

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: P638234

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638234  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-740-U-5MQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM 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: 26795.2 lumens  
Efficiency: N/A  
Efficacy: 132.3 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

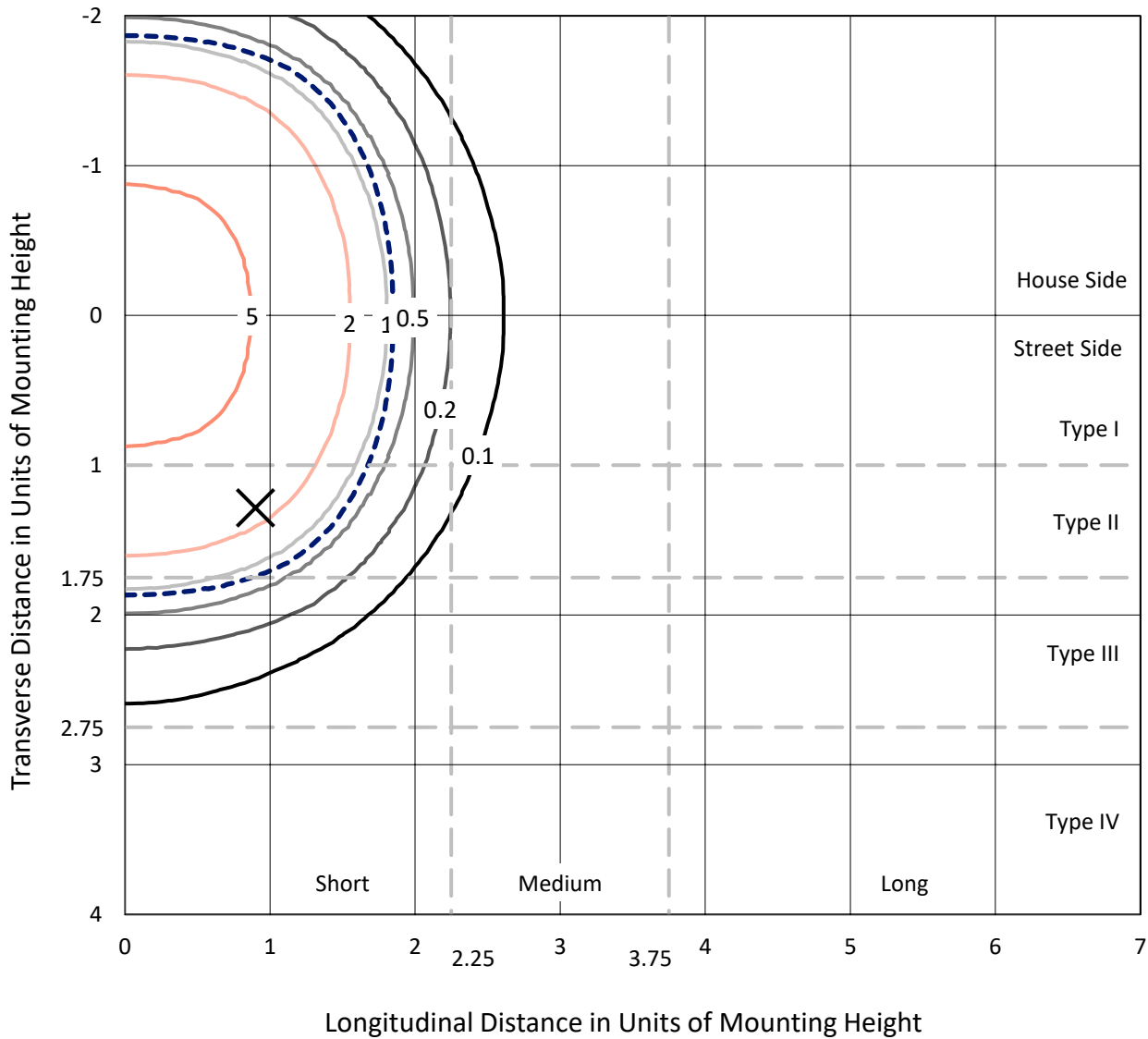


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### Iso-Footcandle Lines of Horizontal Illumination

