

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: P638237

Luminaire Tested: GWS-SA4E-740-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638237  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-740-U-5NQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

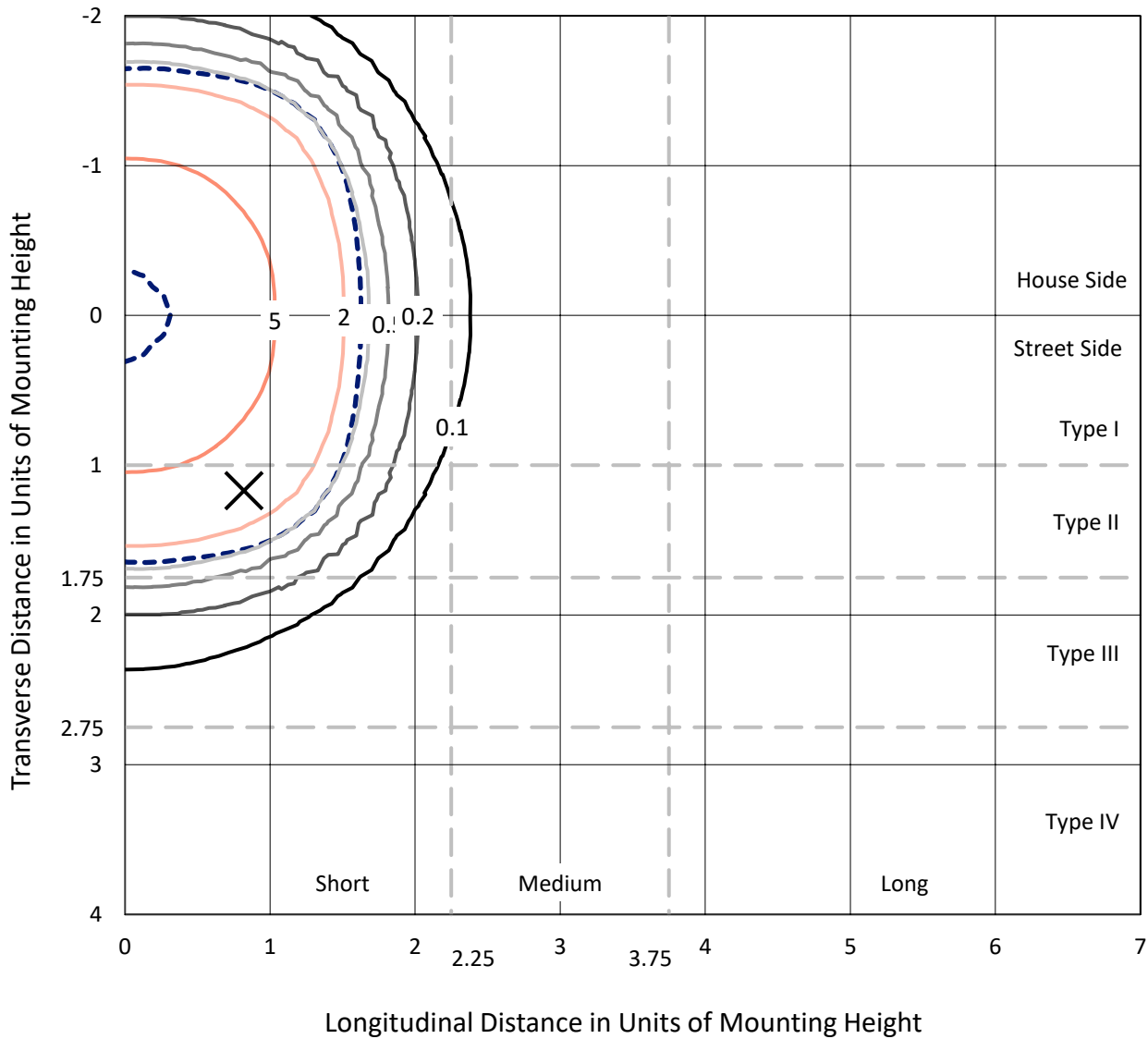
Lumens per Lamp: N/A  
Luminaire Lumens: 27743 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

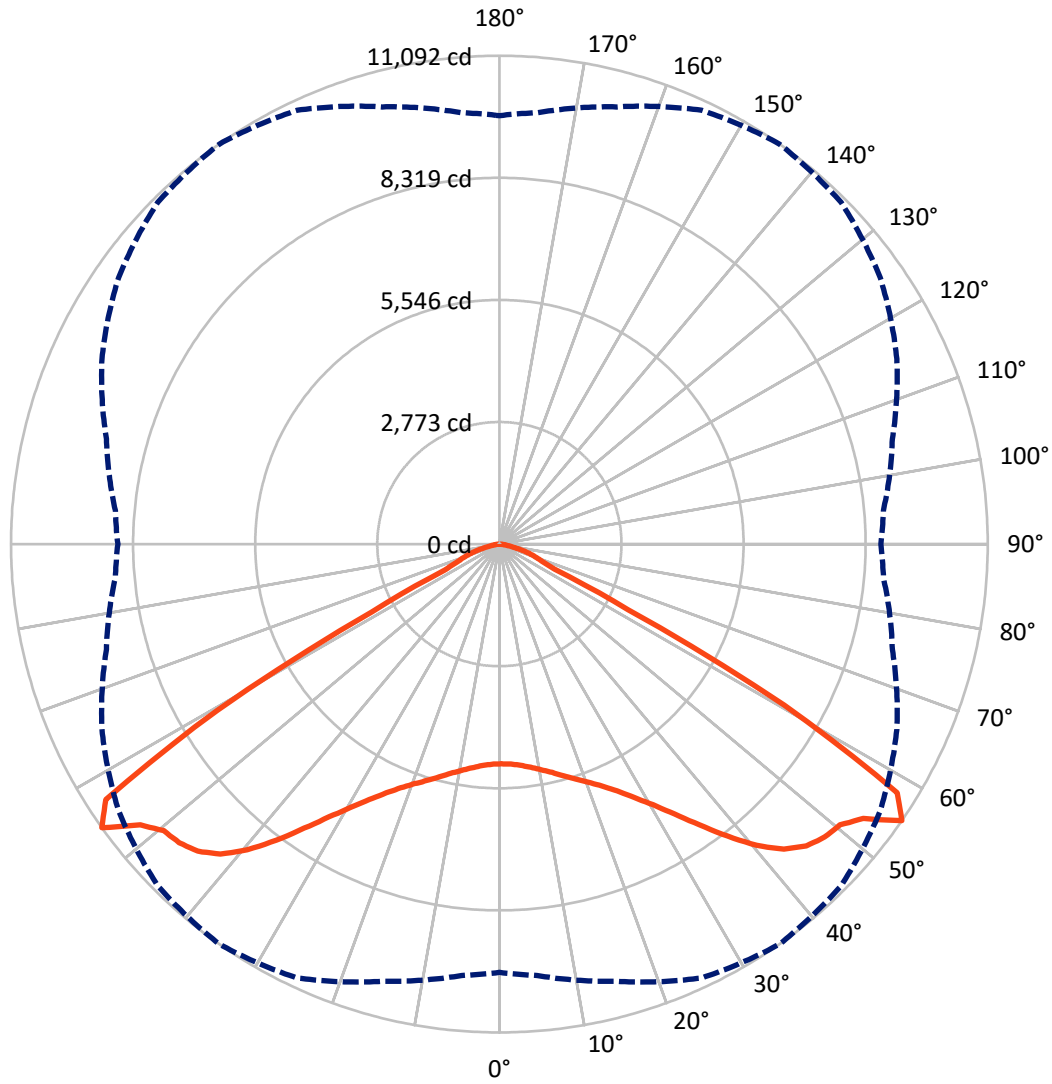
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13871.5	0.0	13871.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13871.5	0.0	13871.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27743.0	0.0	27743.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.8	1.8
10°-20°	1549.9	5.6
20°-30°	2868.6	10.3
30°-40°	4798.5	17.3
40°-50°	7312.2	26.4
50°-60°	8191.2	29.5
60°-70°	1938.1	7.0
70°-80°	522.5	1.9
80°-90°	75.2	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°	27743.0	100.0
0°-180°	27743.0	100.0

**Coefficient of Utilization**



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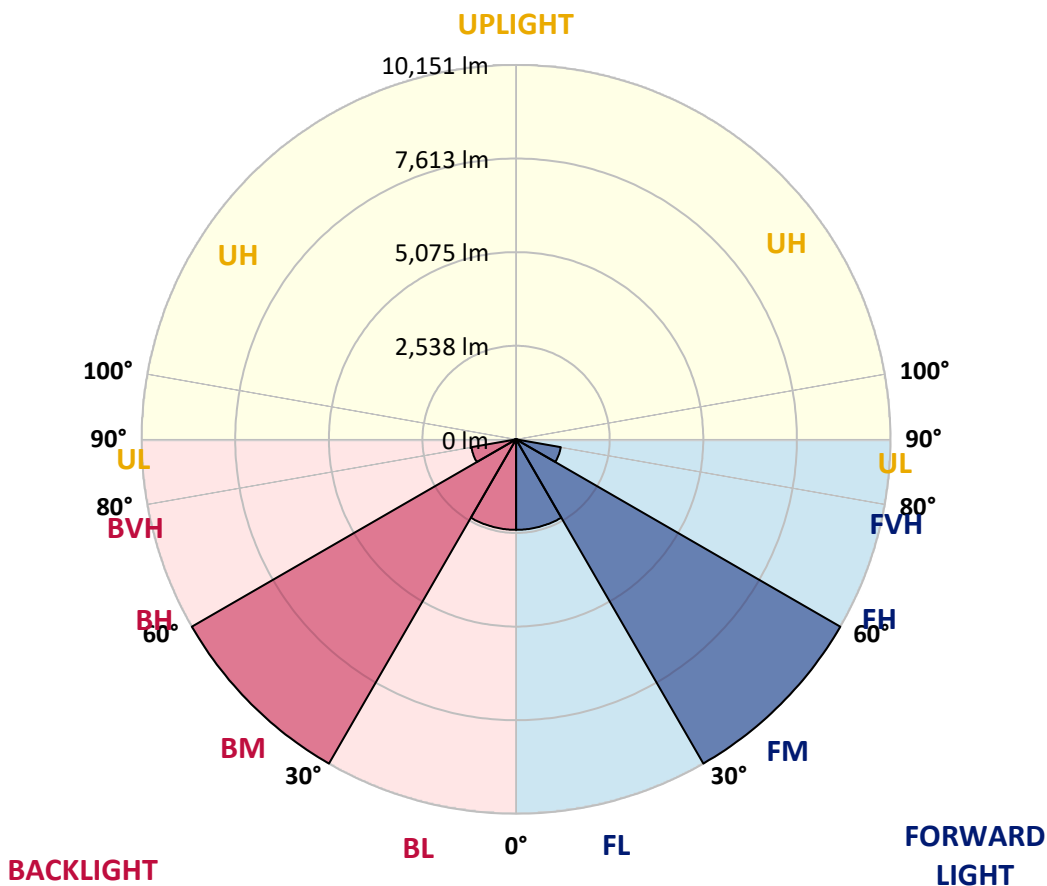
