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: P635009

Luminaire Tested: GWS-SA3C-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:	P635009
	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-SA3C-830-U-SL3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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:	9280 lumens
Efficiency:	N/A
Efficacy:	99.8 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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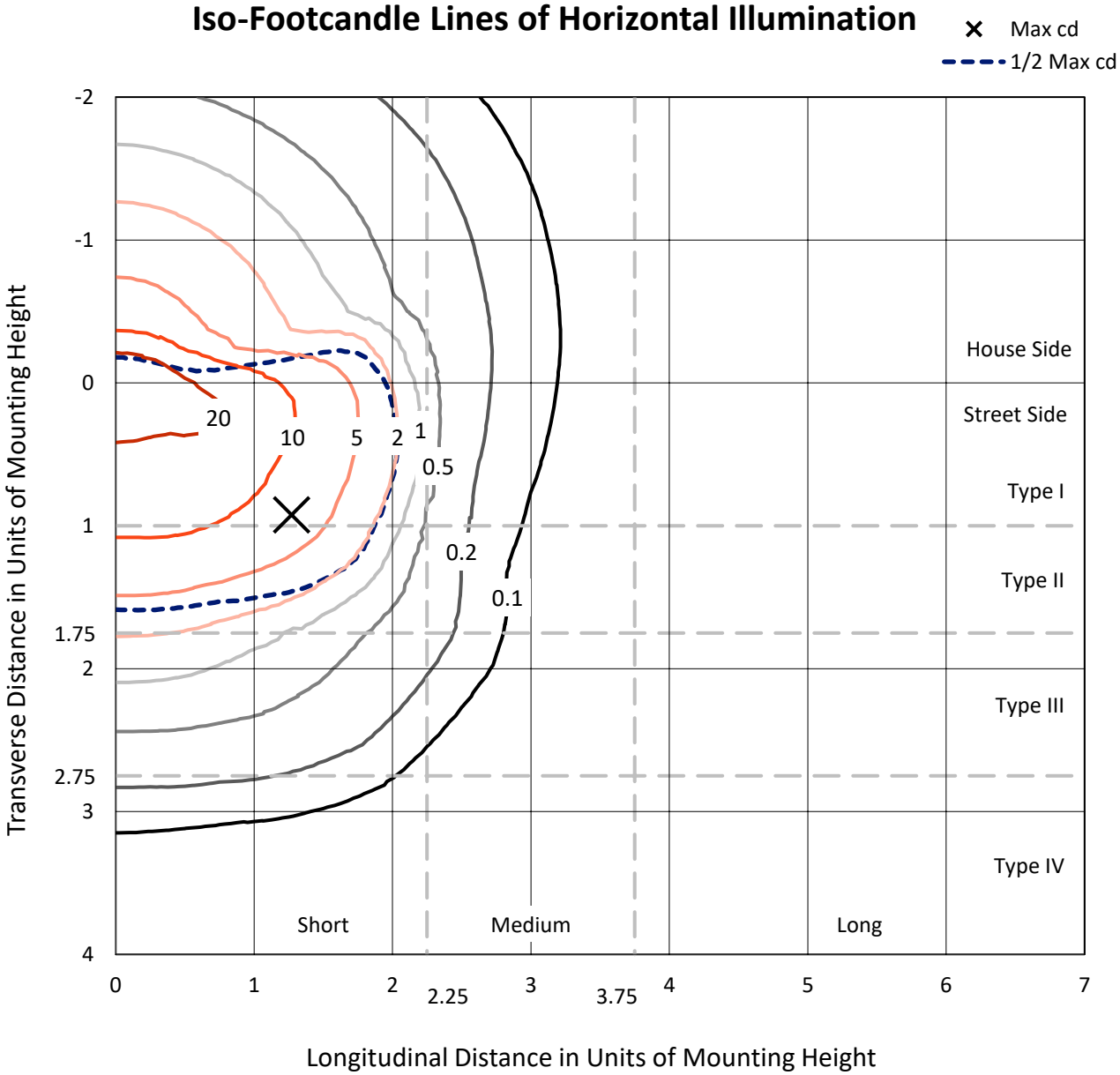
REPORT NUMBER: P635009
CATALOG NUMBER: GWS-SA3C-830-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 35.6 fc
Type II - Short - N/A

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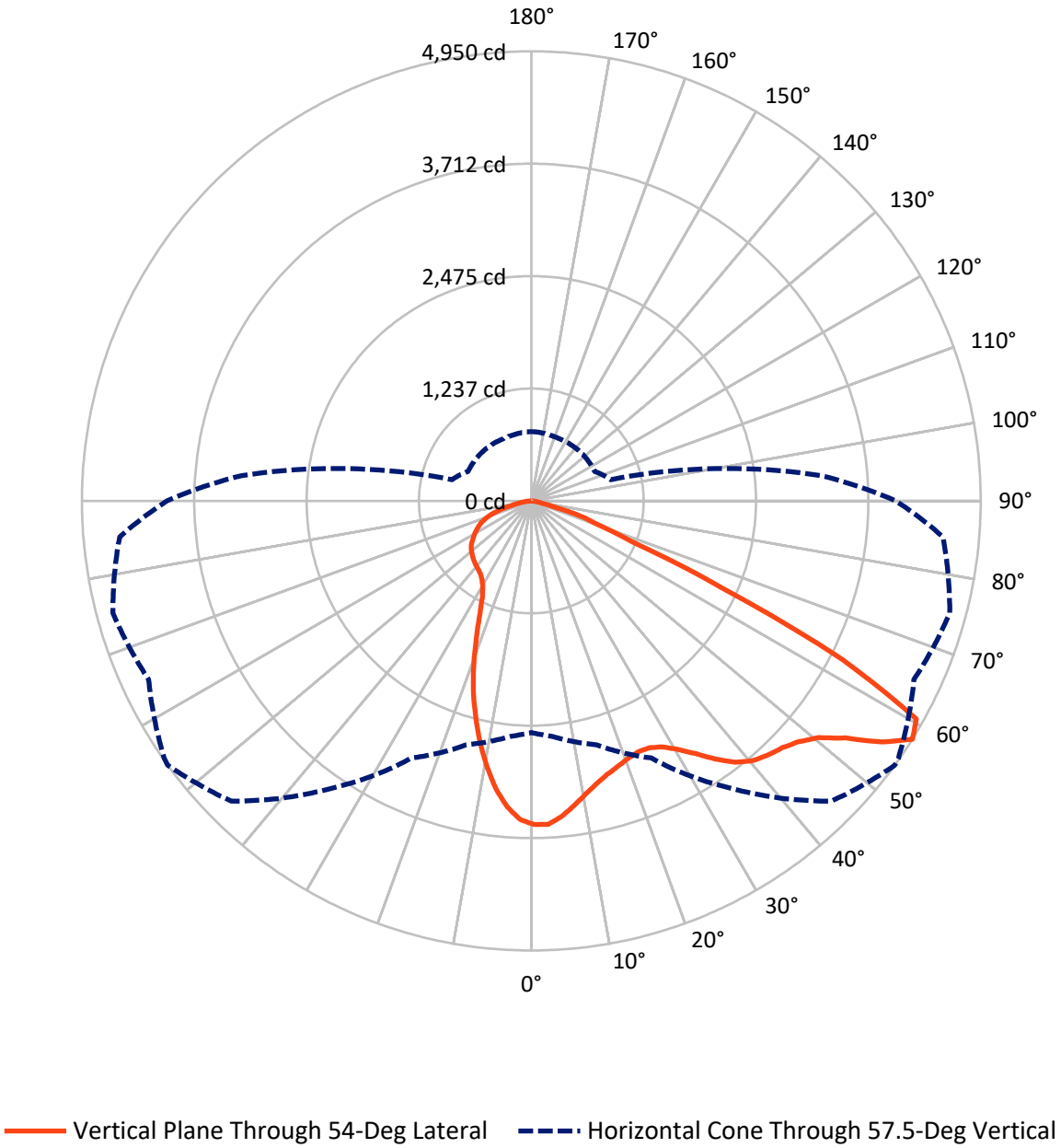
Luminous Intensity Polar Plot



