

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: P641972

Luminaire Tested: GWS-SA6B-830-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641972  
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-SA6B-830-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

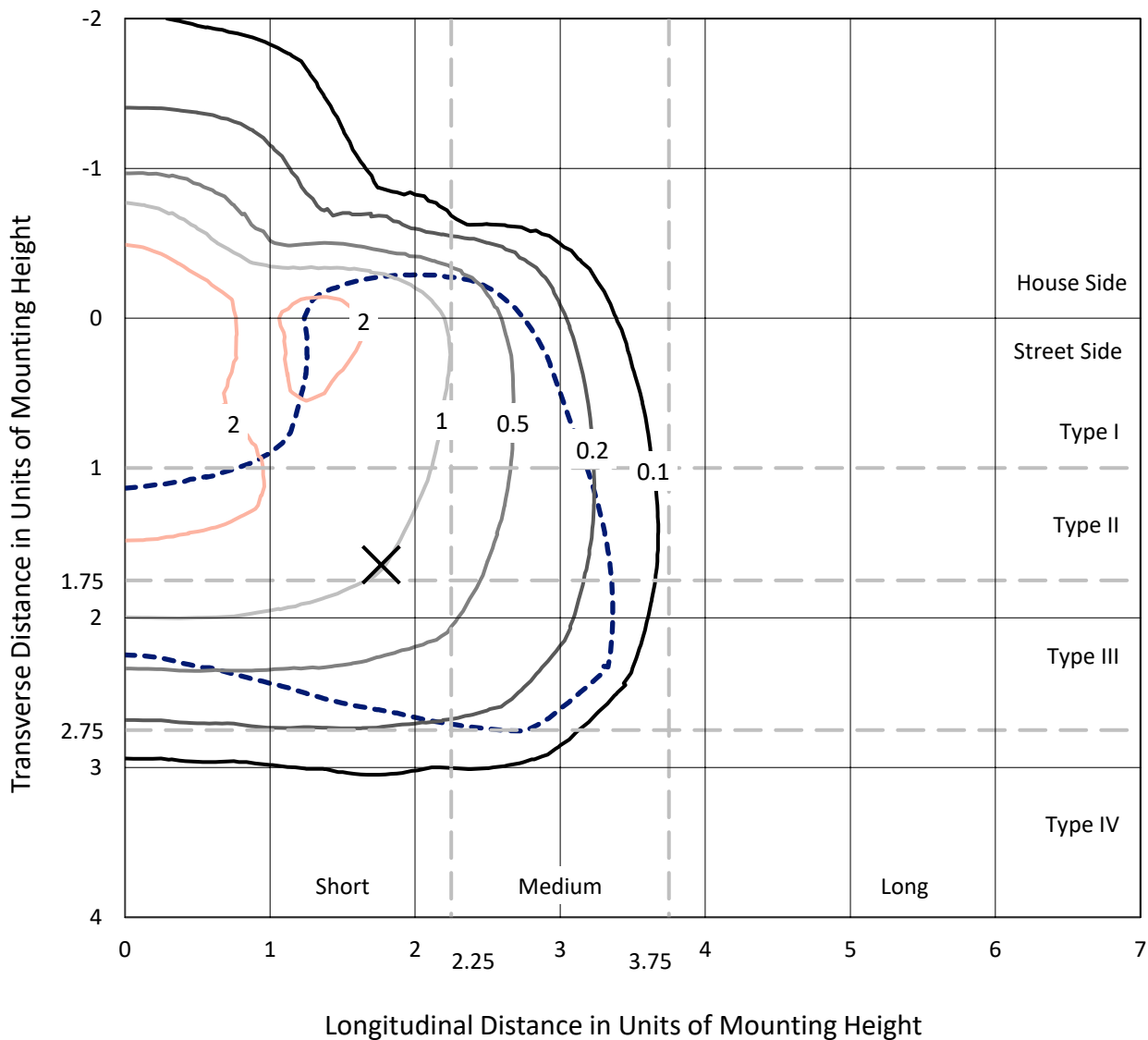
Lumens per Lamp: N/A  
Luminaire Lumens: 16675.1 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): 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: P641972  
 CATALOG NUMBER: GWS-SA6B-830-U-T4W-W

### Iso-Footcandle Lines of Horizontal Illumination

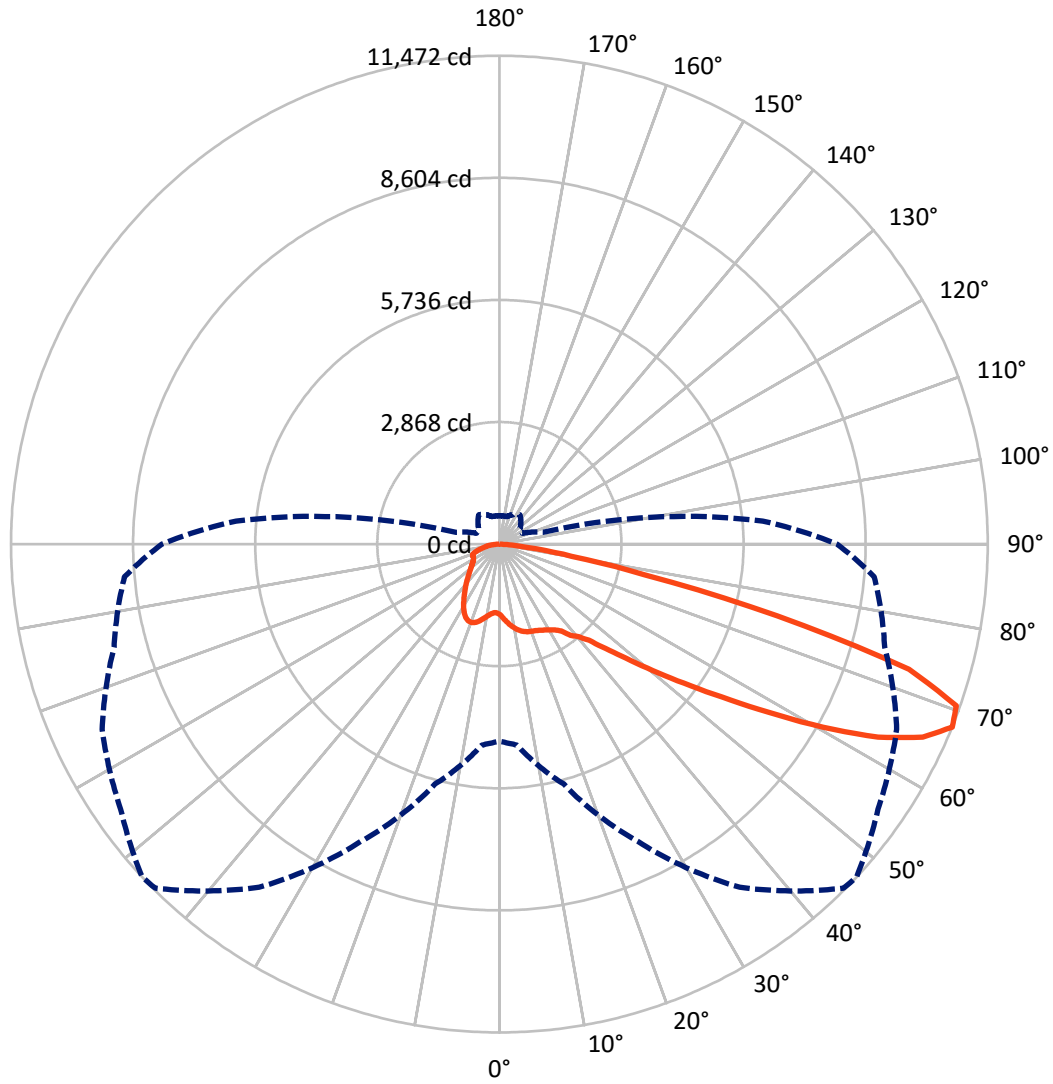
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P641972  
CATALOG NUMBER: GWS-SA6B-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-SA6B-830-U-T4W-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3800.4	0.0	3800.4
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	12874.7	0.0	12874.7
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	16675.1	0.0	16675.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.9	1.0
10°-20°	562.8	3.4
20°-30°	956.7	5.7
30°-40°	1401.5	8.4
40°-50°	2135.3	12.8
50°-60°	3820.5	22.9
60°-70°	5098.0	30.6
70°-80°	2305.4	13.8
80°-90°	225.9	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°	16675.1	100.0
0°-180°	16675.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P641972

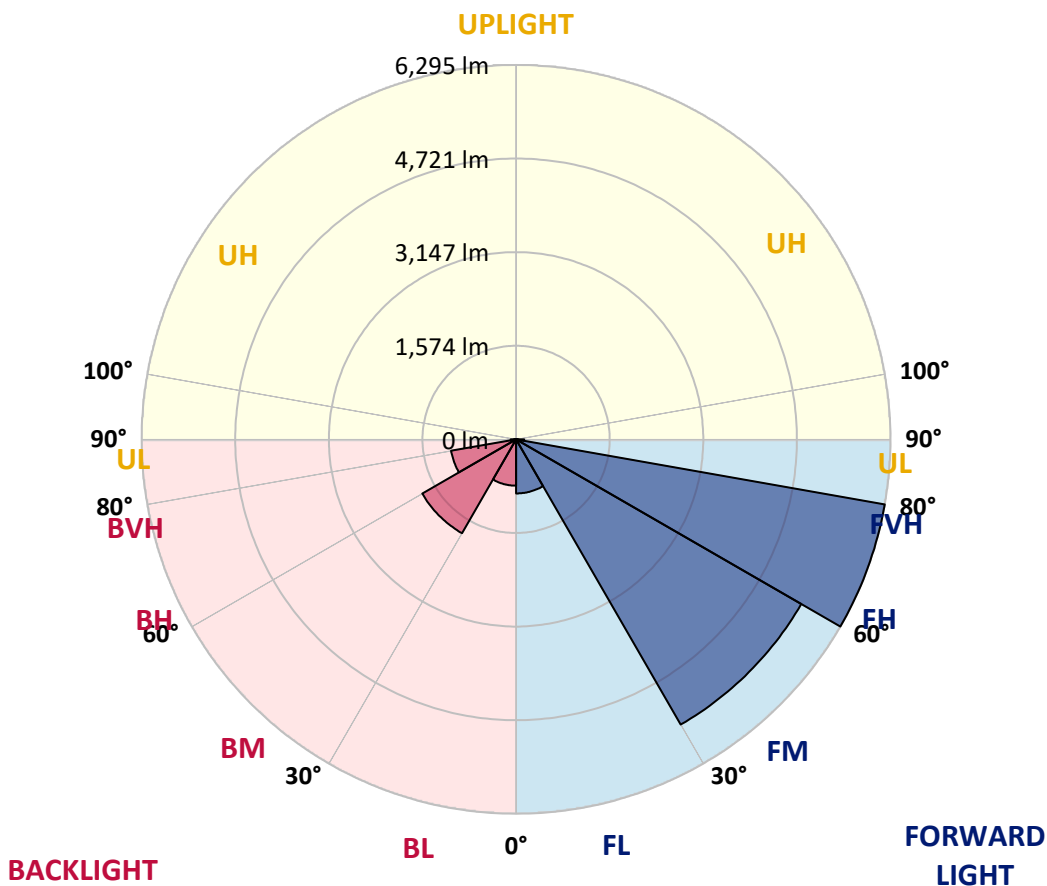
CATALOG NUMBER: GWS-SA6B-830-U-T4W-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.4	5.5			
FM (30°-60°)	5536.3	33.2			
FH (60°-80°)	6294.7	37.7			G3/7500
FVH (80°-90°)	134.4	0.8			G2/225
BL (0°-30°)	779.1	4.7	B2/1000		
