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: P639493

Luminaire Tested: GWS-SA5B-830-U-T3R-W

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:	P639493
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5B-830-U-T3R-W
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14339.1 lumens
Efficiency:	N/A
Efficacy:	123.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G3

Input Watts (W):	115.7
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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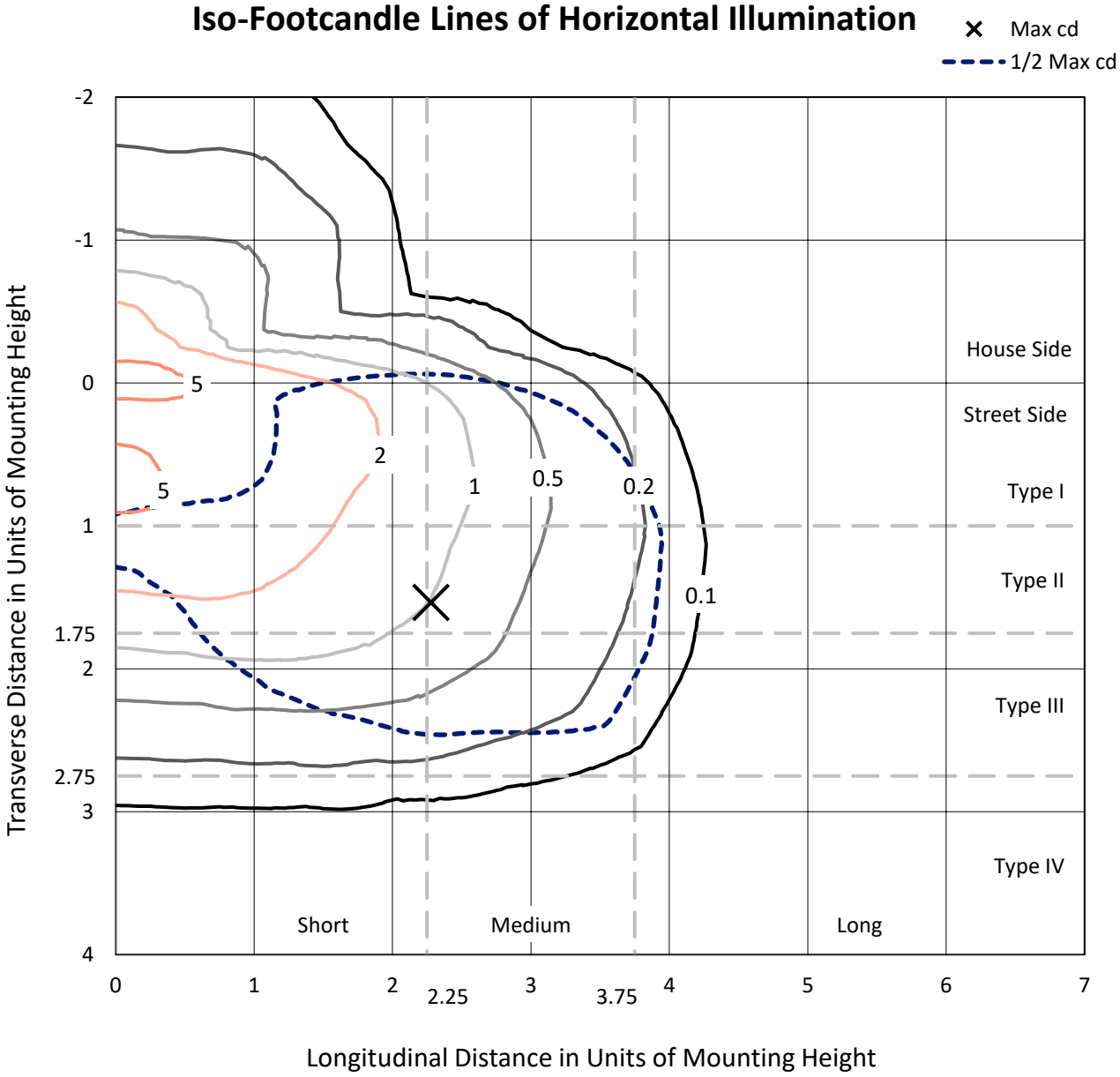
Scaled Data Report

REPORT NUMBER: P639493
CATALOG NUMBER: GWS-SA5B-830-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 6 fc
Type III - Medium - N/A

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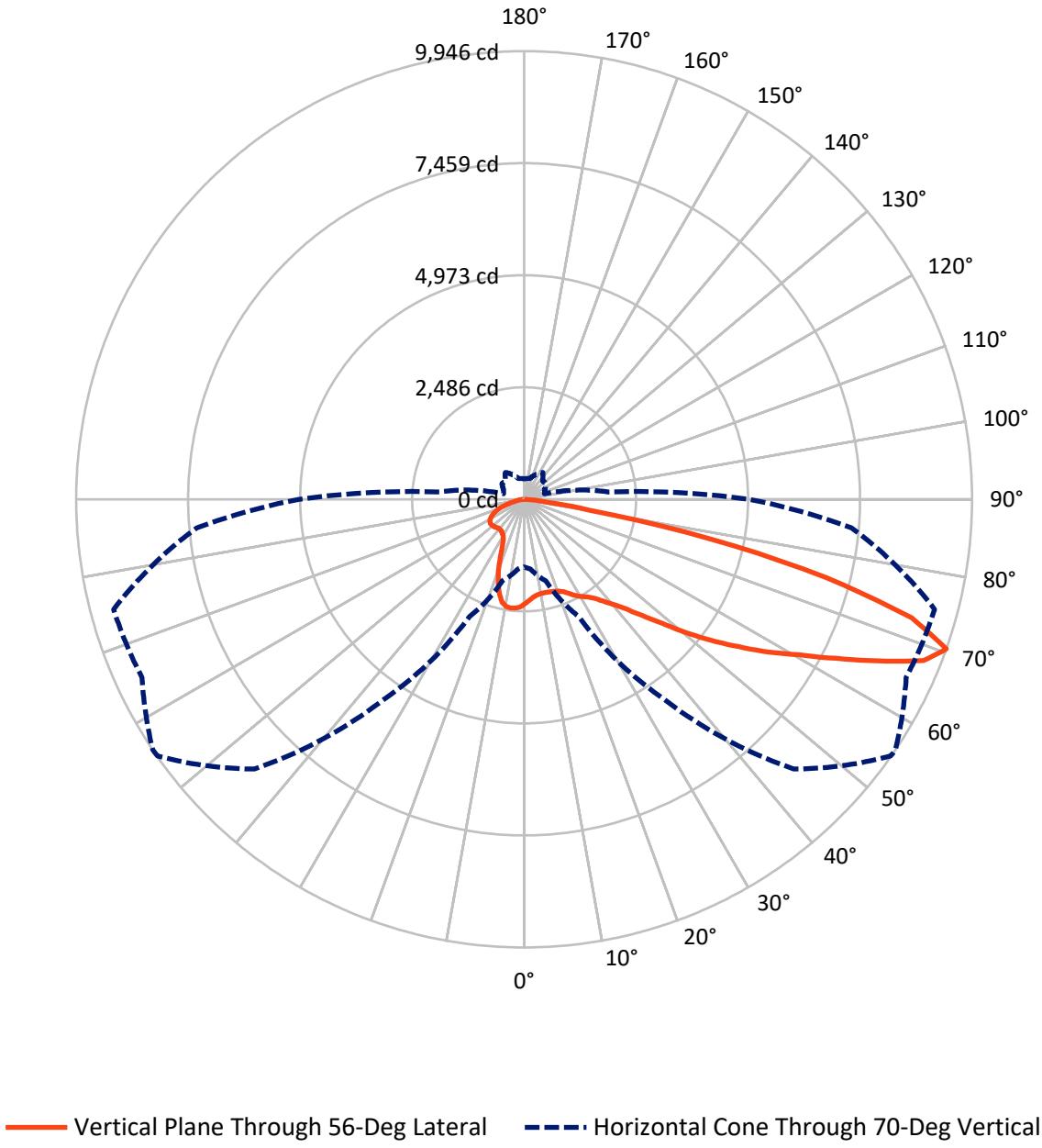
Luminous Intensity Polar Plot



