

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: P641153

Luminaire Tested: GWS-SA5F-735-U-5NQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641153  
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-SA5F-735-U-5NQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43027 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

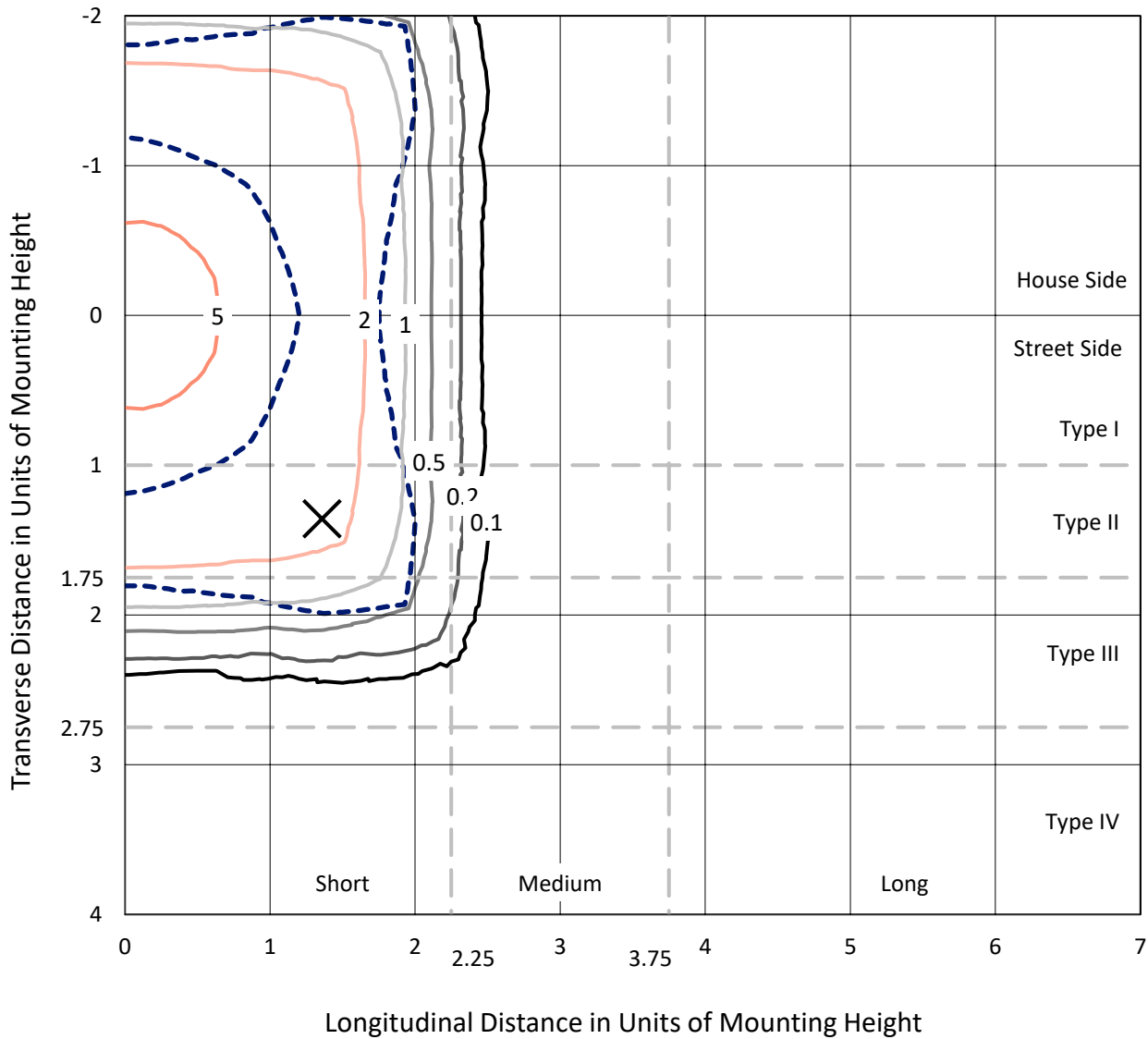
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

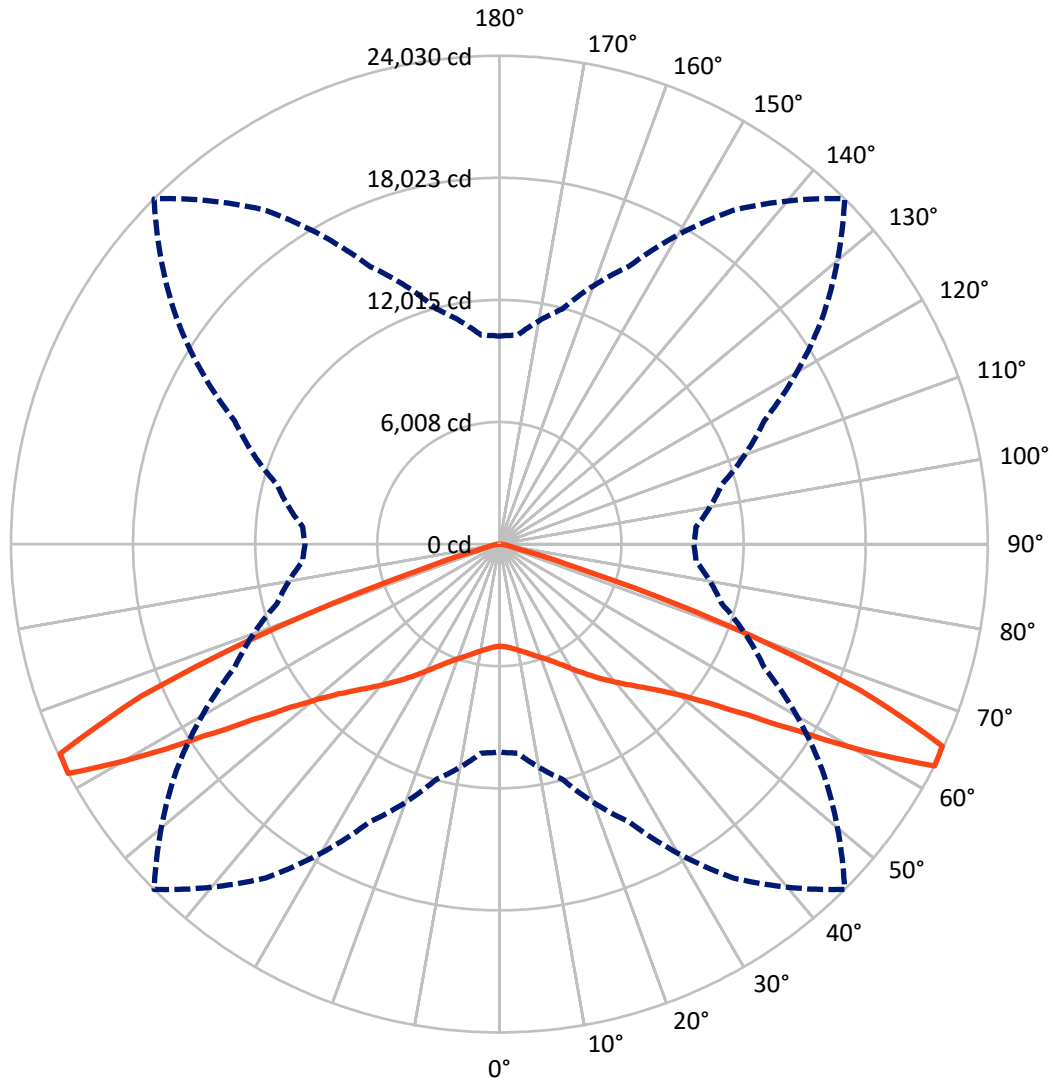
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 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 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21513.5	0.0	21513.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21513.5	0.0	21513.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43027.0	0.0	43027.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.5	1.1
10°-20°	1588.2	3.7
20°-30°	3004.7	7.0
30°-40°	5057.4	11.8
40°-50°	8080.3	18.8
50°-60°	13024.9	30.3
60°-70°	10626.9	24.7
70°-80°	1032.0	2.4
80°-90°	120.1	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°	43027.0	100.0
0°-180°	43027.0	100.0

