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: P633018

Luminaire Tested: GWS-SA2D-830-U-AFL-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:	P633018
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2D-830-U-AFL-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE 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:	8414.6 lumens
Efficiency:	N/A
Efficacy:	102.5 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

Input Watts (W):	82.1
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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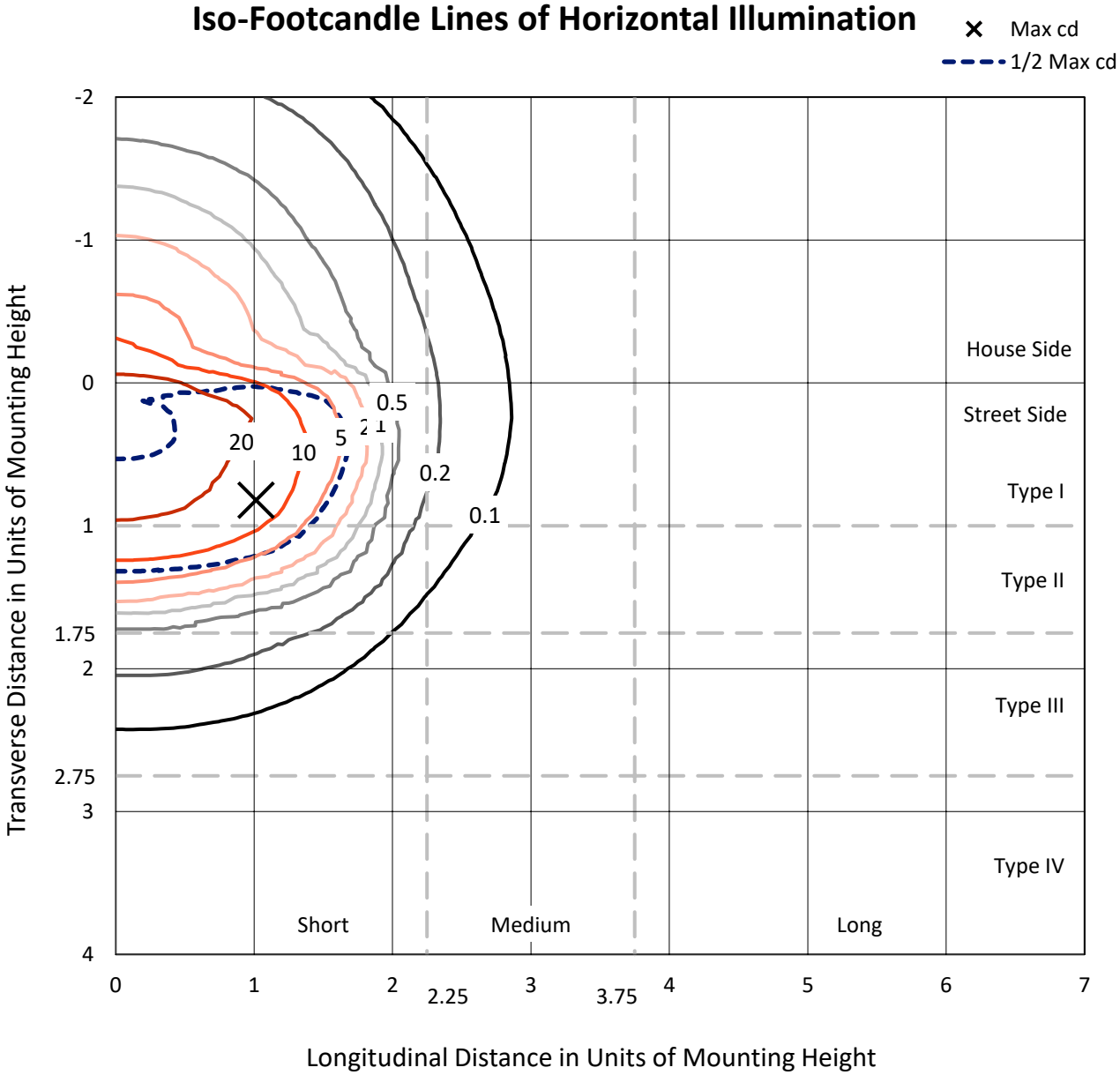
REPORT NUMBER: P633018
CATALOG NUMBER: GWS-SA2D-830-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 30.6 fc
Type II - Short - N/A

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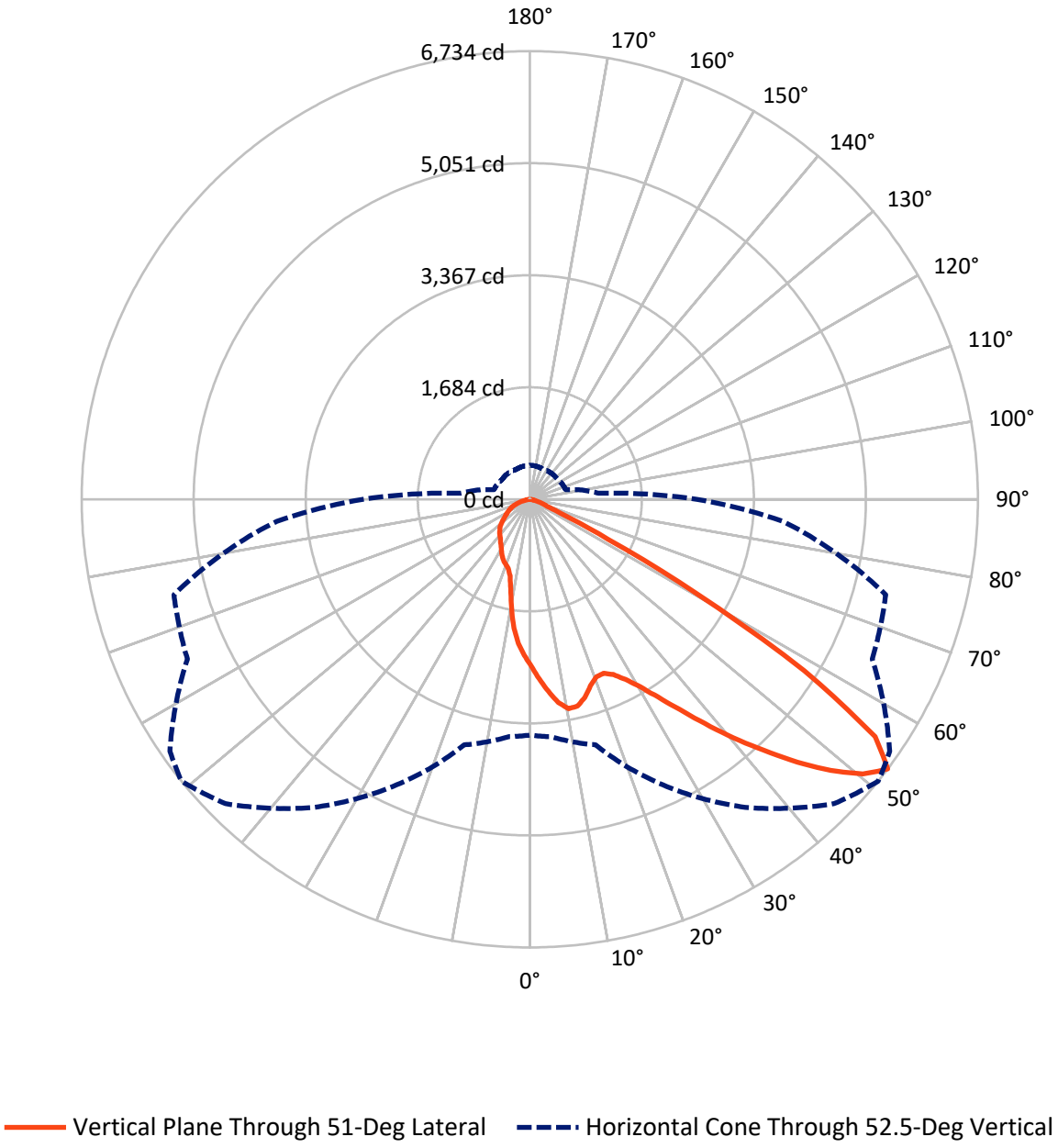
Luminous Intensity Polar Plot



