

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: P642918

Luminaire Tested: GWS-SA6D-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642918  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-830-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25815.6 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 245.7  
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

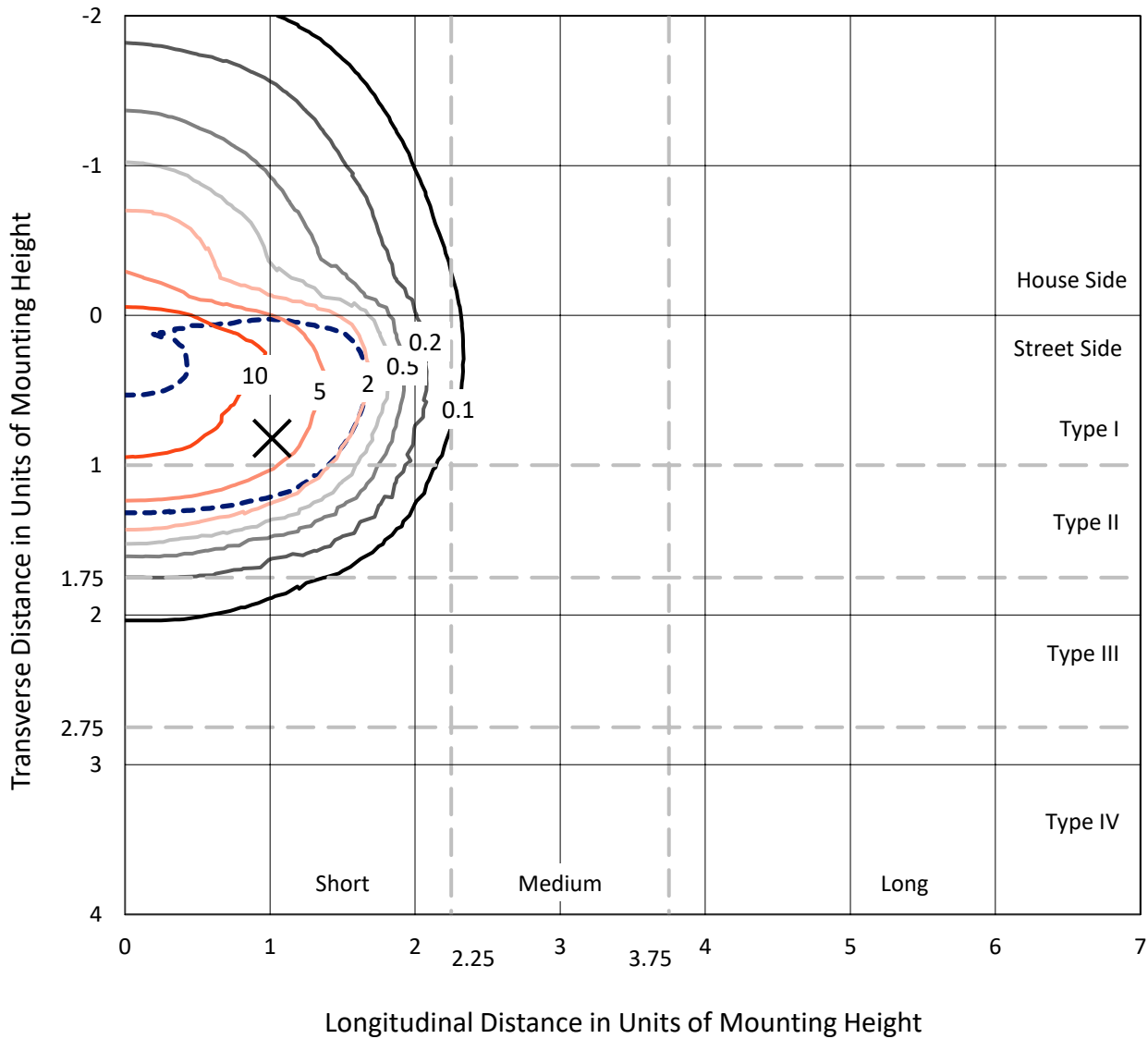


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### Iso-Footcandle Lines of Horizontal Illumination

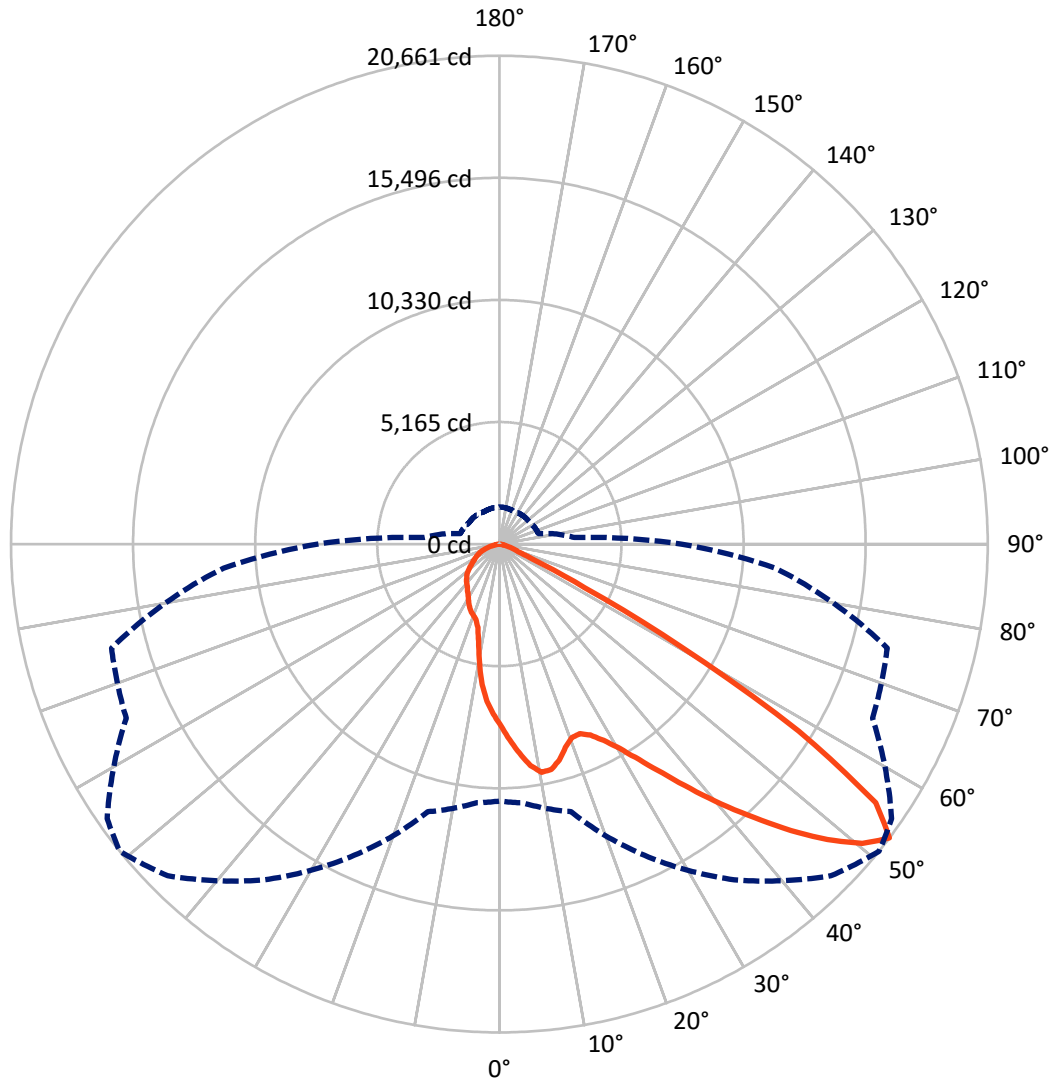
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5030.0	0.0	5030.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	20785.6	0.0	20785.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	25815.6	0.0	25815.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	717.3	2.8
10°-20°	1863.7	7.2
20°-30°	3030.3	11.7
30°-40°	4802.3	18.6
40°-50°	7243.0	28.1
50°-60°	6265.7	24.3
60°-70°	1420.5	5.5
70°-80°	418.8	1.6
80°-90°	53.9	0.2
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°	25815.6	100.0
0°-180°	25815.6	100.0

**Coefficient of Utilization**



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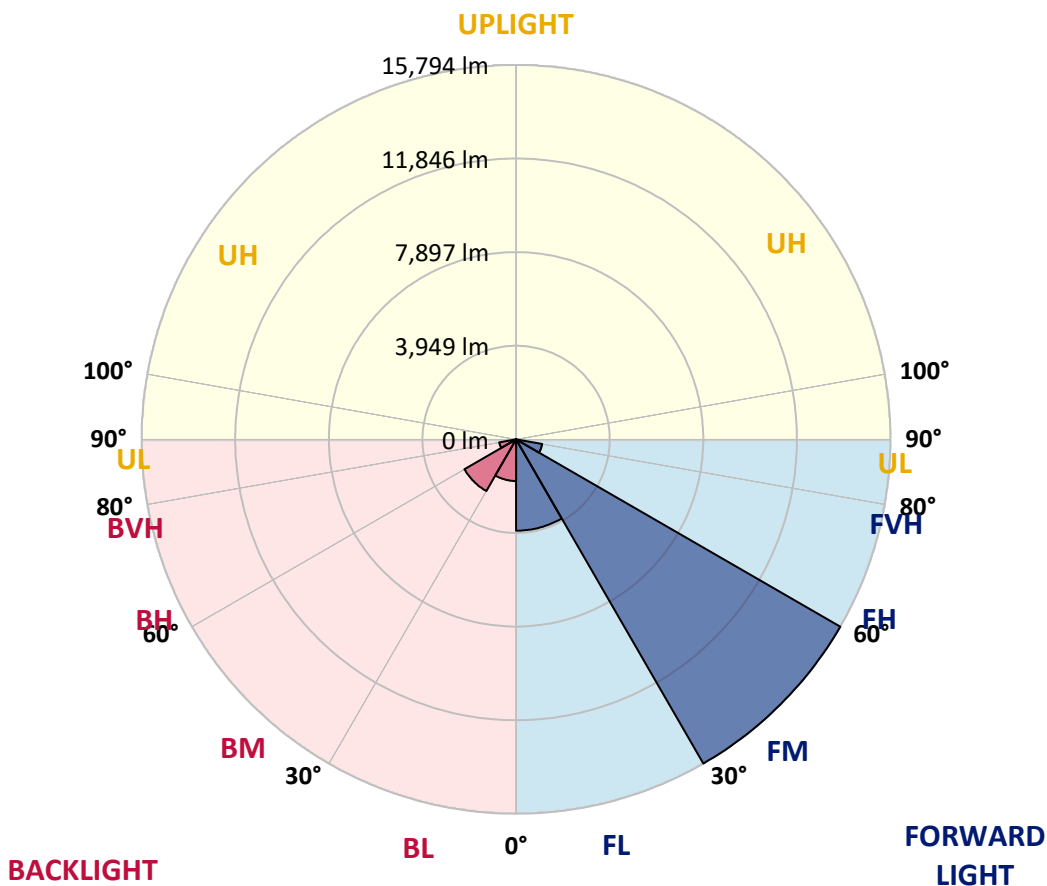
CATALOG NUMBER: GWS-SA6D-830-U-AFL-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3853.0	14.9			
FM (30°-60°)	15794.4	61.2			
FH (60°-80°)	1117.9	4.3			G1/1800
FVH (80°-90°)	20.3	0.1			G1/100
BL (0°-30°)	1758.3	6.8	B3/2500		
BM (30°-60°)	2516.6	9.7	B3/5000		
