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: P634510

Luminaire Tested: GWS-SA3B-830-U-SL2-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:	P634510
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3B-830-U-SL2-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7037.6 lumens
Efficiency:	N/A
Efficacy:	103.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

Input Watts (W):	68.3
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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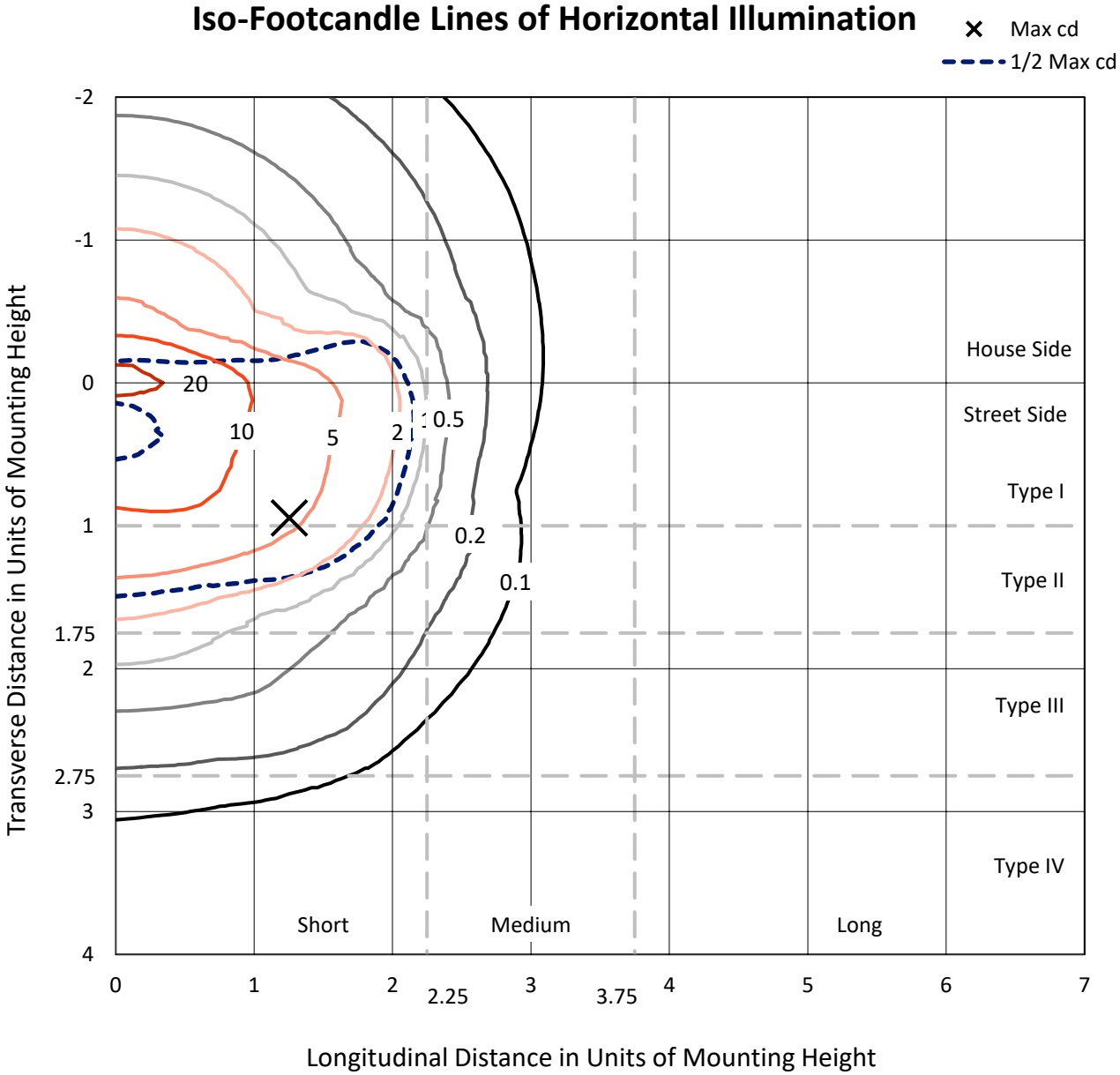
Scaled Data Report

REPORT NUMBER: P634510
CATALOG NUMBER: GWS-SA3B-830-U-SL2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 22.5 fc
Type II - Short - N/A

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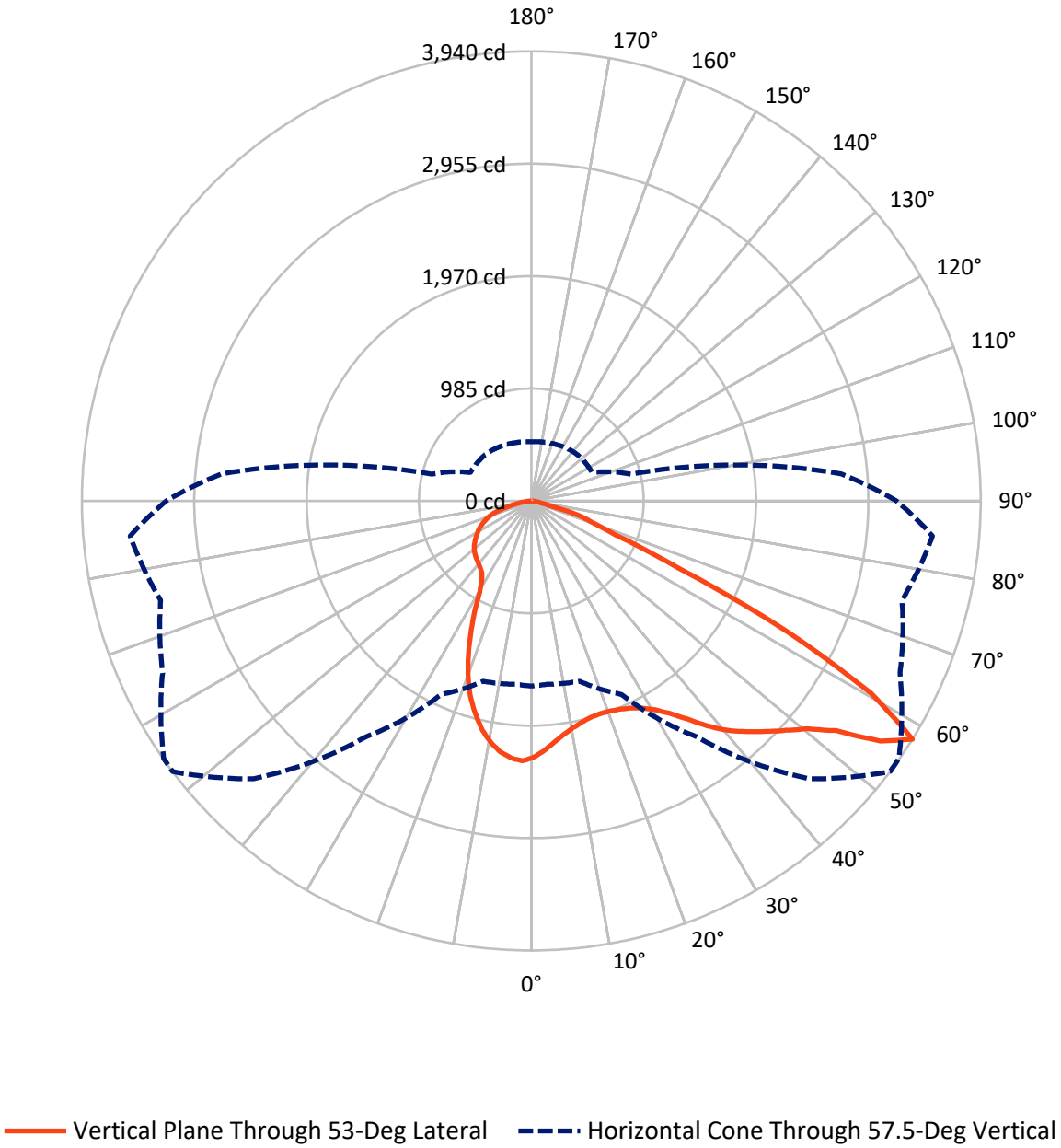
Luminous Intensity Polar Plot