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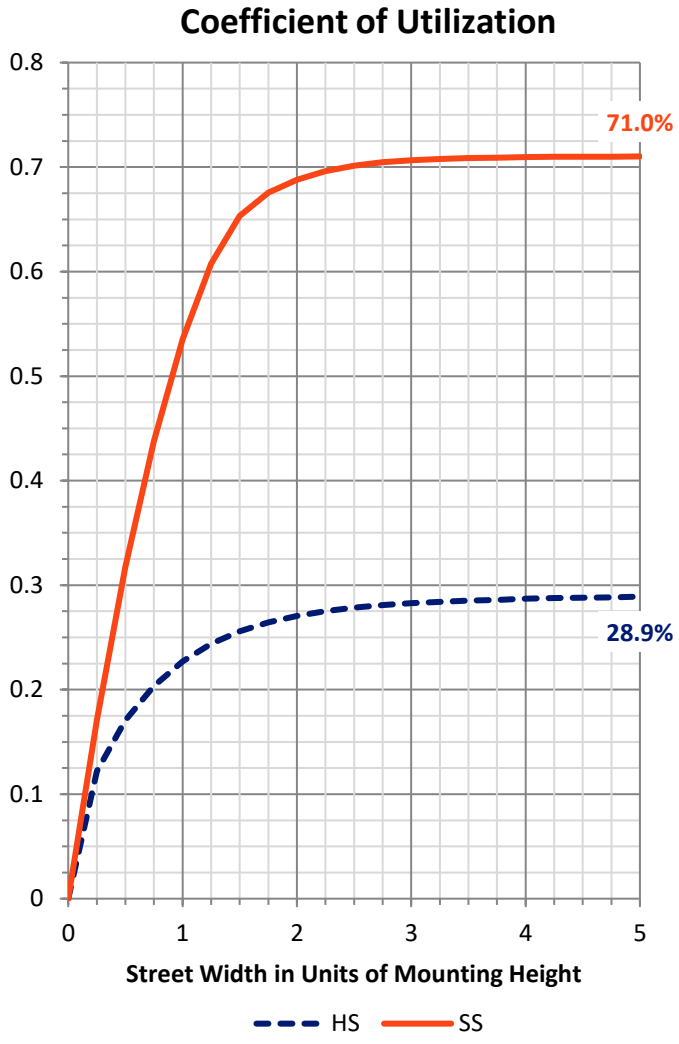
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2697.8	0.0	2697.8
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	6582.2	0.0	6582.2
	% Fixture	70.9	0.0	70.9
Total	Lumens	9280.0	0.0	9280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.2	3.4
10°-20°	747.3	8.1
20°-30°	1034.1	11.1
30°-40°	1436.9	15.5
40°-50°	1897.7	20.4
50°-60°	2255.1	24.3
60°-70°	1249.4	13.5
70°-80°	311.1	3.4
80°-90°	35.4	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°	9280.0	100.0
0°-180°	9280.0	100.0



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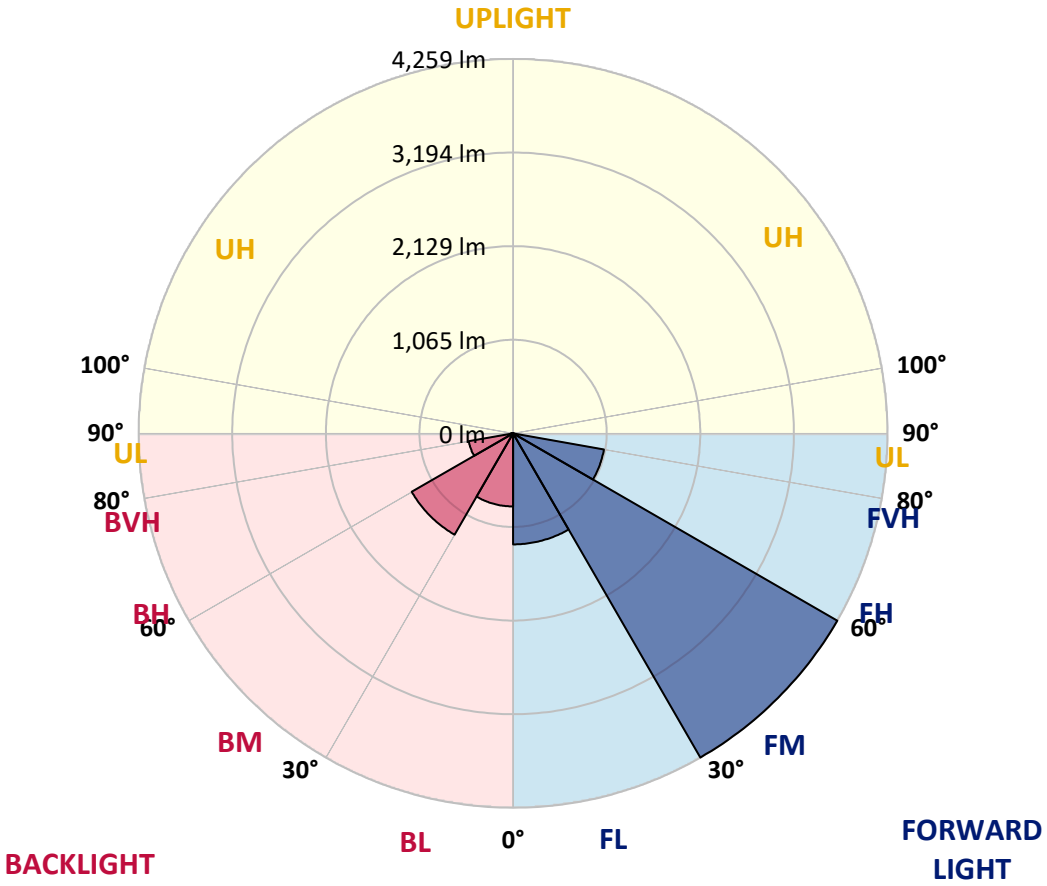
REPORT NUMBER: P635009
CATALOG NUMBER: GWS-SA3C-830-U-SL3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1263.2	13.6			
FM	(30°-60°)	4258.7	45.9			
FH	(60°-80°)	1049.2	11.3			G1/1800
FVH	(80°-90°)	11.1	0.1			G1/100
BL	(0°-30°)	831.4	9.0	B2/1000		
BM	(30°-60°)	1330.9	14.3	B2/2500		
BH	(60°-80°)	511.2	5.5	B2/1000		G2/1000
BVH	(80°-90°)	24.3	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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Scaled Data Report