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2452.6	8.8			
FM (30°-60°)	10150.9	36.6			
FH (60°-80°)	1230.3	4.4			G1/1800
FVH (80°-90°)	37.6	0.1			G1/100
BL (0°-30°)	2452.6	8.8	B3/2500		
BM (30°-60°)	10150.9	36.6	B5		
BH (60°-80°)	1230.3	4.4	B3/2500		G1/1800
BVH (80°-90°)	37.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0
2.5°	4980.1	4980.1	4988.8	4999.8	5002.0	5023.9	5019.6	5010.8	5006.4	4997.6	5017.4
5°	5034.9	5037.1	5043.7	5050.3	5045.9	5063.4	5056.9	5045.9	5039.3	5028.3	5048.1
7.5°	5107.3	5107.3	5113.9	5122.7	5118.3	5144.6	5131.4	5116.1	5105.1	5092.0	5109.5
10°	5173.1	5177.5	5184.1	5201.7	5210.4	5238.9	5230.2	5208.2	5190.7	5175.3	5195.1
12.5°	5271.9	5276.2	5282.8	5307.0	5322.3	5350.8	5337.7	5307.0	5280.6	5258.7	5280.6
15°	5399.1	5394.7	5412.3	5443.0	5462.7	5489.0	5473.7	5421.0	5385.9	5357.4	5379.4
17.5°	5528.5	5526.3	5543.9	5583.4	5611.9	5647.0	5620.7	5559.3	5522.0	5486.9	5508.8
20°	5668.9	5675.5	5693.1	5730.4	5772.1	5818.1	5796.2	5730.4	5688.7	5649.2	5666.8