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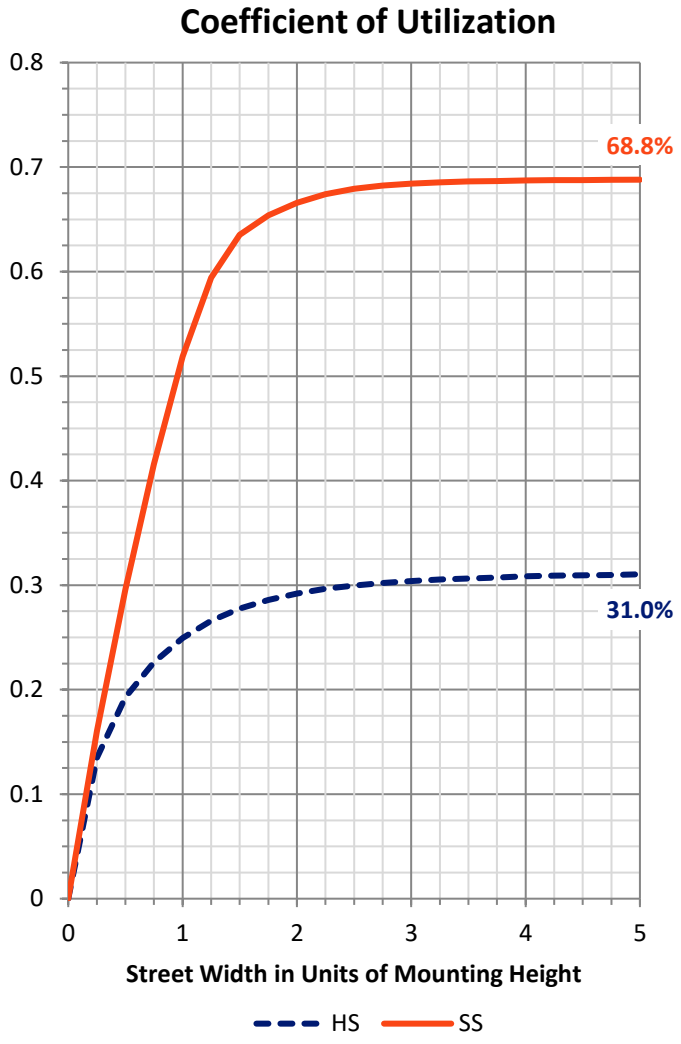
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2200.4	0.0	2200.4
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	4837.2	0.0	4837.2
	% Fixture	68.7	0.0	68.7
Total	Lumens	7037.6	0.0	7037.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	2.9
10°-20°	533.2	7.6
20°-30°	785.5	11.2
30°-40°	1099.5	15.6
40°-50°	1445.4	20.5
50°-60°	1694.8	24.1
60°-70°	998.4	14.2
70°-80°	248.4	3.5
80°-90°	29.1	0.4
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°	7037.6	100.0
0°-180°	7037.6	100.0



