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: P633524

Luminaire Tested: GWS-SA2E-830-U-SL3-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:	P633524
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2E-830-U-SL3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR 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:	9706.8 lumens
Efficiency:	N/A
Efficacy:	89.7 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	108.2
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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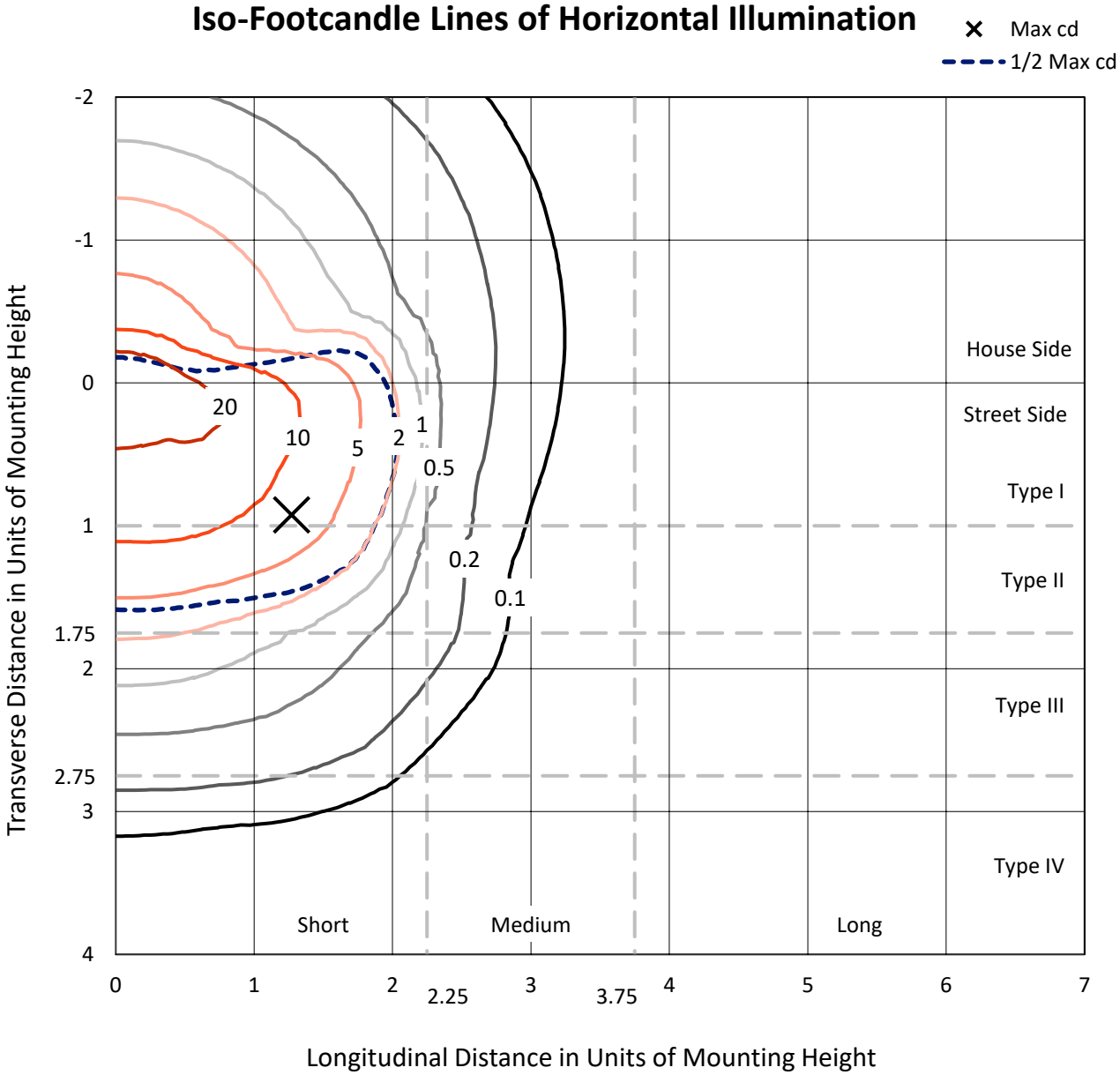
Scaled Data Report

REPORT NUMBER: P633524
CATALOG NUMBER: GWS-SA2E-830-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 37.3 fc
Type II - Short - N/A

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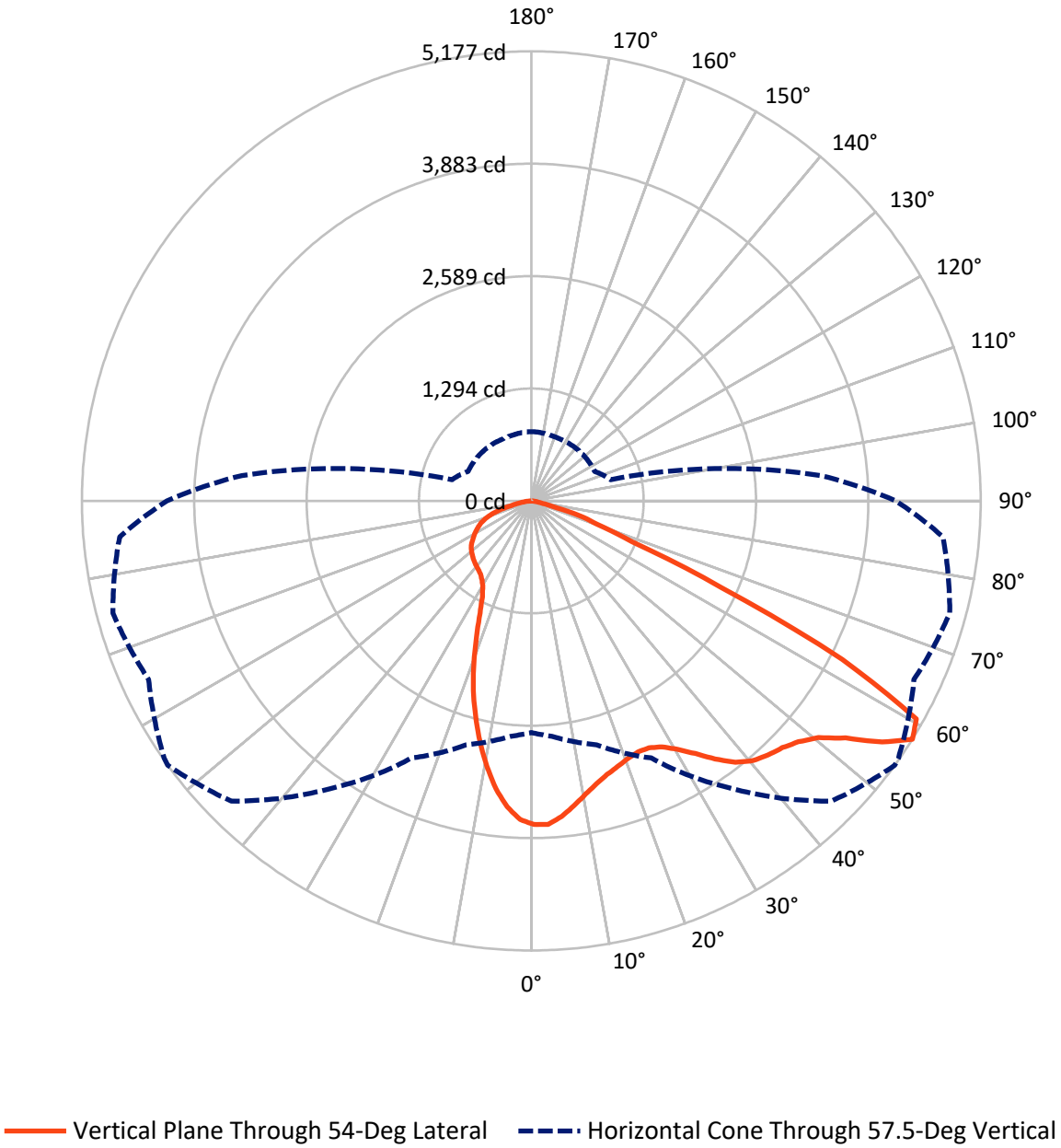
Luminous Intensity Polar Plot



