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: P633031

Luminaire Tested: GWS-SA2D-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:	P633031
	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-SA2D-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:	9088.2 lumens
Efficiency:	N/A
Efficacy:	110.7 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	82.1
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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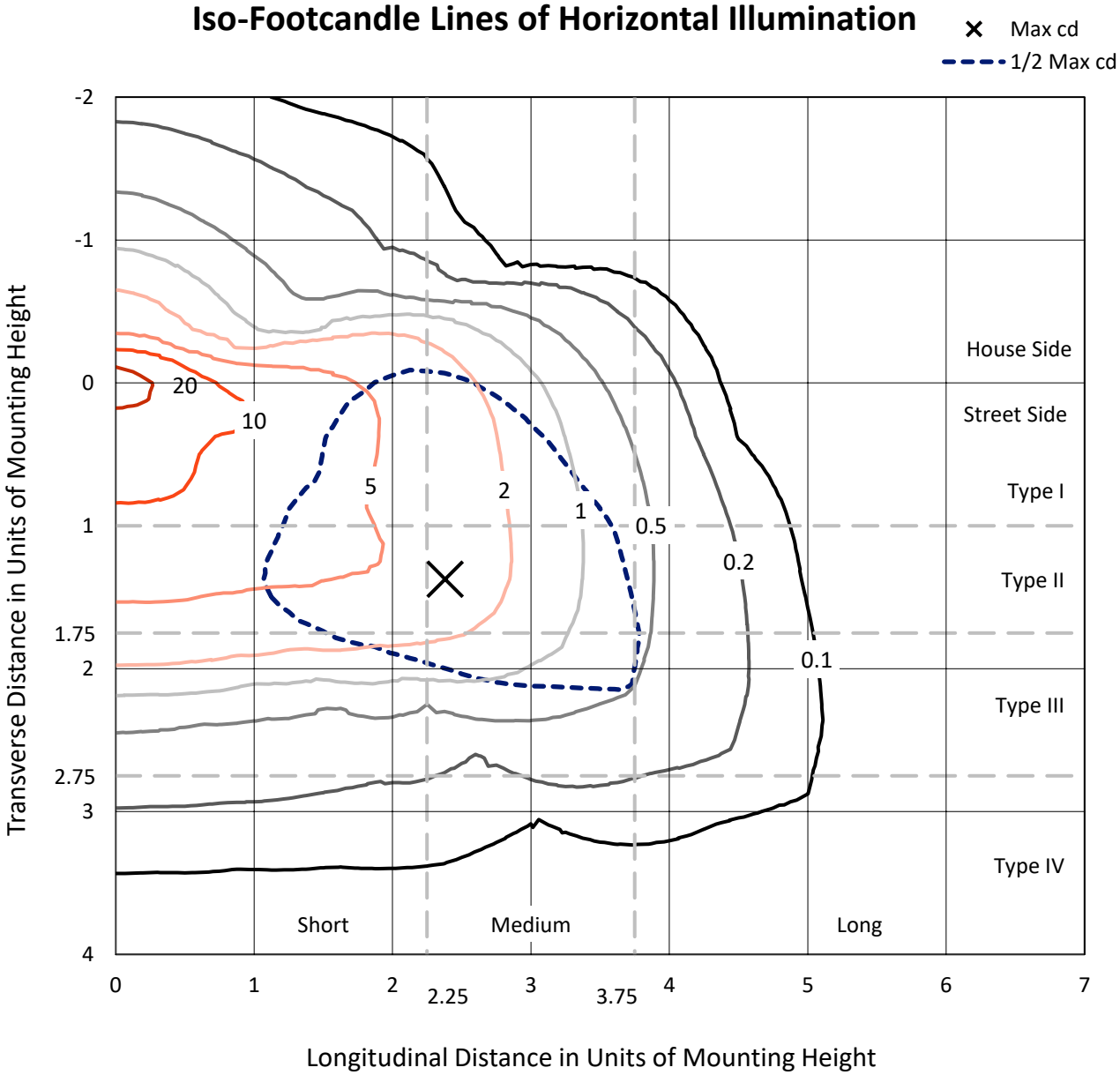
REPORT NUMBER: P633031
CATALOG NUMBER: GWS-SA2D-830-U-SL3-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 25.1 fc
Type III - Medium - N/A

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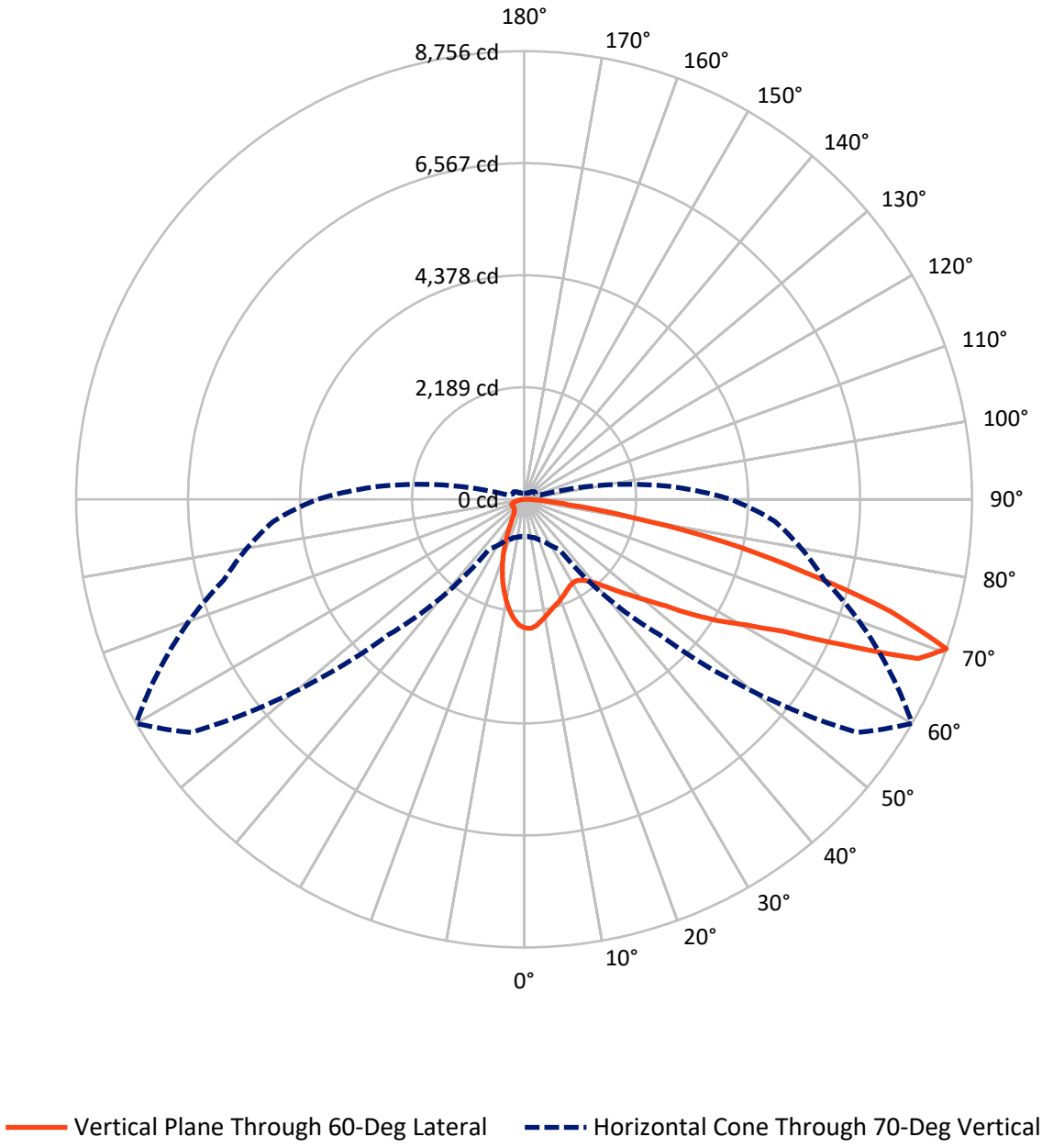
Luminous Intensity Polar Plot