REPORT NUMBER: P635009
CATALOG NUMBER: GWS-SA3C-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3562.8	3562.8	3562.8	3562.8	3562.8	3562.8	*3562.8*	3562.8	3562.8	3562.8	3562.8
2.5°	3496.1	3503.2	3508.0	3524.7	3539.0	3551.7	*3565.2*	3565.2	3564.4	3562.0	3557.2
5°	3357.9	3365.8	3376.9	3400.0	3430.9	3453.2	*3489.7*	3492.9	3508.8	3515.1	3512.0
7.5°	3197.4	3199.8	3214.1	3244.3	3293.5	3333.2	*3385.7*	3392.0	3430.1	3452.4	3448.4
10°	3021.8	3013.9	3039.3	3083.8	3148.1	3214.9	*3282.4*	3287.9	3349.1	3391.2	3388.0
12.5°	2861.4	2862.2	2887.6	2941.6	3021.8	3104.4	*3195.0*	3207.7	3283.2	3337.2	3331.6
15°	2727.1	2730.3	2761.3	2822.4	2913.8	3012.3	*3125.1*	3137.0	3232.3	3303.8	3287.9
17.5°	2619.9	2623.0	2650.1	2720.0	2817.7	2936.8	*3074.3*	3086.2	3204.5	3289.5	3257.0
20°	2546.0	2544.4	2570.6	2637.3	2738.2	2867.7	*3029.8*	3047.2	3195.8	3295.1	3236.3
22.5°	2515.8	2515.0	2534.1	2588.9	2683.4	2814.5	*3002.8*	3026.6	3205.3	3319.7	3223.6
25°	2530.9	2527.7	2544.4	2584.9	2660.4	2793.8	*3010.7*	3036.1	3245.8	3370.6	3226.0
27.5°	2577.8	2573.8	2588.1	2624.6	2681.8	2815.3	*3066.3*	3095.7	3331.6	3463.5	3257.8
30°	2649.3	2646.9	2661.2	2696.1	2746.2	2886.8	*3172.8*	3206.1	3464.3	3608.1	3326.9
32.5°	2732.7	2728.7	2754.1	2794.6	2852.6	3017.1	*3315.7*	3359.4	3621.6	3794.0	3442.9
35°	2826.4	2823.2	2858.2	2917.0	3000.4	3198.2	*3488.9*	3536.6	3782.1	4004.5	3597.0
37.5°	2917.8	2917.8	2985.3	3072.7	3177.5	3395.2	*3651.8*	3682.0	3893.3	4191.2	3762.2
40°	2998.8	3003.6	3105.2	3236.3	3369.8	3573.1	*3759.0*	3784.4	3942.5	4319.8	3906.0
42.5°	3088.6	3092.5	3210.9	3382.5	3541.4	3716.9	*3824.2*	3836.9	3952.0	4384.2	4007.7
45°	3160.1	3165.6	3312.6	3496.1	3690.7	3824.9	*3875.8*	3886.9	3965.6	4419.1	4081.5
47.5°	3197.4	3205.3	3373.7	3587.4	3791.6	3921.9	*3960.8*	3965.6	4021.2	4480.3	4170.5
50°	3191.0	3206.9	3396.8	3632.7	3866.3	4019.6	*4097.4*	4105.4	4134.8	4570.1	4274.6
52.5°	3247.4	3254.6	3446.0	3686.7	3972.7	4199.9	*4334.9*	4346.1	4332.6	4637.6	4336.5
55°	3153.7	3187.9	3384.9	3678.8	4134.8	4478.7	*4686.9*	4681.3	4512.1	4713.1	4439.8
57.5°	*2550.8*	*2600.8*	*2781.1*	*3122.7*	*3867.8*	*4674.1*	*4949.8*	*4936.3*	*4651.1*	*4771.1*	*4551.8*
60°	1765.9	1773.9	1936.7	2179.0	2985.3	4129.2	*4872.7*	4902.1	4676.5	4698.0	4344.5
62.5°	1412.4	1410.0	1425.1	1431.5	1898.6	2902.7	*3846.4*	3953.6	3885.3	3660.5	3079.0
65°	1205.9	1214.6	1259.1	1236.1	1239.2	1634.8	*2298.1*	2313.2	2265.6	2184.6	1628.5
67.5°	943.7	958.8	1037.5	1127.2	1098.6	1052.6	*1192.4*	1185.2	934.2	722.9	597.4
70°	591.0	600.6	684.8	884.9	956.4	864.3	*766.6*	763.4	500.5	411.5	451.2
72.5°	344.8	346.4	370.2	493.3	634.7	591.0	*564.0*	543.4	321.7	328.1	359.9
75°	189.9	189.9	189.1	212.9	250.2	221.6	*214.5*	208.9	215.3	243.9	267.7
77.5°	39.7	40.5	42.9	56.4	73.1	89.0	*112.0*	112.8	140.6	162.8	181.9
80°	18.3	19.1	23.8	30.2	38.9	51.6	*68.3*	69.1	85.0	102.5	115.2
82.5°	9.5	10.3	12.7	15.9	20.7	27.0	*38.1*	38.1	50.8	60.4	68.3
85°	3.2	3.2	4.8	6.4	8.7	11.1	*15.1*	15.1	22.2	29.4	34.2
