

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: P638843

Luminaire Tested: GWS-SA4F-760-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638843
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-760-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35878.8 lumens
Efficiency: N/A
Efficacy: 159.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

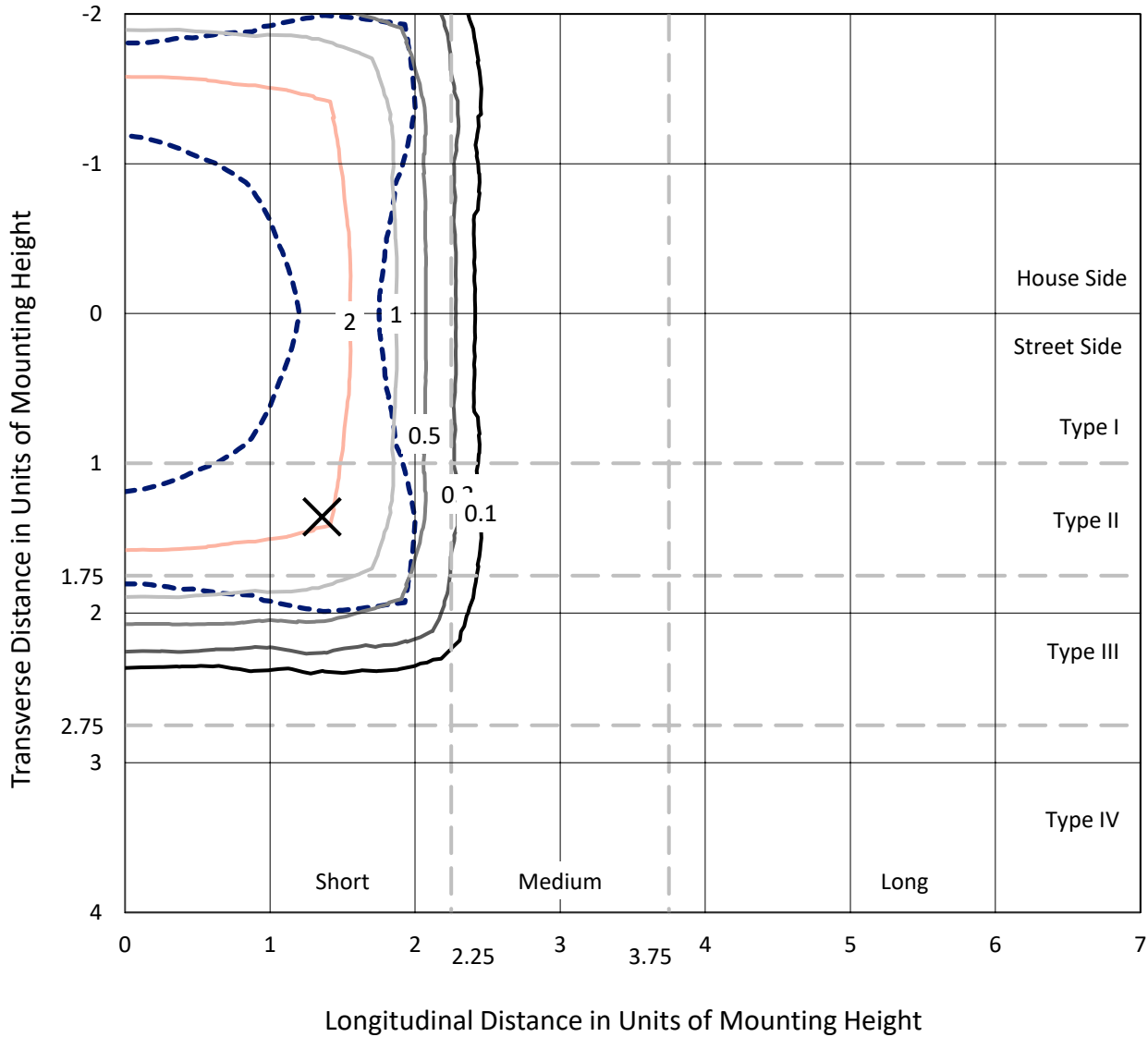
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