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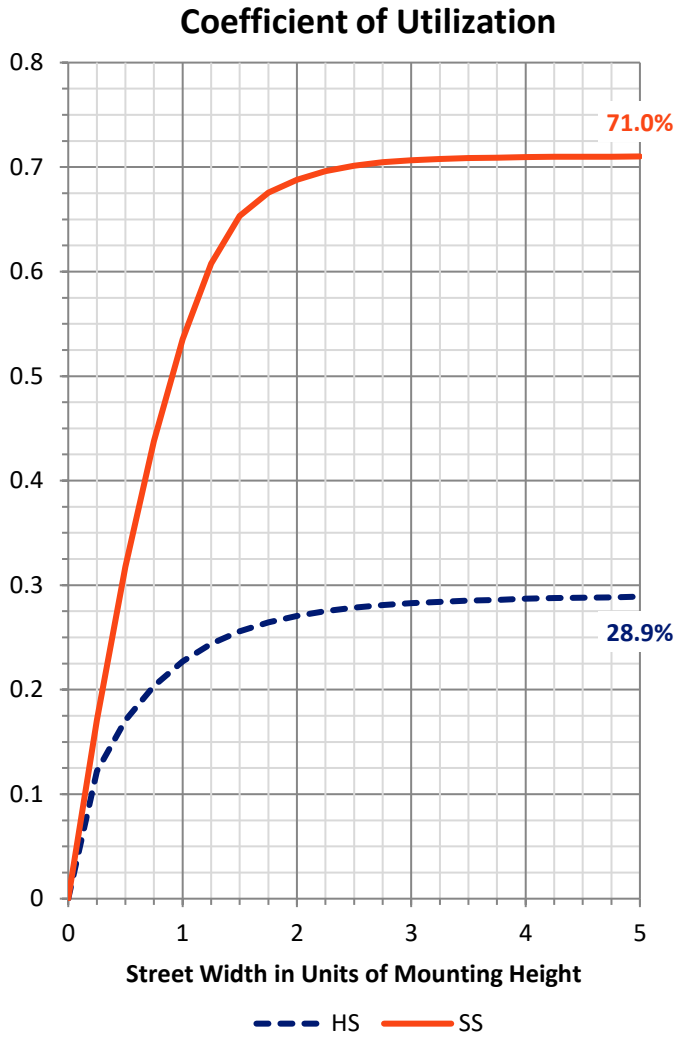
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2821.9	0.0	2821.9
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	6884.9	0.0	6884.9
	% Fixture	70.9	0.0	70.9
Total	Lumens	9706.8	0.0	9706.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.6	3.4
10°-20°	781.6	8.1
20°-30°	1081.6	11.1
30°-40°	1503.0	15.5
40°-50°	1984.9	20.4
50°-60°	2358.8	24.3
60°-70°	1306.8	13.5
70°-80°	325.4	3.4
80°-90°	37.0	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°	9706.8	100.0
0°-180°	9706.8	100.0