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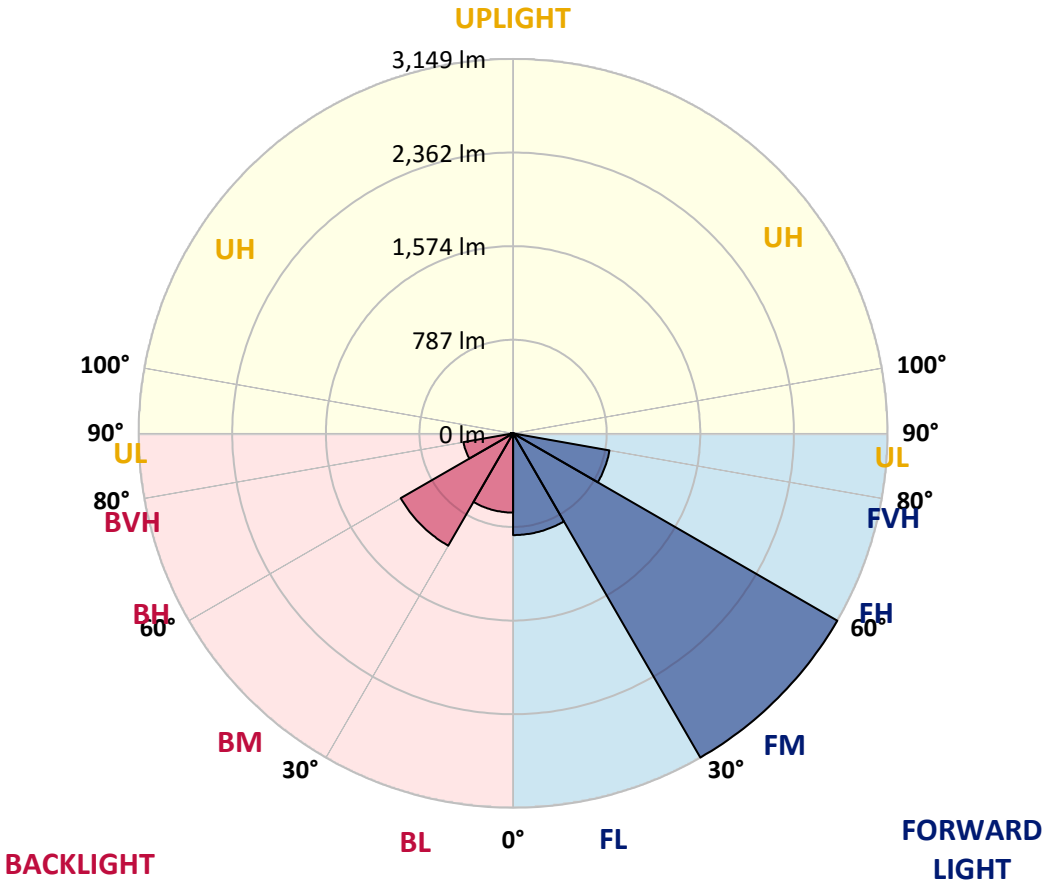
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	855.6	12.2			
FM	(30°-60°)	3148.7	44.7			
FH	(60°-80°)	823.1	11.7			G1/1800
FVH	(80°-90°)	9.8	0.1			G0/10
BL	(0°-30°)	666.3	9.5	B2/1000		
BM	(30°-60°)	1091.1	15.5	B2/2500		
BH	(60°-80°)	423.6	6.0	B1/500		G1/500
BVH	(80°-90°)	19.4	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-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P634510
CATALOG NUMBER: GWS-SA3B-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3
2.5°	2118.2	2124.1	2125.3	2143.6	2144.8	2171.5	2189.2	2185.7	2204.1	2226.6	2244.3
5°	2016.9	2017.5	2023.4	2045.3	2057.2	2092.1	2121.7	2121.7	2157.3	2203.5	2243.1
7.5°	1933.4	1932.8	1938.1	1962.4	1981.9	2024.0	2064.3	2069.0	2118.8	2186.3	2250.8
10°	1855.8	1859.9	1865.8	1895.5	1920.3	1972.5	2020.4	2028.1	2090.9	2174.4	2261.5
12.5°	1806.0	1806.6	1815.5	1848.7	1880.6	1936.3	1986.7	1996.1	2068.4	2163.2	2269.2
15°	1774.0	1774.6	1784.1	1820.8	1858.1	1914.4	1965.9	1976.6	2055.4	2161.4	2284.0
17.5°	1759.8	1759.2	1768.1	1804.8	1845.7	1904.3	1959.4	1972.5	2061.3	2175.0	2310.1
20°	1759.8	1760.4	1765.1	1798.3	1839.8	1902.0	1965.9	1981.9	2084.4	2205.8	2350.4
22.5°	1784.7	1787.1	1789.4	1811.9	1844.5	1905.5	1983.1	2004.4	2134.2	2257.4	2403.1
25°	1833.3	1833.9	1836.2	1854.6	1869.4	1915.6	2011.5	2043.5	2211.8	2332.6	2469.4
27.5°	1898.4	1906.7	1909.1	1920.9	1920.9	1940.5	2056.0	2102.2	2316.6	2441.0	2554.1
30°	1989.6	1992.6	1996.7	2009.8	1995.6	1987.3	2121.1	2180.4	2438.0	2571.9	2656.0
32.5°	2069.6	2076.1	2098.6	2119.9	2094.5	2068.4	2217.1	2287.0	2554.7	2708.1	2764.4
35°	2137.7	2153.7	2196.9	2244.3	2226.6	2200.5	2344.4	2417.3	2650.7	2805.9	2860.4
37.5°	2220.0	2232.5	2291.7	2368.7	2384.7	2372.3	2499.6	2551.8	2714.6	2830.7	2912.5
40°	2303.6	2322.5	2398.9	2505.6	2566.6	2575.4	2643.0	2677.9	2736.6	2782.2	2902.4
42.5°	2388.9	2421.4	2526.3	2650.7	2759.1	2779.2	2763.8	2778.6	2729.5	2715.2	2855.6
45°	2493.1	2531.6	2650.1	2808.8	2951.6	2983.0	2882.3	2868.6	2728.3	2689.8	2826.6
47.5°	2616.3	2654.8	2768.0	2952.8	3135.2	3158.3	3003.7	2978.8	2769.7	2728.9	2865.7
50°	2725.3	2752.0	2853.2	3060.0	3306.4	3320.0	3137.6	3107.4	2872.8	2837.3	2987.7
52.5°	2614.5	2611.6	2718.2	2972.9	3395.2	3559.3	3343.7	3314.7	3071.8	3017.3	3176.7
55°	2218.3	2184.5	2279.9	2530.4	3147.0	3772.0	3713.3	3655.3	3337.2	3198.6	3353.8
57.5°	1621.8	1612.3	1635.4	1870.6	2521.0	3442.6	3939.6	3934.2	3566.4	3364.4	3530.3
60°	1268.2	1254.0	1192.4	1198.9	1718.3	2689.2	3418.9	3575.9	3708.6	3463.9	3653.5
62.5°	1126.0	1115.4	1083.4	995.1	1023.5	1803.0	2506.1	2650.1	3240.6	3059.4	3138.2
65°	932.3	929.4	956.0	952.5	857.7	995.7	1414.5	1559.6	2037.6	2063.1	2037.6
67.5°	677.6	672.3	739.8	873.1	825.7	751.7	788.4	838.7	1044.9	938.2	844.7
70°	440.7	433.0	472.1	630.8	739.2	655.1	568.0	559.8	574.6	357.2	386.2
72.5°	295.6	286.7	286.1	347.1	446.6	441.3	440.1	436.0	389.2	281.9	312.7
75°	164.7	157.6	155.8	149.9	159.9	162.9	173.6	179.5	194.3	213.8	236.9
77.5°	27.8	27.2	34.4	43.8	60.4	77.6	96.0	101.3	125.0	148.1	162.9
