

Signify Classified - Internal
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: P636032

Luminaire Tested: GWS-SA3E-830-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-830-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17320.2 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

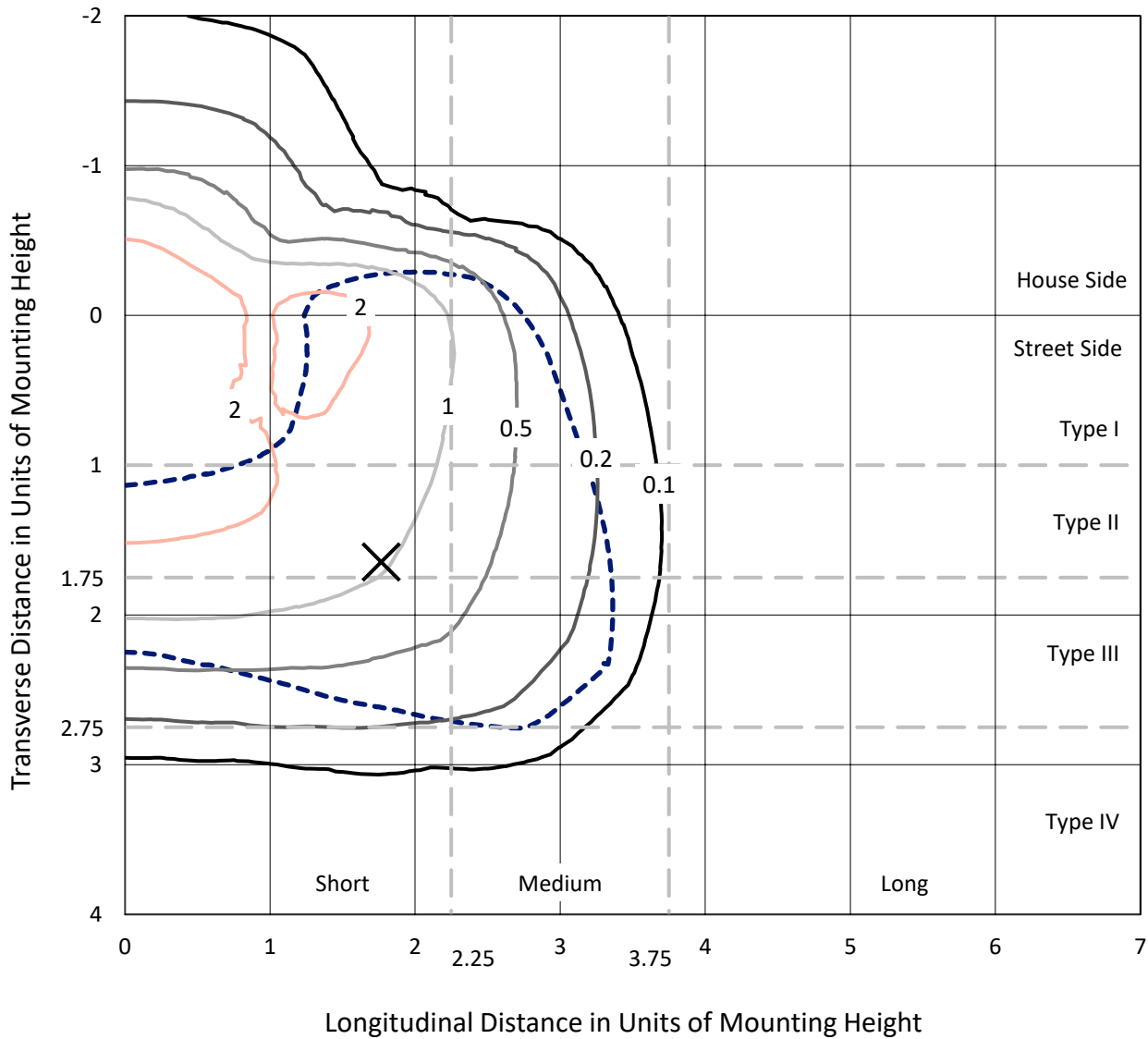
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636032
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Iso-Footcandle Lines of Horizontal Illumination