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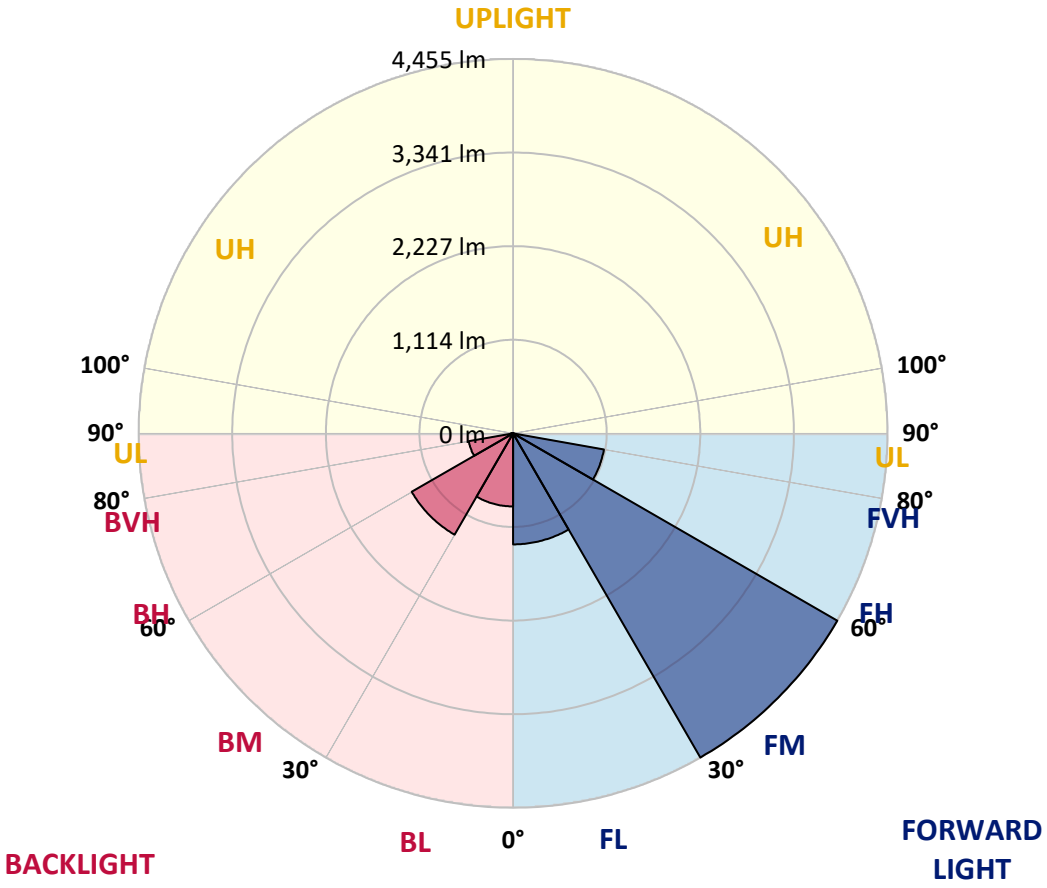
REPORT NUMBER: P633524
CATALOG NUMBER: GWS-SA2E-830-U-SL3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1321.3	13.6			
FM	(30°-60°)	4454.6	45.9			
FH	(60°-80°)	1097.5	11.3			G1/1800
FVH	(80°-90°)	11.6	0.1			G1/100
BL	(0°-30°)	869.6	9.0	B2/1000		
BM	(30°-60°)	1392.1	14.3	B2/2500		
BH	(60°-80°)	534.8	5.5	B2/1000		G2/1000
BVH	(80°-90°)	25.4	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: P633524
CATALOG NUMBER: GWS-SA2E-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7
2.5°	3656.9	3664.3	3669.3	3686.8	3701.7	3715.0	3729.2	3729.2	3728.3	3725.8	3720.8
5°	3512.3	3520.6	3532.2	3556.3	3588.7	3612.0	3650.2	3653.5	3670.2	3676.8	3673.5
7.5°	3344.4	3346.9	3361.9	3393.5	3445.0	3486.5	3541.4	3548.0	3587.9	3611.2	3607.0
10°	3160.8	3152.5	3179.1	3225.6	3292.9	3362.7	3433.3	3439.2	3503.1	3547.2	3543.9
12.5°	2993.0	2993.8	3020.4	3076.9	3160.8	3247.2	3341.9	3355.2	3434.2	3490.7	3484.9
15°	2852.5	2855.9	2888.3	2952.2	3047.8	3150.8	3268.8	3281.3	3381.0	3455.8	3439.2
17.5°	2740.4	2743.7	2771.9	2845.1	2947.3	3071.9	3215.6	3228.1	3351.9	3440.8	3406.8
20°	2663.1	2661.4	2688.8	2758.6	2864.2	2999.6	3169.1	3187.4	3342.8	3446.6	3385.2
22.5°	2631.5	2630.7	2650.6	2708.0	2806.8	2943.9	3140.9	3165.8	3352.7	3472.4	3371.9
25°	2647.3	2644.0	2661.4	2703.8	2782.7	2922.3	3149.2	3175.8	3395.1	3525.6	3374.4
27.5°	2696.3	2692.2	2707.1	2745.3	2805.2	2944.8	3207.3	3238.1	3484.9	3622.8	3407.6
30°	2771.1	2768.6	2783.6	2820.1	2872.5	3019.6	3318.7	3353.6	3623.6	3774.0	3479.9
32.5°	2858.4	2854.2	2880.8	2923.2	2983.8	3155.8	3468.2	3513.9	3788.1	3968.5	3601.2
35°	2956.4	2953.1	2989.6	3051.1	3138.4	3345.3	3649.4	3699.2	3956.0	4188.7	3762.4
37.5°	3052.0	3052.0	3122.6	3214.0	3323.7	3551.3	3819.7	3851.3	4072.3	4383.9	3935.2
40°	3136.7	3141.7	3248.1	3385.2	3524.7	3737.5	3931.9	3958.5	4123.8	4518.5	4085.6
42.5°	3230.6	3234.8	3358.6	3538.0	3704.2	3887.9	4000.0	4013.3	4133.8	4585.8	4192.0
45°	3305.4	3311.2	3464.9	3656.9	3860.4	4000.9	4054.0	4065.7	4147.9	4622.4	4269.2
47.5°	3344.4	3352.7	3528.9	3752.4	3966.0	4102.2	4143.0	4147.9	4206.1	4686.4	4362.3
50°	3337.8	3354.4	3553.0	3799.8	4044.1	4204.4	4285.9	4294.2	4324.9	4780.3	4471.2
52.5°	3396.8	3404.3	3604.5	3856.3	4155.4	4393.1	4534.3	4545.9	4531.8	4850.9	4536.0
55°	3298.7	3334.5	3540.5	3848.0	4324.9	4684.7	4902.4	4896.6	4719.6	4929.8	4644.0
57.5°	2668.1	2720.4	2909.0	3266.3	4045.7	4889.1	5177.4	5163.3	4865.0	4990.5	4761.2
60°	1847.1	1855.4	2025.8	2279.2	3122.6	4319.1	5096.8	5127.6	4891.6	4914.0	4544.3
62.5°	1477.4	1474.9	1490.7	1497.3	1985.9	3036.2	4023.3	4135.5	4064.0	3828.9	3220.6
65°	1261.3	1270.5	1317.0	1292.9	1296.2	1710.0	2403.8	2419.6	2369.8	2285.0	1703.4
67.5°	987.1	1002.9	1085.2	1179.1	1149.2	1101.0	1247.2	1239.7	977.2	756.1	624.8
70°	618.2	628.2	716.3	925.6	1000.4	904.0	801.8	798.5	523.5	430.4	472.0
72.5°	360.6	362.3	387.2	516.0	663.9	618.2	590.0	568.3	336.5	343.2	376.4
75°	198.6	198.6	197.8	222.7	261.7	231.8	224.3	218.5	225.2	255.1	280.0
77.5°	41.5	42.4	44.9	59.0	76.4	93.1	117.2	118.0	147.1	170.3	190.3
80°	19.1	19.9	24.9	31.6	40.7	54.0	71.5	72.3	88.9	107.2	120.5