BM (30°-60°)	1820.9	10.9	B2/2500		
BH (60°-80°)	1108.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	91.5	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: P641972  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0
2.5°	1762.7	1768.8	1767.6	1757.9	1751.9	1741.0	1742.3	1725.4	1700.1	1683.2	1663.9
5°	1918.3	1927.9	1915.9	1900.2	1876.1	1841.1	1837.5	1798.9	1750.7	1716.9	1682.0
7.5°	2053.3	2059.4	2044.9	2018.4	1983.4	1936.4	1927.9	1882.1	1821.8	1768.8	1718.1
10°	2158.2	2165.5	2146.2	2111.2	2065.4	2018.4	2012.3	1965.3	1901.4	1838.7	1774.8
12.5°	2247.4	2249.9	2229.4	2182.3	2132.9	2084.7	2078.6	2035.2	1976.2	1912.3	1842.3
15°	2299.3	2300.5	2275.2	2223.3	2176.3	2134.1	2130.5	2093.1	2038.9	1978.6	1903.8
17.5°	2295.7	2298.1	2280.0	2234.2	2193.2	2167.9	2164.3	2140.1	2097.9	2043.7	1968.9
20°	2251.1	2253.5	2241.4	2211.3	2189.6	2182.3	2183.5	2176.3	2151.0	2106.4	2030.4
22.5°	2216.1	2219.7	2208.9	2187.2	2184.7	2201.6	2205.2	2208.9	2196.8	2157.0	2083.5
25°	2233.0	2239.0	2222.1	2192.0	2196.8	2234.2	2241.4	2253.5	2243.8	2210.1	2146.2
27.5°	2349.9	2353.5	2310.1	2248.7	2234.2	2274.0	2284.8	2304.1	2296.9	2265.5	2216.1
30°	2621.2	2618.8	2526.0	2375.3	2315.0	2330.6	2339.1	2366.8	2369.2	2348.7	2301.7
32.5°	3003.4	2991.4	2847.9	2608.0	2433.1	2394.5	2404.2	2441.6	2469.3	2447.6	2383.7
35°	3407.3	3396.5	3238.5	2957.6	2651.4	2517.5	2506.7	2535.6	2577.8	2517.5	2425.9
37.5°	3792.0	3775.1	3613.5	3266.3	2920.2	2733.3	2717.7	2688.7	2663.4	2547.7	2477.7
40°	4218.8	4199.5	4058.4	3665.4	3216.8	2898.5	2858.7	2744.2	2721.3	2647.7	2612.8
42.5°	4674.5	4674.5	4557.6	4170.6	3574.9	3134.8	3083.0	2910.6	2934.7	2886.5	2845.5
