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: P633522

Luminaire Tested: GWS-SA2E-830-U-SL2-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:	P633522
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2E-830-U-SL2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11390.3 lumens
Efficiency:	N/A
Efficacy:	105.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
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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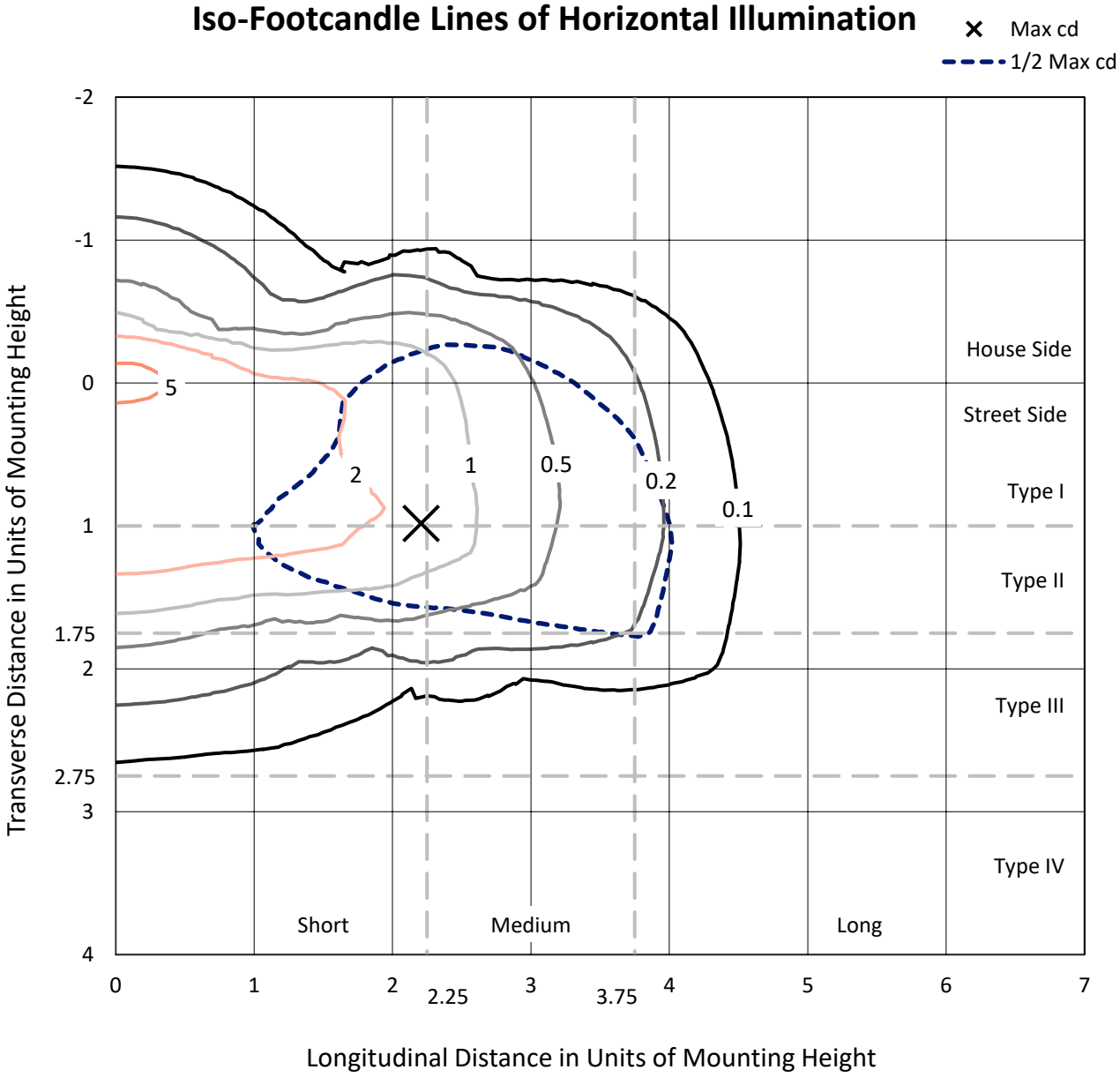
REPORT NUMBER: P633522
CATALOG NUMBER: GWS-SA2E-830-U-SL2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
Type II - Short - N/A

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REPORT NUMBER: P633522
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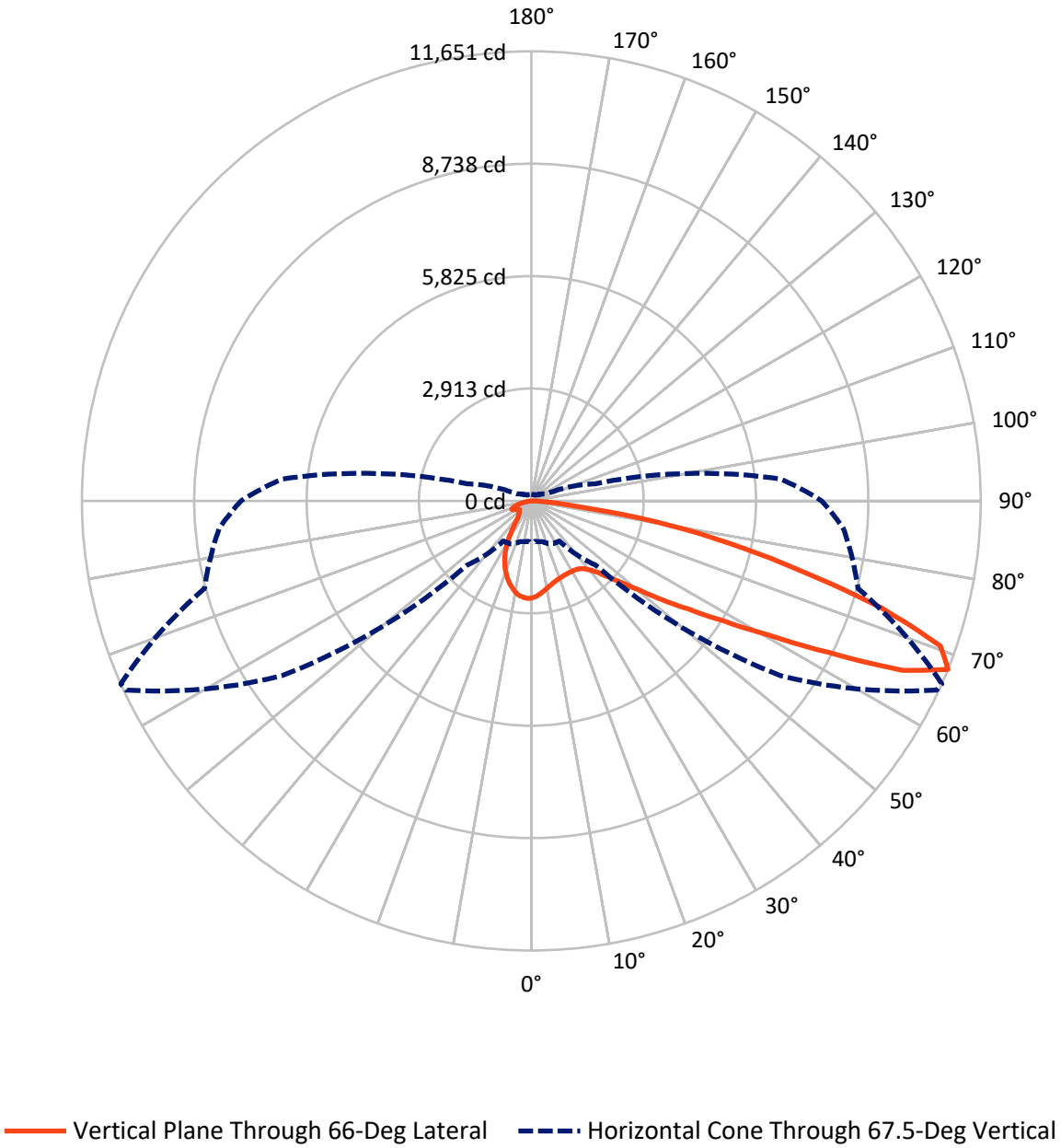
Luminous Intensity Polar Plot