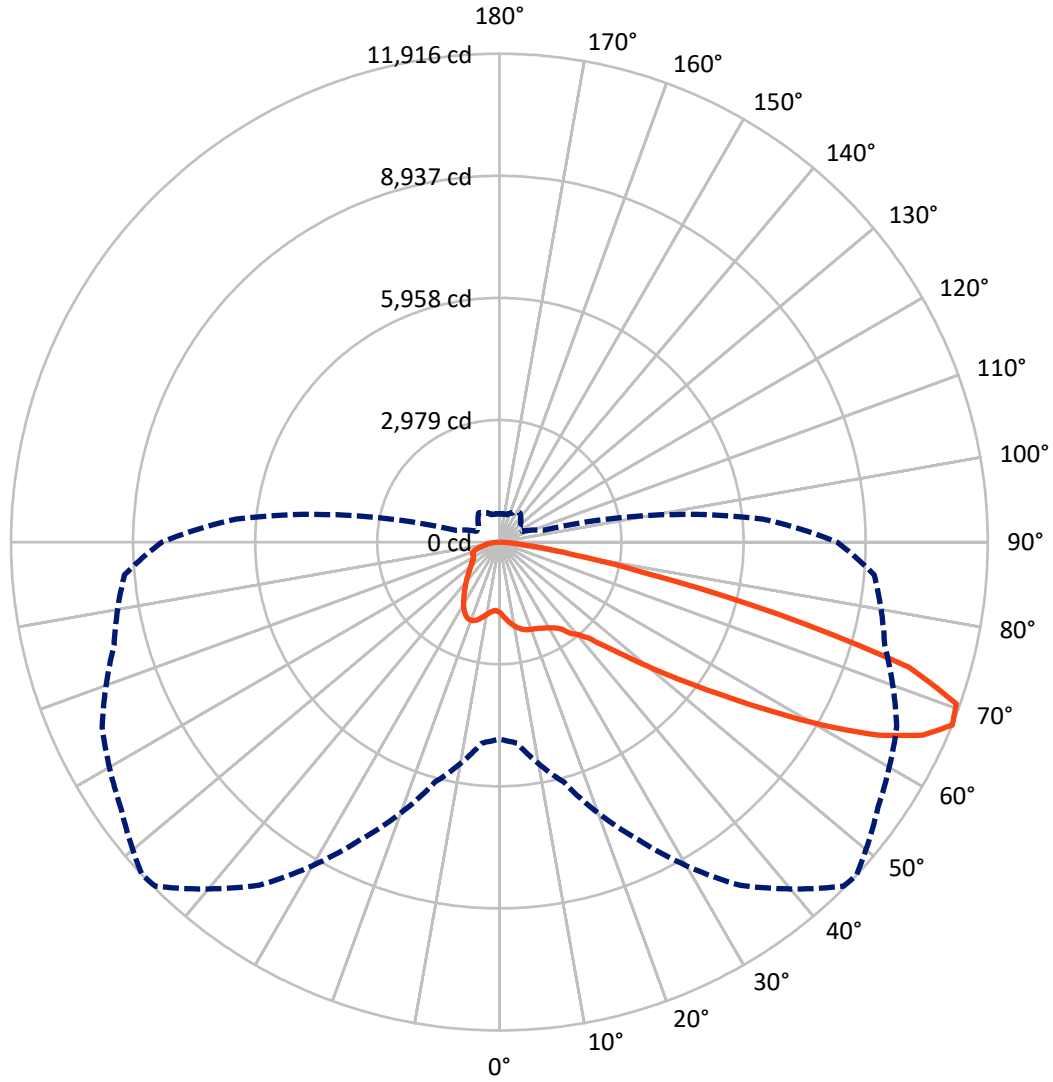
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

REPORT NUMBER: P636032
CATALOG NUMBER: GWS-SA3E-830-U-T4W-W

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GWS-SA3E-830-U-T4W-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3947.4	0.0	3947.4
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	13372.8	0.0	13372.8
	% Fixture	77.2	0.0	77.2
Total	Lumens	17320.2	0.0	17320.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	1.0
10°-20°	584.6	3.4
20°-30°	993.7	5.7
30°-40°	1455.7	8.4
40°-50°	2217.9	12.8
50°-60°	3968.3	22.9
60°-70°	5295.3	30.6
70°-80°	2394.6	13.8
80°-90°	234.6	1.4
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°	17320.2	100.0
0°-180°	17320.2	100.0