**Coefficient of Utilization**



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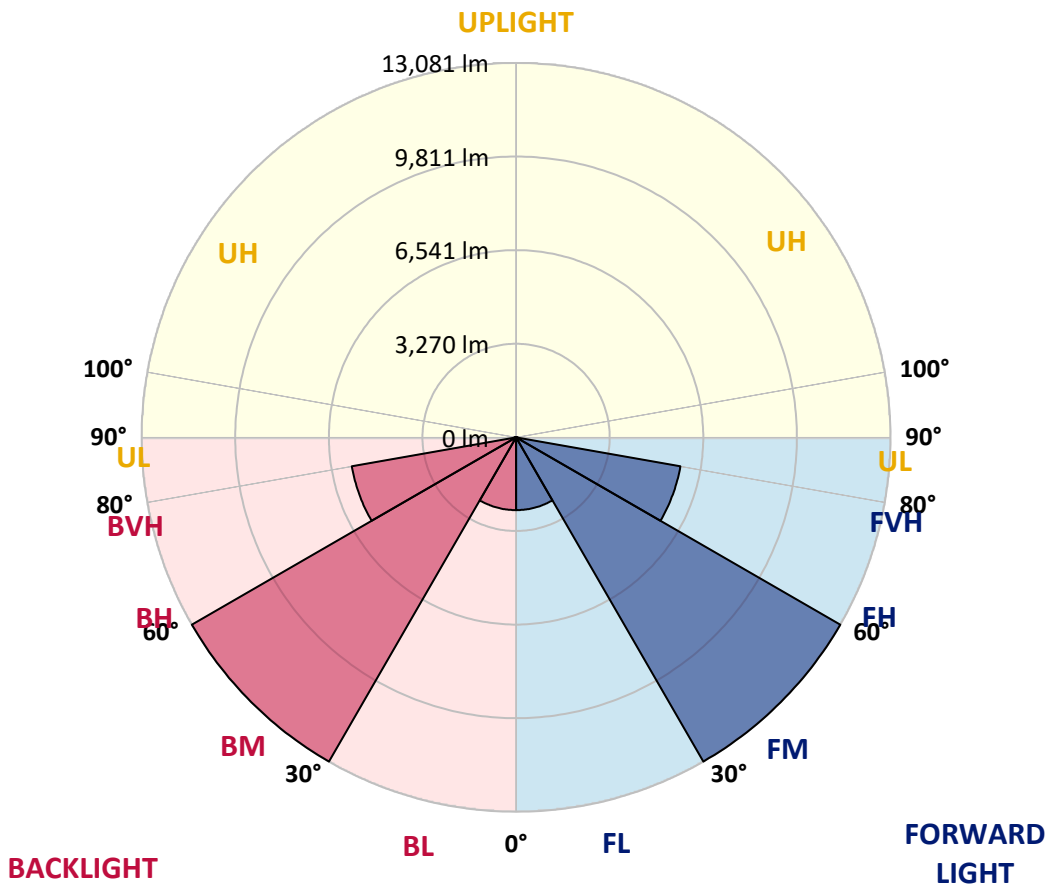
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2542.7	5.9			
FM (30°-60°)	13081.3	30.4			
FH (60°-80°)	5829.4	13.5			G3/7500
FVH (80°-90°)	60.0	0.1			G1/100
BL (0°-30°)	2542.7	5.9	B4/5000		
BM (30°-60°)	13081.3	30.4	B5		
BH (60°-80°)	5829.4	13.5	B5		G3/7500
BVH (80°-90°)	60.0	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-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7
2.5°	5013.8	5013.8	5025.6	5034.4	5028.5	5052.1	5049.2	5043.3	5040.3	5031.5	5058.0
5°	5081.7	5081.7	5090.5	5099.4	5084.6	5114.1	5102.3	5096.4	5093.5	5081.7	5105.3
7.5°	5158.4	5167.2	5170.2	5184.9	5176.1	5208.5	5199.7	5187.9	5182.0	5167.2	5187.9
10°	5244.0	5249.9	5252.8	5279.4	5282.3	5320.7	5311.8	5297.1	5285.3	5270.5	5300.0
12.5°	5359.0	5362.0	5370.9	5403.3	5412.2	5441.7	5438.7	5418.1	5403.3	5382.7	5415.1
15°	5506.6	5509.5	5524.3	5556.8	5571.5	5606.9	5595.1	5562.7	5542.0	5518.4	5545.0
17.5°	5660.1	5671.9	5686.6	5719.1	5739.7	5781.0	5766.3	5730.9	5713.2	5689.6	5707.3
20°	5857.8	5860.7	5869.6	5905.0	5919.7	5967.0	5969.9	5934.5	5925.6	5902.0	5928.6