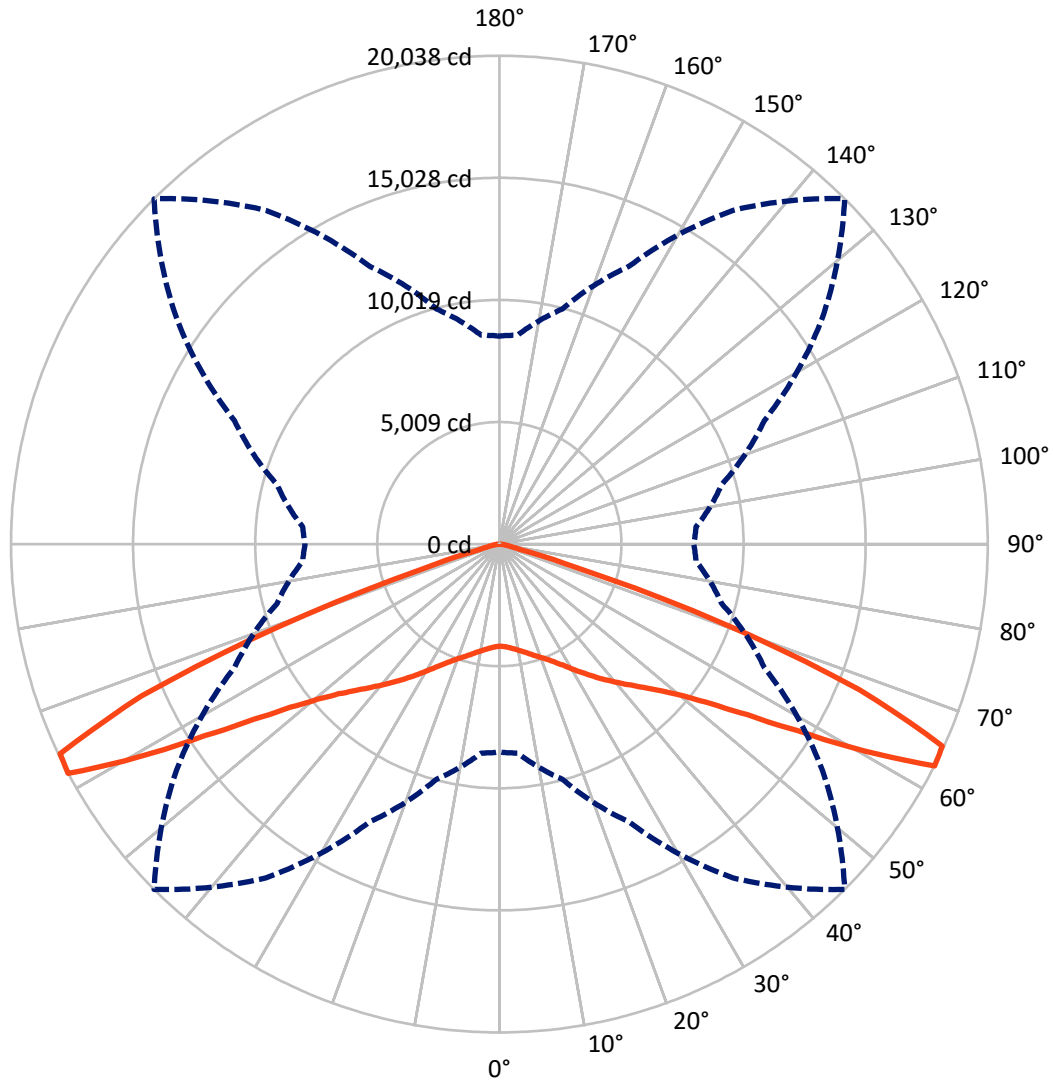
✕ Max cd
 - - - 1/2 Max cd



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	17939.4	0.0	17939.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17939.4	0.0	17939.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	35878.8	0.0	35878.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.7	1.1
10°-20°	1324.4	3.7
20°-30°	2505.5	7.0
30°-40°	4217.2	11.8
40°-50°	6737.9	18.8
50°-60°	10861.1	30.3
60°-70°	8861.4	24.7
70°-80°	860.5	2.4
80°-90°	100.1	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°	35878.8	100.0
0°-180°	35878.8	100.0

