

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: P638290

Luminaire Tested: GWS-SA4E-750-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-750-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32418.1 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

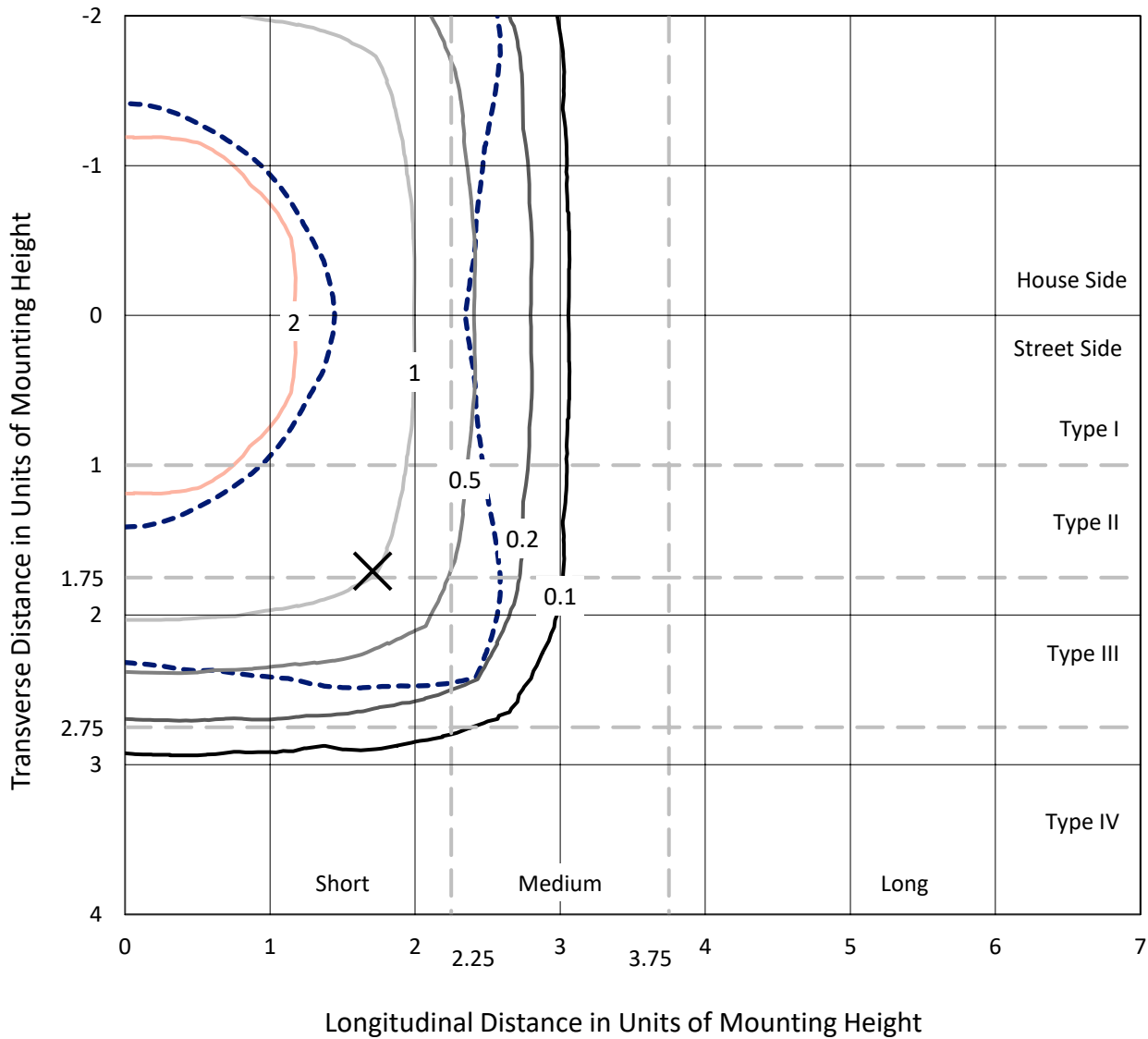
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