80°	15.4	16.0	20.7	25.5	33.8	46.2	59.2	62.8	77.0	89.4	101.3
82.5°	8.3	8.3	10.7	13.6	18.4	24.3	32.0	34.9	44.4	52.1	60.4
85°	3.0	3.0	4.1	5.3	7.7	10.1	12.4	14.2	19.5	26.7	30.2
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	2.4	2.4	3.0	5.3	7.7
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: P634510
CATALOG NUMBER: GWS-SA3B-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3
2.5°	2259.1	2243.1	2265.1	2275.1	2278.7	2281.1	2265.7	2255.0	2251.4	2240.2	2233.7
5°	2267.4	2256.8	2277.5	2277.5	2262.7	2247.3	2215.9	2194.0	2178.6	2160.2	2157.3
7.5°	2281.7	2274.0	2285.2	2262.1	2224.8	2183.3	2128.8	2086.2	2051.8	2029.3	2029.9
10°	2300.6	2291.1	2282.2	2230.7	2162.6	2086.2	2002.7	1940.5	1883.6	1857.5	1843.3
12.5°	2313.0	2299.4	2262.1	2176.8	2076.7	1974.2	1856.4	1764.0	1681.6	1644.3	1641.3
15°	2328.4	2303.6	2228.9	2106.9	1967.7	1827.9	1676.3	1547.8	1436.4	1378.3	1375.4
17.5°	2348.6	2307.7	2189.2	2026.9	1852.8	1646.7	1455.9	1294.2	1175.8	1130.8	1138.5
20°	2377.0	2312.5	2144.2	1938.1	1710.1	1440.5	1203.0	1054.3	1008.7	1005.8	999.9
22.5°	2409.0	2315.4	2094.5	1838.6	1537.1	1220.8	993.9	930.5	930.0	944.8	948.3
25°	2445.1	2317.8	2038.2	1722.5	1349.9	1001.6	879.0	860.1	874.9	902.7	906.3
27.5°	2491.3	2322.5	1970.1	1595.1	1150.9	865.4	815.6	810.9	828.7	854.7	853.5
30°	2559.5	2339.7	1897.8	1448.8	946.5	800.8	777.1	777.7	784.8	797.3	799.1
32.5°	2628.8	2366.4	1827.3	1284.2	829.3	764.1	753.4	752.3	752.3	757.6	758.8
35°	2694.5	2396.6	1750.9	1112.4	772.4	742.8	735.7	732.1	730.3	729.2	727.4
37.5°	2731.2	2411.4	1676.3	943.0	742.2	728.6	721.5	716.7	710.2	705.5	704.3
40°	2715.2	2394.2	1589.8	816.2	723.8	714.9	706.6	700.1	691.2	687.1	684.7
42.5°	2661.9	2340.9	1495.6	756.4	709.0	700.1	690.1	679.4	673.5	669.9	669.3
45°	2605.7	2276.3	1381.9	721.5	694.8	684.1	672.3	660.4	653.9	652.2	651.6
47.5°	2603.9	2244.3	1261.1	693.6	677.6	667.0	652.2	640.3	633.2	630.8	628.5
50°	2682.1	2276.9	1124.8	669.3	659.9	648.6	632.0	619.0	610.1	607.1	606.5
52.5°	2844.4	2399.5	1002.8	645.0	636.2	623.1	609.5	596.5	585.8	580.5	579.9
55°	3019.7	2555.3	927.0	620.2	608.3	597.1	584.6	570.4	558.6	550.3	549.1
57.5°	*3200.9*	*2725.3*	*903.9*	*588.8*	*579.9*	*572.2*	*557.4*	*542.0*	*528.4*	*520.7*	*518.9*
60°	3350.2	2871.6	947.1	555.6	550.9	540.8	527.2	512.4	502.9	497.0	495.8
62.5°	2804.7	2337.9	764.7	519.5	519.5	508.8	493.4	482.7	476.2	472.1	470.9
65°	1779.9	1447.7	521.8	483.3	482.7	468.5	455.5	448.4	445.4	438.9	437.7
67.5°	775.4	661.6	446.0	446.6	444.2	428.8	415.8	410.5	404.6	397.5	396.9
70°	402.2	409.9	399.2	405.7	401.6	383.2	370.8	362.5	350.1	343.0	343.6
72.5°	324.6	332.9	344.7	354.8	345.9	331.1	311.6	301.5	285.5	277.8	278.4
75°	247.6	256.5	267.7	278.4	271.3	252.9	240.5	230.4	212.1	203.2	204.9
77.5°	170.6	175.3	189.0	188.4	186.0	180.7	162.3	150.5	131.5	120.8	122.0
80°	106.0	109.0	115.5	118.5	117.3	110.2	95.4	86.5	75.2	68.7	69.3
82.5°	64.0	65.7	71.7	72.3	71.7	66.3	55.1	48.6	41.5	37.9	37.9
85°	32.6	33.8	37.3	37.3	33.8	28.4	25.5	22.5	18.4	16.6	16.6
87.5°	8.9	8.9	11.3	9.5	7.7	7.1	3.6	3.0	1.2	0.6	0.6
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