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REPORT NUMBER: P633522
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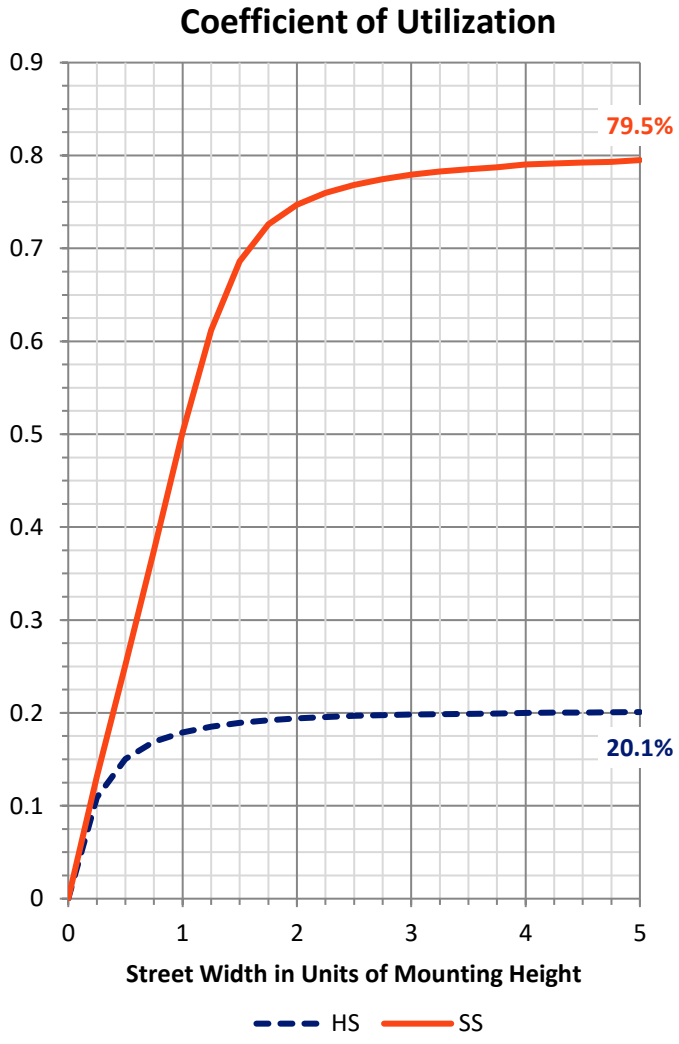
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2311.4	0.0	2311.4
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	9079.0	0.0	9079.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	11390.3	0.0	11390.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.9	1.9
10°-20°	542.9	4.8
20°-30°	746.2	6.6
30°-40°	1020.2	9.0
40°-50°	1545.8	13.6
50°-60°	2403.0	21.1
60°-70°	2925.6	25.7
70°-80°	1782.2	15.6
80°-90°	203.6	1.8
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°	11390.3	100.0
0°-180°	11390.3	100.0



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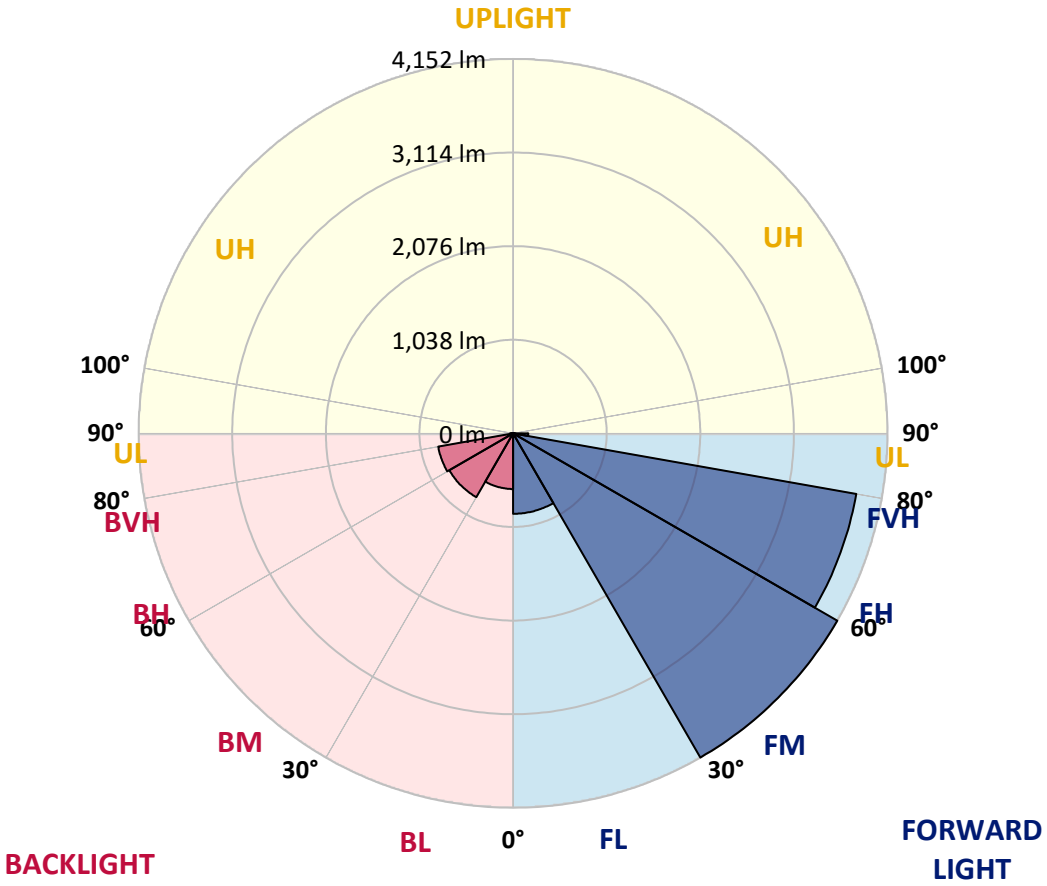
REPORT NUMBER: P633522
CATALOG NUMBER: GWS-SA2E-830-U-SL2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	892.5	7.8			
FM	(30°-60°)	4152.2	36.5			
FH	(60°-80°)	3865.0	33.9			G2/5000
FVH	(80°-90°)	169.2	1.5			G2/225
BL	(0°-30°)	617.5	5.4	B2/1000		
BM	(30°-60°)	816.8	7.2	B1/1000		
BH	(60°-80°)	842.8	7.4	B2/1000		G2/1000
BVH	(80°-90°)	34.3	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 II Short



