

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: P638514

Luminaire Tested: GWS-SA4F-722-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-722-U-5WQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13189.2 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 225.3
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

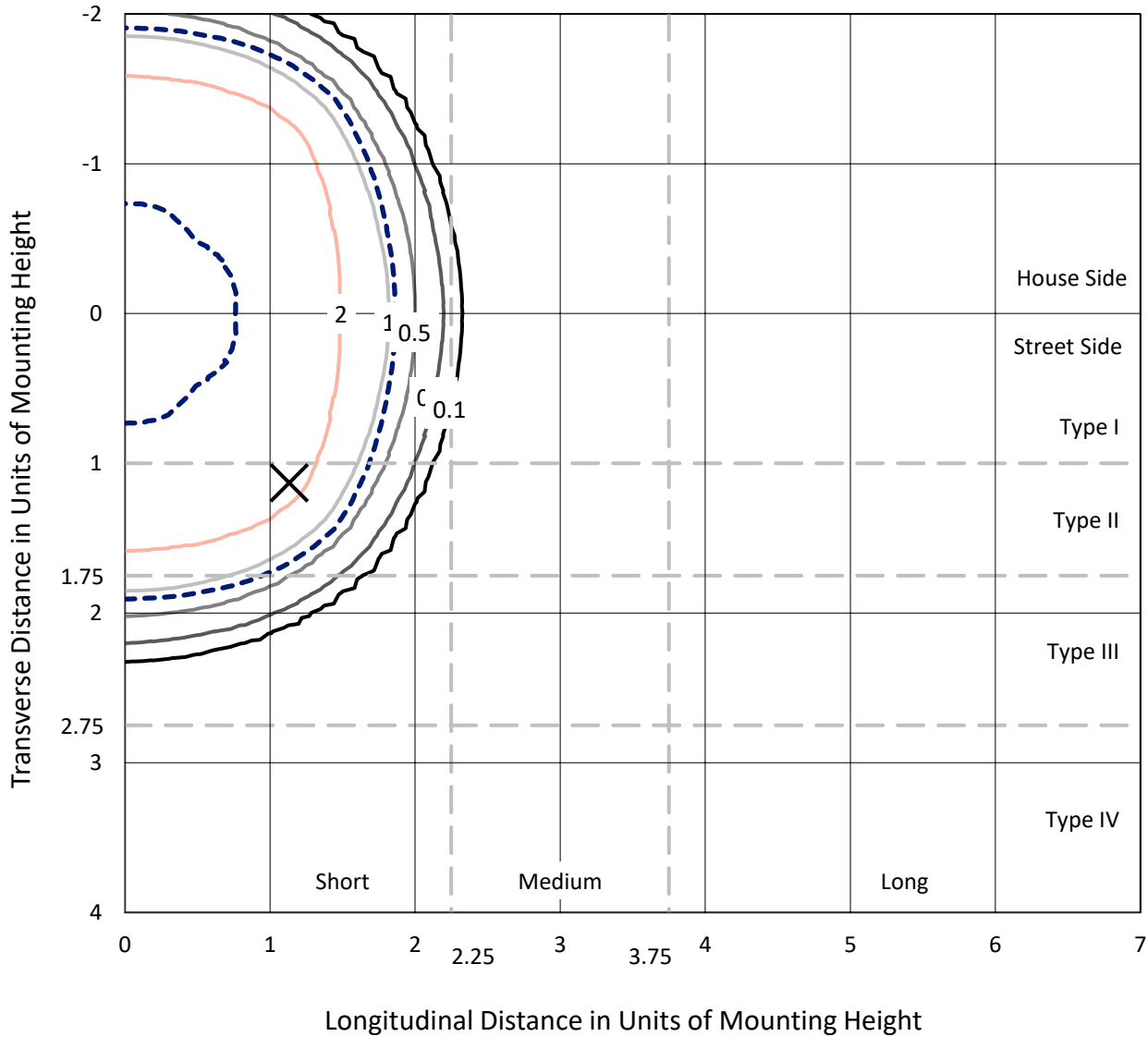


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Iso-Footcandle Lines of Horizontal Illumination

