

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: P638020

Luminaire Tested: GWS-SA4E-722-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-722-U-5WQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19037.6 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - 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

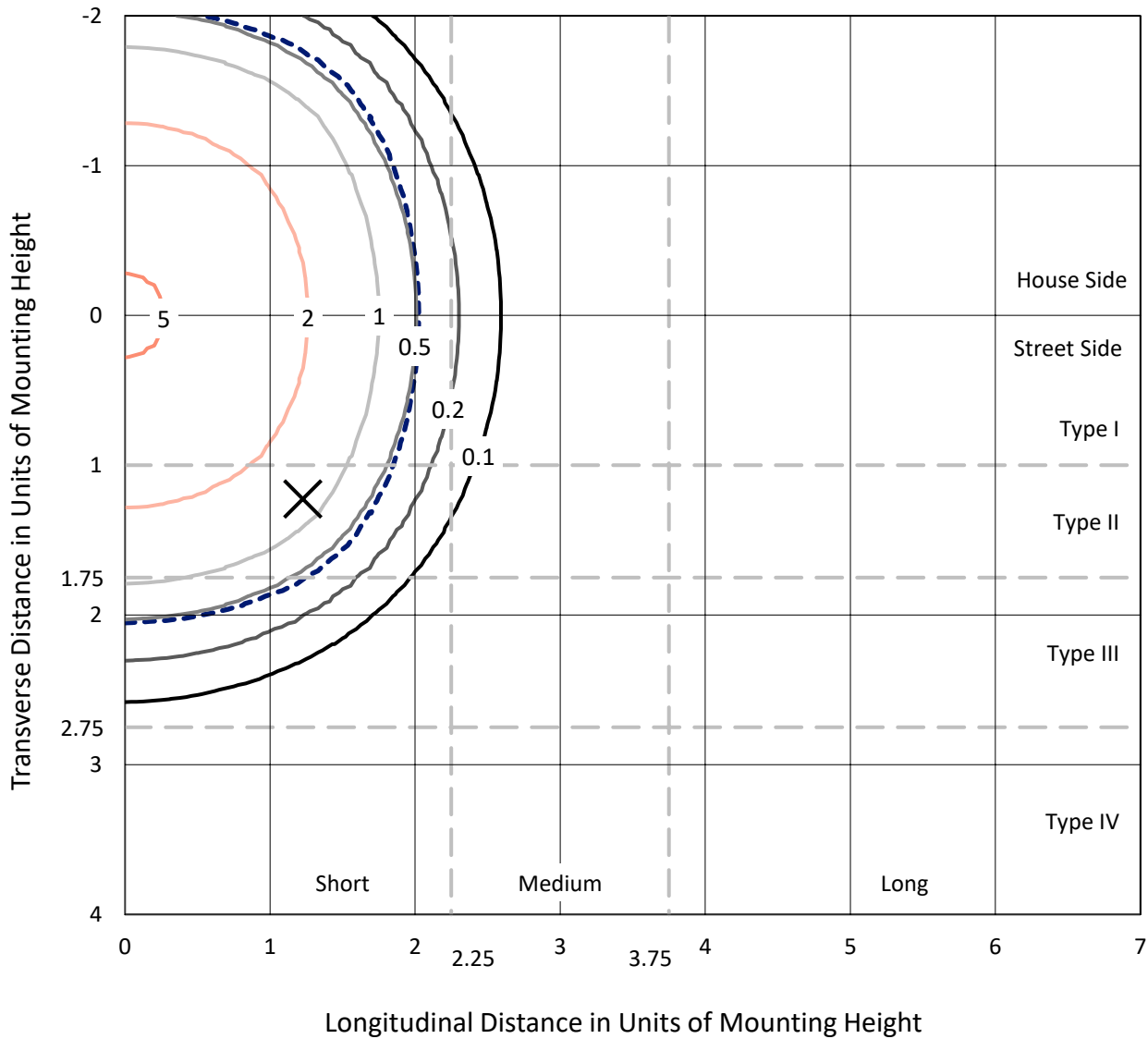


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### Iso-Footcandle Lines of Horizontal Illumination

