

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: P638733

Luminaire Tested: GWS-SA4F-740-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638733
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-SA4F-740-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35562.4 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

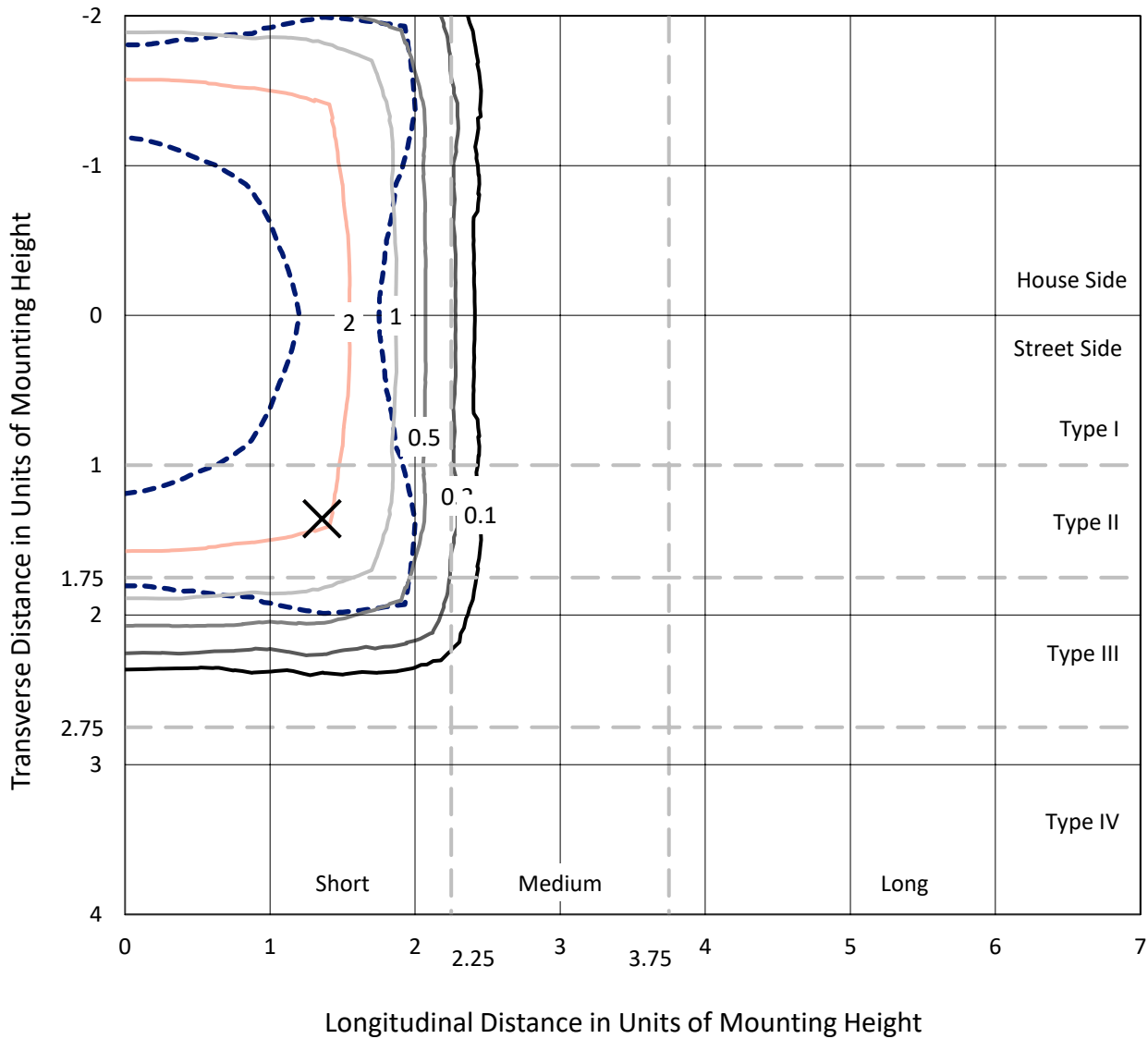
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

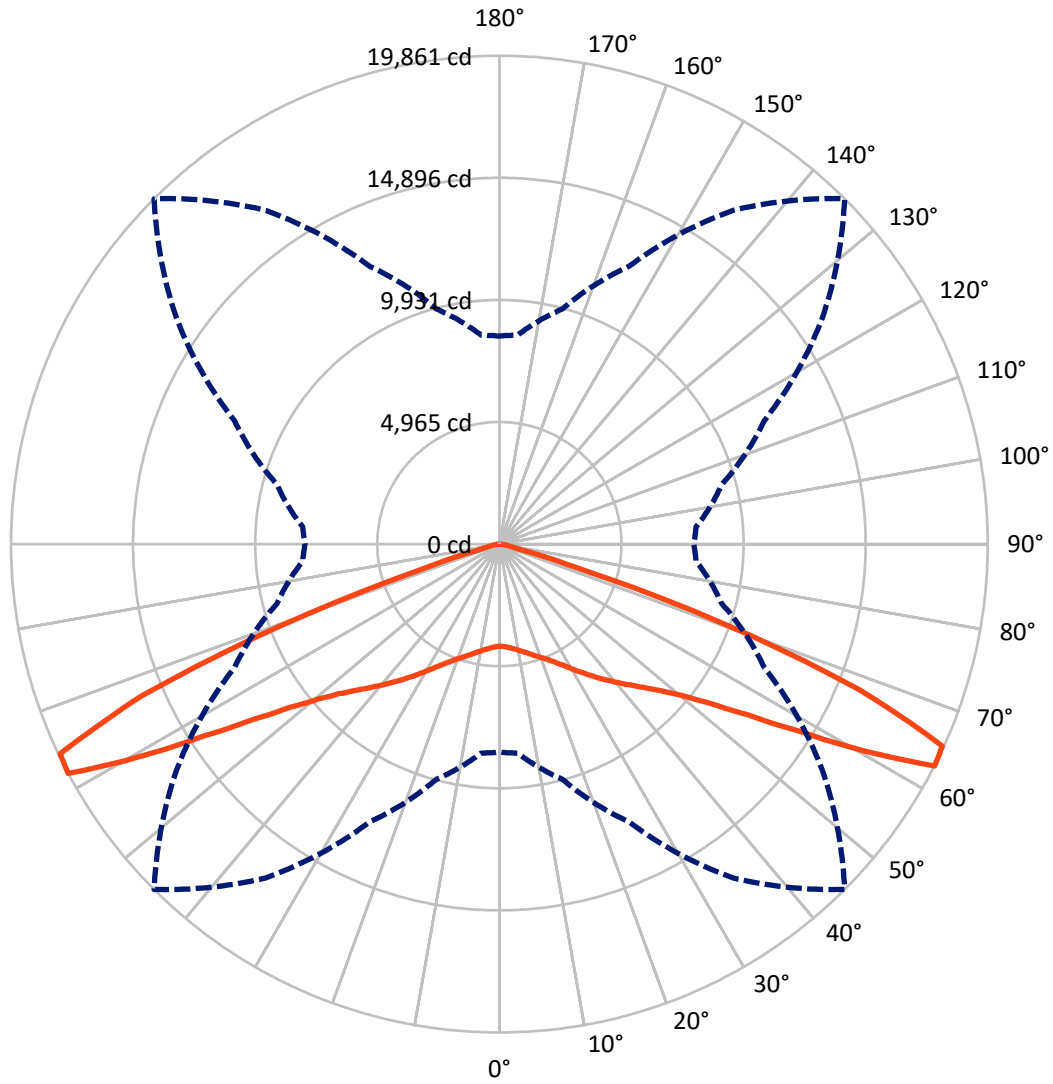
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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
House Side	Lumens	17781.2	0.0	17781.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17781.2	0.0	17781.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	35562.4	0.0	35562.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.1	1.1
10°-20°	1312.7	3.7
20°-30°	2483.5	7.0
30°-40°	4180.0	11.8
40°-50°	6678.4	18.8
50°-60°	10765.3	30.3
60°-70°	8783.3	24.7
70°-80°	852.9	2.4
80°-90°	99.2	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°	35562.4	100.0
0°-180°	35562.4	100.0

Coefficient of Utilization