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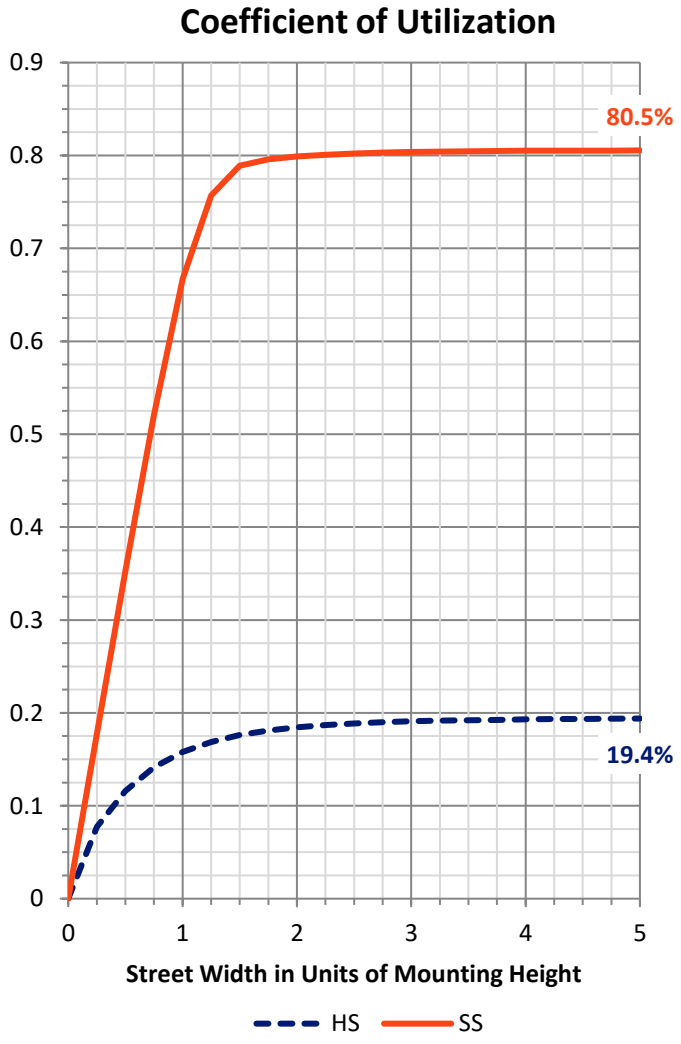
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1639.5	0.0	1639.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	6775.1	0.0	6775.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	8414.6	0.0	8414.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.8	2.8
10°-20°	607.5	7.2
20°-30°	987.7	11.7
30°-40°	1565.3	18.6
40°-50°	2360.8	28.1
50°-60°	2042.3	24.3
60°-70°	463.0	5.5
70°-80°	136.5	1.6
80°-90°	17.6	0.2
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°	8414.6	100.0
0°-180°	8414.6	100.0



