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: P636509

Luminaire Tested: GWS-SA3F-830-U-T2-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:	P636509
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3F-830-U-T2-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSLLED GLARE SHIELD, WH
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16193.6 lumens
Efficiency:	N/A
Efficacy:	88.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

Input Watts (W):	183.2
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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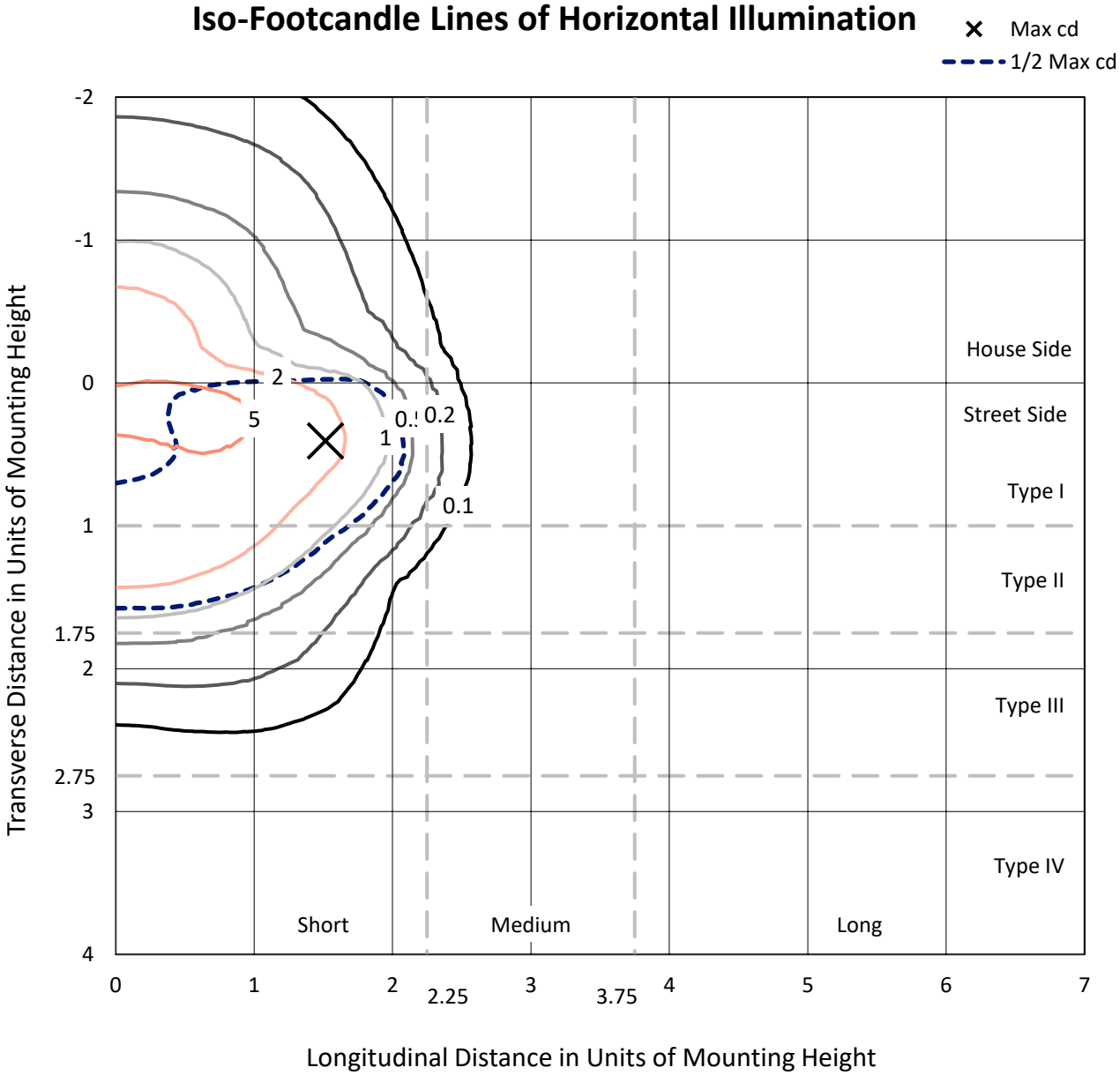
REPORT NUMBER: P636509
CATALOG NUMBER: GWS-SA3F-830-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type II - Short - N/A

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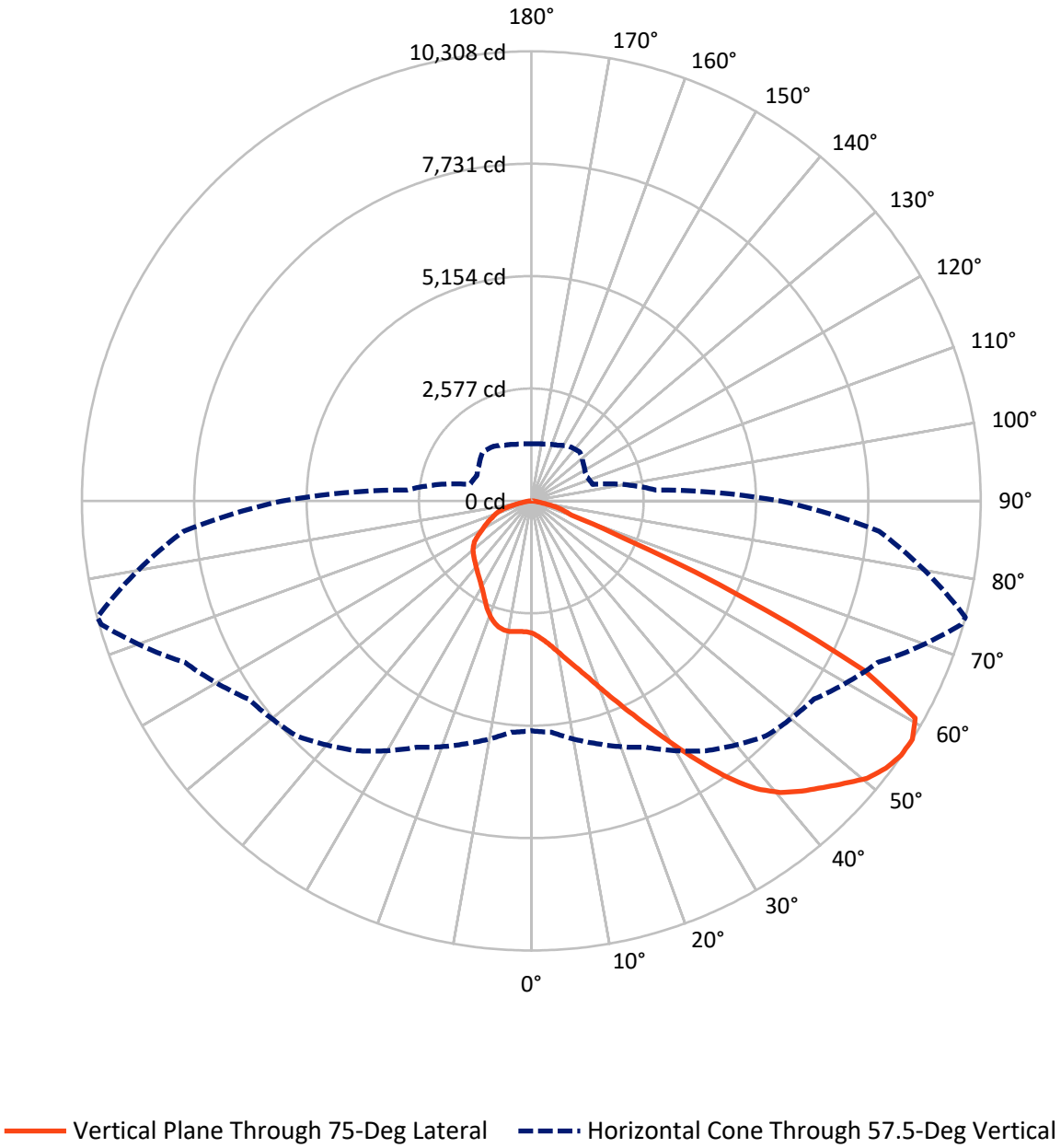
Luminous Intensity Polar Plot



