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: P642943

Luminaire Tested: GWS-SA6D-830-U-T2-W-GRSBK

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:	P642943
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6D-830-U-T2-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16903 lumens
Efficiency:	N/A
Efficacy:	68.8 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

Input Watts (W):	245.7
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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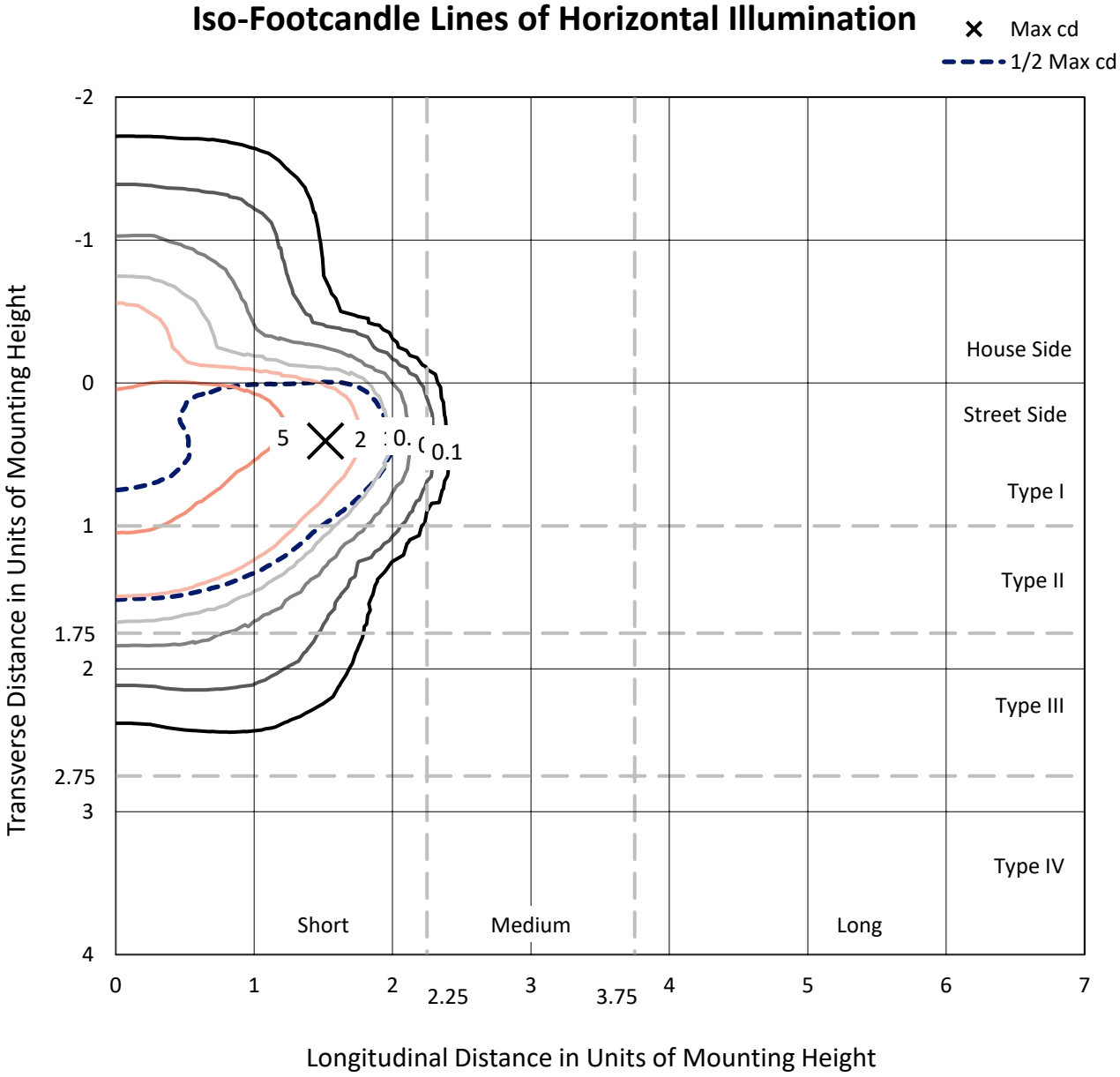
REPORT NUMBER: P642943
CATALOG NUMBER: GWS-SA6D-830-U-T2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
Type II - Short - N/A

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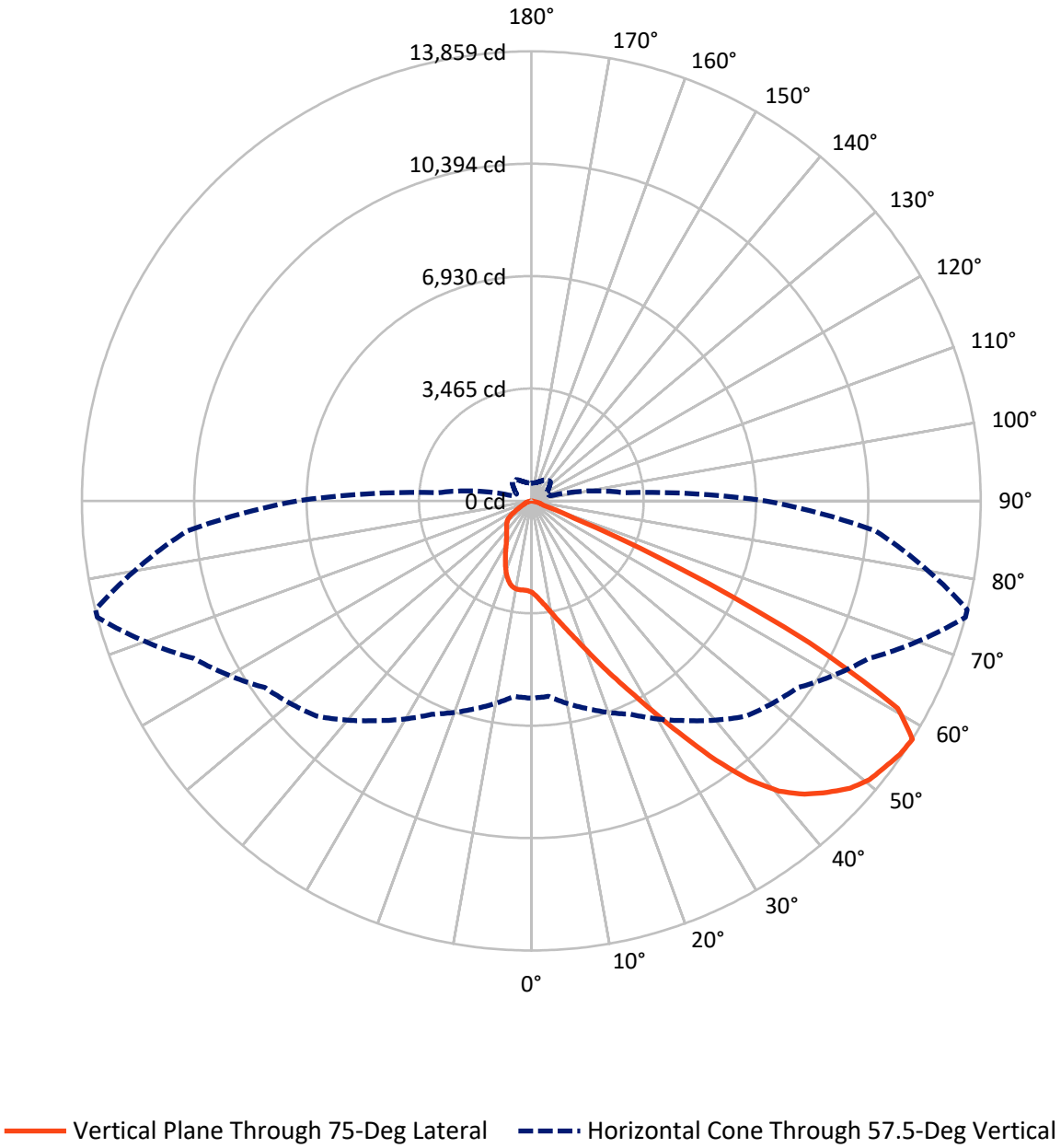
Luminous Intensity Polar Plot