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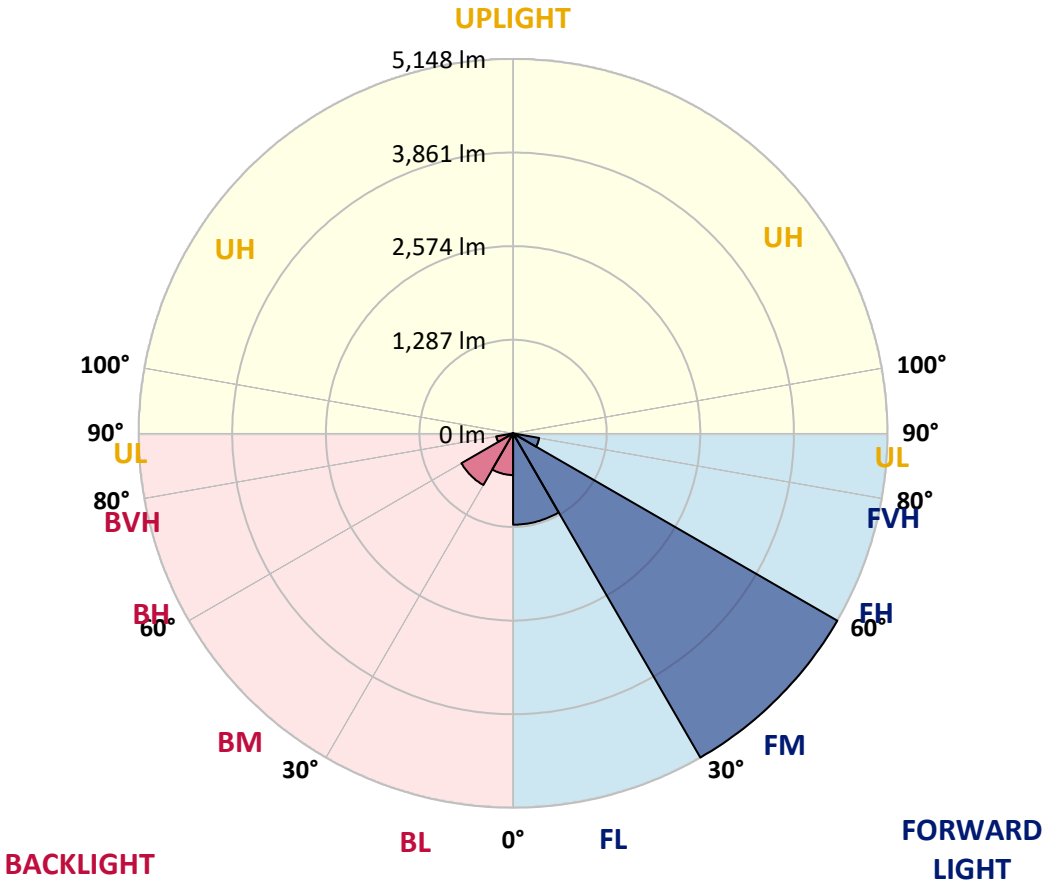
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1255.9	14.9			
FM	(30°-60°)	5148.2	61.2			
FH	(60°-80°)	364.4	4.3			G0/660
FVH	(80°-90°)	6.6	0.1			G0/10
BL	(0°-30°)	573.1	6.8	B2/1000		
BM	(30°-60°)	820.3	9.7	B1/1000		
BH	(60°-80°)	235.1	2.8	B1/500		G1/500
BVH	(80°-90°)	11.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P633018
CATALOG NUMBER: GWS-SA2D-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4
2.5°	2792.0	2808.0	2783.4	2774.1	2758.8	2732.2	2701.6	2693.0	2627.1	2583.9	2535.4
5°	3072.6	3081.3	3061.3	3041.4	3003.5	2956.3	2897.1	2884.5	2764.8	2665.7	2562.6
7.5°	3135.1	3131.8	3149.1	3160.4	3155.7	3137.1	3084.6	3060.0	2917.0	2760.1	2607.8
10°	2887.8	2869.2	2933.0	3008.8	3099.9	3204.9	3199.0	3197.0	3072.6	2887.1	2665.7
12.5°	2560.0	2550.7	2602.5	2697.6	2869.8	3102.6	3189.7	3257.5	3212.9	3008.1	2730.2
15°	2372.5	2369.1	2404.4	2472.9	2609.8	2903.7	3089.9	3224.2	3333.3	3137.8	2798.7
17.5°	2338.5	2340.5	2352.5	2391.7	2490.2	2732.2	2947.6	3135.1	3427.0	3280.1	2884.5
20°	2437.6	2450.9	2430.3	2436.3	2489.5	2670.3	2850.5	3045.4	3486.9	3423.0	2976.9
22.5°	2657.7	2653.1	2607.8	2581.2	2581.9	2708.2	2839.9	3003.5	3526.1	3562.0	3060.7
25°	2907.1	2901.7	2847.9	2788.7	2751.5	2811.3	2916.4	3048.0	3561.4	3689.0	3127.8
27.5°	3201.6	3185.0	3125.2	3049.4	2966.9	2992.8	3064.0	3168.4	3615.9	3814.0	3172.4
30°	3486.9	3506.2	3420.4	3330.6	3243.5	3227.6	3268.8	3363.2	3726.9	3960.3	3225.6
32.5°	3865.2	3858.6	3763.5	3646.5	3522.1	3510.2	3542.7	3629.2	3926.4	4162.4	3306.7
35°	4323.4	4324.7	4189.7	4031.5	3854.6	3822.7	3877.2	3961.0	4223.6	4436.4	3435.0
37.5°	4799.4	4797.5	4679.8	4500.2	4258.9	4213.6	4276.1	4338.7	4595.3	4809.4	3634.5
40°	5133.2	5146.5	5091.3	4996.9	4768.2	4657.8	4713.0	4756.2	4999.6	5248.3	3897.1
42.5°	5322.7	5342.7	5354.7	5411.2	5290.8	5173.1	5153.2	5175.8	5360.6	5655.9	4143.8
45°	5363.3	5389.9	5477.0	5686.5	5733.0	5699.8	5634.6	5580.1	5629.9	5945.1	4305.4
47.5°	5184.4	5231.0	5417.2	5783.5	6055.5	6159.9	6087.4	6004.3	5785.5	6019.6	4288.8
50°	4475.6	4530.2	4949.7	5585.4	6101.4	6481.7	6488.4	6365.3	5766.9	5804.8	4080.0
52.5°	3543.4	3580.6	3820.7	4734.9	5651.2	6468.4	6734.4	6602.7	5677.1	5536.2	3818.7
55°	2117.8	2177.6	2401.7	3123.8	4402.5	5733.0	6299.5	6363.4	5633.3	5310.8	3640.5
57.5°	714.8	744.1	958.2	1379.7	2594.5	4197.7	4867.3	5126.6	5114.0	4966.3	3292.7
60°	340.4	347.1	390.3	523.3	1038.6	2193.6	2881.1	3180.3	3453.0	3480.2	2048.6
62.5°	259.3	263.3	285.3	313.8	417.6	924.2	1320.5	1549.3	1655.0	1420.3	746.0
65°	216.8	220.1	236.7	254.7	283.9	400.3	506.7	584.5	526.6	410.3	355.7
67.5°	180.9	183.5	196.2	215.4	235.4	268.0	281.3	289.2	303.2	340.4	327.1
70°	141.6	144.3	157.6	174.2	193.5	201.5	214.1	222.1	250.0	297.9	296.6
72.5°	109.0	112.4	119.7	130.3	146.3	154.3	168.2	177.5	193.5	232.1	248.0
75°	79.8	81.8	88.4	91.8	93.8	91.8	105.7	116.4	137.6	152.3	156.3
77.5°	32.6	36.6	35.2	35.2	41.9	50.5	57.8	64.5	79.1	87.8	88.4