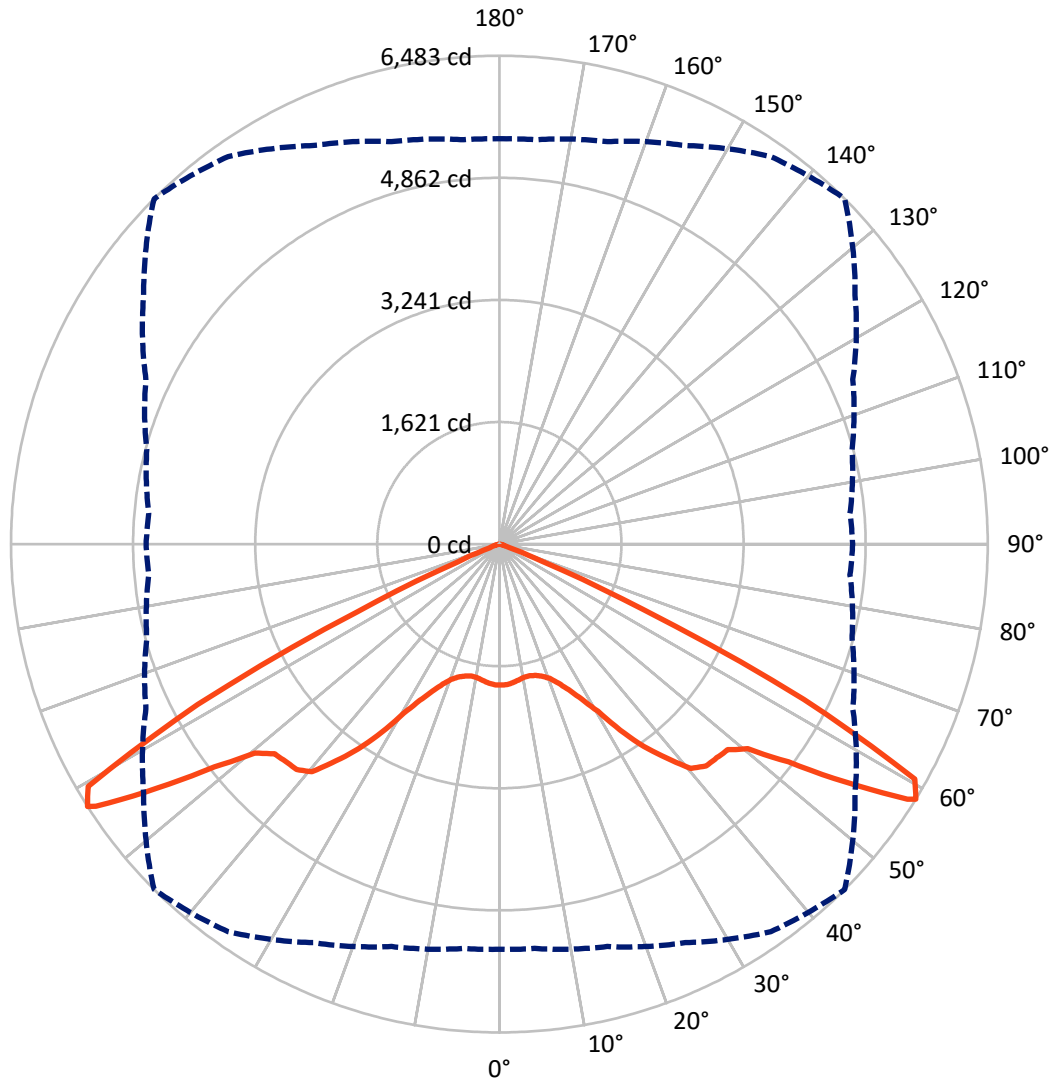
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6594.6	0.0	6594.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6594.6	0.0	6594.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	13189.2	0.0	13189.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	1.3
10°-20°	516.4	3.9
20°-30°	976.6	7.4
30°-40°	1926.1	14.6
40°-50°	3048.0	23.1
50°-60°	4480.3	34.0
60°-70°	1999.8	15.2
70°-80°	67.0	0.5
80°-90°	0.6	0.0
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°	13189.2	100.0
0°-180°	13189.2	100.0