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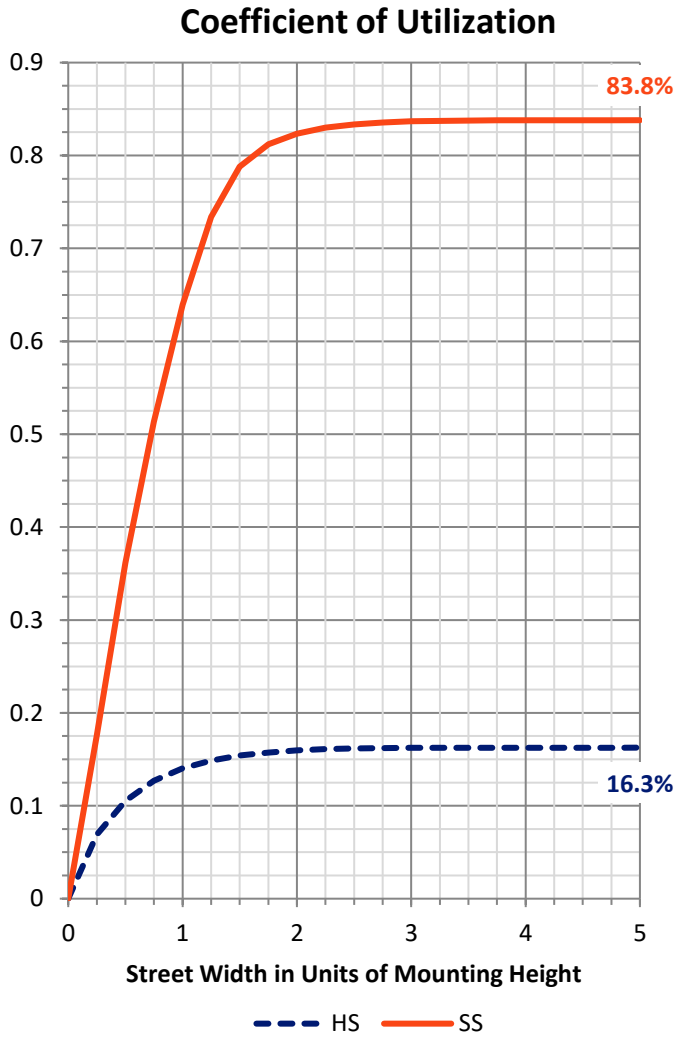
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2761.1	0.0	2761.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	14141.9	0.0	14141.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	16903.0	0.0	16903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.9	1.7
10°-20°	931.9	5.5
20°-30°	1706.5	10.1
30°-40°	2831.3	16.8
40°-50°	4324.0	25.6
50°-60°	4858.8	28.7
60°-70°	1792.1	10.6
70°-80°	171.3	1.0
80°-90°	0.1	0.0
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°	16903.0	100.0
0°-180°	16903.0	100.0