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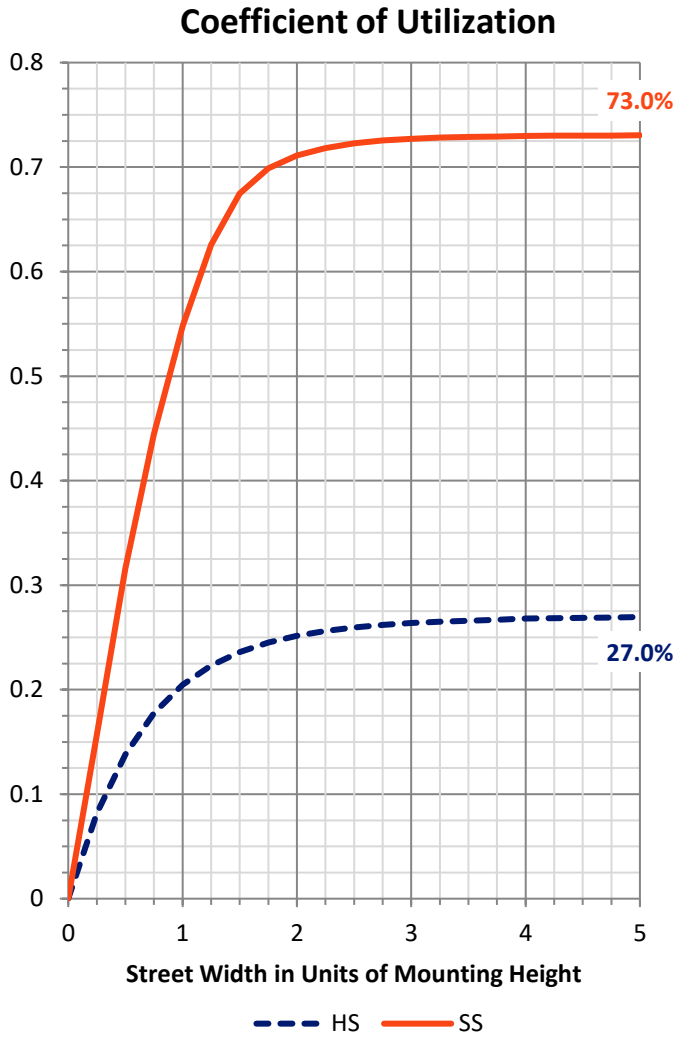
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4380.7	0.0	4380.7
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	11812.9	0.0	11812.9
	% Fixture	72.9	0.0	72.9
Total	Lumens	16193.6	0.0	16193.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.5	1.9
10°-20°	966.2	6.0
20°-30°	1713.6	10.6
30°-40°	2623.1	16.2
40°-50°	3652.5	22.6
50°-60°	4185.1	25.8
60°-70°	2150.4	13.3
70°-80°	541.4	3.3
80°-90°	57.9	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°	16193.6	100.0
0°-180°	16193.6	100.0



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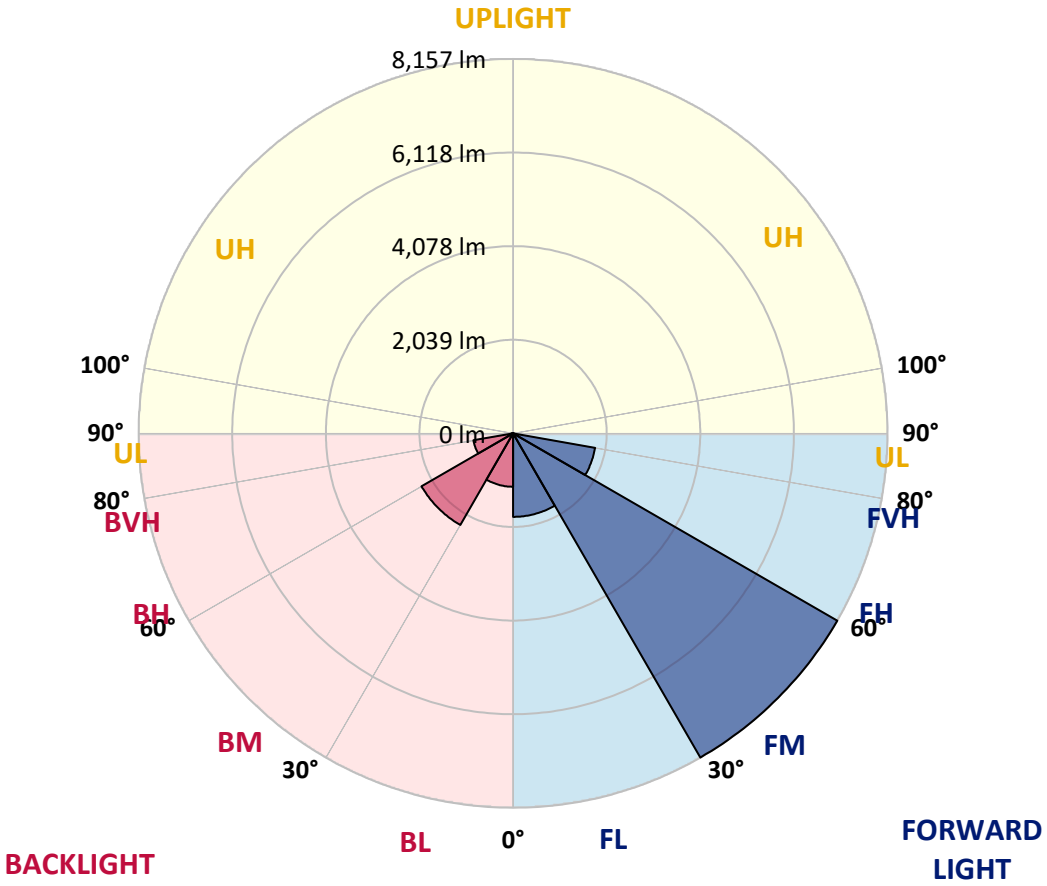
REPORT NUMBER: P636509
CATALOG NUMBER: GWS-SA3F-830-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1819.5	11.2			
FM	(30°-60°)	8156.9	50.4			
FH	(60°-80°)	1815.1	11.2			G2/5000
FVH	(80°-90°)	21.4	0.1			G1/100
BL	(0°-30°)	1163.8	7.2	B3/2500		
BM	(30°-60°)	2303.8	14.2	B2/2500		
BH	(60°-80°)	876.6	5.4	B2/1000		G2/1000
BVH	(80°-90°)	36.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
Type II Short