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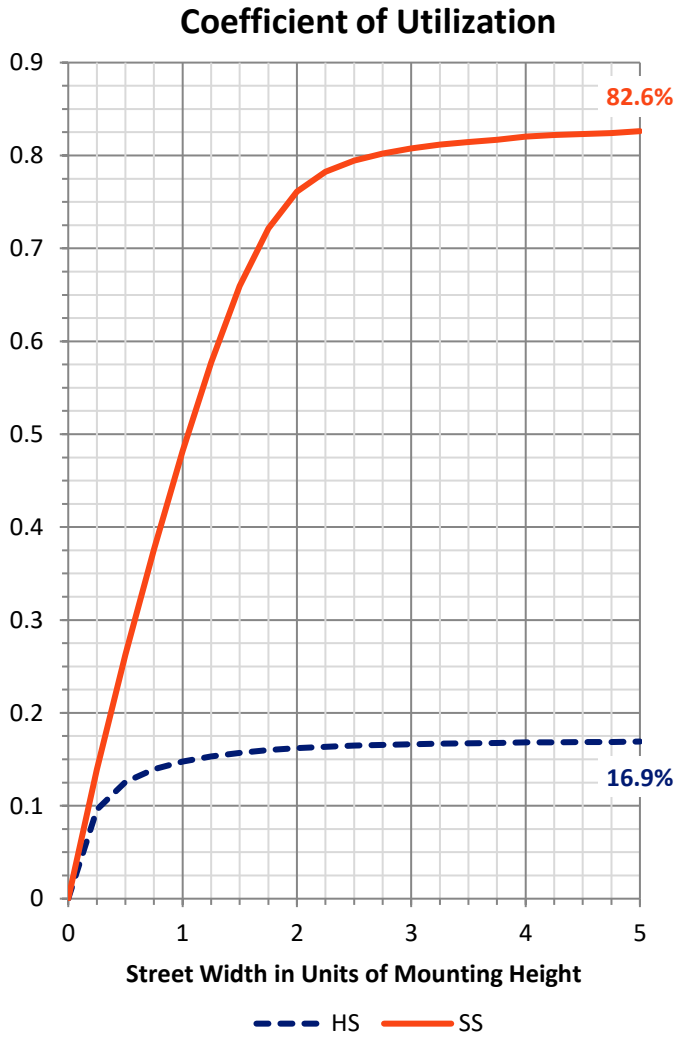
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1554.3	0.0	1554.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	7533.9	0.0	7533.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	9088.2	0.0	9088.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.8	2.4
10°-20°	485.6	5.3
20°-30°	621.9	6.8
30°-40°	817.4	9.0
40°-50°	1185.9	13.0
50°-60°	1850.2	20.4
60°-70°	2422.3	26.7
70°-80°	1339.5	14.7
80°-90°	148.6	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°	9088.2	100.0
0°-180°	9088.2	100.0



