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: P637487

Luminaire Tested: GWS-SA4C-830-U-SL4-W-HSS

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:	P637487
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4C-830-U-SL4-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12149.9 lumens
Efficiency:	N/A
Efficacy:	94.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	128.5
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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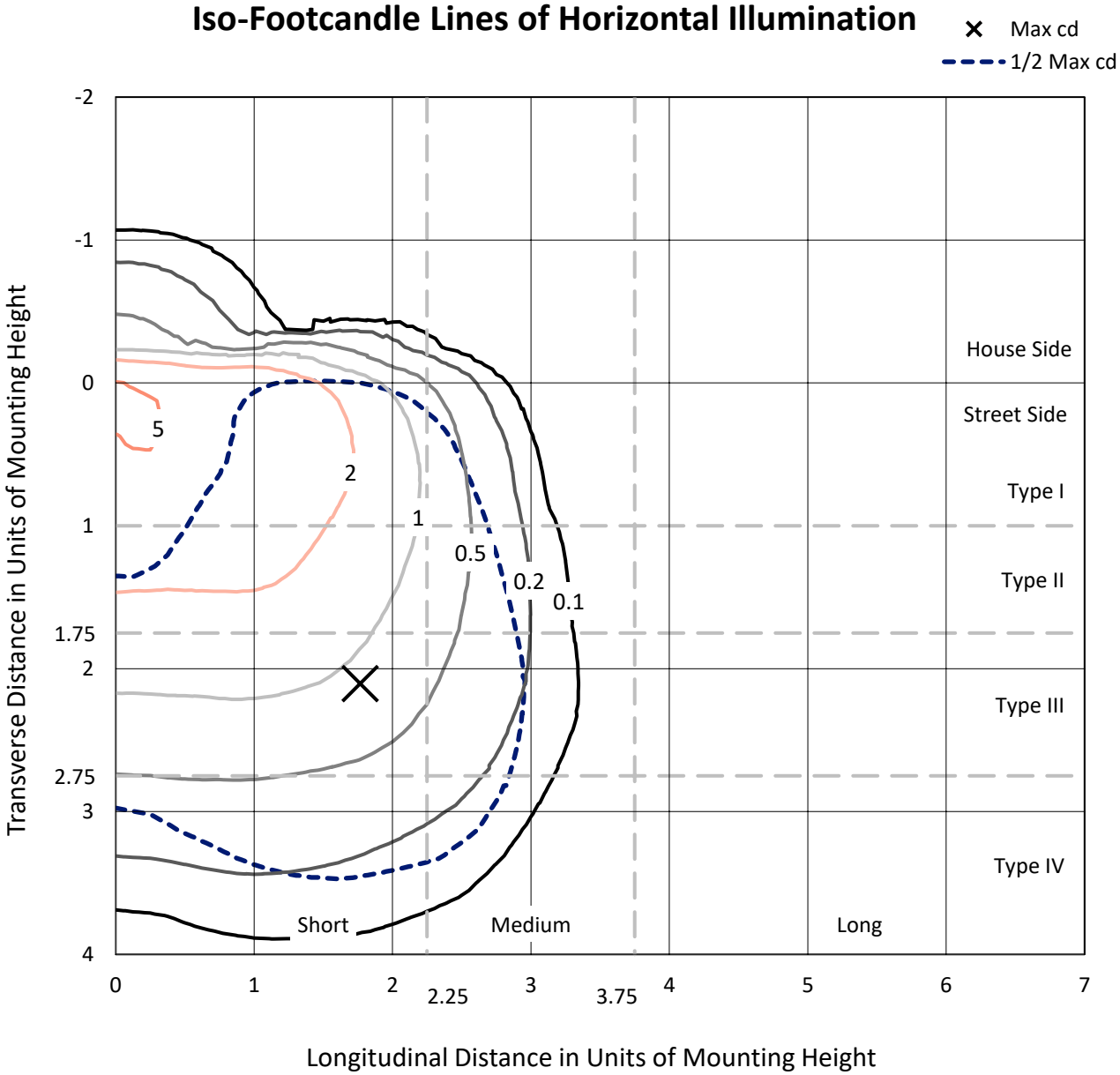
Scaled Data Report

REPORT NUMBER: P637487
CATALOG NUMBER: GWS-SA4C-830-U-SL4-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
Type IV - Short - N/A

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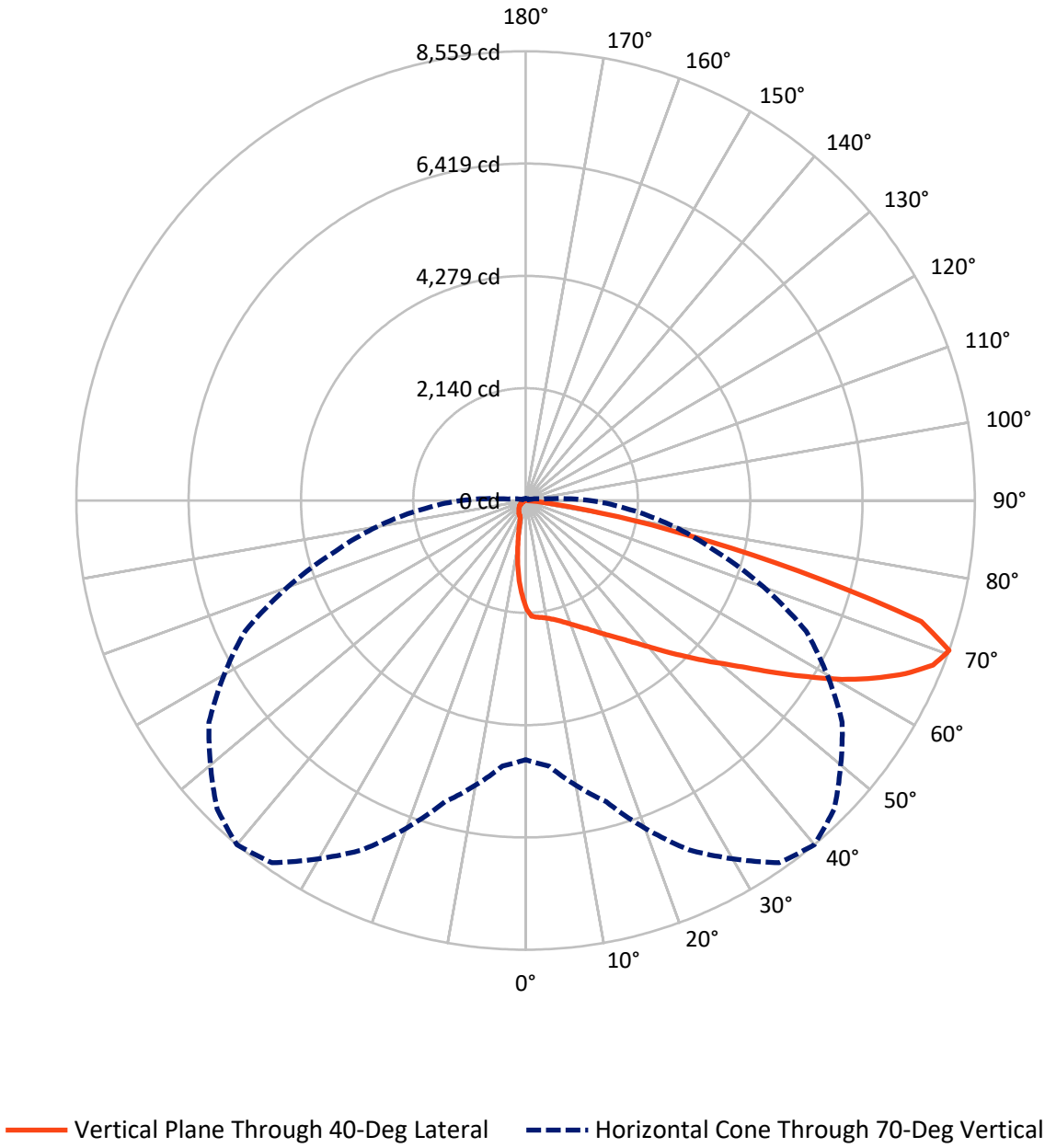
Luminous Intensity Polar Plot