Coefficient of Utilization



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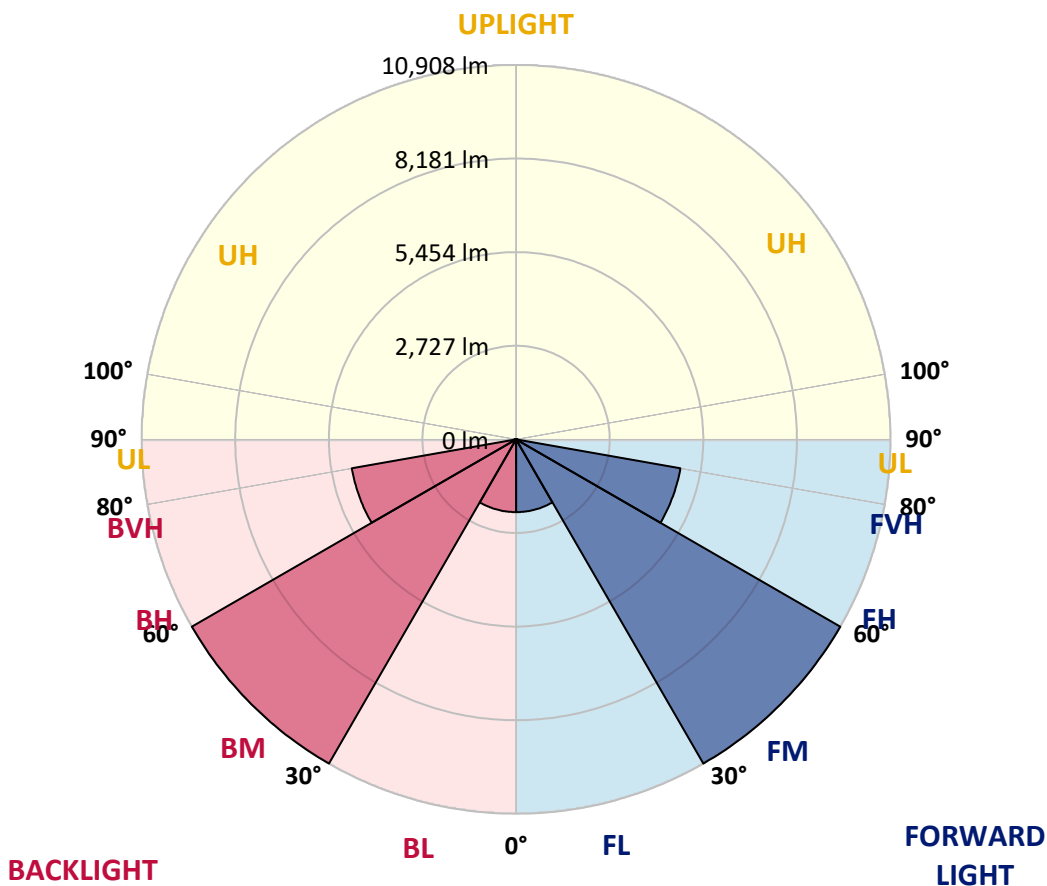
CATALOG NUMBER: GWS-SA4F-760-U-5NQ-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2120.3	5.9			
FM (30°-60°)	10908.1	30.4			
FH (60°-80°)	4861.0	13.5			G2/5000
FVH (80°-90°)	50.1	0.1			G1/100
BL (0°-30°)	2120.3	5.9	B3/2500		
BM (30°-60°)	10908.1	30.4	B5		
BH (60°-80°)	4861.0	13.5	B4/5000		G2/5000
BVH (80°-90°)	50.1	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°	4185.7	4185.7	4185.7	4185.7	4185.7	4185.7	4185.7	4185.7	4185.7	4185.7	4185.7
2.5°	4180.8	4180.8	4190.7	4198.0	4193.1	4212.8	4210.4	4205.4	4203.0	4195.6	4217.7
5°	4237.4	4237.4	4244.8	4252.2	4239.9	4264.5	4254.6	4249.7	4247.3	4237.4	4257.1
7.5°	4301.4	4308.8	4311.2	4323.5	4316.2	4343.2	4335.9	4326.0	4321.1	4308.8	4326.0
10°	4372.8	4377.7	4380.1	4402.3	4404.8	4436.7	4429.4	4417.1	4407.2	4394.9	4419.5
12.5°	4468.7	4471.2	4478.6	4505.6	4513.0	4537.6	4535.2	4517.9	4505.6	4488.4	4515.5
15°	4591.8	4594.2	4606.5	4633.6	4645.9	4675.4	4665.6	4638.5	4621.3	4601.6	4623.8
17.5°	4719.7	4729.6	4741.9	4768.9	4786.2	4820.6	4808.3	4778.8	4764.0	4744.3	4759.1
20°	4884.6	4887.1	4894.4	4924.0	4936.3	4975.6	4978.1	4948.6	4941.2	4921.5	4943.7
22.5°	5066.7	5069.2	5076.5	5108.5	5130.7	5155.3	5170.0	5152.8	5140.5	5115.9	5143.0
25°	5268.5	5293.1	5300.5	5339.8	5364.4	5379.2	5396.4	5389.1	5371.8	5342.3	5354.6
27.5°	5551.5	5556.4	5568.7	5613.0	5627.7	5642.5	5659.7	5662.2	5637.6	5603.1	5620.4
30°	5873.8	5871.4	5898.4	5932.9	5945.2	5957.5	5982.1	5996.9	5964.9	5928.0	5945.2
32.5°	6203.6	6233.1	6267.5	6299.5	6292.2	6297.1	6336.4	6363.5	6319.2	6252.8	6267.5
35°	6575.1	6594.8	6639.1	6685.9	6676.0	6668.6	6693.3	6720.3	6658.8	6572.7	6594.8
