

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: P638348

Luminaire Tested: GWS-SA4E-760-U-5NQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638348  
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-SA4E-760-U-5NQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

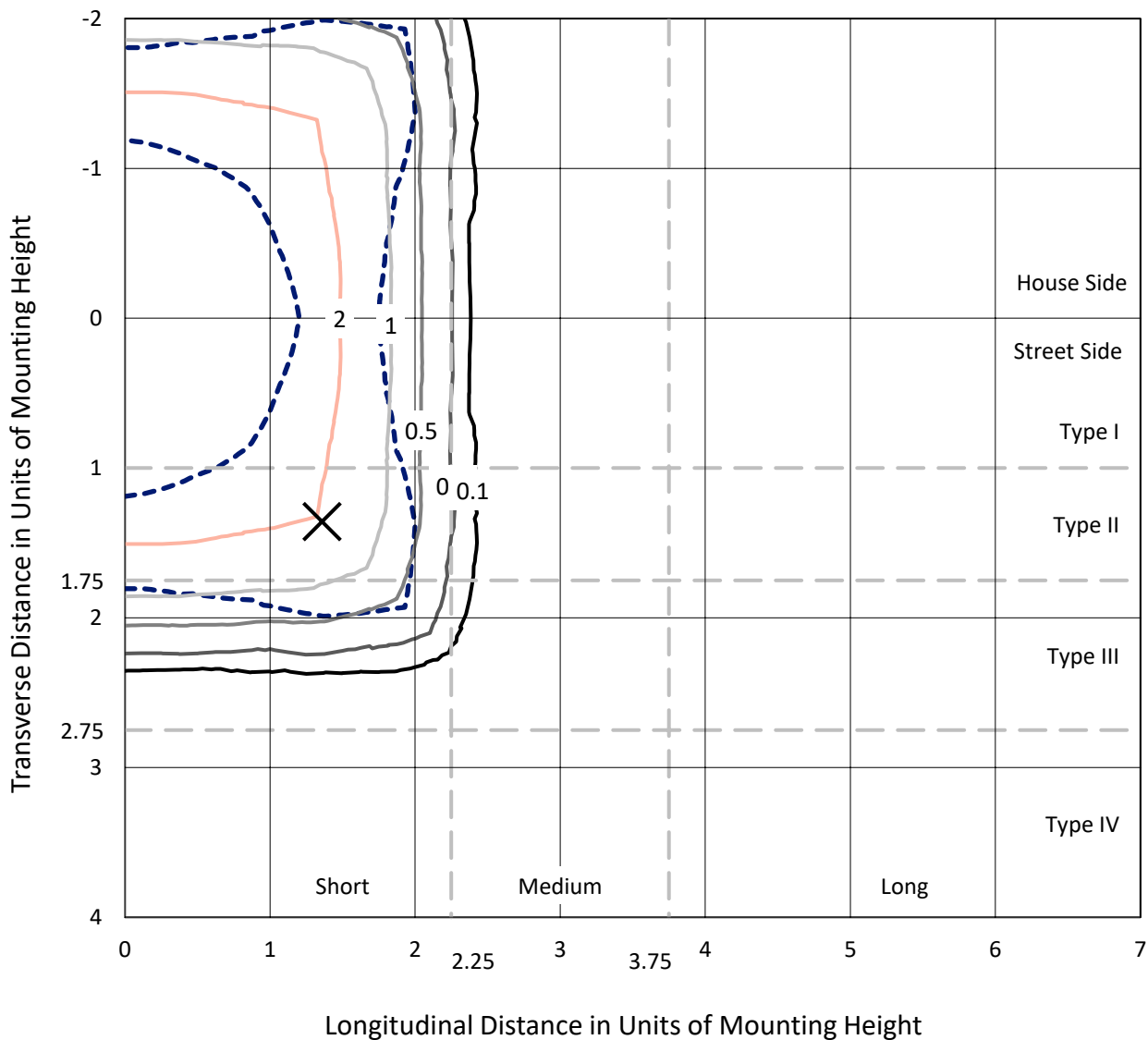
Lumens per Lamp: N/A  
Luminaire Lumens: 32270.4 lumens  
Efficiency: N/A  
Efficacy: 159.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

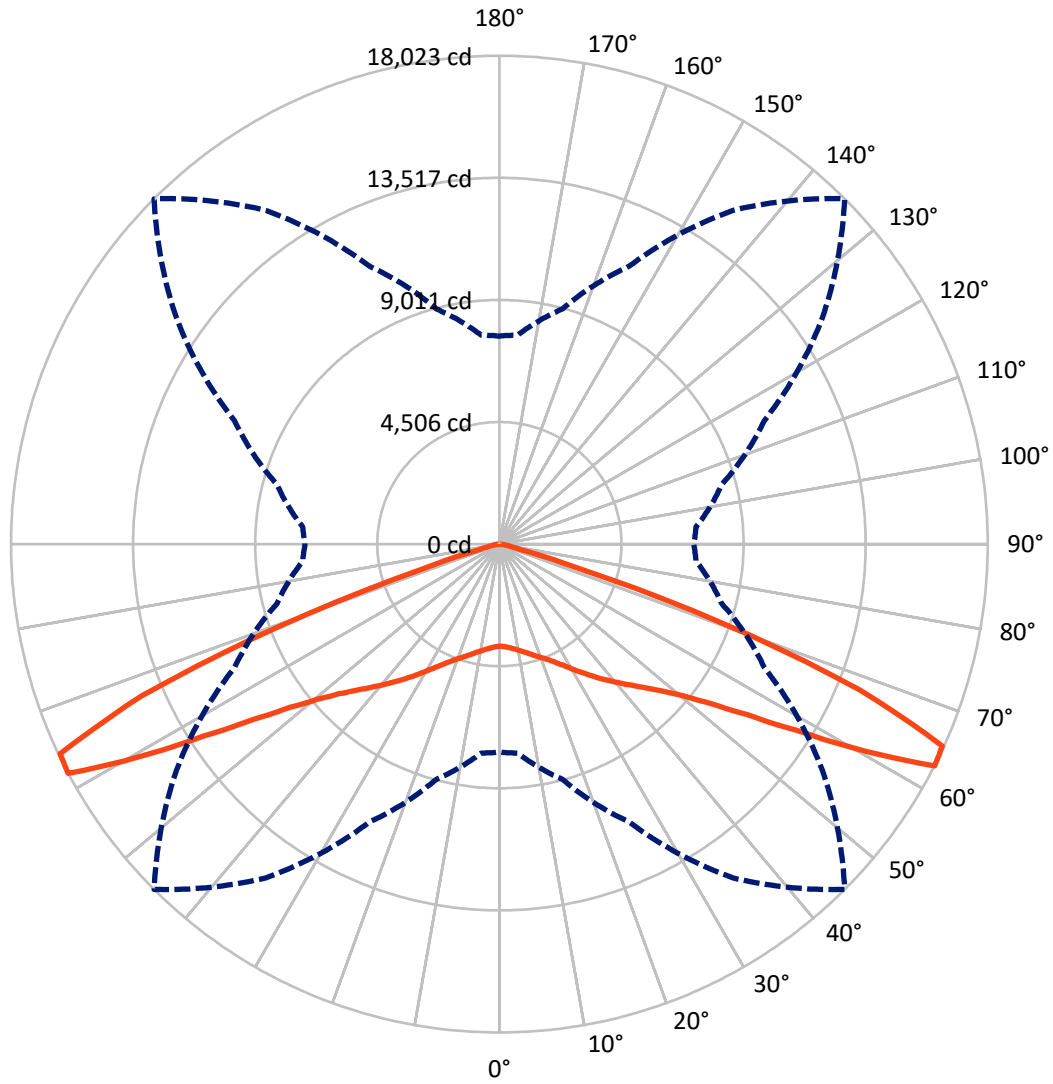
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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
<b>House Side</b>	Lumens	16135.2	0.0	16135.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16135.2	0.0	16135.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32270.4	0.0	32270.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.4	1.1
10°-20°	1191.2	3.7
20°-30°	2253.6	7.0
30°-40°	3793.1	11.8
40°-50°	6060.2	18.8
50°-60°	9768.8	30.3
60°-70°	7970.2	24.7
70°-80°	774.0	2.4
80°-90°	90.1	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°	32270.4	100.0
0°-180°	32270.4	100.0

