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: P632523

Luminaire Tested: GWS-SA2C-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:	P632523
	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-SA2C-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:	6670 lumens
Efficiency:	N/A
Efficacy:	105.5 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	63.2
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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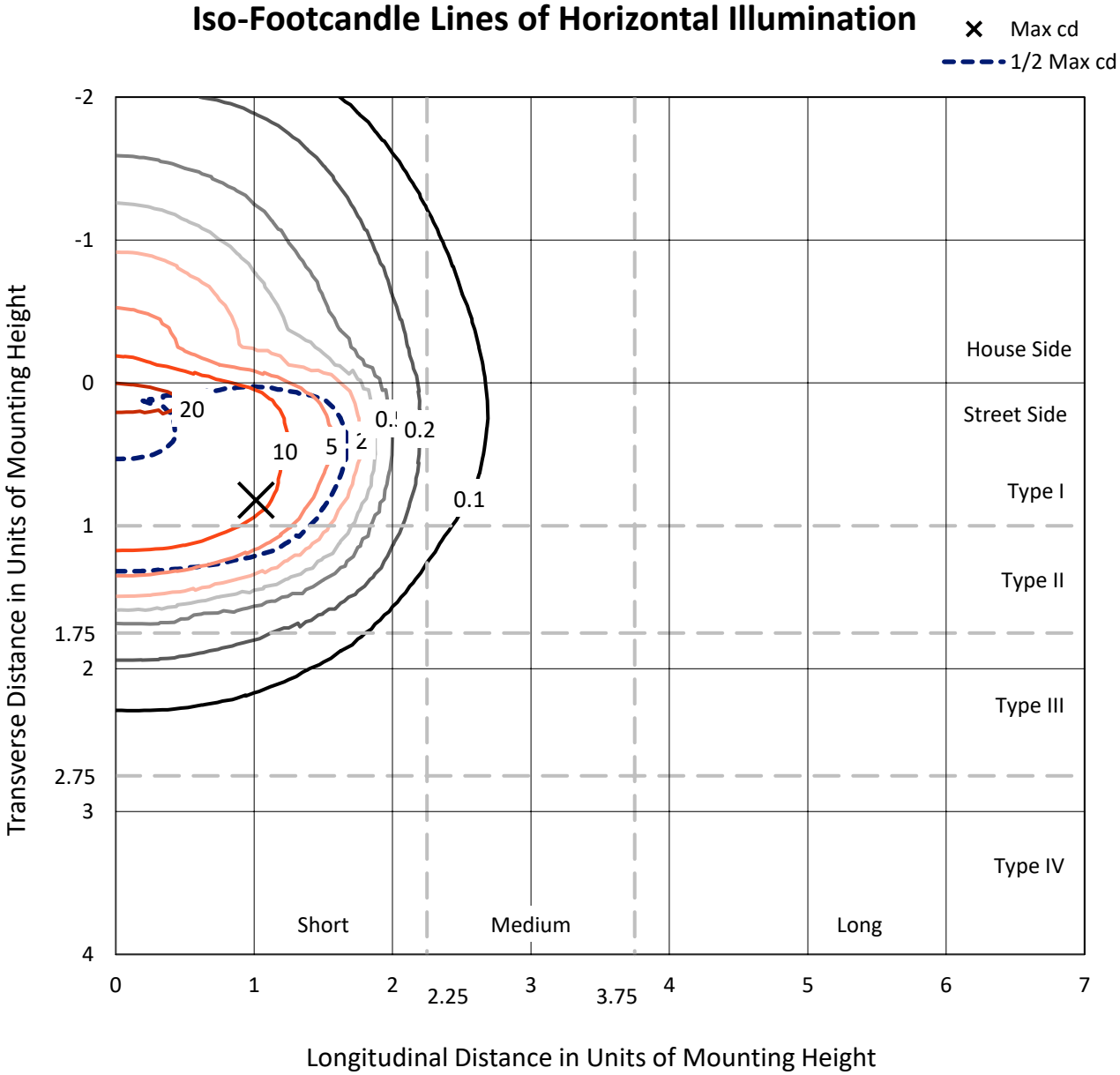
Scaled Data Report

REPORT NUMBER: P632523
CATALOG NUMBER: GWS-SA2C-830-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 24.3 fc
Type II - Short - N/A

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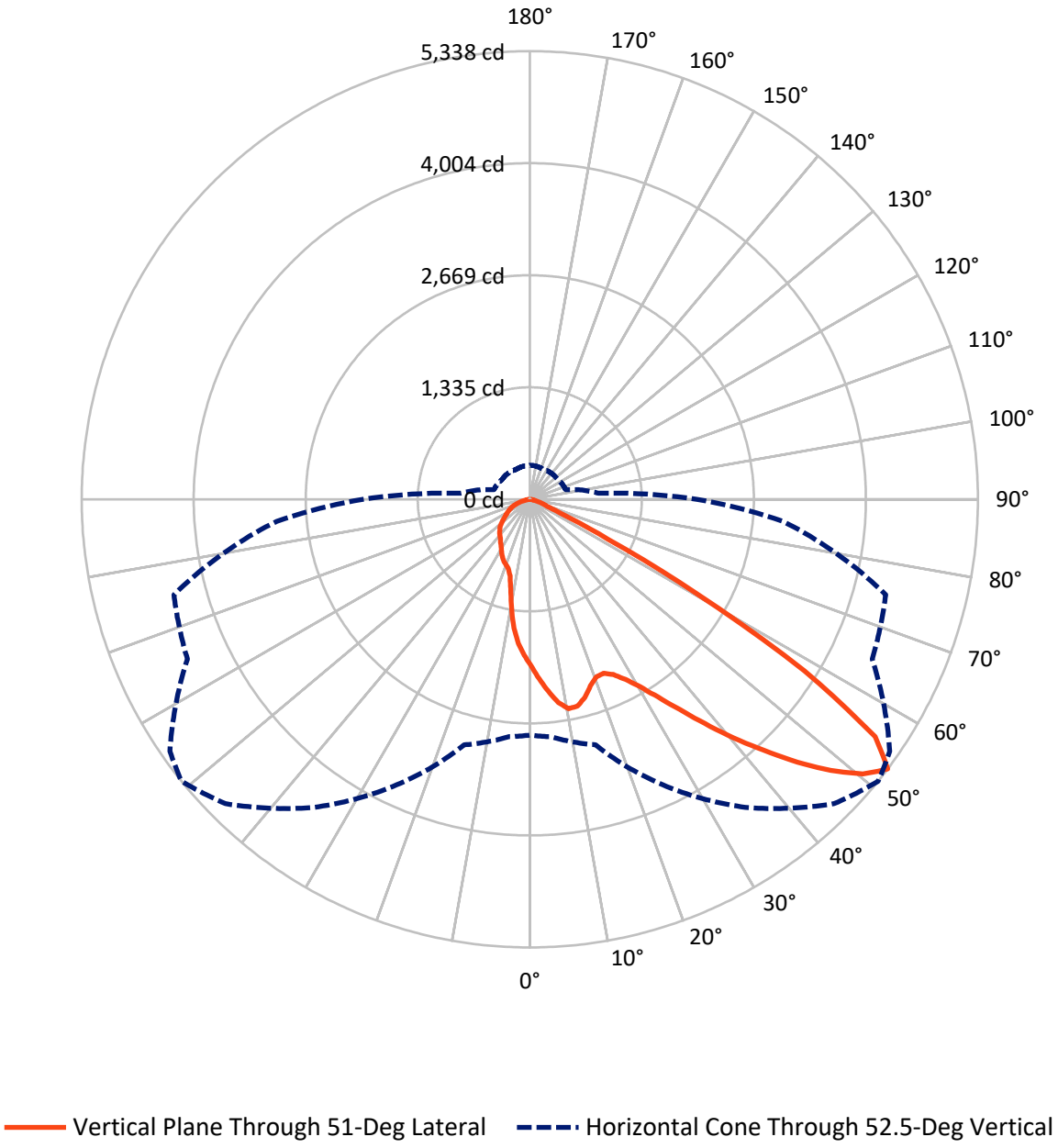
Luminous Intensity Polar Plot