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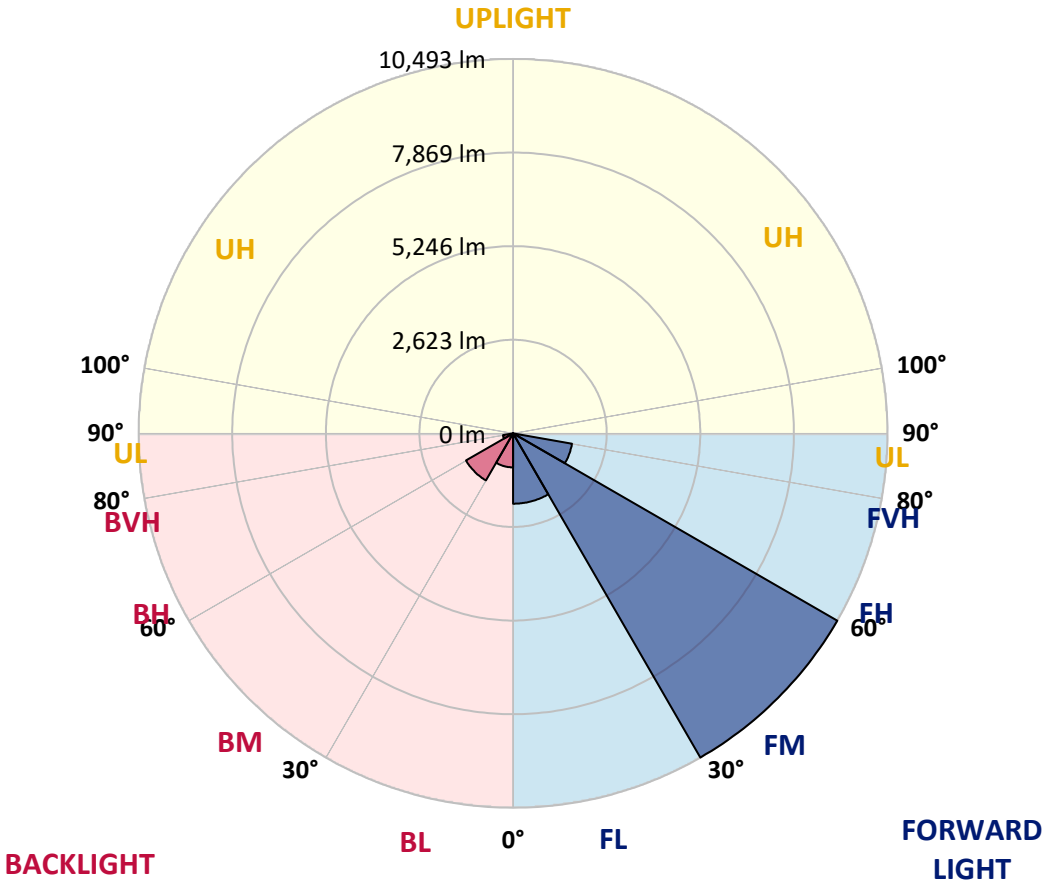
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1972.5	11.7			
FM	(30°-60°)	10492.6	62.1			
FH	(60°-80°)	1676.7	9.9			G1/1800
FVH	(80°-90°)	0.1	0.0			G0/10
BL	(0°-30°)	952.7	5.6	B2/1000		
BM	(30°-60°)	1521.5	9.0	B2/2500		
BH	(60°-80°)	286.7	1.7	B1/500		G1/500
BVH	(80°-90°)	0.1	0.0			G0/10
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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REPORT NUMBER: P642943
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2
2.5°	3149.7	3182.3	3172.1	3151.7	3139.5	3096.6	3070.1	2992.6	2937.5	2931.4	2880.4
5°	3547.4	3541.3	3533.2	3508.7	3488.3	3421.0	3341.4	3210.9	3094.6	3080.3	2972.2
7.5°	3765.7	3769.8	3773.9	3769.8	3755.5	3704.5	3616.8	3463.8	3286.3	3274.1	3102.7
10°	3855.5	3863.6	3884.0	3922.8	3957.5	3953.4	3902.4	3745.3	3527.0	3506.6	3276.1
12.5°	3898.3	3908.5	3941.1	4014.6	4108.4	4181.9	4190.0	4049.3	3808.6	3775.9	3482.2
15°	3957.5	3967.7	4008.5	4104.3	4241.0	4385.9	4479.7	4389.9	4120.7	4086.0	3708.6
17.5°	3984.0	3998.3	4057.4	4183.9	4361.4	4583.7	4795.9	4787.7	4489.9	4463.4	3971.7
20°	4035.0	4045.2	4098.2	4234.9	4449.1	4769.4	5126.3	5254.9	4940.7	4902.0	4290.0
22.5°	4196.1	4200.2	4224.7	4310.4	4510.3	4904.0	5462.9	5799.5	5473.1	5422.1	4647.0
25°	4459.3	4457.2	4467.4	4481.7	4628.6	5040.7	5787.3	6413.5	6083.1	6028.0	5050.9
27.5°	4793.8	4793.8	4818.3	4777.5	4836.7	5210.0	6107.6	7119.4	6793.0	6715.5	5493.5
30°	5187.5	5185.5	5242.6	5177.3	5195.7	5477.2	6452.3	7888.4	7649.7	7553.9	6003.5
32.5°	5722.0	5709.8	5775.0	5685.3	5624.1	5881.1	6872.5	8692.1	8675.8	8529.0	6644.1
35°	6397.2	6376.8	6397.2	6309.5	6199.4	6446.2	7423.3	9493.8	9814.1	9659.1	7407.0
37.5°	7068.4	7133.6	7156.1	7005.1	6915.4	7162.2	8086.3	10211.9	10901.4	10740.2	8200.5
40°	7859.9	7839.5	7917.0	7747.7	7690.5	7963.9	8735.0	10746.4	11762.2	11609.2	8906.3
42.5°	8443.3	8480.0	8575.9	8482.0	8437.2	8694.2	9279.6	11058.5	12359.9	12209.0	9410.2
45°	9143.0	9169.5	9206.2	9128.7	9081.8	9334.7	9673.4	11195.1	12814.8	12651.7	9748.8
47.5°	9899.8	9920.2	9920.2	9761.1	9610.1	9714.2	9936.5	11272.7	13233.0	13076.0	9999.7
50°	10442.4	10452.6	10542.4	10430.2	10101.7	9940.6	10056.9	11348.1	13510.5	13363.6	10081.3
52.5°	9961.0	9948.7	10244.5	10477.1	10564.8	10244.5	10264.9	11458.3	13645.1	13518.6	10146.6
55°	8388.2	8367.8	8783.9	9349.0	10122.1	10532.2	10515.8	11523.6	13794.0	13716.5	10383.3
57.5°	6081.0	6046.4	6625.7	7254.0	8267.8	9379.6	10032.4	11486.9	13859.3	13853.2	10658.6
60°	3655.6	3627.0	4173.7	4834.6	5618.0	6735.9	7819.1	10289.4	12986.2	12998.4	9942.6
62.5°	2250.0	2276.6	2770.2	3106.8	3398.5	3735.1	4361.4	6921.5	9620.3	9699.9	6986.8
65°	1513.6	1534.0	1991.0	2415.3	2415.3	1974.7	1695.2	3308.8	5132.5	4997.8	3304.7
67.5°	1015.9	1038.3	1399.4	1895.1	1966.5	1377.0	687.5	987.3	1430.0	1387.2	818.0
70°	597.7	622.2	932.2	1299.4	1432.0	958.8	459.0	418.2	405.9	393.7	318.2
72.5°	267.2	277.4	475.3	660.9	603.8	403.9	324.3	334.5	316.2	310.1	259.1
75°	81.6	85.7	122.4	142.8	144.8	144.8	195.8	263.2	248.9	250.9	199.9
77.5°	20.4	20.4	32.6	30.6	16.3	14.3	36.7	59.2	61.2	55.1	40.8
80°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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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REPORT NUMBER: P642943
CATALOG NUMBER: GWS-SA6D-830-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2
2.5°	2857.9	2804.9	2770.2	2721.3	2686.6	2649.9	2617.2	2590.7	2576.4	2572.4	2574.4
5°	2923.2	2839.6	2758.0	2664.2	2598.9	2537.7	2488.7	2450.0	2431.6	2425.5	2425.5
7.5°	3023.2	2906.9	2762.1	2615.2	2505.0	2409.2	2352.0	2309.2	2292.9	2288.8	2276.6
10°	3153.7	2994.6	2755.9	2527.5	2372.4	2272.5	2231.7	2219.4	2225.6	2227.6	2225.6
12.5°	3310.8	3086.4	2717.2	2399.0	2231.7	2170.5	2174.6	2207.2	2243.9	2262.3	2266.4
15°	3478.1	3170.1	2629.5	2246.0	2111.3	2109.3	2168.4	2243.9	2315.3	2345.9	2354.1
17.5°	3665.8	3237.4	2494.8	2082.8	2007.3	2066.5	2172.5	2288.8	2384.7	2435.7	2445.9
20°	3871.8	3292.4	2323.5	1929.8	1915.5	2021.6	2168.4	2311.2	2429.6	2486.7	2496.9
22.5°	4086.0	3331.2	2125.6	1789.0	1831.9	1970.6	2129.7	2268.4	2380.6	2445.9	2454.0
25°	4330.8	3335.3	1923.7	1670.7	1754.3	1901.2	2035.9	2150.1	2243.9	2301.0	2307.2
27.5°	4545.0	3286.3	1744.1	1574.8	1682.9	1815.5	1905.3	1968.5	2033.8	2066.5	2068.5
30°	4791.8	3200.7	1574.8	1497.3	1609.5	1709.5	1754.3	1768.6	1774.7	1780.9	1772.7
32.5°	5085.5	3096.6	1448.4	1421.8	1525.9	1593.2	1605.4	1576.9	1542.2	1493.2	1481.0
35°	5446.6	3002.8	1344.3	1348.4	1434.1	1474.9	1464.7	1403.5	1336.2	1277.0	1266.8
37.5°	5838.3	2923.2	1264.8	1277.0	1334.1	1362.7	1332.1	1264.8	1234.2	1183.2	1185.2
40°	6185.1	2857.9	1193.4	1205.6	1232.1	1258.6	1209.7	1164.8	1221.9	1217.8	1221.9
42.5°	6431.9	2802.9	1132.2	1126.0	1144.4	1162.8	1126.0	1103.6	1199.5	1173.0	1187.2
45°	6576.7	2751.9	1081.2	1044.4	1073.0	1105.6	1081.2	1052.6	1085.2	962.8	952.6
47.5°	6674.7	2723.3	1036.3	964.9	1015.9	1073.0	1022.0	952.6	905.7	799.7	791.5
50°	6684.9	2709.0	983.2	883.3	948.6	1009.8	950.6	854.7	787.4	740.5	734.4
52.5°	6737.9	2737.6	909.8	779.3	850.7	948.6	907.8	811.9	720.1	679.3	671.1
55°	6974.5	2857.9	787.4	636.5	740.5	901.6	873.1	724.2	636.5	612.0	605.9
57.5°	*7219.3*	*2882.4*	*620.1*	*503.9*	*644.6*	*834.3*	*797.6*	*667.1*	*581.4*	*552.8*	*546.7*
60°	6601.2	2374.5	465.1	416.1	569.1	771.1	738.5	632.4	532.4	497.7	491.6
62.5°	4336.9	1283.1	369.2	352.9	479.4	652.8	673.2	571.2	475.3	438.6	436.5
65°	1999.1	595.7	283.6	279.5	375.3	520.2	579.3	499.8	401.9	369.2	369.2
67.5°	544.7	295.8	222.4	206.0	255.0	348.8	422.3	373.3	285.6	246.8	244.8
70°	271.3	238.7	199.9	177.5	183.6	216.2	248.9	208.1	144.8	118.3	116.3
72.5°	222.4	195.8	169.3	151.0	138.7	132.6	128.5	104.0	67.3	51.0	49.0
75°	165.2	140.8	120.4	97.9	83.6	77.5	69.4	51.0	28.6	16.3	14.3
77.5°	36.7	34.7	32.6	24.5	22.4	18.4	14.3	10.2	4.1	0.0	0.0
80°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