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REPORT NUMBER: P636509
CATALOG NUMBER: GWS-SA3F-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	*3032.7*	3032.7
2.5°	3258.2	3266.6	3258.2	3272.2	3244.3	3231.8	3201.2	3155.2	3119.0	*3113.4*	3073.1
5°	3511.7	3529.8	3518.6	3513.1	3475.5	3447.6	3401.7	3309.8	3234.6	*3223.4*	3144.1
7.5°	3674.6	3687.1	3687.1	3691.3	3677.4	3645.3	3596.6	3488.0	3382.2	*3365.5*	3245.7
10°	3728.9	3738.6	3756.7	3791.5	3819.4	3829.1	3797.1	3692.7	3563.2	*3546.5*	3379.4
12.5°	3741.4	3752.5	3780.4	3844.4	3921.0	3990.7	3996.2	3919.6	3774.8	*3756.7*	3533.9
15°	3765.1	3776.2	3813.8	3893.2	4006.0	4139.6	4221.8	4168.9	4008.8	*3989.3*	3709.4
17.5°	3762.3	3774.8	3830.5	3936.3	4088.1	4281.7	4440.4	4462.7	4297.0	*4263.6*	3908.5
20°	3755.3	3766.5	3826.3	3955.8	4143.8	4409.8	4696.6	4812.2	4633.9	*4603.3*	4141.0
22.5°	3811.0	3823.6	3869.5	3976.7	4173.1	4508.6	4933.3	5211.8	5033.6	*4990.4*	4408.4
25°	3936.3	3954.4	3982.3	4056.1	4226.0	4596.4	5175.6	5664.3	5481.9	*5430.4*	4699.4
27.5°	4129.9	4152.2	4191.2	4226.0	4344.3	4707.7	5416.5	6171.2	5988.8	*5934.5*	5007.1
30°	4366.6	4395.8	4446.0	4469.6	4550.4	4872.0	5678.3	6693.3	6587.5	*6512.3*	5353.8
32.5°	4693.8	4734.2	4781.5	4788.5	4837.2	5121.3	5937.2	7211.3	7209.9	*7157.0*	5747.9
35°	5119.9	5163.1	5172.8	5182.6	5206.2	5463.8	6250.5	7683.3	7865.7	*7804.5*	6176.7
37.5°	5585.0	5647.6	5662.9	5619.8	5653.2	5876.0	6602.8	8062.1	8436.6	*8371.2*	6591.7
40°	6082.1	6107.1	6148.9	6080.7	6122.4	6348.0	6948.1	8304.3	8862.7	*8793.1*	6918.9
42.5°	6438.5	6484.5	6547.1	6522.1	6545.7	6751.8	7190.4	8421.3	9166.2	*9096.6*	7154.2
45°	6825.6	6839.5	6879.9	6874.3	6888.3	7080.4	7364.5	8472.8	9437.8	*9375.1*	7354.7
47.5°	7162.6	7183.5	7209.9	7179.3	7148.6	7274.0	7506.5	8517.4	9751.1	*9675.9*	7565.0
50°	7487.0	7505.1	7537.1	7448.0	7333.8	7365.9	7576.1	8578.6	10044.9	*9991.9*	7730.7
52.5°	7546.9	7566.4	7716.7	7734.8	7588.6	7475.9	7698.6	8713.7	10217.5	*10184.1*	7790.5
55°	6793.6	6828.4	7127.8	7471.7	7832.3	7796.1	7895.0	8784.7	10285.7	*10294.1*	7897.8
57.5°	*5273.1*	*5323.2*	*5760.4*	*6232.4*	*6991.3*	*7619.3*	*7920.0*	*8766.6*	*10262.1*	*10308.0*	*8007.8*
60°	3458.8	3488.0	4006.0	4535.1	5321.8	6190.7	7088.8	8440.8	10051.8	*10117.3*	7979.9
62.5°	2088.6	2122.0	2538.4	2939.4	3403.1	3983.7	4808.0	6783.8	8425.5	*8571.7*	6391.2
65°	1457.9	1502.4	1867.2	2197.2	2357.4	2237.6	2435.3	3788.8	5249.4	*5310.7*	3905.7
67.5°	1056.8	1087.5	1386.8	1779.5	1956.3	1580.4	1204.4	1677.9	2286.3	*2308.6*	1611.0
70°	692.0	726.8	998.4	1354.8	1597.1	1281.0	900.9	907.9	962.2	*973.3*	935.7
72.5°	380.1	401.0	616.8	899.5	944.1	765.8	703.2	754.7	792.3	*792.3*	802.0
75°	196.3	214.4	252.0	296.6	357.8	419.1	506.8	583.4	623.8	*626.6*	622.4
77.5°	100.3	107.2	135.1	146.2	160.1	186.6	242.3	310.5	346.7	*360.6*	357.8
80°	47.3	50.1	57.1	66.8	82.2	104.4	130.9	156.0	178.2	*181.0*	196.3
82.5°	25.1	27.8	30.6	36.2	44.6	55.7	76.6	91.9	105.8	*108.6*	121.1
85°	9.7	11.1	12.5	13.9	19.5	23.7	32.0	43.2	52.9	*52.9*	62.7