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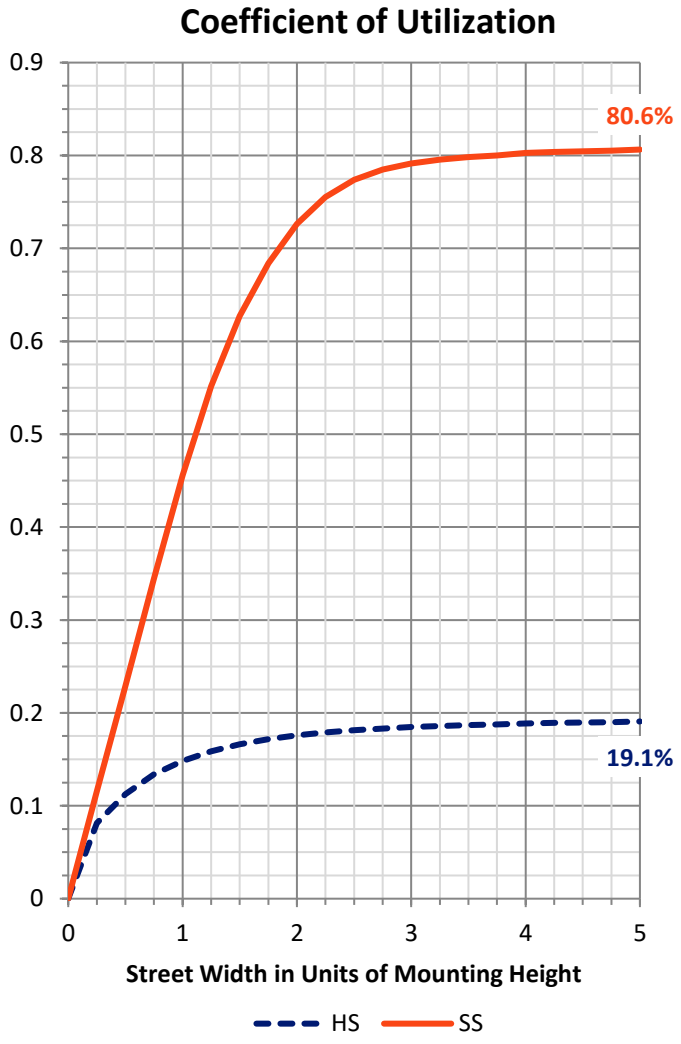
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2756.7	0.0	2756.7
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	11582.4	0.0	11582.4
	% Fixture	80.8	0.0	80.8
Total	Lumens	14339.1	0.0	14339.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.2	1.5
10°-20°	580.3	4.0
20°-30°	959.5	6.7
30°-40°	1434.5	10.0
40°-50°	2134.8	14.9
50°-60°	3035.0	21.2
60°-70°	3759.0	26.2
70°-80°	2075.6	14.5
80°-90°	146.2	1.0
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°	14339.1	100.0
0°-180°	14339.1	100.0