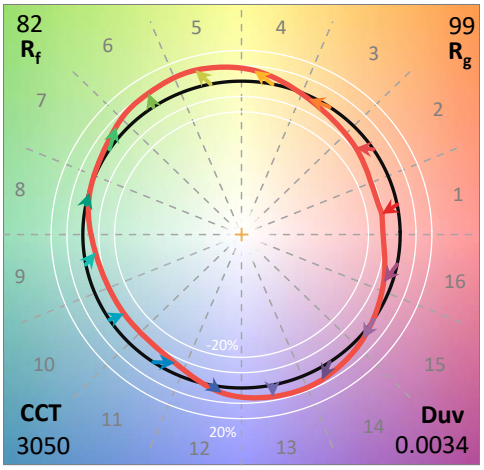
Test Information

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

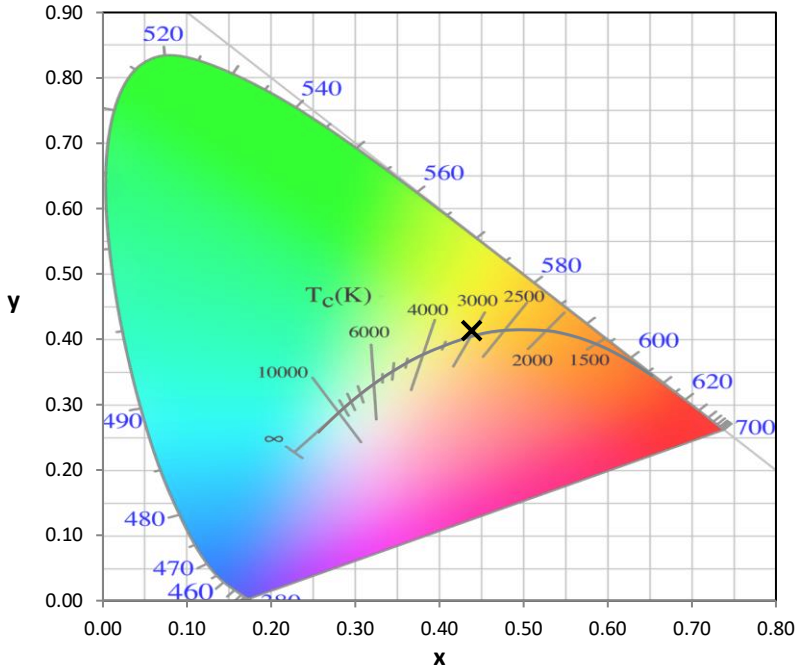
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