BH (60°-80°)	721.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	33.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	7686.6	7686.6	7686.6	7686.6	7686.6	7686.6	7686.6	7686.6	7686.6	7686.6	7686.6
2.5°	8565.8	8614.8	8539.3	8510.7	8463.8	8382.2	8288.4	8261.9	8059.9	7927.3	7778.4
5°	9426.7	9453.2	9392.0	9330.8	9214.5	9069.7	8888.1	8849.4	8482.2	8178.2	7862.0
7.5°	9618.4	9608.2	9661.3	9696.0	9681.7	9624.6	9463.4	9387.9	8949.3	8467.9	8000.7
10°	8859.6	8802.5	8998.3	9230.8	9510.3	9832.6	9814.3	9808.2	9426.7	8857.5	8178.2
12.5°	7853.9	7825.3	7984.4	8276.1	8804.5	9518.5	9785.7	9993.8	9857.1	9228.8	8376.1
15°	7278.6	7268.4	7376.5	7586.6	8006.9	8908.5	9479.7	9891.8	10226.3	9626.6	8586.2
17.5°	7174.6	7180.7	7217.4	7337.8	7639.7	8382.2	9043.2	9618.4	10514.0	10063.2	8849.4
20°	7478.5	7519.3	7456.1	7474.4	7637.6	8192.5	8745.3	9343.0	10697.6	10501.7	9132.9
22.5°	8153.7	8139.5	8000.7	7919.1	7921.2	8308.8	8712.7	9214.5	10817.9	10928.1	9390.0
25°	8918.7	8902.4	8737.2	8555.6	8441.4	8625.0	8947.3	9351.2	10926.1	11317.7	9596.0
27.5°	9822.4	9771.4	9587.8	9355.3	9102.3	9181.9	9400.2	9720.4	11093.3	11701.2	9732.7
30°	10697.6	10756.7	10493.6	10218.2	9951.0	9902.0	10028.5	10318.1	11434.0	12150.0	9895.9
32.5°	11858.3	11837.9	11546.2	11187.2	10805.7	10769.0	10868.9	11134.1	12046.0	12770.2	10144.8
35°	13263.9	13267.9	12853.8	12368.3	11825.7	11727.8	11895.0	12152.1	12957.9	13610.7	10538.5
37.5°	14724.5	14718.4	14357.3	13806.5	13066.0	12927.3	13119.0	13310.8	14098.2	14755.1	11150.5
40°	15748.5	15789.3	15620.0	15330.3	14628.6	14290.0	14459.3	14591.9	15338.5	16101.5	11956.2