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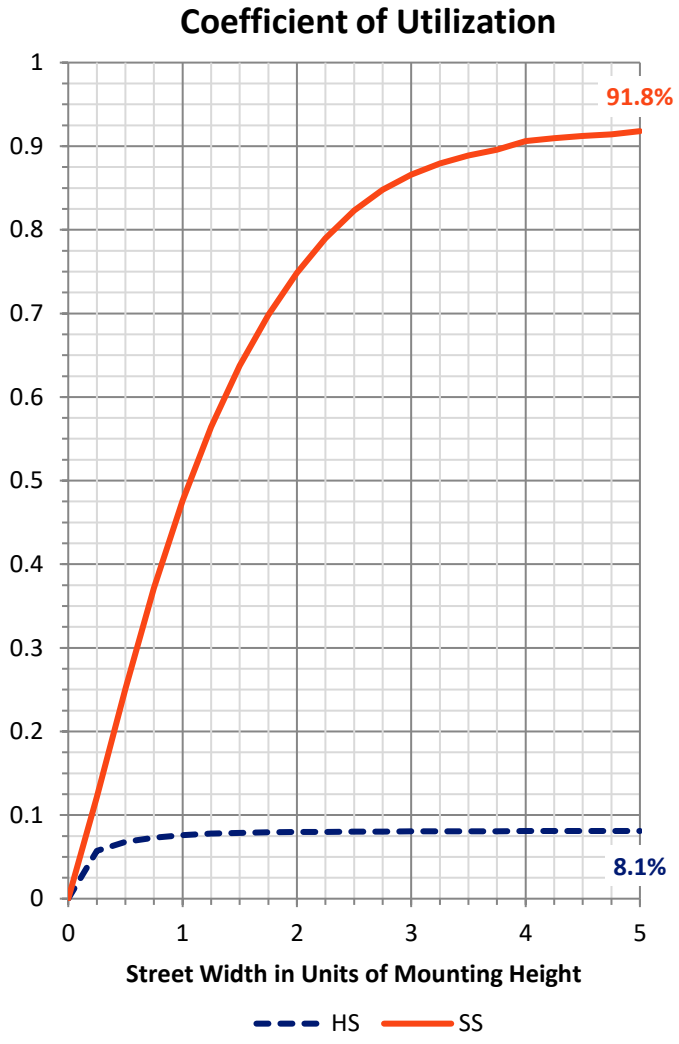
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	993.6	0.0	993.6
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	11156.3	0.0	11156.3
	% Fixture	91.8	0.0	91.8
Total	Lumens	12149.9	0.0	12149.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	1.4
10°-20°	441.9	3.6
20°-30°	739.7	6.1
30°-40°	1161.8	9.6
40°-50°	1837.6	15.1
50°-60°	2680.6	22.1
60°-70°	3323.0	27.4
70°-80°	1681.3	13.8
80°-90°	109.7	0.9
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°	12149.9	100.0
0°-180°	12149.9	100.0