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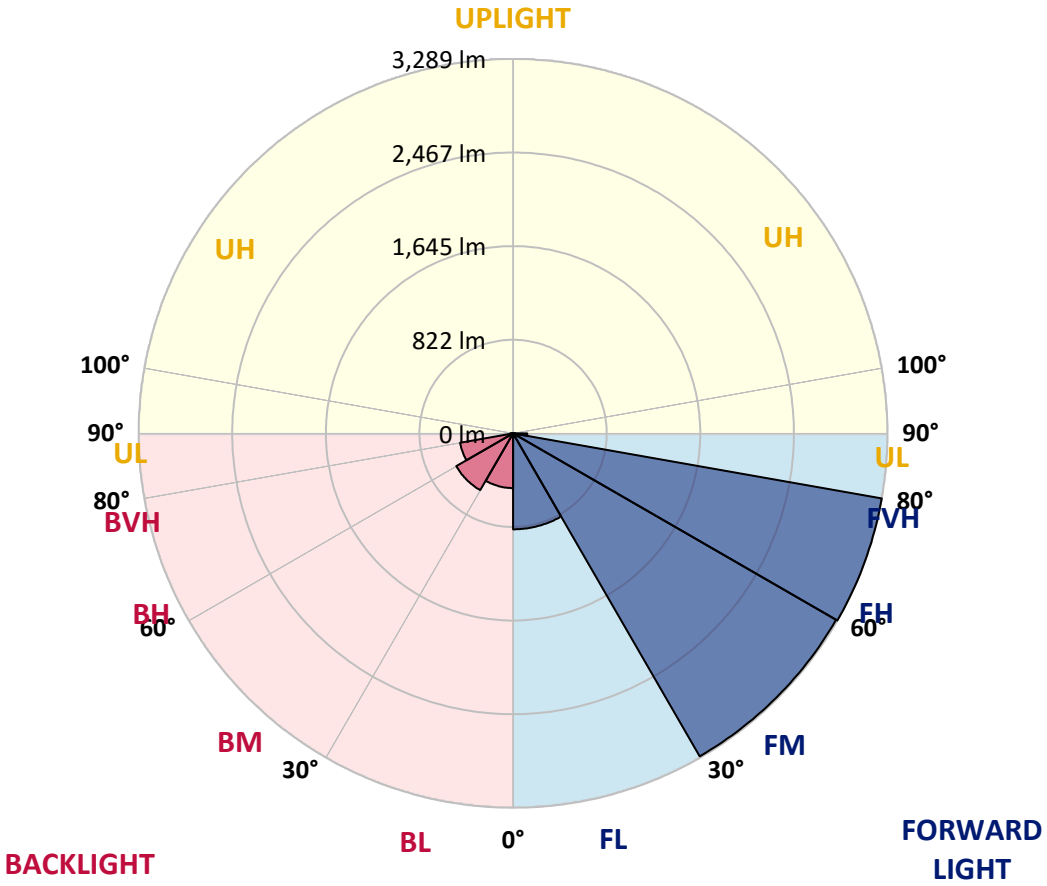
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	843.4	9.3			
FM	(30°-60°)	3277.2	36.1			
FH	(60°-80°)	3289.4	36.2			G2/5000
FVH	(80°-90°)	123.9	1.4			G2/225
BL	(0°-30°)	480.9	5.3	B1/500		
BM	(30°-60°)	576.3	6.3	B1/1000		
BH	(60°-80°)	472.3	5.2	B1/500		G1/500
BVH	(80°-90°)	24.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Medium