87.5°	0.0	0.0	0.0	0.0	0.8	1.6	*3.2*	3.2	4.0	4.8	7.9
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: P635009
CATALOG NUMBER: GWS-SA3C-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3562.8	3562.8	3562.8	3562.8	3562.8	3562.8	3562.8	3562.8	3562.8	3562.8	3562.8
2.5°	3546.9	3522.3	3523.1	3527.8	3512.8	3489.7	3474.6	3455.6	3443.6	3441.3	3450.0
5°	3496.1	3467.5	3447.6	3427.0	3384.1	3333.2	3293.5	3260.9	3239.5	3231.5	3222.0
7.5°	3426.2	3388.8	3338.8	3280.8	3202.9	3112.4	3048.8	2989.3	2948.0	2936.0	2930.5
10°	3356.3	3302.2	3213.3	3105.2	2975.8	2853.4	2738.2	2650.1	2580.2	2540.4	2553.1
12.5°	3284.0	3217.2	3078.2	2912.2	2731.9	2547.6	2396.7	2250.5	2137.7	2081.3	2064.6
15°	3220.4	3129.9	2936.0	2711.2	2471.3	2239.4	2020.9	1801.7	1658.7	1580.8	1559.4
17.5°	3166.4	3048.8	2785.9	2506.3	2219.5	1889.0	1620.5	1417.2	1319.5	1276.6	1273.4
20°	3113.2	2969.4	2637.3	2285.4	1928.8	1558.6	1318.7	1223.3	1188.4	1173.3	1172.5
22.5°	3065.5	2886.0	2480.9	2064.6	1639.6	1309.9	1178.1	1136.8	1127.2	1127.2	1125.6
25°	3025.0	2802.6	2320.4	1830.3	1378.3	1166.2	1105.0	1087.5	1091.5	1098.6	1099.4
27.5°	3008.3	2737.4	2165.5	1589.6	1197.9	1082.7	1054.9	1052.6	1063.7	1074.8	1076.4
30°	3025.8	2693.0	2006.6	1359.2	1089.9	1031.9	1019.2	1024.0	1037.5	1048.6	1048.6
32.5°	3079.8	2670.7	1844.6	1190.8	1027.1	996.2	992.2	996.9	1007.3	1013.6	1014.4
35°	3171.2	2679.5	1676.9	1077.2	986.6	969.9	969.1	972.3	976.3	980.3	981.1
37.5°	3286.4	2718.4	1497.4	1011.2	960.4	950.9	949.3	948.5	949.3	949.3	950.1
40°	3399.2	2777.2	1336.9	972.3	942.1	934.2	930.2	924.7	923.9	922.3	921.5
42.5°	3482.6	2822.4	1209.0	944.5	925.5	915.9	911.2	902.4	901.6	900.8	900.0
45°	3545.3	2860.6	1102.6	917.5	908.0	899.2	888.9	881.0	882.6	884.1	884.1
47.5°	3616.0	2893.9	1024.8	892.1	886.5	877.8	865.1	859.5	865.1	870.6	870.6
50°	3701.8	2940.8	961.2	866.7	864.3	854.0	842.8	840.5	846.8	854.8	854.8
52.5°	3764.6	2981.3	915.9	841.3	841.3	827.7	818.2	817.4	824.6	832.5	833.3
55°	3882.1	3075.8	900.0	811.9	808.7	798.4	791.2	785.6	794.4	801.5	801.5
57.5°	*4014.8*	*3201.4*	*904.0*	*769.8*	*765.8*	*762.6*	*757.0*	*750.7*	*753.1*	*761.0*	*761.8*
60°	3733.6	2958.3	860.3	727.7	725.3	723.7	716.5	705.4	708.6	714.9	715.7
62.5°	2608.0	1966.1	695.9	675.2	683.2	682.4	672.8	660.1	660.9	669.7	669.7
65°	1353.6	1063.7	610.9	627.6	639.5	634.7	618.8	607.7	606.1	617.2	614.9
67.5°	583.9	580.7	556.1	577.5	590.2	579.9	563.2	544.9	546.5	550.5	547.3
70°	470.3	484.6	494.9	517.9	528.3	509.2	490.9	480.6	471.9	471.1	465.5
72.5°	375.7	395.6	418.6	442.5	445.6	426.6	403.5	394.0	380.5	379.7	374.2
75°	282.8	299.5	317.8	336.8	336.8	318.5	303.5	298.7	282.8	278.0	273.3
77.5°	193.0	203.4	217.7	222.4	227.2	220.0	205.0	197.0	178.7	174.0	167.6
80°	121.5	128.7	137.4	140.6	145.4	136.6	124.7	116.0	103.3	99.3	96.1
82.5°	73.1	77.8	83.4	85.0	89.0	82.6	71.5	65.1	58.0	54.8	52.4
85°	37.3	39.7	42.9	43.7	42.9	36.5	32.6	29.4	24.6	23.8	22.2
87.5°	9.5	11.1	11.9	11.1	10.3	7.9	5.6	4.0	1.6	1.6	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