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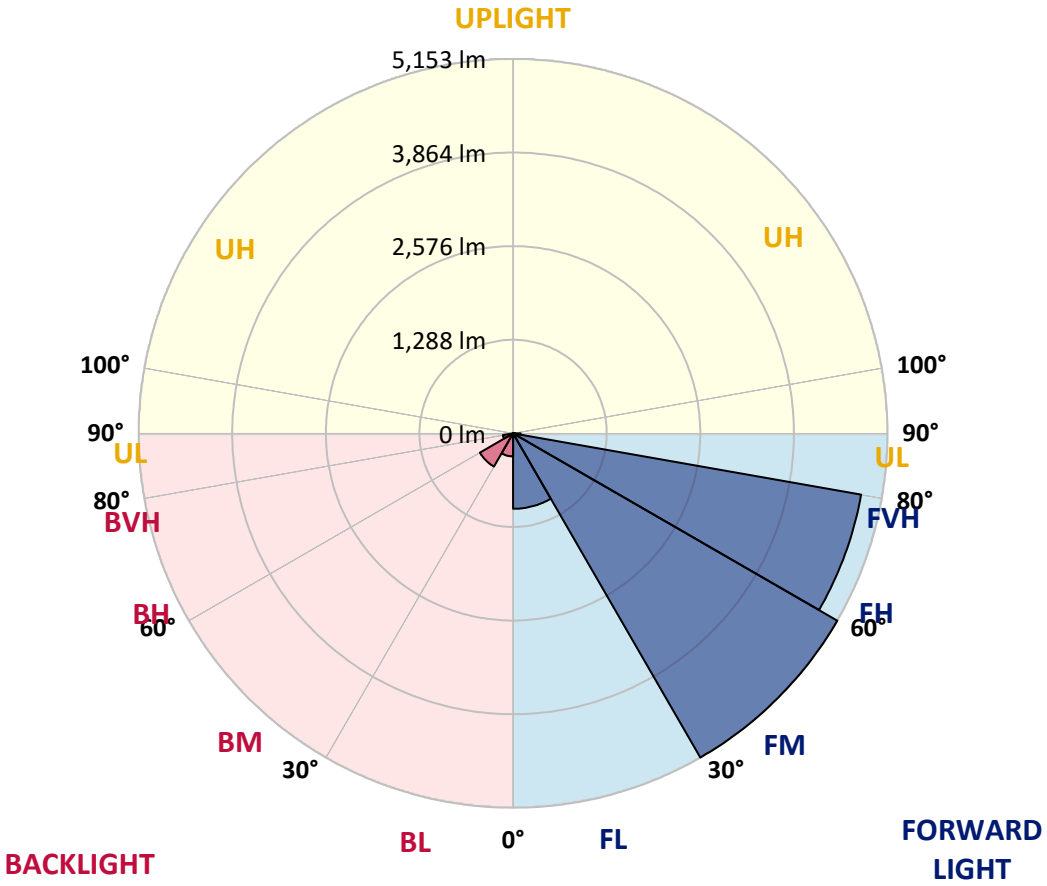
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1038.6	8.5			
FM	(30°-60°)	5152.6	42.4			
FH	(60°-80°)	4862.6	40.0			G2/5000
FVH	(80°-90°)	102.5	0.8			G2/225
BL	(0°-30°)	317.3	2.6	B1/500		
BM	(30°-60°)	527.4	4.3	B1/1000		
BH	(60°-80°)	141.7	1.2	B1/500		G1/500
BVH	(80°-90°)	7.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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Scaled Data Report