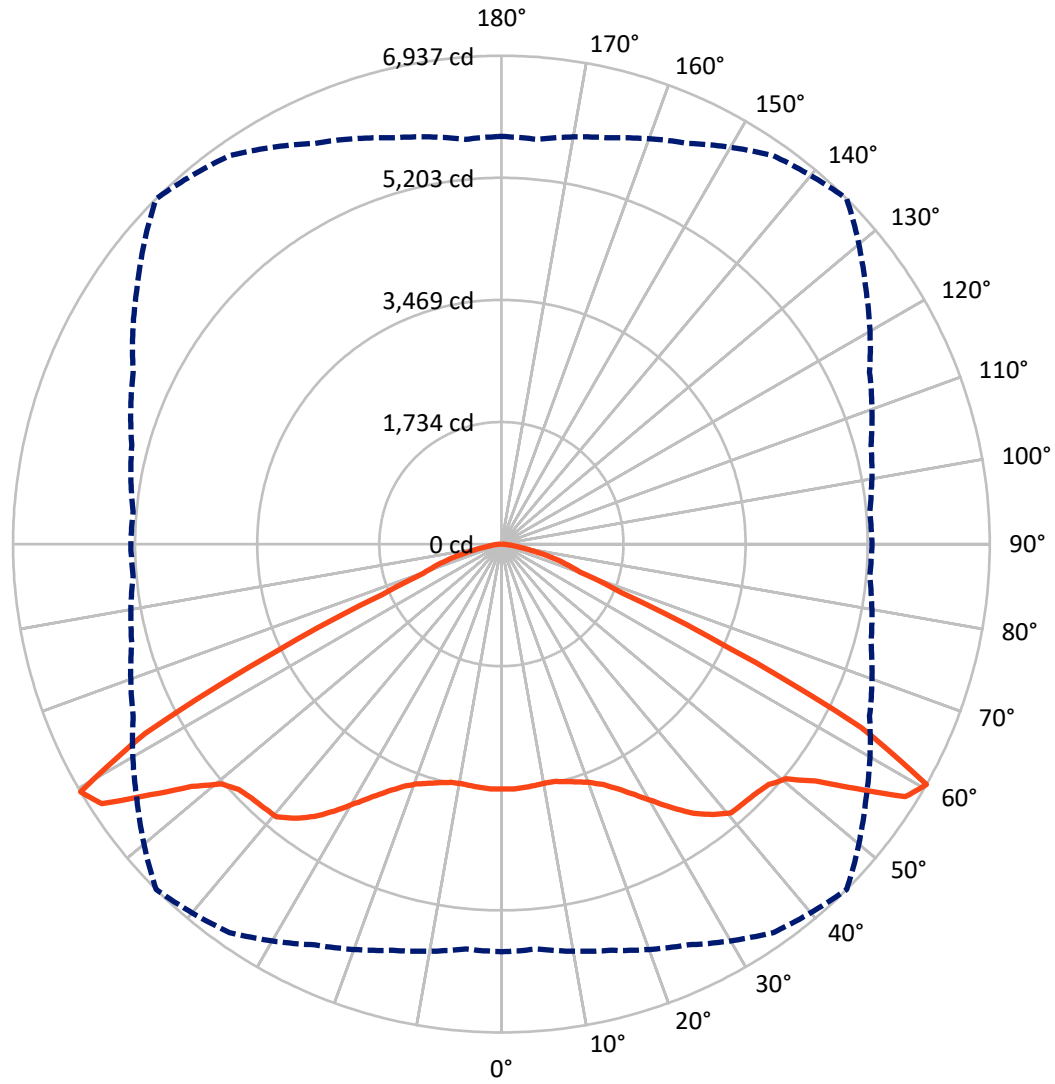
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9518.8	0.0	9518.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9518.8	0.0	9518.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19037.6	0.0	19037.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.9	1.7
10°-20°	992.4	5.2
20°-30°	1755.7	9.2
30°-40°	2826.8	14.8
40°-50°	3885.4	20.4
50°-60°	5177.7	27.2
60°-70°	3227.0	17.0
70°-80°	742.1	3.9
80°-90°	100.7	0.5
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°	19037.6	100.0
0°-180°	19037.6	100.0