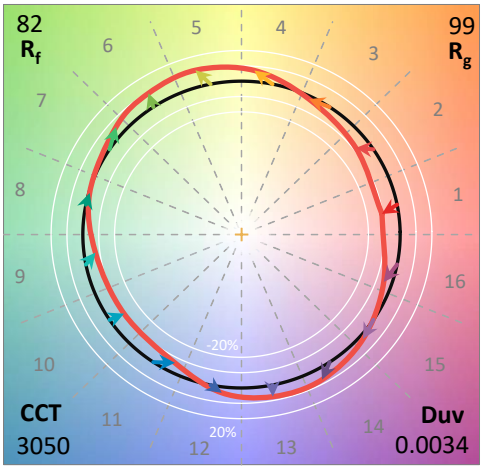
Test Information

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

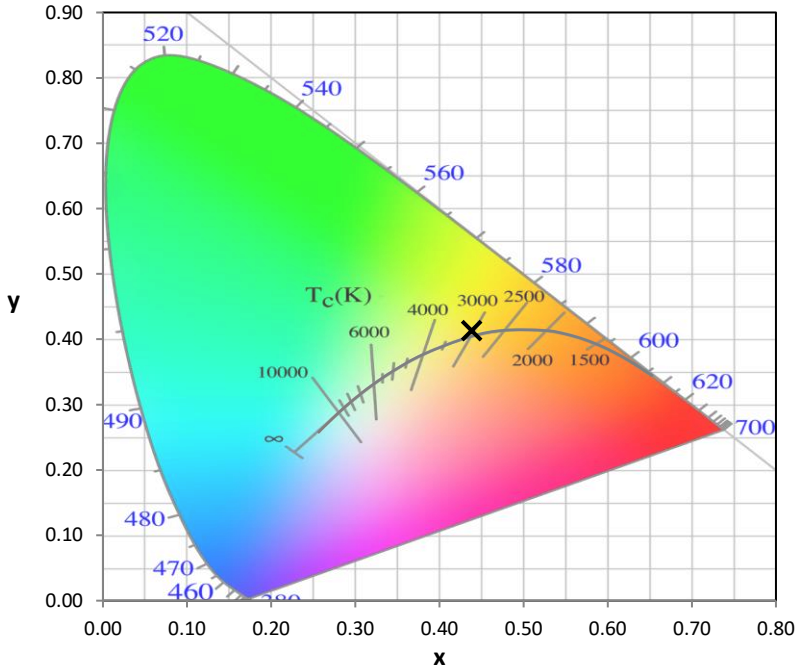
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

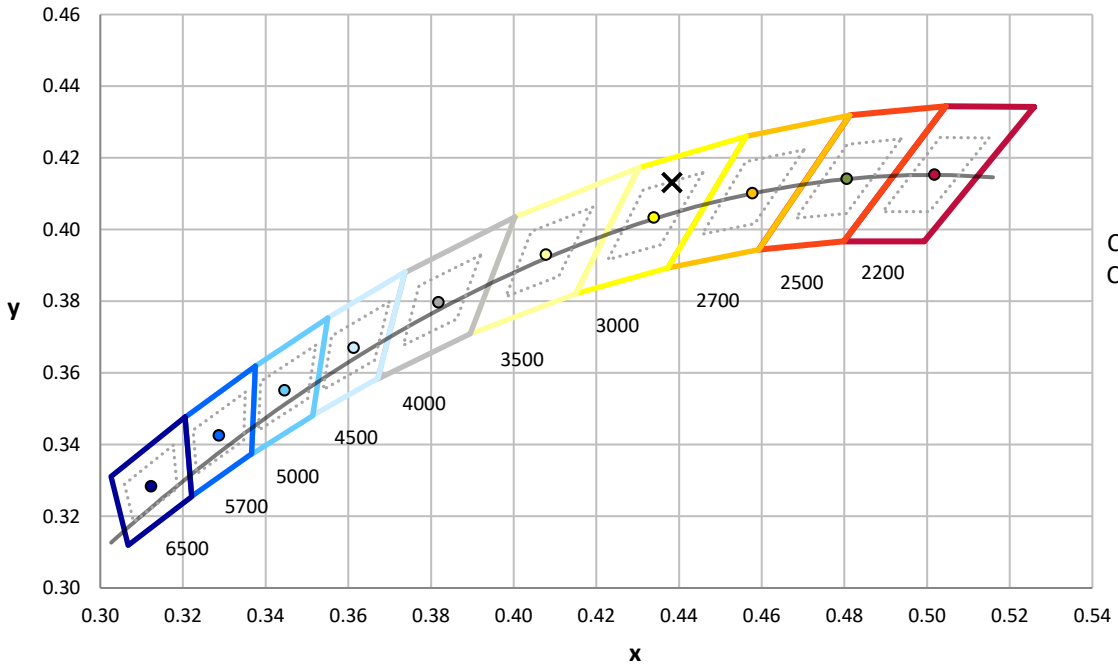
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

