

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: P639448

Luminaire Tested: GWS-SA5B-830-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-830-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14742.5 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

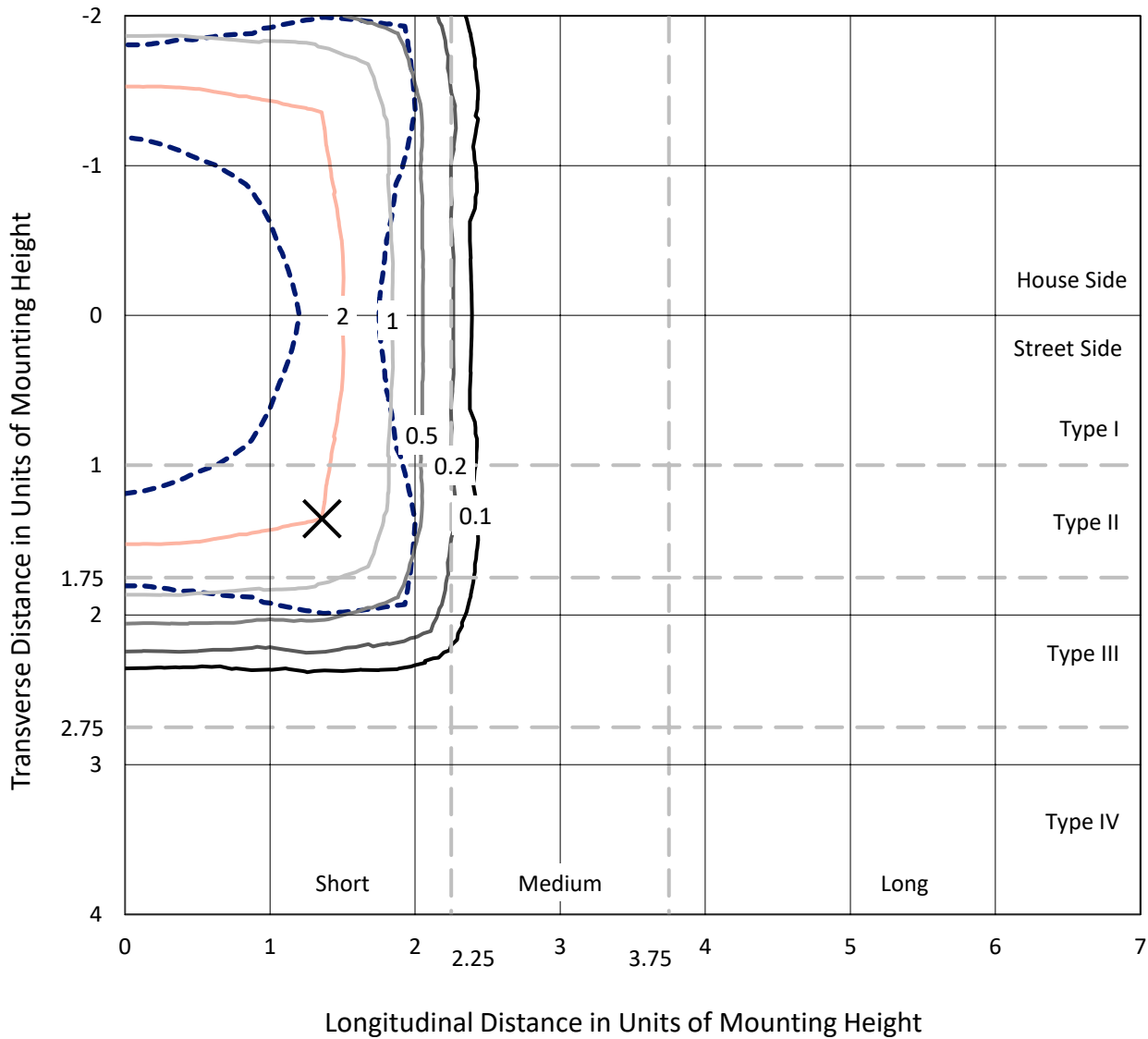
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

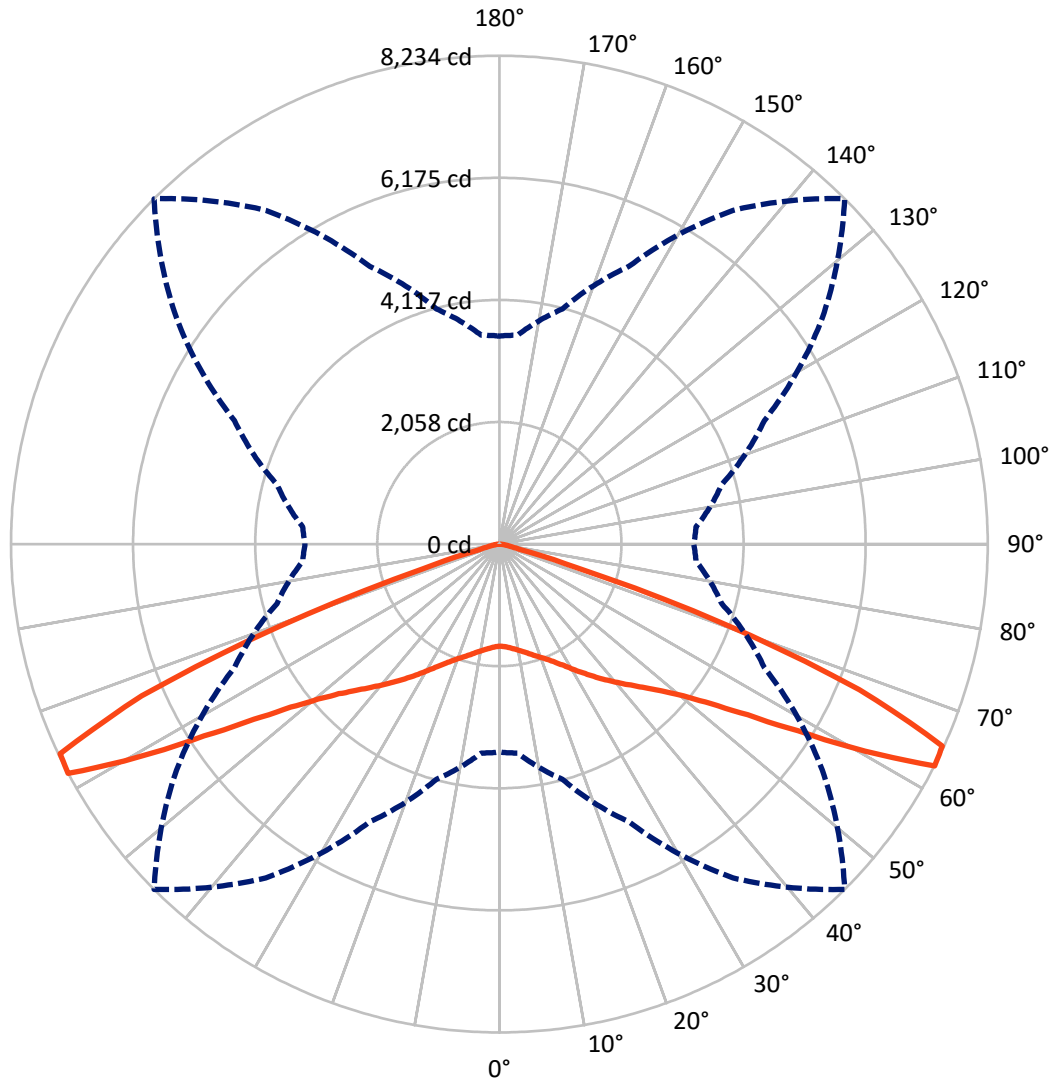
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7371.2	0.0	7371.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7371.2	0.0	7371.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	14742.5	0.0	14742.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	1.1
10°-20°	544.2	3.7
20°-30°	1029.5	7.0
30°-40°	1732.8	11.8
40°-50°	2768.6	18.8
50°-60°	4462.8	30.3
60°-70°	3641.1	24.7
70°-80°	353.6	2.4
80°-90°	41.1	0.3
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°	14742.5	100.0
0°-180°	14742.5	100.0

Coefficient of Utilization



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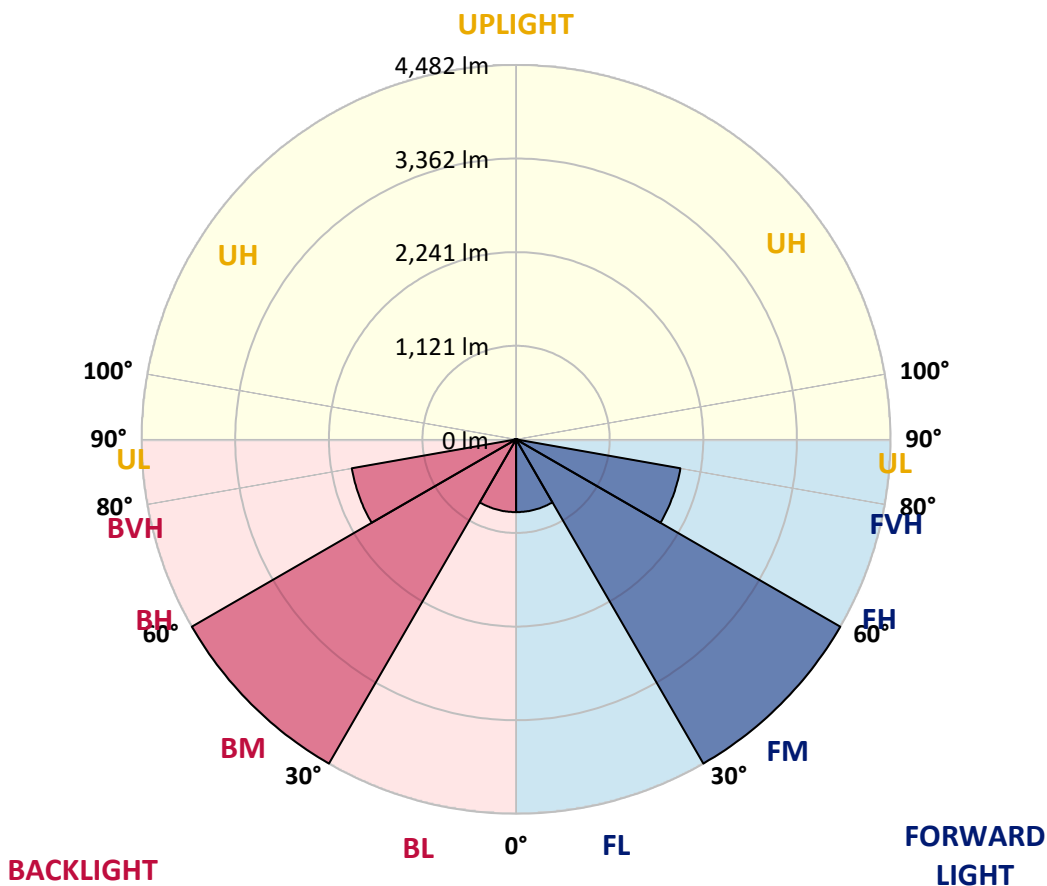