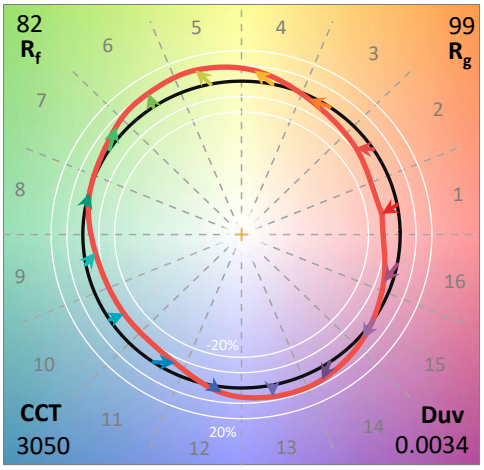
Test Information

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

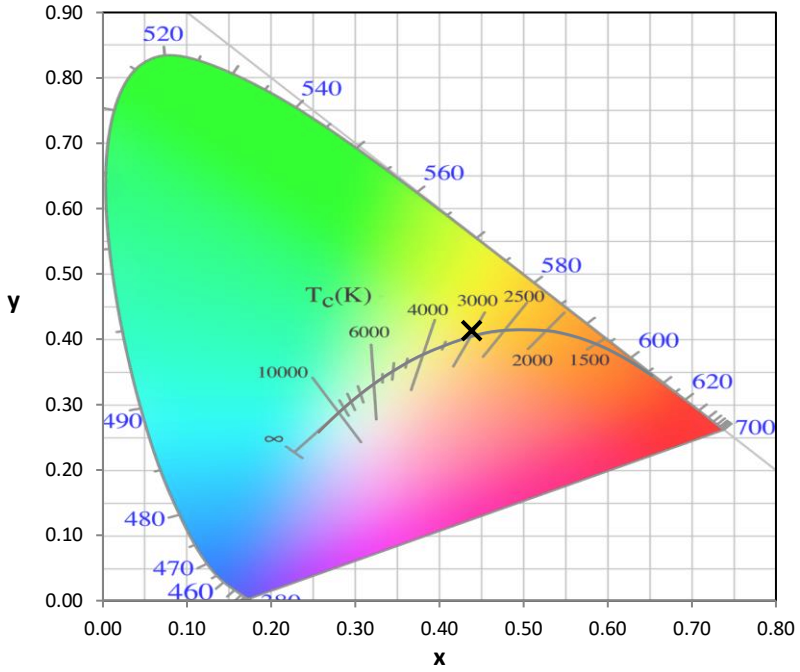
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

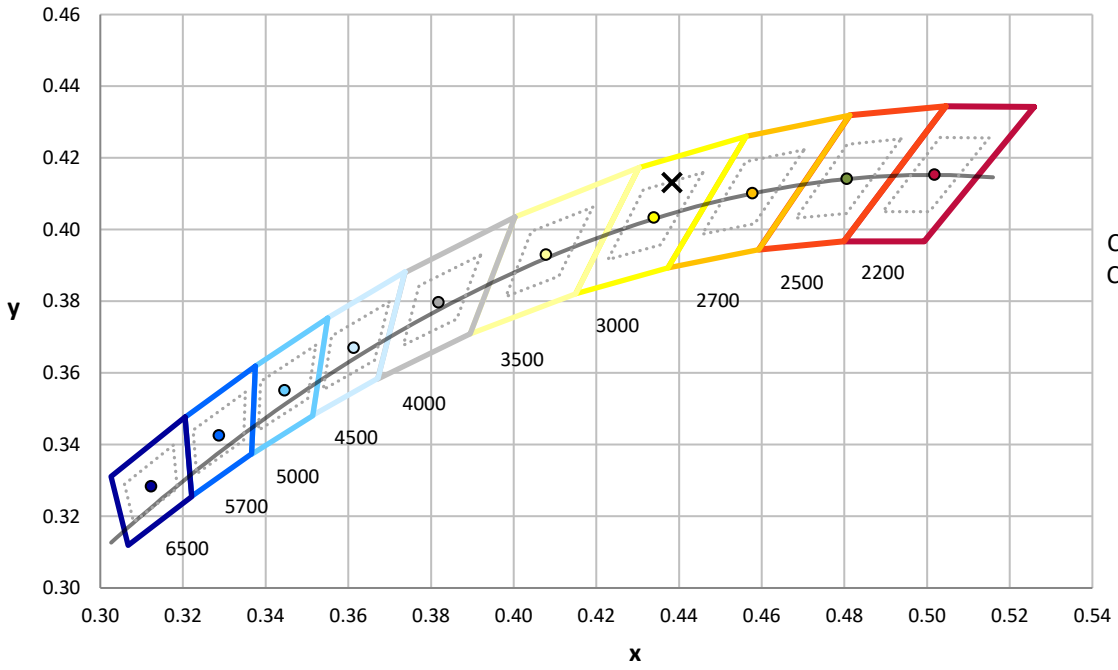
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