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Scaled Data Report

REPORT NUMBER: P633522
CATALOG NUMBER: GWS-SA2E-830-U-SL2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2516.9	2516.9	2516.9	2516.9	2516.9	2516.9	2516.9	2516.9	*2516.9*	2516.9	2516.9
2.5°	2357.4	2365.7	2360.7	2392.3	2394.0	2433.8	2456.3	2475.4	*2477.0*	2502.0	2518.6
5°	2196.2	2201.2	2201.2	2231.1	2251.0	2304.2	2355.7	2410.6	*2414.7*	2474.6	2520.3
7.5°	2065.7	2070.7	2067.4	2107.3	2133.0	2192.0	2257.7	2341.6	*2349.9*	2446.3	2526.1
10°	1963.5	1961.9	1970.2	2006.7	2040.0	2110.6	2183.7	2279.3	*2291.7*	2413.9	2532.7
12.5°	1893.7	1895.4	1900.4	1938.6	1974.3	2044.1	2119.7	2223.6	*2236.9*	2376.5	2529.4
15°	1860.5	1857.2	1861.3	1896.2	1930.3	1991.8	2069.9	2177.1	*2190.4*	2343.3	2530.2
17.5°	1853.0	1850.5	1849.7	1874.6	1900.4	1957.7	2032.5	2141.3	*2155.5*	2321.7	2535.2
20°	1876.3	1873.0	1863.8	1874.6	1885.4	1933.6	2005.9	2115.6	*2131.4*	2307.5	2545.2
22.5°	1940.3	1934.4	1920.3	1907.0	1892.9	1922.0	1989.3	2096.5	*2112.3*	2298.4	2555.2
25°	2037.5	2032.5	2017.5	1987.6	1936.1	1931.1	1986.0	2088.2	*2104.0*	2291.7	2559.3
27.5°	2171.3	2163.8	2148.8	2105.6	2021.7	1965.2	1998.4	2087.3	*2102.3*	2284.3	2555.2
30°	2330.0	2325.0	2316.7	2264.3	2152.1	2037.5	2026.7	2094.0	*2105.6*	2280.1	2546.8
32.5°	2491.2	2486.2	2492.8	2467.9	2330.0	2157.1	2088.2	2112.3	*2120.6*	2279.3	2539.4
35°	2633.3	2639.1	2687.3	2691.4	2556.0	2319.2	2185.4	2154.6	*2156.3*	2295.9	2542.7
37.5°	2782.0	2804.4	2867.6	2921.6	2808.6	2533.6	2330.0	2234.4	*2232.7*	2338.3	2563.5
40°	2978.9	2988.9	3069.5	3170.9	3100.3	2827.7	2535.2	2364.9	*2353.2*	2424.7	2619.1
42.5°	3170.9	3195.0	3323.8	3440.1	3416.8	3159.3	2793.6	2560.1	*2539.4*	2577.6	2733.8
45°	3415.2	3438.5	3583.0	3732.6	3775.0	3534.0	3124.4	2837.7	*2816.9*	2807.8	2944.0
47.5°	3659.5	3683.6	3813.2	4029.3	4178.0	4002.7	3554.8	3204.1	*3170.1*	3134.3	3261.5
50°	3824.0	3852.3	3976.1	4235.3	4584.3	4587.6	4065.0	3684.4	*3641.2*	3584.7	3708.5
52.5°	3818.2	3836.5	3954.5	4253.6	4876.8	5259.9	4748.0	4296.0	*4261.1*	4138.1	4246.1
55°	3518.2	3545.6	3664.5	4038.4	4908.4	5897.2	5751.8	5017.2	*4954.9*	4734.7	4853.6
57.5°	2915.8	2939.1	3058.7	3519.9	4628.4	6223.8	7026.5	5936.3	*5850.7*	5384.5	5521.6
60°	2201.2	2172.9	2229.4	2633.3	3958.6	6232.1	8151.6	7182.7	*7039.8*	6079.2	6193.9
62.5°	1651.9	1623.7	1636.1	1750.0	2684.0	5728.5	8793.1	8887.8	*8651.8*	6863.6	6841.2
65°	1305.4	1289.6	1325.4	1403.5	1564.7	4362.5	8798.0	10731.7	*10582.9*	7772.7	7505.1
67.5°	*1063.6*	*1053.6*	*1090.2*	*1234.8*	*1268.9*	*2344.1*	*7889.0*	*11592.5*	*11650.7*	*8768.1*	*8120.8*
70°	856.7	841.7	899.1	1089.4	1179.9	1418.4	5651.3	11153.8	*11247.7*	9361.4	7947.2
72.5°	591.6	592.5	621.5	882.5	1139.2	1224.8	3196.6	9287.5	*9491.1*	8823.8	6986.6
75°	398.9	402.2	410.5	582.5	1049.5	1188.3	1703.4	7031.5	*7175.2*	7293.2	5775.1
77.5°	241.0	242.6	261.7	352.3	723.8	1109.3	1154.2	5097.0	*5210.0*	4807.8	3579.7
80°	139.6	145.4	162.9	236.0	488.6	833.4	893.3	3125.2	*3253.2*	2137.2	1137.6
82.5°	61.5	65.6	88.9	137.1	285.0	708.8	697.2	1234.8	*1216.5*	595.8	394.7
85°	10.8	13.3	19.1	43.2	104.7	373.9	540.9	545.1	*512.7*	226.0	163.7
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	81.4	146.2	*145.4*	64.0	56.5
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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Scaled Data Report