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	871.2	5.9			
FM (30°-60°)	4482.1	30.4			
FH (60°-80°)	1997.4	13.5			G2/5000
FVH (80°-90°)	20.6	0.1			G1/100
BL (0°-30°)	871.2	5.9	B2/1000		
BM (30°-60°)	4482.1	30.4	B3/5000		
BH (60°-80°)	1997.4	13.5	B3/2500		G2/5000
BVH (80°-90°)	20.6	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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1719.9	1719.9	1719.9	1719.9	1719.9	1719.9	1719.9	1719.9	1719.9	1719.9	1719.9
2.5°	1717.9	1717.9	1721.9	1725.0	1722.9	1731.0	1730.0	1728.0	1727.0	1724.0	1733.1
5°	1741.1	1741.1	1744.2	1747.2	1742.2	1752.3	1748.2	1746.2	1745.2	1741.1	1749.2
7.5°	1767.4	1770.5	1771.5	1776.5	1773.5	1784.6	1781.6	1777.5	1775.5	1770.5	1777.5
10°	1796.8	1798.8	1799.8	1808.9	1809.9	1823.0	1820.0	1815.0	1810.9	1805.9	1816.0
12.5°	1836.2	1837.2	1840.2	1851.4	1854.4	1864.5	1863.5	1856.4	1851.4	1844.3	1855.4
15°	1886.7	1887.8	1892.8	1903.9	1909.0	1921.1	1917.1	1906.0	1898.9	1890.8	1899.9
17.5°	1939.3	1943.4	1948.4	1959.5	1966.6	1980.8	1975.7	1963.6	1957.5	1949.4	1955.5
20°	2007.1	2008.1	2011.1	2023.2	2028.3	2044.5	2045.5	2033.4	2030.3	2022.2	2031.3
