2848.8	*2867.6*	3088.7	3372.8
20°	2496.2	2491.7	2479.6	2493.9	2508.3	2572.4	2668.6	2814.5	*2835.5*	3069.9	3386.1
22.5°	2581.3	2573.5	2554.7	2537.1	2518.3	2557.0	2646.5	2789.1	*2810.1*	3057.7	3399.3
25°	2710.6	2704.0	2684.1	2644.3	2575.7	2569.1	2642.1	2778.0	*2799.1*	3048.9	3404.9
27.5°	2888.6	2878.6	2858.7	2801.3	2689.6	2614.4	2658.7	2776.9	*2796.8*	3038.9	3399.3
30°	3099.7	3093.1	3082.1	3012.4	2863.2	2710.6	2696.2	2785.8	*2801.3*	3033.4	3388.3
32.5°	3314.2	3307.6	3316.4	3283.2	3099.7	2869.8	2778.0	2810.1	*2821.2*	3032.3	3378.3
35°	3503.2	3511.0	3575.1	3580.6	3400.4	3085.4	2907.4	2866.5	*2868.7*	3054.4	3382.7
37.5°	3701.1	3731.0	3815.0	3886.8	3736.5	3370.6	3099.7	2972.6	*2970.4*	3110.8	3410.4
40°	3963.1	3976.4	4083.6	4218.5	4124.5	3761.9	3372.8	3146.2	*3130.7*	3225.8	3484.4
42.5°	4218.5	4250.5	4421.9	4576.6	4545.7	4203.0	3716.6	3406.0	*3378.3*	3429.2	3637.0
45°	4543.5	4574.4	4766.8	4965.8	5022.2	4701.6	4156.6	3775.2	*3747.5*	3735.4	3916.7
47.5°	4868.5	4900.6	5073.0	5360.4	5558.3	5325.1	4729.2	4262.7	*4217.4*	4169.8	4339.0
50°	5087.4	5125.0	5289.7	5634.6	6098.9	6103.3	5408.0	4901.7	*4844.2*	4769.0	4933.7
52.5°	5079.6	5104.0	5260.9	5658.9	6488.0	6997.6	6316.7	5715.3	*5668.9*	5505.2	5649.0
55°	4680.6	4717.0	4875.1	5372.6	6530.0	7845.5	7652.1	6674.8	*6591.9*	6299.0	6457.1
57.5°	3879.1	3910.1	4069.2	4682.8	6157.5	8280.0	9347.9	7897.5	*7783.6*	7163.5	7345.9
60°	2928.4	2890.8	2966.0	3503.2	5266.5	8291.0	10844.7	9555.7	*9365.5*	8087.6	8240.2
62.5°	2197.7	2160.1	2176.7	2328.1	3570.7	7621.1	11698.1	11824.1	*11510.2*	9131.2	9101.3
65°	1736.7	1715.7	1763.2	1867.1	2081.6	5803.7	11704.7	14277.2	*14079.3*	10340.6	9984.6
67.5°	*1415.0*	*1401.7*	*1450.4*	*1642.7*	*1688.1*	*3118.5*	*10495.3*	*15422.4*	*15499.8*	*11664.9*	*10803.8*
70°	1139.7	1119.8	1196.1	1449.3	1569.8	1887.0	7518.3	14838.7	*14963.7*	12454.2	10572.7
72.5°	787.1	788.2	826.9	1174.0	1515.6	1629.5	4252.7	12355.8	*12626.7*	11739.0	9294.8
75°	530.6	535.0	546.1	774.9	1396.2	1580.8	2266.2	9354.5	*9545.7*	9702.7	7683.0
77.5°	320.6	322.8	348.2	468.7	962.9	1475.8	1535.5	6781.0	*6931.3*	6396.3	4762.4
80°	185.7	193.5	216.7	314.0	650.0	1108.8	1188.4	4157.7	*4327.9*	2843.3	1513.4
82.5°	81.8	87.3	118.3	182.4	379.2	943.0	927.5	1642.7	*1618.4*	792.6	525.1
85°	14.4	17.7	25.4	57.5	139.3	497.5	719.7	725.2	*682.1*	300.7	217.8
87.5°	0.0	0.0	0.0	0.0	0.0	3.3	108.3	194.6	*193.5*	85.1	75.2
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: P637482
CATALOG NUMBER: GWS-SA4C-830-U-SL2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5
2.5°	3365.1	3335.2	3361.7	3365.1	3359.5	3355.1	3321.9	3293.2	3289.9	3258.9	3258.9