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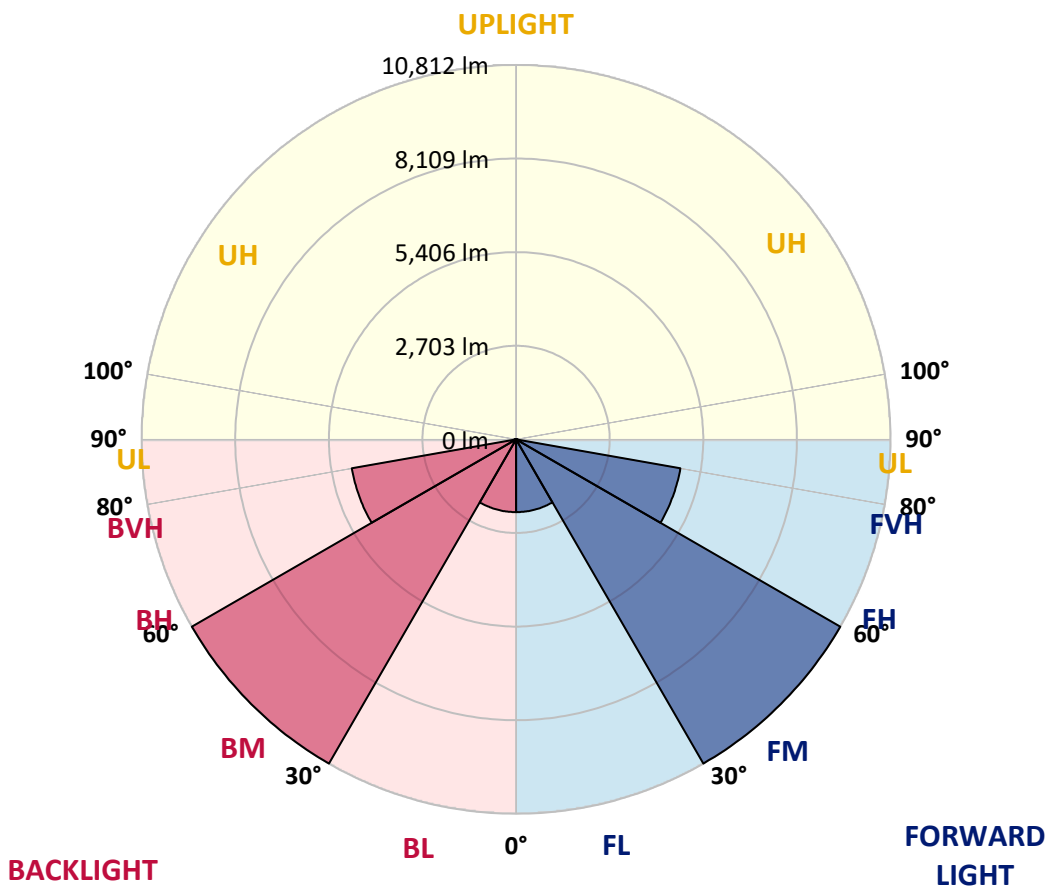
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2101.6	5.9			
FM (30°-60°)	10811.9	30.4			
FH (60°-80°)	4818.1	13.5			G2/5000
FVH (80°-90°)	49.6	0.1			G1/100
BL (0°-30°)	2101.6	5.9	B3/2500		
BM (30°-60°)	10811.9	30.4	B5		
BH (60°-80°)	4818.1	13.5	B4/5000		G2/5000
BVH (80°-90°)	49.6	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4148.8	4148.8	4148.8	4148.8	4148.8	4148.8	4148.8	4148.8	4148.8	4148.8	4148.8
2.5°	4144.0	4144.0	4153.7	4161.0	4156.2	4175.7	4173.2	4168.3	4165.9	4158.6	4180.5
5°	4200.1	4200.1	4207.4	4214.7	4202.5	4226.9	4217.1	4212.2	4209.8	4200.1	4219.6
7.5°	4263.5	4270.8	4273.2	4285.4	4278.1	4304.9	4297.6	4287.9	4283.0	4270.8	4287.9
10°	4334.2	4339.1	4341.5	4363.5	4365.9	4397.6	4390.3	4378.1	4368.3	4356.2	4380.5
12.5°	4429.3	4431.8	4439.1	4465.9	4473.2	4497.6	4495.2	4478.1	4465.9	4448.8	4475.7
15°	4551.3	4553.7	4565.9	4592.7	4604.9	4634.2	4624.4	4597.6	4580.5	4561.0	4583.0
17.5°	4678.1	4687.9	4700.1	4726.9	4744.0	4778.1	4765.9	4736.6	4722.0	4702.5	4717.1
20°	4841.5	4844.0	4851.3	4880.6	4892.7	4931.8	4934.2	4904.9	4897.6	4878.1	4900.1