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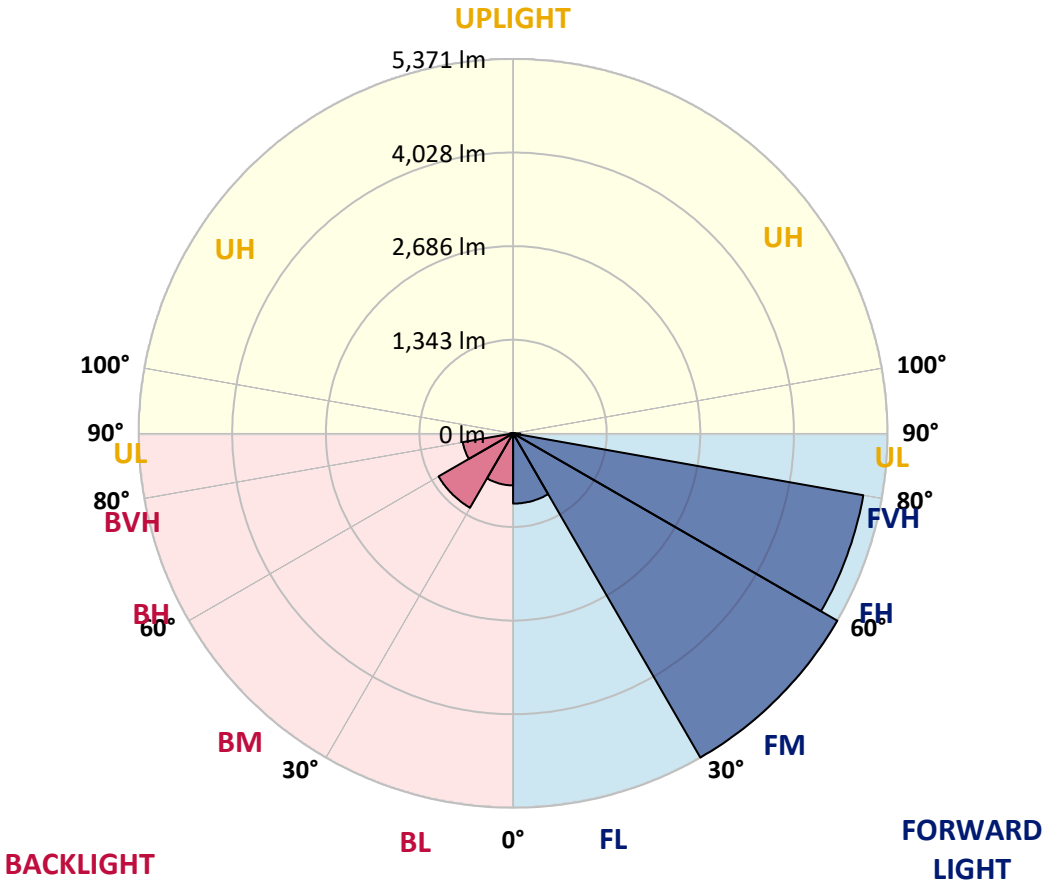
CATALOG NUMBER: GWS-SA5B-830-U-T3R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1007.7	7.0			
FM	(30°-60°)	5371.2	37.5			
FH	(60°-80°)	5101.9	35.6			G3/7500
FVH	(80°-90°)	101.6	0.7			G2/225
BL	(0°-30°)	746.3	5.2	B2/1000		
BM	(30°-60°)	1233.1	8.6	B2/2500		
BH	(60°-80°)	732.7	5.1	B2/1000		G2/1000
BVH	(80°-90°)	44.6	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-G3
Type III Medium



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REPORT NUMBER: P639493
CATALOG NUMBER: GWS-SA5B-830-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6
2.5°	2165.9	2153.8	2167.9	2175.0	2193.2	2219.5	2242.8	2243.8	2255.9	2285.2	2313.5
5°	2067.8	2061.8	2065.8	2087.0	2106.3	2139.6	2175.0	2178.0	2212.4	2270.1	2326.7
7.5°	1992.0	1983.9	1999.1	2026.4	2050.6	2088.1	2134.6	2138.6	2187.1	2274.1	2361.1
10°	1882.8	1876.7	1905.0	1941.4	1994.0	2055.7	2117.4	2122.4	2186.1	2300.4	2421.7
12.5°	1835.3	1835.3	1847.4	1881.8	1939.4	2021.3	2114.3	2122.4	2202.3	2340.8	2499.6
15°	1909.1	1914.1	1904.0	1902.0	1925.3	2003.1	2118.4	2130.5	2232.6	2382.3	2576.4
17.5°	2057.7	2062.8	2036.5	1995.0	1971.8	2020.3	2133.6	2146.7	2265.0	2427.8	2659.4
20°	2266.0	2272.1	2214.4	2150.7	2070.9	2069.8	2162.9	2175.0	2306.5	2477.3	2747.3
22.5°	2509.7	2513.8	2440.9	2339.8	2217.5	2161.9	2213.4	2225.6	2360.1	2546.1	2842.4
25°	2791.8	2804.0	2716.0	2569.4	2403.5	2288.3	2297.4	2311.5	2456.1	2638.1	2954.6
27.5°	3093.1	3108.3	3007.2	2845.4	2616.9	2427.8	2405.6	2417.7	2558.2	2694.7	3014.3
30°	3401.6	3412.7	3311.6	3126.5	2846.4	2585.5	2496.6	2503.6	2602.7	2722.0	3074.9
32.5°	3744.3	3735.2	3638.2	3424.8	3111.3	2774.6	2581.5	2579.5	2652.3	2776.7	3161.9
35°	4065.9	4079.0	3975.9	3740.3	3402.6	3008.2	2708.9	2700.8	2757.4	2865.6	3284.3
37.5°	4455.2	4451.1	4327.8	4073.0	3694.8	3231.7	2887.9	2873.7	2893.9	3004.2	3455.1
40°	4733.3	4761.6	4681.7	4444.1	4036.6	3506.7	3097.2	3065.8	3070.9	3175.1	3683.7
42.5°	4960.8	4987.1	4995.1	4843.5	4427.9	3846.5	3358.1	3326.7	3329.8	3477.4	3964.8
45°	5135.7	5171.1	5285.3	5240.9	4868.7	4238.8	3711.0	3678.6	3680.6	3844.4	4304.5
47.5°	5207.5	5245.9	5477.5	5583.6	5336.9	4708.0	4149.8	4102.3	4109.4	4290.4	4692.8
50°	5184.2	5235.8	5549.3	5847.6	5729.2	5185.2	4674.6	4641.2	4613.9	4876.8	5114.5
52.5°	4984.0	5040.6	5542.2	6015.4	6049.8	5636.2	5216.6	5197.4	5191.3	5499.7	5585.7
55°	4394.5	4489.6	5298.5	6059.9	6300.6	6060.9	5804.1	5771.7	5803.1	6167.1	6061.9
57.5°	4067.9	4138.7	4821.2	6010.4	6505.8	6465.4	6390.5	6393.6	6429.0	6892.1	6639.3
60°	3881.9	3964.8	4556.3	5874.9	6703.0	6956.8	7004.3	7004.3	7068.0	7673.7	7225.8
62.5°	3635.1	3719.1	4308.6	5614.0	6885.0	7535.2	7775.8	7772.8	7798.1	8512.0	7799.1
65°	3134.6	3212.5	3811.1	5202.4	6974.0	8172.2	8652.5	8643.4	8592.9	9258.2	8178.3
67.5°	2276.1	2349.9	2919.2	4419.8	6653.5	8685.9	9555.5	9559.5	9257.2	9728.4	8198.5
70°	1500.6	1551.1	1876.7	2870.7	5410.7	8464.4	9933.7	9945.8	9359.3	9435.2	7296.5
72.5°	936.3	971.7	1171.9	1711.9	3197.3	6700.0	8962.9	8996.3	8420.0	8291.5	5995.2
75°	621.9	646.1	779.6	998.0	1479.3	3626.0	6813.2	6920.4	6748.5	6499.8	4177.1
77.5°	374.1	394.4	496.5	634.0	655.2	1416.6	3976.9	4254.0	4278.2	3393.5	1749.3
80°	170.9	194.1	274.0	362.0	348.9	493.4	1402.5	1467.2	1731.1	1077.9	552.1
82.5°	101.1	111.2	182.0	180.0	148.6	239.6	504.6	517.7	439.9	394.4	235.6
85°	40.4	47.5	76.8	67.7	54.6	77.9	190.1	199.2	191.1	171.9	87.0
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	17.2	18.2	26.3	47.5	26.3
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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Scaled Data Report