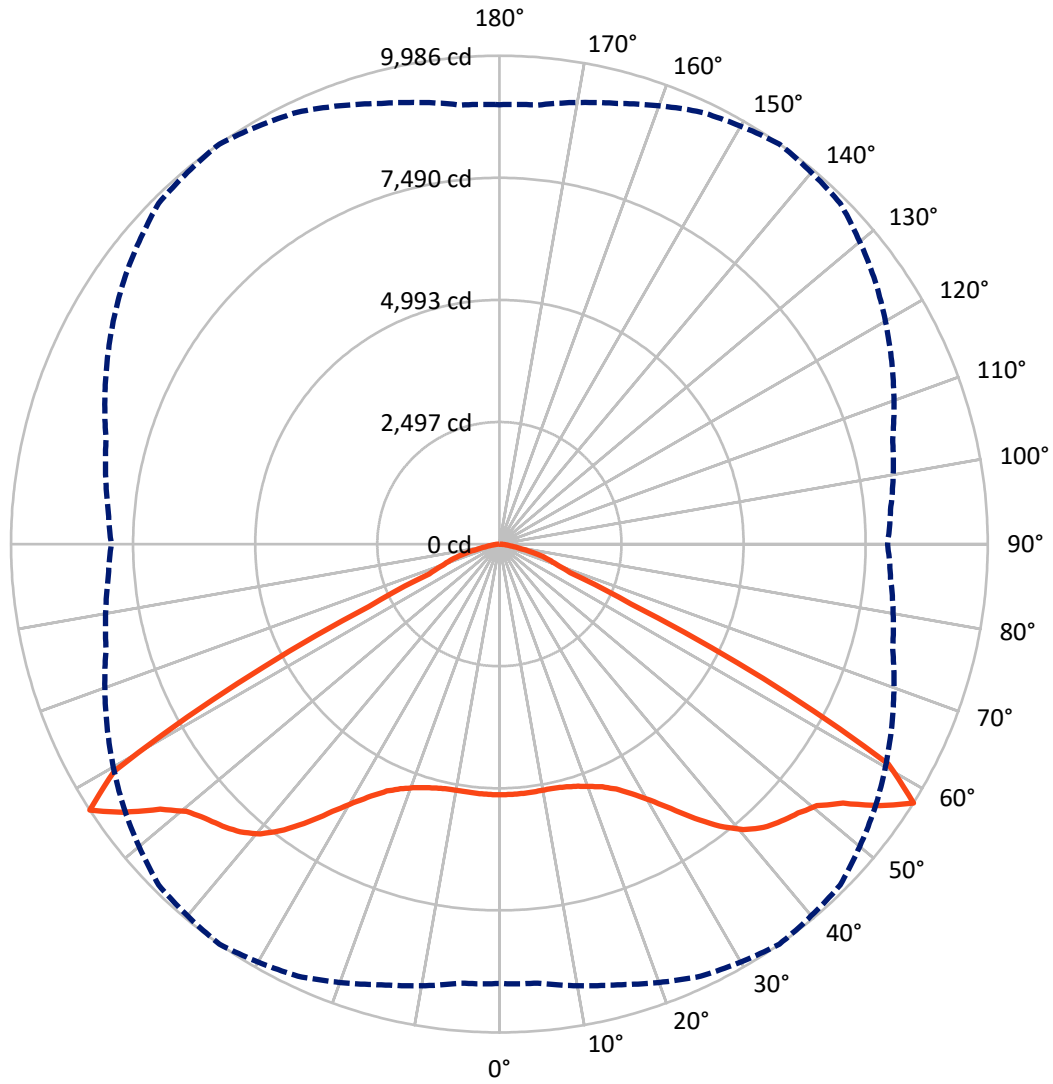
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13397.6	0.0	13397.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13397.6	0.0	13397.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26795.2	0.0	26795.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.7	1.8
10°-20°	1455.2	5.4
20°-30°	2539.0	9.5
30°-40°	4163.4	15.5
40°-50°	6131.7	22.9
50°-60°	7825.2	29.2
60°-70°	3297.9	12.3
70°-80°	787.8	2.9
80°-90°	107.2	0.4
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°	26795.2	100.0
0°-180°	26795.2	100.0