22.5°	5022.0	5024.5	5031.8	5063.5	5085.4	5109.8	5124.5	5107.4	5095.2	5070.8	5097.6
25°	5222.0	5246.4	5253.7	5292.8	5317.1	5331.8	5348.8	5341.5	5324.5	5295.2	5307.4
27.5°	5502.5	5507.4	5519.6	5563.5	5578.1	5592.8	5609.8	5612.3	5587.9	5553.7	5570.8
30°	5822.0	5819.6	5846.4	5880.6	5892.8	5905.0	5929.3	5944.0	5912.3	5875.7	5892.8
32.5°	6148.9	6178.1	6212.3	6244.0	6236.7	6241.5	6280.6	6307.4	6263.5	6197.6	6212.3
35°	6517.2	6536.7	6580.6	6626.9	6617.2	6609.8	6634.2	6661.1	6600.1	6514.7	6536.7
37.5°	6895.2	6924.5	6990.3	7046.4	7031.8	6997.7	7024.5	7053.7	6995.2	6897.6	6887.9
40°	7317.2	7363.5	7458.6	7505.0	7465.9	7400.1	7446.4	7517.2	7458.6	7346.4	7319.6
42.5°	7812.3	7868.4	7963.5	8034.2	7948.9	7841.6	7919.6	8022.1	8007.4	7858.6	7812.3
45°	8424.5	8461.1	8578.2	8612.3	8485.5	8336.7	8478.2	8634.3	8597.7	8436.7	8375.7
47.5°	9090.4	9146.5	9248.9	9312.3	9107.4	8922.1	9119.6	9329.4	9290.4	9139.1	9068.4
50°	9939.2	10012.3	10146.5	10200.1	9917.2	9705.0	9958.7	10224.5	10148.9	9946.5	9853.8
52.5°	10863.6	10922.1	11151.4	11258.7	10992.8	10763.6	10985.5	11246.5	11085.5	10817.2	10692.8