REPORT NUMBER: P633522
CATALOG NUMBER: GWS-SA2E-830-U-SL2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2516.9	2516.9	2516.9	2516.9	2516.9	2516.9	2516.9	2516.9	2516.9	2516.9	2516.9
2.5°	2529.4	2507.0	2526.9	2529.4	2525.2	2521.9	2497.0	2475.4	2472.9	2449.6	2449.6
5°	2538.5	2517.8	2527.7	2508.6	2478.7	2448.0	2394.8	2358.2	2341.6	2311.7	2311.7
7.5°	2551.0	2529.4	2517.8	2470.4	2400.6	2333.3	2247.7	2176.2	2147.2	2104.8	2103.1
10°	2562.6	2535.2	2495.3	2403.1	2291.7	2184.6	2059.9	1958.5	1889.6	1838.9	1838.9
12.5°	2561.8	2526.1	2447.1	2310.9	2157.1	2001.7	1835.6	1682.7	1591.3	1512.3	1507.3
15°	2560.1	2511.1	2385.6	2203.7	2000.1	1784.9	1558.9	1359.4	1224.0	1146.7	1140.1
17.5°	2558.5	2492.0	2316.7	2081.5	1809.0	1515.6	1217.3	1001.3	888.3	840.9	842.6
20°	2558.5	2470.4	2242.7	1941.1	1588.8	1193.2	893.3	736.2	708.0	710.5	713.0
22.5°	2551.0	2443.8	2160.5	1788.2	1343.6	877.5	658.9	605.8	620.7	644.0	647.3
25°	2533.6	2399.8	2064.9	1618.7	1052.0	639.0	537.6	527.7	555.1	584.2	592.5
27.5°	2506.1	2349.1	1957.7	1420.1	774.4	513.5	472.8	472.0	493.6	515.2	522.7
30°	2477.0	2292.6	1844.7	1199.1	560.9	447.0	431.3	431.3	442.1	455.4	453.7
32.5°	2443.0	2235.2	1723.4	968.9	457.0	409.7	404.7	402.2	403.8	408.8	408.8
35°	2413.9	2184.6	1598.7	725.4	409.7	388.9	383.9	378.1	375.6	372.3	373.9
37.5°	2403.1	2144.7	1469.9	546.8	386.4	373.9	365.6	357.3	351.5	349.8	349.0
40°	2420.5	2128.1	1341.1	450.4	369.8	358.1	349.0	338.2	333.2	333.2	333.2
42.5°	2488.7	2140.5	1209.9	407.2	358.1	344.8	331.5	321.6	319.9	321.6	322.4
45°	2613.3	2188.7	1073.6	385.6	348.2	331.5	315.8	308.3	308.3	309.9	309.9
47.5°	2836.0	2315.0	939.0	372.3	338.2	320.7	304.1	296.6	295.8	297.5	297.5
50°	3221.6	2542.7	817.7	363.1	330.7	312.4	295.8	285.8	283.4	282.5	282.5
52.5°	3707.7	2937.4	740.4	356.5	321.6	303.3	286.7	273.4	268.4	265.9	265.9
55°	4295.2	3463.4	740.4	351.5	309.9	292.5	273.4	260.1	252.6	249.3	249.3
57.5°	4960.7	4075.8	868.3	347.3	300.8	280.0	259.3	246.0	237.7	232.7	232.7
60°	5638.0	4723.1	1184.9	341.5	292.5	264.2	243.5	231.0	220.2	214.4	213.6
62.5°	6340.1	5436.0	1602.1	344.8	286.7	249.3	226.8	212.7	203.6	197.8	196.9
65°	6983.3	6114.9	1966.8	370.6	287.5	236.0	207.7	195.3	187.8	180.3	179.5
67.5°	*7529.2*	*6489.7*	*1710.9*	*423.0*	*305.0*	*220.2*	*188.6*	*176.2*	*169.5*	*164.5*	*163.7*
70°	7147.0	5918.0	970.5	455.4	329.1	203.6	167.0	158.7	152.1	148.7	147.9
72.5°	6111.6	5010.6	649.0	402.2	300.0	182.0	147.1	140.4	135.4	131.3	130.5
75°	4950.8	3973.6	496.1	329.9	233.5	147.9	126.3	121.3	116.3	112.2	111.3
77.5°	2929.1	2295.9	365.6	260.9	164.5	115.5	104.7	100.5	95.6	92.2	91.4
80°	934.8	797.7	231.8	179.5	108.9	88.9	80.6	77.3	72.3	68.1	67.3
82.5°	356.5	308.3	123.0	91.4	72.3	60.7	54.0	50.7	47.4	43.2	42.4
85°	157.9	147.9	68.1	49.0	39.1	29.9	26.6	24.9	20.8	17.4	16.6
87.5°	55.7	55.7	29.1	14.1	8.3	4.2	2.5	0.8	0.0	0.0	0.0
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