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Scaled Data Report

REPORT NUMBER: P633031
CATALOG NUMBER: GWS-SA2D-830-U-SL3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8
2.5°	2479.6	2482.2	2489.6	2500.2	2510.8	2516.2	2529.5	2525.5	2522.8	2517.5	2510.8
5°	2369.9	2375.2	2381.8	2402.4	2425.7	2444.3	2474.3	2477.6	2478.9	2481.6	2470.9
7.5°	2230.2	2231.6	2247.5	2274.8	2305.4	2337.3	2387.2	2401.1	2413.1	2426.4	2417.7
10°	2076.0	2079.3	2091.3	2130.5	2183.0	2230.2	2297.4	2320.7	2345.9	2375.2	2363.2
12.5°	1949.6	1950.3	1969.6	2011.5	2068.6	2132.5	2216.3	2244.2	2277.4	2323.3	2312.7
15°	1849.2	1849.2	1867.2	1903.1	1968.9	2044.0	2143.8	2179.7	2224.9	2286.7	2268.1
17.5°	1769.4	1770.1	1781.4	1819.3	1877.8	1960.9	2079.3	2127.8	2177.7	2259.5	2231.6
20°	1727.5	1724.2	1726.2	1749.5	1799.3	1879.8	2014.8	2071.3	2138.5	2240.9	2198.3
22.5°	1725.5	1719.5	1710.9	1712.9	1742.2	1808.7	1945.6	2014.1	2098.6	2225.6	2164.4
25°	1759.4	1752.8	1737.5	1720.2	1717.6	1757.5	1880.5	1958.3	2057.3	2218.9	2131.8
27.5°	1816.6	1812.0	1792.0	1766.1	1738.8	1737.5	1831.3	1912.4	2027.4	2225.6	2108.5
30°	1892.4	1884.5	1871.8	1838.6	1797.3	1754.8	1812.0	1887.8	2007.5	2246.8	2098.6
32.5°	1978.2	1973.6	1961.6	1928.3	1884.5	1816.6	1827.3	1893.1	2007.5	2284.1	2100.6
35°	2069.3	2068.6	2068.6	2046.7	1998.2	1913.7	1887.8	1938.3	2038.1	2343.9	2121.8
37.5°	2157.7	2157.1	2178.4	2186.3	2131.1	2040.1	1990.8	2028.7	2105.2	2432.4	2174.4
40°	2229.6	2232.2	2278.8	2318.7	2288.1	2203.6	2134.5	2153.8	2214.3	2558.0	2266.1
42.5°	2302.0	2309.4	2379.2	2449.7	2461.6	2388.5	2318.7	2330.0	2370.5	2724.3	2403.1
45°	2381.2	2384.5	2482.2	2580.7	2638.5	2595.3	2538.1	2553.4	2562.7	2929.7	2607.2
47.5°	2457.6	2466.3	2592.6	2727.6	2837.3	2833.3	2801.4	2796.8	2798.8	3179.8	2848.6
50°	2562.0	2574.7	2723.0	2885.9	3046.8	3120.6	3129.9	3094.7	3080.0	3457.7	3149.2
52.5°	2760.2	2760.2	2893.2	3053.4	3269.5	3452.4	3514.9	3457.0	3410.5	3751.6	3468.4
55°	3008.2	3018.9	3124.6	3254.2	3528.2	3801.5	4012.9	3949.1	3817.5	4071.5	3802.8
57.5°	3118.6	3131.9	3299.5	3500.9	3866.7	4198.5	4491.7	4469.1	4276.9	4403.9	4149.9
60°	2919.1	2947.0	3177.8	3515.6	4173.2	4838.8	5045.6	4979.8	4705.2	4753.0	4526.3
62.5°	2435.0	2465.6	2721.6	3193.1	4130.6	5531.0	5918.7	5676.0	5239.8	5193.9	5027.7
65°	1452.9	1451.6	1759.4	2384.5	3606.0	5723.2	7300.4	6847.6	6065.6	5799.0	5543.6
67.5°	923.6	921.6	986.1	1263.4	2399.8	5252.4	8188.8	8306.5	7187.4	6243.8	5586.2
70°	728.8	728.1	774.7	901.0	1186.9	3737.7	7941.4	8756.0	7865.0	6074.3	4918.6
72.5°	531.3	532.6	604.4	754.7	915.6	1876.5	6430.7	7491.9	7233.9	5362.1	3993.0
75°	381.7	383.7	426.9	577.8	844.5	1026.0	4276.3	5633.4	5503.8	4298.2	2746.9
77.5°	242.7	245.4	283.3	405.0	682.2	828.5	2592.6	3977.0	3661.9	2421.7	976.8
80°	148.3	156.9	188.8	301.9	545.3	621.7	1296.0	2095.2	1833.9	664.3	328.5
82.5°	76.5	83.1	113.7	186.8	375.7	545.9	733.4	880.4	567.9	277.9	174.9
85°	23.9	27.9	39.9	75.8	178.9	338.5	485.4	437.5	260.7	131.0	81.1
87.5°	6.0	6.0	6.6	6.6	7.3	15.3	93.8	99.1	69.2	41.2	33.2
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: P633031
CATALOG NUMBER: GWS-SA2D-830-U-SL3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8
2.5°	2497.5	2481.6	2474.9	2474.3	2457.6	2433.7	2417.7	2406.4	2399.8	2398.5	2398.5
5°	2453.0	2432.4	2405.1	2384.5	2339.9	2294.7	2256.8	2235.5	2210.9	2207.6	2207.0
7.5°	2393.8	2363.9	2312.0	2254.2	2176.4	2101.2	2037.4	1994.2	1950.9	1943.0	1940.3
10°	2330.0	2289.4	2201.0	2099.2	1982.9	1870.5	1772.7	1696.3	1645.7	1609.8	1603.2
12.5°	2266.8	2212.9	2083.3	1931.7	1772.1	1618.5	1471.5	1346.5	1256.1	1203.6	1194.2
15°	2207.6	2132.5	1954.9	1761.4	1554.0	1343.9	1135.7	973.5	846.5	801.3	790.6
17.5°	2153.8	2060.0	1830.6	1585.2	1326.6	1051.9	815.2	670.9	596.5	573.8	568.5
20°	2099.9	1985.5	1704.3	1399.7	1085.2	777.3	595.8	528.0	500.0	491.4	488.7
22.5°	2042.0	1903.7	1566.6	1216.8	841.2	581.8	487.4	457.5	448.8	449.5	448.8
25°	1984.2	1820.6	1422.3	1018.0	626.4	472.1	425.6	414.3	416.3	422.2	423.6
27.5°	1936.3	1746.8	1280.7	799.9	489.4	406.3	384.3	383.7	391.0	399.0	400.3
30°	1901.7	1681.0	1141.0	615.1	403.0	361.1	352.4	356.4	365.1	371.0	373.0
32.5°	1877.1	1624.5	992.1	483.4	353.1	329.1	325.2	329.1	334.5	340.5	341.8
35°	1868.5	1583.2	845.8	394.3	319.2	305.9	303.2	305.2	307.9	311.2	312.5
37.5°	1887.8	1562.6	692.9	343.1	298.6	290.6	286.6	285.3	285.9	287.3	287.9
40°	1945.0	1571.9	567.9	313.2	285.3	277.9	271.3	268.6	268.0	269.3	268.6
42.5°	2043.4	1611.2	477.4	295.9	274.6	264.0	256.7	254.0	254.0	257.3	257.3
45°	2187.7	1688.3	412.3	283.3	265.3	252.0	244.0	242.7	245.4	250.7	251.3
47.5°	2399.1	1801.3	373.0	274.0	256.7	241.4	233.4	232.7	238.1	246.7	247.4
50°	2649.8	1964.2	351.8	267.3	250.7	232.7	224.8	225.4	231.4	240.7	242.7
52.5°	2951.7	2186.3	353.1	264.6	247.4	227.4	219.4	218.1	224.1	233.4	235.4
55°	3263.6	2456.3	379.0	265.3	242.7	224.8	214.1	209.5	214.8	221.4	222.1
57.5°	3606.7	2760.9	443.5	264.0	236.7	222.1	209.5	198.8	202.1	206.1	208.1
60°	3993.7	3119.3	582.5	266.6	234.1	216.1	200.1	186.2	185.5	188.2	188.8
62.5°	4511.0	3606.7	738.8	271.3	240.0	208.8	186.2	171.6	168.9	170.2	170.9
65°	4906.6	3839.4	689.5	267.3	252.7	203.5	172.9	157.6	152.3	150.9	150.9
67.5°	4745.7	3531.5	480.1	256.7	258.7	204.1	162.2	143.0	136.3	133.0	132.3
70°	*4038.2*	*2868.6*	*333.8*	*246.0*	*252.0*	*202.8*	*150.9*	*131.0*	*122.3*	*117.7*	*117.0*
72.5°	3190.4	2190.3	270.0	224.8	228.7	182.9	134.3	117.7	110.4	104.4	104.4
75°	2053.4	1336.5	225.4	200.1	186.8	142.3	116.4	105.1	97.7	91.8	91.8
77.5°	690.9	496.0	174.9	169.6	139.6	107.1	97.7	90.4	84.4	79.1	78.5
80°	280.6	235.4	128.3	128.3	97.7	81.8	76.5	73.1	69.2	62.5	62.5
82.5°	162.9	143.0	89.8	77.8	65.2	56.5	53.2	49.9	49.9	45.2	45.2
85°	78.5	79.1	53.9	47.9	37.2	32.6	31.3	29.3	28.6	25.9	25.3
87.5°	42.6	43.2	27.3	21.3	14.6	12.6	10.6	10.0	9.3	8.6	8.6
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