87.5°	0.0	0.0	0.0	0.0	1.4	2.8	5.6	7.0	9.7	*9.7*	16.7
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: P636509
CATALOG NUMBER: GWS-SA3F-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7
2.5°	3063.3	3022.9	3004.8	2975.6	2951.9	2925.5	2904.6	2889.3	2879.5	2873.9	2868.4
5°	3113.4	3052.2	3003.4	2945.0	2904.6	2865.6	2833.6	2811.3	2800.1	2791.8	2786.2
7.5°	3191.4	3109.3	3017.4	2926.8	2855.8	2793.2	2752.8	2729.1	2713.8	2708.2	2704.1
10°	3298.6	3184.4	3032.7	2889.3	2783.4	2715.2	2687.4	2676.2	2677.6	2674.8	2673.4
12.5°	3419.8	3263.8	3028.5	2822.4	2705.5	2665.1	2666.5	2684.6	2705.5	2711.0	2712.4
15°	3550.6	3341.8	2988.1	2736.1	2644.2	2648.4	2684.6	2727.7	2766.7	2782.0	2784.8
17.5°	3692.7	3407.2	2914.3	2641.4	2594.1	2638.6	2705.5	2776.5	2833.6	2858.6	2865.6
20°	3851.4	3462.9	2809.9	2548.1	2546.7	2620.5	2718.0	2811.3	2883.7	2917.1	2922.7
22.5°	4019.9	3497.7	2681.8	2461.8	2498.0	2596.8	2708.2	2805.7	2882.3	2915.7	2922.7
25°	4189.8	3508.9	2541.2	2382.4	2447.9	2559.3	2660.9	2738.9	2811.3	2840.5	2846.1
27.5°	4348.5	3476.9	2407.5	2314.2	2401.9	2503.6	2571.8	2613.6	2663.7	2686.0	2690.1
30°	4510.0	3412.8	2294.7	2259.9	2350.4	2427.0	2457.6	2460.4	2479.9	2479.9	2482.7
32.5°	4672.9	3318.1	2195.8	2207.0	2286.3	2336.5	2340.6	2308.6	2284.9	2246.0	2244.6
35°	4860.9	3222.0	2115.1	2147.1	2211.1	2241.8	2229.3	2168.0	2110.9	2046.8	2044.1
37.5°	5035.0	3123.2	2046.8	2085.8	2126.2	2148.5	2119.3	2045.5	1998.1	1932.7	1922.9
40°	5178.4	3034.1	1981.4	2021.8	2041.3	2060.8	2013.4	1953.6	1960.5	1924.3	1922.9
42.5°	5261.9	2947.7	1920.1	1950.8	1963.3	1977.2	1935.5	1890.9	1928.5	1900.6	1902.0
45°	5323.2	2872.5	1864.4	1875.6	1906.2	1927.1	1888.1	1838.0	1846.3	1739.1	1714.1
47.5°	5392.8	2830.8	1811.5	1800.4	1854.7	1890.9	1831.0	1758.6	1708.5	1602.7	1592.9
50°	5466.6	2815.5	1755.8	1725.2	1790.6	1825.5	1755.8	1665.3	1599.9	1542.8	1537.2
52.5°	5491.7	2814.1	1686.2	1634.7	1700.1	1748.9	1690.4	1598.5	1520.5	1464.8	1462.0
55°	5590.5	2854.4	1597.1	1510.8	1572.0	1672.3	1629.1	1496.8	1434.2	1409.1	1406.3
57.5°	*5706.1*	*2861.4*	*1456.5*	*1375.7*	*1460.6*	*1579.0*	*1524.7*	*1410.5*	*1342.3*	*1311.7*	*1308.9*
60°	5658.8	2690.1	1306.1	1272.7	1366.0	1491.3	1441.1	1342.3	1262.9	1233.7	1230.9
62.5°	4312.3	1899.2	1196.1	1183.5	1264.3	1364.6	1354.8	1251.8	1176.6	1155.7	1152.9
65°	2594.1	1333.9	1090.3	1088.9	1146.0	1242.0	1254.6	1171.0	1091.7	1062.4	1062.4
67.5°	1282.4	1020.6	970.5	963.5	999.8	1068.0	1120.9	1052.7	985.8	958.0	953.8
70°	906.5	899.5	882.8	863.3	870.3	898.1	920.4	863.3	792.3	764.4	758.9
72.5°	783.9	785.3	774.2	758.9	753.3	733.8	714.3	672.5	629.4	600.1	602.9
75°	608.5	611.3	618.2	612.7	597.3	576.5	555.6	502.7	467.9	440.0	434.4
77.5°	355.1	369.0	391.3	385.7	388.5	359.2	350.9	299.4	267.3	247.8	243.7
80°	200.5	208.9	218.6	225.6	217.2	204.7	186.6	158.7	149.0	135.1	132.3
82.5°	121.1	129.5	133.7	139.2	136.5	119.7	105.8	87.7	79.4	72.4	71.0
85°	61.3	66.8	71.0	73.8	65.4	54.3	48.7	39.0	33.4	29.2	29.2
87.5°	15.3	16.7	19.5	16.7	15.3	7.0	5.6	1.4	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