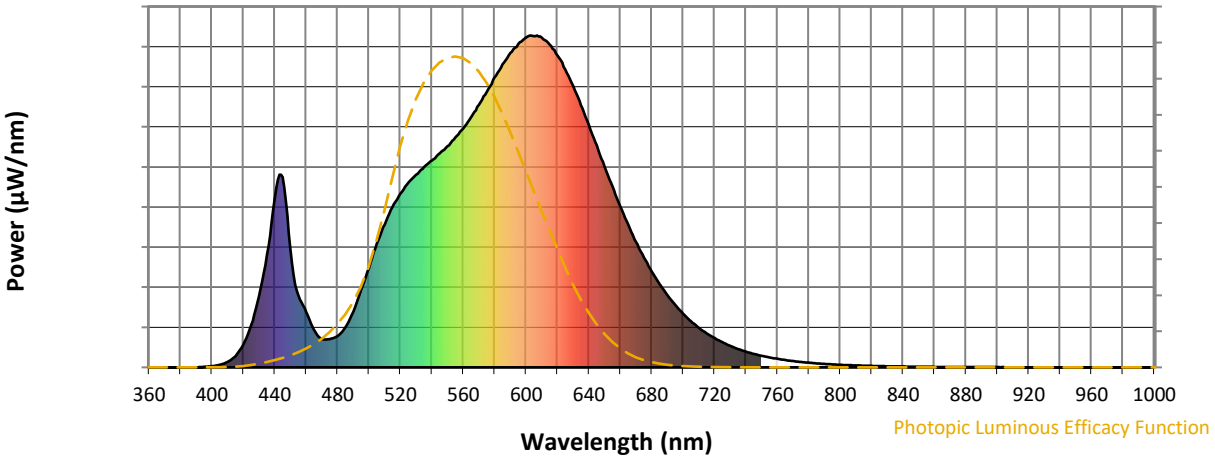


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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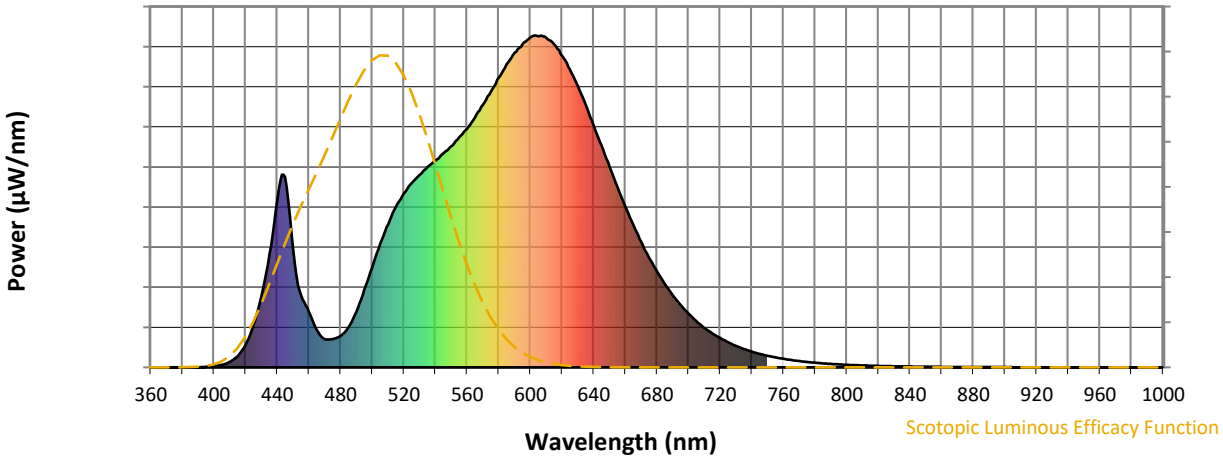
Scotopic Flux vs. Wavelength



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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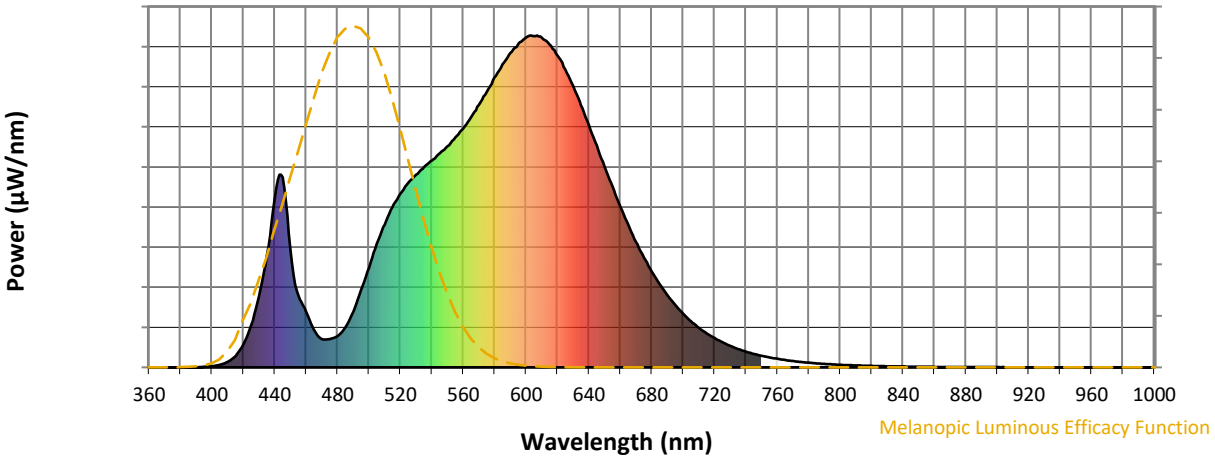
Melanopic Flux vs. Wavelength



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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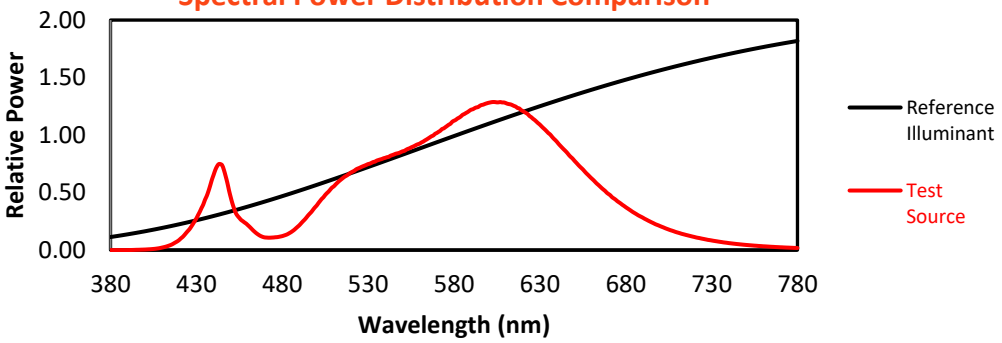
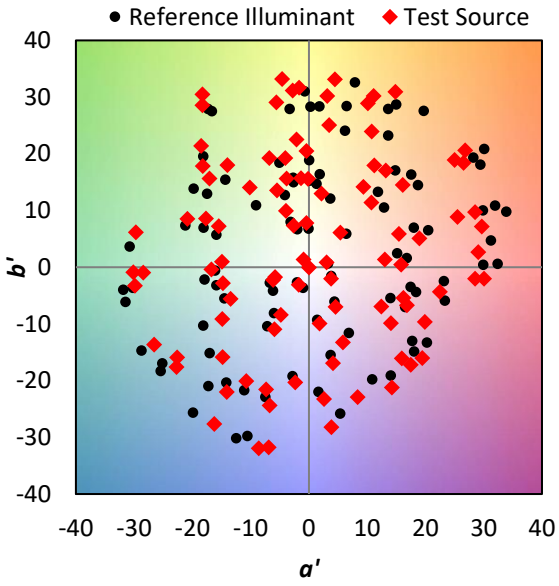
Summary

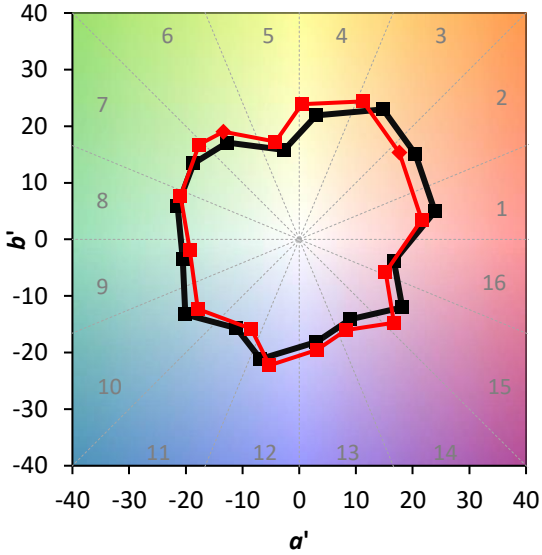
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