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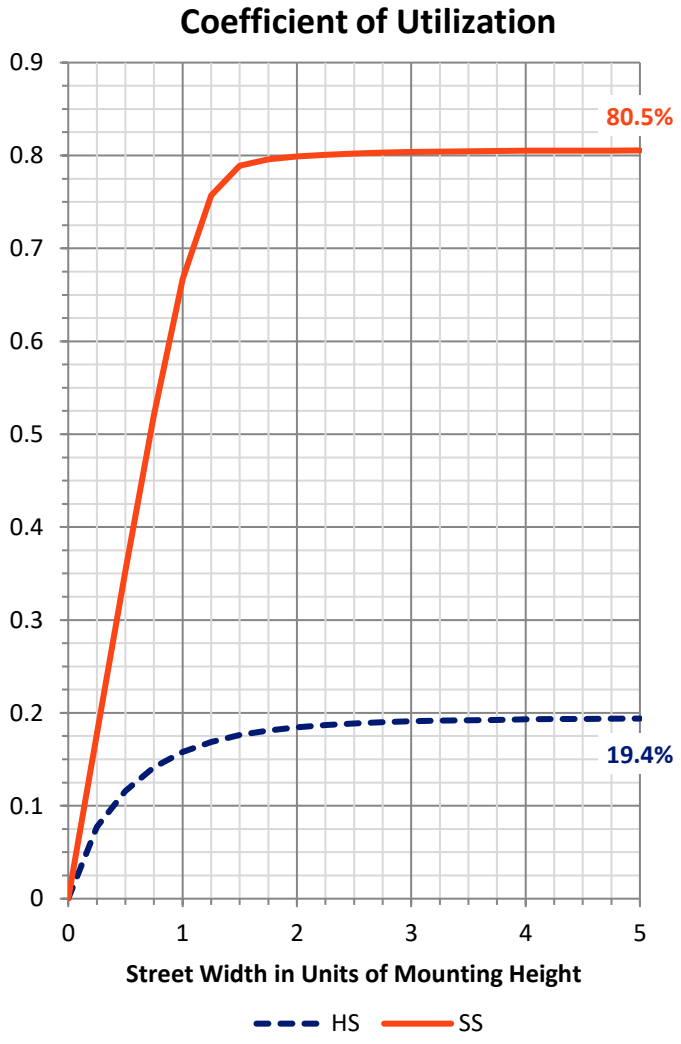
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1299.6	0.0	1299.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5370.4	0.0	5370.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	6670.0	0.0	6670.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	2.8
10°-20°	481.5	7.2
20°-30°	782.9	11.7
30°-40°	1240.8	18.6
40°-50°	1871.4	28.1
50°-60°	1618.9	24.3
60°-70°	367.0	5.5
70°-80°	108.2	1.6
80°-90°	13.9	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°	6670.0	100.0
0°-180°	6670.0	100.0