80°	13.3	14.6	17.3	19.3	23.3	29.9	34.6	37.2	43.9	49.2	53.2
82.5°	8.0	8.6	10.0	10.6	13.3	17.3	19.9	21.9	27.3	32.6	34.6
85°	4.0	4.0	4.7	5.3	6.6	8.0	9.3	10.6	14.0	17.3	19.3
87.5°	0.7	0.7	0.7	1.3	2.0	2.7	3.3	4.0	4.7	5.3	6.6
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4
2.5°	2506.8	2470.9	2429.0	2395.7	2357.2	2328.6	2288.0	2262.7	2238.8	2218.9	2204.2
5°	2509.4	2448.9	2361.8	2284.7	2204.9	2129.1	2051.3	1988.1	1931.6	1884.4	1880.4
7.5°	2524.7	2437.6	2301.3	2166.3	2010.7	1860.5	1710.2	1587.8	1494.8	1446.2	1436.2
10°	2550.7	2436.3	2239.5	2024.0	1758.7	1516.7	1338.5	1245.4	1191.5	1172.3	1165.6
12.5°	2577.9	2433.0	2160.3	1823.2	1454.9	1242.7	1145.0	1133.7	1143.7	1145.0	1144.3
15°	2611.2	2431.0	2060.6	1587.8	1232.8	1115.7	1122.4	1146.3	1169.6	1174.9	1174.9
17.5°	2651.7	2426.3	1925.0	1357.8	1093.8	1091.1	1126.4	1158.3	1180.2	1184.2	1184.2
20°	2694.3	2414.4	1758.1	1170.3	1037.3	1075.9	1113.8	1138.4	1153.6	1159.0	1159.6
22.5°	2723.5	2382.4	1565.9	1031.3	1002.0	1046.6	1073.9	1099.1	1099.1	1085.8	1081.8
25°	2729.5	2313.9	1357.8	936.2	960.2	1001.4	1029.3	1014.7	987.4	976.8	976.1
27.5°	2707.6	2214.2	1152.3	868.4	909.6	950.8	946.2	924.9	912.9	902.3	906.3
30°	2681.0	2094.5	974.1	812.5	851.1	891.7	875.7	868.4	859.8	847.8	850.4
32.5°	2663.0	1960.9	837.1	769.3	811.9	818.5	829.8	829.2	821.2	798.6	797.2
35°	2668.4	1825.9	745.4	734.1	779.3	776.6	797.9	793.9	738.7	707.5	705.5
37.5°	2710.9	1696.2	691.5	706.2	727.4	744.1	762.7	714.8	695.5	675.6	676.9
40°	2792.0	1575.9	662.3	690.9	696.2	720.8	677.6	676.9	668.3	650.3	649.6
42.5°	2883.8	1474.1	642.3	683.5	676.2	680.9	635.0	640.3	639.7	628.4	625.0
45°	2939.6	1380.4	626.4	656.3	658.3	611.7	597.8	603.8	607.1	601.1	600.4
47.5°	2881.8	1272.7	609.7	614.4	631.7	580.5	563.2	563.9	569.8	570.5	567.8
50°	2719.6	1152.3	589.8	578.5	567.2	547.9	531.9	528.6	534.6	540.6	542.6
52.5°	*2510.1*	*1037.3*	*556.5*	*539.3*	*512.7*	*512.7*	*505.3*	*494.7*	*502.7*	*510.7*	*513.3*
55°	2356.5	952.2	509.3	490.1	460.8	470.8	469.4	460.1	470.8	476.8	478.7
57.5°	2042.0	765.3	448.2	442.2	417.6	429.5	432.2	420.2	414.9	416.2	418.2
60°	1212.2	494.0	404.3	403.6	381.7	395.6	403.6	391.6	375.7	377.7	380.3
62.5°	543.9	377.7	349.1	346.4	345.8	363.7	372.4	361.1	338.4	340.4	343.1
65°	342.4	326.5	303.2	303.2	313.8	329.1	335.8	326.5	300.5	297.2	299.9
67.5°	317.8	303.9	279.9	275.3	280.6	293.2	293.9	275.9	260.7	258.0	258.0
70°	285.3	274.6	251.3	242.0	240.0	239.4	237.4	232.7	222.8	220.1	221.4
72.5°	236.0	228.7	214.1	204.1	198.8	198.1	190.2	186.2	177.5	176.2	175.5
75°	156.3	158.3	158.3	156.9	152.3	150.3	141.6	137.6	127.7	123.7	123.0
77.5°	92.4	94.4	97.1	97.7	97.1	97.1	89.1	84.4	74.5	69.2	67.8
80°	56.5	57.8	59.2	61.2	58.5	56.5	49.2	44.6	39.9	36.6	35.9
82.5°	36.6	37.9	38.6	39.9	38.6	35.9	29.9	27.3	23.9	21.3	20.6
85°	20.6	21.3	22.6	22.6	20.6	18.6	15.3	13.3	11.3	10.0	10.0
87.5°	7.3	7.3	7.3	8.0	6.6	6.0	4.0	2.7	2.0	2.0	2.0
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