Coefficient of Utilization



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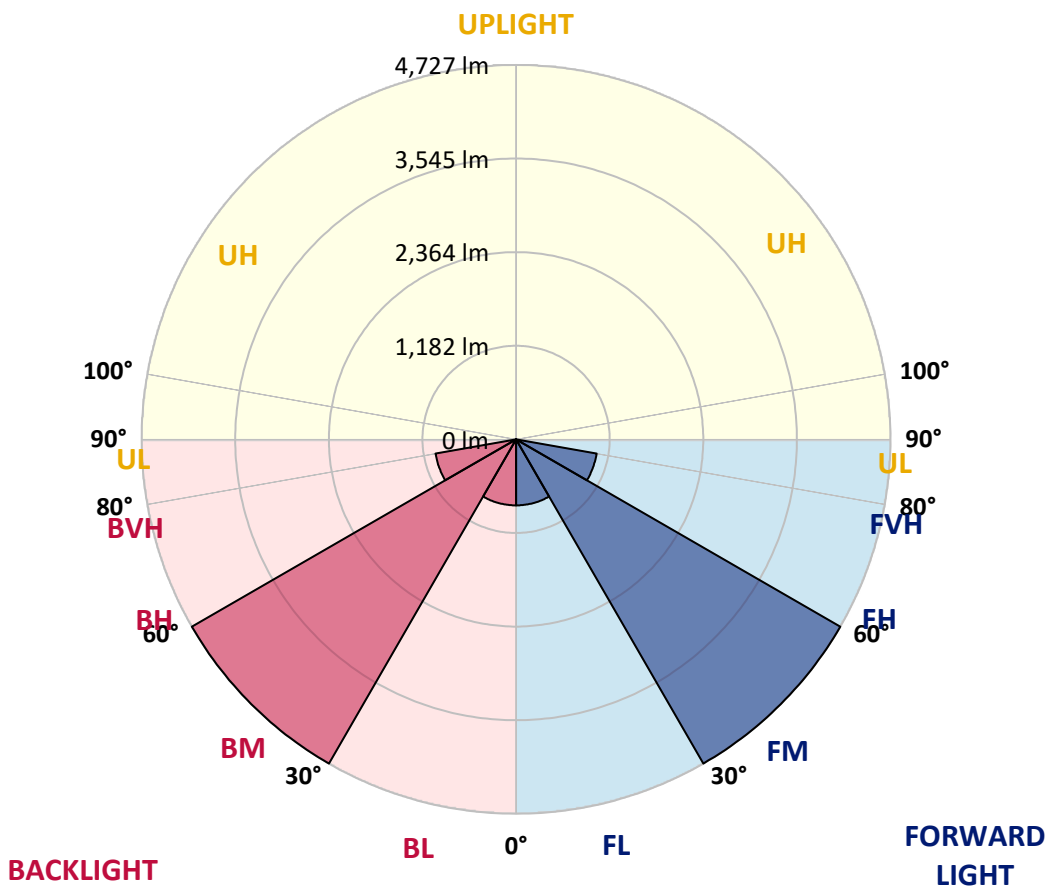
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.7	6.3			
FM (30°-60°)	4727.2	35.8			
FH (60°-80°)	1033.4	7.8			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	833.7	6.3	B2/1000		
BM (30°-60°)	4727.2	35.8	B3/5000		
BH (60°-80°)	1033.4	7.8	B3/2500		G1/1800
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1870.4	1870.4	1870.4	1870.4	1870.4	1870.4	1870.4	1870.4	1870.4	1870.4	1870.4
2.5°	1852.4	1856.0	1859.6	1861.4	1863.2	1868.6	1870.4	1865.0	1865.0	1854.2	1866.8
5°	1843.5	1847.0	1850.6	1848.8	1848.8	1848.8	1847.0	1839.9	1838.1	1827.3	1839.9
7.5°	1827.3	1830.9	1830.9	1825.5	1821.9	1821.9	1820.1	1811.1	1809.3	1798.5	1811.1
10°	1814.7	1816.5	1814.7	1803.9	1796.7	1796.7	1794.9	1791.3	1793.1	1786.0	1796.7
12.5°	1821.9	1823.7	1816.5	1802.1	1793.1	1791.3	1786.0	1780.6	1786.0	1784.2	1794.9
15°	1845.2	1847.0	1834.5	1816.5	1809.3	1809.3	1794.9	1780.6	1787.8	1789.6	1802.1
17.5°	1874.0	1874.0	1857.8	1841.7	1843.5	1843.5	1820.1	1794.9	1796.7	1803.9	1816.5
20°	1908.1	1908.1	1892.0	1888.4	1900.9	1902.7	1874.0	1834.5	1825.5	1830.9	1845.2
22.5°	1969.2	1969.2	1956.6	1965.6	1994.4	2003.4	1960.2	1904.5	1883.0	1886.6	1900.9
25°	2064.5	2064.5	2060.9	2082.4	2123.7	2143.5	2086.0	2012.3	1976.4	1971.0	1987.2
27.5°	2224.4	2226.2	2220.8	2253.1	2305.2	2328.6	2249.5	2152.5	2109.4	2100.4	2116.6
30°	2431.0	2431.0	2432.8	2477.7	2546.0	2576.5	2472.3	2359.1	2308.8	2280.1	2301.6
32.5°	2661.0	2664.6	2682.5	2758.0	2878.4	2941.3	2788.5	2630.4	2549.6	2519.0	2542.4
