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: P633526

Luminaire Tested: GWS-SA2E-830-U-SL3-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:	P633526
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2E-830-U-SL3-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11357 lumens
Efficiency:	N/A
Efficacy:	105.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G2

Input Watts (W):	108.2
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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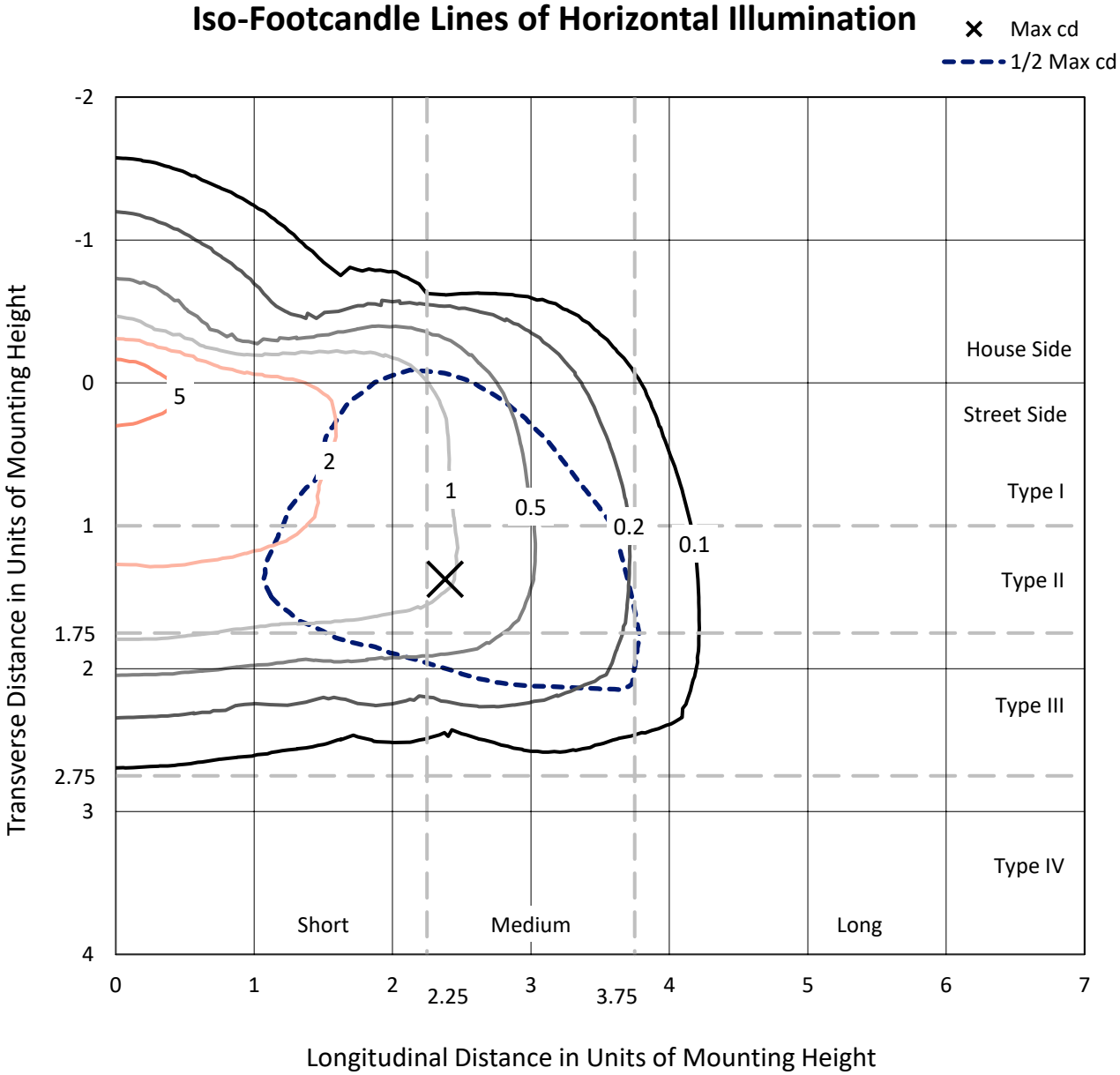
Scaled Data Report

REPORT NUMBER: P633526
CATALOG NUMBER: GWS-SA2E-830-U-SL3-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
Type III - Medium - N/A

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REPORT NUMBER: P633526
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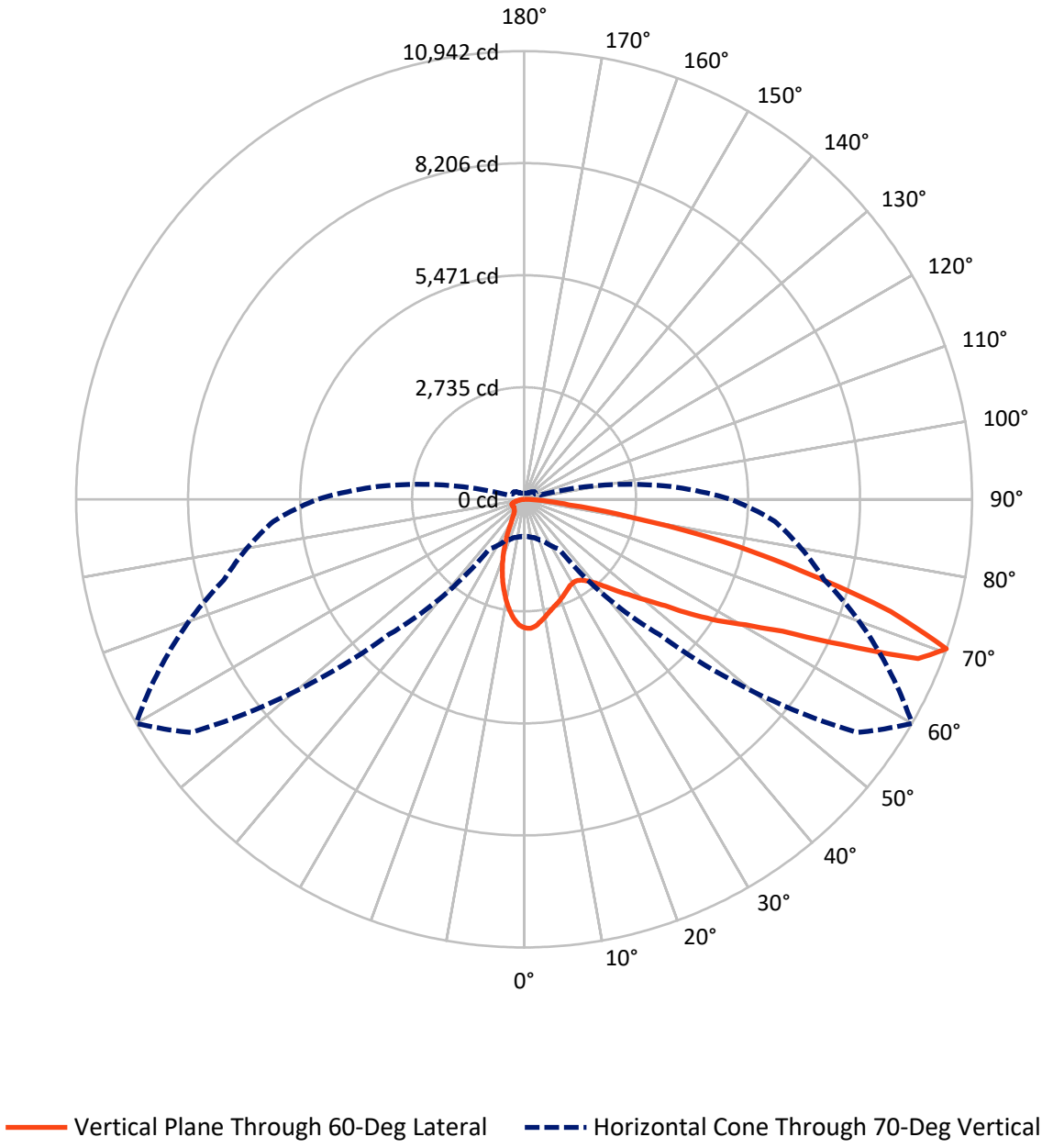
Luminous Intensity Polar Plot