REPORT NUMBER: P637487
CATALOG NUMBER: GWS-SA4C-830-U-SL4-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7
2.5°	2216.5	2224.2	2223.1	2226.4	2218.7	2206.5	2204.3	2187.7	2157.9	2120.3	2078.3
5°	2261.8	2270.6	2264.0	2260.7	2246.3	2233.0	2229.7	2212.0	2177.8	2126.9	2054.0
7.5°	2300.5	2302.7	2298.3	2290.5	2269.5	2251.8	2239.7	2215.4	2174.4	2123.6	2039.6
10°	2307.1	2306.0	2308.2	2309.3	2296.1	2280.6	2270.6	2237.5	2185.5	2131.3	2040.7
12.5°	2299.4	2299.4	2313.7	2330.3	2330.3	2322.6	2312.6	2282.8	2222.0	2157.9	2062.8
15°	2309.3	2312.6	2340.3	2371.2	2381.2	2373.4	2369.0	2338.1	2275.0	2204.3	2102.6
17.5°	2344.7	2348.0	2392.2	2438.7	2450.8	2442.0	2433.1	2402.2	2334.7	2257.4	2147.9
20°	2396.6	2405.5	2461.9	2521.6	2532.6	2521.6	2503.9	2460.8	2393.3	2314.8	2191.0
22.5°	2491.7	2497.2	2558.0	2621.1	2626.6	2608.9	2582.4	2522.7	2451.9	2375.6	2239.7
25°	2617.7	2625.5	2686.3	2747.1	2732.7	2706.2	2669.7	2602.3	2521.6	2447.5	2301.6
27.5°	2768.1	2776.9	2836.6	2889.7	2852.1	2821.1	2780.2	2696.2	2614.4	2547.0	2381.2
30°	2930.6	2938.3	2991.4	3038.9	2989.2	2952.7	2904.1	2817.8	2734.9	2684.1	2493.9
32.5°	3087.6	3086.5	3137.3	3176.0	3125.1	3096.4	3052.2	2964.9	2898.5	2876.4	2662.0
35°	3233.5	3233.5	3275.5	3314.2	3277.7	3262.2	3221.3	3151.7	3114.1	3140.6	2886.4
37.5°	3380.5	3372.8	3412.6	3455.7	3452.4	3453.5	3430.3	3397.1	3399.3	3493.3	3194.8
40°	3502.1	3498.8	3545.2	3601.6	3645.8	3681.2	3666.8	3679.0	3748.6	3924.4	3589.4
42.5°	3599.4	3607.1	3666.8	3756.4	3868.0	3939.9	3949.8	3999.6	4178.7	4450.6	4034.9
45°	3711.0	3712.2	3795.1	3932.1	4110.1	4224.0	4263.8	4392.0	4646.3	4996.7	4523.6
47.5°	3848.1	3834.9	3927.7	4120.1	4377.6	4545.7	4616.4	4776.7	5170.3	5529.5	4921.5
50°	3999.6	3975.3	4080.3	4342.3	4677.2	4887.3	5031.0	5265.3	5689.8	5967.3	5217.8
52.5°	4175.3	4152.1	4271.5	4597.6	5036.5	5291.9	5476.5	5713.0	6135.3	6301.2	5394.7
55°	4398.6	4375.4	4501.5	4903.8	5461.0	5792.6	5986.1	6185.1	6549.9	6547.7	5522.9
57.5°	4646.3	4614.2	4788.9	5290.8	5990.5	6335.4	6532.2	6629.5	6864.9	6738.9	5609.1
60°	4930.4	4901.6	5143.7	5751.7	6601.8	6921.3	7045.1	7005.3	7123.6	6851.7	5579.3
62.5°	5186.8	5173.6	5474.3	6240.4	7184.4	7454.2	7488.4	7314.9	7313.8	6853.9	5378.1
65°	5453.3	5478.7	5925.3	6803.0	7770.3	7951.6	7893.0	7622.2	7390.0	6583.0	4783.3
67.5°	5552.8	5626.8	6222.7	7311.5	8232.4	8373.9	8271.1	7775.8	7072.8	5672.1	3642.5
70°	4938.1	5077.4	5941.9	7340.3	8423.6	8558.5	8312.0	7362.4	5896.6	3757.5	1995.4
72.5°	3755.3	3917.8	4951.4	6010.4	7575.8	7883.1	7461.9	5998.3	3800.6	1646.0	669.9
75°	2101.5	2277.3	3687.8	4525.8	5086.2	5367.0	5212.3	3848.1	1683.6	430.0	200.1
77.5°	710.8	769.4	1715.7	2800.1	3357.3	3105.3	2628.8	1911.3	619.1	163.6	106.1
80°	421.2	443.3	639.0	1394.0	1766.5	1464.7	1156.3	706.4	315.1	87.3	74.1
82.5°	126.0	149.2	352.6	517.4	692.0	431.1	364.8	403.5	163.6	47.5	61.9
85°	0.0	0.0	75.2	160.3	181.3	70.7	70.7	228.8	29.8	19.9	45.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.5	3.3	4.4	9.9
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: P637487
CATALOG NUMBER: GWS-SA4C-830-U-SL4-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7
2.5°	2048.4	2009.7	1964.4	1921.3	1880.4	1827.3	1801.9	1771.0	1744.4	1730.1	1737.8
5°	2007.5	1946.7	1853.9	1759.9	1664.8	1575.3	1494.6	1440.4	1391.8	1366.4	1371.9
7.5°	1972.1	1890.3	1745.5	1591.9	1439.3	1285.7	1160.7	1063.5	988.3	957.3	951.8
10°	1956.7	1853.9	1649.4	1428.3	1193.9	987.2	810.3	703.1	626.8	589.2	595.8
12.5°	1964.4	1835.1	1567.5	1268.0	964.0	723.0	553.8	453.2	399.1	377.0	371.4
15°	1986.5	1830.7	1494.6	1104.4	744.0	505.2	382.5	341.6	330.5	328.3	328.3
17.5°	2011.9	1831.8	1419.4	938.5	564.9	374.8	327.2	319.5	316.2	314.0	315.1
20°	2037.4	1831.8	1333.2	770.5	424.5	323.9	311.7	306.2	302.9	301.8	301.8
22.5°	2068.3	1831.8	1237.0	614.6	340.5	307.3	297.4	294.1	290.7	289.6	288.5
25°	2105.9	1832.9	1130.9	480.9	309.5	292.9	285.2	281.9	278.6	276.4	276.4
27.5°	2160.1	1841.7	1013.7	374.8	291.8	279.7	273.0	269.7	266.4	263.1	263.1
30°	2238.6	1863.8	882.2	309.5	275.3	265.3	258.7	256.5	253.2	249.8	248.7
32.5°	2355.7	1902.5	746.2	277.5	259.8	249.8	242.1	239.9	236.6	233.3	232.1
35°	2519.4	1973.3	613.5	257.6	239.9	229.9	225.5	224.4	220.0	216.7	216.7
37.5°	2759.2	2088.2	486.4	237.7	223.3	215.6	210.0	207.8	203.4	200.1	199.0
40°	3052.2	2237.5	378.1	222.2	207.8	200.1	194.6	191.2	185.7	181.3	179.1
42.5°	3425.8	2419.9	298.5	205.6	193.5	185.7	181.3	174.7	166.9	160.3	159.2
45°	3815.0	2607.8	246.5	190.1	180.2	173.6	168.0	159.2	148.1	140.4	138.2
47.5°	4113.4	2725.0	215.6	173.6	165.8	160.3	153.7	142.6	129.3	120.5	118.3
50°	4326.8	2742.7	192.4	158.1	153.7	148.1	138.2	124.9	110.5	101.7	99.5
52.5°	4431.8	2663.1	173.6	143.7	140.4	134.9	122.7	108.3	92.9	84.0	81.8
55°	4479.3	2512.7	155.9	131.6	127.1	120.5	107.2	91.8	76.3	68.5	66.3
57.5°	4460.6	2290.5	140.4	119.4	113.9	106.1	91.8	75.2	63.0	55.3	54.2
60°	4321.3	1978.8	124.9	107.2	100.6	91.8	77.4	61.9	50.9	45.3	44.2
62.5°	4020.6	1591.9	109.4	92.9	88.4	79.6	66.3	50.9	42.0	38.7	37.6
65°	3404.8	1125.4	94.0	78.5	76.3	67.4	55.3	42.0	36.5	34.3	33.2
67.5°	2447.5	684.3	79.6	67.4	65.2	57.5	46.4	36.5	33.2	32.1	32.1
70°	*1230.4*	*323.9*	*63.0*	*55.3*	*55.3*	*47.5*	*39.8*	*33.2*	*32.1*	*31.0*	*31.0*
72.5°	417.9	138.2	47.5	43.1	45.3	40.9	34.3	31.0	31.0	31.0	31.0
75°	142.6	73.0	33.2	31.0	33.2	33.2	29.8	29.8	31.0	31.0	31.0
77.5°	92.9	48.6	23.2	21.0	25.4	25.4	25.4	27.6	29.8	29.8	29.8
80°	76.3	26.5	15.5	14.4	18.8	18.8	21.0	25.4	27.6	27.6	27.6
82.5°	65.2	16.6	8.8	9.9	13.3	14.4	17.7	21.0	24.3	25.4	25.4
85°	44.2	8.8	6.6	7.7	8.8	11.1	14.4	17.7	19.9	22.1	22.1
87.5°	12.2	3.3	4.4	5.5	5.5	7.7	11.1	13.3	15.5	16.6	16.6
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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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