REPORT NUMBER: P639493
CATALOG NUMBER: GWS-SA5B-830-U-T3R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6
2.5°	2331.7	2325.7	2356.0	2379.3	2389.4	2399.5	2390.4	2387.4	2387.4	2367.1	2357.0
5°	2357.0	2360.1	2401.5	2420.7	2420.7	2412.6	2388.4	2371.2	2365.1	2338.8	2331.7
7.5°	2404.5	2417.7	2456.1	2455.1	2426.8	2382.3	2321.6	2275.1	2232.6	2214.4	2203.3
10°	2482.4	2499.6	2525.9	2483.4	2404.5	2287.2	2158.8	2057.7	1997.0	1948.5	1948.5
12.5°	2571.4	2587.6	2582.5	2484.4	2321.6	2102.2	1917.2	1800.9	1715.9	1671.5	1671.5
15°	2660.4	2673.5	2618.9	2437.9	2148.7	1856.5	1654.3	1514.7	1440.9	1399.4	1399.4
17.5°	2750.4	2749.4	2634.1	2330.7	1923.2	1584.5	1386.3	1278.1	1252.8	1245.8	1244.7
20°	2837.3	2814.1	2614.9	2151.8	1661.3	1310.5	1185.1	1192.2	1229.6	1245.8	1247.8
22.5°	2935.4	2877.8	2558.2	1923.2	1364.1	1120.4	1128.5	1187.1	1241.7	1266.0	1269.0
25°	3035.5	2932.4	2463.2	1655.3	1115.3	1050.6	1113.3	1179.0	1240.7	1272.0	1275.1
27.5°	3076.0	2932.4	2301.4	1344.8	982.9	1021.3	1090.0	1153.7	1218.5	1254.9	1261.9
30°	3109.3	2907.1	2074.9	1064.8	928.2	993.0	1052.6	1111.3	1175.0	1219.5	1227.6
32.5°	3155.8	2884.8	1800.9	894.9	903.0	965.7	1007.1	1056.7	1114.3	1143.6	1140.6
35°	3210.4	2850.5	1470.2	814.0	881.7	942.4	971.7	1001.1	974.8	973.7	976.8
37.5°	3288.3	2820.1	1182.0	777.6	867.6	926.2	950.5	887.8	851.4	836.2	830.2
40°	3400.5	2808.0	932.3	756.3	865.6	925.2	908.0	811.0	761.4	708.8	707.8
42.5°	3542.1	2798.9	770.5	746.2	872.6	948.5	849.4	760.4	658.3	635.0	633.0
45°	3724.1	2784.7	689.6	744.2	889.8	966.7	843.3	690.6	620.9	610.7	610.7
47.5°	3943.5	2762.5	653.2	744.2	909.0	958.6	825.1	675.5	603.7	614.8	621.9
50°	4195.3	2734.2	634.0	742.2	928.2	958.6	786.7	672.4	599.6	657.3	680.5
52.5°	4464.3	2701.8	620.9	734.1	941.4	959.6	788.7	682.5	603.7	667.4	686.6
55°	4761.6	2696.8	602.7	716.9	945.4	933.3	793.8	704.8	609.7	604.7	605.7
57.5°	5136.7	2757.4	589.5	691.6	929.3	879.7	803.9	721.0	602.7	603.7	610.7
60°	5529.0	2871.7	600.6	667.4	895.9	829.2	811.0	712.9	568.3	552.1	554.1
62.5°	5862.7	2958.7	609.7	656.2	847.4	784.7	803.9	694.7	549.1	545.0	554.1
65°	6002.3	2886.9	587.5	633.0	776.6	730.1	788.7	671.4	532.9	517.7	518.7
67.5°	5847.6	2550.2	544.0	581.4	696.7	660.3	764.4	641.1	510.6	492.4	488.4
70°	*4995.1*	*1873.7*	*469.2*	*499.5*	*599.6*	*578.4*	*727.0*	*601.6*	*475.2*	*462.1*	*453.0*
72.5°	4025.4	1326.6	389.3	397.4	470.2	487.4	662.3	552.1	434.8	397.4	384.2
75°	2801.9	833.2	324.6	316.5	339.8	372.1	516.7	458.1	375.1	335.7	323.6
77.5°	1205.3	427.7	253.8	249.8	226.5	257.8	396.4	382.2	314.5	269.0	261.9
80°	403.5	247.7	183.0	175.9	150.7	181.0	279.1	305.4	246.7	199.2	187.1
82.5°	202.2	143.6	116.3	105.2	101.1	114.3	164.8	190.1	170.9	137.5	116.3
85°	99.1	81.9	63.7	62.7	52.6	49.5	68.8	80.9	76.8	56.6	53.6
87.5°	36.4	32.4	20.2	16.2	10.1	7.1	4.0	4.0	3.0	3.0	3.0
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