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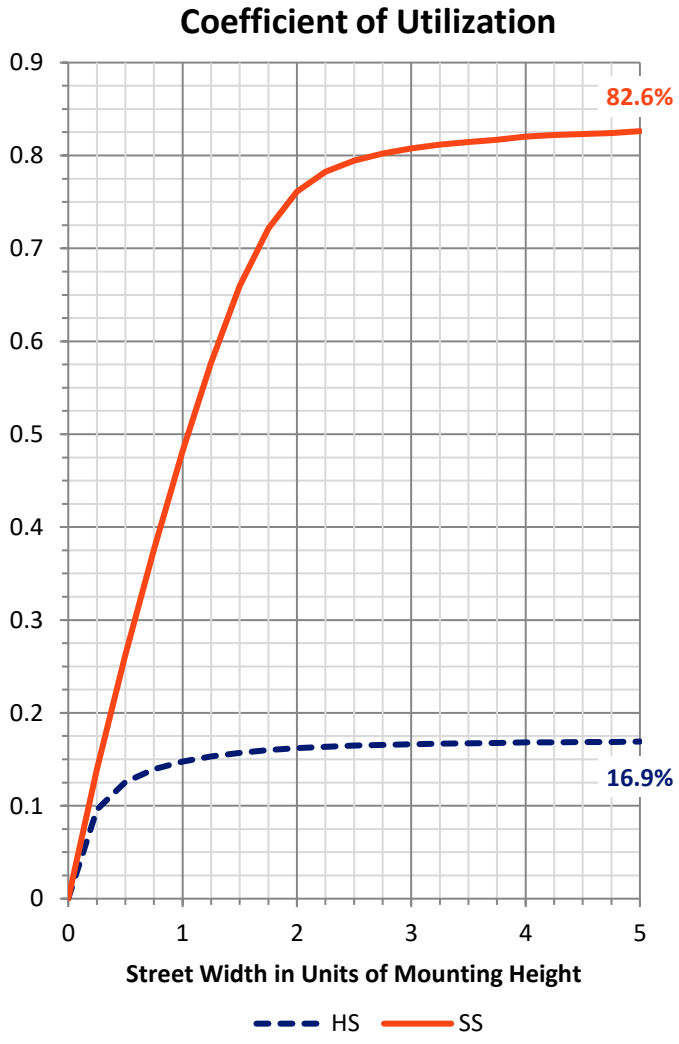
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1942.3	0.0	1942.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	9414.7	0.0	9414.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	11357.0	0.0	11357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.9	2.4
10°-20°	606.9	5.3
20°-30°	777.2	6.8
30°-40°	1021.4	9.0
40°-50°	1481.9	13.0
50°-60°	2312.1	20.4
60°-70°	3027.0	26.7
70°-80°	1673.8	14.7
80°-90°	185.8	1.6
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°	11357.0	100.0
0°-180°	11357.0	100.0