**Coefficient of Utilization**



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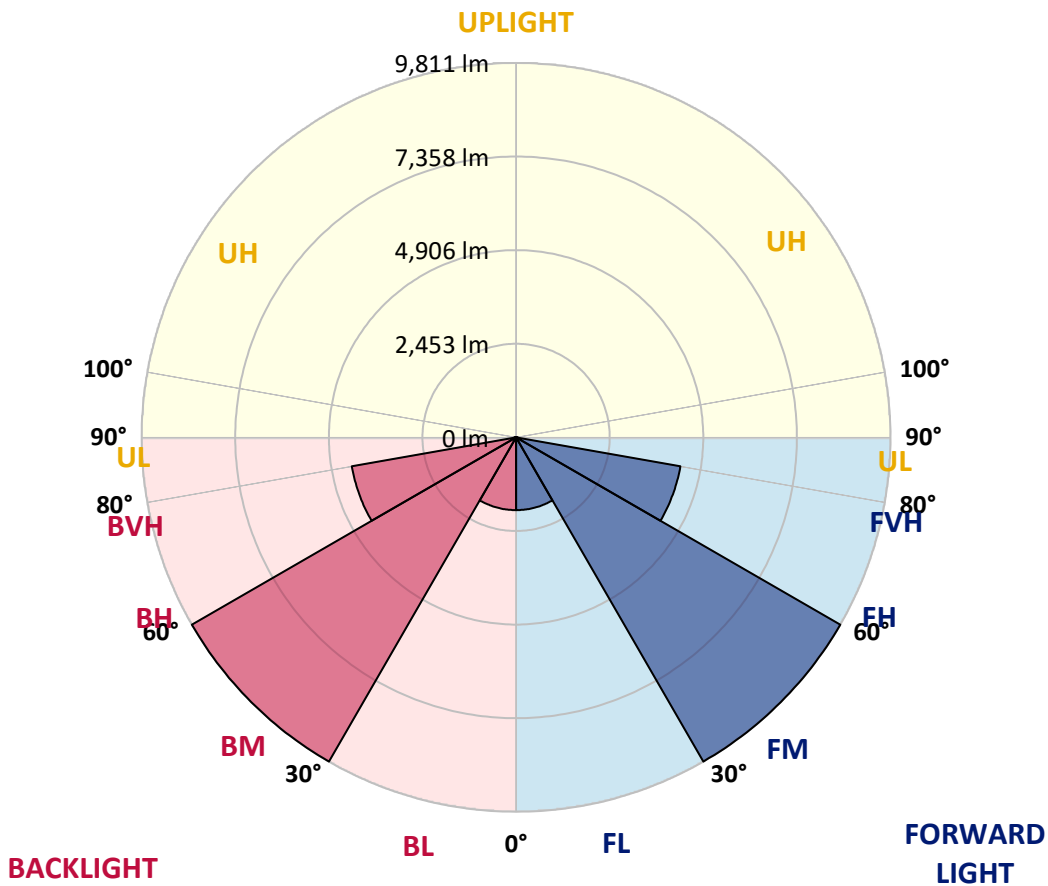
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1907.1	5.9			
FM (30°-60°)	9811.0	30.4			
FH (60°-80°)	4372.1	13.5			G2/5000
FVH (80°-90°)	45.0	0.1			G1/100
BL (0°-30°)	1907.1	5.9	B3/2500		
BM (30°-60°)	9811.0	30.4	B5		
BH (60°-80°)	4372.1	13.5	B4/5000		G2/5000
BVH (80°-90°)	45.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3764.8	3764.8	3764.8	3764.8	3764.8	3764.8	3764.8	3764.8	3764.8	3764.8	3764.8
2.5°	3760.4	3760.4	3769.2	3775.8	3771.4	3789.1	3786.9	3782.5	3780.3	3773.6	3793.5
5°	3811.3	3811.3	3817.9	3824.5	3813.5	3835.6	3826.7	3822.3	3820.1	3811.3	3829.0
7.5°	3868.8	3875.4	3877.7	3888.7	3882.1	3906.4	3899.8	3890.9	3886.5	3875.4	3890.9
10°	3933.0	3937.4	3939.6	3959.5	3961.8	3990.5	3983.9	3972.8	3964.0	3952.9	3975.0
12.5°	4019.3	4021.5	4028.2	4052.5	4059.1	4081.3	4079.1	4063.6	4052.5	4037.0	4061.4
15°	4130.0	4132.2	4143.2	4167.6	4178.7	4205.2	4196.4	4172.0	4156.5	4138.8	4158.7
17.5°	4245.1	4253.9	4265.0	4289.3	4304.8	4335.8	4324.7	4298.2	4284.9	4267.2	4280.5