22.5°	2081.9	2082.9	2085.9	2099.1	2108.2	2118.3	2124.4	2117.3	2112.2	2102.1	2113.2
25°	2164.8	2174.9	2177.9	2194.1	2204.2	2210.3	2217.4	2214.3	2207.3	2195.1	2200.2
27.5°	2281.1	2283.1	2288.2	2306.4	2312.4	2318.5	2325.6	2326.6	2316.5	2302.3	2309.4
30°	2413.5	2412.5	2423.6	2437.8	2442.9	2447.9	2458.0	2464.1	2450.9	2435.8	2442.9
32.5°	2549.0	2561.2	2575.3	2588.5	2585.4	2587.5	2603.6	2614.8	2596.6	2569.3	2575.3
35°	2701.7	2709.8	2728.0	2747.2	2743.2	2740.1	2750.2	2761.4	2736.1	2700.7	2709.8
37.5°	2858.4	2870.6	2897.9	2921.1	2915.1	2900.9	2912.0	2924.2	2899.9	2859.4	2855.4
40°	3033.4	3052.6	3092.0	3111.2	3095.0	3067.7	3086.9	3116.3	3092.0	3045.5	3034.4
42.5°	3238.6	3261.9	3301.3	3330.6	3295.2	3250.7	3283.1	3325.6	3319.5	3257.8	3238.6
45°	3492.4	3507.6	3556.1	3570.3	3517.7	3456.0	3514.6	3579.4	3564.2	3497.5	3472.2
47.5°	3768.4	3791.7	3834.2	3860.4	3775.5	3698.7	3780.6	3867.5	3851.3	3788.7	3759.3
50°	4120.3	4150.6	4206.3	4228.5	4111.2	4023.2	4128.4	4238.6	4207.3	4123.3	4084.9
52.5°	4503.5	4527.8	4622.8	4667.3	4557.1	4462.1	4554.1	4662.3	4595.5	4484.3	4432.7