82.5°	10.0	10.8	13.3	16.6	21.6	28.3	39.9	39.9	53.2	63.1	71.5
85°	3.3	3.3	5.0	6.6	9.1	11.6	15.8	15.8	23.3	30.7	35.7
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	3.3	3.3	4.2	5.0	8.3
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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REPORT NUMBER: P633524
CATALOG NUMBER: GWS-SA2E-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7
2.5°	3710.0	3684.3	3685.1	3690.1	3674.3	3650.2	3634.4	3614.5	3602.0	3599.5	3608.7
5°	3656.9	3627.0	3606.2	3584.6	3539.7	3486.5	3445.0	3410.9	3388.5	3380.2	3370.2
7.5°	3583.7	3544.7	3492.3	3431.7	3350.3	3255.5	3189.1	3126.7	3083.5	3071.1	3065.3
10°	3510.6	3454.1	3361.1	3248.1	3112.6	2984.7	2864.2	2771.9	2698.8	2657.3	2670.6
12.5°	3435.0	3365.2	3219.8	3046.1	2857.5	2664.7	2506.9	2354.0	2236.0	2177.0	2159.6
15°	3368.5	3273.8	3071.1	2835.9	2585.0	2342.4	2113.9	1884.5	1735.0	1653.5	1631.1
17.5°	3312.0	3189.1	2914.0	2621.5	2321.6	1975.9	1695.1	1482.4	1380.2	1335.3	1332.0
20°	3256.4	3106.0	2758.6	2390.5	2017.5	1630.3	1379.3	1279.6	1243.1	1227.3	1226.4
22.5°	3206.5	3018.7	2595.0	2159.6	1715.0	1370.2	1232.2	1189.0	1179.1	1179.1	1177.4
25°	3164.1	2931.5	2427.1	1914.4	1441.6	1219.8	1155.8	1137.5	1141.7	1149.2	1150.0
27.5°	3146.7	2863.3	2265.1	1662.7	1253.0	1132.5	1103.5	1101.0	1112.6	1124.2	1125.9
30°	3165.0	2816.8	2098.9	1421.7	1140.0	1079.4	1066.1	1071.1	1085.2	1096.8	1096.8
32.5°	3221.5	2793.5	1929.4	1245.5	1074.4	1042.0	1037.8	1042.8	1053.6	1060.2	1061.1
35°	3317.0	2802.7	1754.1	1126.7	1032.0	1014.5	1013.7	1017.0	1021.2	1025.4	1026.2
37.5°	3437.5	2843.4	1566.3	1057.8	1004.6	994.6	992.9	992.1	992.9	992.9	993.8
40°	3555.5	2904.9	1398.4	1017.0	985.5	977.2	973.0	967.2	966.4	964.7	963.9
42.5°	3642.7	2952.2	1264.7	988.0	968.0	958.0	953.1	943.9	943.1	942.3	941.4
45°	3708.4	2992.1	1153.3	959.7	949.7	940.6	929.8	921.5	923.1	924.8	924.8
47.5°	3782.3	3027.0	1071.9	933.1	927.3	918.2	904.9	899.1	904.9	910.7	910.7
50°	3872.1	3076.1	1005.4	906.5	904.0	893.2	881.6	879.1	885.8	894.1	894.1
52.5°	3937.7	3118.4	958.0	879.9	879.9	865.8	855.8	855.0	862.5	870.8	871.6
55°	4060.7	3217.3	941.4	849.2	845.9	835.1	827.6	821.8	830.9	838.4	838.4
57.5°	*4199.5*	*3348.6*	*945.6*	*805.2*	*801.0*	*797.7*	*791.9*	*785.2*	*787.7*	*796.0*	*796.8*
60°	3905.3	3094.3	899.9	761.1	758.6	757.0	749.5	737.9	741.2	747.8	748.7
62.5°	2727.9	2056.5	727.9	706.3	714.6	713.8	703.8	690.5	691.3	700.5	700.5
65°	1415.9	1112.6	639.0	656.4	668.9	663.9	647.3	635.7	634.0	645.6	643.1
67.5°	610.7	607.4	581.6	604.1	617.4	606.6	589.1	570.0	571.7	575.8	572.5
70°	491.9	506.9	517.7	541.8	552.6	532.6	513.5	502.7	493.6	492.7	486.9
72.5°	393.0	413.8	437.9	462.8	466.1	446.2	422.1	412.1	398.0	397.2	391.4
75°	295.8	313.3	332.4	352.3	352.3	333.2	317.4	312.4	295.8	290.8	285.8
77.5°	201.9	212.7	227.7	232.7	237.6	230.2	214.4	206.1	187.0	182.0	175.3
80°	127.1	134.6	143.7	147.1	152.1	142.9	130.5	121.3	108.0	103.9	100.5
82.5°	76.4	81.4	87.2	88.9	93.1	86.4	74.8	68.1	60.7	57.3	54.8
85°	39.1	41.5	44.9	45.7	44.9	38.2	34.1	30.7	25.8	24.9	23.3
87.5°	10.0	11.6	12.5	11.6	10.8	8.3	5.8	4.2	1.7	1.7	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