20°	4393.3	4395.6	4402.2	4428.8	4439.8	4475.2	4477.5	4450.9	4444.3	4426.5	4446.5
22.5°	4557.1	4559.3	4566.0	4594.8	4614.7	4636.8	4650.1	4634.6	4623.5	4601.4	4625.7
25°	4738.6	4760.8	4767.4	4802.8	4824.9	4838.2	4853.7	4847.1	4831.6	4805.0	4816.1
27.5°	4993.1	4997.6	5008.6	5048.5	5061.8	5075.0	5090.5	5092.7	5070.6	5039.6	5055.1
30°	5283.1	5280.9	5305.2	5336.2	5347.3	5358.3	5380.5	5393.7	5365.0	5331.8	5347.3
32.5°	5579.7	5606.2	5637.2	5666.0	5659.3	5663.8	5699.2	5723.5	5683.7	5623.9	5637.2
35°	5913.9	5931.6	5971.4	6013.5	6004.6	5998.0	6020.1	6044.4	5989.1	5911.7	5931.6
37.5°	6256.9	6283.5	6343.2	6394.1	6380.9	6349.9	6374.2	6400.8	6347.7	6259.1	6250.3
40°	6639.8	6681.9	6768.2	6810.2	6774.8	6715.1	6757.1	6821.3	6768.2	6666.4	6642.0
42.5°	7089.1	7140.0	7226.3	7290.5	7213.1	7115.7	7186.5	7279.5	7266.2	7131.2	7089.1
45°	7644.6	7677.8	7784.1	7815.1	7700.0	7565.0	7693.3	7835.0	7801.8	7655.7	7600.4
47.5°	8248.9	8299.8	8392.7	8450.3	8264.4	8096.2	8275.4	8465.8	8430.4	8293.1	8228.9
50°	9019.1	9085.5	9207.2	9255.9	8999.2	8806.6	9036.8	9278.0	9209.4	9025.7	8941.6
52.5°	9857.9	9911.0	10119.1	10216.5	9975.2	9767.2	9968.6	10205.4	10059.3	9815.9	9703.0