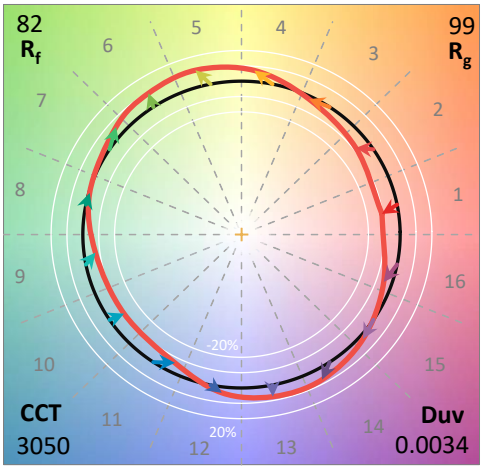
Test Information

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

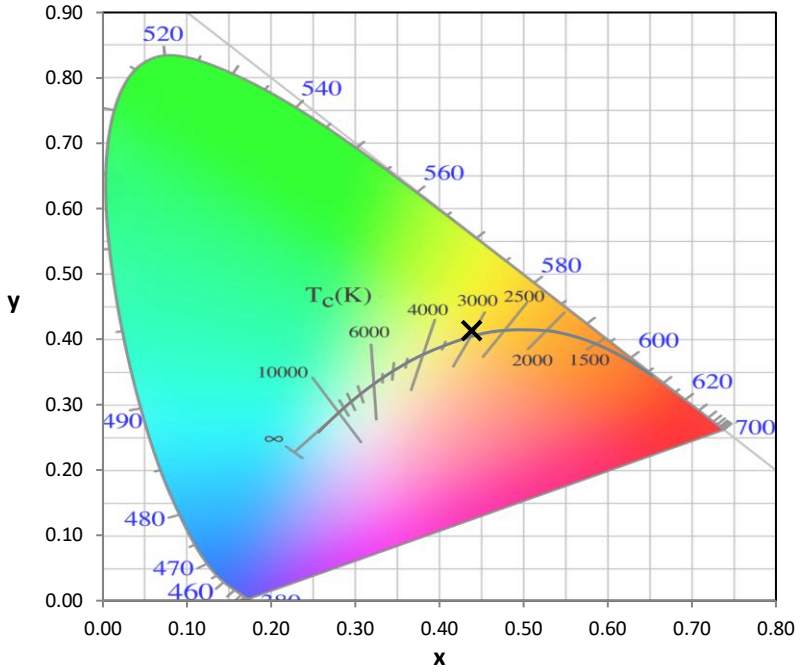
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

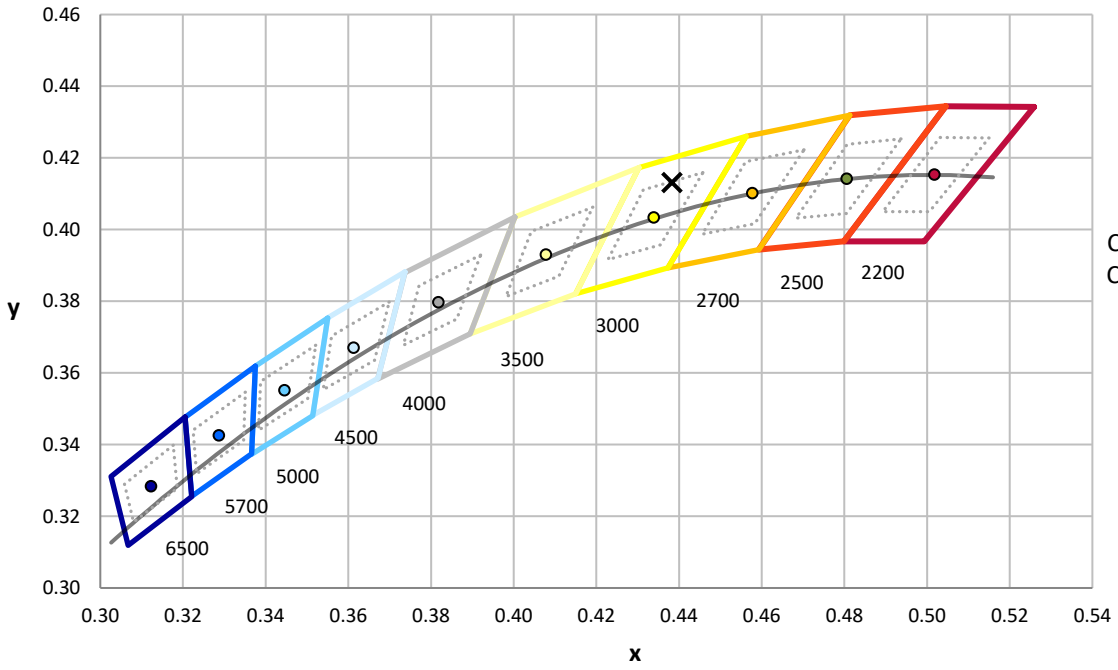
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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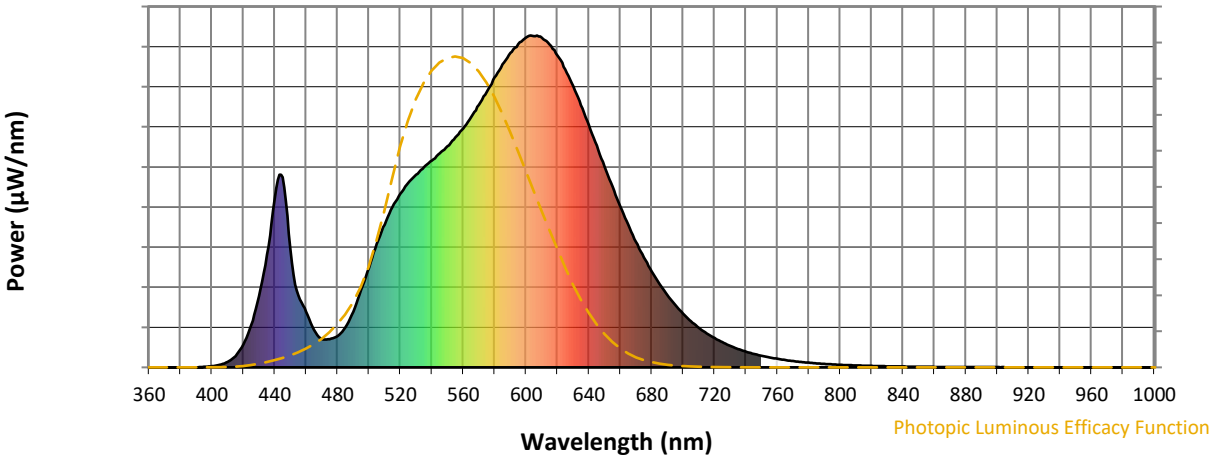
Photopic Flux vs. Wavelength