55°	11678.2	11736.7	12073.3	12429.4	12417.2	12258.7	12370.9	12375.8	11939.2	11495.3	11363.6
57.5°	11853.8	11912.3	12553.8	13485.5	14144.1	14327.0	13997.7	13305.0	12205.0	11427.0	11278.2
60°	10917.2	10983.1	12002.6	13705.1	15870.9	17092.9	15575.8	13285.5	11383.1	10329.4	10187.9
62.5°	8458.6	8529.4	9900.1	12456.3	16568.5	19861.2	16034.4	11888.0	9363.5	8029.4	7905.0
65°	4039.1	4039.1	5780.6	8934.3	15178.2	19795.4	14707.5	8795.2	5636.7	4329.3	4222.0
67.5°	1000.0	1004.9	1487.8	3478.1	10324.5	15797.8	10492.8	4222.0	1985.4	1404.9	1368.3
70°	624.4	622.0	690.3	941.5	3612.2	9587.9	4290.3	1273.2	807.3	712.2	707.3
72.5°	485.4	485.4	519.5	602.4	946.4	3265.9	1251.2	707.3	585.4	526.8	526.8
75°	382.9	382.9	407.3	451.2	558.5	841.5	665.9	524.4	453.7	414.6	409.8
77.5°	285.4	290.2	309.8	339.0	380.5	473.2	422.0	395.1	353.7	324.4	314.6
80°	185.4	192.7	217.1	234.1	248.8	312.2	275.6	287.8	268.3	234.1	229.3
82.5°	100.0	102.4	131.7	136.6	141.5	170.7	175.6	182.9	190.2	148.8	139.0
85°	36.6	36.6	43.9	51.2	56.1	61.0	82.9	102.4	107.3	85.4	82.9
87.5°	7.3	7.3	7.3	4.9	4.9	4.9	14.6	26.8	43.9	34.1	34.1
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)