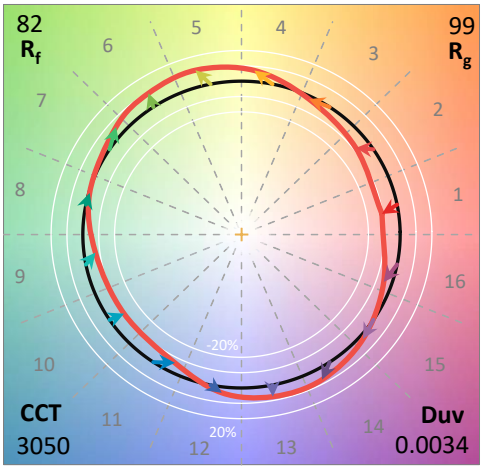
Test Information

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

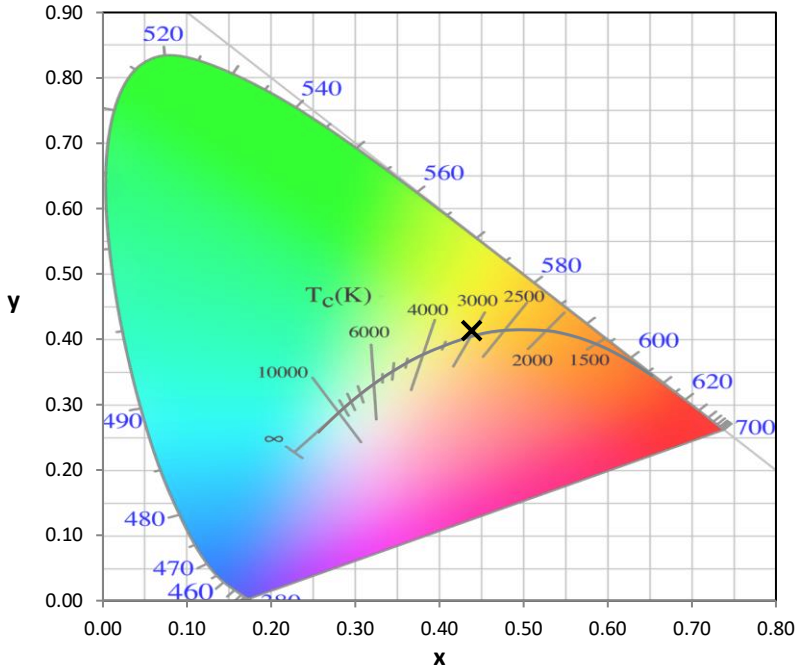
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

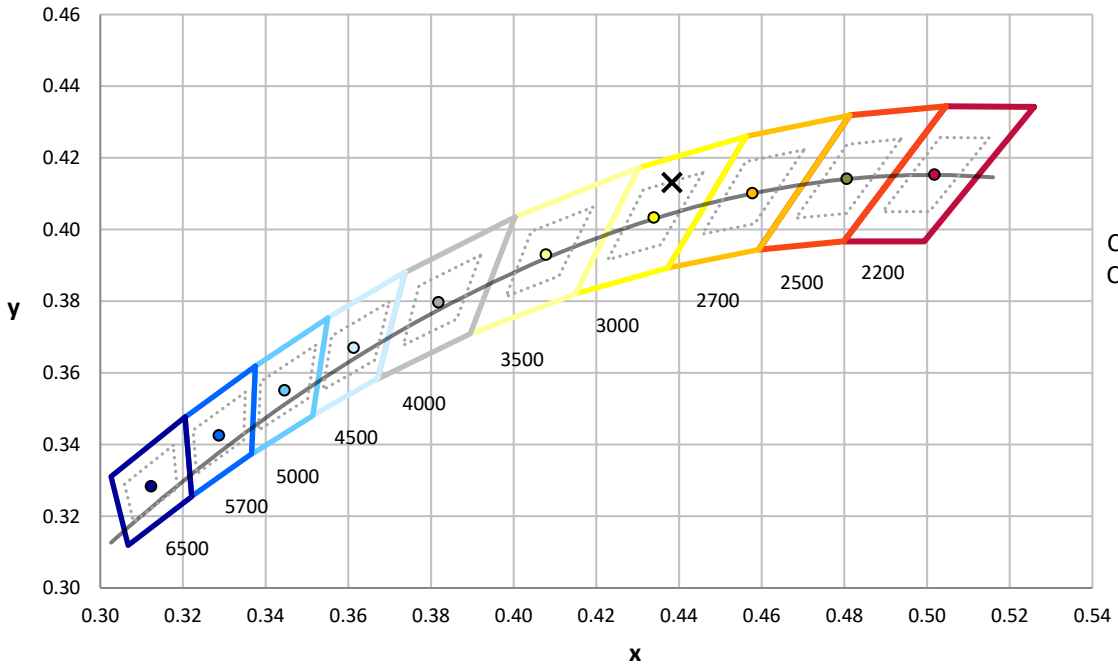
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