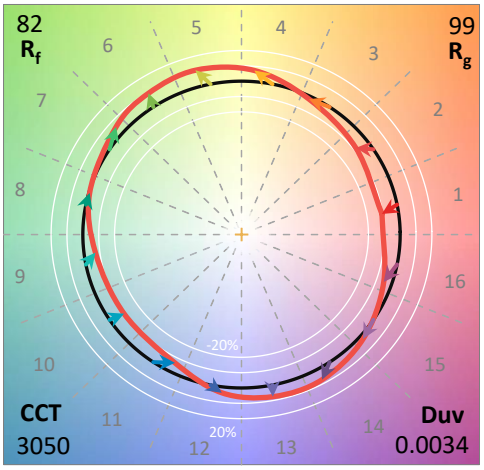
Test Information

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

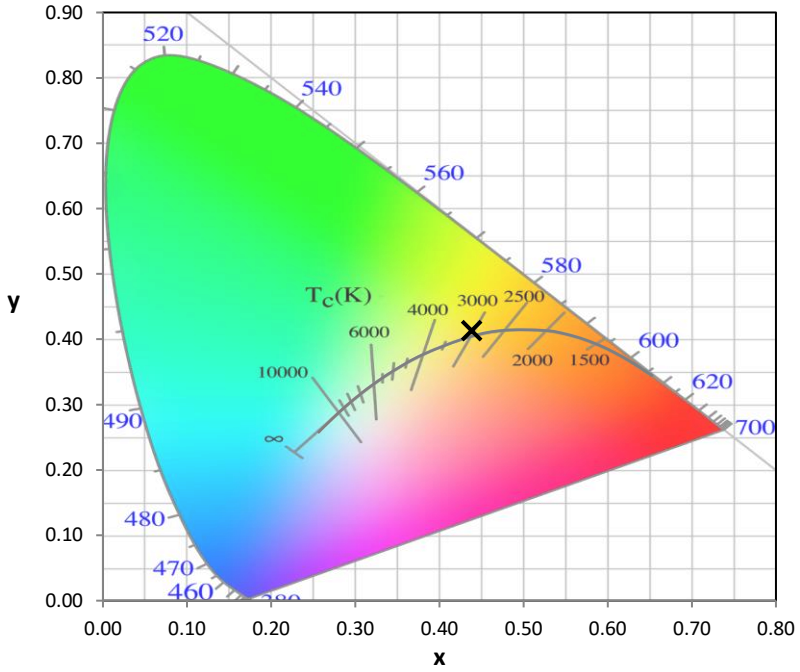
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

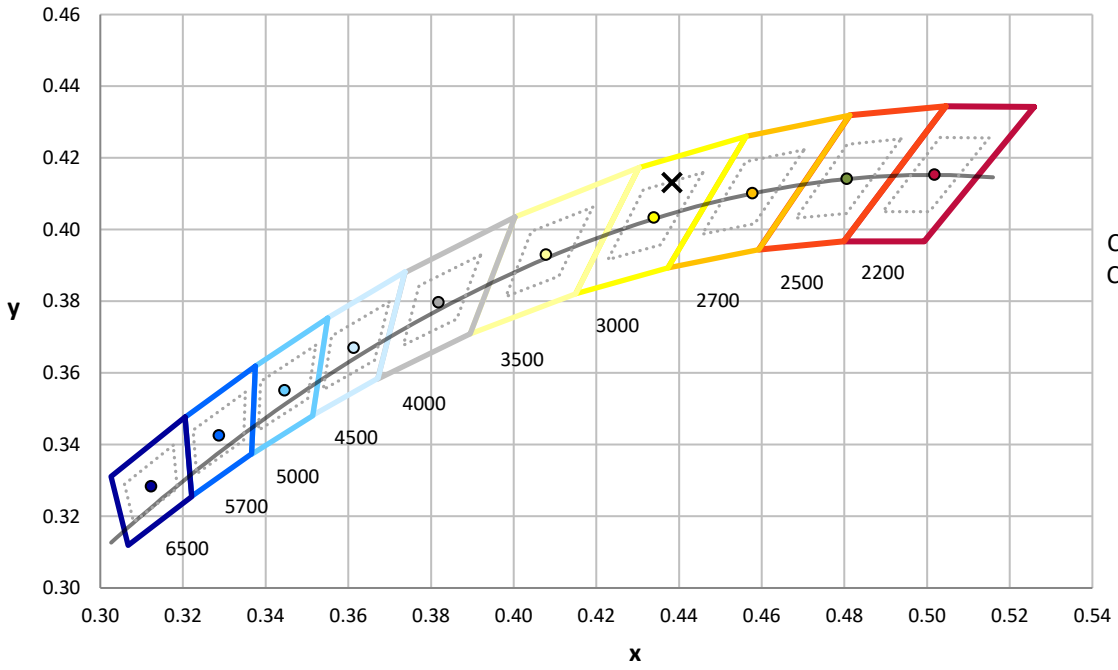
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