22.5°	6076.1	6079.1	6087.9	6126.3	6152.9	6182.4	6200.1	6179.4	6164.7	6135.2	6167.6
25°	6318.1	6347.6	6356.5	6403.7	6433.2	6450.9	6471.6	6462.7	6442.1	6406.7	6421.4
27.5°	6657.5	6663.4	6678.2	6731.3	6749.0	6766.7	6787.3	6790.3	6760.8	6719.5	6740.1
30°	7044.1	7041.1	7073.6	7114.9	7129.7	7144.4	7173.9	7191.6	7153.3	7109.0	7129.7
32.5°	7439.5	7474.9	7516.2	7554.6	7545.8	7551.7	7598.9	7631.3	7578.2	7498.5	7516.2
35°	7885.1	7908.7	7961.8	8017.9	8006.1	7997.3	8026.8	8059.2	7985.5	7882.2	7908.7
37.5°	8342.5	8377.9	8457.6	8525.5	8507.8	8466.5	8498.9	8534.3	8463.5	8345.5	8333.7
40°	8853.1	8909.1	9024.2	9080.3	9033.1	8953.4	9009.5	9095.0	9024.2	8888.5	8856.0
42.5°	9452.1	9520.0	9635.1	9720.6	9617.4	9487.5	9582.0	9705.9	9688.2	9508.2	9452.1
45°	10192.8	10237.1	10378.7	10420.0	10266.6	10086.6	10257.7	10446.6	10402.3	10207.6	10133.8
47.5°	10998.4	11066.3	11190.3	11267.0	11019.1	10794.8	11033.9	11287.6	11240.4	11057.5	10971.9
50°	12025.4	12113.9	12276.2	12341.2	11998.8	11742.1	12049.0	12370.7	12279.2	12034.2	11922.1
52.5°	13143.8	13214.7	13492.0	13621.9	13300.2	13022.8	13291.4	13607.1	13412.4	13087.8	12937.3