42.5°	16329.9	16391.1	16427.8	16601.2	16232.0	15870.9	15809.7	15879.1	16446.2	17352.0	12713.1
45°	16454.4	16536.0	16803.2	17445.8	17588.6	17486.6	17286.7	17119.4	17272.4	18239.3	13208.8
47.5°	15905.6	16048.4	16619.6	17743.6	18578.0	18898.2	18675.9	18420.9	17749.7	18467.8	13157.8
50°	13731.0	13898.3	15185.5	17135.7	18718.7	19885.6	19906.0	19528.6	17692.6	17808.9	12517.2
52.5°	10871.0	10985.2	11721.6	14526.6	17337.7	19844.8	20660.8	20256.9	17417.2	16984.8	11715.5
55°	6497.3	6680.9	7368.4	9583.8	13506.6	17588.6	19326.6	19522.5	17282.6	16293.2	11168.8
57.5°	2193.0	2282.7	2939.6	4232.9	7959.9	12878.3	14932.6	15728.1	15689.4	15236.5	10101.9
60°	1044.5	1064.9	1197.5	1605.5	3186.4	6729.8	8839.2	9757.2	10593.5	10677.2	6285.1
62.5°	795.6	807.8	875.1	962.9	1281.1	2835.6	4051.4	4753.1	5077.5	4357.4	2288.8
65°	665.0	675.2	726.2	781.3	871.1	1228.1	1554.5	1793.1	1615.7	1258.7	1091.4
67.5°	554.9	563.0	601.8	660.9	722.1	822.1	862.9	887.4	930.2	1044.5	1003.7
70°	434.5	442.7	483.5	534.5	593.6	618.1	656.9	681.3	767.0	913.9	909.8
72.5°	334.6	344.8	367.2	399.8	448.8	473.3	516.1	544.7	593.6	711.9	760.9
75°	244.8	250.9	271.3	281.5	287.6	281.5	324.4	357.0	422.3	467.2	479.4
77.5°	100.0	112.2	108.1	108.1	128.5	155.0	177.5	197.9	242.8	269.3	271.3
80°	40.8	44.9	53.0	59.2	71.4	91.8	106.1	114.2	134.6	151.0	163.2
82.5°	24.5	26.5	30.6	32.6	40.8	53.0	61.2	67.3	83.6	100.0	106.1
85°	12.2	12.2	14.3	16.3	20.4	24.5	28.6	32.6	42.8	53.0	59.2
87.5°	2.0	2.0	2.0	4.1	6.1	8.2	10.2	12.2	14.3	16.3	20.4