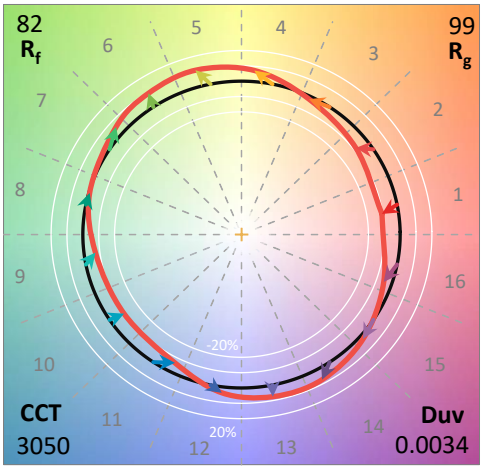
Test Information

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

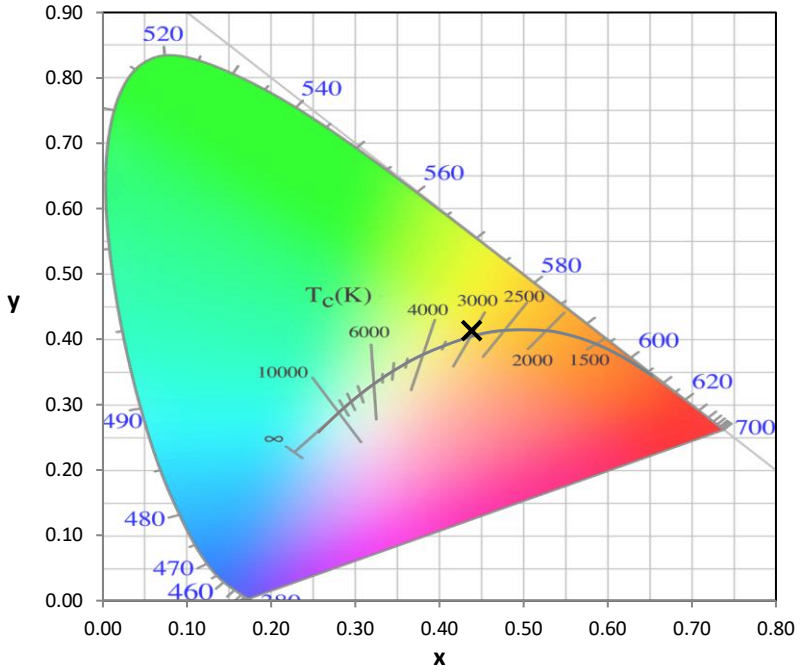
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

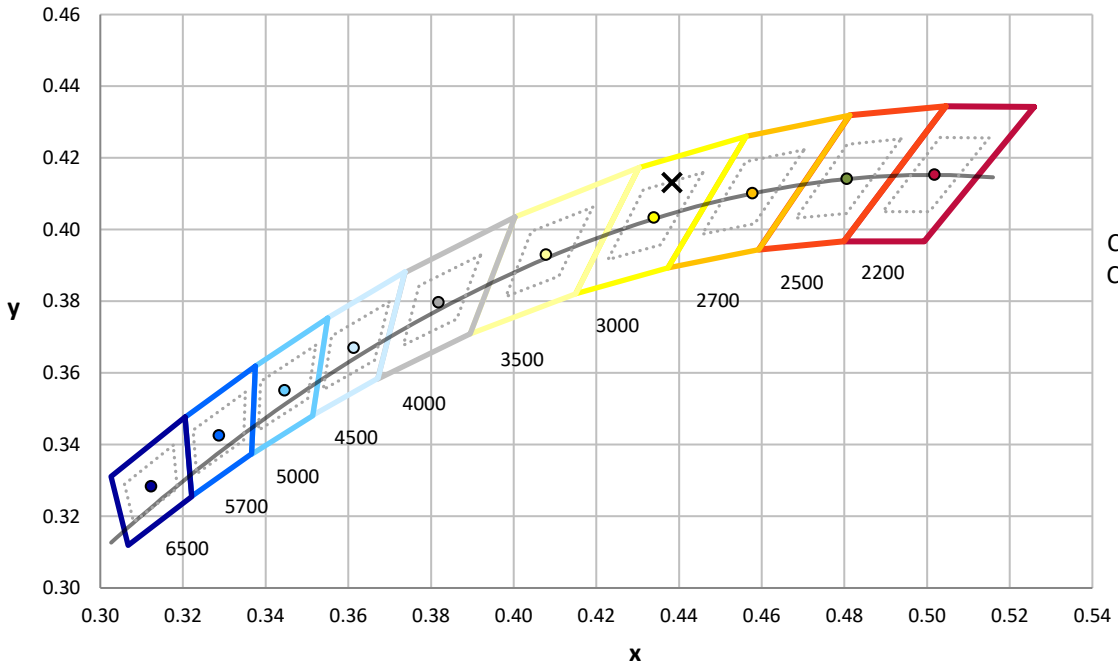
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