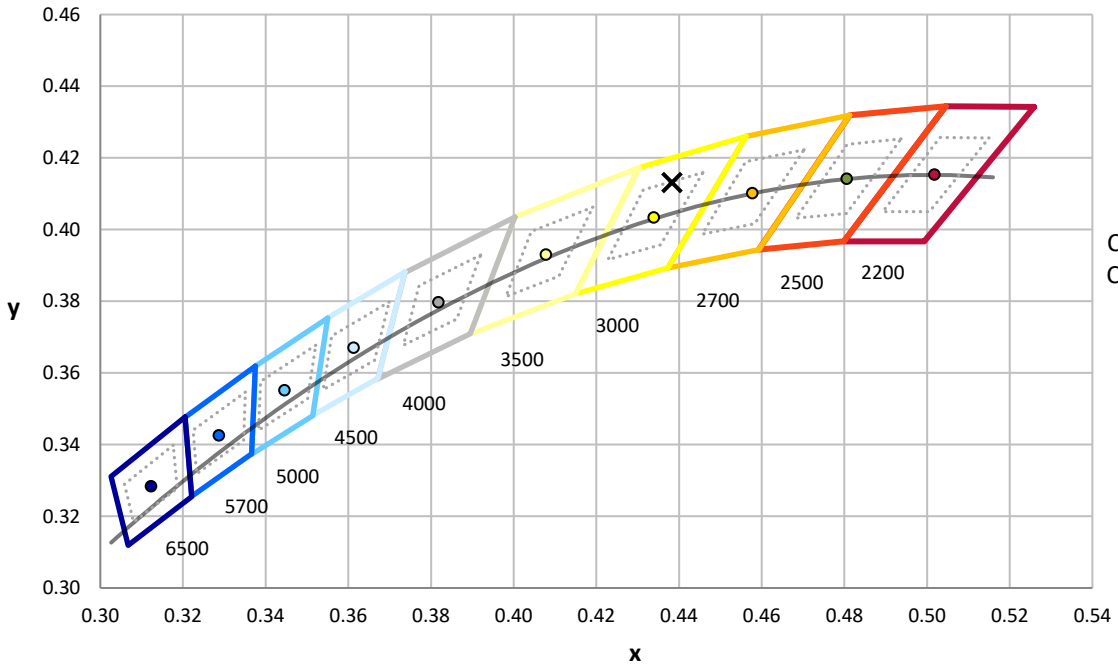
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

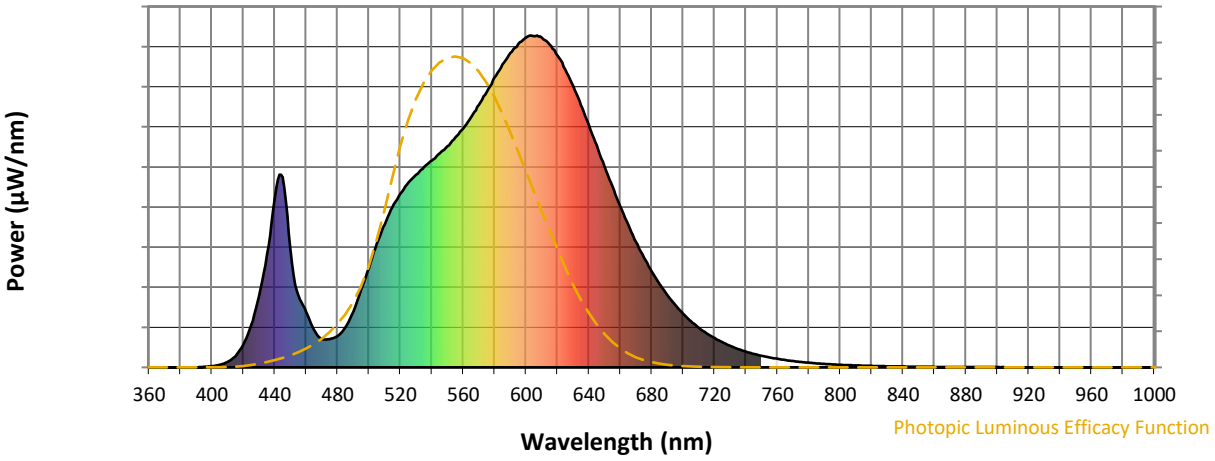


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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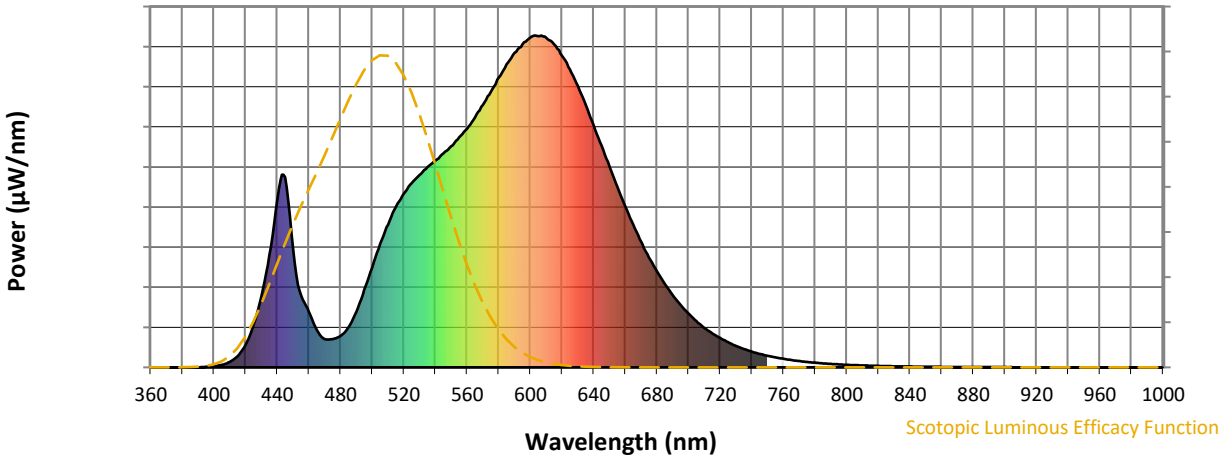
Scotopic Flux vs. Wavelength