**Coefficient of Utilization**



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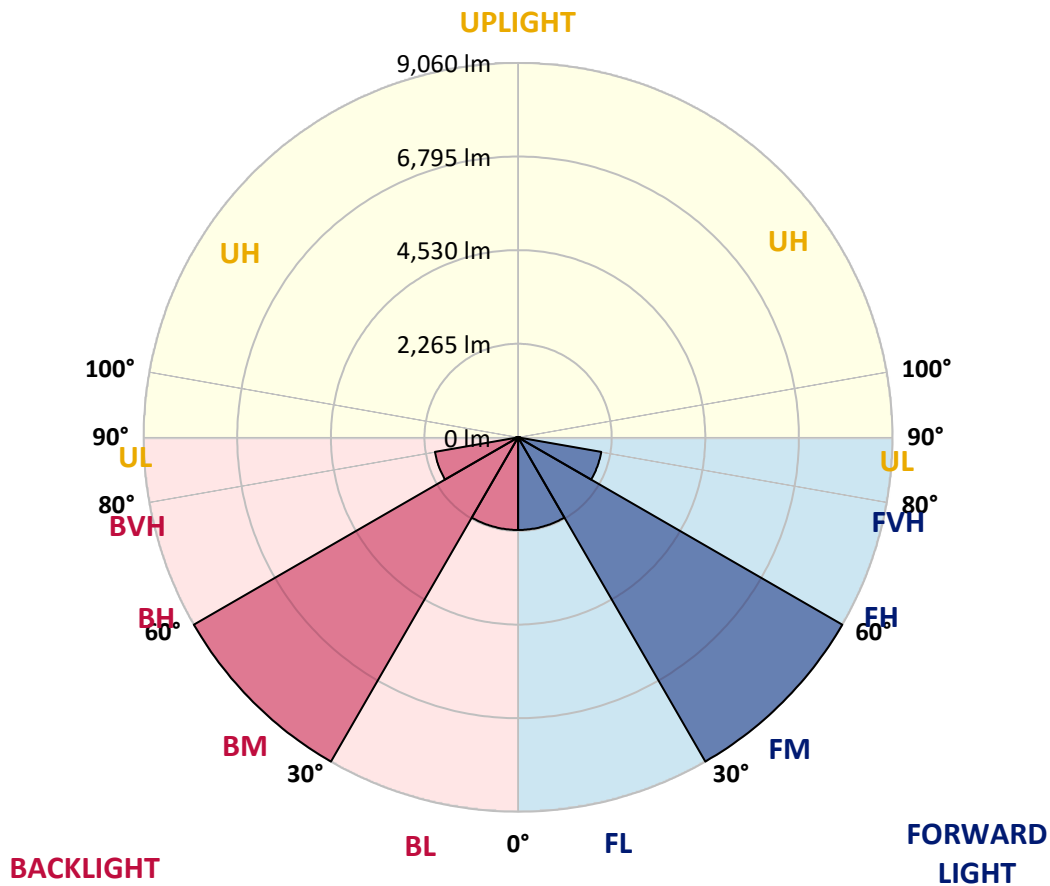
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2241.0	8.4			
FM (30°-60°)	9060.2	33.8			
FH (60°-80°)	2042.8	7.6			G2/5000
FVH (80°-90°)	53.6	0.2			G1/100
BL (0°-30°)	2241.0	8.4	B3/2500		
BM (30°-60°)	9060.2	33.8	B5		
BH (60°-80°)	2042.8	7.6	B3/2500		G2/5000
BVH (80°-90°)	53.6	0.2			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°	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0
2.5°	5096.2	5096.2	5107.2	5118.2	5122.6	5142.3	5140.1	5133.5	5129.1	5116.0	5133.5
5°	5107.2	5107.2	5116.0	5122.6	5120.4	5135.7	5129.1	5118.2	5111.6	5098.4	5118.2
7.5°	5105.0	5105.0	5111.6	5118.2	5113.8	5127.0	5116.0	5100.6	5089.7	5076.5	5094.0
10°	5076.5	5080.9	5087.5	5102.8	5109.4	5129.1	5113.8	5089.7	5072.1	5056.8	5074.3
12.5°	5072.1	5076.5	5085.3	5105.0	5116.0	5144.5	5124.8	5085.3	5058.9	5039.2	5056.8
15°	5091.9	5096.2	5109.4	5133.5	5151.1	5181.8	5153.3	5098.4	5061.1	5034.8	5050.2
17.5°	5116.0	5122.6	5142.3	5177.4	5205.9	5238.8	5203.7	5137.9	5085.3	5050.2	5063.3
20°	5142.3	5151.1	5181.8	5234.5	5287.1	5328.8	5284.9	5197.2	5133.5	5087.5	5100.6
22.5°	5188.4	5199.4	5238.8	5313.4	5392.4	5453.8	5399.0	5280.5	5197.2	5137.9	5148.9
25°	5282.7	5295.9	5346.3	5436.3	5548.2	5622.8	5546.0	5412.2	5295.9	5223.5	5234.5
27.5°	5449.4	5456.0	5521.8	5640.3	5778.5	5864.1	5771.9	5614.0	5484.5	5401.2	5410.0
30°	5668.8	5688.6	5754.4	5910.1	6074.7	6188.8	6068.1	5881.6	5732.4	5631.5	5640.3
32.5°	5936.5	5949.6	6048.4	6210.7	6447.6	6579.3	6414.7	6193.2	6013.3	5890.4	5899.2
35°	6287.5	6298.5	6392.8	6599.0	6886.4	7009.3	6820.6	6566.1	6357.7	6241.4	6274.3