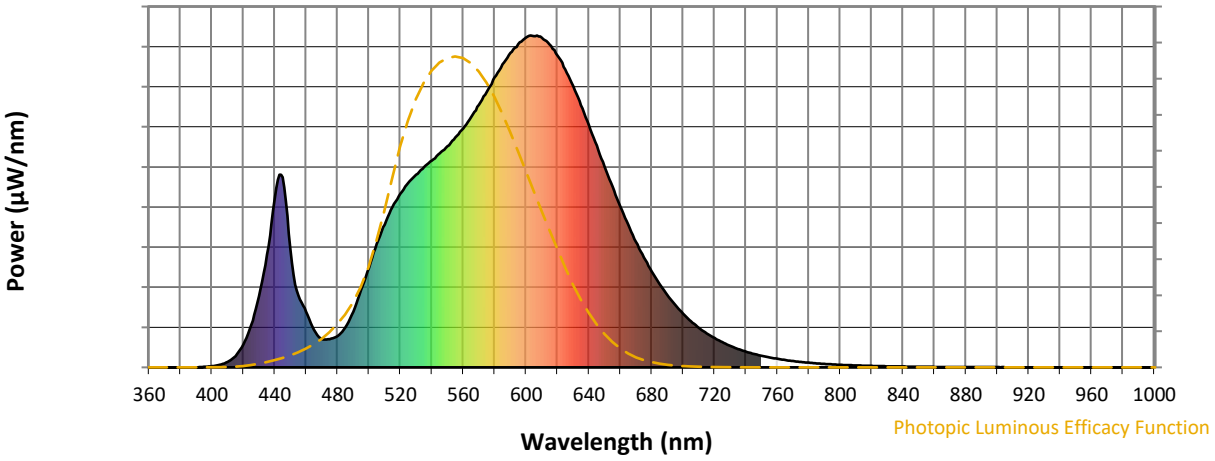


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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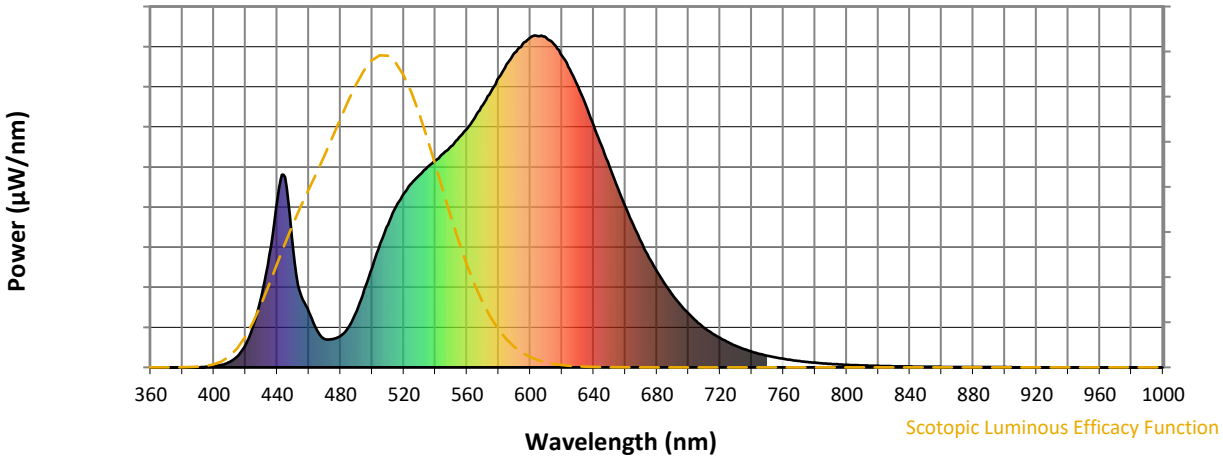
Scotopic Flux vs. Wavelength



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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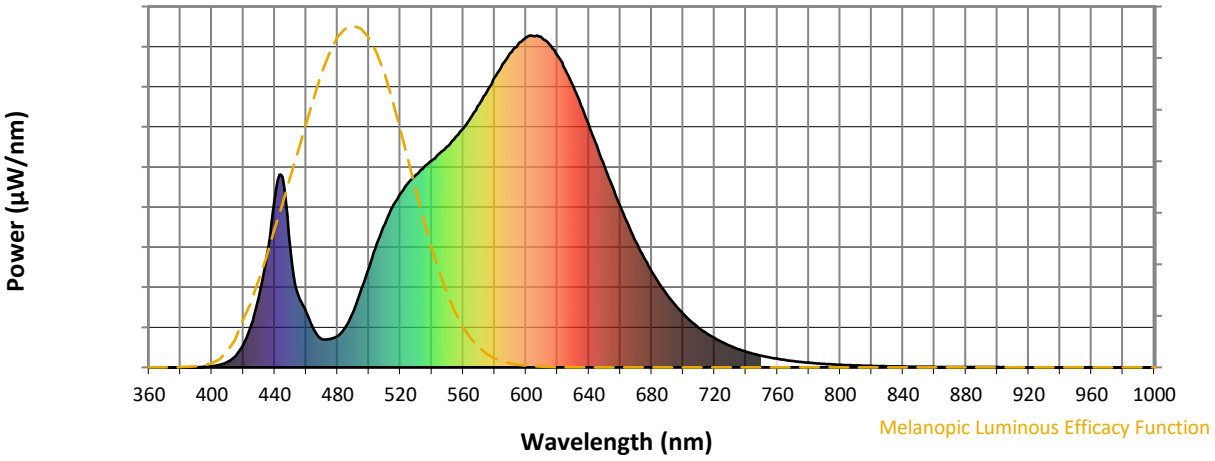
Melanopic Flux vs. Wavelength



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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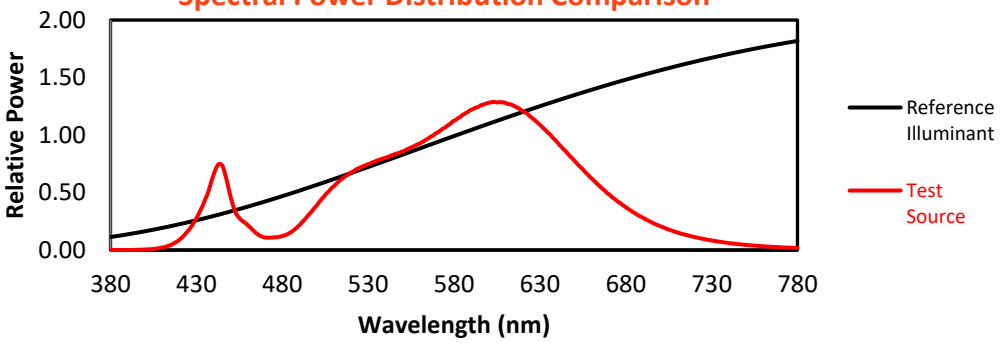
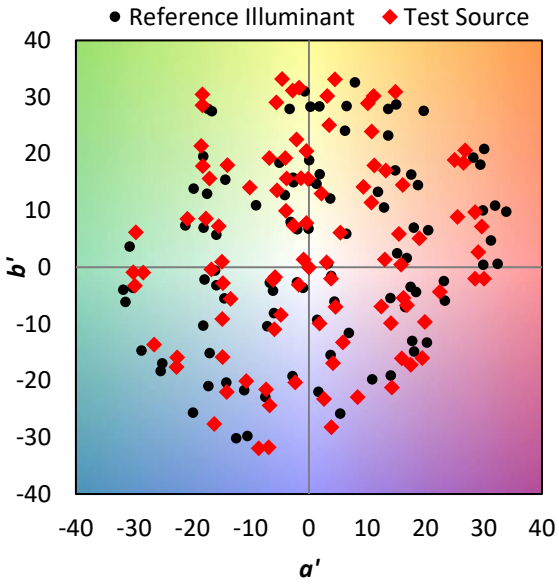
Summary

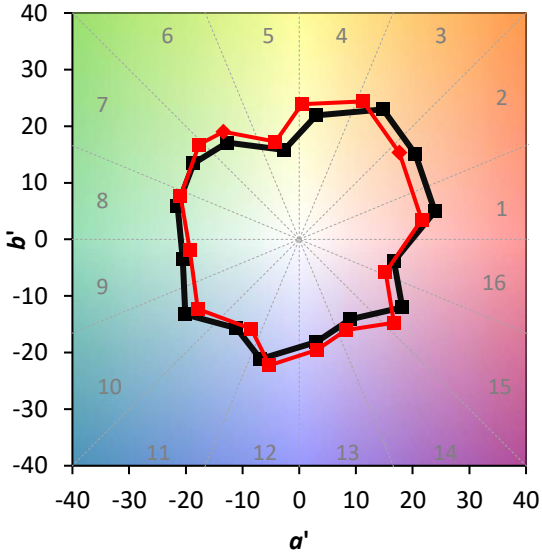
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