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REPORT NUMBER: P633526
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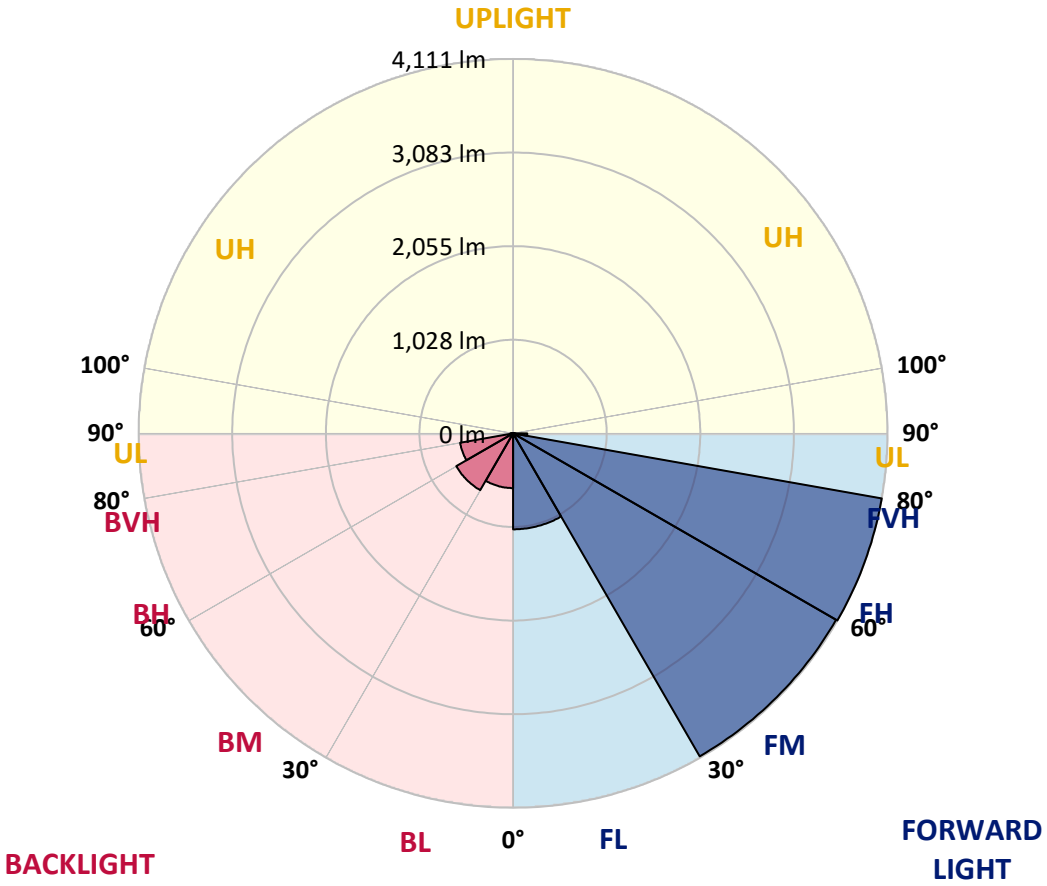
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1054.0	9.3			
FM	(30°-60°)	4095.3	36.1			
FH	(60°-80°)	4110.6	36.2			G2/5000
FVH	(80°-90°)	154.8	1.4			G2/225
BL	(0°-30°)	600.9	5.3	B2/1000		
BM	(30°-60°)	720.1	6.3	B1/1000		
BH	(60°-80°)	590.3	5.2	B2/1000		G2/1000
BVH	(80°-90°)	31.0	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 III Medium