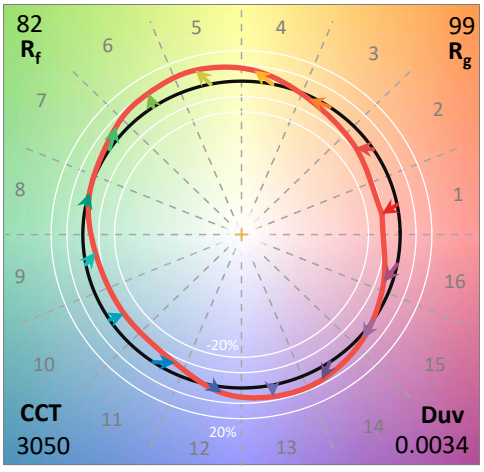
Test Information

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

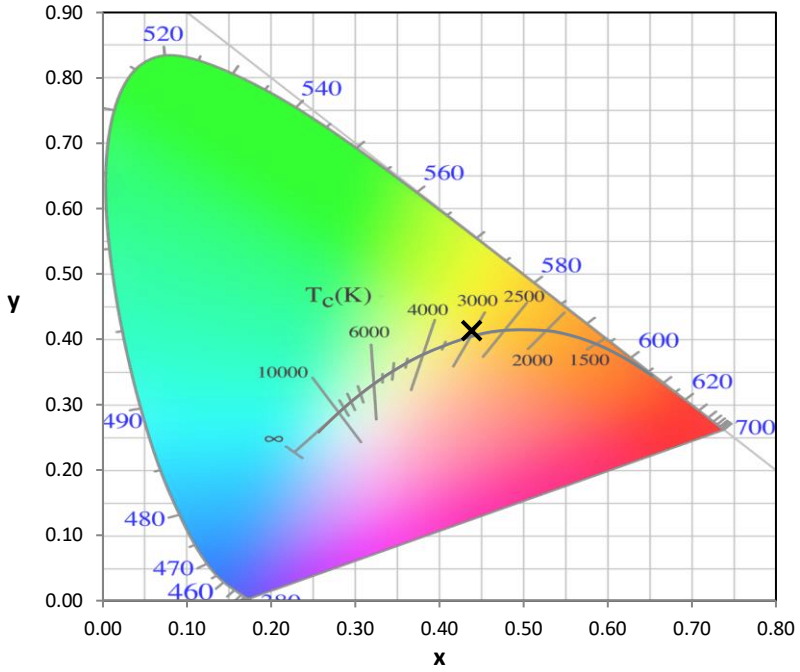
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

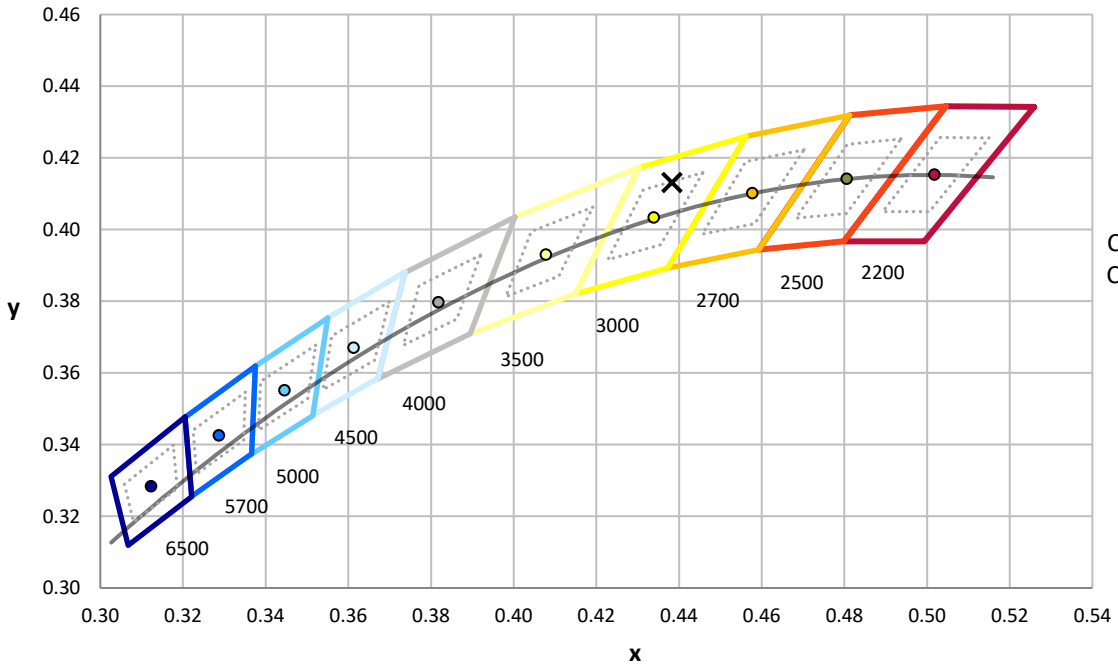
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