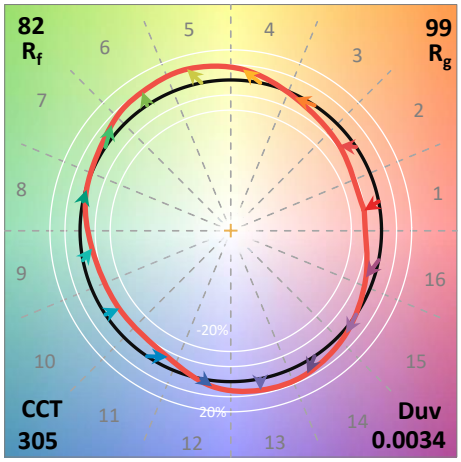
Spectral Power Distribution Comparison

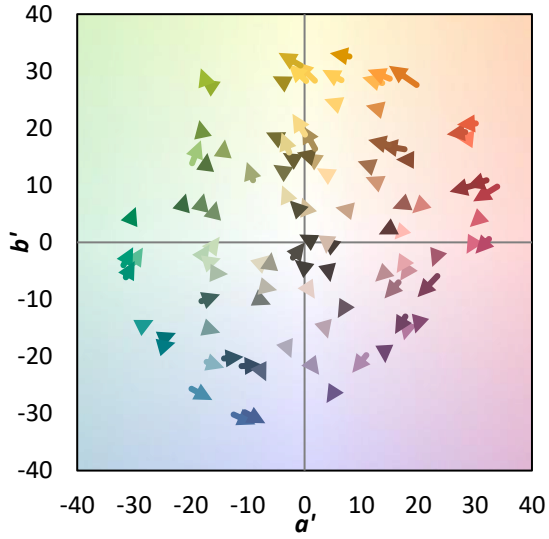


Color Vector Graphics









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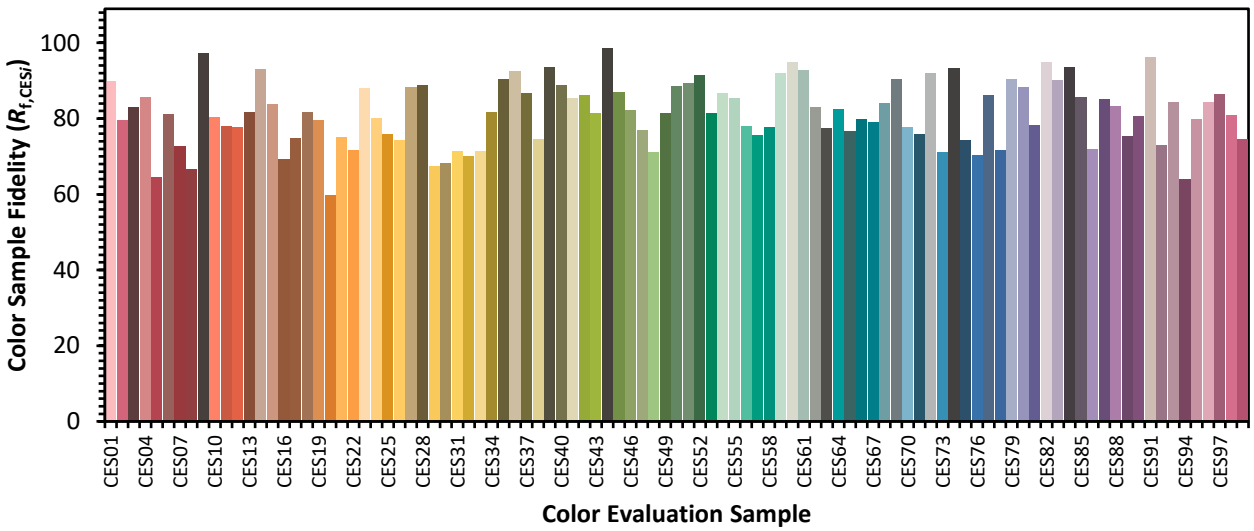
Individual Sample Fidelity Index ($R_{f,i}$)