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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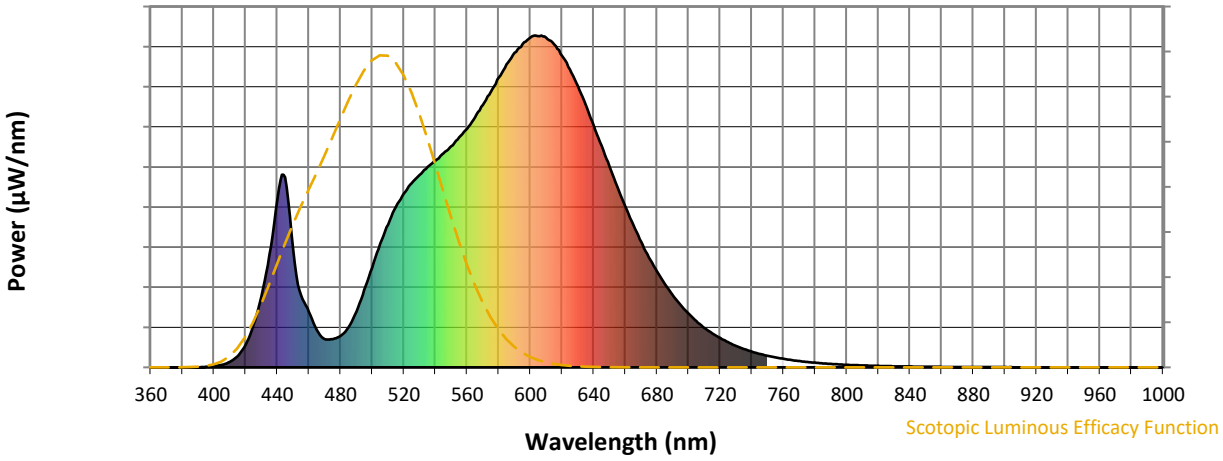
Scotopic Flux vs. Wavelength



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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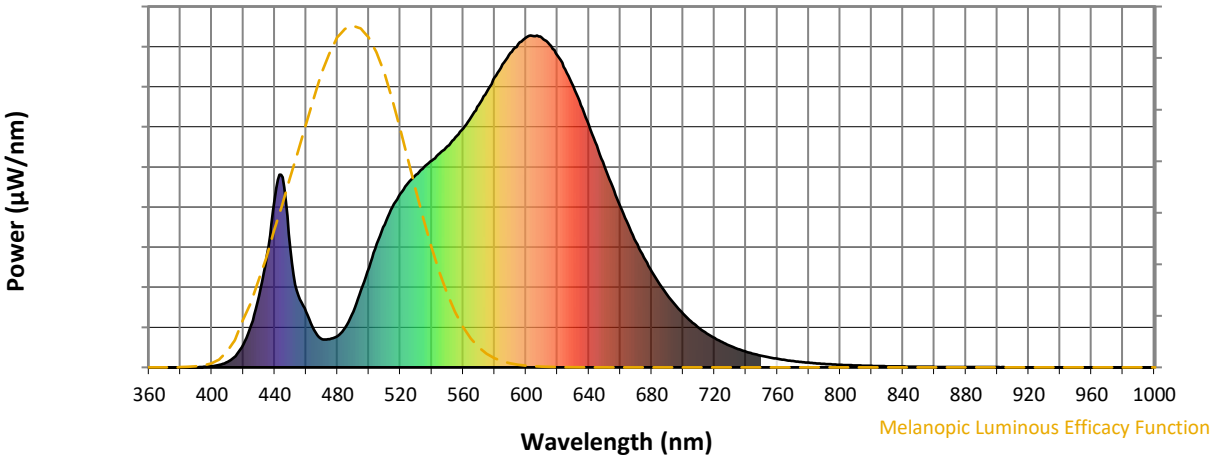
Melanopic Flux vs. Wavelength



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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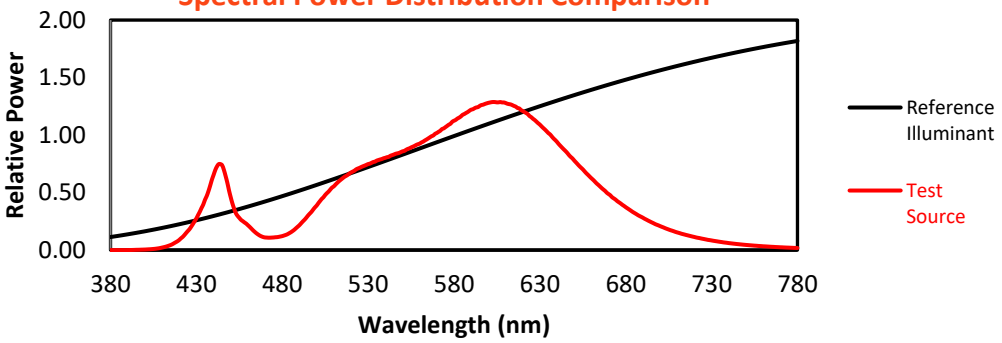
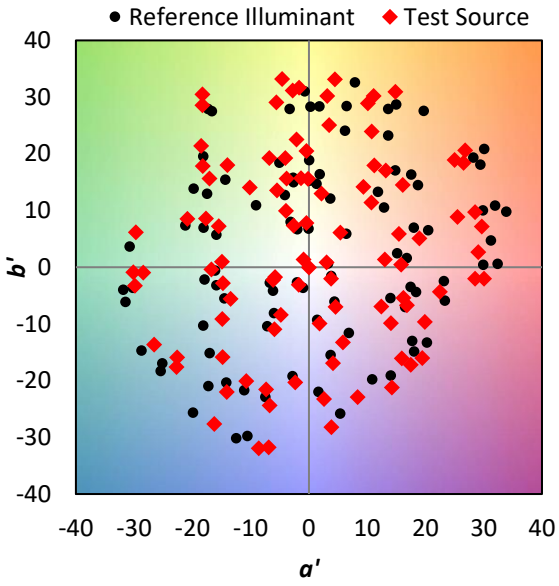
Summary

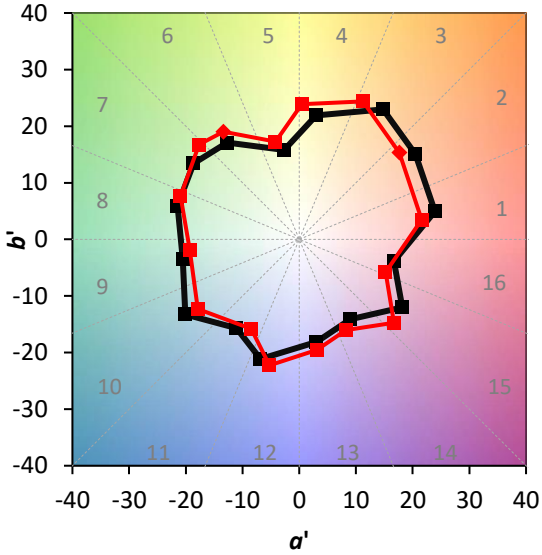
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