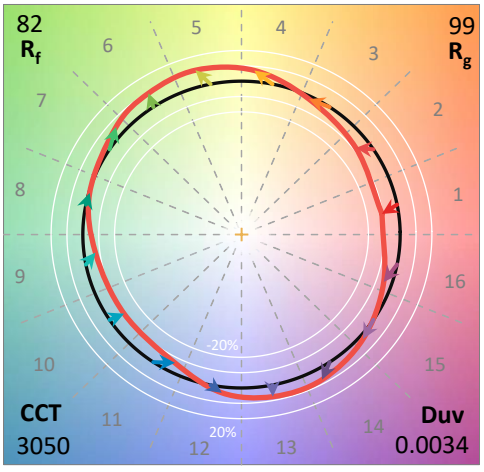
Test Information

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

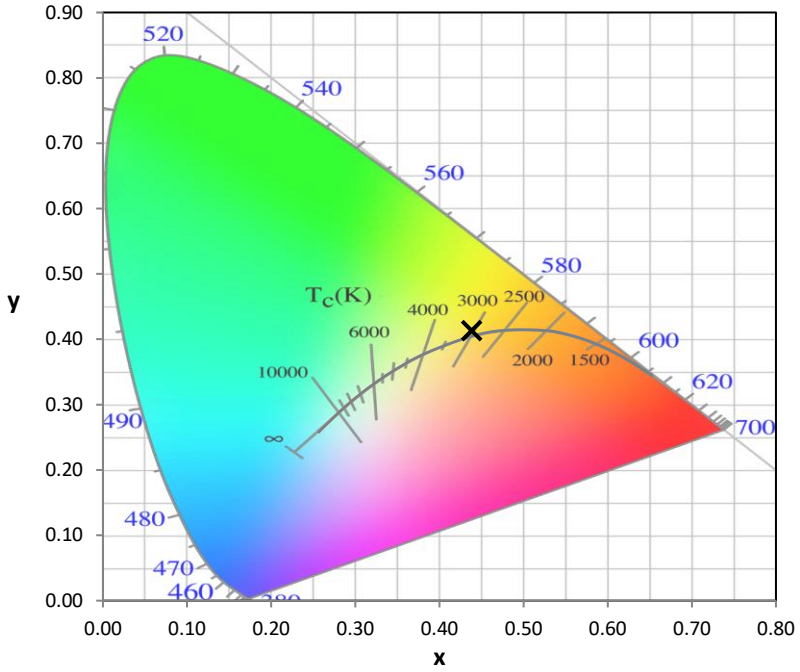
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

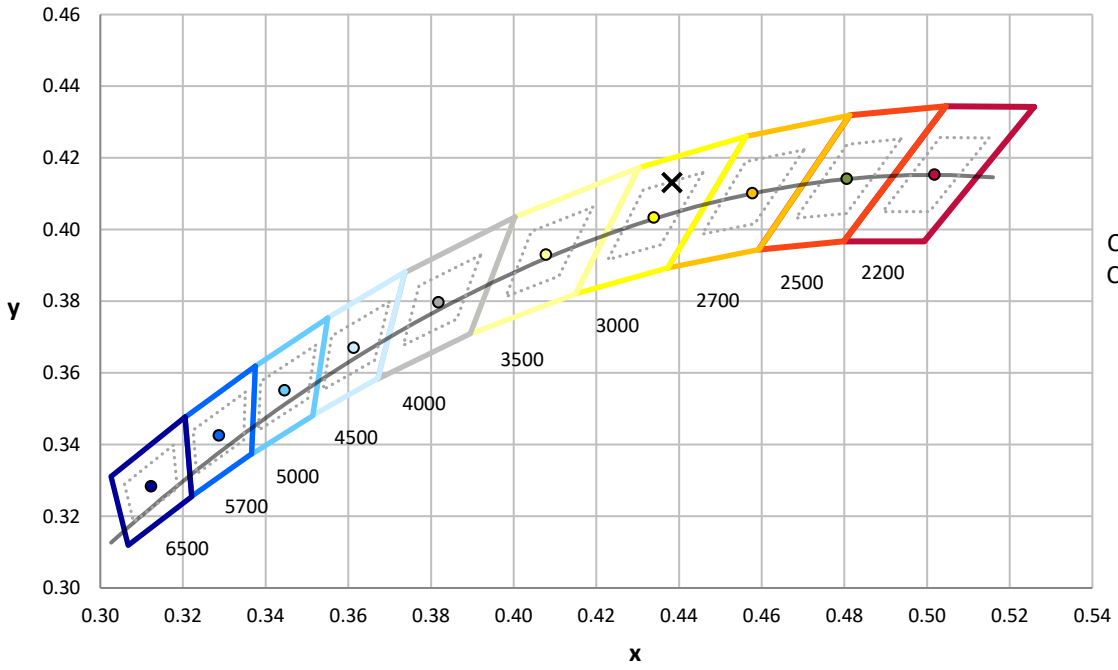
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