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Scaled Data Report

REPORT NUMBER: P633526
CATALOG NUMBER: GWS-SA2E-830-U-SL3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6
2.5°	3098.6	3101.9	3111.1	3124.3	3137.6	3144.3	3160.9	3155.9	3152.6	3146.0	3137.6
5°	2961.5	2968.1	2976.4	3002.2	3031.3	3054.5	3091.9	3096.1	3097.8	3101.1	3087.8
7.5°	2787.0	2788.6	2808.6	2842.7	2880.9	2920.8	2983.1	3000.5	3015.5	3032.1	3021.3
10°	2594.2	2598.4	2613.3	2662.3	2728.0	2787.0	2870.9	2900.0	2931.6	2968.1	2953.2
12.5°	2436.3	2437.2	2461.3	2513.6	2585.1	2664.8	2769.5	2804.4	2846.0	2903.3	2890.0
15°	2310.9	2310.9	2333.3	2378.2	2460.4	2554.3	2679.0	2723.8	2780.3	2857.6	2834.3
17.5°	2211.1	2212.0	2226.1	2273.5	2346.6	2450.5	2598.4	2659.0	2721.3	2823.5	2788.6
20°	2158.8	2154.6	2157.1	2186.2	2248.5	2349.1	2517.8	2588.4	2672.3	2800.3	2747.1
22.5°	2156.3	2148.8	2138.0	2140.5	2177.1	2260.2	2431.3	2516.9	2622.5	2781.2	2704.7
25°	2198.7	2190.4	2171.3	2149.7	2146.3	2196.2	2349.9	2447.1	2570.9	2772.9	2664.0
27.5°	2270.1	2264.3	2239.4	2207.0	2172.9	2171.3	2288.4	2389.8	2533.5	2781.2	2634.9
30°	2364.9	2354.9	2339.1	2297.6	2246.0	2192.9	2264.3	2359.0	2508.6	2807.8	2622.5
32.5°	2472.1	2466.2	2451.3	2409.7	2354.9	2270.1	2283.4	2365.7	2508.6	2854.3	2625.0
35°	2585.9	2585.1	2585.1	2557.6	2497.0	2391.5	2359.0	2422.2	2546.8	2929.1	2651.5
37.5°	2696.4	2695.6	2722.2	2732.1	2663.2	2549.3	2487.8	2535.2	2630.8	3039.6	2717.2
40°	2786.2	2789.5	2847.6	2897.5	2859.3	2753.7	2667.3	2691.4	2767.0	3196.6	2831.9
42.5°	2876.7	2885.9	2973.1	3061.2	3076.2	2984.7	2897.5	2911.6	2962.3	3404.4	3003.0
45°	2975.6	2979.8	3101.9	3224.9	3297.2	3243.2	3171.7	3190.8	3202.5	3661.1	3258.1
47.5°	3071.2	3082.0	3239.8	3408.5	3545.6	3540.7	3500.8	3494.9	3497.4	3973.6	3559.8
50°	3201.6	3217.4	3402.7	3606.3	3807.4	3899.6	3911.3	3867.2	3848.9	4320.9	3935.3
52.5°	3449.2	3449.2	3615.4	3815.7	4085.7	4314.3	4392.4	4320.1	4261.9	4688.2	4334.2
55°	3759.2	3772.5	3904.6	4066.6	4409.0	4750.5	5014.7	4935.0	4770.4	5087.9	4752.2
57.5°	3897.1	3913.7	4123.1	4374.9	4831.9	5246.6	5613.0	5584.8	5344.6	5503.3	5185.9
60°	3647.8	3682.7	3971.1	4393.2	5215.0	6046.8	6305.2	6222.9	5879.8	5939.6	5656.2
62.5°	3042.9	3081.1	3401.1	3990.2	5161.8	6911.8	7396.2	7092.9	6547.8	6490.5	6282.8
65°	1815.6	1813.9	2198.7	2979.8	4506.2	7151.9	9122.9	8557.1	7579.9	7246.7	6927.6
67.5°	1154.2	1151.7	1232.3	1578.8	2998.9	6563.6	10233.1	10380.1	8981.7	7802.6	6980.8
70°	910.7	909.9	968.0	1125.9	1483.2	4670.7	9924.0	10941.9	9828.4	7590.7	6146.5
72.5°	663.9	665.6	755.3	943.1	1144.2	2344.9	8036.1	9362.2	9039.8	6700.7	4989.8
75°	477.0	479.5	533.5	722.1	1055.3	1282.1	5343.8	7039.8	6877.7	5371.2	3432.6
77.5°	303.3	306.6	354.0	506.0	852.5	1035.4	3239.8	4969.9	4576.0	3026.3	1220.7
80°	185.3	196.1	236.0	377.2	681.4	776.9	1619.5	2618.3	2291.7	830.1	410.5
82.5°	95.6	103.9	142.1	233.5	469.5	682.2	916.5	1100.2	709.6	347.3	218.5
85°	29.9	34.9	49.9	94.7	223.5	423.0	606.6	546.8	325.7	163.7	101.4
87.5°	7.5	7.5	8.3	8.3	9.1	19.1	117.2	123.8	86.4	51.5	41.5
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: P633526
CATALOG NUMBER: GWS-SA2E-830-U-SL3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6
2.5°	3121.0	3101.1	3092.8	3091.9	3071.2	3041.3	3021.3	3007.2	2998.9	2997.2	2997.2
5°	3065.4	3039.6	3005.5	2979.8	2924.1	2867.6	2820.2	2793.6	2762.9	2758.7	2757.9
7.5°	2991.4	2954.0	2889.2	2816.9	2719.7	2625.8	2546.0	2492.0	2438.0	2428.0	2424.7
10°	2911.6	2860.9	2750.4	2623.3	2477.9	2337.4	2215.3	2119.7	2056.6	2011.7	2003.4
12.5°	2832.7	2765.4	2603.3	2413.9	2214.5	2022.5	1838.9	1682.7	1569.7	1504.0	1492.4
15°	2758.7	2664.8	2443.0	2201.2	1941.9	1679.3	1419.3	1216.5	1057.8	1001.3	988.0
17.5°	2691.4	2574.3	2287.6	1981.0	1657.7	1314.6	1018.7	838.4	745.4	717.1	710.5
20°	2624.1	2481.2	2129.7	1749.1	1356.1	971.4	744.5	659.8	624.9	614.1	610.7
22.5°	2551.8	2379.0	1957.7	1520.6	1051.1	727.1	609.1	571.7	560.9	561.7	560.9
25°	2479.5	2275.1	1777.4	1272.2	782.7	590.0	531.8	517.7	520.2	527.6	529.3
27.5°	2419.7	2182.9	1600.4	999.6	611.6	507.7	480.3	479.5	488.6	498.6	500.2
30°	2376.5	2100.6	1425.9	768.6	503.6	451.2	440.4	445.4	456.2	463.7	466.2
32.5°	2345.8	2030.0	1239.8	604.1	441.2	411.3	406.3	411.3	418.0	425.4	427.1
35°	2335.0	1978.5	1057.0	492.7	398.9	382.2	378.9	381.4	384.7	388.9	390.5
37.5°	2359.0	1952.7	865.8	428.8	373.1	363.1	358.1	356.5	357.3	359.0	359.8
40°	2430.5	1964.4	709.6	391.4	356.5	347.3	339.0	335.7	334.9	336.5	335.7
42.5°	2553.5	2013.4	596.6	369.8	343.2	329.9	320.7	317.4	317.4	321.6	321.6
45°	2733.8	2109.8	515.2	354.0	331.5	314.9	305.0	303.3	306.6	313.3	314.1
47.5°	2998.0	2251.0	466.2	342.3	320.7	301.6	291.7	290.8	297.5	308.3	309.1
50°	3311.3	2454.6	439.6	334.0	313.3	290.8	280.9	281.7	289.2	300.8	303.3
52.5°	3688.6	2732.1	441.2	330.7	309.1	284.2	274.2	272.5	280.0	291.7	294.2
55°	4078.3	3069.5	473.6	331.5	303.3	280.9	267.6	261.7	268.4	276.7	277.5
57.5°	4507.0	3450.1	554.2	329.9	295.8	277.5	261.7	248.5	252.6	257.6	260.1
60°	4990.6	3898.0	727.9	333.2	292.5	270.1	250.1	232.7	231.8	235.2	236.0
62.5°	5637.1	4507.0	923.2	339.0	300.0	260.9	232.7	214.4	211.1	212.7	213.6
65°	6131.5	4797.9	861.7	334.0	315.8	254.3	216.0	196.9	190.3	188.6	188.6
67.5°	5930.4	4413.1	599.9	320.7	323.2	255.1	202.8	178.7	170.3	166.2	165.4
70°	*5046.3*	*3584.7*	*417.1*	*307.4*	*314.9*	*253.4*	*188.6*	*163.7*	*152.9*	*147.1*	*146.2*
72.5°	3986.9	2737.1	337.4	280.9	285.8	228.5	167.9	147.1	137.9	130.5	130.5
75°	2566.0	1670.2	281.7	250.1	233.5	177.8	145.4	131.3	122.1	114.7	114.7
77.5°	863.4	619.9	218.5	211.9	174.5	133.8	122.1	113.0	105.5	98.9	98.1
80°	350.7	294.2	160.4	160.4	122.1	102.2	95.6	91.4	86.4	78.1	78.1
82.5°	203.6	178.7	112.2	97.2	81.4	70.6	66.5	62.3	62.3	56.5	56.5
85°	98.1	98.9	67.3	59.8	46.5	40.7	39.1	36.6	35.7	32.4	31.6
87.5°	53.2	54.0	34.1	26.6	18.3	15.8	13.3	12.5	11.6	10.8	10.8
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