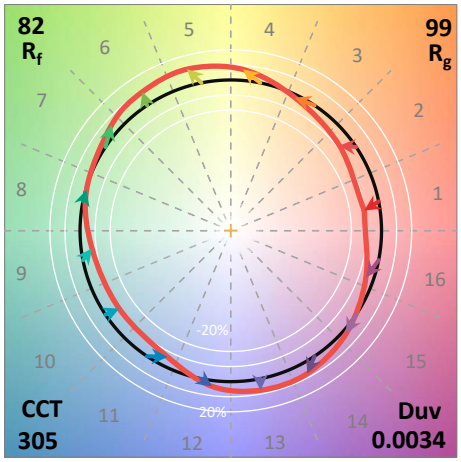
Spectral Power Distribution Comparison

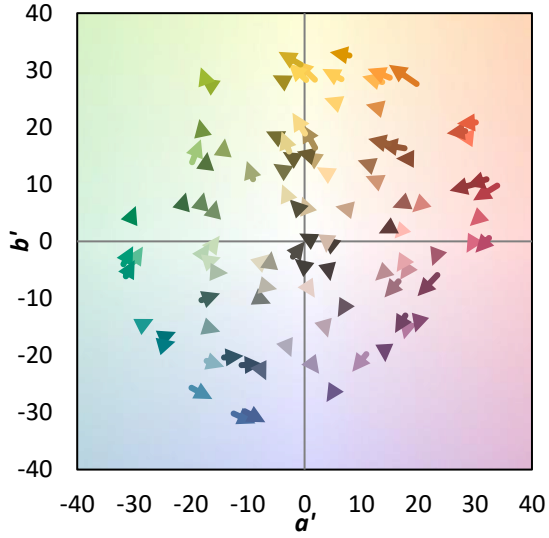


Color Vector Graphics









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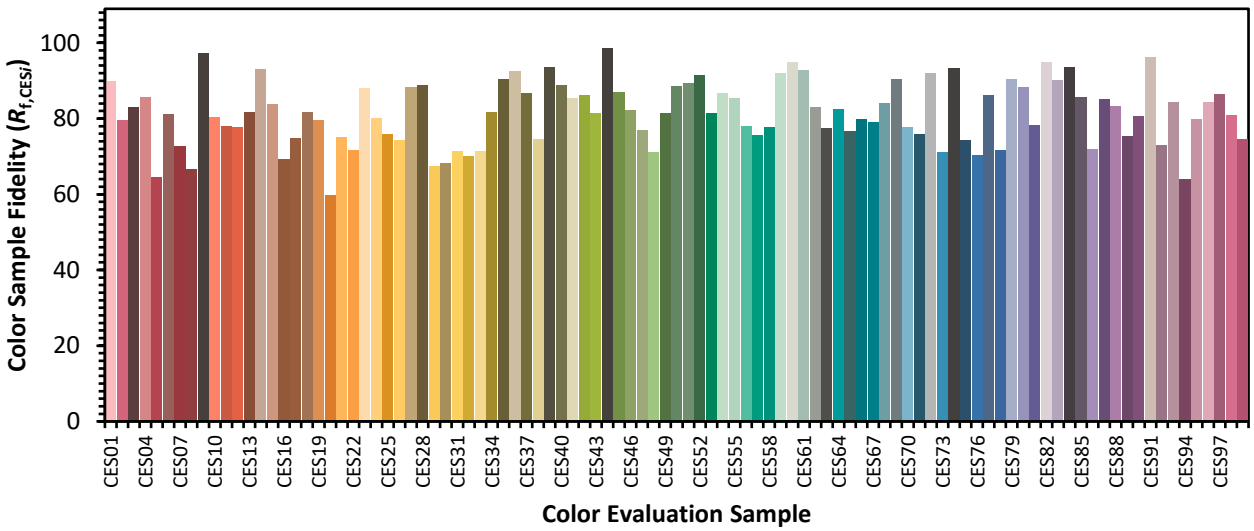
Individual Sample Fidelity Index ($R_{f,i}$)