Coefficient of Utilization



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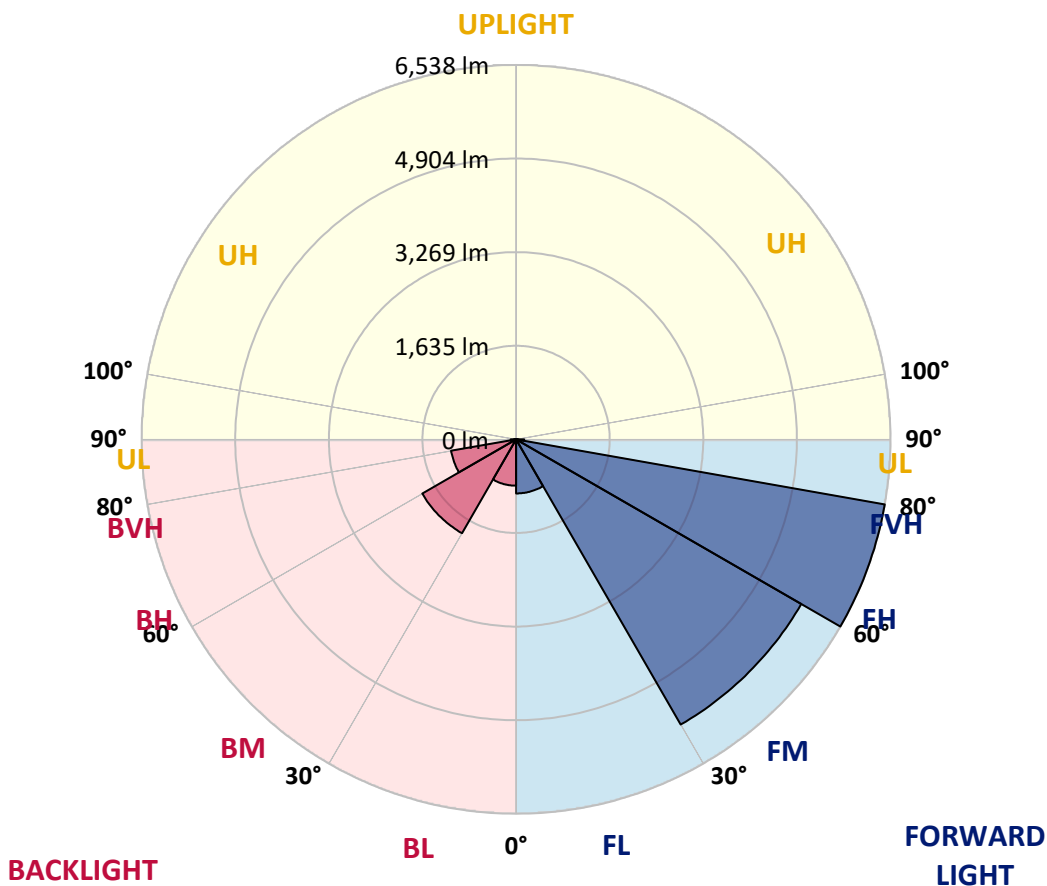
CATALOG NUMBER: GWS-SA3E-830-U-T4W-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	944.6	5.5			
FM (30°-60°)	5750.5	33.2			
FH (60°-80°)	6538.2	37.7			G3/7500
FVH (80°-90°)	139.6	0.8			G2/225
BL (0°-30°)	809.2	4.7	B2/1000		
BM (30°-60°)	1891.4	10.9	B2/2500		
BH (60°-80°)	1151.7	6.6	B3/2500		G3/2500
BVH (80°-90°)	95.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P636032
 CATALOG NUMBER: GWS-SA3E-830-U-T4W-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0
2.5°	1830.9	1837.2	1836.0	1825.9	1819.7	1808.4	1809.7	1792.1	1765.8	1748.3	1728.3
5°	1992.5	2002.5	1990.0	1973.7	1948.7	1912.3	1908.6	1868.5	1818.4	1783.4	1747.0
7.5°	2132.8	2139.0	2124.0	2096.4	2060.1	2011.3	2002.5	1954.9	1892.3	1837.2	1784.6
10°	2241.7	2249.2	2229.2	2192.9	2145.3	2096.4	2090.2	2041.3	1975.0	1909.8	1843.5
12.5°	2334.4	2336.9	2315.6	2266.8	2215.4	2165.3	2159.1	2114.0	2052.6	1986.2	1913.6
15°	2388.2	2389.5	2363.2	2309.3	2260.5	2216.7	2212.9	2174.1	2117.7	2055.1	1977.5
17.5°	2384.5	2387.0	2368.2	2320.6	2278.0	2251.7	2248.0	2222.9	2179.1	2122.7	2045.1
20°	2338.1	2340.7	2328.1	2296.8	2274.3	2266.8	2268.0	2260.5	2234.2	2187.9	2109.0
22.5°	2301.8	2305.6	2294.3	2271.8	2269.3	2286.8	2290.6	2294.3	2281.8	2240.5	2164.1
25°	2319.4	2325.6	2308.1	2276.8	2281.8	2320.6	2328.1	2340.7	2330.6	2295.6	2229.2
27.5°	2440.8	2444.6	2399.5	2335.6	2320.6	2361.9	2373.2	2393.3	2385.7	2353.2	2301.8
30°	2722.6	2720.1	2623.7	2467.1	2404.5	2420.8	2429.6	2458.4	2460.9	2439.6	2390.7
32.5°	3119.6	3107.1	2958.1	2708.8	2527.3	2487.2	2497.2	2536.0	2564.8	2542.3	2475.9
35°	3539.2	3527.9	3363.8	3072.0	2753.9	2614.9	2603.6	2633.7	2677.5	2614.9	2519.7
37.5°	3938.7	3921.1	3753.3	3392.6	3033.2	2839.1	2822.8	2792.8	2766.5	2646.2	2573.6
40°	4382.0	4362.0	4215.4	3807.2	3341.3	3010.7	2969.3	2850.4	2826.6	2750.2	2713.9
42.5°	4855.4	4855.4	4733.9	4331.9	3713.2	3256.1	3202.3	3023.2	3048.2	2998.1	2955.6
45°	5328.8	5342.6	5246.1	4860.4	4210.4	3719.5	3633.1	3378.9	3439.0	3416.4	3395.1
47.5°	5732.0	5758.3	5739.5	5400.2	4819.1	4283.1	4151.6	3887.3	4016.3	4070.2	4130.3
50°	6166.6	6195.4	6176.6	6042.6	5531.7	4965.6	4847.9	4574.9	4796.5	4958.1	5154.7
52.5°	6811.6	6852.9	6696.3	6645.0	6397.0	5740.8	5635.6	5325.0	5727.0	5995.0	6433.4
55°	7356.3	7355.1	7300.0	7417.7	7326.3	6688.8	6572.4	6290.6	6804.0	7088.3	7729.5