5°	3377.2	3349.6	3362.8	3337.4	3297.6	3256.7	3186.0	3137.3	3115.2	3075.4	3075.4
7.5°	3393.8	3365.1	3349.6	3286.6	3193.7	3104.2	2990.3	2895.2	2856.5	2800.2	2797.9
10°	3409.3	3372.8	3319.7	3197.0	3048.9	2906.3	2740.5	2605.6	2513.8	2446.4	2446.4
12.5°	3408.2	3360.6	3255.6	3074.3	2869.8	2663.1	2442.0	2238.6	2117.0	2012.0	2005.3
15°	3406.0	3340.7	3173.8	2931.7	2660.9	2374.6	2073.9	1808.6	1628.4	1525.5	1516.7
17.5°	3403.7	3315.3	3082.1	2769.2	2406.6	2016.4	1619.5	1332.1	1181.7	1118.7	1120.9
20°	3403.7	3286.6	2983.7	2582.4	2113.7	1587.5	1188.4	979.4	941.9	945.2	948.5
22.5°	3393.8	3251.2	2874.2	2379.0	1787.5	1167.4	876.6	805.9	825.8	856.7	861.2
25°	3370.6	3192.6	2747.1	2153.5	1399.5	850.1	715.2	702.0	738.5	777.1	788.2
27.5°	3334.1	3125.2	2604.5	1889.2	1030.3	683.2	629.0	627.9	656.6	685.4	695.3
30°	3295.4	3050.0	2454.1	1595.2	746.2	594.7	573.7	573.7	588.1	605.8	603.6
32.5°	3250.1	2973.7	2292.7	1289.0	608.0	545.0	538.4	535.0	537.3	543.9	543.9
35°	3211.4	2906.3	2126.9	965.1	545.0	517.4	510.7	503.0	499.7	495.3	497.5
37.5°	3197.0	2853.2	1955.6	727.4	514.0	497.5	486.4	475.4	467.6	465.4	464.3
40°	3220.2	2831.1	1784.2	599.2	491.9	476.5	464.3	449.9	443.3	443.3	443.3
42.5°	3310.9	2847.7	1609.6	541.7	476.5	458.8	441.1	427.8	425.6	427.8	428.9
45°	3476.7	2911.8	1428.3	512.9	463.2	441.1	420.1	410.1	410.1	412.3	412.3
47.5°	3773.0	3079.8	1249.2	495.3	449.9	426.7	404.6	394.7	393.5	395.8	395.8
50°	4285.9	3382.7	1087.8	483.1	440.0	415.7	393.5	380.3	377.0	375.9	375.9
52.5°	4932.6	3907.8	985.0	474.2	427.8	403.5	381.4	363.7	357.1	353.8	353.8
55°	5714.2	4607.6	985.0	467.6	412.3	389.1	363.7	346.0	336.1	331.6	331.6
57.5°	6599.7	5422.3	1155.2	462.1	400.2	372.5	344.9	327.2	316.2	309.5	309.5
60°	7500.6	6283.5	1576.4	454.3	389.1	351.5	323.9	307.3	292.9	285.2	284.1
62.5°	8434.7	7232.0	2131.3	458.8	381.4	331.6	301.8	283.0	270.8	263.1	262.0
65°	9290.4	8135.2	2616.6	493.0	382.5	314.0	276.4	259.8	249.8	239.9	238.8
67.5°	*10016.7*	*8633.7*	*2276.2*	*562.7*	*405.7*	*292.9*	*250.9*	*234.4*	*225.5*	*218.9*	*217.8*
70°	9508.2	7873.2	1291.2	605.8	437.8	270.8	222.2	211.1	202.3	197.9	196.8
72.5°	8130.7	6666.0	863.4	535.0	399.1	242.1	195.7	186.8	180.2	174.7	173.6
75°	6586.4	5286.4	660.0	438.9	310.6	196.8	168.0	161.4	154.8	149.2	148.1
77.5°	3896.8	3054.4	486.4	347.1	218.9	153.7	139.3	133.8	127.1	122.7	121.6
80°	1243.7	1061.3	308.4	238.8	144.8	118.3	107.2	102.8	96.2	90.6	89.5
82.5°	474.2	410.1	163.6	121.6	96.2	80.7	71.9	67.4	63.0	57.5	56.4
85°	210.0	196.8	90.6	65.2	52.0	39.8	35.4	33.2	27.6	23.2	22.1
87.5°	74.1	74.1	38.7	18.8	11.1	5.5	3.3	1.1	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