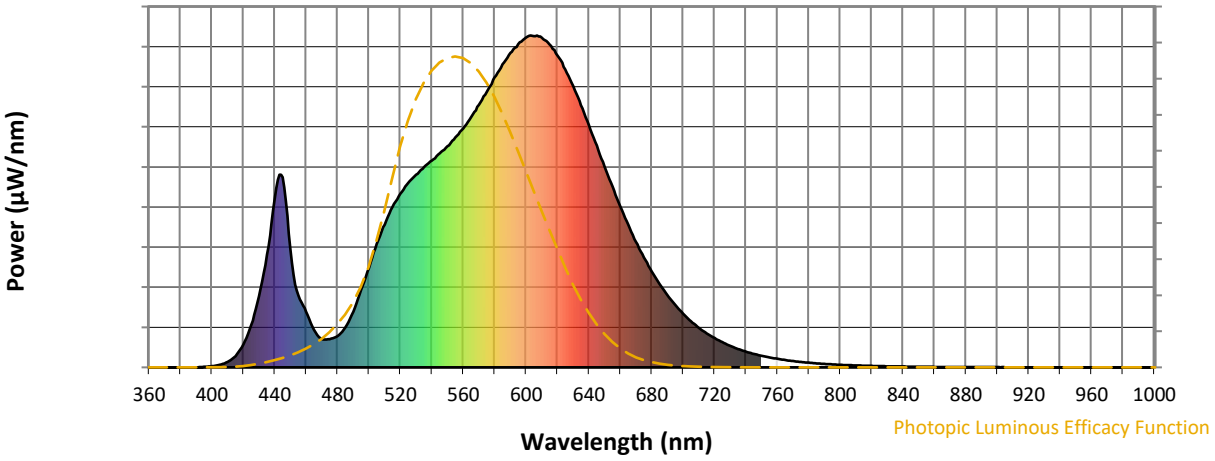


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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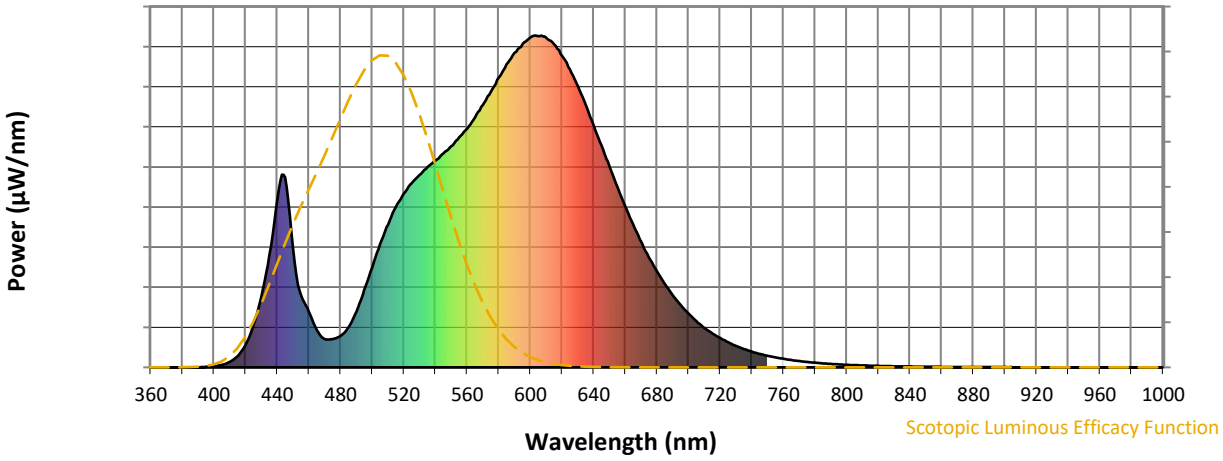
Scotopic Flux vs. Wavelength



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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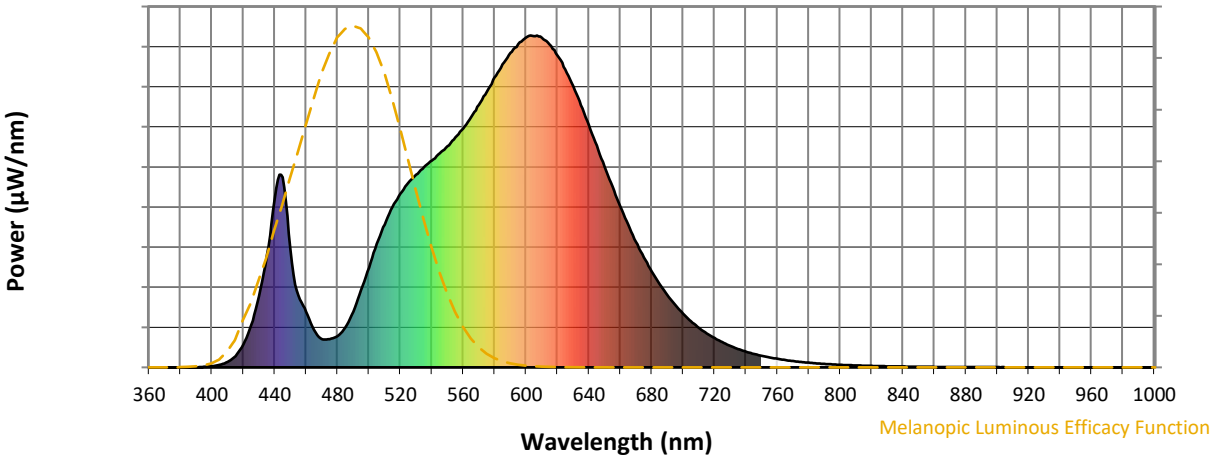
Melanopic Flux vs. Wavelength



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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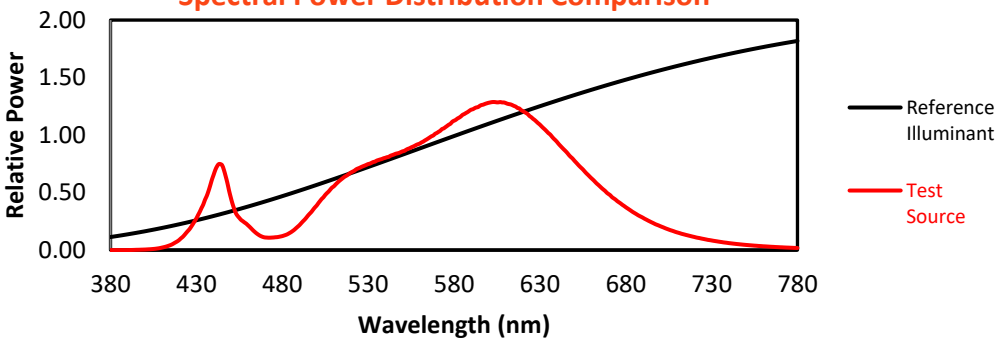
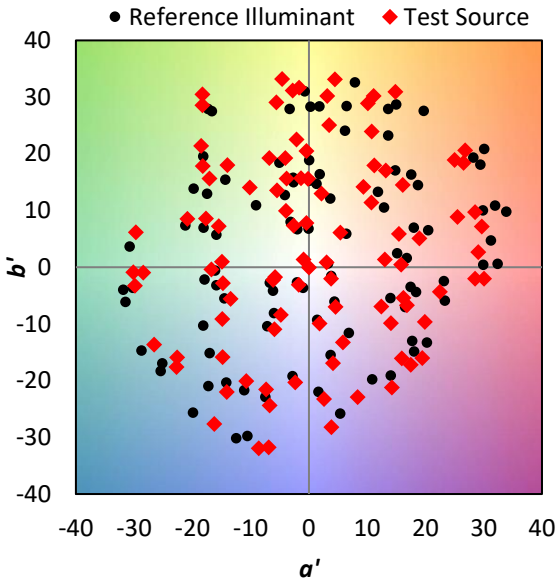
Summary

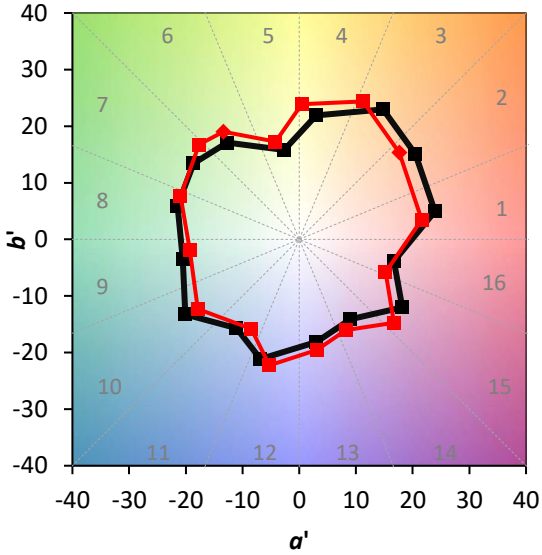
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