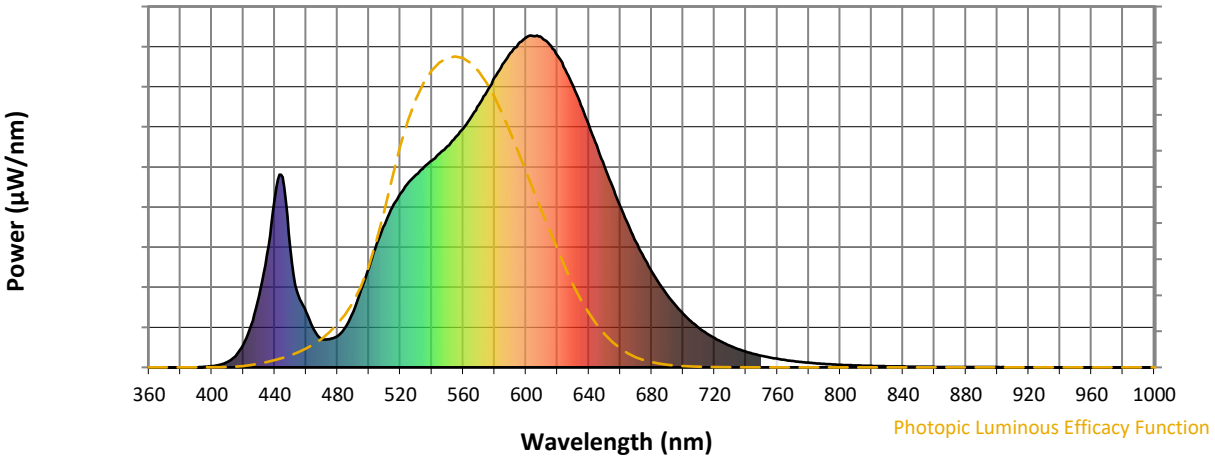


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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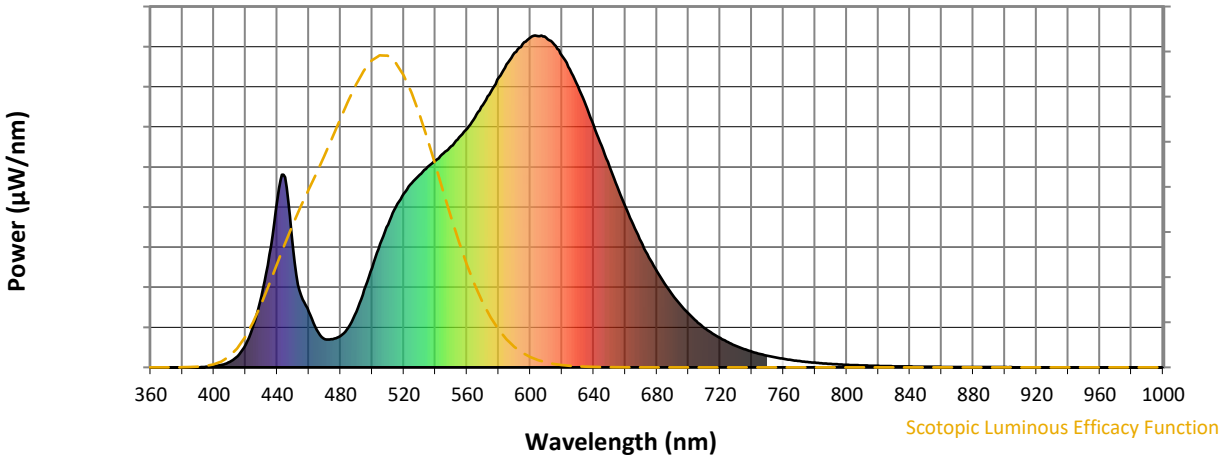
Scotopic Flux vs. Wavelength



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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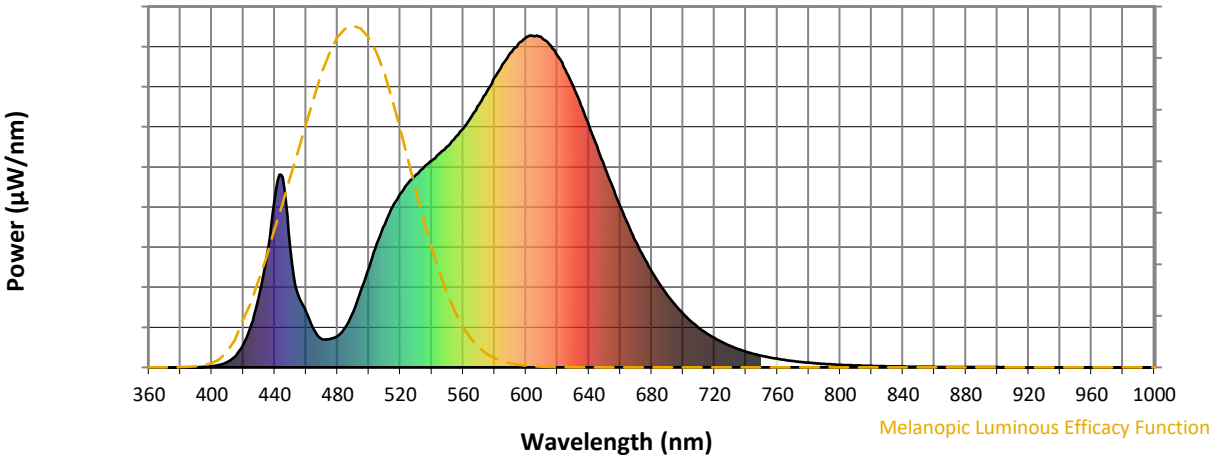
Melanopic Flux vs. Wavelength



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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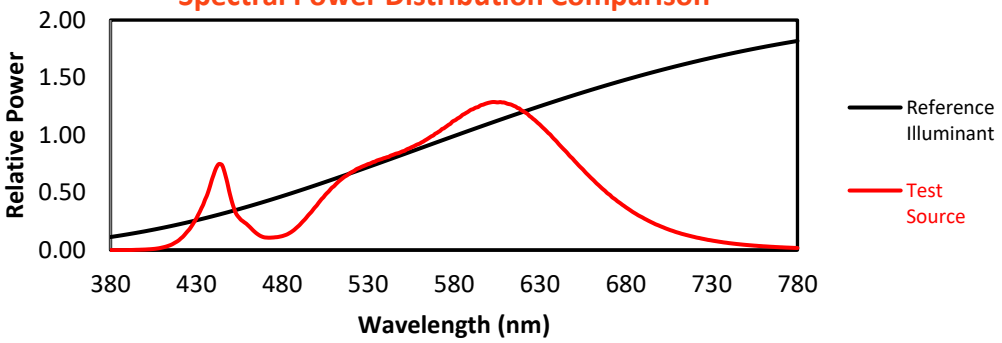
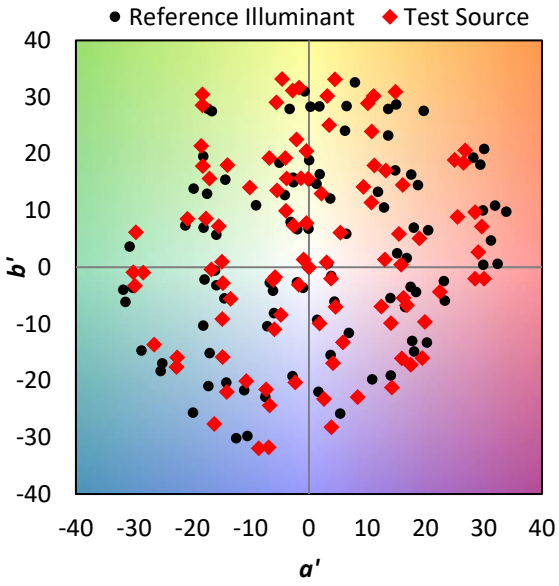
Summary

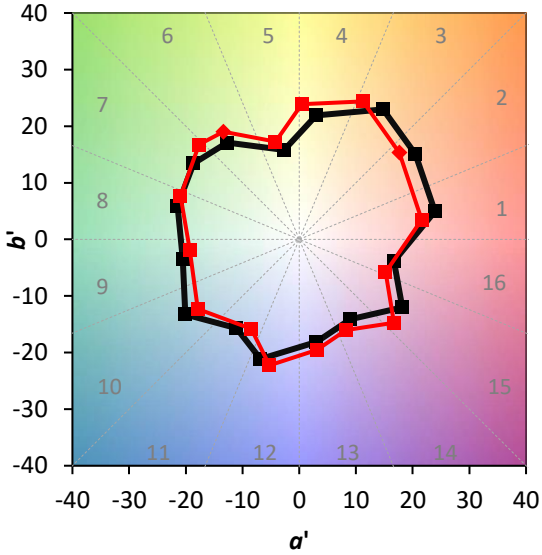
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