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7686.6	7686.6	7686.6	7686.6	7686.6	7686.6	7686.6	7686.6	7686.6	7686.6	7686.6
2.5°	7690.7	7580.5	7452.0	7350.0	7231.7	7144.0	7019.5	6942.0	6868.6	6807.4	6762.5
5°	7698.8	7513.2	7246.0	7009.3	6764.5	6532.0	6293.3	6099.5	5926.1	5781.3	5769.0
7.5°	7745.8	7478.5	7060.3	6646.2	6168.9	5707.8	5246.8	4871.4	4585.8	4436.9	4406.3
10°	7825.3	7474.4	6870.6	6209.7	5395.7	4653.2	4106.5	3820.9	3655.6	3596.5	3576.1
12.5°	7908.9	7464.2	6627.8	5593.6	4463.4	3812.7	3512.8	3478.1	3508.7	3512.8	3510.8
15°	8010.9	7458.1	6321.9	4871.4	3782.1	3423.1	3443.5	3516.9	3588.3	3604.6	3604.6
17.5°	8135.4	7443.8	5905.7	4165.6	3355.7	3347.6	3455.7	3553.6	3620.9	3633.2	3633.2
20°	8265.9	7407.1	5393.7	3590.3	3182.3	3300.7	3416.9	3492.4	3539.3	3555.7	3557.7
22.5°	8355.7	7309.2	4804.1	3164.0	3074.2	3210.9	3294.5	3372.1	3372.1	3331.3	3319.0
25°	8374.1	7099.1	4165.6	2872.3	2945.7	3072.2	3157.9	3113.0	3029.3	2996.7	2994.7
27.5°	8306.7	6793.1	3535.3	2664.2	2790.7	2917.2	2902.9	2837.6	2800.9	2768.2	2780.5
30°	8225.1	6425.9	2988.6	2492.8	2611.2	2735.6	2686.6	2664.2	2637.7	2601.0	2609.1
32.5°	8170.1	6015.9	2568.3	2360.2	2490.8	2511.2	2545.9	2543.8	2519.4	2450.0	2445.9
35°	8186.4	5601.7	2286.8	2252.1	2390.8	2382.7	2448.0	2435.7	2266.4	2170.5	2164.4
37.5°	8316.9	5204.0	2121.6	2166.4	2231.7	2282.7	2339.8	2193.0	2133.8	2072.6	2076.7
40°	8565.8	4834.7	2031.8	2119.5	2135.8	2211.3	2078.7	2076.7	2050.2	1995.1	1993.0
42.5°	8847.3	4522.6	1970.6	2097.1	2074.6	2088.9	1948.2	1964.5	1962.4	1927.8	1917.6