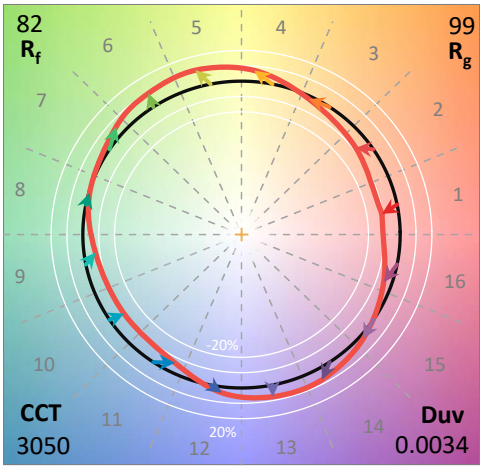
Test Information

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

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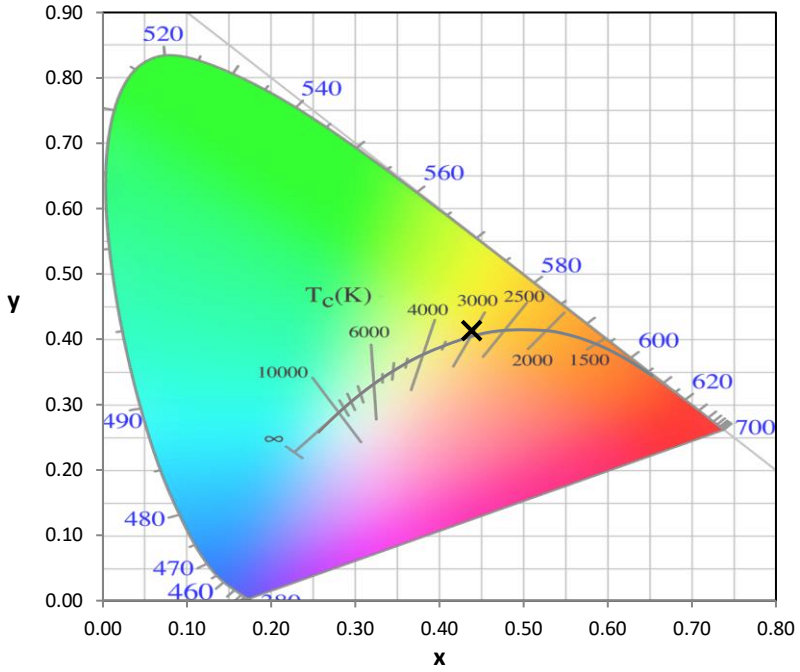
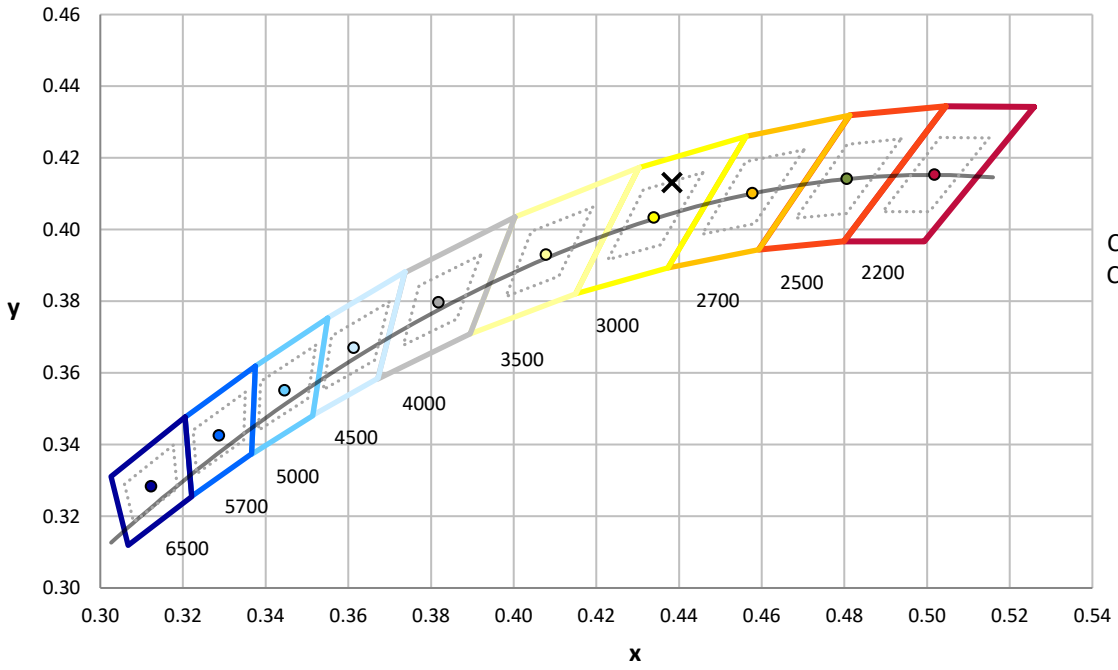
CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