45°	5130.3	5143.6	5050.7	4679.4	4053.6	3581.0	3497.8	3253.0	3310.9	3289.2	3268.7
47.5°	5518.5	5543.9	5525.8	5199.0	4639.6	4123.5	3996.9	3742.5	3866.7	3918.6	3976.4
50°	5936.9	5964.7	5946.6	5817.6	5325.6	4780.6	4667.3	4404.5	4617.9	4773.4	4962.7
52.5°	6557.9	6597.7	6446.9	6397.5	6158.8	5527.0	5425.7	5126.7	5513.7	5771.7	6193.7
55°	7082.3	7081.1	7028.1	7141.4	7053.4	6439.7	6327.6	6056.3	6550.6	6824.3	7441.6
57.5°	7325.9	7354.8	7536.9	7857.6	8033.7	7555.0	7447.7	7170.4	7663.5	7805.8	8472.5
60°	7451.3	7487.5	7839.5	8473.7	8947.6	8772.8	8730.6	8377.3	8654.6	8637.7	9341.9
62.5°	7275.3	7347.6	7913.1	8755.9	9599.9	9996.6	9983.3	9449.2	9497.4	9332.2	9880.8
65°	6467.4	6545.8	7433.2	8614.8	9972.4	10927.4	10931.0	10419.8	10144.9	9669.8	9790.4
67.5°	4625.1	4737.2	5834.4	7708.1	9841.0	11430.1	11472.3	10859.8	10296.8	9370.8	8840.3
70°	2521.1	2603.1	3462.8	5602.9	8657.0	11309.6	11387.9	10647.6	9626.4	8106.0	6805.0
72.5°	1145.4	1172.0	1610.8	3074.6	5914.0	9734.9	10062.9	9502.2	7905.8	5987.6	4327.3
75°	524.5	536.5	701.7	1471.0	3090.2	6514.5	6744.7	7077.5	5501.7	3781.1	2255.9
77.5°	329.2	332.8	399.1	672.8	1540.9	3251.8	3494.2	4214.0	3221.7	1871.3	942.9
80°	194.1	197.7	248.4	364.1	723.4	1487.8	1718.1	1666.3	1514.4	807.8	429.2
82.5°	97.7	101.3	143.5	207.4	394.3	592.0	696.9	700.5	564.3	437.7	242.3
85°	35.0	36.2	47.0	82.0	167.6	195.3	218.2	266.5	276.1	254.4	117.0
87.5°	0.0	0.0	1.2	2.4	4.8	19.3	20.5	38.6	80.8	90.4	47.0
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: P641972  
 CATALOG NUMBER: GWS-SA6B-830-U-T4W-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0