22.5°	5842.3	5844.5	5864.2	5912.5	5967.3	6011.2	5998.0	5916.9	5864.2	5822.5	5844.5
25°	6050.7	6048.5	6074.8	6131.8	6208.6	6252.5	6224.0	6134.0	6077.0	6028.7	6046.3
27.5°	6289.8	6287.6	6327.1	6401.7	6511.4	6572.8	6513.6	6401.7	6322.7	6254.7	6270.1
30°	6590.4	6583.8	6627.7	6728.6	6871.2	6974.3	6886.5	6730.8	6627.7	6555.3	6570.6
32.5°	6923.8	6932.6	6987.5	7123.5	7303.4	7437.2	7305.6	7132.3	6994.0	6888.7	6906.3
35°	7290.2	7290.2	7402.1	7571.0	7827.7	8005.4	7801.4	7551.3	7367.0	7222.2	7226.6
37.5°	7698.3	7702.7	7849.6	8082.2	8417.9	8626.3	8349.8	8040.5	7816.7	7661.0	7652.2
40°	8196.3	8209.4	8360.8	8619.7	8997.0	9187.9	8891.7	8589.0	8360.8	8176.5	8159.0
42.5°	8757.9	8762.3	8922.4	9155.0	9473.1	9587.2	9354.6	9106.7	8920.3	8753.5	8736.0
45°	9293.2	9282.2	9420.5	9593.8	9778.1	9789.0	9659.6	9558.7	9396.3	9253.7	9227.4
47.5°	9710.0	9701.3	9826.3	9920.7	9942.6	9835.1	9876.8	9892.1	9703.5	9510.4	9459.9
50°	9964.5	9982.1	10100.5	10153.2	10023.8	9848.3	10006.2	9966.7	9696.9	9444.6	9363.4
52.5°	10118.1	10144.4	10350.6	10484.5	10350.6	10183.9	10205.9	9973.3	9585.0	9251.5	9146.2