57.5°	7609.3	7639.4	7828.5	8161.6	8344.4	7847.3	7735.8	7447.8	7960.0	8107.8	8800.3
60°	7739.6	7777.1	8142.8	8801.6	9293.7	9112.1	9068.3	8701.4	8989.4	8971.9	9703.3
62.5°	7556.7	7631.9	8219.2	9094.6	9971.3	10383.3	10369.5	9814.7	9864.8	9693.2	10263.1
65°	6717.6	6799.0	7720.8	8948.1	10358.2	11350.1	11353.9	10822.9	10537.3	10043.9	10169.1
67.5°	4804.0	4920.5	6060.2	8006.3	10221.7	11872.3	11916.2	11280.0	10695.1	9733.3	9182.3
70°	2618.7	2703.8	3596.8	5819.7	8991.9	11747.1	11828.5	11059.6	9998.8	8419.6	7068.3
72.5°	1189.7	1217.3	1673.1	3193.5	6142.8	10111.5	10452.2	9869.8	8211.7	6219.2	4494.7
75°	544.8	557.3	728.9	1527.9	3209.8	6766.5	7005.7	7351.3	5714.5	3927.4	2343.2
77.5°	341.9	345.7	414.5	698.8	1600.5	3377.6	3629.3	4377.0	3346.3	1943.7	979.3
80°	201.6	205.4	258.0	378.2	751.4	1545.4	1784.6	1730.8	1573.0	839.1	445.8
82.5°	101.4	105.2	149.0	215.4	409.5	614.9	723.9	727.6	586.1	454.6	251.7
85°	36.3	37.6	48.8	85.2	174.1	202.9	226.7	276.8	286.8	264.2	121.5
87.5°	0.0	0.0	1.3	2.5	5.0	20.0	21.3	40.1	83.9	93.9	48.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636032
 CATALOG NUMBER: GWS-SA3E-830-U-T4W-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0	1717.0
2.5°	1722.0	1703.2	1696.9	1690.7	1680.7	1676.9	1669.4	1661.9	1661.9	1654.4	1650.6
5°	1730.8	1705.7	1689.4	1681.9	1675.7	1679.4	1679.4	1681.9	1690.7	1685.7	1688.2
7.5°	1762.1	1733.3	1710.7	1704.5	1704.5	1719.5	1729.5	1742.0	1758.3	1760.8	1760.8
10°	1817.2	1783.4	1759.6	1755.8	1762.1	1783.4	1798.4	1813.4	1833.4	1834.7	1837.2
12.5°	1877.3	1843.5	1819.7	1824.7	1830.9	1858.5	1874.8	1887.3	1907.3	1907.3	1906.1
15°	1939.9	1902.3	1882.3	1892.3	1911.1	1942.4	1944.9	1946.2	1956.2	1953.7	1952.4
17.5°	2005.0	1964.9	1949.9	1964.9	1985.0	2000.0	1987.5	1970.0	1966.2	1961.2	1958.7
20°	2068.9	2027.6	2021.3	2032.6	2038.8	2026.3	1987.5	1954.9	1939.9	1932.4	1929.9
22.5°	2124.0	2088.9	2085.2	2085.2	2053.9	2010.0	1952.4	1908.6	1888.6	1878.5	1876.0
25°	2189.1	2156.6	2150.3	2116.5	2036.3	1956.2	1878.5	1838.5	1822.2	1817.2	1818.4
27.5°	2265.5	2243.0	2222.9	2126.5	1986.2	1861.0	1773.3	1755.8	1749.5	1755.8	1759.6
30°	2359.4	2336.9	2291.8	2114.0	1906.1	1737.0	1653.1	1651.9	1670.6	1686.9	1689.4
32.5°	2435.8	2425.8	2351.9	2073.9	1793.4	1600.5	1529.1	1534.1	1567.9	1590.5	1594.2
35°	2495.9	2512.2	2402.0	2007.5	1659.4	1471.5	1415.2	1417.7	1436.5	1467.8	1469.0