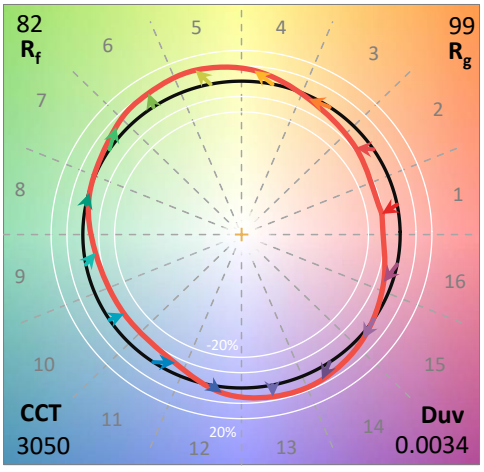
Test Information

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

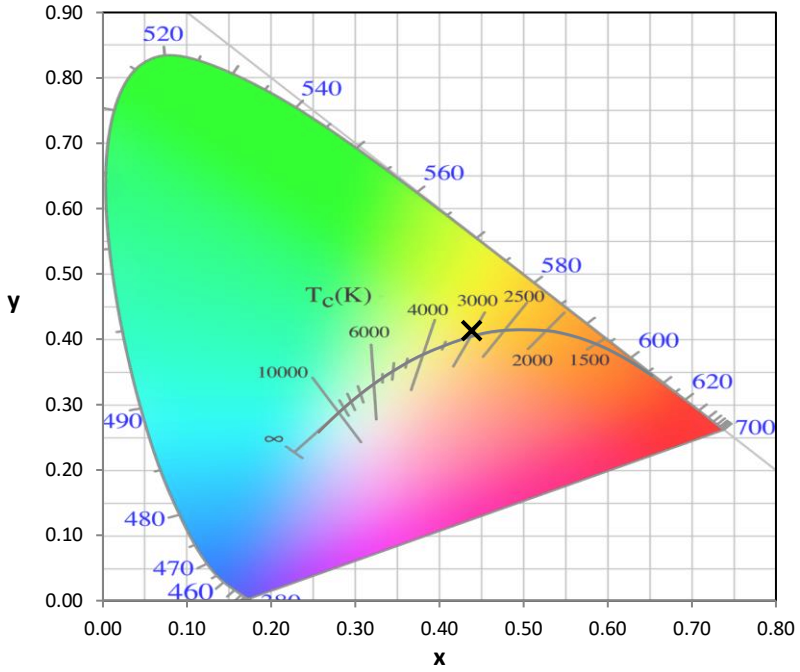
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

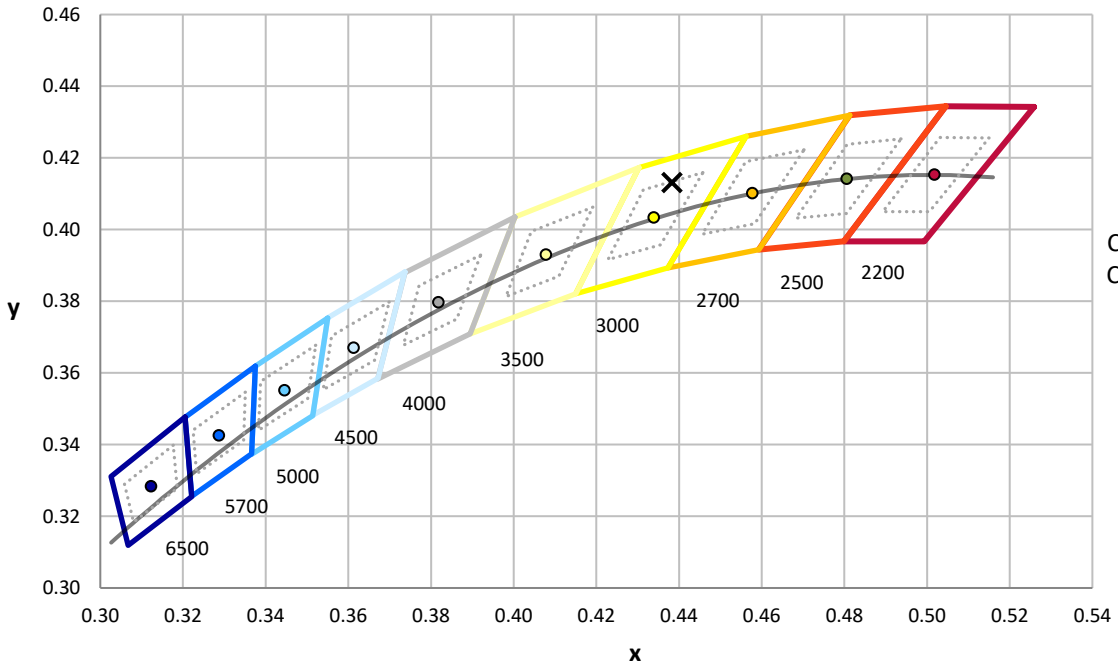
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