2.5°	1657.9	1639.8	1633.7	1627.7	1618.1	1614.4	1607.2	1600.0	1600.0	1592.7	1589.1
5°	1666.3	1642.2	1626.5	1619.3	1613.2	1616.9	1616.9	1619.3	1627.7	1622.9	1625.3
7.5°	1696.4	1668.7	1647.0	1641.0	1641.0	1655.4	1665.1	1677.1	1692.8	1695.2	1695.2
10°	1749.5	1716.9	1694.0	1690.4	1696.4	1716.9	1731.4	1745.9	1765.2	1766.4	1768.8
12.5°	1807.4	1774.8	1751.9	1756.7	1762.7	1789.3	1804.9	1817.0	1836.3	1836.3	1835.1
15°	1867.6	1831.5	1812.2	1821.8	1839.9	1870.1	1872.5	1873.7	1883.3	1880.9	1879.7
17.5°	1930.3	1891.8	1877.3	1891.8	1911.1	1925.5	1913.5	1896.6	1893.0	1888.1	1885.7
20°	1991.8	1952.0	1946.0	1956.9	1962.9	1950.8	1913.5	1882.1	1867.6	1860.4	1858.0
22.5°	2044.9	2011.1	2007.5	2007.5	1977.4	1935.2	1879.7	1837.5	1818.2	1808.6	1806.2
25°	2107.6	2076.2	2070.2	2037.7	1960.5	1883.3	1808.6	1770.0	1754.3	1749.5	1750.7
27.5°	2181.1	2159.4	2140.1	2047.3	1912.3	1791.7	1707.3	1690.4	1684.4	1690.4	1694.0
30°	2271.6	2249.9	2206.5	2035.2	1835.1	1672.3	1591.5	1590.3	1608.4	1624.1	1626.5
32.5°	2345.1	2335.5	2264.3	1996.7	1726.6	1540.9	1472.2	1477.0	1509.6	1531.3	1534.9
35°	2403.0	2418.7	2312.6	1932.8	1597.6	1416.7	1362.5	1364.9	1383.0	1413.1	1414.3
37.5°	2485.0	2538.0	2356.0	1835.1	1449.3	1309.4	1260.0	1241.9	1239.5	1247.9	1250.3
40°	2650.2	2729.7	2387.3	1692.8	1305.8	1212.9	1157.5	1122.5	1092.4	1069.5	1062.2
42.5°	2899.7	2991.4	2405.4	1520.4	1178.0	1117.7	1055.0	1010.4	957.3	909.1	892.2
45°	3357.9	3388.0	2405.4	1337.1	1064.6	1028.5	965.8	912.7	845.2	788.5	776.5
47.5°	4091.0	3994.5	2407.8	1159.9	964.6	950.1	895.8	835.6	760.8	713.8	706.5
50°	5195.4	4856.6	2457.2	1012.8	881.4	883.8	844.0	777.7	710.2	675.2	669.2