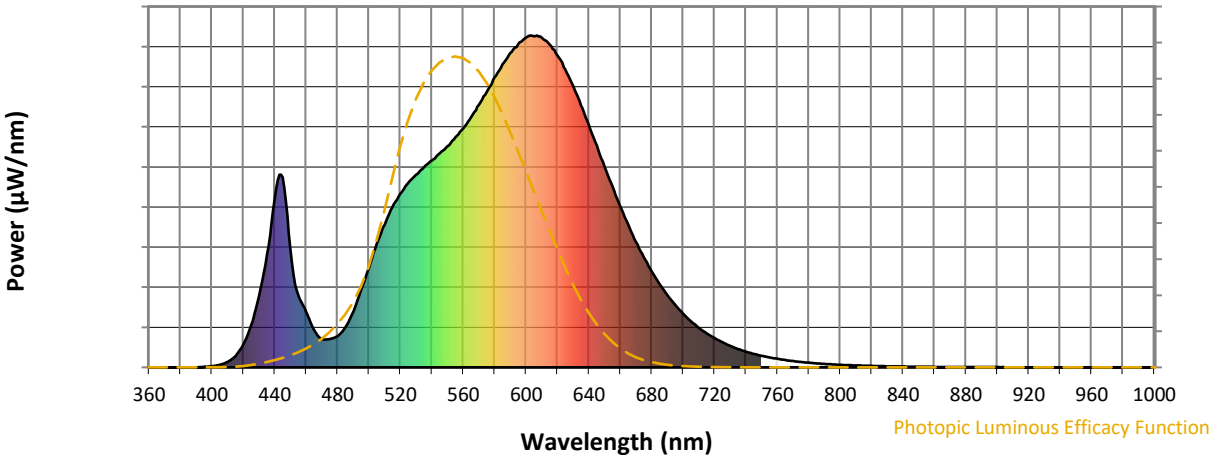


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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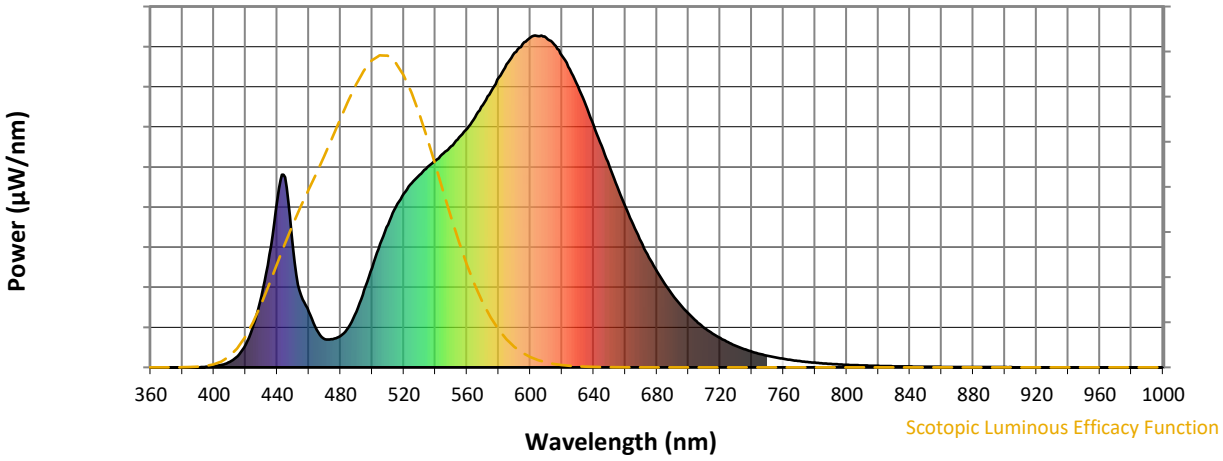
Scotopic Flux vs. Wavelength



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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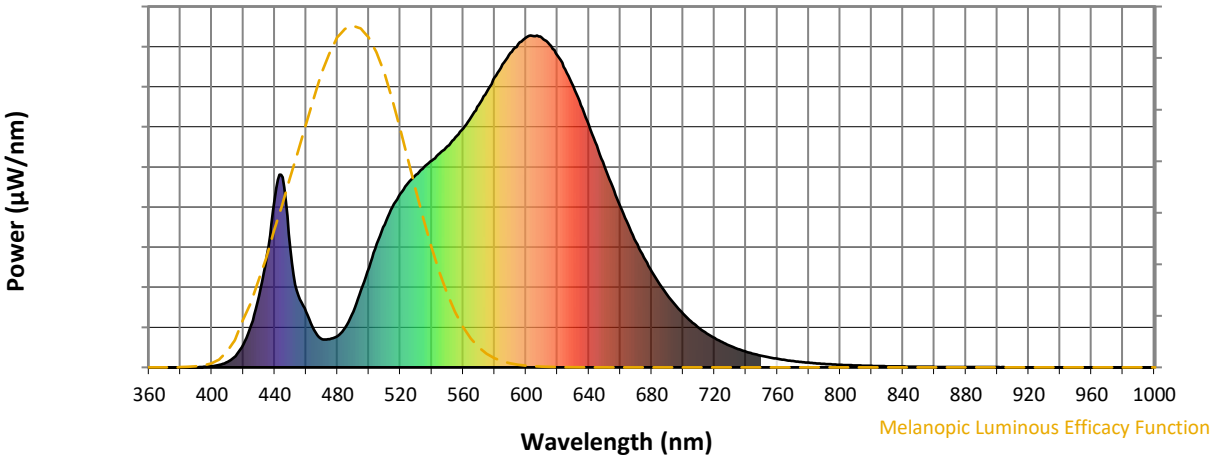
Melanopic Flux vs. Wavelength



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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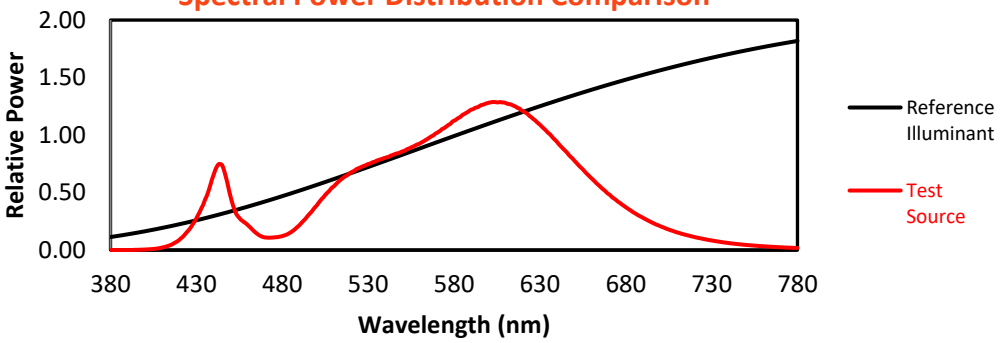
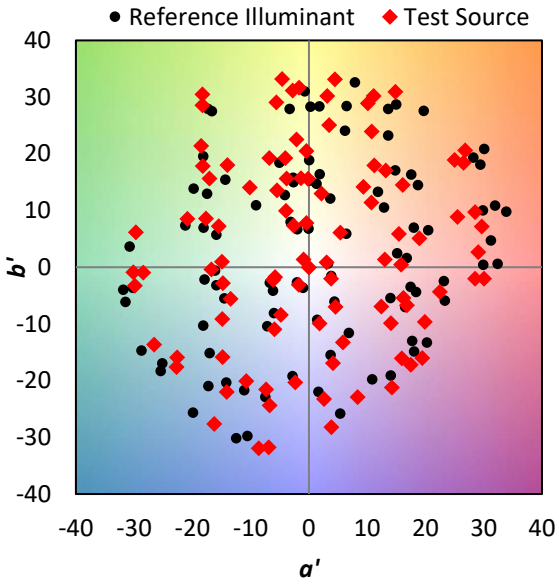
Summary

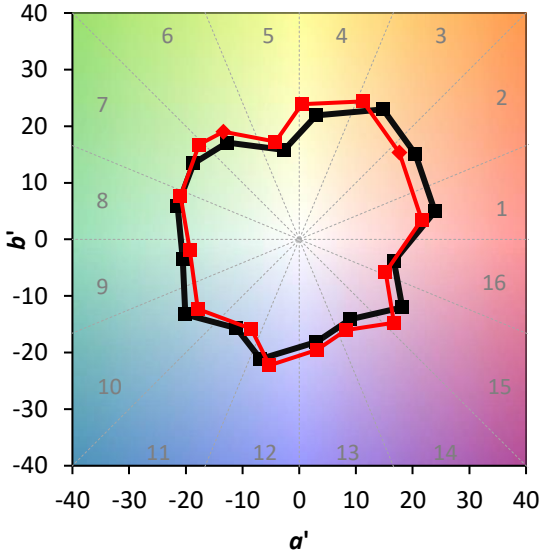
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