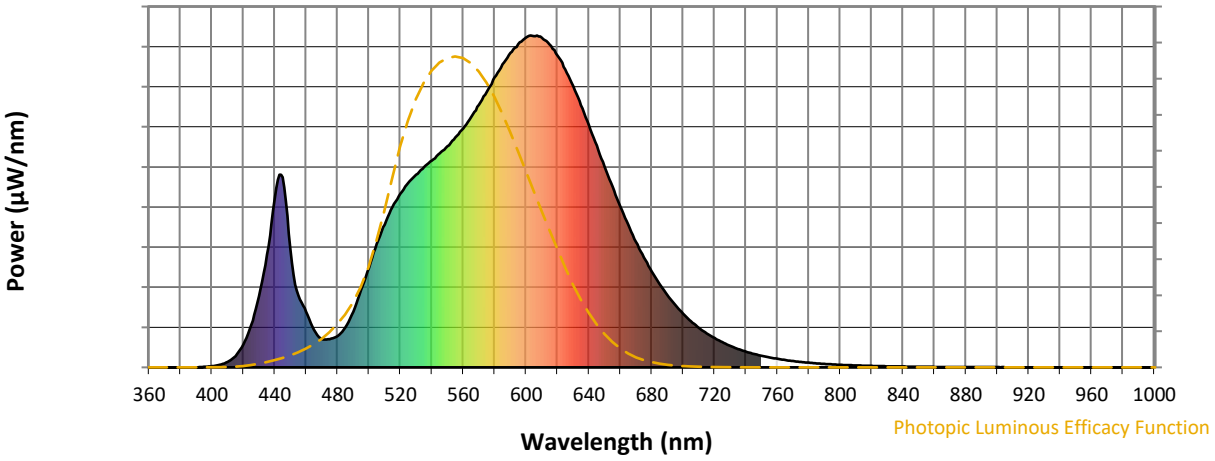


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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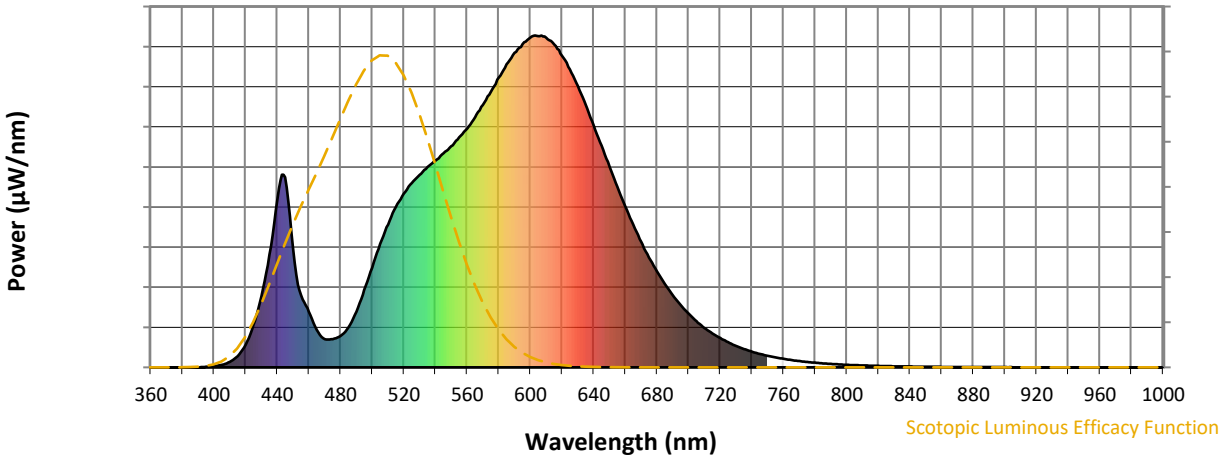
Scotopic Flux vs. Wavelength