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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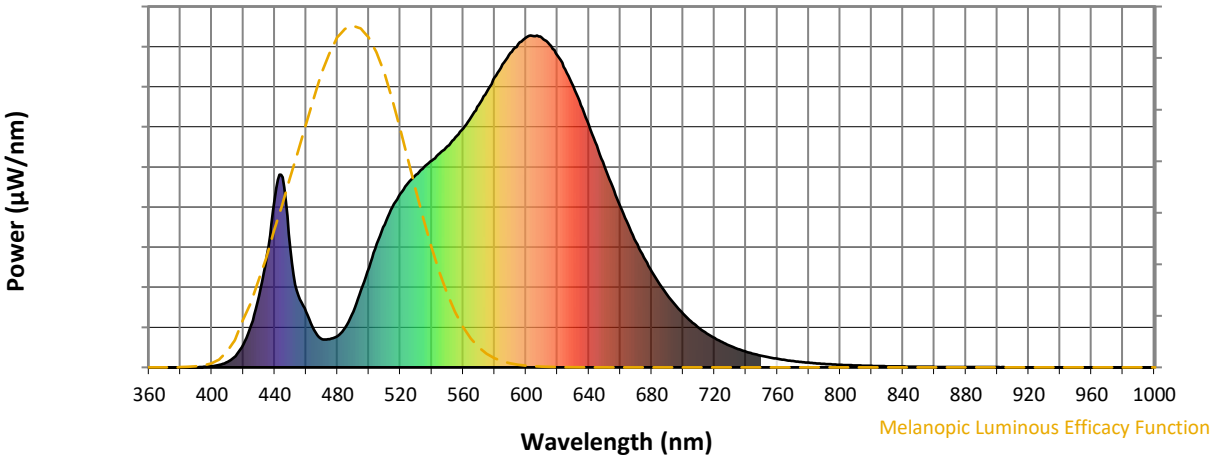
Melanopic Flux vs. Wavelength



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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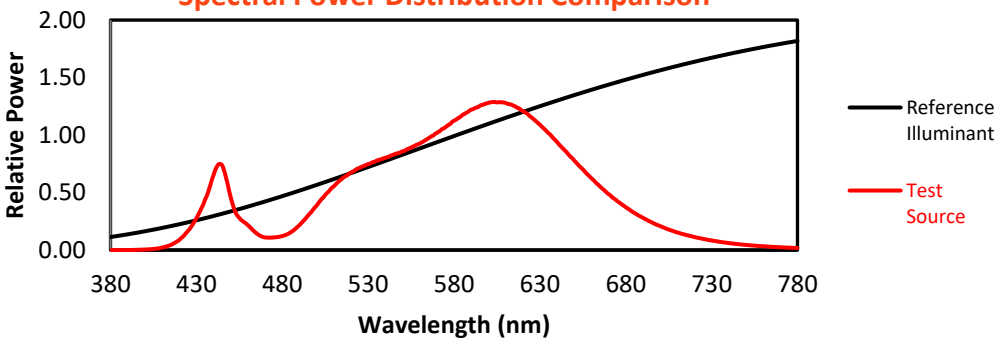
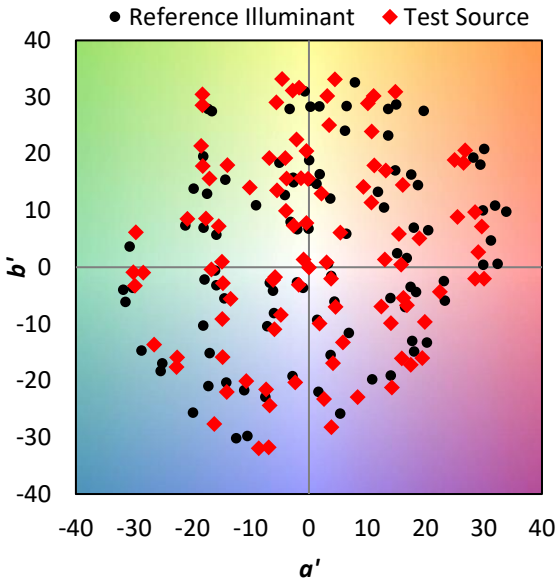
Summary

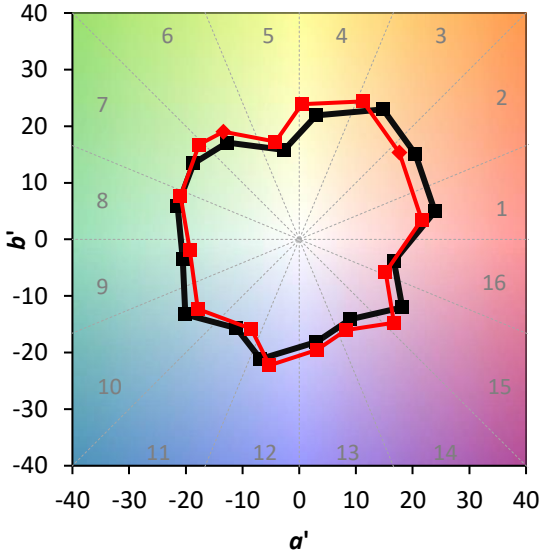
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