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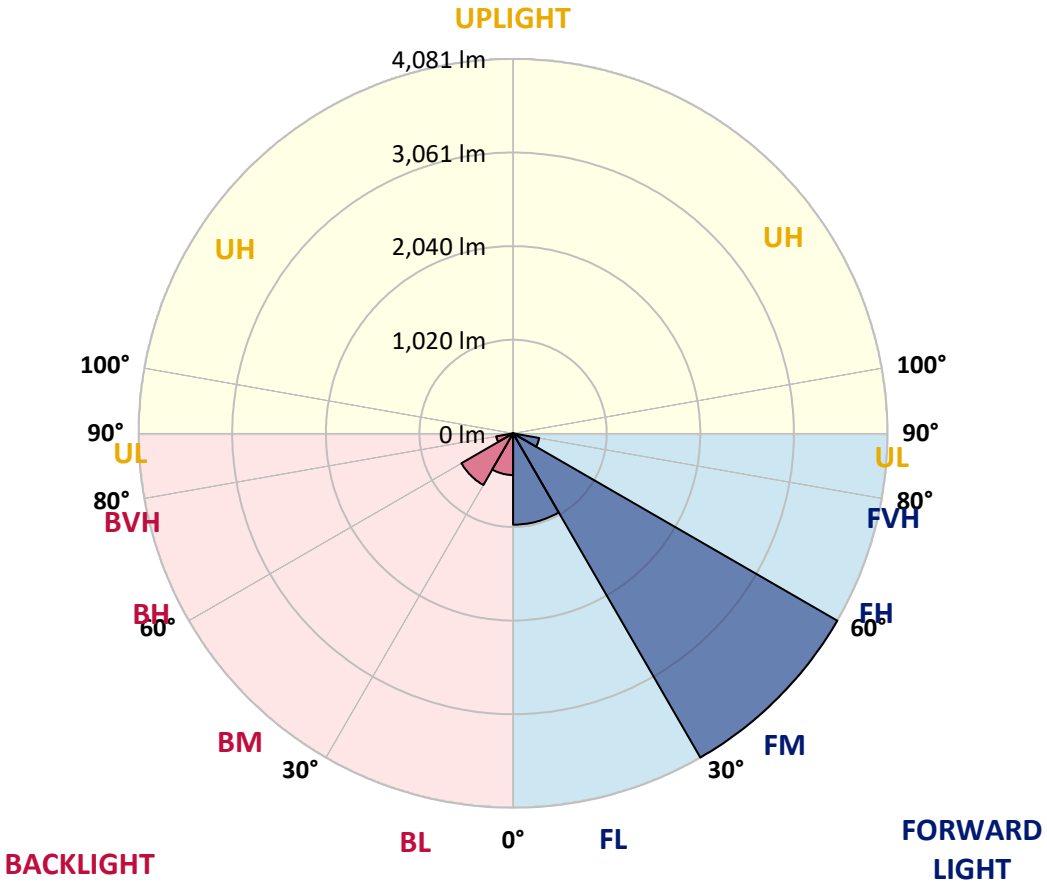
CATALOG NUMBER: GWS-SA2C-830-U-AFL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	995.5	14.9			
FM	(30°-60°)	4080.8	61.2			
FH	(60°-80°)	288.8	4.3			G0/660
FVH	(80°-90°)	5.3	0.1			G0/10
BL	(0°-30°)	454.3	6.8	B1/500		
BM	(30°-60°)	650.2	9.7	B1/1000		
BH	(60°-80°)	186.4	2.8	B1/500		G1/500
BVH	(80°-90°)	8.7	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-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P632523
CATALOG NUMBER: GWS-SA2C-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	*1986.0*	1986.0	1986.0	1986.0	1986.0
2.5°	2213.2	2225.8	2206.3	2198.9	2186.8	2165.7	*2141.5*	2134.6	2082.4	2048.2	2009.7
5°	2435.6	2442.4	2426.6	2410.8	2380.8	2343.3	*2296.4*	2286.4	2191.5	2113.0	2031.3
7.5°	2485.1	2482.5	2496.2	2505.2	2501.5	2486.7	*2445.1*	2425.6	2312.2	2187.9	2067.2
10°	2289.1	2274.3	2324.9	2385.0	2457.2	2540.5	*2535.7*	2534.1	2435.6	2288.5	2113.0
12.5°	2029.2	2021.8	2062.9	2138.3	2274.8	2459.3	*2528.3*	2582.1	2546.8	2384.5	2164.1
15°	1880.6	1877.9	1905.9	1960.2	2068.7	2301.7	*2449.3*	2555.8	2642.2	2487.2	2218.4
17.5°	1853.7	1855.3	1864.8	1895.9	1973.9	2165.7	*2336.5*	2485.1	2716.5	2600.0	2286.4
20°	1932.2	1942.8	1926.4	1931.2	1973.3	2116.7	*2259.5*	2414.0	2763.9	2713.3	2359.7
22.5°	2106.7	2103.0	2067.2	2046.1	2046.6	2146.7	*2251.1*	2380.8	2795.0	2823.5	2426.1
25°	2304.3	2300.1	2257.4	2210.5	2181.0	2228.4	*2311.7*	2416.1	2823.0	2924.2	2479.3
27.5°	2537.8	2524.7	2477.2	2417.1	2351.8	2372.3	*2428.7*	2511.5	2866.2	3023.3	2514.6
30°	2763.9	2779.2	2711.2	2640.1	2571.0	2558.4	*2591.1*	2665.9	2954.2	3139.2	2556.8
32.5°	3063.8	3058.6	2983.2	2890.4	2791.9	2782.4	*2808.2*	2876.7	3112.3	3299.4	2621.1
35°	3427.0	3428.0	3321.1	3195.6	3055.4	3030.1	*3073.3*	3139.7	3347.9	3516.6	2722.8
37.5°	3804.4	3802.8	3709.5	3567.2	3375.9	3340.0	*3389.6*	3439.1	3642.6	3812.3	2881.0
40°	4069.0	4079.5	4035.8	3960.9	3779.6	3692.1	*3735.9*	3770.1	3963.0	4160.1	3089.1
42.5°	4219.2	4235.0	4244.5	4289.3	4193.9	4100.6	*4084.8*	4102.7	4249.2	4483.2	3284.7
45°	4251.3	4272.4	4341.5	4507.5	4544.4	4518.0	*4466.4*	4423.2	4462.7	4712.5	3412.8
47.5°	4109.5	4146.4	4294.0	4584.4	4800.0	4882.8	*4825.3*	4759.4	4586.0	4771.5	3399.6
50°	3547.7	3590.9	3923.5	4427.4	4836.4	5137.9	*5143.1*	5045.6	4571.3	4601.3	3234.1
52.5°	*2808.7*	*2838.3*	*3028.5*	*3753.3*	*4479.5*	*5127.3*	*5338.1*	*5233.8*	*4500.1*	*4388.4*	*3027.0*
55°	1678.7	1726.1	1903.8	2476.2	3489.7	4544.4	*4993.4*	5044.0	4465.3	4209.7	2885.7
57.5°	566.6	589.8	759.5	1093.7	2056.6	3327.4	*3858.1*	4063.7	4053.7	3936.7	2610.0
60°	269.9	275.1	309.4	414.8	823.3	1738.8	*2283.8*	2521.0	2737.1	2758.7	1623.9
62.5°	205.6	208.7	226.1	248.8	331.0	732.6	*1046.8*	1228.1	1311.9	1125.8	591.4
65°	171.8	174.5	187.6	201.9	225.1	317.3	*401.6*	463.3	417.4	325.2	282.0
67.5°	143.4	145.5	155.5	170.8	186.6	212.4	*222.9*	229.3	240.3	269.9	259.3
70°	112.3	114.4	124.9	138.1	153.4	159.7	*169.7*	176.0	198.2	236.1	235.1
72.5°	86.4	89.1	94.9	103.3	116.0	122.3	*133.3*	140.7	153.4	183.9	196.6