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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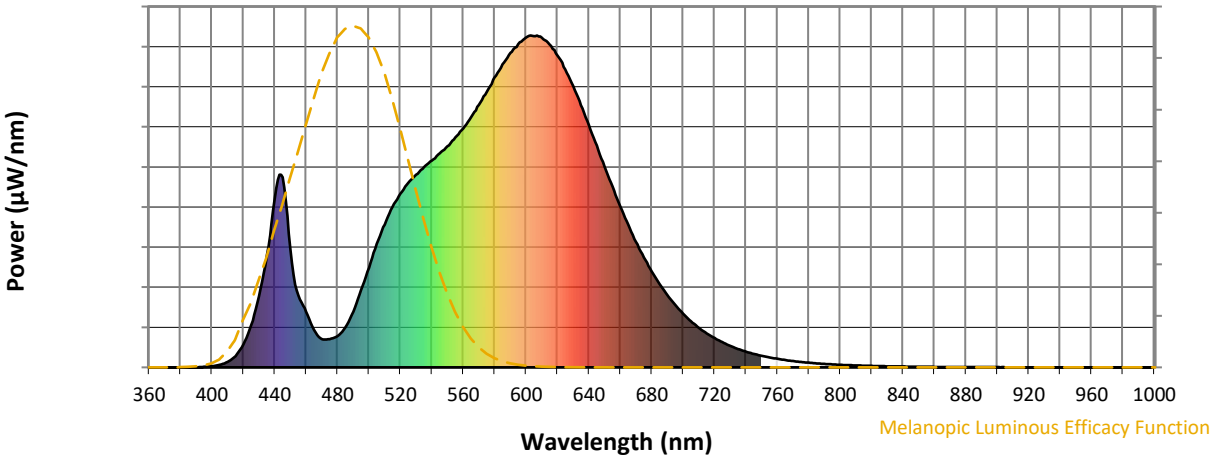
Melanopic Flux vs. Wavelength



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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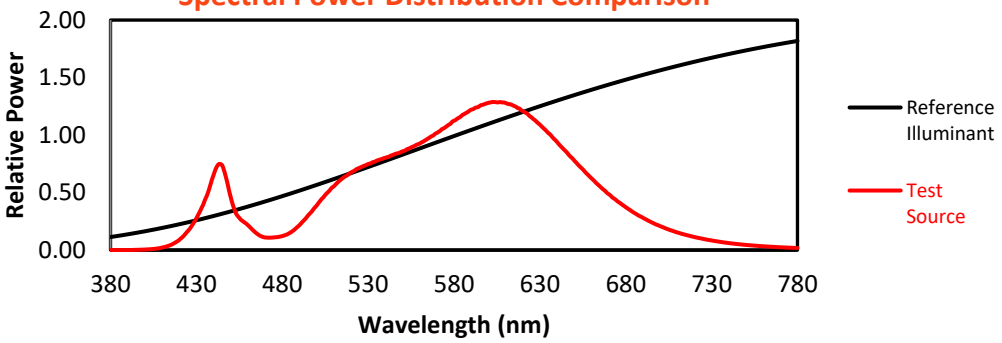
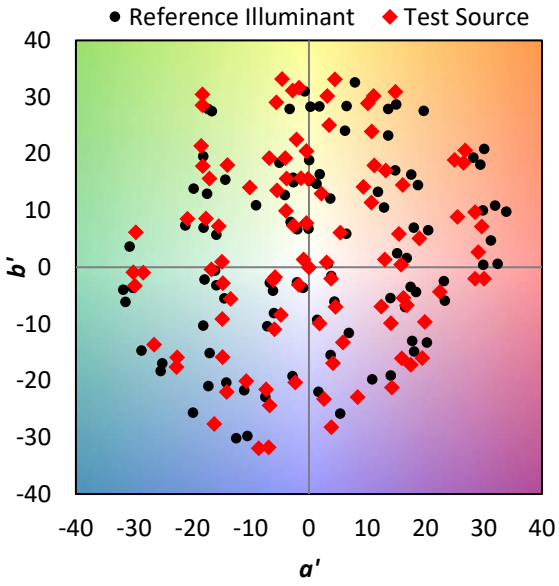
Summary