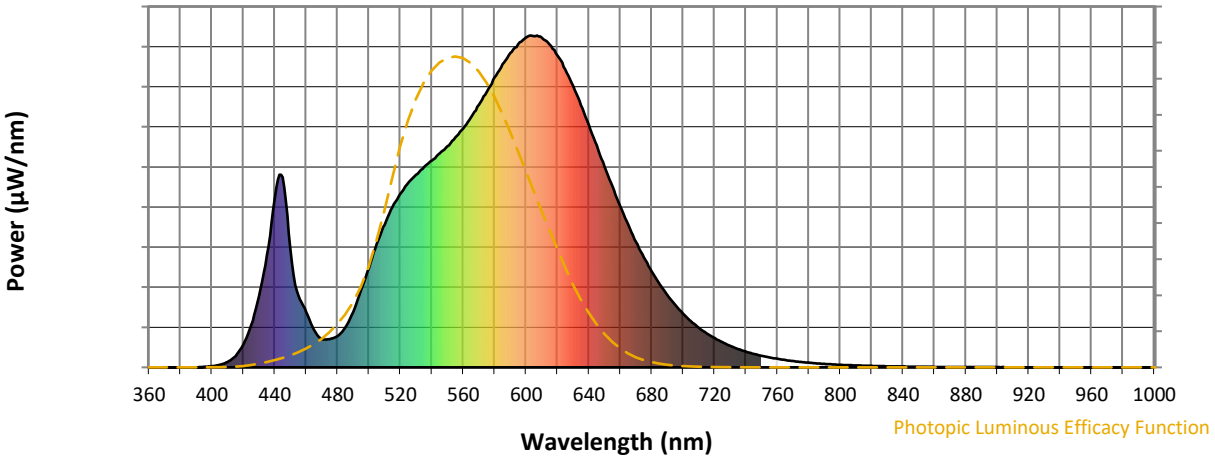


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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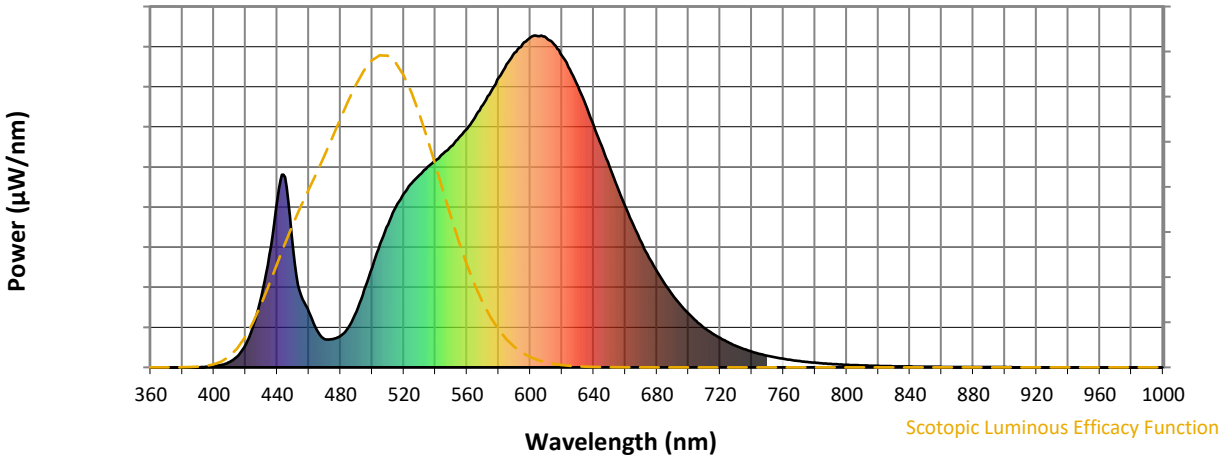
Scotopic Flux vs. Wavelength



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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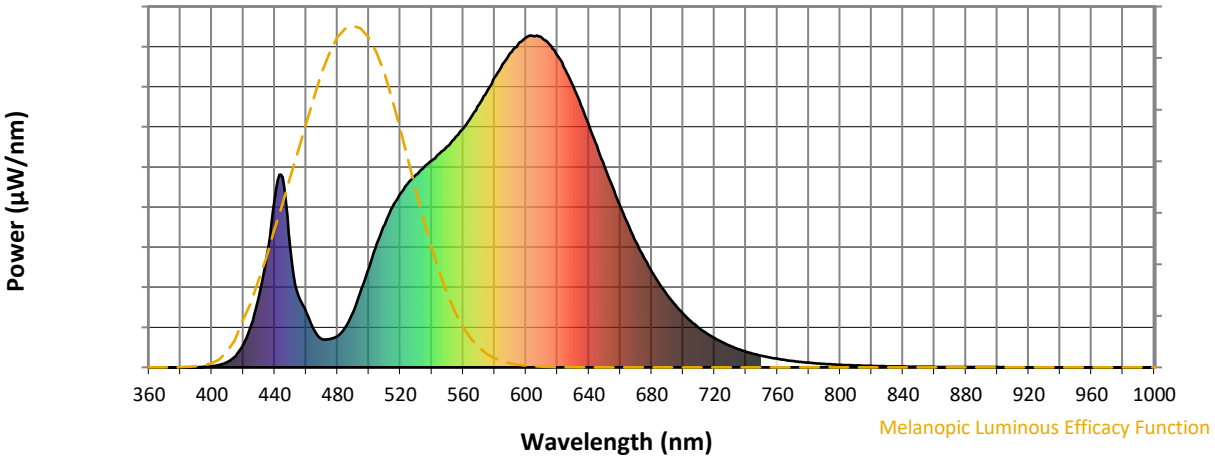
Melanopic Flux vs. Wavelength



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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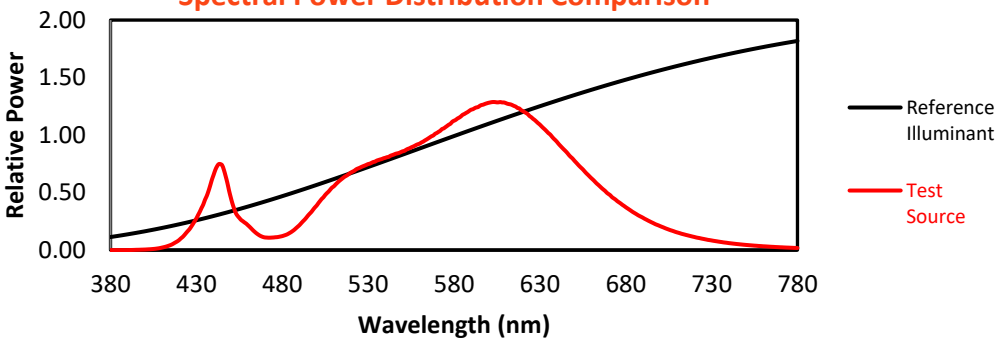
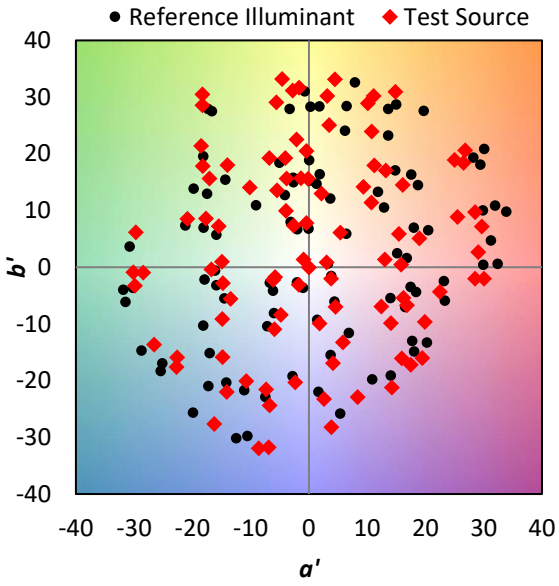
Summary

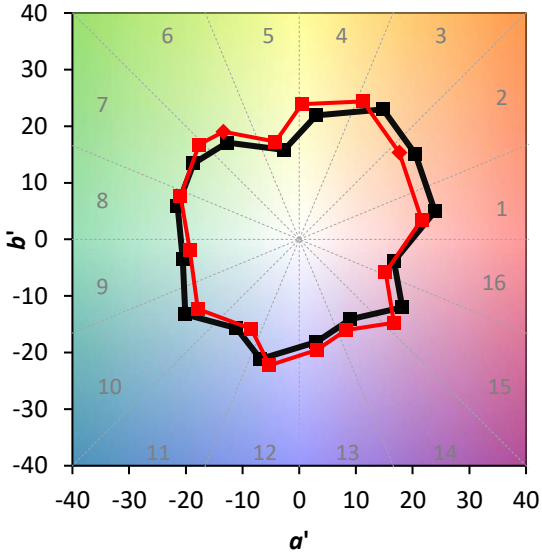
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