55°	10597.2	10650.3	10955.7	11278.8	11267.8	11123.9	11225.7	11230.1	10834.0	10431.2	10311.6
57.5°	10756.5	10809.6	11391.7	12237.2	12834.8	13000.8	12702.0	12073.4	11075.2	10369.2	10234.2
60°	9906.6	9966.4	10891.5	12436.4	14401.8	15510.6	14134.0	12055.7	10329.3	9373.2	9244.8
62.5°	7675.6	7739.8	8983.7	11303.2	15034.8	18022.7	14550.1	10787.5	8496.8	7286.1	7173.2
65°	3665.2	3665.2	5245.5	8107.2	13773.2	17962.9	13346.0	7981.1	5114.9	3928.6	3831.2
67.5°	907.4	911.9	1350.1	3156.1	9368.8	14335.4	9521.5	3831.2	1801.6	1274.8	1241.6
70°	566.6	564.4	626.4	854.3	3277.9	8700.4	3893.1	1155.3	732.6	646.3	641.8
72.5°	440.4	440.4	471.4	546.7	858.7	2963.6	1135.4	641.8	531.2	478.1	478.1
75°	347.5	347.5	369.6	409.5	506.8	763.6	604.2	475.9	411.7	376.3	371.8
77.5°	259.0	263.4	281.1	307.6	345.3	429.4	382.9	358.6	320.9	294.4	285.5
80°	168.2	174.8	197.0	212.5	225.8	283.3	250.1	261.2	243.5	212.5	208.0
82.5°	90.7	93.0	119.5	123.9	128.4	154.9	159.4	166.0	172.6	135.0	126.2
85°	33.2	33.2	39.8	46.5	50.9	55.3	75.3	93.0	97.4	77.5	75.3
87.5°	6.6	6.6	6.6	4.4	4.4	4.4	13.3	24.3	39.8	31.0	31.0
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)