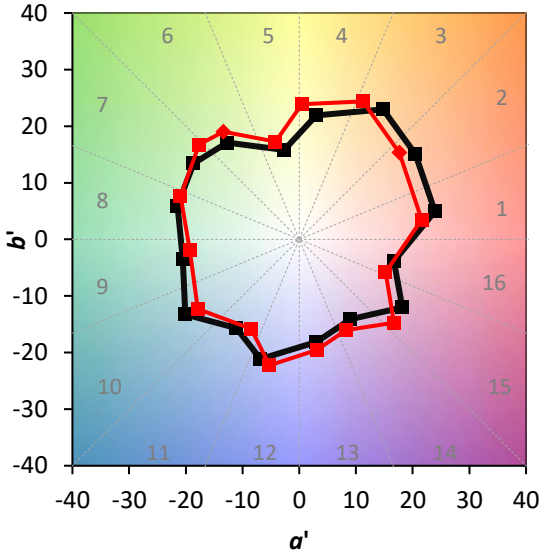
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

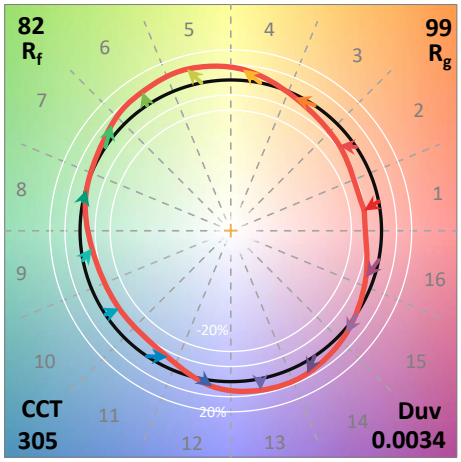
Spectral Power Distribution Comparison

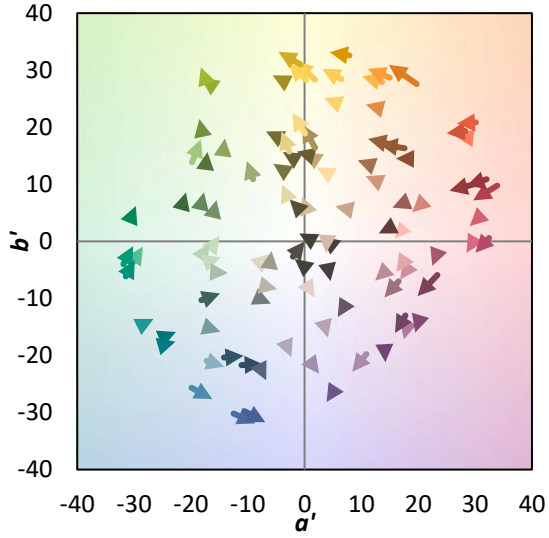


Color Vector Graphics









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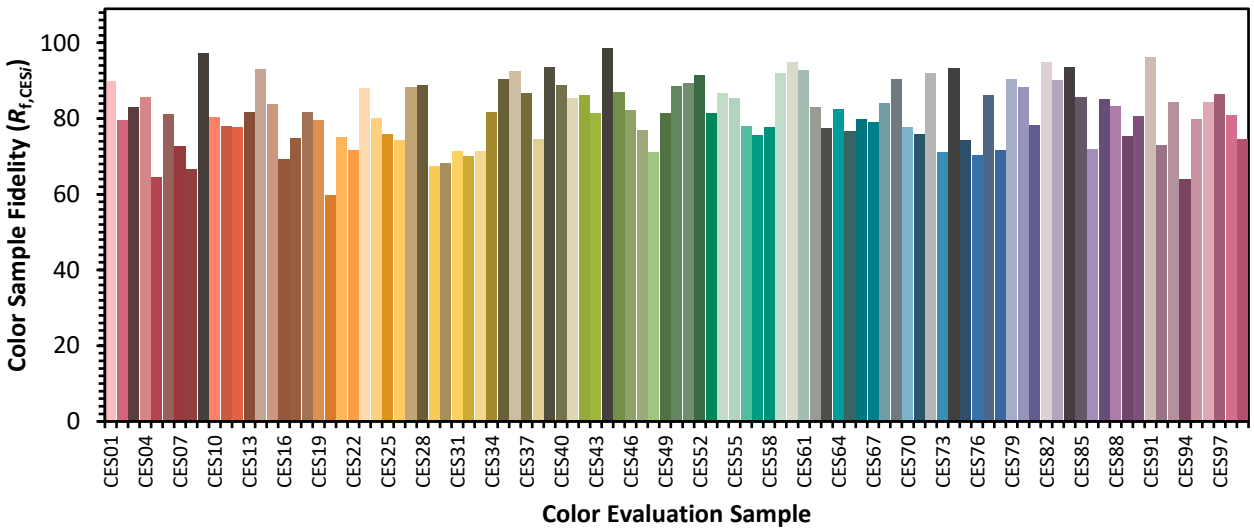
Individual Sample Fidelity Index ($R_{f,i}$)