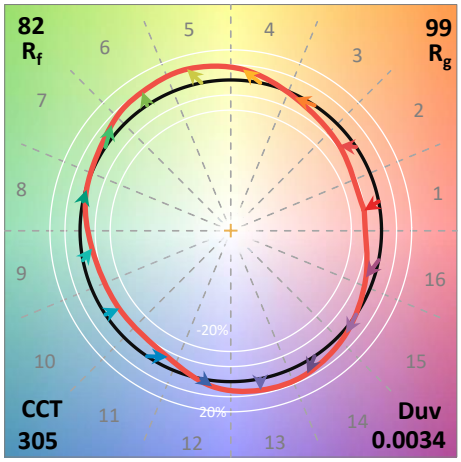
Spectral Power Distribution Comparison

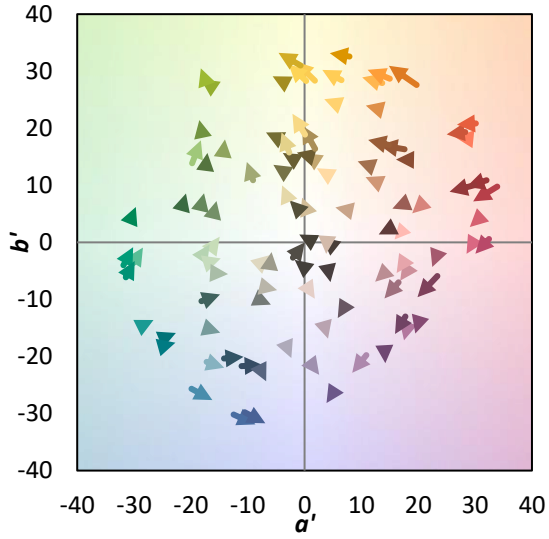


Color Vector Graphics









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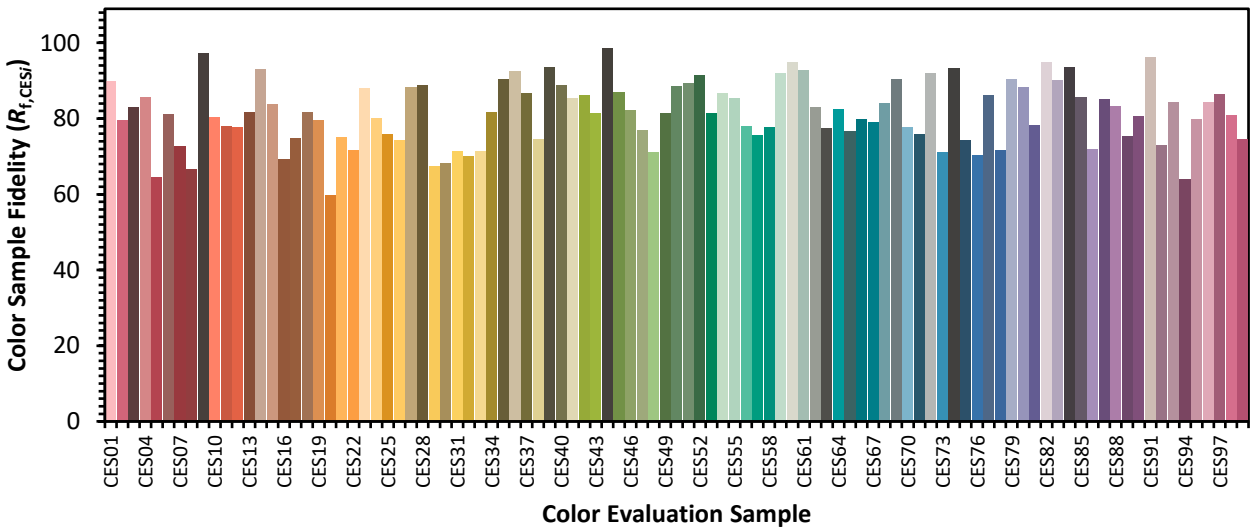
Individual Sample Fidelity Index ($R_{f,i}$)