75°	63.2	64.8	70.1	72.7	74.3	72.7	*83.8*	92.2	109.1	120.7	123.9
77.5°	25.8	29.0	27.9	27.9	33.2	40.1	*45.9*	51.1	62.7	69.6	70.1
80°	10.5	11.6	13.7	15.3	18.4	23.7	*27.4*	29.5	34.8	39.0	42.2
82.5°	6.3	6.9	7.9	8.4	10.5	13.7	*15.8*	17.4	21.6	25.8	27.4
85°	3.2	3.2	3.7	4.2	5.3	6.3	*7.4*	8.4	11.1	13.7	15.3
87.5°	0.5	0.5	0.5	1.1	1.6	2.1	*2.6*	3.2	3.7	4.2	5.3
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: P632523
CATALOG NUMBER: GWS-SA2C-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0
2.5°	1987.0	1958.6	1925.4	1899.0	1868.5	1845.8	1813.6	1793.6	1774.6	1758.8	1747.2
5°	1989.2	1941.2	1872.1	1811.0	1747.8	1687.7	1626.0	1575.9	1531.1	1493.7	1490.5
7.5°	2001.3	1932.2	1824.2	1717.2	1593.9	1474.7	1355.6	1258.6	1184.8	1146.4	1138.5
10°	2021.8	1931.2	1775.2	1604.4	1394.1	1202.2	1061.0	987.2	944.5	929.2	923.9
12.5°	2043.4	1928.5	1712.4	1445.2	1153.2	985.1	907.6	898.7	906.6	907.6	907.1
15°	2069.8	1927.0	1633.4	1258.6	977.2	884.4	889.7	908.7	927.1	931.3	931.3
17.5°	2101.9	1923.3	1525.9	1076.3	867.0	864.9	892.9	918.2	935.5	938.7	938.7
20°	2135.7	1913.8	1393.6	927.6	822.2	852.8	882.8	902.3	914.5	918.7	919.2
22.5°	2158.9	1888.5	1241.2	817.5	794.3	829.6	851.2	871.2	871.2	860.7	857.5
25°	2163.6	1834.2	1076.3	742.1	761.1	793.8	815.9	804.3	782.7	774.3	773.7
27.5°	2146.2	1755.1	913.4	688.4	721.0	753.7	750.0	733.2	723.7	715.2	718.4
30°	2125.1	1660.3	772.2	644.1	674.6	706.8	694.1	688.4	681.5	672.0	674.1
32.5°	2110.9	1554.3	663.6	609.8	643.5	648.8	657.8	657.3	650.9	633.0	632.0
35°	2115.1	1447.3	590.8	581.9	617.7	615.6	632.5	629.3	585.6	560.8	559.2
37.5°	2148.9	1344.6	548.2	559.7	576.6	589.8	604.5	566.6	551.3	535.5	536.6
40°	2213.2	1249.2	525.0	547.6	551.8	571.3	537.1	536.6	529.7	515.5	514.9
42.5°	2285.9	1168.5	509.1	541.8	536.0	539.7	503.3	507.6	507.0	498.1	495.4
45°	2330.2	1094.2	496.5	520.2	521.8	484.9	473.8	478.6	481.2	476.5	475.9
47.5°	2284.3	1008.8	483.3	487.0	500.7	460.1	446.4	447.0	451.7	452.2	450.1
50°	2155.7	913.4	467.5	458.5	449.6	434.3	421.7	419.0	423.8	428.5	430.1
52.5°	*1989.7*	*822.2*	*441.2*	*427.5*	*406.4*	*406.4*	*400.6*	*392.1*	*398.5*	*404.8*	*406.9*
55°	1867.9	754.8	403.7	388.4	365.3	373.2	372.1	364.7	373.2	377.9	379.5
57.5°	1618.6	606.7	355.2	350.5	331.0	340.5	342.6	333.1	328.9	329.9	331.5
60°	960.8	391.6	320.5	319.9	302.5	313.6	319.9	310.4	297.8	299.4	301.5
62.5°	431.1	299.4	276.7	274.6	274.1	288.3	295.2	286.2	268.3	269.9	272.0
65°	271.4	258.8	240.3	240.3	248.8	260.9	266.2	258.8	238.2	235.6	237.7
67.5°	251.9	240.9	221.9	218.2	222.4	232.4	233.0	218.7	206.6	204.5	204.5
70°	226.1	217.7	199.2	191.9	190.3	189.7	188.2	184.5	176.6	174.5	175.5
72.5°	187.1	181.3	169.7	161.8	157.6	157.1	150.7	147.6	140.7	139.7	139.1
75°	123.9	125.4	125.4	124.4	120.7	119.1	112.3	109.1	101.2	98.0	97.5
77.5°	73.3	74.8	77.0	77.5	77.0	77.0	70.6	66.9	59.0	54.8	53.8
80°	44.8	45.9	46.9	48.5	46.4	44.8	39.0	35.3	31.6	29.0	28.5
82.5°	29.0	30.0	30.6	31.6	30.6	28.5	23.7	21.6	19.0	16.9	16.3
85°	16.3	16.9	17.9	17.9	16.3	14.8	12.1	10.5	9.0	7.9	7.9
87.5°	5.8	5.8	5.8	6.3	5.3	4.7	3.2	2.1	1.6	1.6	1.6
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