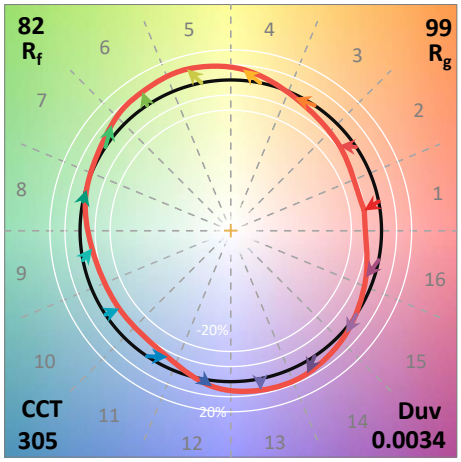
Spectral Power Distribution Comparison

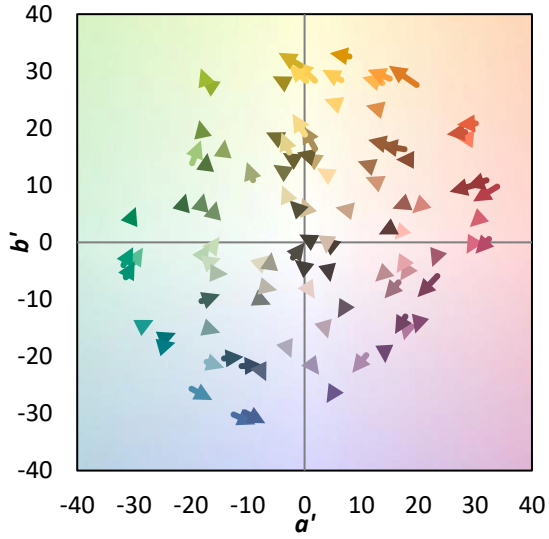


Color Vector Graphics









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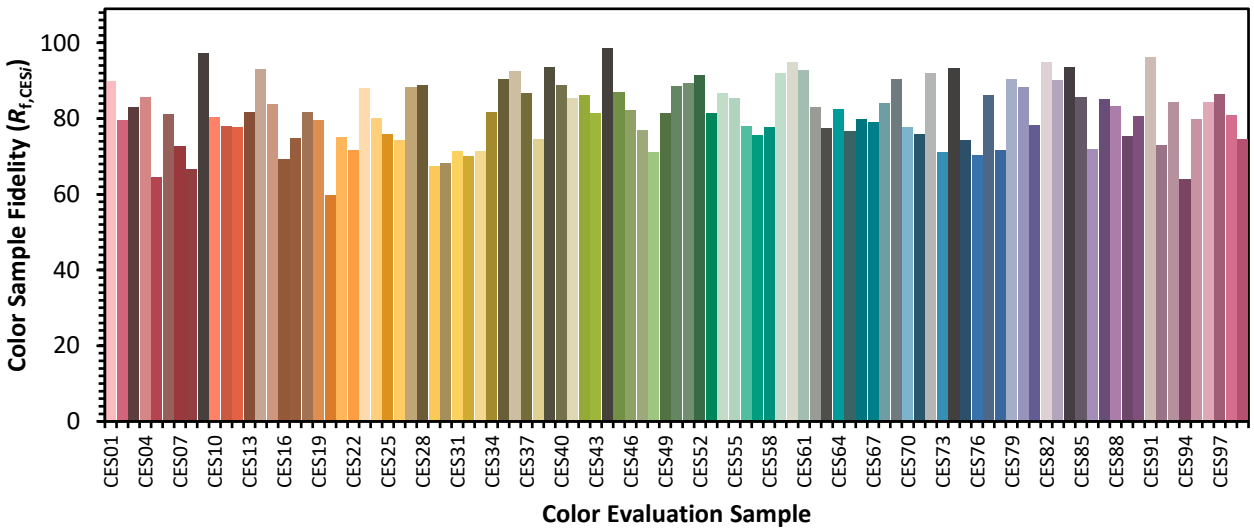
Individual Sample Fidelity Index ($R_{f,i}$)