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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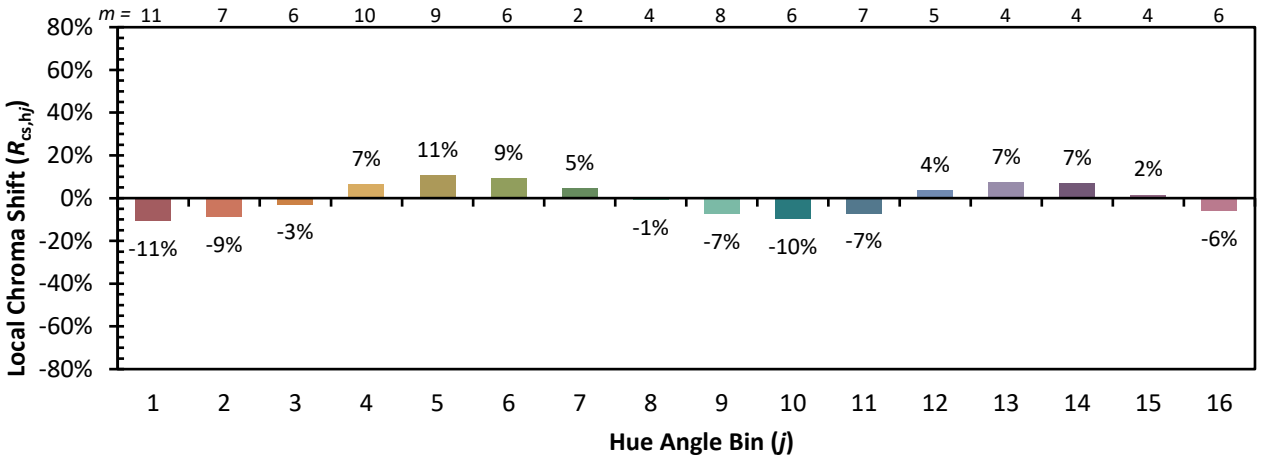
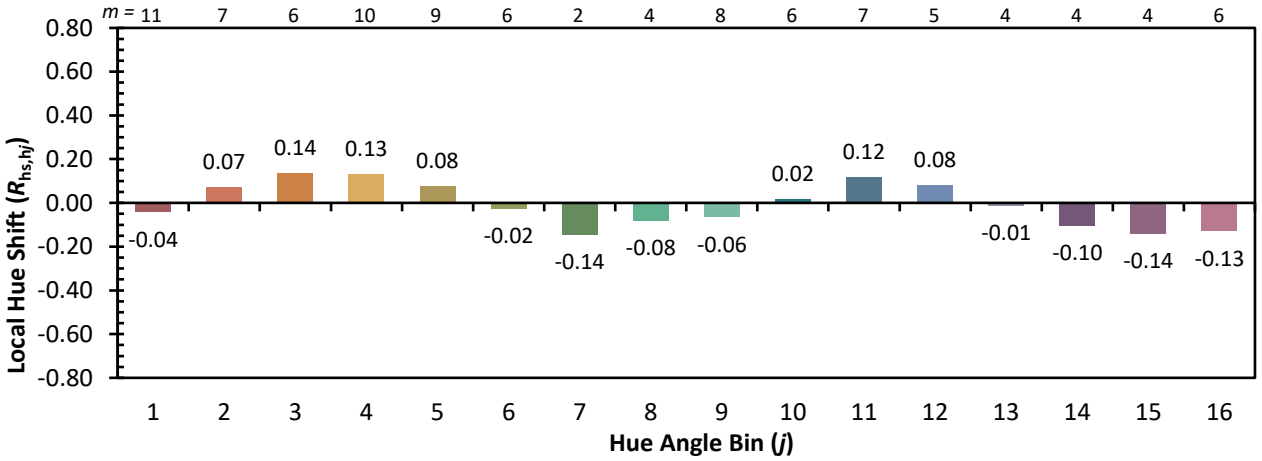
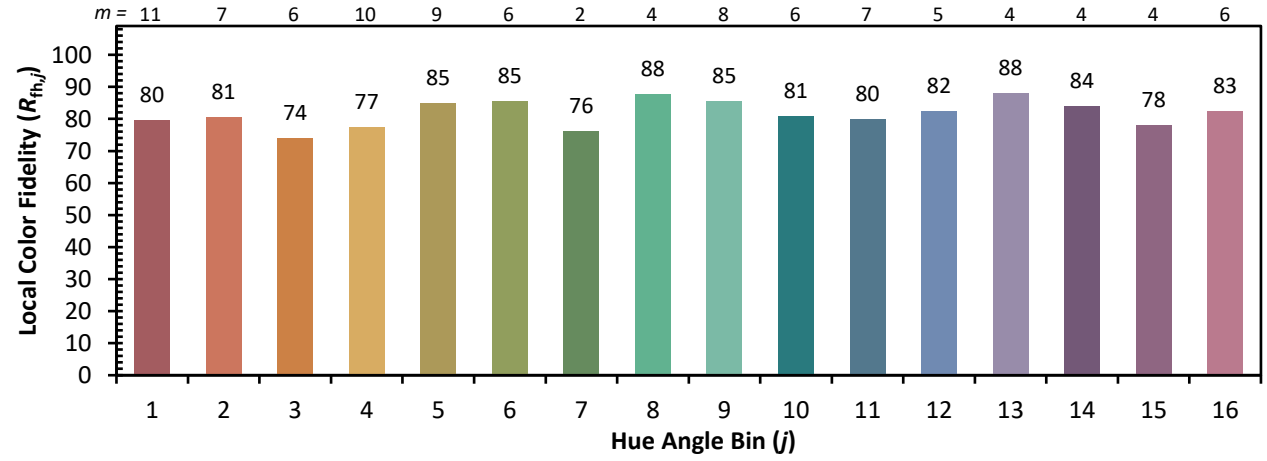
Color Rendition by Hue-Angle Bin