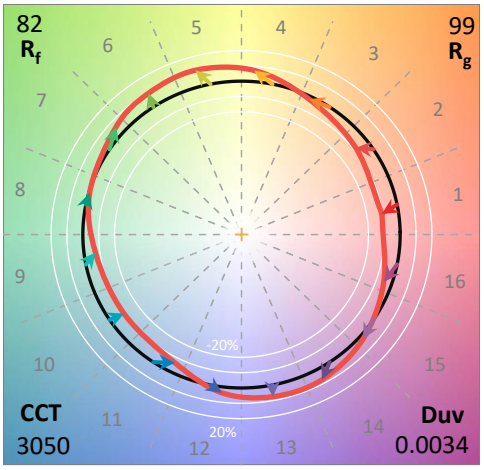
Test Information

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

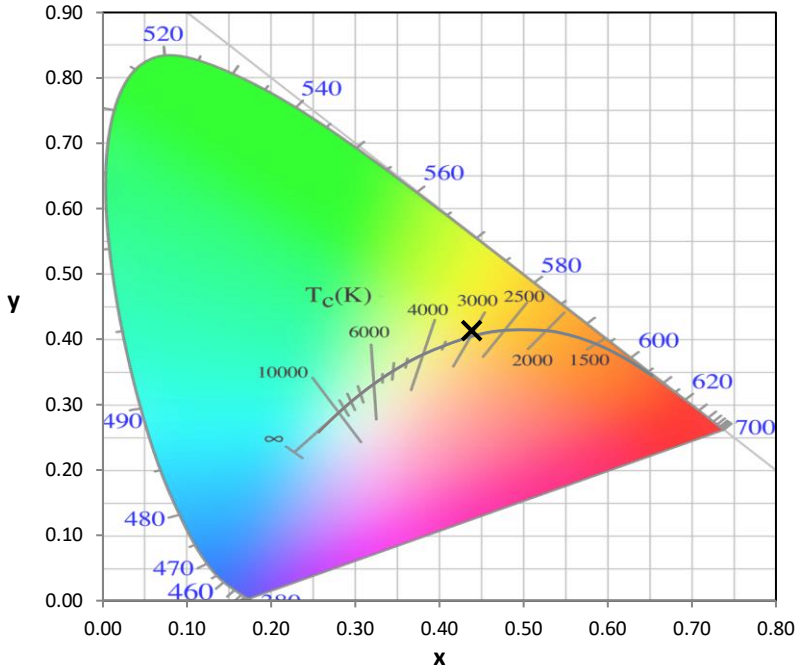
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

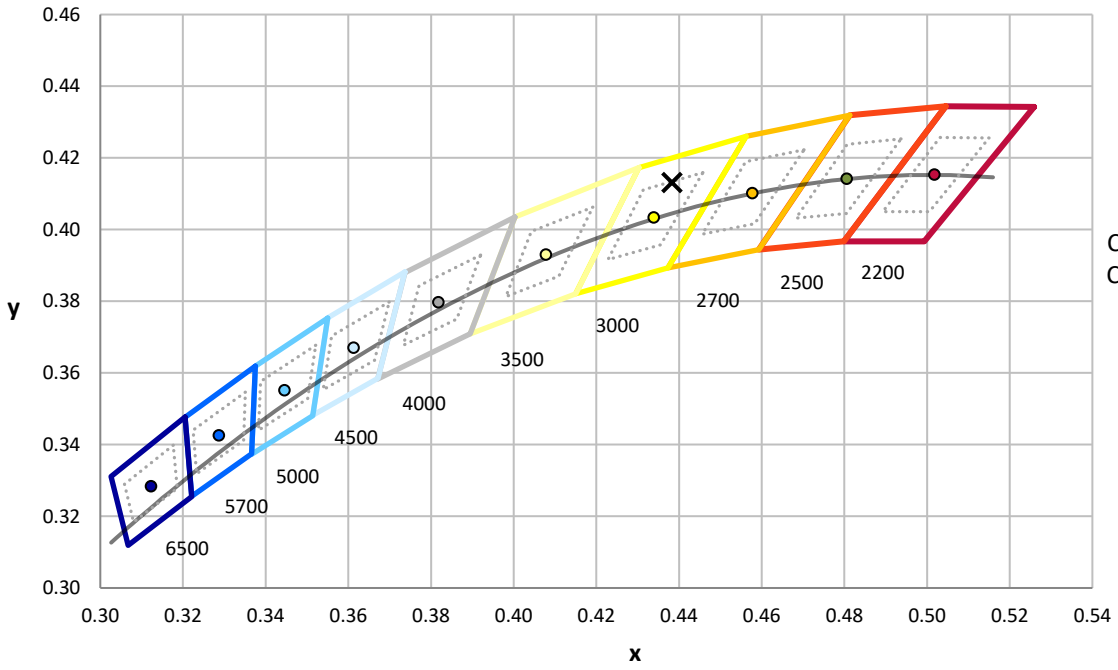
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