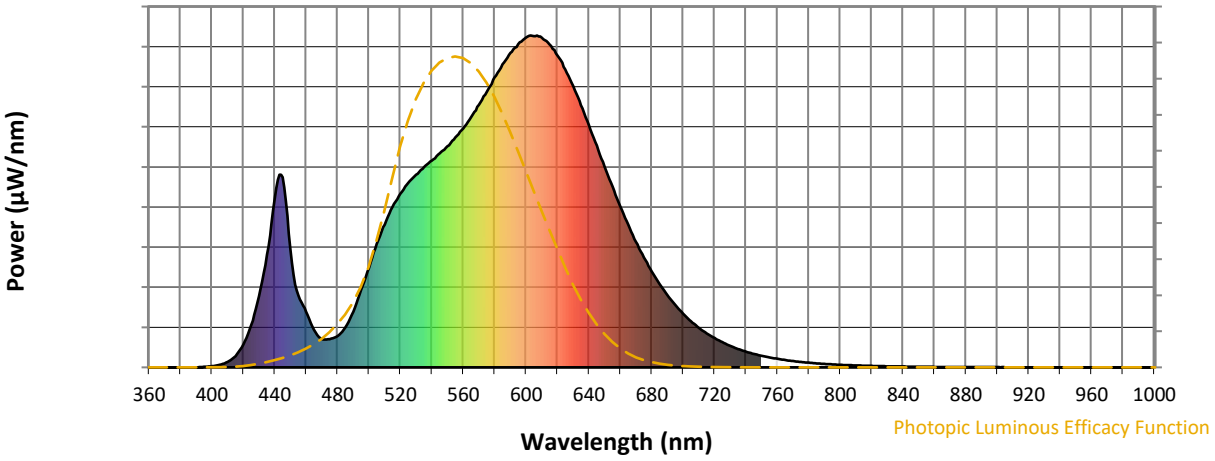


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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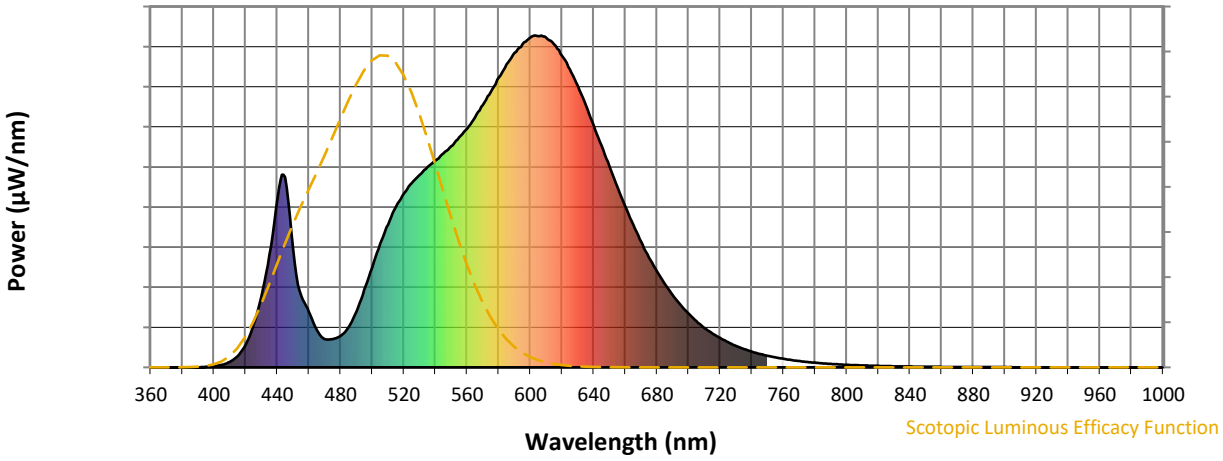
Scotopic Flux vs. Wavelength



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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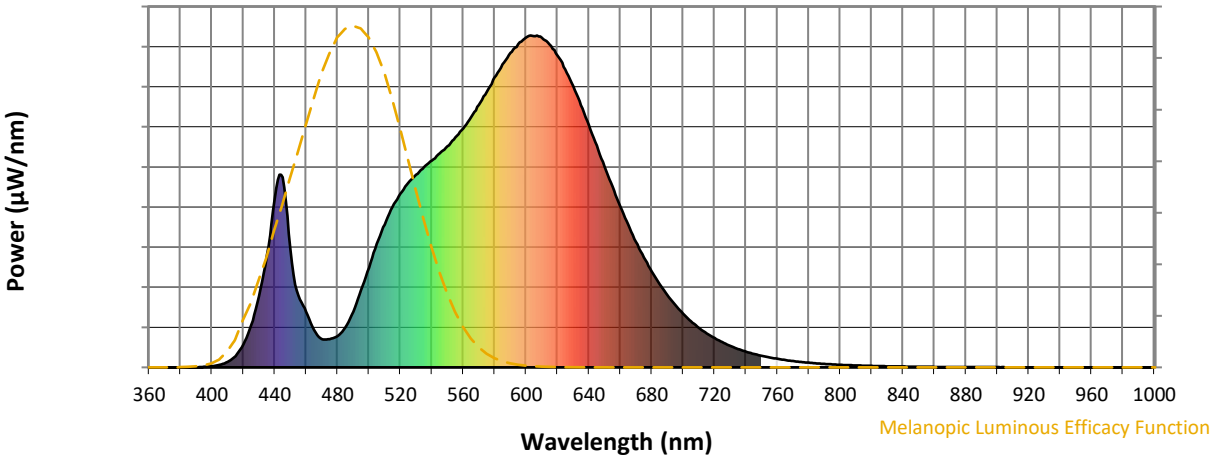
Melanopic Flux vs. Wavelength



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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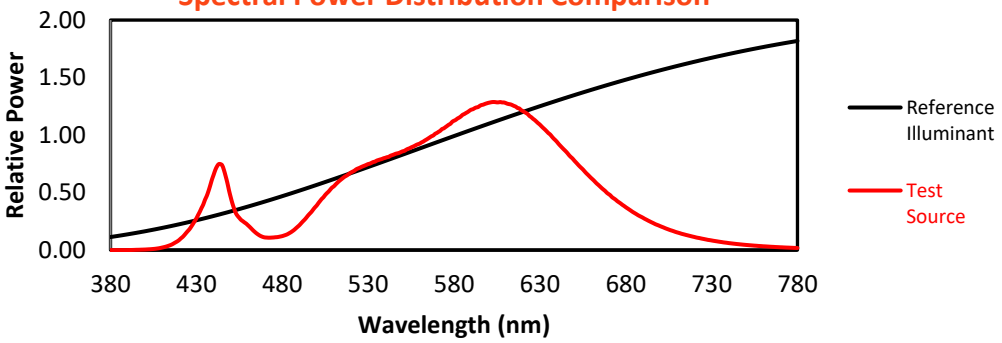
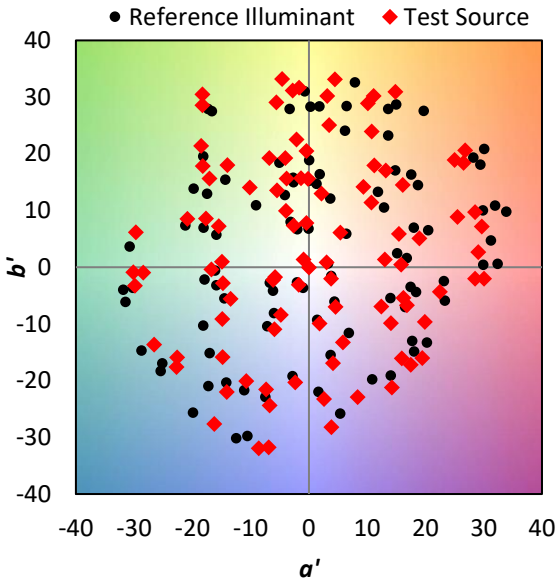
Summary

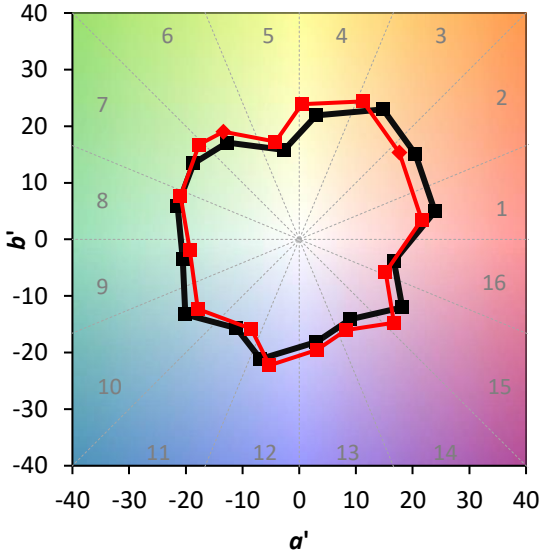
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