45°	9018.7	4235.0	1921.6	2013.4	2019.6	1876.8	1833.9	1852.3	1862.5	1844.1	1842.1
47.5°	8841.2	3904.5	1870.6	1884.9	1938.0	1780.9	1727.9	1729.9	1748.3	1750.3	1742.1
50°	8343.5	3535.3	1809.4	1774.8	1740.1	1680.9	1632.0	1621.8	1640.1	1658.5	1664.6
52.5°	7700.9	3182.3	1707.5	1654.4	1572.8	1572.8	1550.4	1517.7	1542.2	1566.7	1574.9
55°	7229.6	2921.2	1562.6	1503.5	1413.7	1444.3	1440.2	1411.7	1444.3	1462.7	1468.8
57.5°	6264.7	2348.0	1374.9	1356.6	1281.1	1317.8	1326.0	1289.3	1272.9	1277.0	1283.1
60°	3718.9	1515.7	1240.3	1238.3	1170.9	1213.8	1238.3	1201.5	1152.6	1158.7	1166.9
62.5°	1668.7	1158.7	1071.0	1062.8	1060.8	1115.9	1142.4	1107.7	1038.3	1044.5	1052.6
65°	1050.6	1001.6	930.2	930.2	962.9	1009.8	1030.2	1001.6	922.1	911.9	920.0
67.5°	975.1	932.3	858.8	844.5	860.9	899.6	901.7	846.6	799.7	791.5	791.5
70°	875.1	842.5	771.1	742.5	736.4	734.4	728.3	714.0	683.4	675.2	679.3
72.5°	724.2	701.7	656.9	626.3	609.9	607.9	583.4	571.2	544.7	540.6	538.6
75°	479.4	485.5	485.5	481.4	467.2	461.0	434.5	422.3	391.7	379.4	377.4
77.5°	283.6	289.7	297.8	299.9	297.8	297.8	273.4	259.1	228.5	212.2	208.1
80°	173.4	177.5	181.6	187.7	179.5	173.4	151.0	136.7	122.4	112.2	110.2
82.5°	112.2	116.3	118.3	122.4	118.3	110.2	91.8	83.6	73.4	65.3	63.2
85°	63.2	65.3	69.4	69.4	63.2	57.1	46.9	40.8	34.7	30.6	30.6
87.5°	22.4	22.4	22.4	24.5	20.4	18.4	12.2	8.2	6.1	6.1	6.1
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

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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)