55°	9729.8	9835.1	10280.4	10872.8	11092.2	10975.9	10559.1	9960.1	9240.6	8755.7	8665.8
57.5°	7211.2	7378.0	8038.3	9321.7	10655.6	11079.0	9861.4	8349.8	7259.5	6636.4	6583.8
60°	3681.3	3867.8	4396.5	5715.0	7430.6	8027.3	6869.0	5346.4	4249.5	3744.9	3687.9
62.5°	1502.8	1533.5	1706.8	2215.8	3284.2	3788.8	3328.1	2336.5	1755.1	1616.9	1619.1
65°	1182.5	1189.1	1180.3	1211.0	1375.6	1526.9	1410.7	1239.5	1208.8	1224.2	1213.2
67.5°	1031.1	1033.3	1026.7	1026.7	1033.3	1026.7	1039.9	1046.5	1050.9	1068.4	1057.4
70°	862.2	864.4	864.4	868.8	866.6	855.6	875.4	884.1	886.3	897.3	890.7
72.5°	666.9	673.5	677.9	680.1	677.9	671.3	682.3	697.6	695.5	706.4	695.5
75°	451.9	460.7	465.1	473.9	471.7	471.7	484.8	491.4	484.8	493.6	484.8
77.5°	256.7	263.3	276.4	285.2	294.0	300.6	309.3	313.7	311.5	315.9	311.5
80°	149.2	151.4	162.3	166.7	177.7	188.7	197.4	201.8	204.0	206.2	204.0
82.5°	85.6	87.8	92.1	96.5	105.3	114.1	122.9	129.4	129.4	131.6	129.4
85°	41.7	41.7	43.9	46.1	50.5	57.0	63.6	70.2	72.4	72.4	72.4
87.5°	6.6	6.6	8.8	8.8	11.0	13.2	17.6	21.9	24.1	24.1	24.1
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)