**Coefficient of Utilization**



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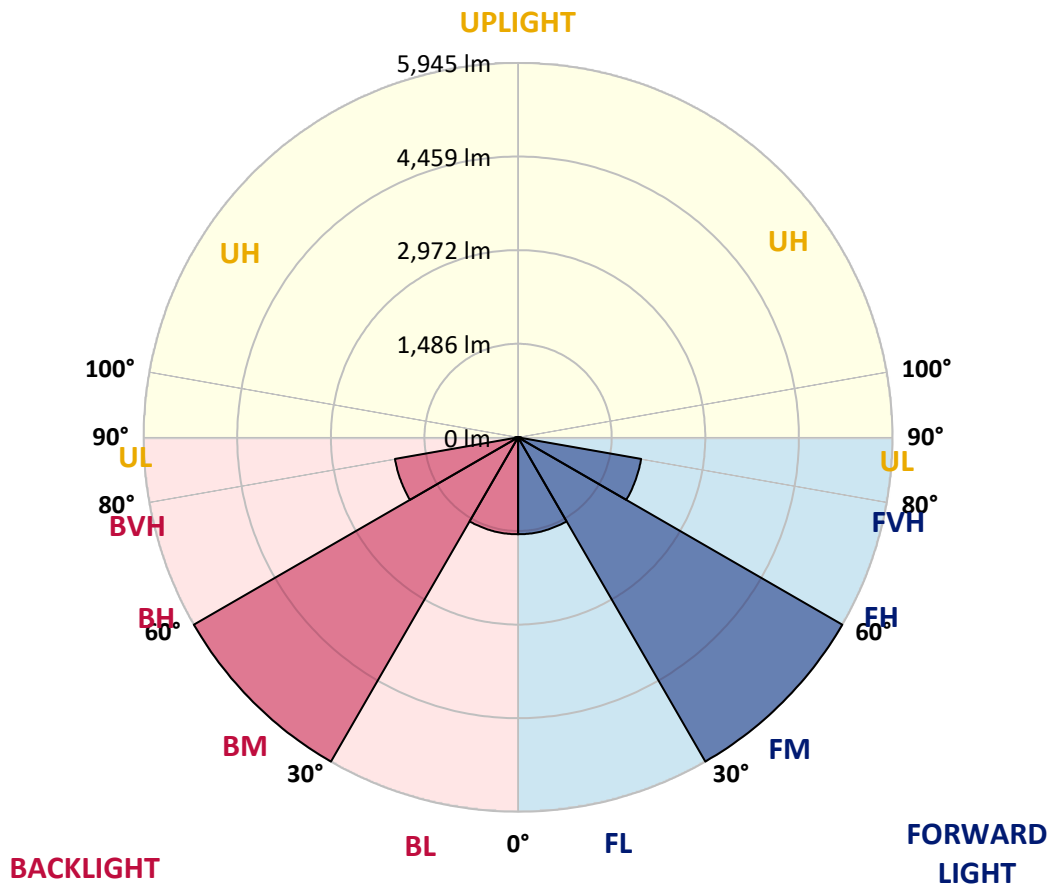
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1539.1	8.1			
FM (30°-60°)	5944.9	31.2			
FH (60°-80°)	1984.5	10.4			G2/5000
FVH (80°-90°)	50.3	0.3			G1/100
BL (0°-30°)	1539.1	8.1	B3/2500		
BM (30°-60°)	5944.9	31.2	B4/8500		
BH (60°-80°)	1984.5	10.4	B3/2500		G2/5000
BVH (80°-90°)	50.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1
2.5°	3454.9	3458.1	3464.6	3469.4	3475.9	3482.3	3485.6	3479.1	3475.9	3462.9	3477.5
5°	3458.1	3461.3	3466.2	3466.2	3467.8	3472.6	3472.6	3464.6	3456.5	3441.9	3458.1
7.5°	3453.2	3456.5	3458.1	3456.5	3458.1	3459.7	3456.5	3446.8	3438.7	3425.8	3438.7
10°	3445.2	3448.4	3451.6	3448.4	3445.2	3450.0	3450.0	3443.5	3438.7	3425.8	3440.3
12.5°	3462.9	3467.8	3469.4	3461.3	3458.1	3459.7	3459.7	3453.2	3453.2	3441.9	3458.1
15°	3504.9	3508.2	3503.3	3493.6	3495.3	3500.1	3488.8	3472.6	3469.4	3464.6	3477.5
17.5°	3537.3	3540.5	3535.7	3529.2	3540.5	3551.8	3530.8	3500.1	3490.4	3487.2	3501.7
20°	3572.8	3577.7	3571.2	3579.3	3601.9	3614.8	3589.0	3547.0	3527.6	3522.7	3540.5
22.5°	3631.0	3637.5	3637.5	3655.2	3689.2	3710.2	3677.9	3621.3	3592.2	3584.1	3601.9
25°	3723.1	3727.9	3732.8	3768.3	3823.3	3852.4	3800.7	3723.1	3682.7	3669.8	3679.5
27.5°	3850.8	3858.8	3866.9	3918.6	3986.5	4028.5	3954.2	3857.2	3807.1	3781.3	3800.7
30°	4002.7	4014.0	4033.4	4091.5	4186.9	4233.7	4138.4	4020.4	3963.9	3936.4	3962.3
32.5°	4209.5	4211.1	4225.7	4290.3	4416.3	4469.7	4350.1	4219.2	4161.0	4128.7	4143.2
35°	4455.1	4456.7	4434.1	4500.4	4636.1	4695.9	4555.3	4422.8	4374.3	4364.6	4401.8