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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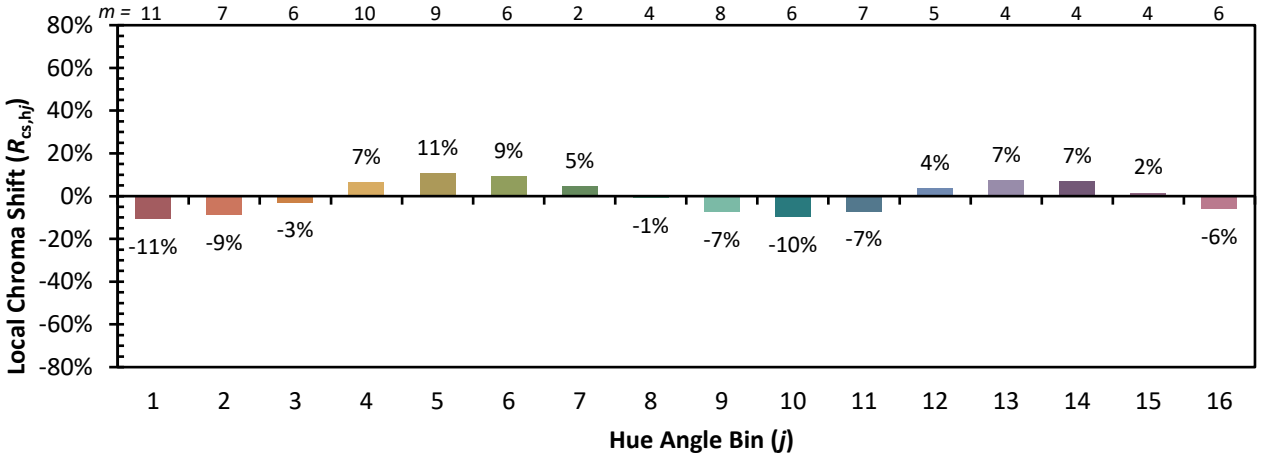
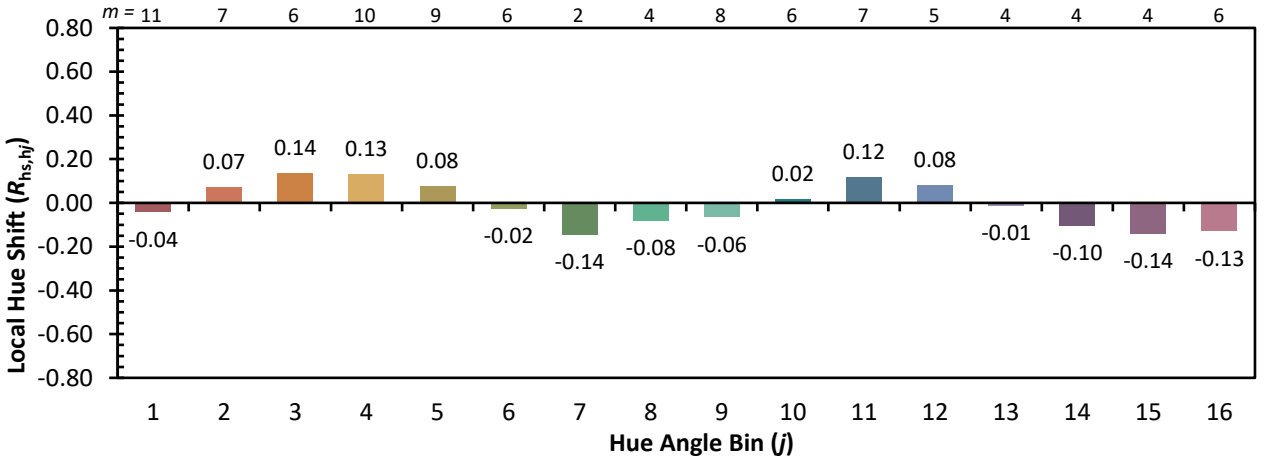
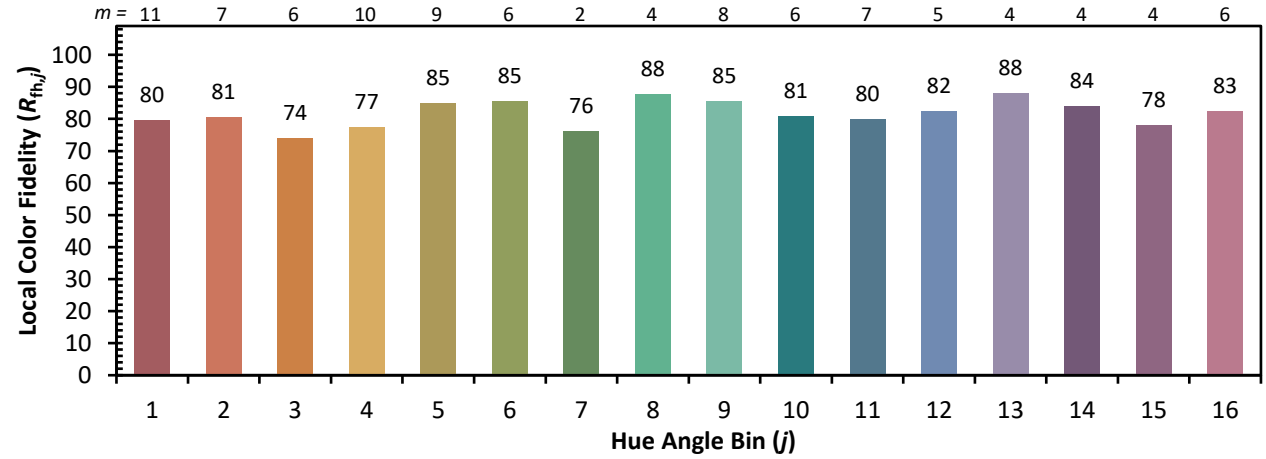
Color Rendition by Hue-Angle Bin







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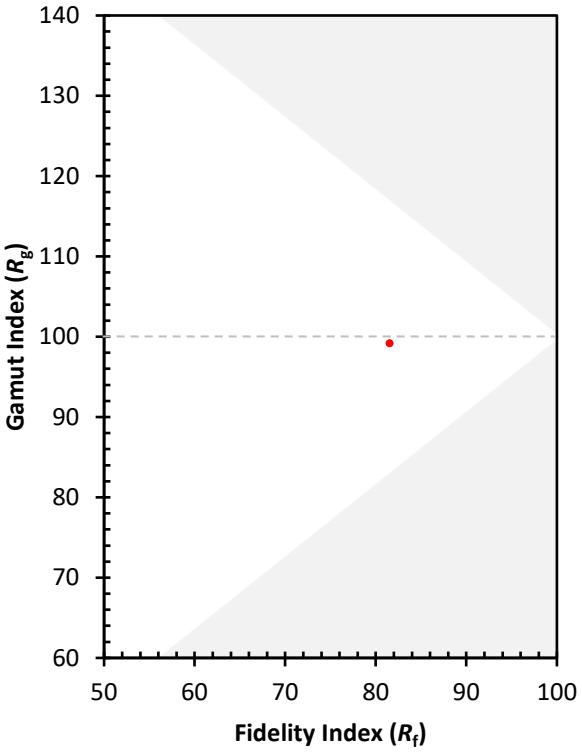
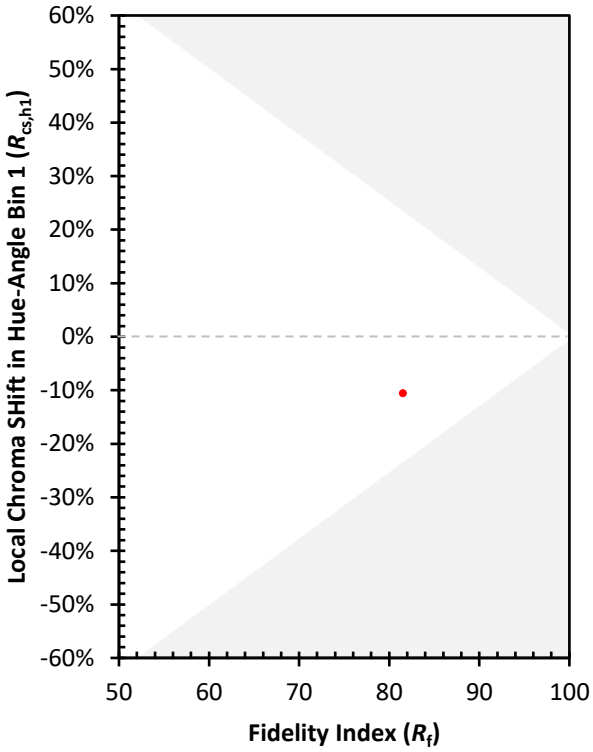
Measure Comparisons





(END OF REPORT)