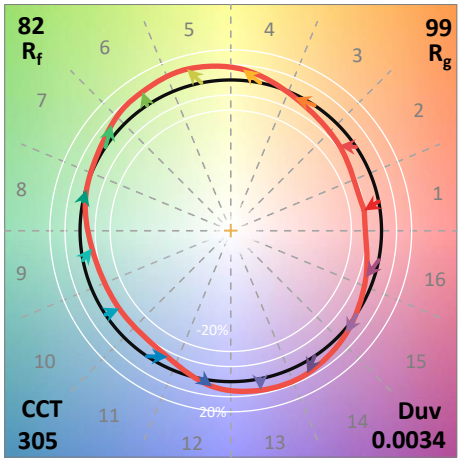
Spectral Power Distribution Comparison

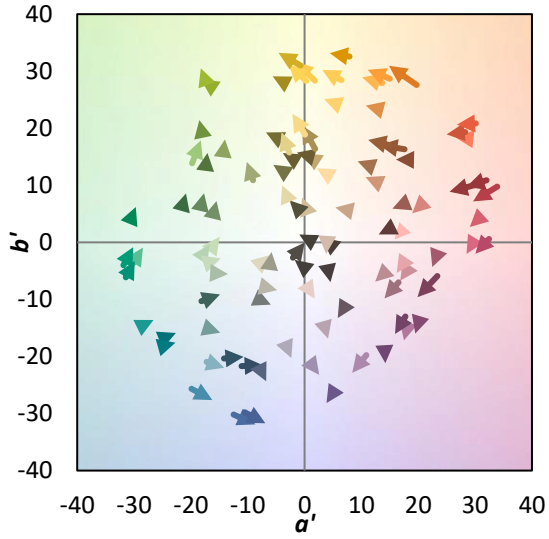


Color Vector Graphics









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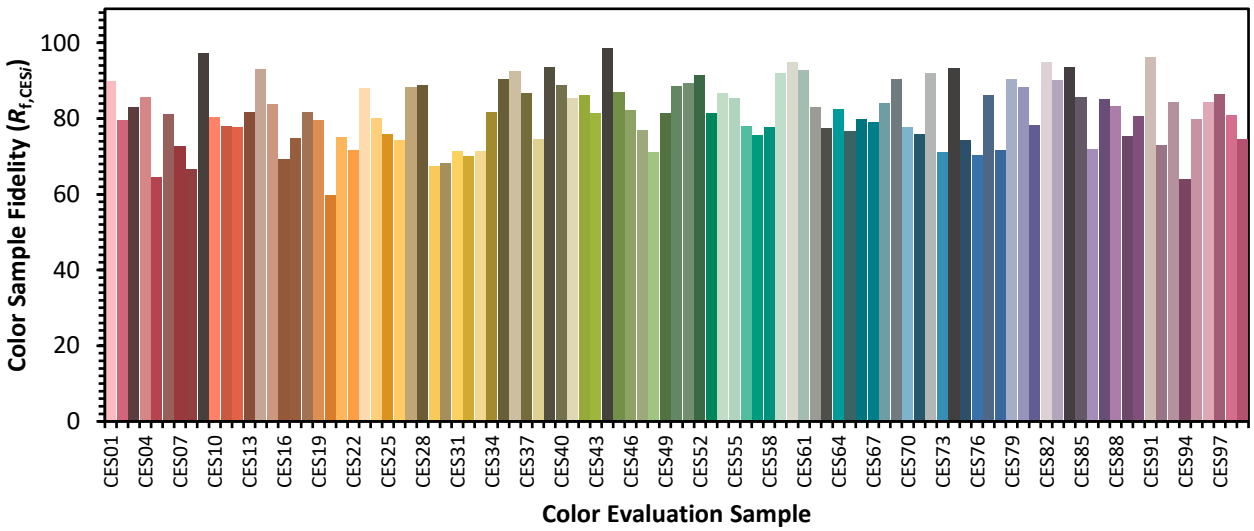
Individual Sample Fidelity Index ($R_{f,i}$)