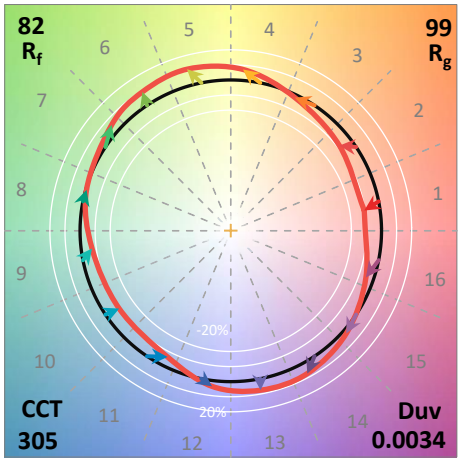
Spectral Power Distribution Comparison

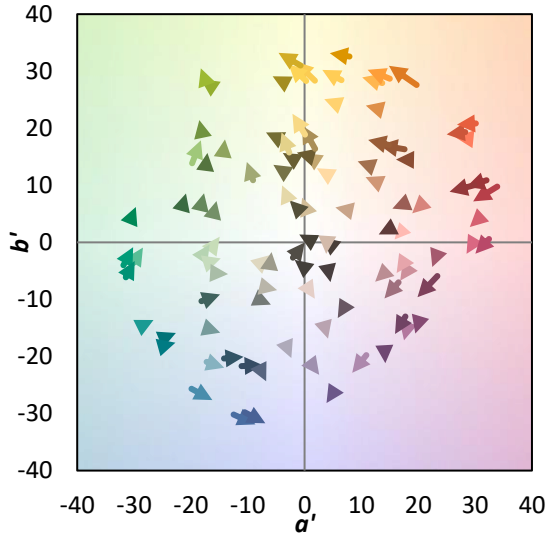


Color Vector Graphics









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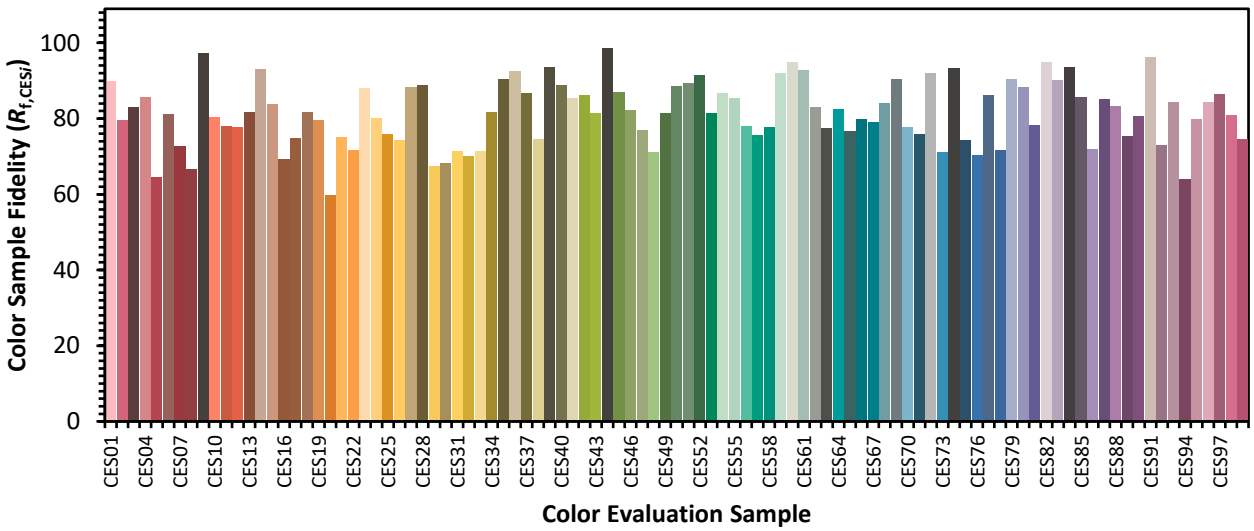
Individual Sample Fidelity Index ($R_{f,i}$)