35°	3040.1	3005.9	2984.4	3040.1	3214.4	3297.0	3101.2	2916.1	2855.0	2851.4	2910.7
37.5°	3415.6	3395.8	3350.9	3408.4	3564.7	3602.5	3386.9	3232.3	3189.2	3212.6	3271.9
40°	3713.9	3677.9	3618.6	3672.5	3877.4	3915.1	3649.2	3496.5	3480.3	3532.4	3613.2
42.5°	3949.2	3898.9	3819.9	3832.4	3997.7	4024.7	3789.3	3674.3	3685.1	3749.8	3841.4
45°	4055.2	4015.7	3945.6	3940.2	4044.5	4046.3	3861.2	3801.9	3830.6	3881.0	3952.8
47.5°	4100.2	4082.2	4042.7	4033.7	4093.0	4078.6	3963.6	3938.4	3965.4	3979.8	4021.1
50°	4211.6	4211.6	4216.9	4224.1	4285.2	4270.8	4190.0	4161.2	4127.1	4076.8	4089.4
52.5°	4524.2	4536.8	4588.9	4646.4	4757.8	4804.5	4673.3	4506.2	4342.7	4233.1	4233.1
55°	5088.4	5100.9	5162.0	5259.1	5463.9	5575.3	5269.8	4901.5	4676.9	4527.8	4547.5
57.5°	5399.2	5413.6	5539.3	5801.7	6198.7	6387.4	5731.6	5185.4	4871.0	4700.3	4714.6
58°	5379.4	5388.4	5530.4	5837.6	6279.6	6482.6	5763.9	5176.4	4845.8	4671.5	4689.5
60°	4779.3	4766.7	4993.1	5431.5	6055.0	6335.3	5442.3	4725.4	4340.9	4163.0	4172.0
62.5°	3124.5	3131.7	3327.6	3785.7	4270.8	4535.0	3801.9	3268.3	2959.2	2851.4	2824.5
65°	1304.4	1281.1	1401.5	1656.6	1947.7	2095.0	1800.3	1523.6	1333.2	1261.3	1281.1
67.5°	336.0	327.0	334.2	418.6	512.1	605.5	508.5	388.1	337.8	341.4	341.4
70°	190.5	179.7	145.5	134.8	131.2	131.2	131.2	131.2	150.9	177.9	183.3
72.5°	143.7	134.8	106.0	91.6	80.9	75.5	79.1	91.6	109.6	133.0	136.6
75°	71.9	71.9	64.7	61.1	53.9	50.3	52.1	57.5	66.5	75.5	73.7
77.5°	14.4	16.2	18.0	21.6	18.0	18.0	18.0	21.6	21.6	23.4	21.6
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	0.0	1.8	1.8	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)