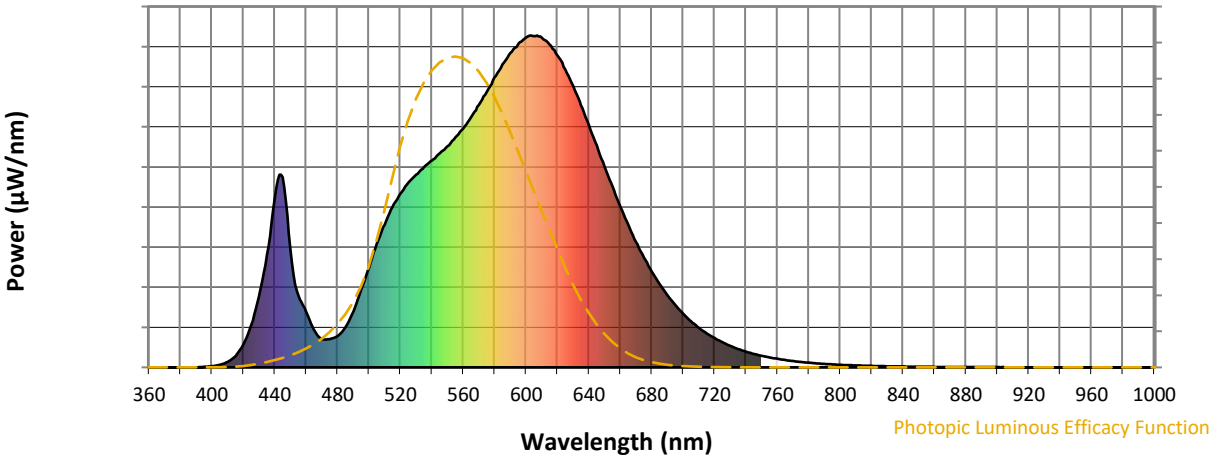


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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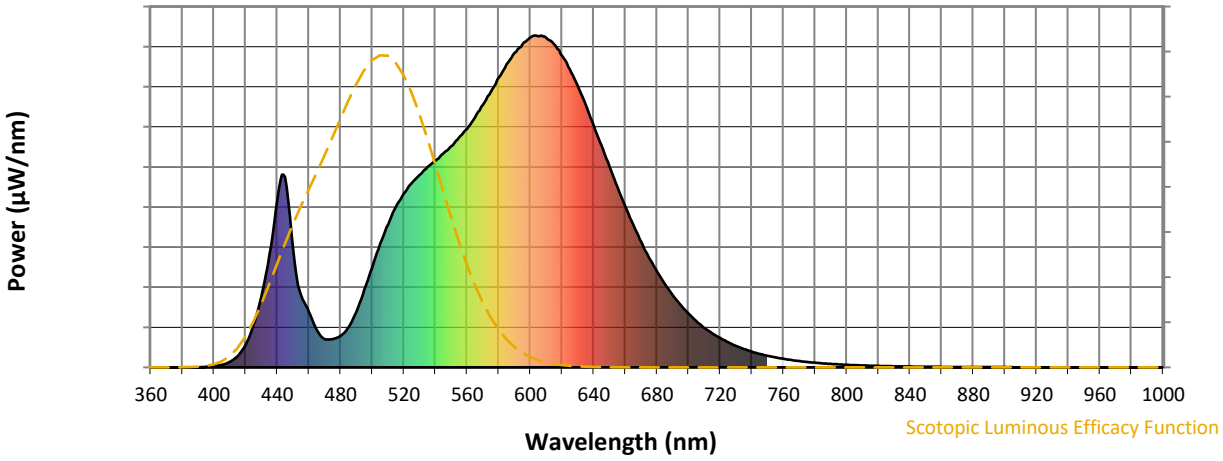
Scotopic Flux vs. Wavelength



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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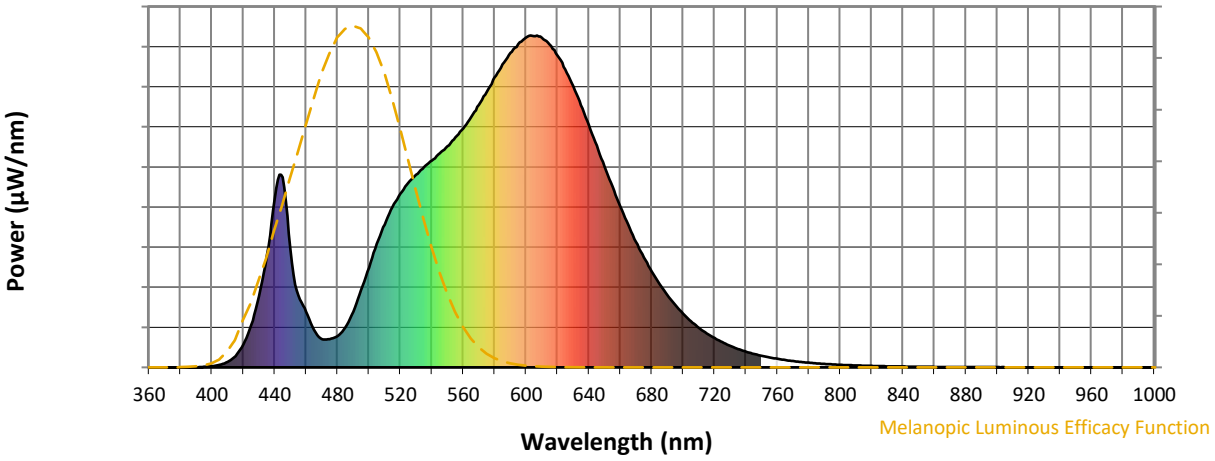
Melanopic Flux vs. Wavelength



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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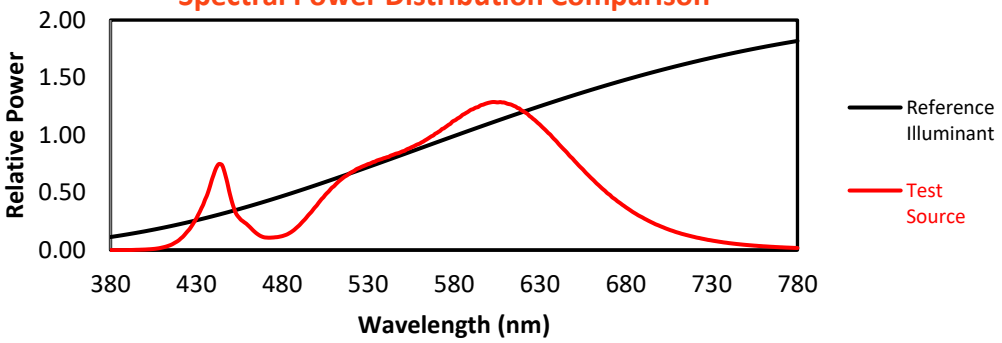
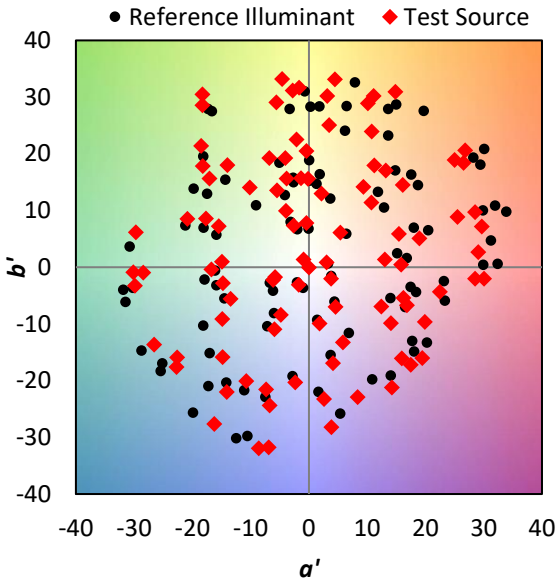
Summary

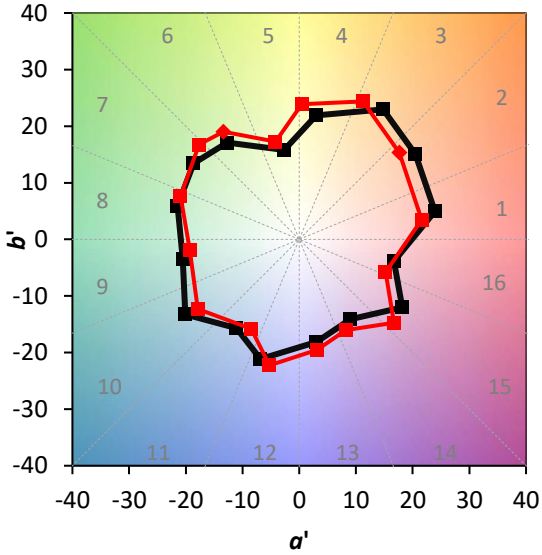
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