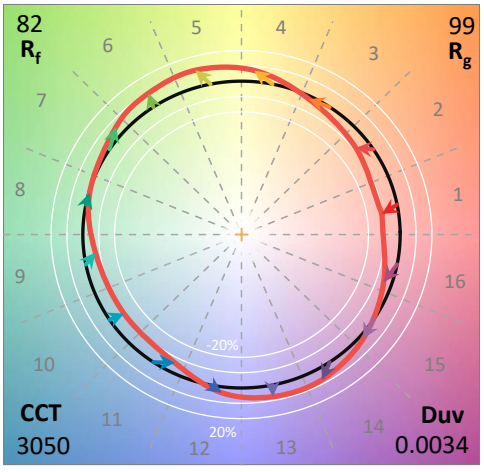
Test Information

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

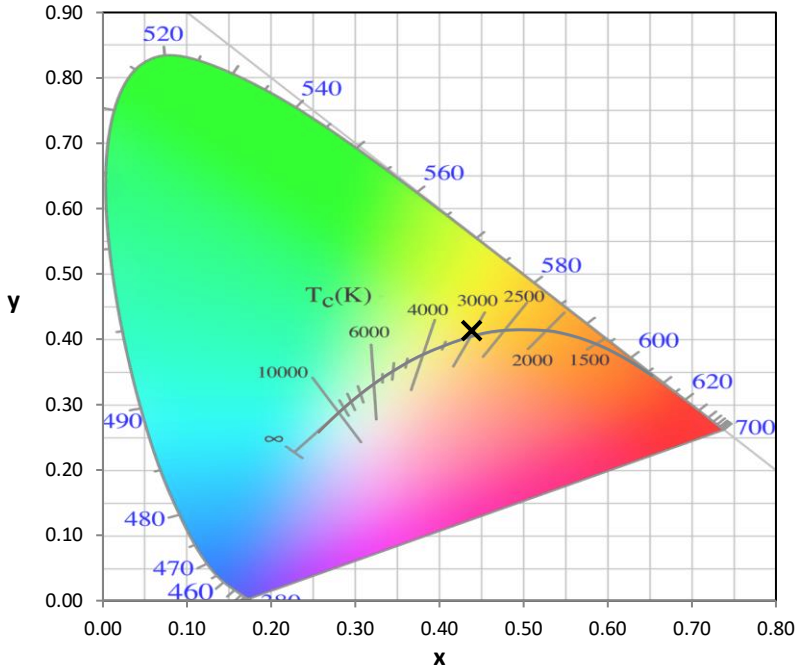
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

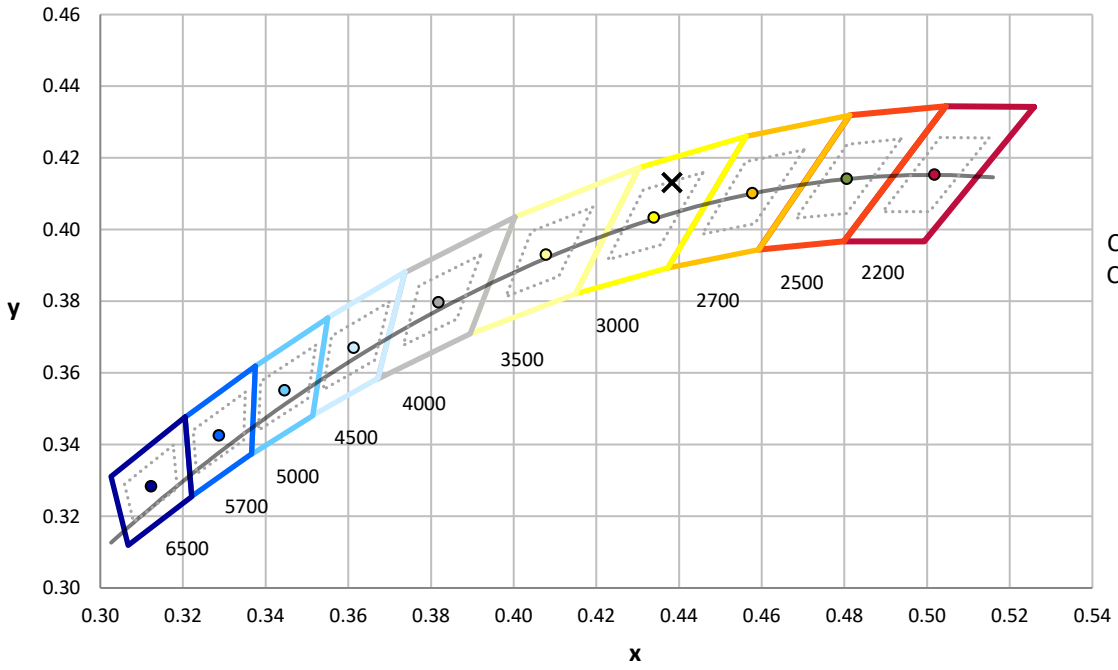
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