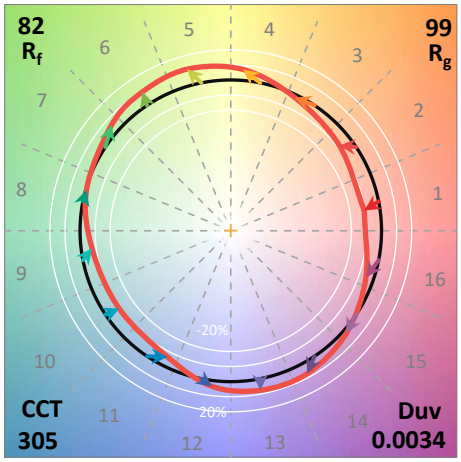
Spectral Power Distribution Comparison

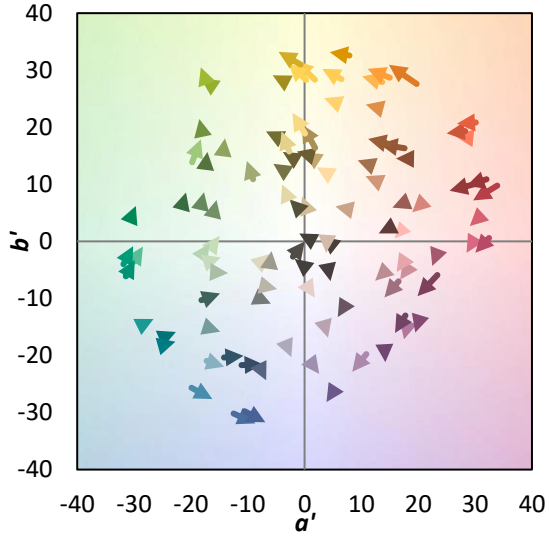


Color Vector Graphics









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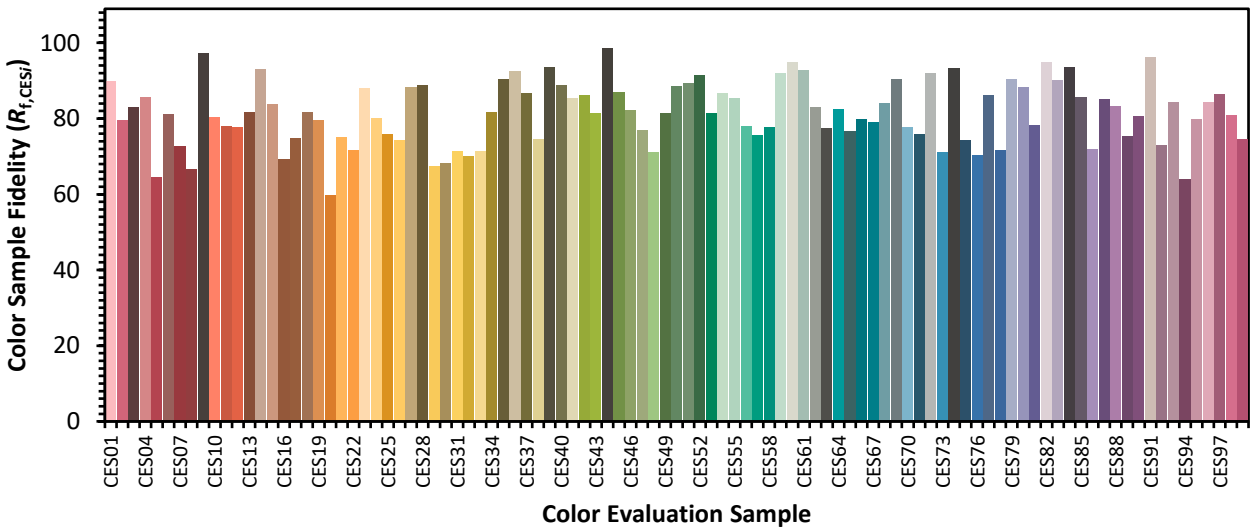
Individual Sample Fidelity Index ($R_{f,i}$)