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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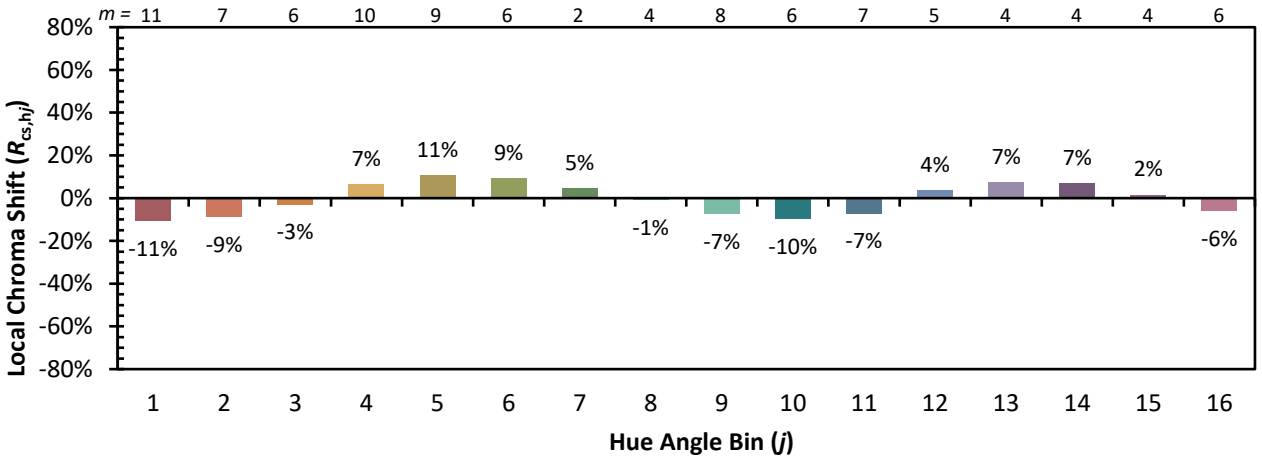
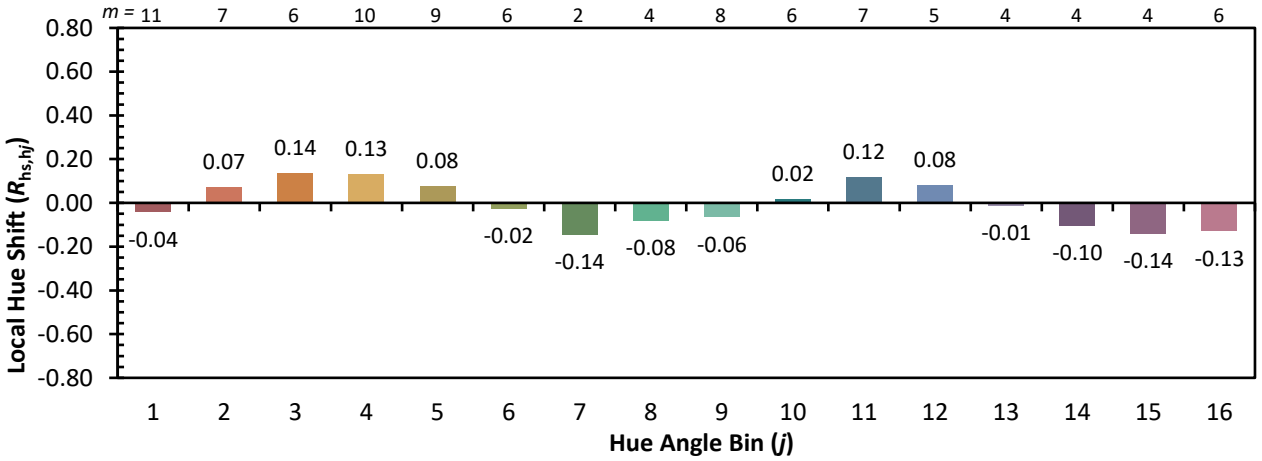
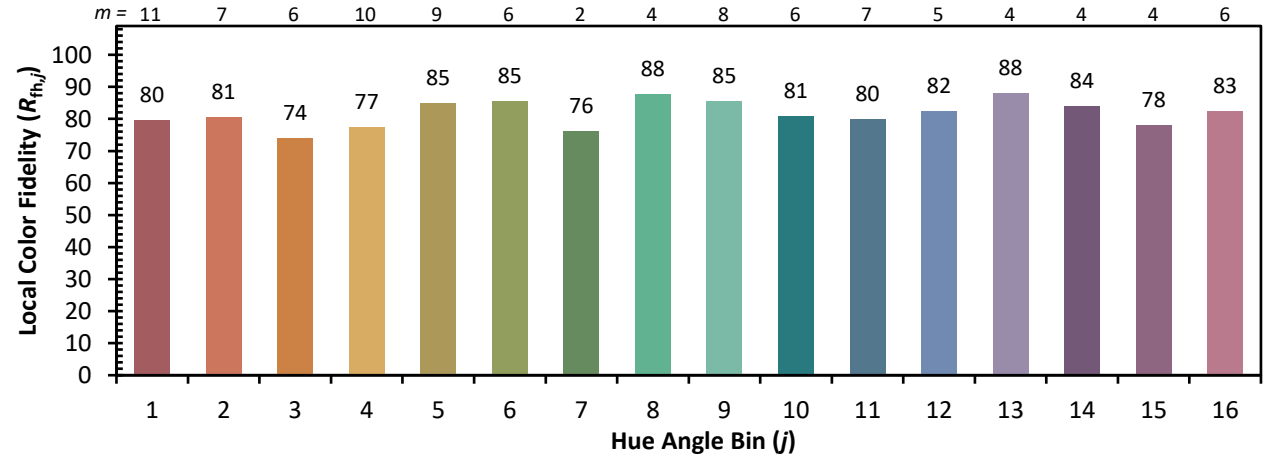
Color Rendition by Hue-Angle Bin







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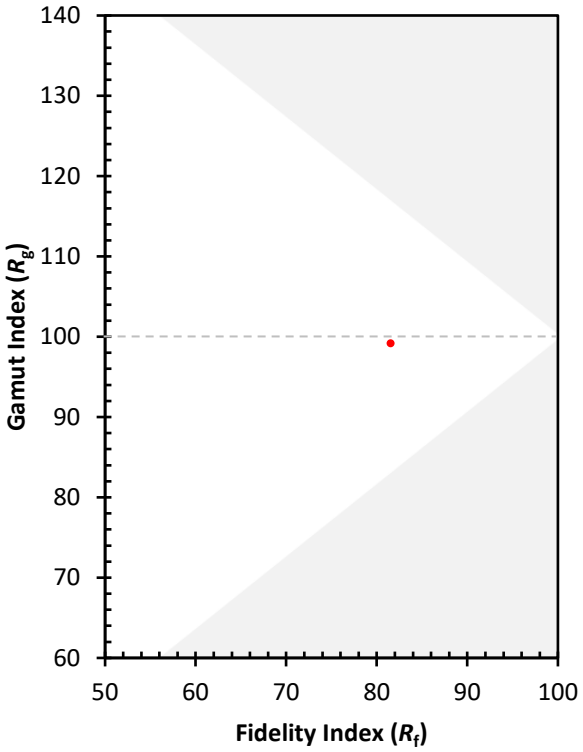
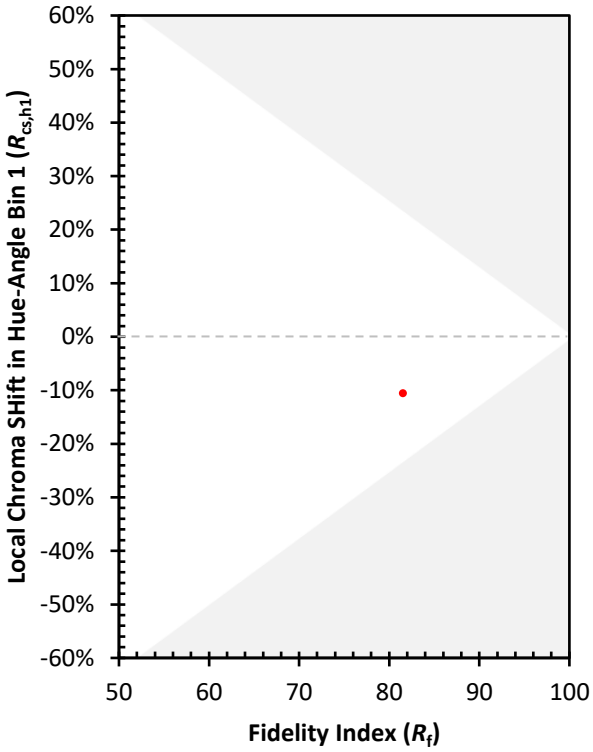
Measure Comparisons





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