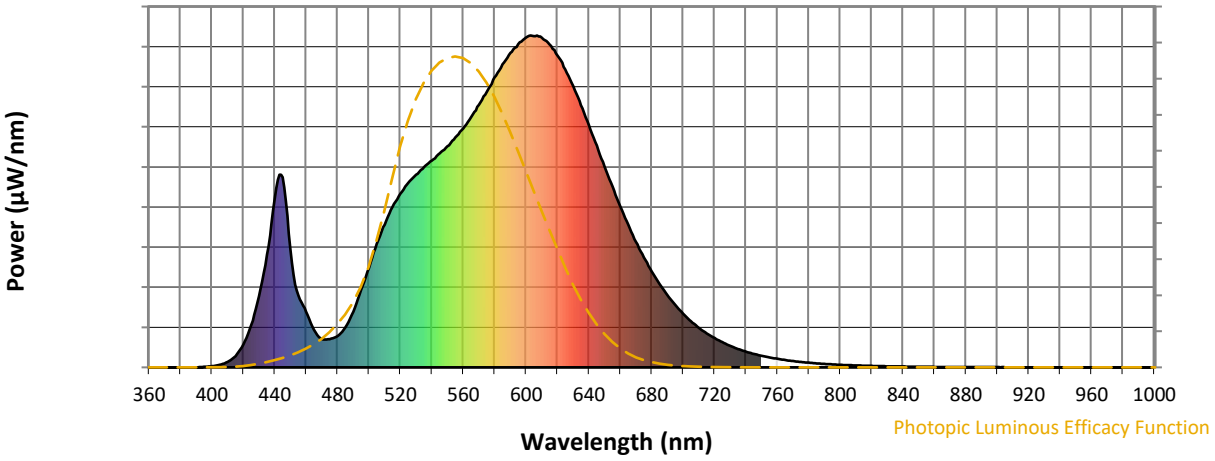


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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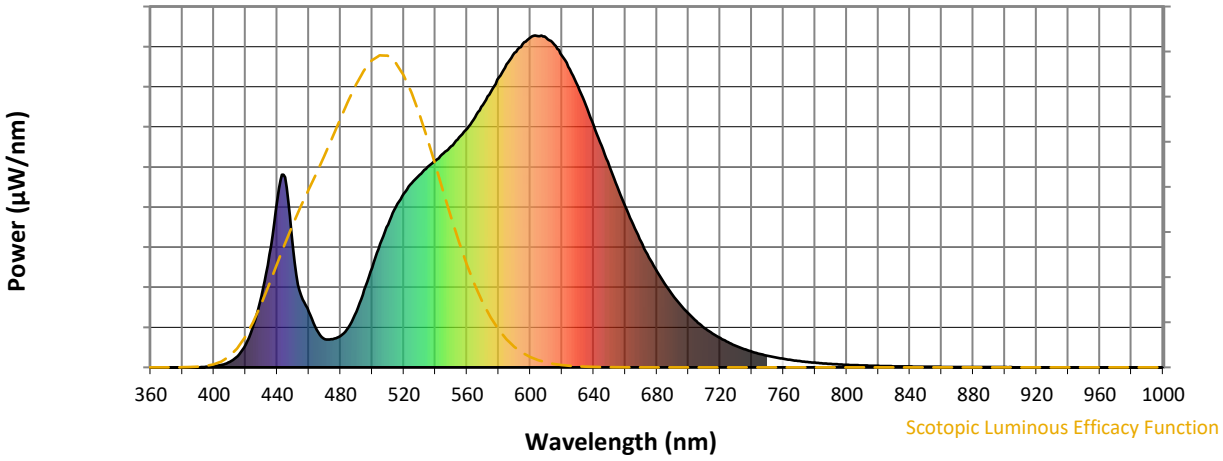
Scotopic Flux vs. Wavelength



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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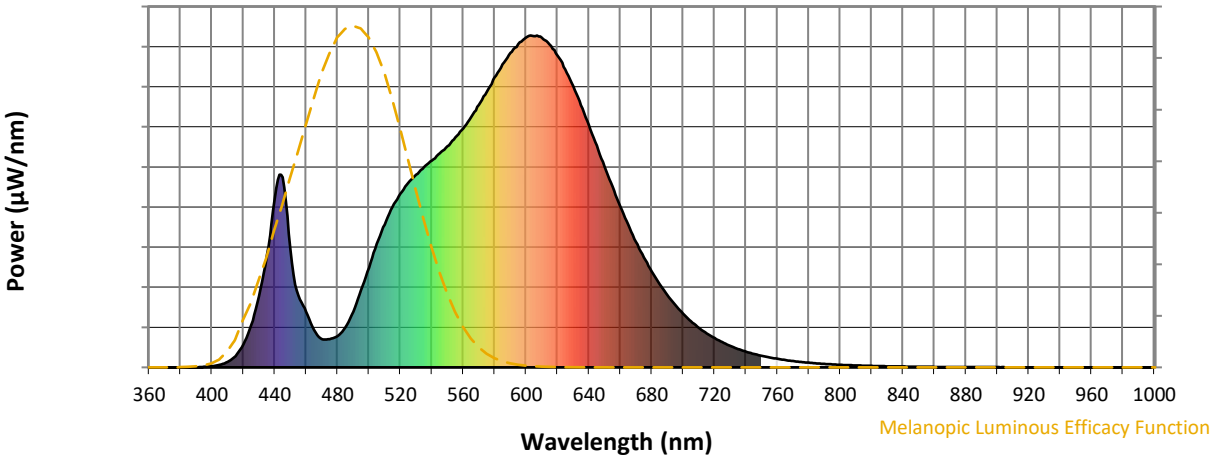
Melanopic Flux vs. Wavelength



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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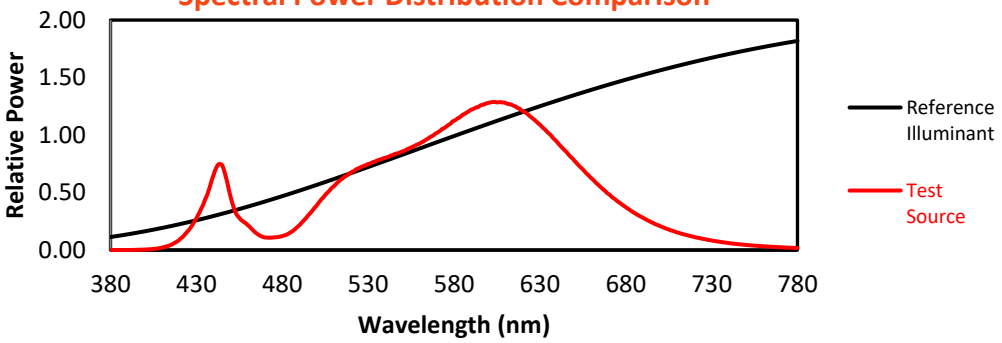
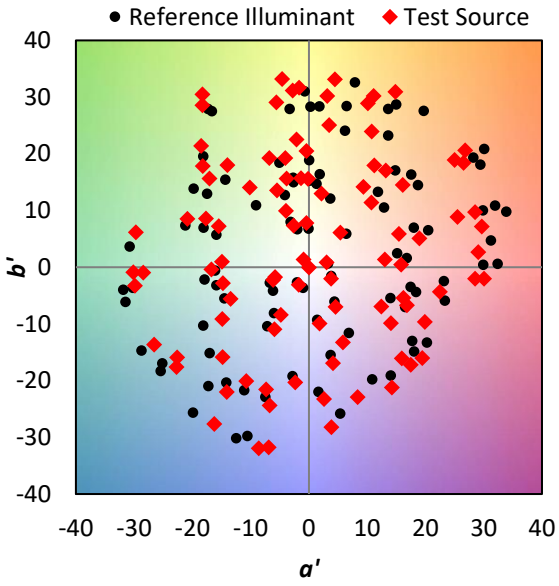
Summary

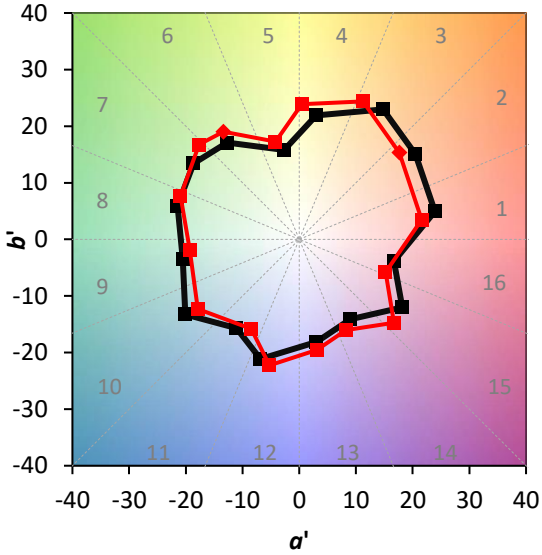
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