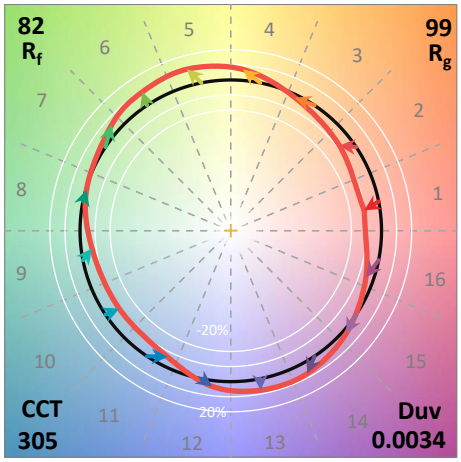
Spectral Power Distribution Comparison

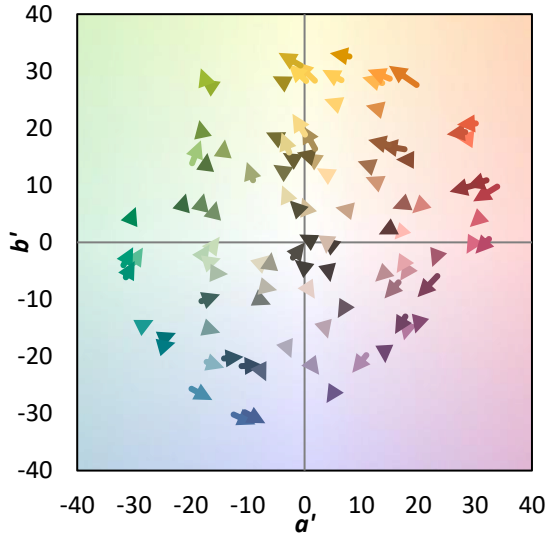


Color Vector Graphics









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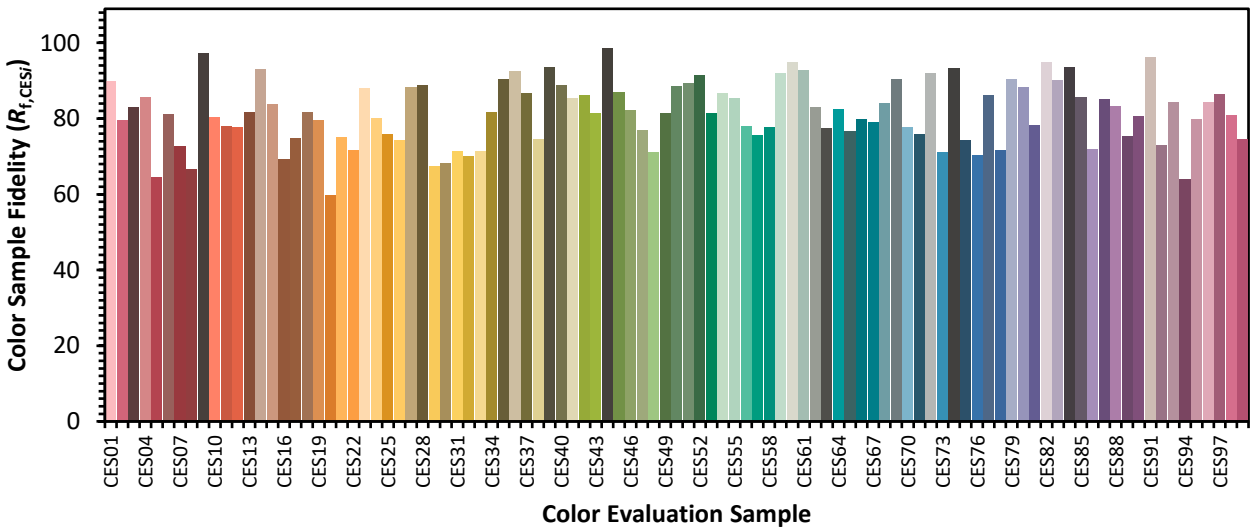
Individual Sample Fidelity Index ($R_{f,i}$)