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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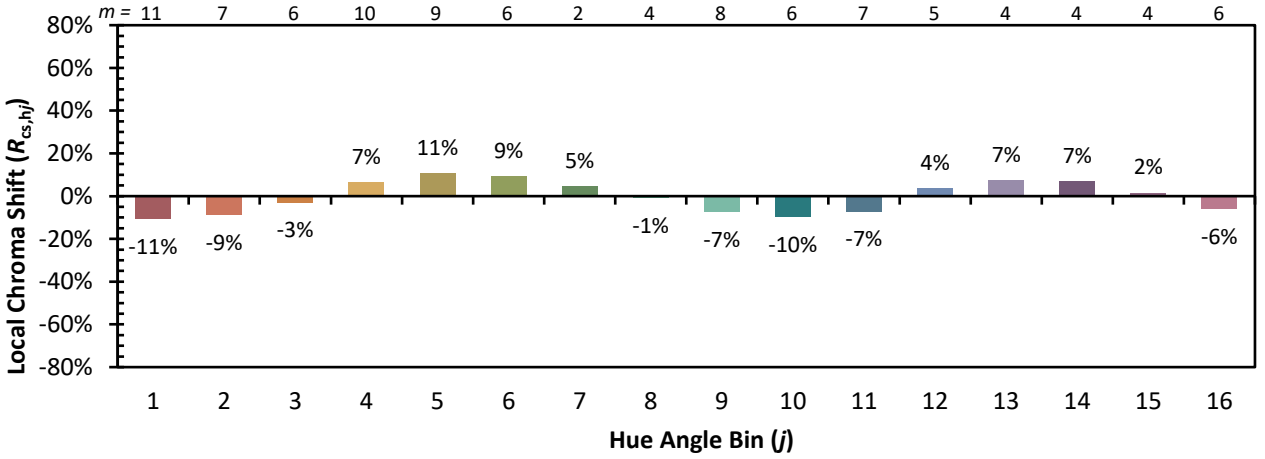
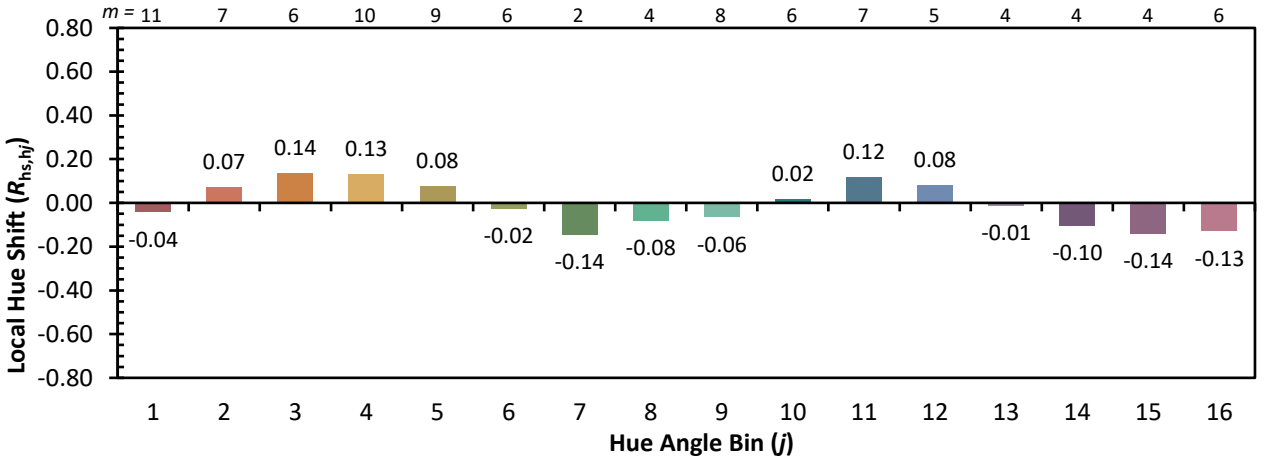
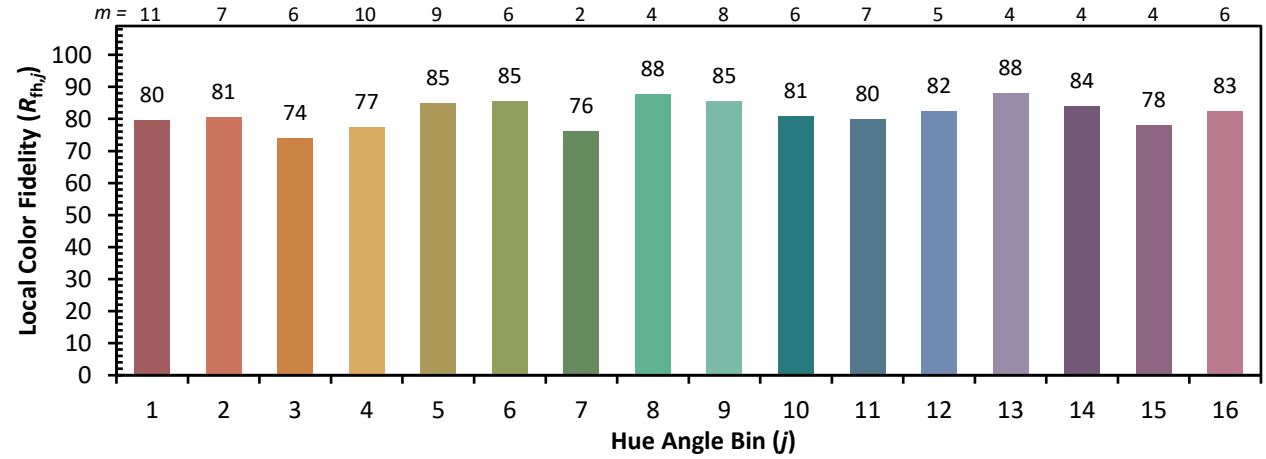
Color Rendition by Hue-Angle Bin







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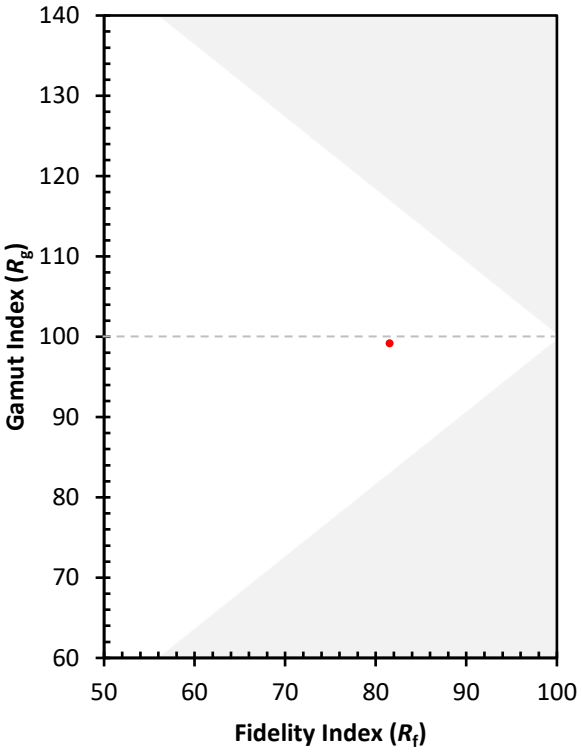
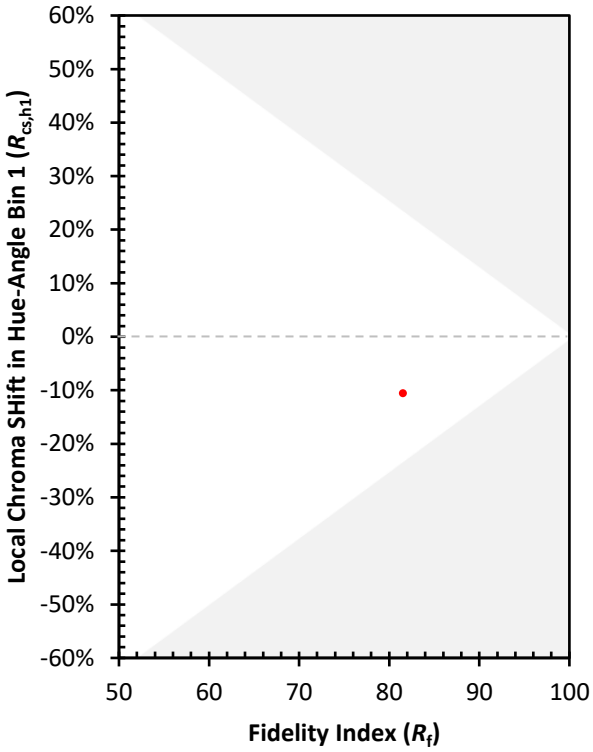
Measure Comparisons





(END OF REPORT)