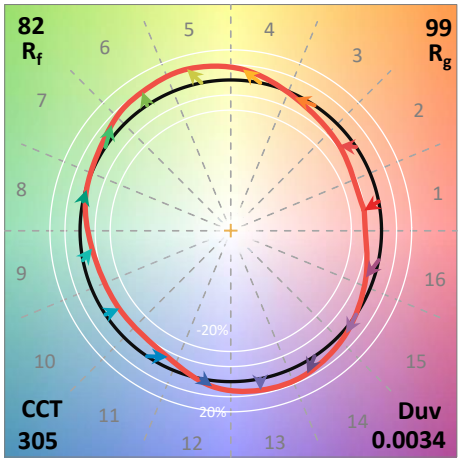
Spectral Power Distribution Comparison

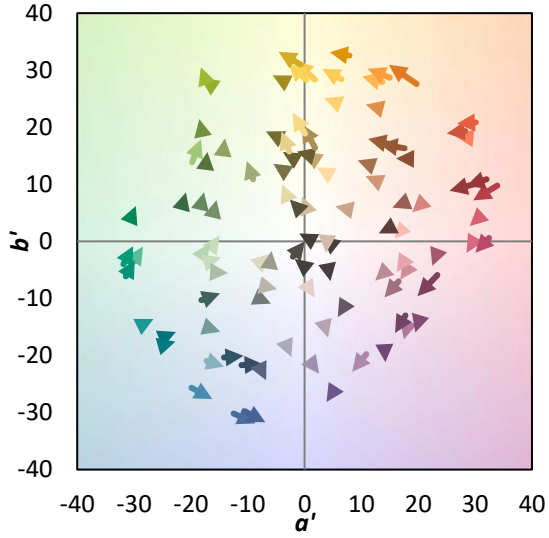


Color Vector Graphics









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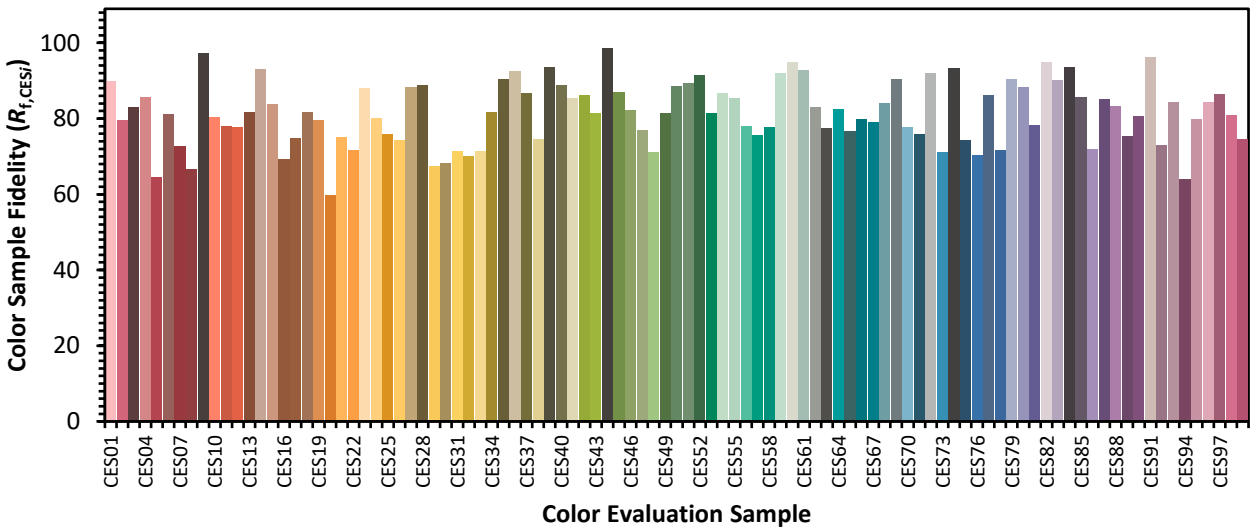
Individual Sample Fidelity Index ($R_{f,i}$)