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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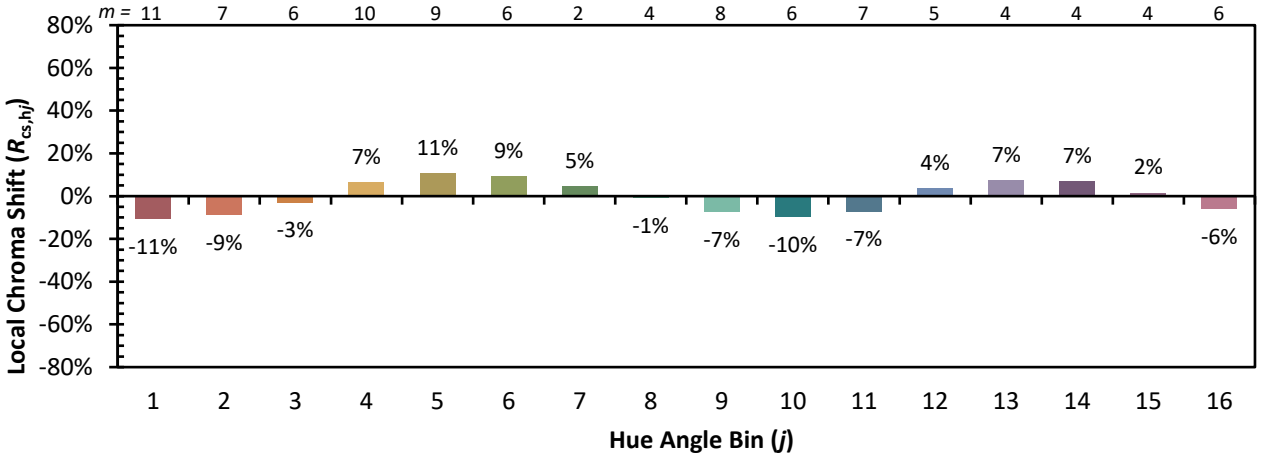
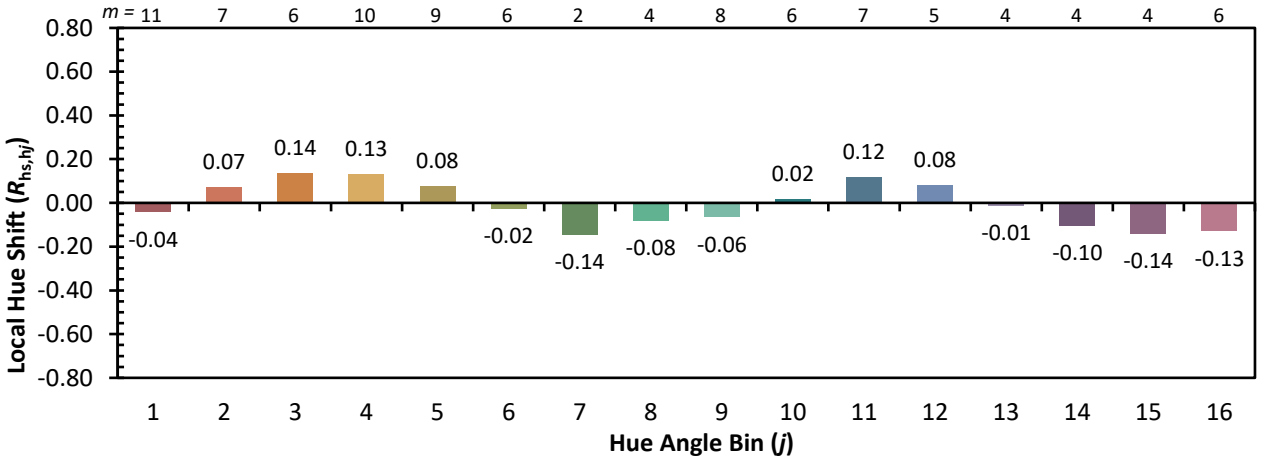
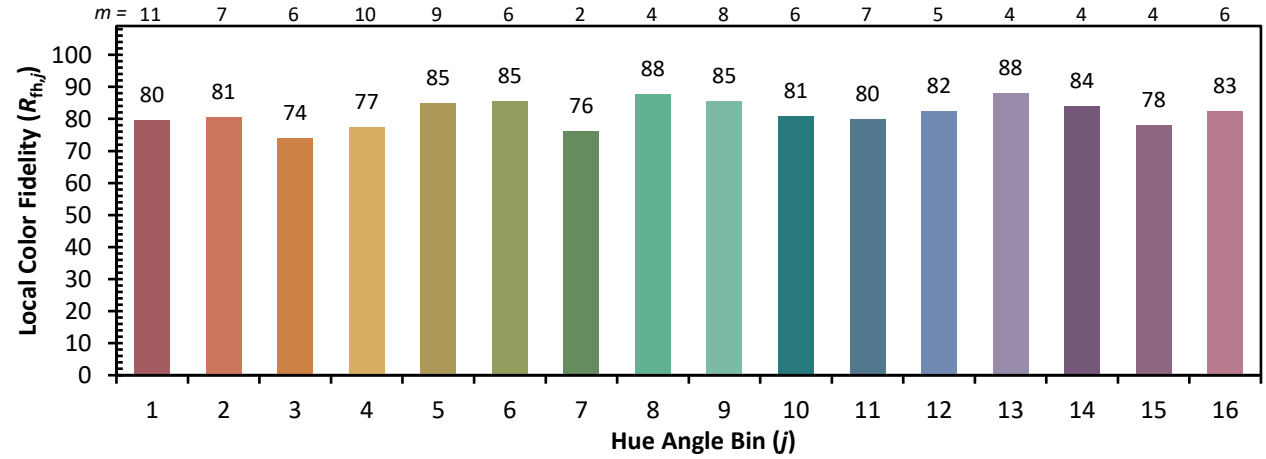
Color Rendition by Hue-Angle Bin







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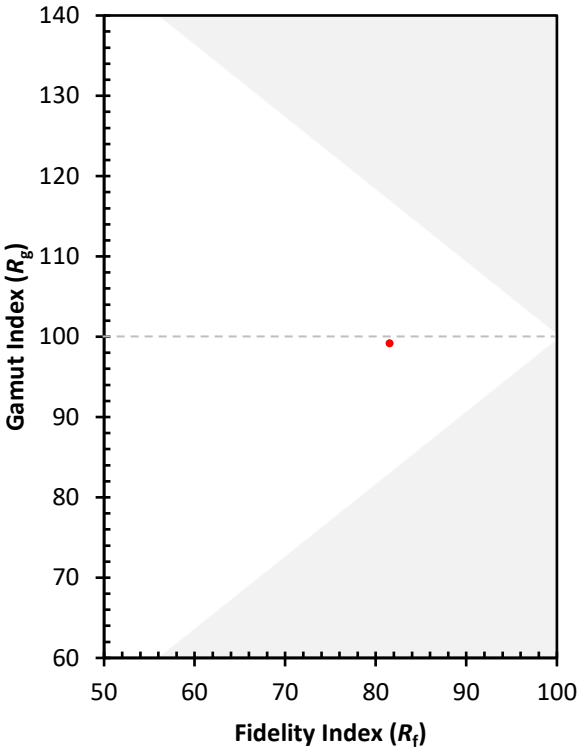
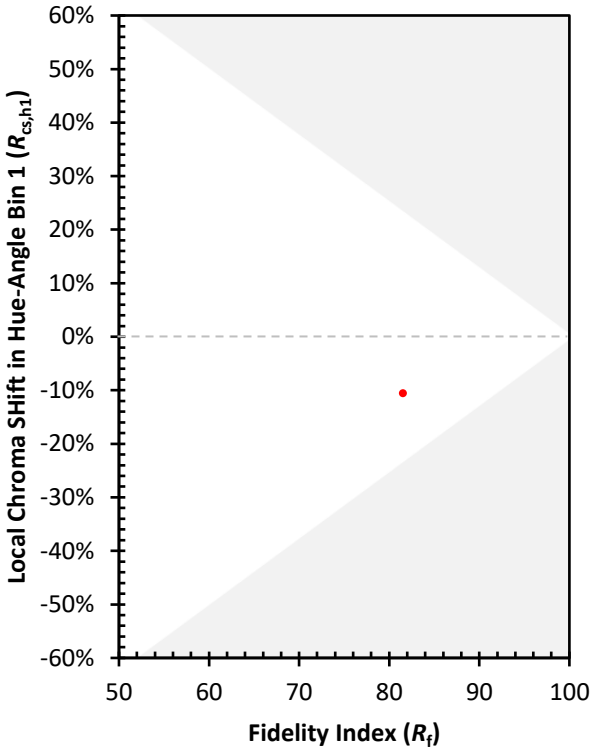
Measure Comparisons





(END OF REPORT)