37.5°	6706.5	6726.2	6794.3	6998.3	7318.6	7439.2	7222.1	6985.1	6767.9	6660.4	6684.6
40°	7156.2	7154.0	7208.9	7388.8	7680.6	7755.1	7559.9	7371.2	7184.8	7114.6	7154.0
42.5°	7542.3	7531.4	7570.9	7720.0	7921.9	7928.5	7799.0	7693.7	7562.1	7513.8	7551.1
45°	7812.2	7816.6	7875.8	7978.9	8082.0	8027.2	7987.7	7970.1	7867.0	7801.2	7807.8
47.5°	8025.0	8042.5	8136.9	8207.1	8220.2	8128.1	8182.9	8209.3	8123.7	8022.8	7994.3
50°	8213.7	8242.2	8365.0	8439.6	8411.1	8294.8	8402.3	8441.8	8253.1	8060.1	8003.1
52.5°	8555.9	8588.8	8738.0	8834.5	8801.6	8685.3	8786.2	8645.8	8327.7	8090.8	8018.4
55°	9102.2	9117.5	9299.6	9457.6	9442.2	9299.6	9218.4	8906.9	8520.8	8275.1	8207.1
57.5°	8985.9	9012.2	9328.1	9749.3	9986.3	9856.8	9380.8	8849.9	8325.5	8029.4	7937.2
60°	7070.7	7134.3	7527.0	8268.5	9137.3	9135.1	8251.0	7426.1	6794.3	6401.6	6362.1
62.5°	4128.8	4172.6	4530.2	5280.5	6059.3	6107.6	5486.7	4920.7	4367.9	4102.4	3975.2
65°	1954.7	1952.5	2095.1	2432.9	2959.5	3001.1	2814.7	2505.3	2178.5	2088.5	2064.4
67.5°	1443.5	1443.5	1432.6	1456.7	1557.6	1579.5	1557.6	1507.2	1476.4	1496.2	1483.0
70°	1252.7	1254.9	1241.7	1235.1	1235.1	1228.5	1237.3	1257.1	1270.2	1296.5	1283.4
72.5°	1015.7	1017.9	1017.9	1020.1	1022.3	1013.5	1026.7	1037.7	1039.9	1048.6	1039.9
75°	721.8	726.2	739.3	750.3	759.1	759.1	763.4	765.6	756.9	767.8	750.3
77.5°	397.1	401.5	425.6	445.3	465.1	467.3	473.9	478.3	473.9	482.6	469.5
80°	219.4	223.8	234.7	243.5	258.9	272.0	280.8	285.2	285.2	291.8	285.2
82.5°	125.0	129.4	136.0	140.4	153.6	164.5	173.3	179.9	179.9	182.1	177.7
85°	59.2	59.2	63.6	68.0	74.6	79.0	89.9	96.5	96.5	100.9	96.5
87.5°	8.8	11.0	13.2	13.2	17.6	21.9	26.3	28.5	32.9	35.1	35.1
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)