55°	4841.2	4865.5	5005.0	5152.7	5147.6	5081.9	5128.4	5130.4	4949.4	4765.4	4710.8
57.5°	4914.0	4938.3	5204.2	5590.5	5863.5	5939.3	5802.8	5515.6	5059.6	4737.1	4675.4
60°	4525.8	4553.1	4975.7	5681.5	6579.3	7085.9	6457.0	5507.6	4718.9	4282.1	4223.4
62.5°	3506.6	3535.9	4104.1	5163.8	6868.5	8233.5	6647.1	4928.2	3881.7	3328.6	3277.0
65°	1674.4	1674.4	2396.3	3703.7	6292.2	8206.2	6097.0	3646.1	2336.7	1794.7	1750.2
67.5°	414.6	416.6	616.8	1441.9	4280.1	6549.0	4349.8	1750.2	823.0	582.4	567.2
70°	258.8	257.8	286.1	390.3	1497.5	3974.7	1778.6	527.8	334.7	295.2	293.2
72.5°	201.2	201.2	215.4	249.7	392.3	1353.9	518.7	293.2	242.7	218.4	218.4
75°	158.7	158.7	168.9	187.1	231.5	348.8	276.0	217.4	188.1	171.9	169.9
77.5°	118.3	120.3	128.4	140.5	157.7	196.2	174.9	163.8	146.6	134.5	130.4
80°	76.8	79.9	90.0	97.1	103.1	129.4	114.3	119.3	111.2	97.1	95.0
82.5°	41.5	42.5	54.6	56.6	58.6	70.8	72.8	75.8	78.9	61.7	57.6
85°	15.2	15.2	18.2	21.2	23.3	25.3	34.4	42.5	44.5	35.4	34.4
87.5°	3.0	3.0	3.0	2.0	2.0	2.0	6.1	11.1	18.2	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)