52.5°	6446.9	5918.8	2589.9	904.3	811.4	829.5	807.8	743.9	683.6	653.5	647.5
55°	7623.7	6895.5	2703.2	827.1	752.4	783.7	782.5	723.4	669.2	639.0	635.4
57.5°	8624.5	7564.6	2686.3	764.4	701.7	741.5	759.6	710.2	659.5	634.2	630.6
60°	9246.6	7919.1	2446.4	706.5	663.1	711.4	746.3	706.5	664.3	658.3	659.5
62.5°	9516.7	7854.0	1985.8	663.1	637.8	696.9	760.8	731.9	709.0	723.4	731.9
65°	9097.1	7294.6	1461.3	630.6	613.7	700.5	794.6	771.7	709.0	718.6	722.2
67.5°	7932.4	6209.4	1056.2	598.0	583.6	711.4	842.8	765.6	668.0	668.0	660.7
70°	5716.3	4466.0	766.8	565.5	553.4	695.7	845.2	724.6	620.9	617.3	599.2
72.5°	3439.9	2634.5	598.0	529.3	507.6	617.3	792.2	676.4	575.1	545.0	523.3
75°	1786.9	1320.3	501.6	489.5	435.3	523.3	724.6	601.6	491.9	465.4	453.3
77.5°	765.6	617.3	430.4	436.5	361.7	440.1	584.8	520.9	436.5	402.7	391.9
80°	377.4	350.9	340.0	349.7	289.4	340.0	504.0	455.8	370.2	331.6	315.9
82.5°	215.8	205.0	244.8	248.4	206.2	284.5	425.6	385.8	306.3	264.1	238.7
85°	100.1	107.3	148.3	149.5	127.8	195.3	278.5	217.0	162.8	135.0	129.0
87.5°	39.8	47.0	65.1	63.9	37.4	36.2	24.1	13.3	10.9	9.6	8.4
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**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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**

$\lambda$ (nm)	Power $W^{\wedge}/nm$	Lumens ( $\phi/nm$ )	$\lambda$ (nm)	Power $W^{\wedge}/nm$	Lumens ( $\phi/nm$ )	$\lambda$ (nm)	Power $W^{\wedge}/nm$	Lumens ( $\phi/nm$ )	$\lambda$ (nm)	Power $W^{\wedge}/nm$	Lumens ( $\phi/nm$ )	$\lambda$ (nm)	Power $W^{\wedge}/nm$	Lumens ( $\phi/nm$ )
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)