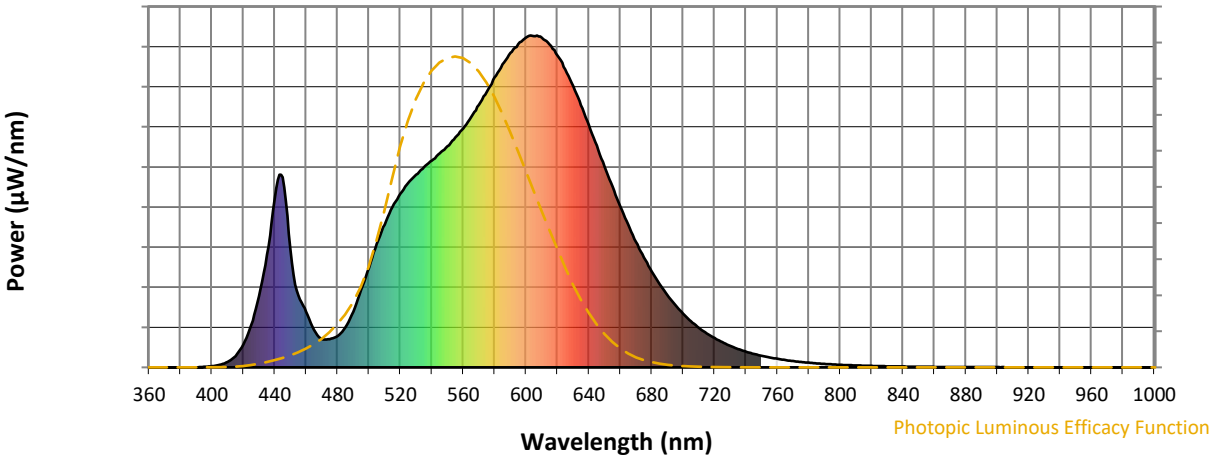


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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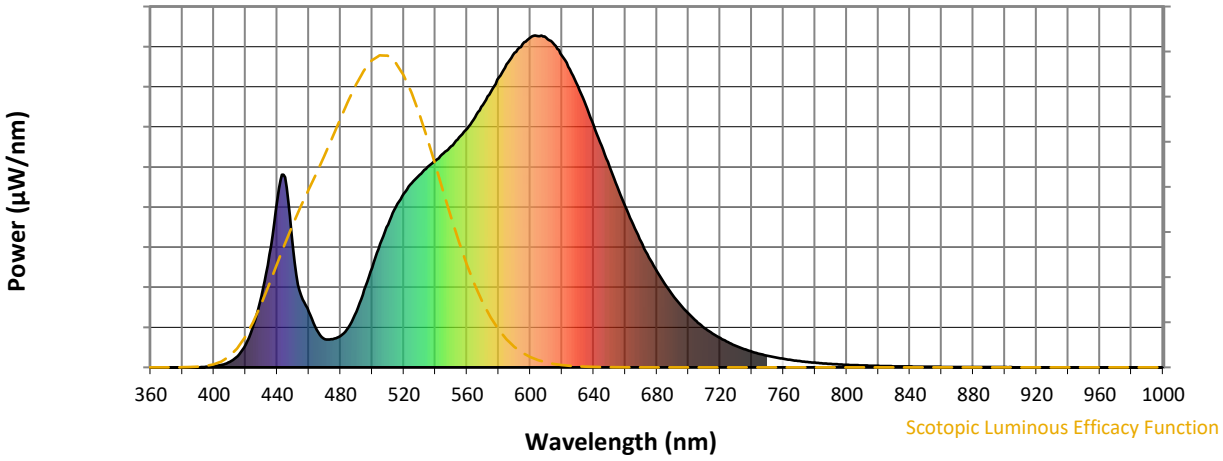
Scotopic Flux vs. Wavelength



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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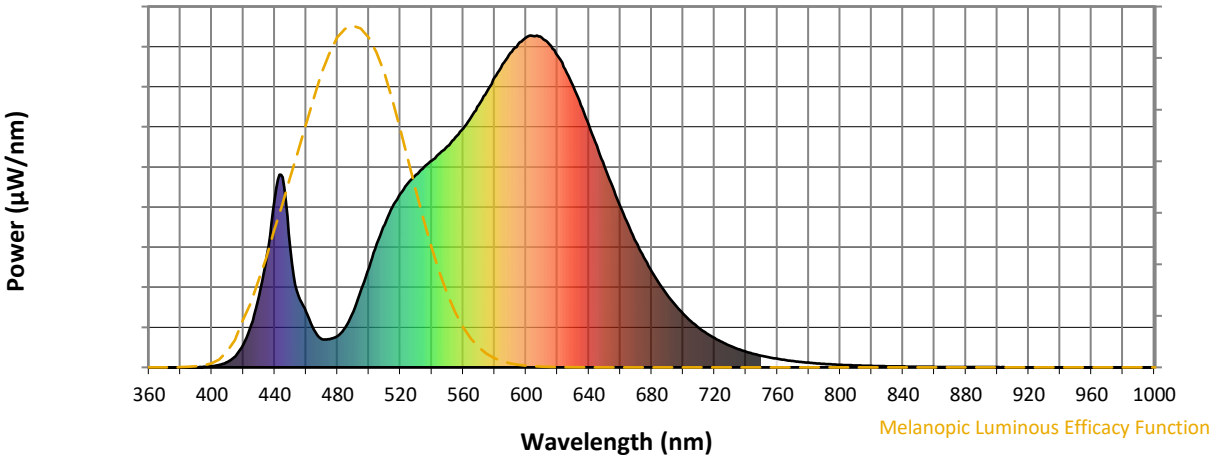
Melanopic Flux vs. Wavelength



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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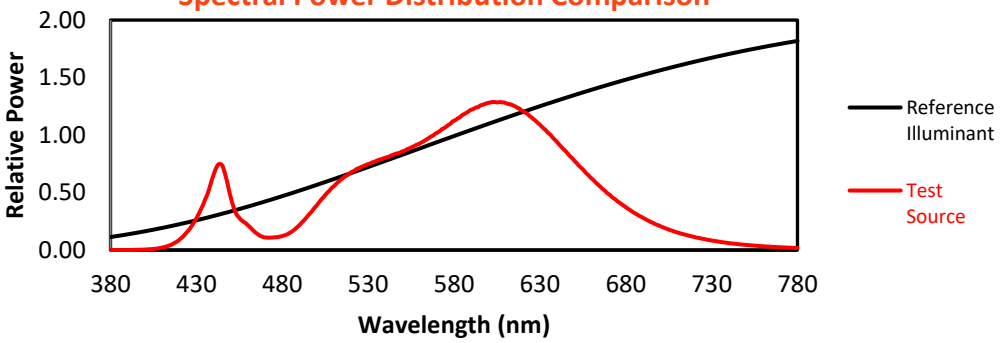
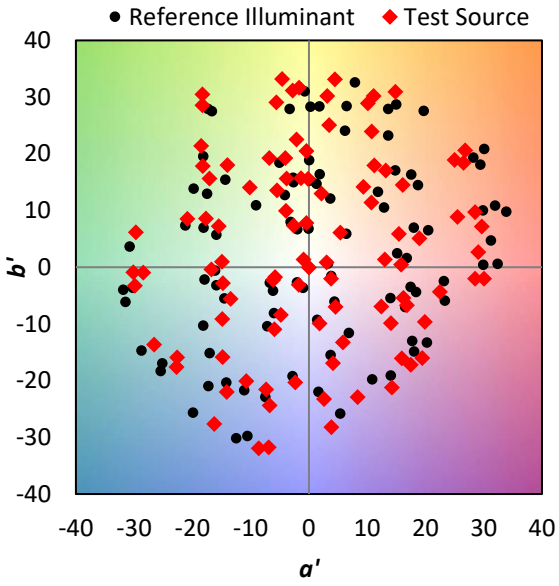
Summary

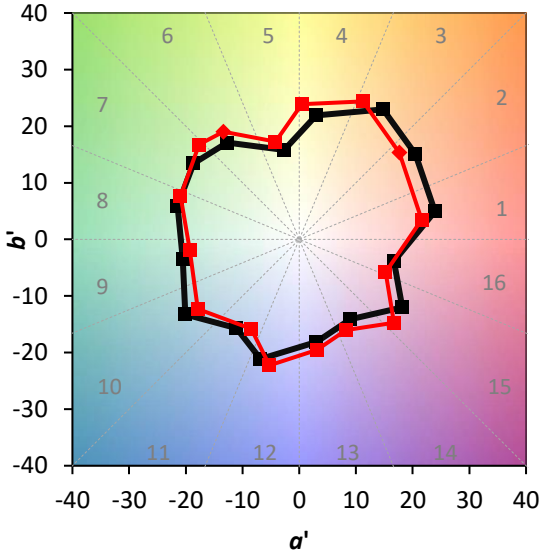
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