37.5°	2581.1	2636.2	2447.1	1906.1	1505.3	1360.1	1308.7	1289.9	1287.4	1296.2	1298.7
40°	2752.7	2835.3	2479.7	1758.3	1356.3	1259.9	1202.3	1165.9	1134.6	1110.8	1103.3
42.5°	3011.9	3107.1	2498.5	1579.2	1223.6	1160.9	1095.8	1049.5	994.4	944.3	926.7
45°	3487.8	3519.1	2498.5	1388.9	1105.8	1068.3	1003.1	948.0	877.9	819.0	806.5
47.5°	4249.2	4149.1	2501.0	1204.8	1001.9	986.9	930.5	867.9	790.2	741.4	733.9
50°	5396.4	5044.5	2552.3	1052.0	915.5	918.0	876.6	807.8	737.6	701.3	695.1
52.5°	6696.3	6147.8	2690.1	939.3	842.8	861.6	839.1	772.7	710.1	678.8	672.5
55°	7918.6	7162.2	2807.8	859.1	781.5	814.0	812.8	751.4	695.1	663.7	660.0
57.5°	8958.1	7857.3	2790.2	794.0	728.9	770.2	789.0	737.6	685.0	658.7	655.0
60°	9604.3	8225.5	2541.0	733.9	688.8	738.9	775.2	733.9	690.0	683.8	685.0
62.5°	9884.8	8157.8	2062.6	688.8	662.5	723.9	790.2	760.2	736.4	751.4	760.2
65°	9449.0	7576.8	1517.9	655.0	637.4	727.6	825.3	801.5	736.4	746.4	750.2
67.5°	8239.2	6449.6	1097.1	621.2	606.1	738.9	875.4	795.2	693.8	693.8	686.3
70°	5937.4	4638.7	796.5	587.4	574.8	722.6	877.9	752.7	645.0	641.2	622.4
72.5°	3573.0	2736.4	621.2	549.8	527.2	641.2	822.8	702.6	597.4	566.1	543.5
75°	1856.0	1371.3	521.0	508.5	452.1	543.5	752.7	624.9	511.0	483.4	470.9
77.5°	795.2	641.2	447.1	453.4	375.7	457.1	607.4	541.0	453.4	418.3	407.0
80°	392.0	364.4	353.2	363.2	300.6	353.2	523.5	473.4	384.5	344.4	328.1
82.5°	224.2	212.9	254.2	258.0	214.2	295.6	442.1	400.8	318.1	274.3	248.0
85°	103.9	111.5	154.0	155.3	132.7	202.9	289.3	225.4	169.1	140.3	134.0
87.5°	41.3	48.8	67.6	66.4	38.8	37.6	25.0	13.8	11.3	10.0	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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.

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
 CIE u': 0.2476
 CIE v': 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra):	81.0		
R1:	79.6	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



Test Conditions

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

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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

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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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			

Summary

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



Color Vector Graphics



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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)