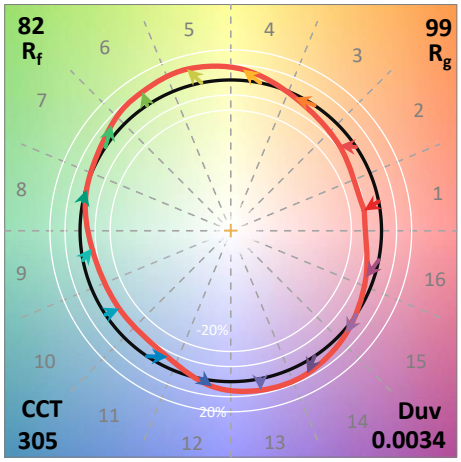
Spectral Power Distribution Comparison

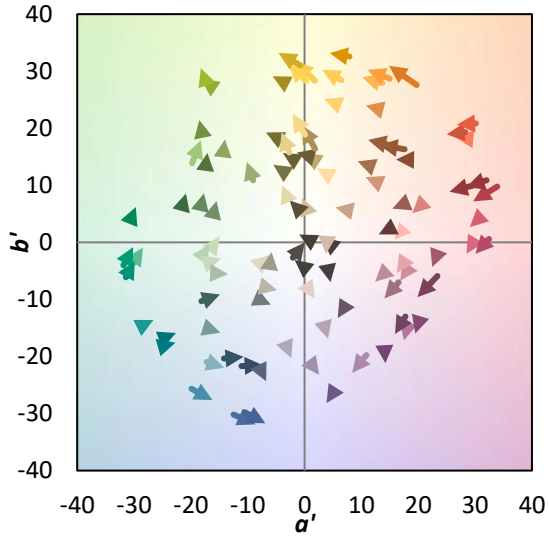


Color Vector Graphics









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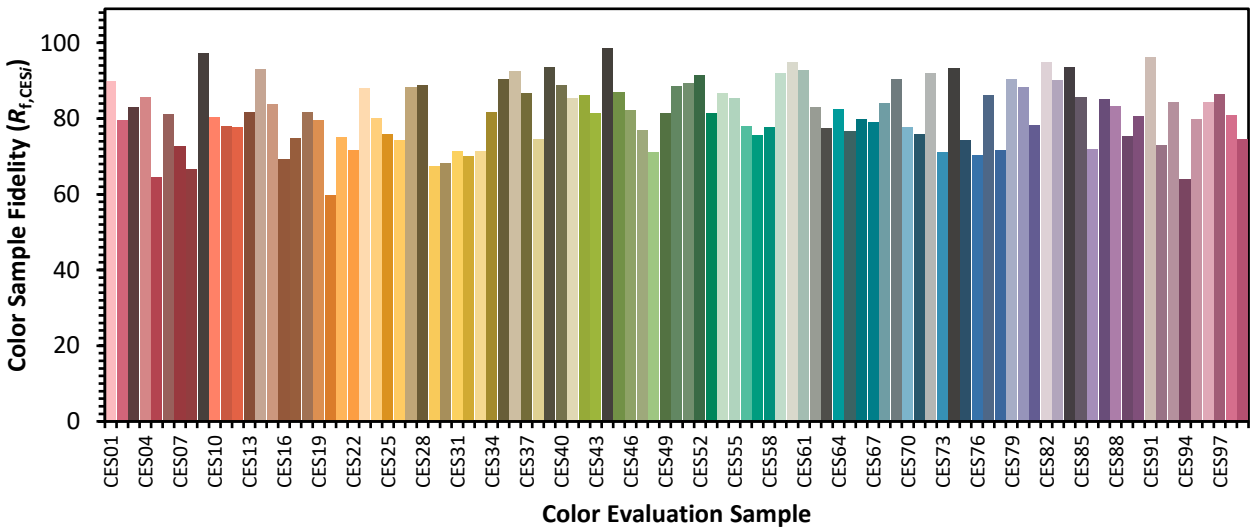
Individual Sample Fidelity Index ($R_{f,i}$)