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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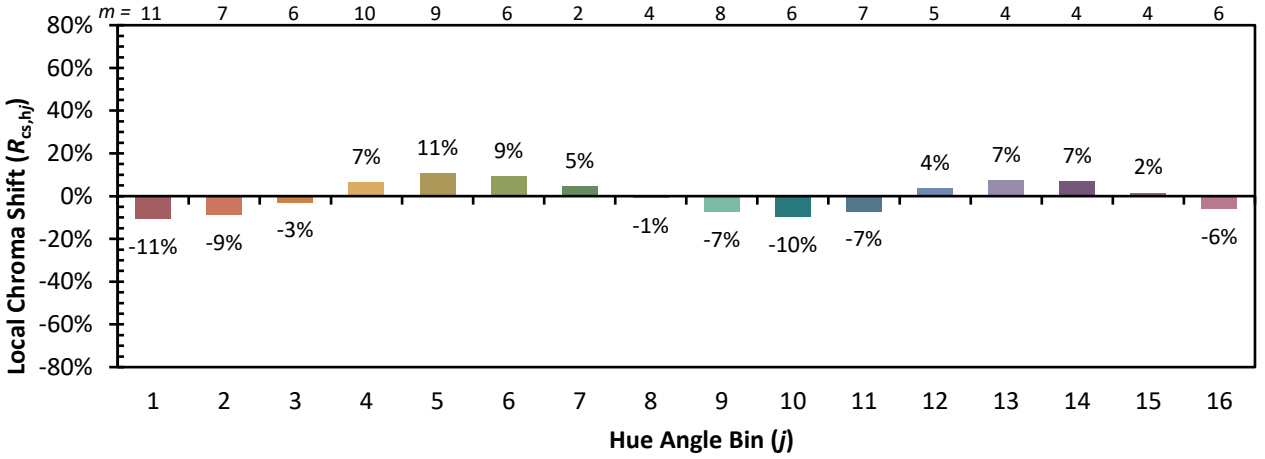
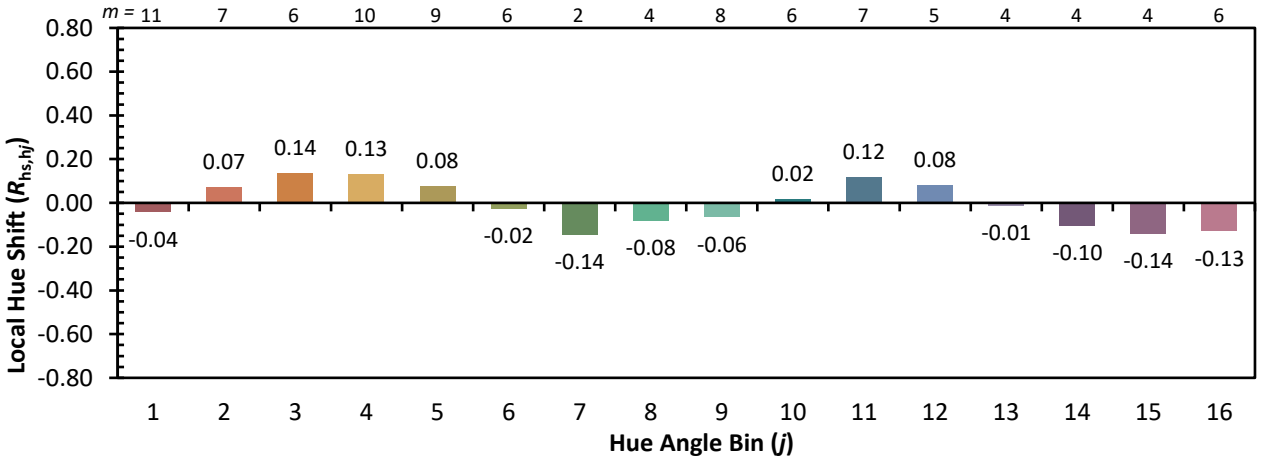
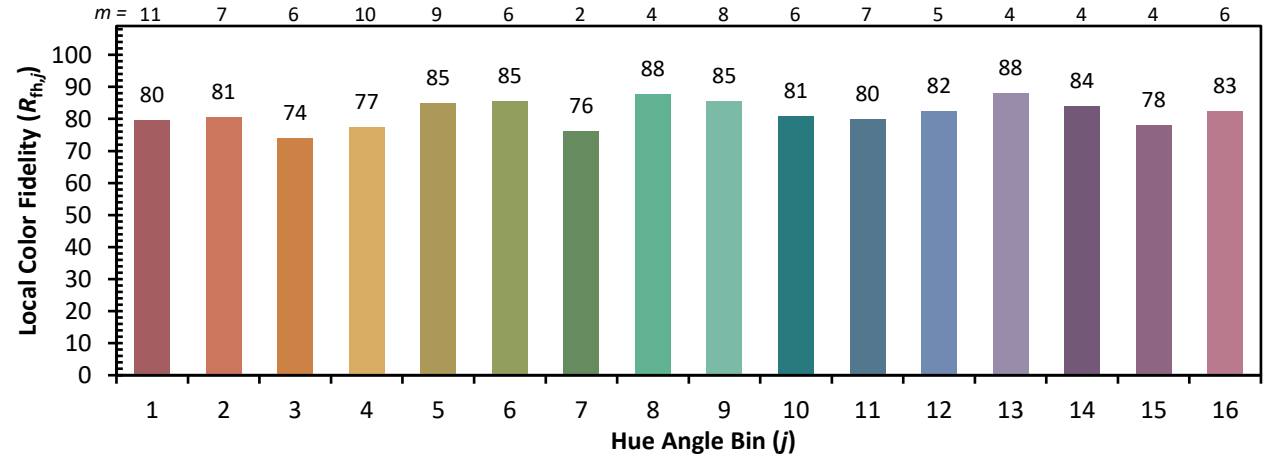
Color Rendition by Hue-Angle Bin







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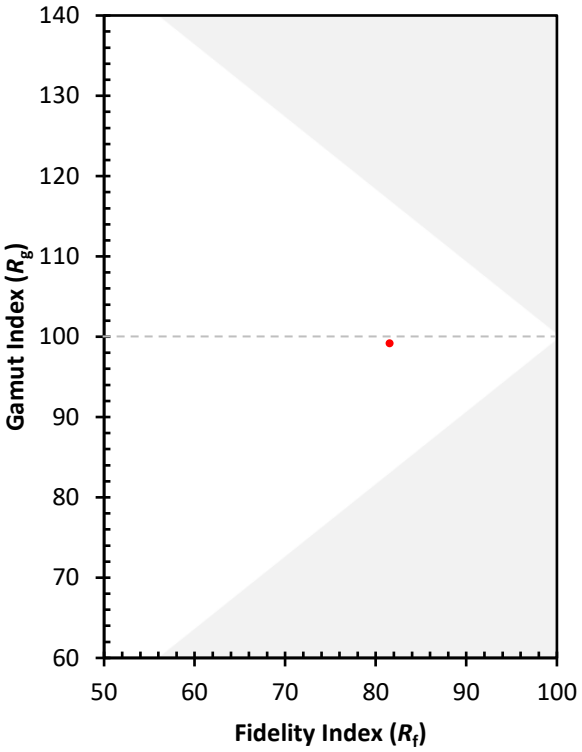
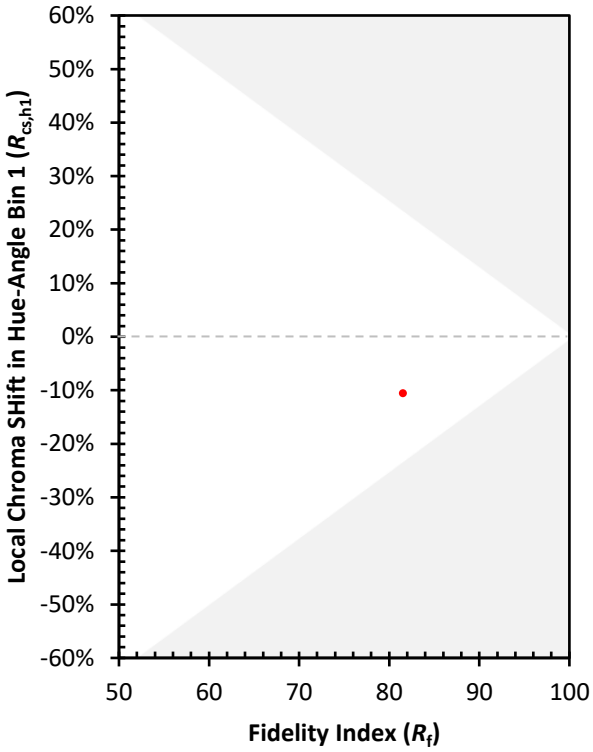
Measure Comparisons





(END OF REPORT)