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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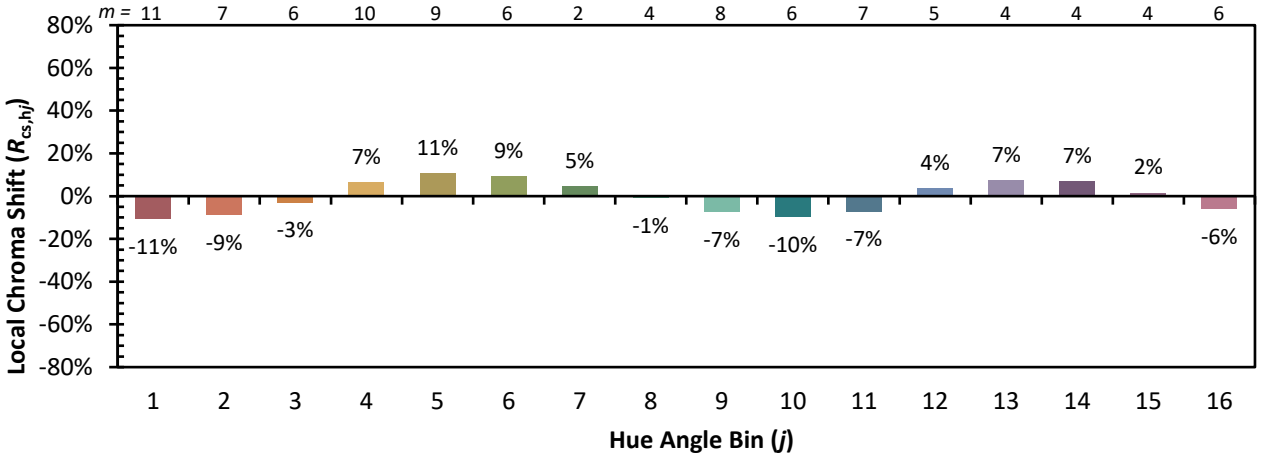
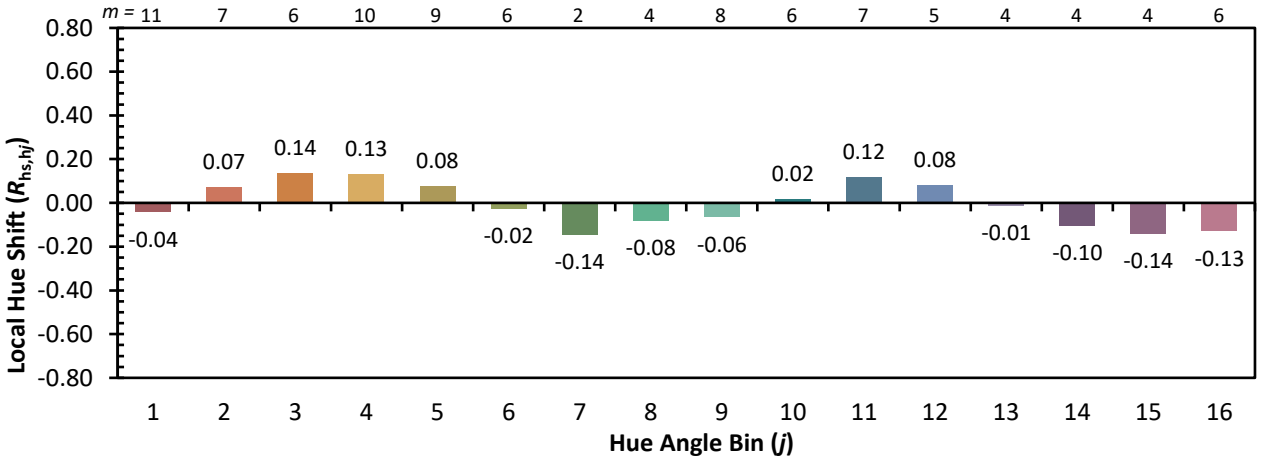
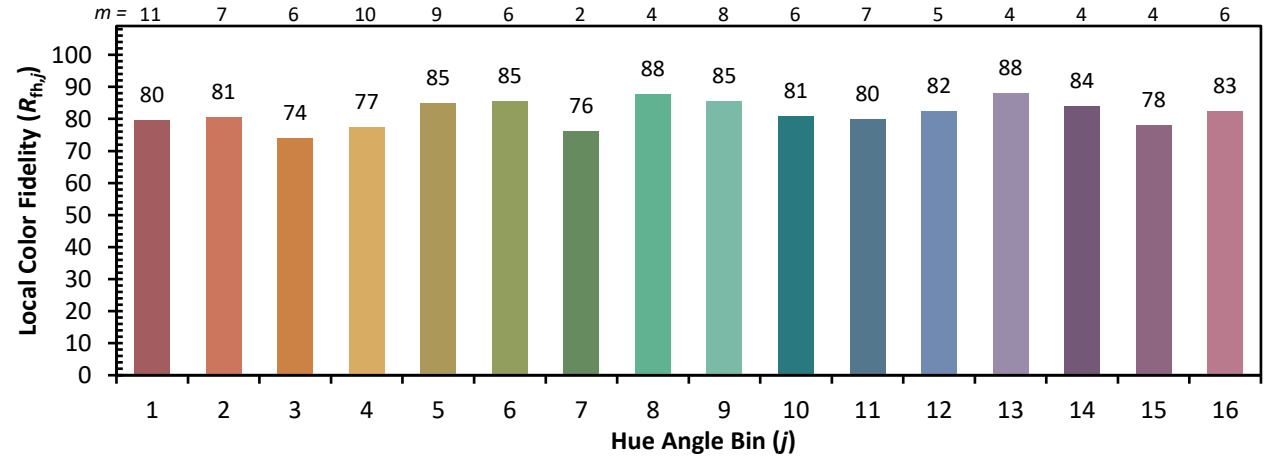
Color Rendition by Hue-Angle Bin







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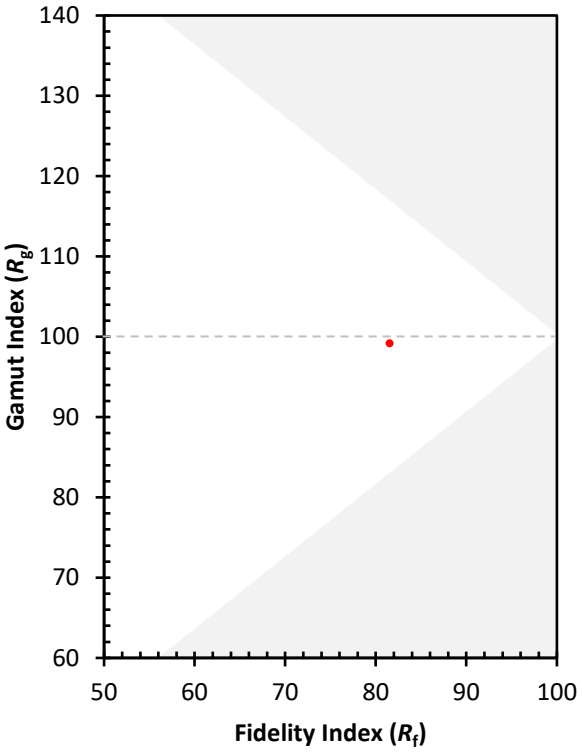
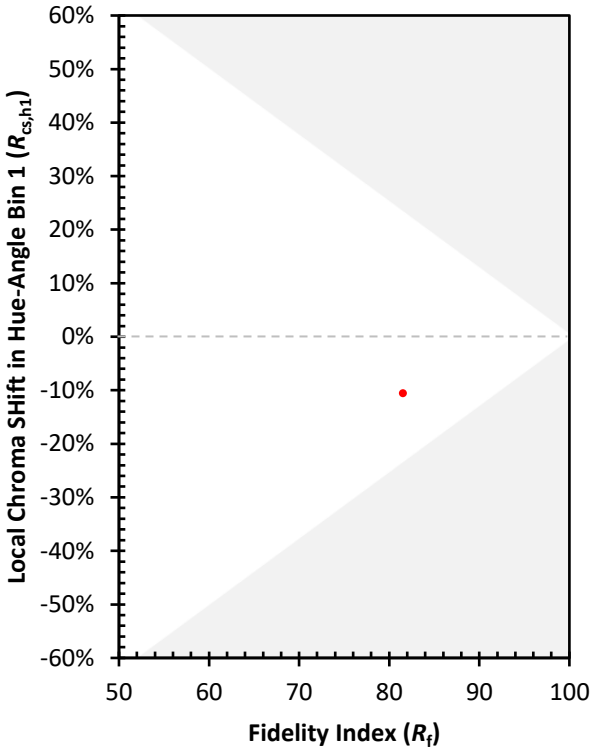
Measure Comparisons





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