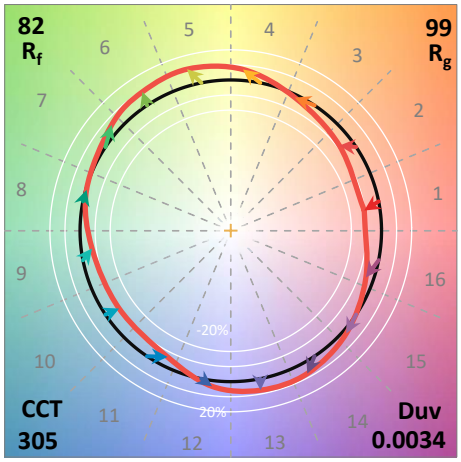
Spectral Power Distribution Comparison

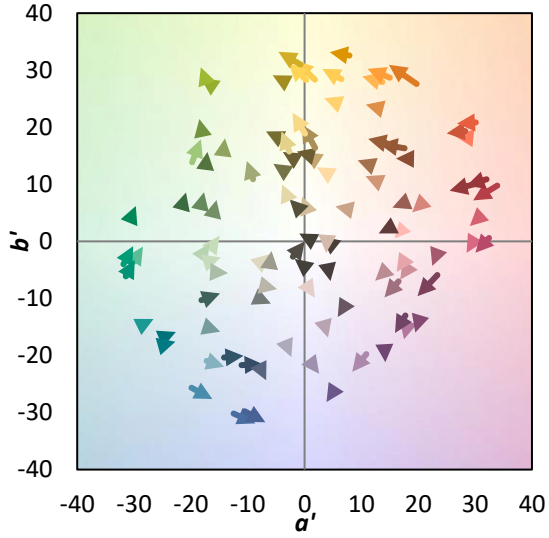


Color Vector Graphics









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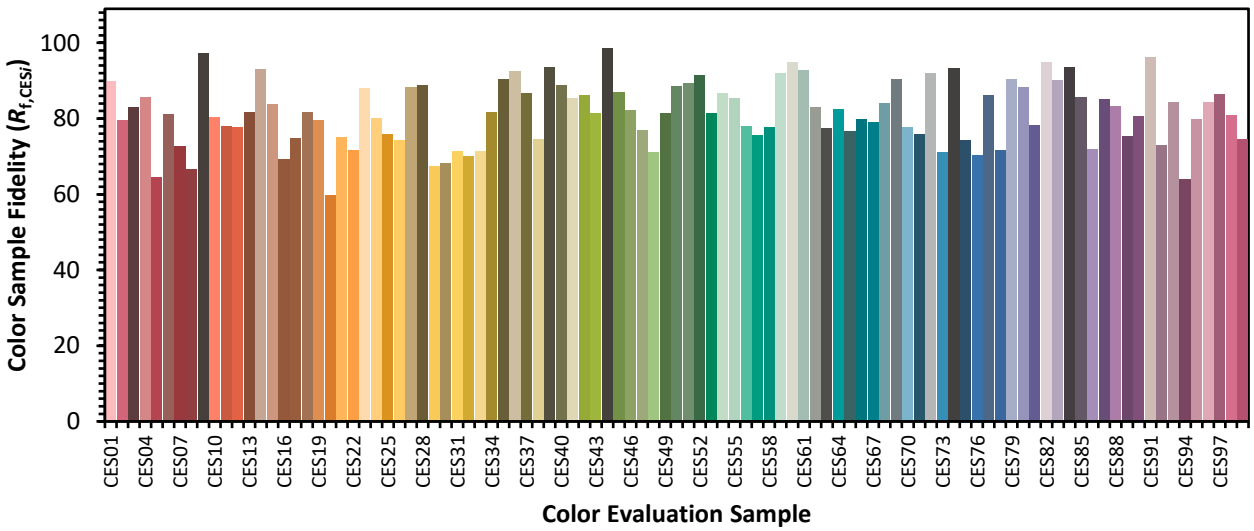
Individual Sample Fidelity Index ($R_{f,i}$)