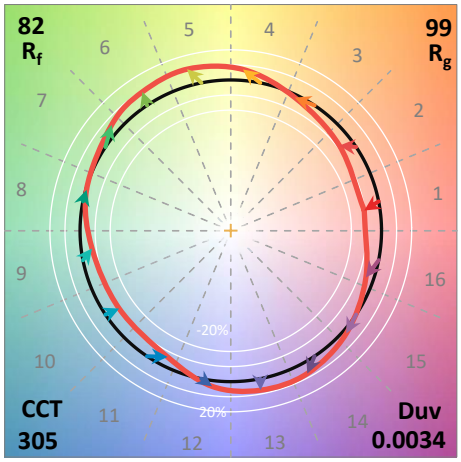
Spectral Power Distribution Comparison

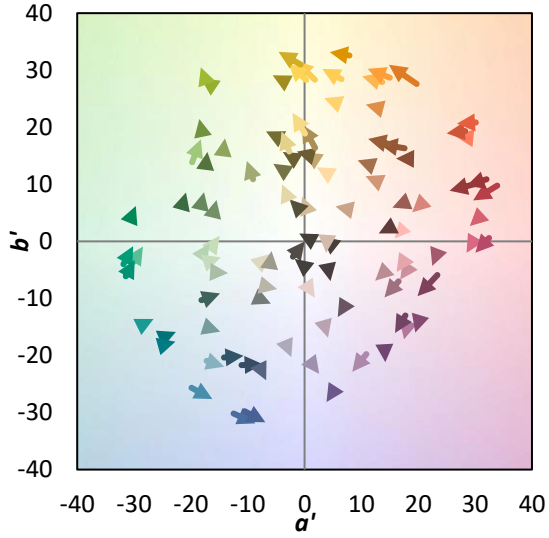


Color Vector Graphics









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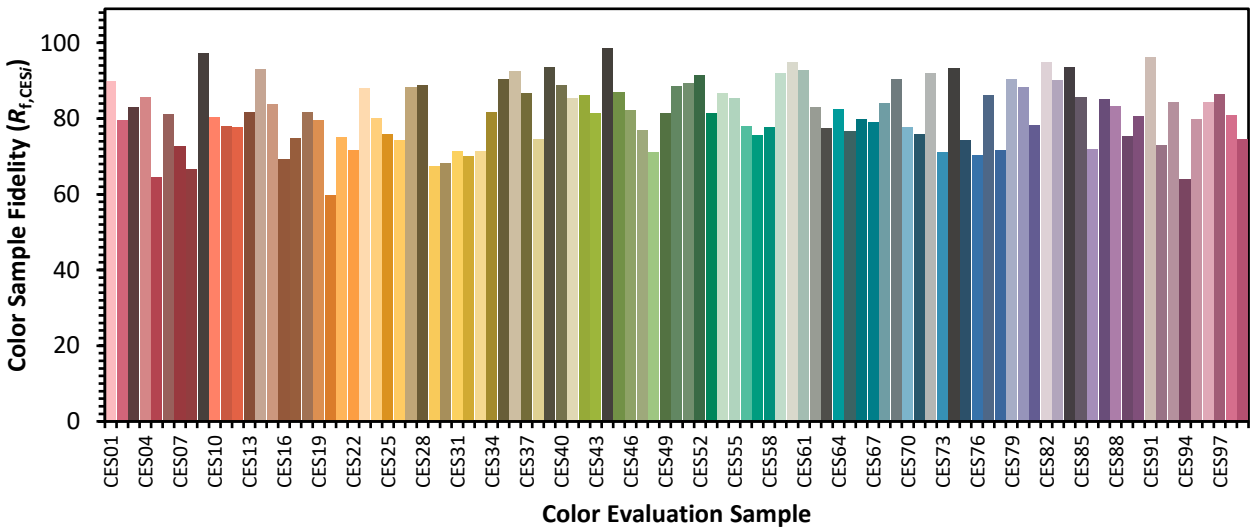
Individual Sample Fidelity Index ($R_{f,i}$)