55°	14129.5	14200.3	14607.5	15038.4	15023.6	14831.8	14967.6	14973.5	14445.2	13908.1	13748.8
57.5°	14341.9	14412.8	15188.9	16316.2	17112.9	17334.3	16935.9	16097.8	14766.9	13825.5	13645.5
60°	13208.8	13288.4	14522.0	16581.8	19202.3	20680.7	18845.2	16074.2	13772.4	12497.6	12326.4
62.5°	10234.1	10319.7	11978.2	15070.8	20046.3	24030.1	19400.0	14383.3	11329.0	9714.7	9564.2
65°	4886.9	4886.9	6993.9	10809.6	18364.2	23950.5	17794.6	10641.4	6819.8	5238.1	5108.2
67.5°	1209.9	1215.8	1800.1	4208.2	12491.7	19113.7	12695.3	5108.2	2402.1	1699.8	1655.5
70°	755.5	752.5	835.1	1139.1	4370.5	11600.4	5190.8	1540.4	976.8	861.7	855.8
72.5°	587.3	587.3	628.6	728.9	1145.0	3951.4	1513.9	855.8	708.2	637.4	637.4
75°	463.3	463.3	492.8	545.9	675.8	1018.1	805.6	634.5	548.9	501.7	495.8
77.5°	345.3	351.2	374.8	410.2	460.4	572.5	510.5	478.1	427.9	392.5	380.7
80°	224.3	233.1	262.6	283.3	301.0	377.7	333.5	348.2	324.6	283.3	277.4
82.5°	121.0	123.9	159.4	165.3	171.2	206.6	212.5	221.3	230.2	180.0	168.2
85°	44.3	44.3	53.1	62.0	67.9	73.8	100.3	123.9	129.8	103.3	100.3
87.5°	8.9	8.9	8.9	5.9	5.9	5.9	17.7	32.5	53.1	41.3	41.3
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)