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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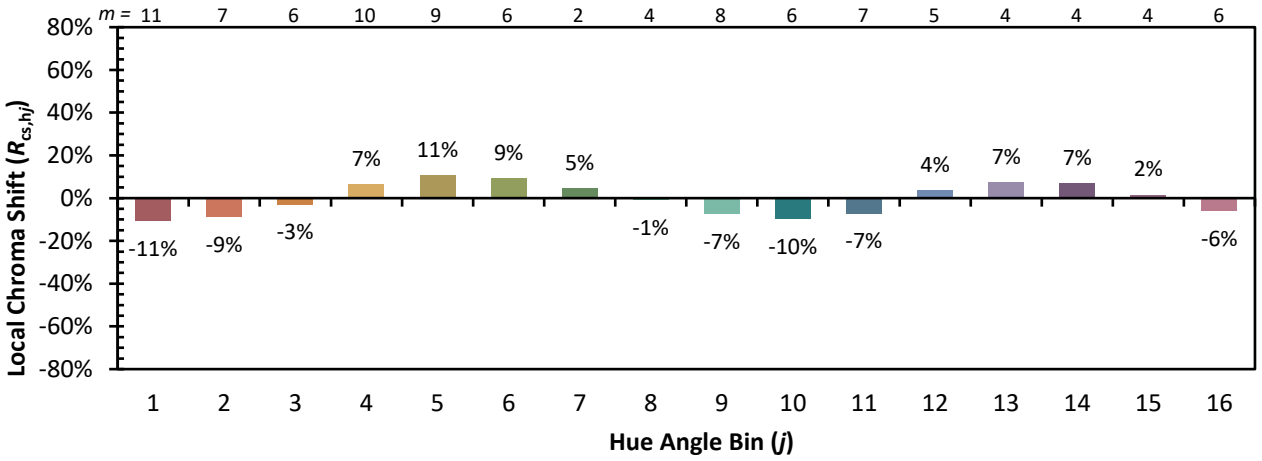
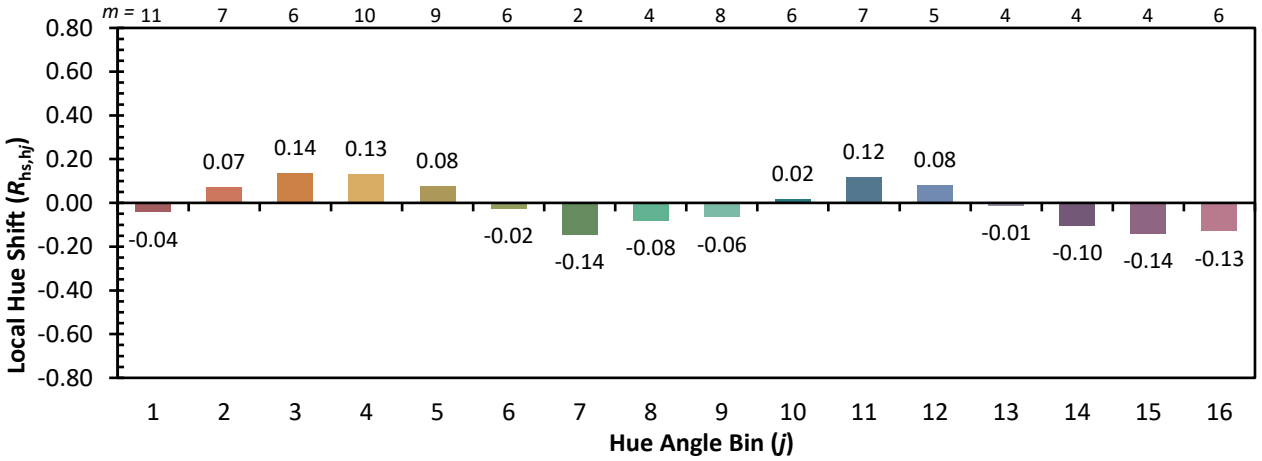
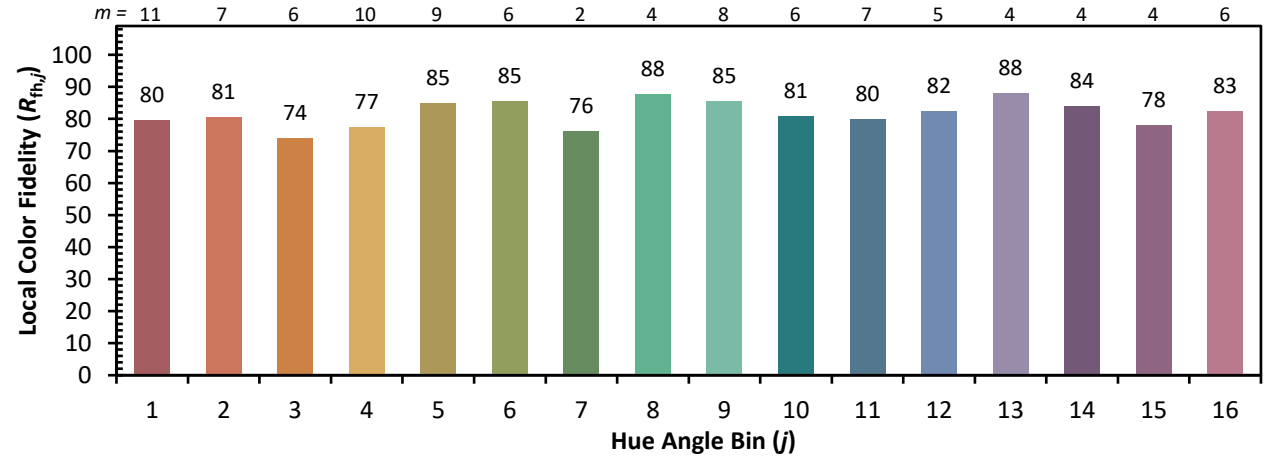
Color Rendition by Hue-Angle Bin







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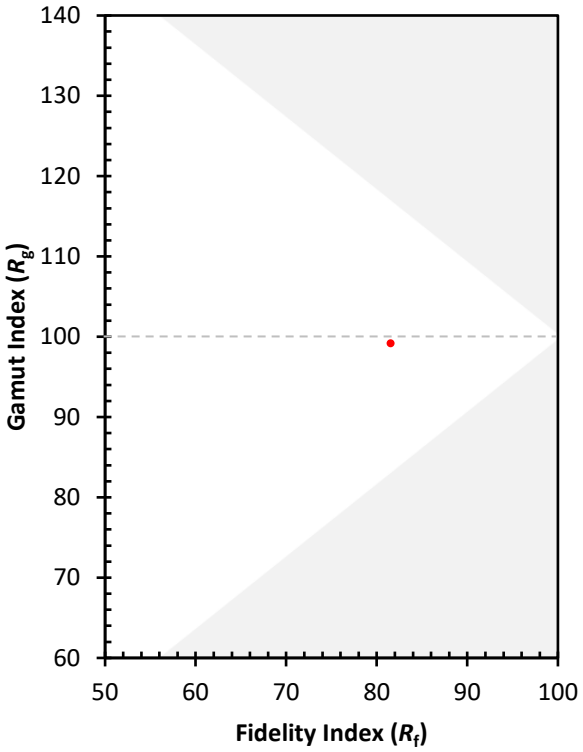
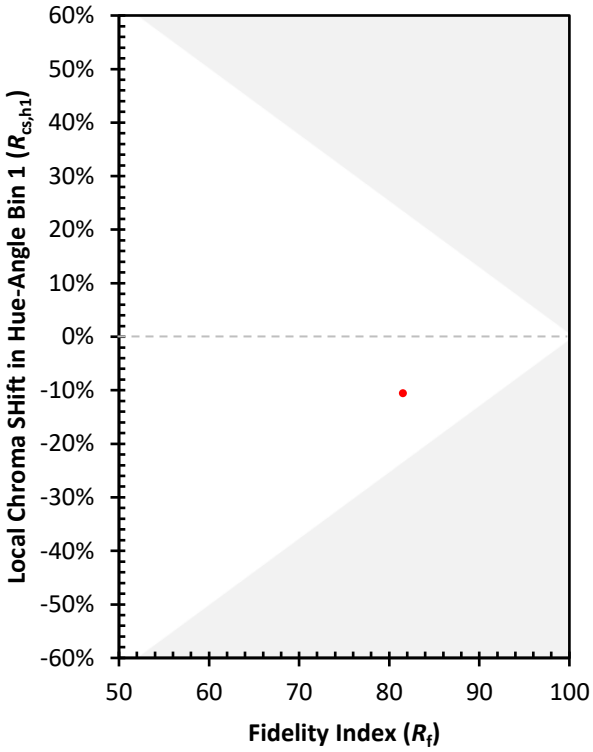
Measure Comparisons





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