37.5°	6956.6	6986.1	7052.5	7109.1	7094.4	7059.9	7087.0	7116.5	7057.4	6959.0	6949.2
40°	7382.3	7429.0	7525.0	7571.7	7532.4	7465.9	7512.7	7584.0	7525.0	7411.8	7384.7
42.5°	7881.8	7938.4	8034.4	8105.7	8019.6	7911.3	7990.1	8093.4	8078.7	7928.6	7881.8
45°	8499.5	8536.4	8654.5	8688.9	8561.0	8410.9	8553.6	8711.1	8674.2	8511.8	8450.2
47.5°	9171.2	9227.8	9331.2	9395.2	9188.5	9001.4	9200.8	9412.4	9373.0	9220.5	9149.1
50°	10027.6	10101.4	10236.7	10290.9	10005.4	9791.3	10047.3	10315.5	10239.2	10035.0	9941.5
52.5°	10960.2	11019.3	11250.6	11358.8	11090.6	10859.3	11083.2	11346.5	11184.1	10913.5	10788.0
55°	11782.1	11841.2	12180.7	12540.0	12527.7	12367.8	12481.0	12485.9	12045.4	11597.5	11464.7
57.5°	11959.3	12018.3	12665.5	13605.5	14269.9	14454.5	14122.3	13423.4	12313.6	11528.6	11378.5
60°	11014.3	11080.8	12109.4	13827.0	16012.1	17245.0	15714.4	13403.7	11484.3	10421.3	10278.6
62.5°	8533.9	8605.3	9988.2	12567.1	16715.9	20037.9	16177.0	11993.7	9446.8	8100.8	7975.3
65°	4075.0	4075.0	5832.0	9013.7	15313.3	19971.5	14838.4	8873.5	5686.8	4367.8	4259.6
67.5°	1008.9	1013.8	1501.1	3509.0	10416.4	15938.3	10586.2	4259.6	2003.1	1417.4	1380.5
70°	630.0	627.5	696.4	949.9	3644.4	9673.2	4328.5	1284.5	814.5	718.5	713.6
72.5°	489.7	489.7	524.1	607.8	954.8	3295.0	1262.4	713.6	590.6	531.5	531.5
75°	386.3	386.3	410.9	455.2	563.5	849.0	671.8	529.1	457.7	418.3	413.4
77.5°	287.9	292.8	312.5	342.0	383.9	477.4	425.7	398.6	356.8	327.3	317.4
80°	187.0	194.4	219.0	236.2	251.0	315.0	278.1	290.4	270.7	236.2	231.3
82.5°	100.9	103.4	132.9	137.8	142.7	172.3	177.2	184.6	191.9	150.1	140.3
85°	36.9	36.9	44.3	51.7	56.6	61.5	83.7	103.4	108.3	86.1	83.7
87.5°	7.4	7.4	7.4	4.9	4.9	4.9	14.8	27.1	44.3	34.5	34.5
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)