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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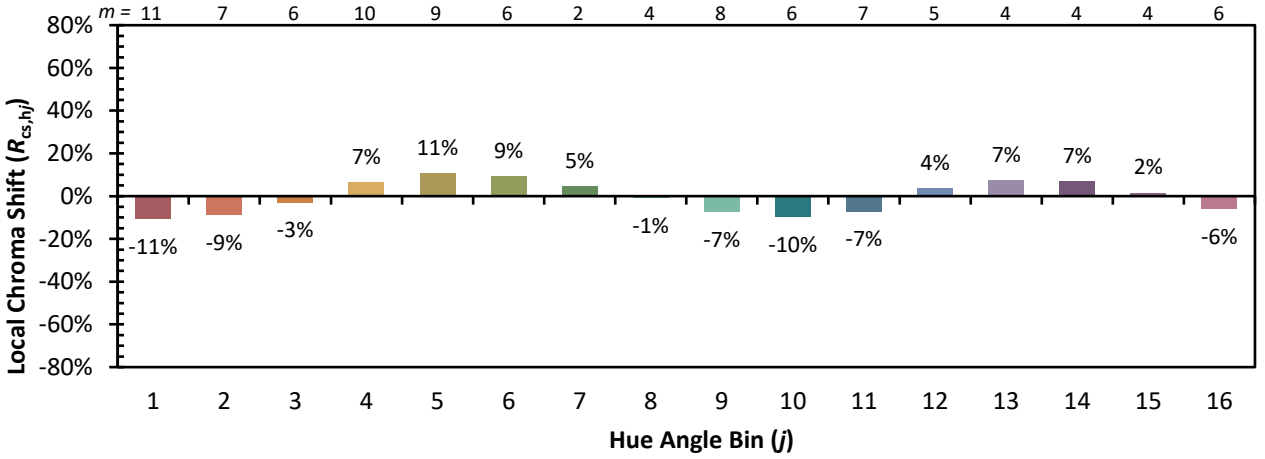
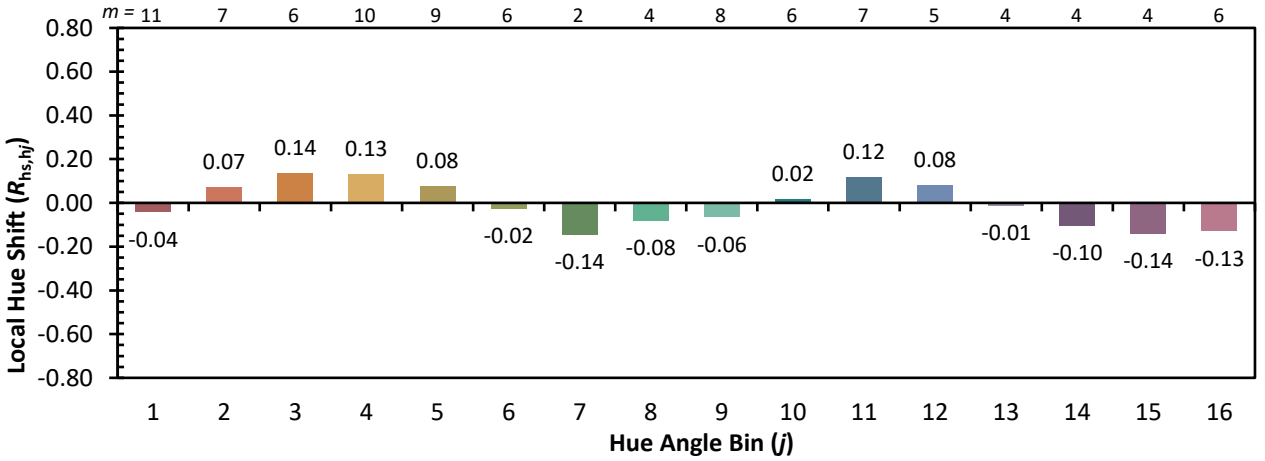
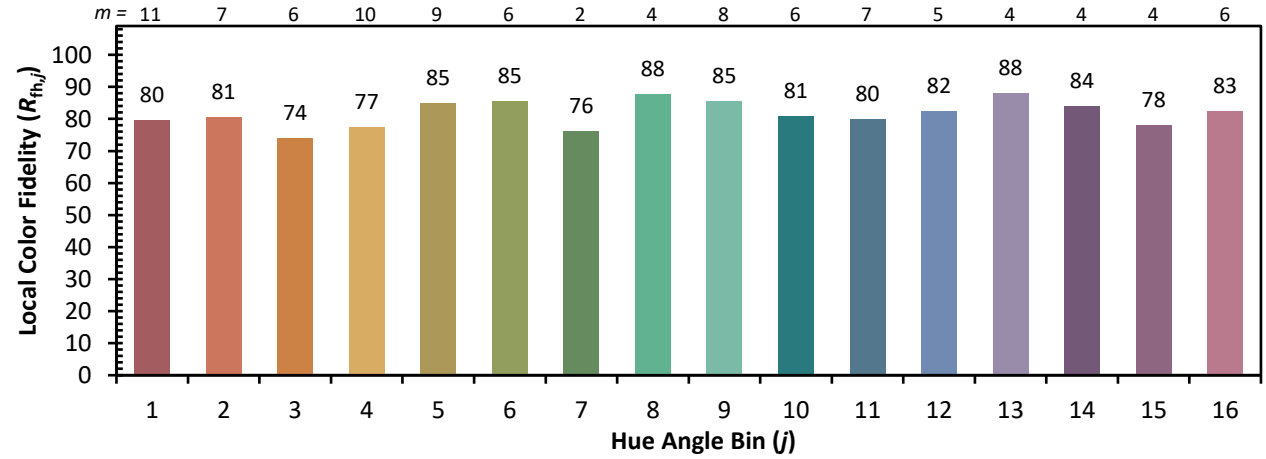
Color Rendition by Hue-Angle Bin







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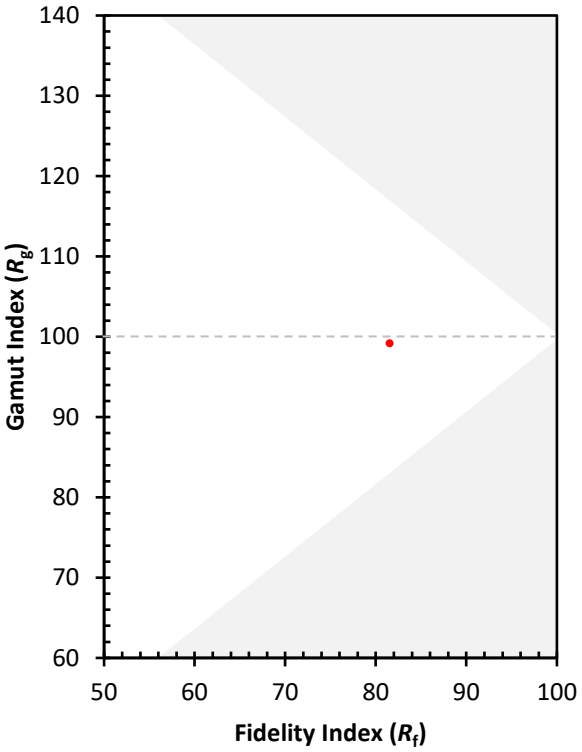
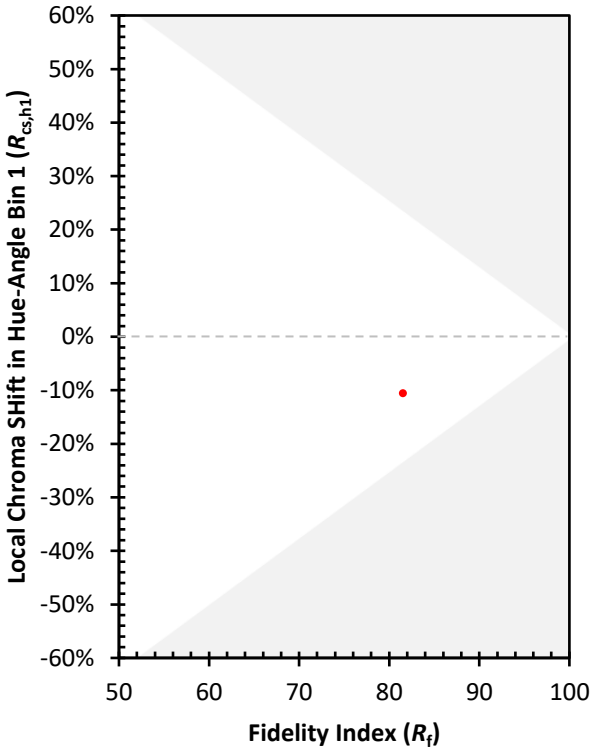
Measure Comparisons





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