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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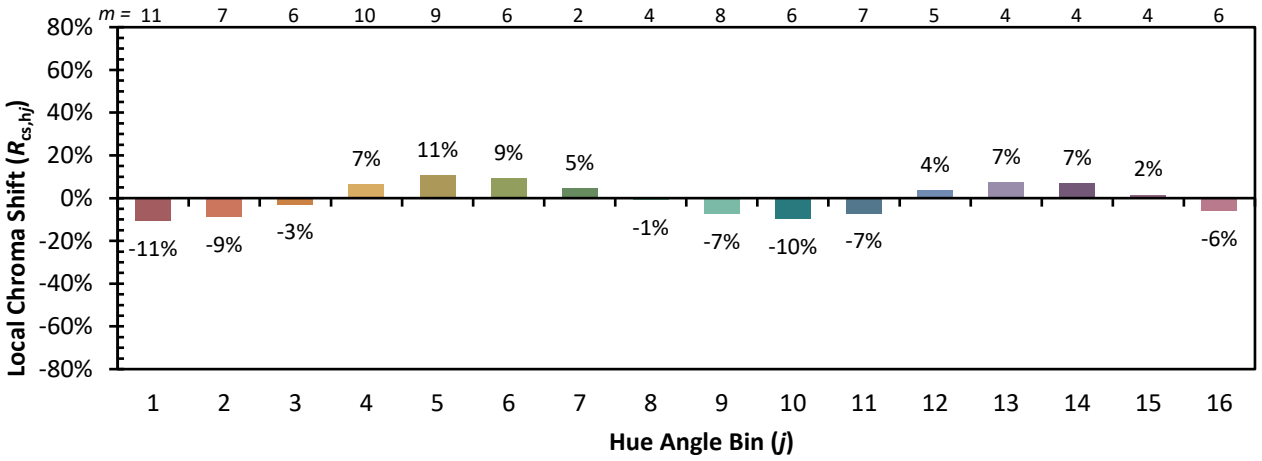
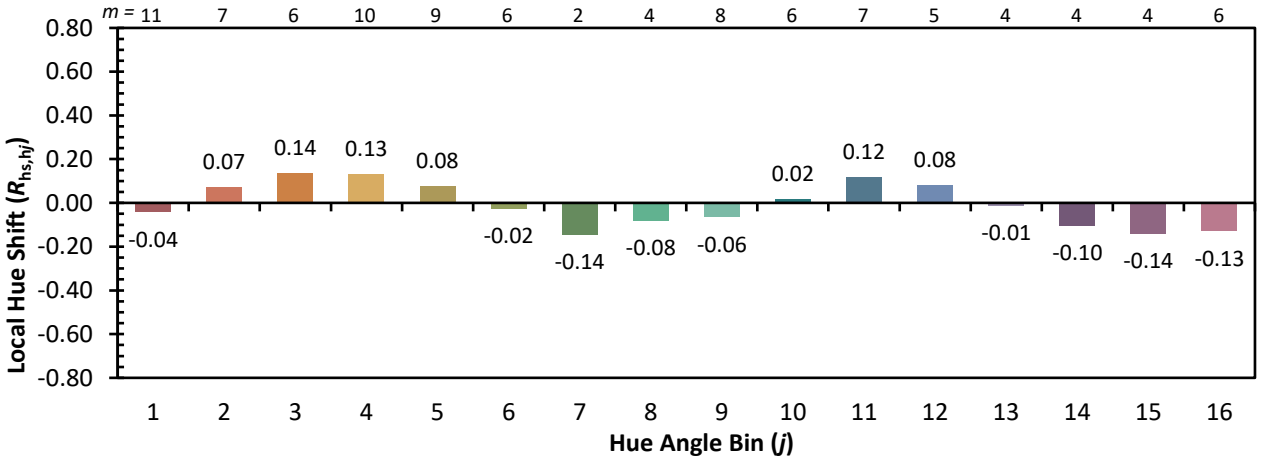
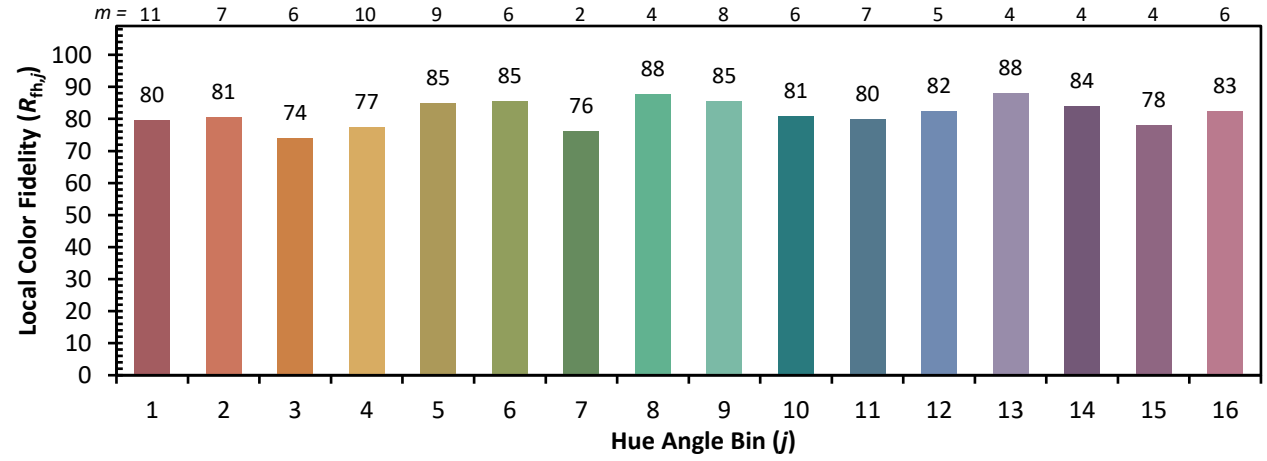
Color Rendition by Hue-Angle Bin







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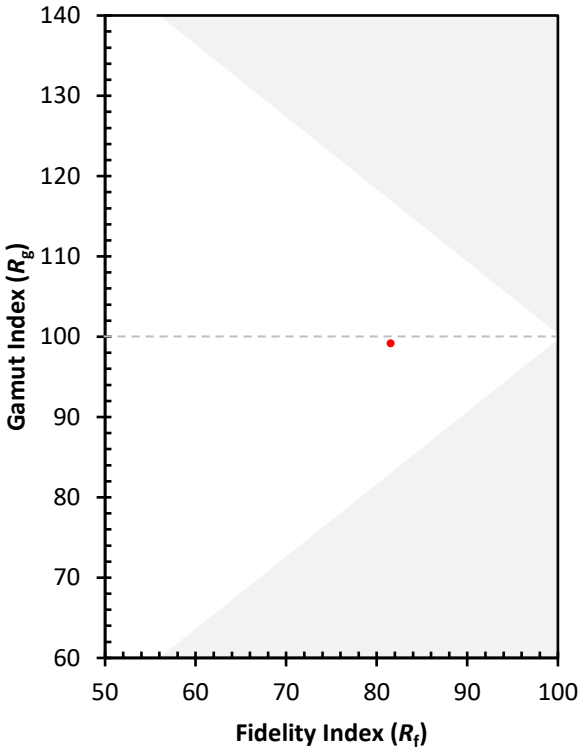
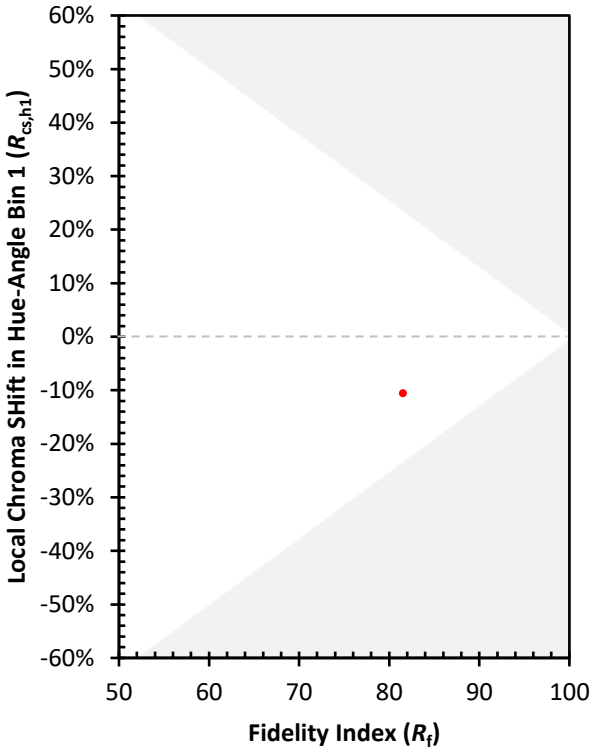
Measure Comparisons





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