37.5°	4707.2	4692.7	4670.0	4699.1	4836.5	4875.3	4726.6	4613.5	4592.5	4610.2	4665.2
40°	4886.6	4862.3	4817.1	4838.1	4977.1	5022.3	4863.9	4757.3	4750.8	4794.5	4860.7
42.5°	5002.9	4977.1	4923.7	4923.7	5019.1	5038.5	4915.7	4859.1	4873.6	4923.7	4986.8
45°	5059.5	5044.9	5014.2	4998.1	5051.4	5059.5	4965.7	4943.1	4970.6	4994.8	5043.3
47.5°	5103.1	5103.1	5093.4	5077.2	5101.5	5106.3	5036.8	5030.4	5065.9	5065.9	5098.3
50°	5180.7	5188.7	5201.7	5198.4	5224.3	5240.5	5188.7	5179.1	5193.6	5146.7	5162.9
52.5°	5384.3	5405.3	5442.4	5471.5	5537.8	5587.9	5495.8	5418.2	5342.3	5238.8	5242.1
55°	5749.5	5759.2	5831.9	5917.5	6029.0	6130.8	5941.8	5701.0	5536.2	5415.0	5416.6
57.5°	6058.1	6072.7	6179.3	6358.7	6609.1	6767.5	6349.0	5946.6	5713.9	5565.3	5570.1
60°	5791.5	5772.1	5974.1	6281.1	6735.2	6937.2	6319.9	5770.5	5436.0	5251.8	5264.7
62.5°	4481.0	4443.8	4668.4	4990.0	5534.6	5736.5	5167.7	4640.9	4324.2	4180.4	4159.4
65°	2727.7	2693.8	2855.3	3052.5	3420.9	3548.6	3288.4	3008.9	2732.5	2645.3	2621.0
67.5°	1485.0	1480.2	1523.8	1620.8	1782.4	1842.2	1792.1	1659.6	1588.5	1527.1	1527.1
70°	1178.0	1168.3	1160.2	1161.9	1176.4	1184.5	1186.1	1179.6	1187.7	1189.3	1182.9
72.5°	976.0	972.8	956.6	958.2	951.8	948.6	959.9	966.3	979.3	980.9	980.9
75°	707.8	699.7	707.8	709.4	702.9	702.9	711.0	709.4	715.9	719.1	701.3
77.5°	402.4	402.4	413.7	426.6	436.3	436.3	444.4	444.4	452.5	450.8	447.6
80°	221.4	221.4	227.8	235.9	245.6	255.3	263.4	265.0	269.9	268.2	263.4
82.5°	126.0	127.7	130.9	135.7	145.4	153.5	161.6	163.2	168.1	168.1	163.2
85°	59.8	58.2	59.8	63.0	67.9	74.3	82.4	87.3	90.5	90.5	87.3
87.5°	11.3	12.9	11.3	12.9	14.5	19.4	22.6	25.9	30.7	32.3	29.1
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)