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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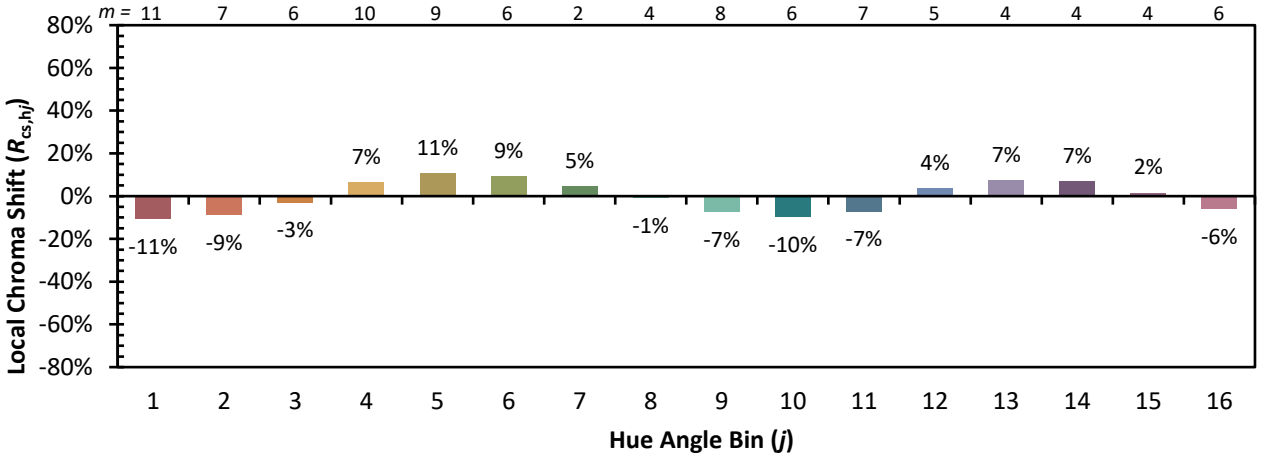
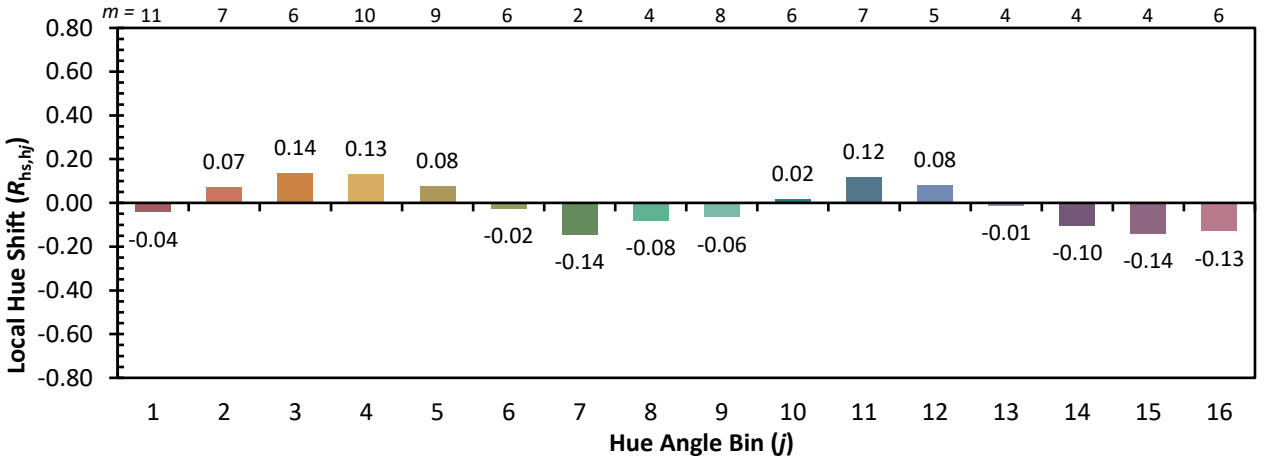
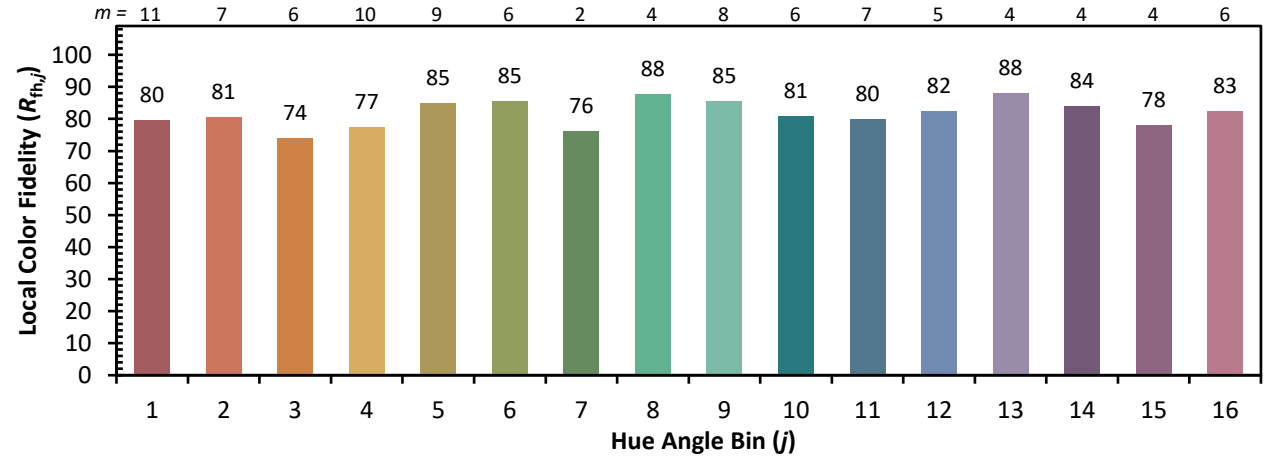
Color Rendition by Hue-Angle Bin







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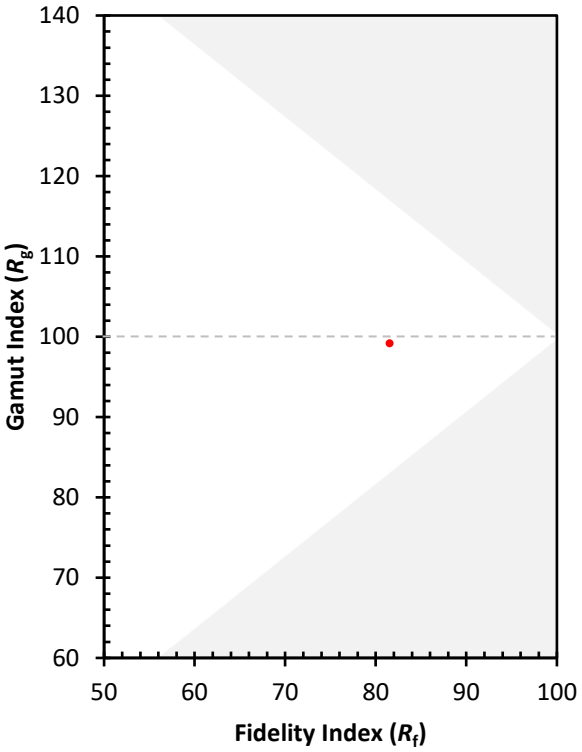
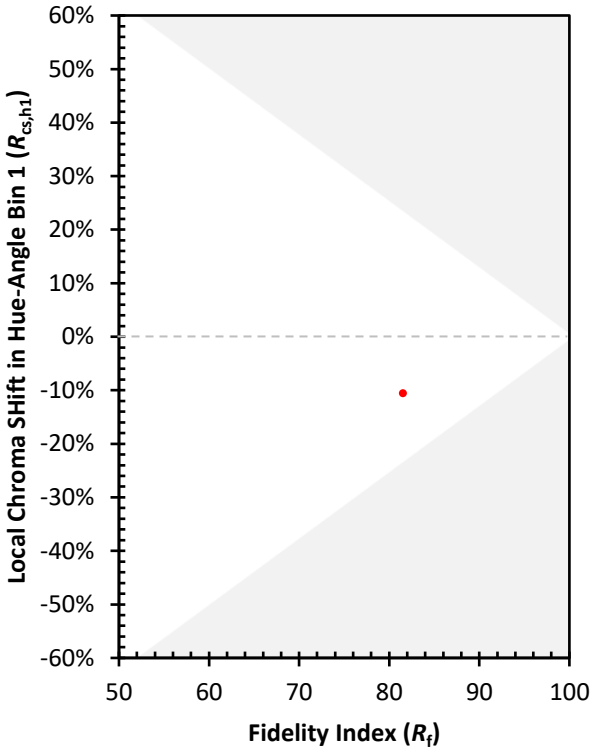
Measure Comparisons





(END OF REPORT)