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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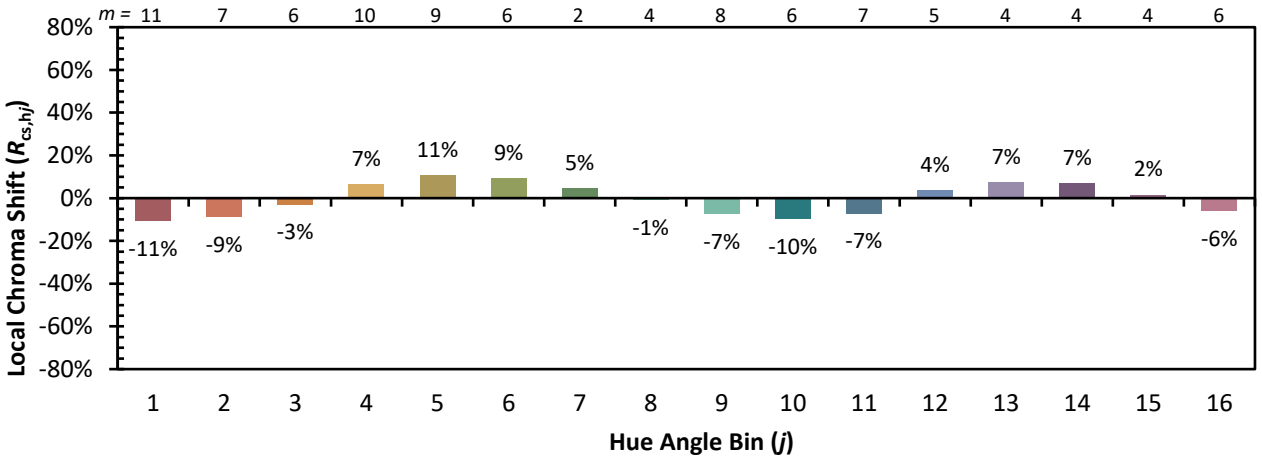
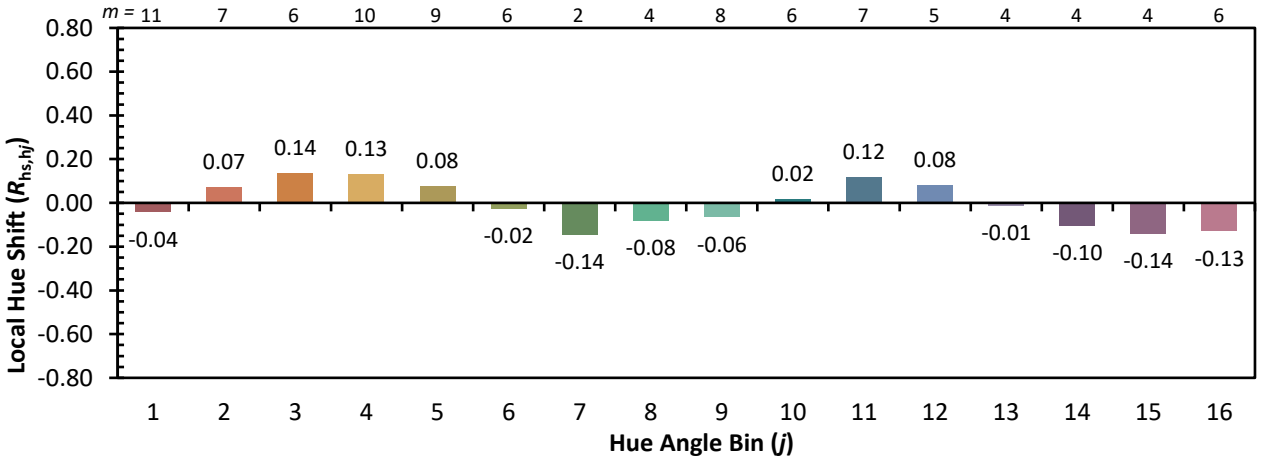
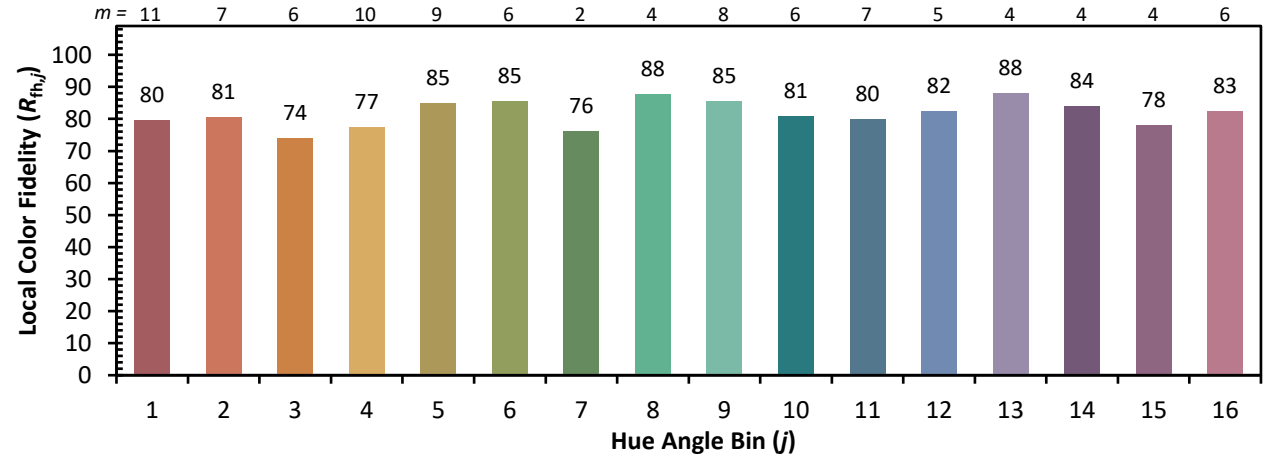
Color Rendition by Hue-Angle Bin







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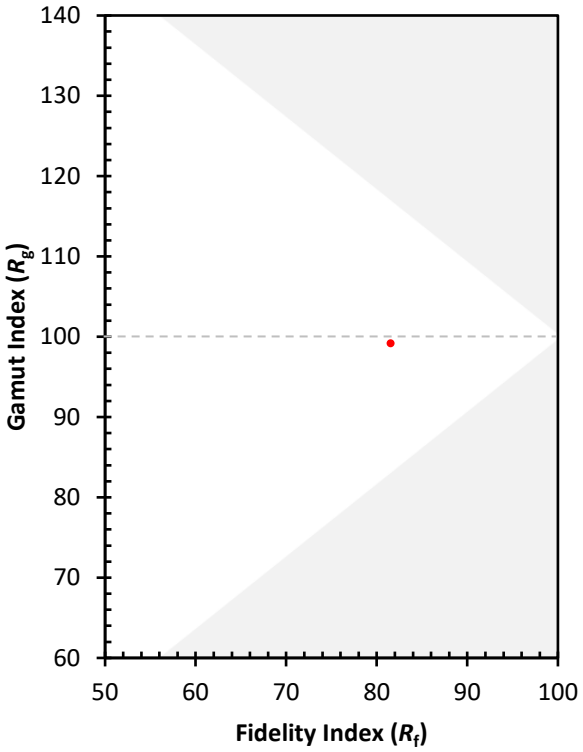
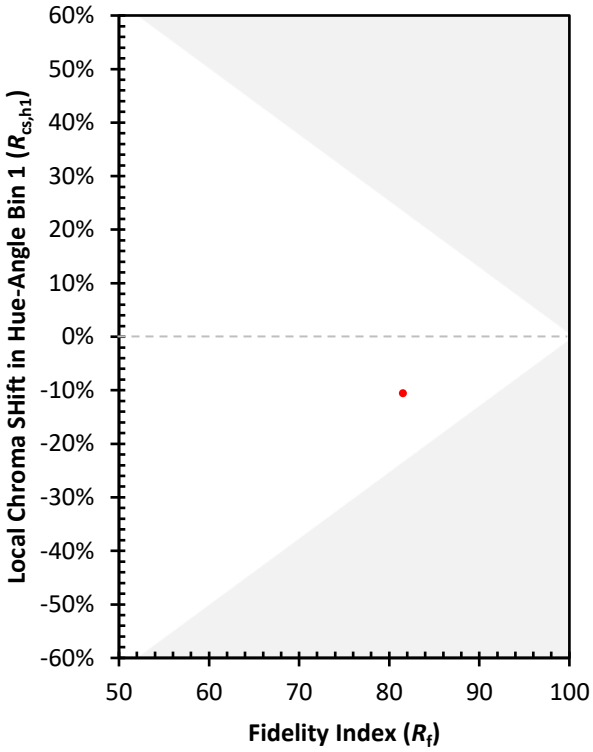
Measure Comparisons





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