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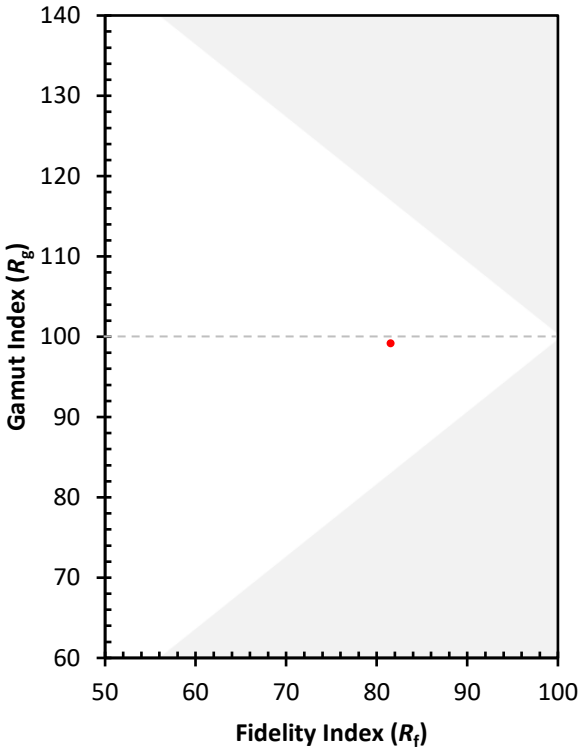
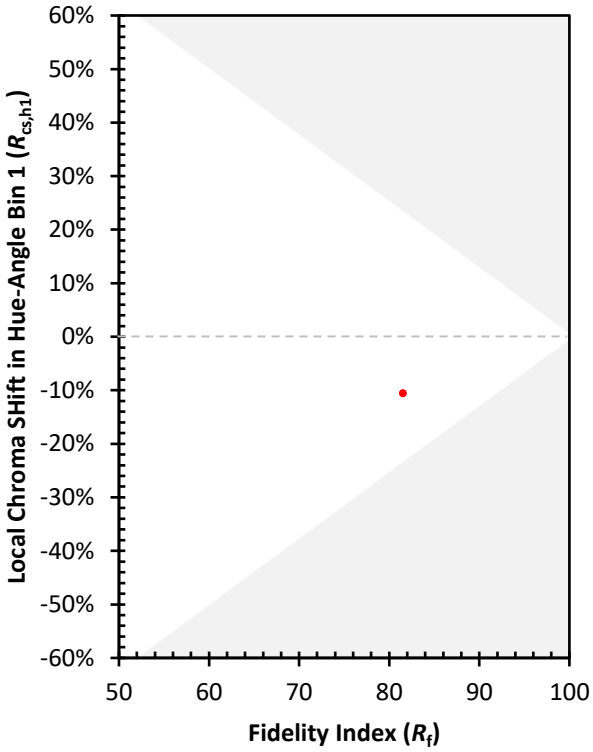
Measure Comparisons





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