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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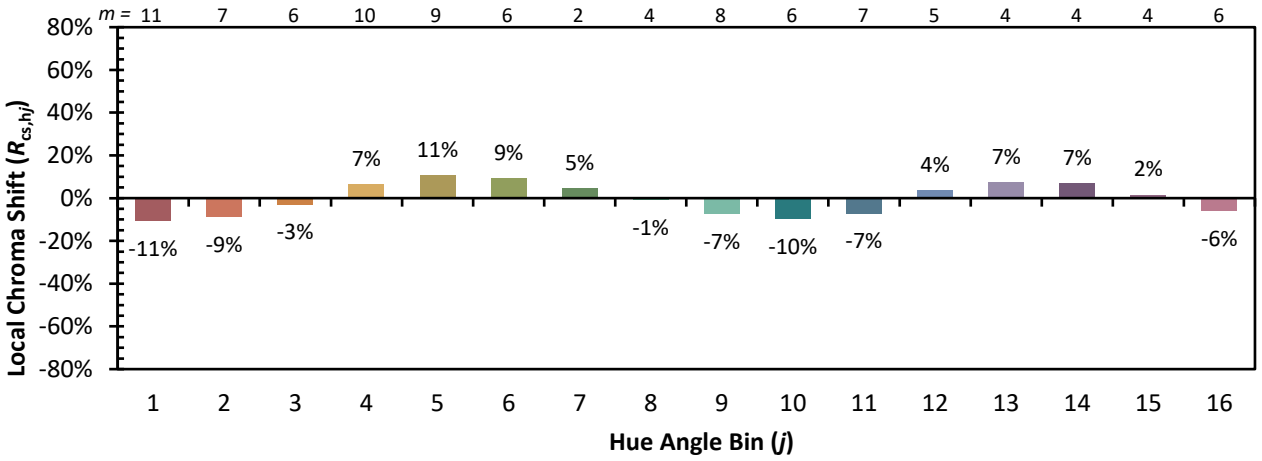
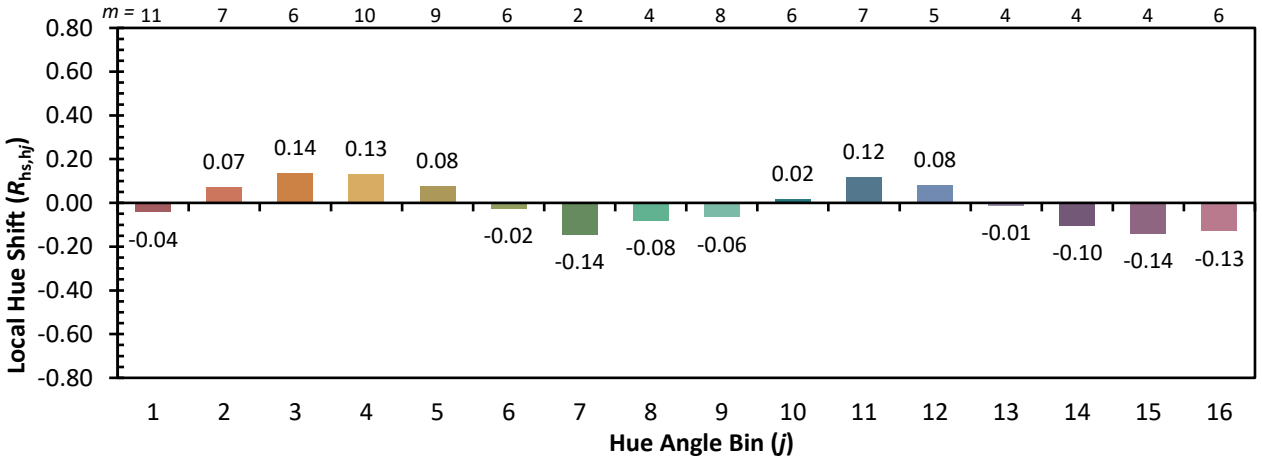
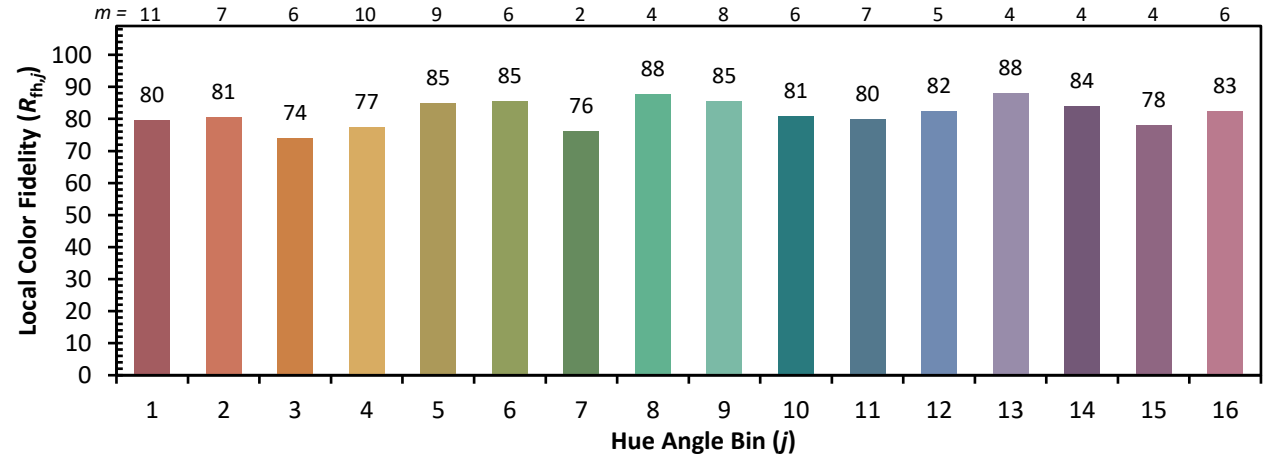
Color Rendition by Hue-Angle Bin







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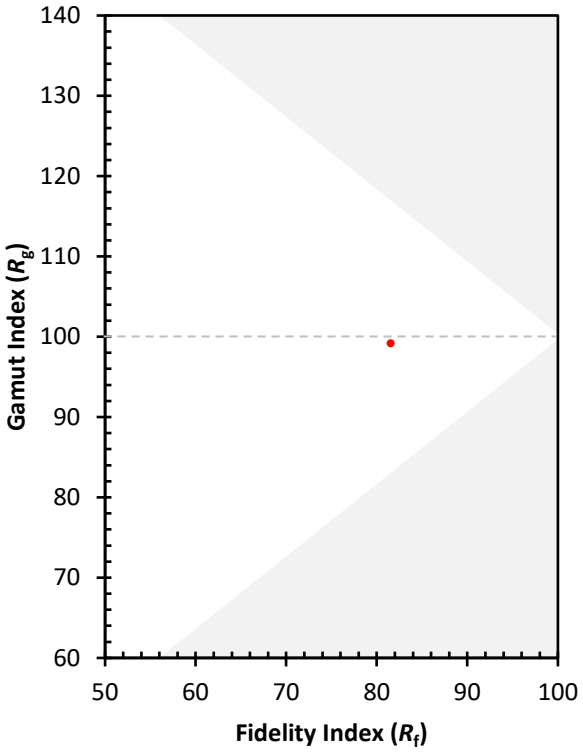
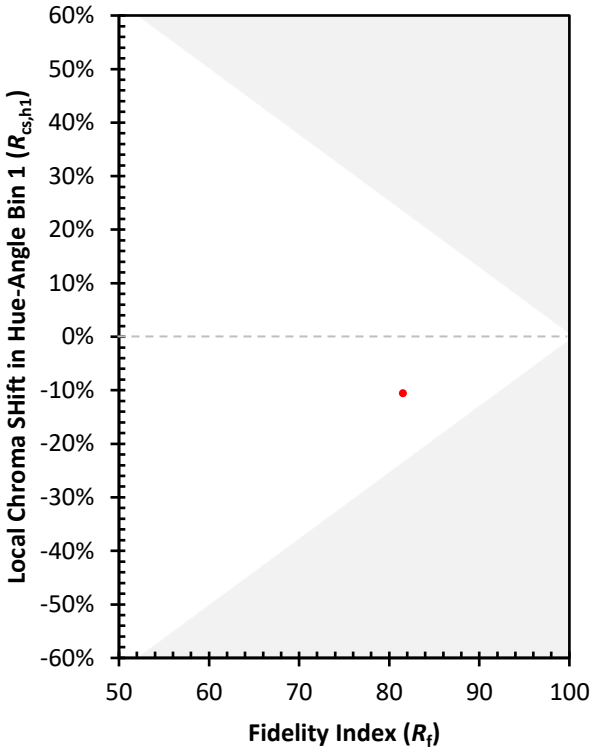
Measure Comparisons





(END OF REPORT)