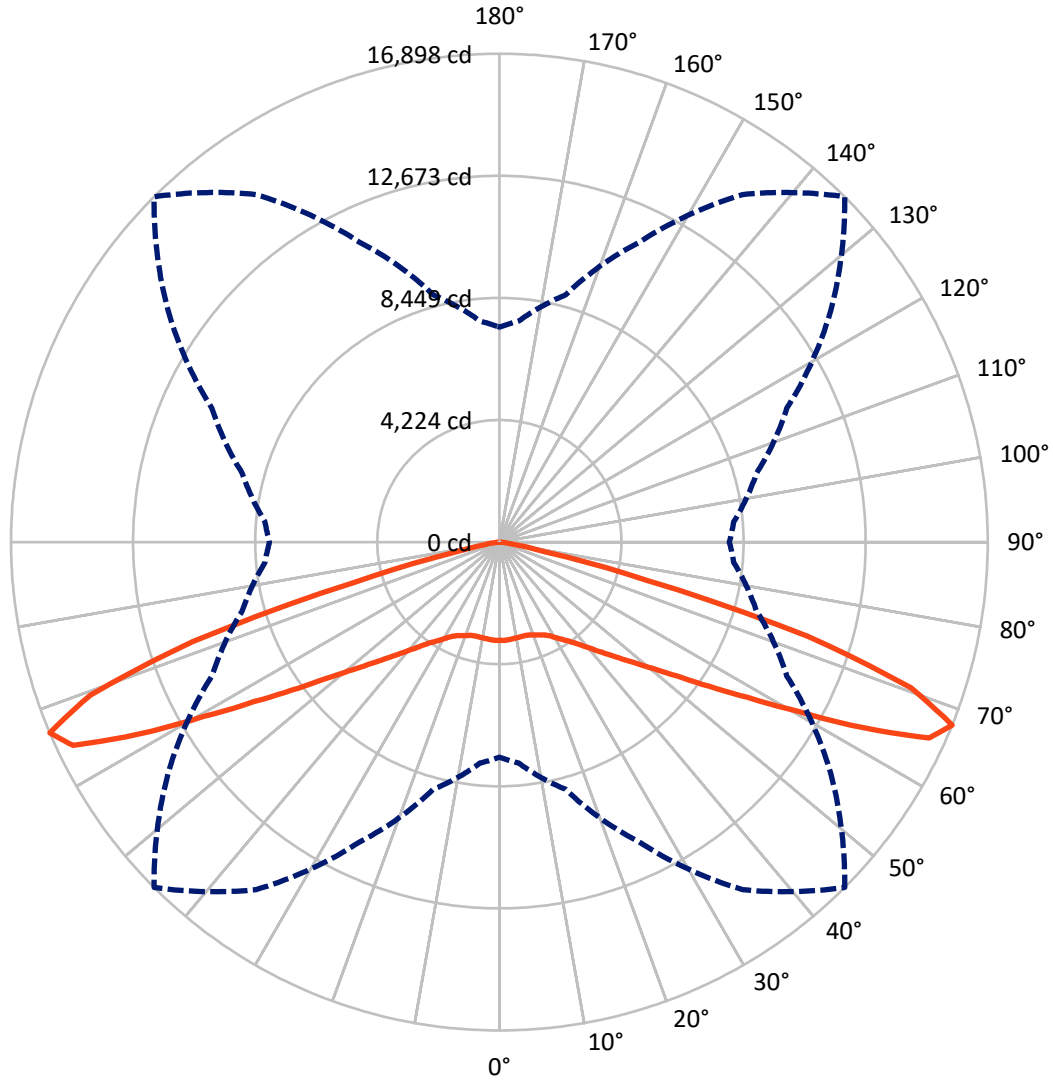
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16209.0	0.0	16209.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16209.0	0.0	16209.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32418.1	0.0	32418.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.3	1.0
10°-20°	943.8	2.9
20°-30°	1627.8	5.0
30°-40°	2646.9	8.2
40°-50°	4456.9	13.7
50°-60°	7896.7	24.4
60°-70°	11287.8	34.8
70°-80°	3098.0	9.6
80°-90°	138.8	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°	32418.1	100.0
0°-180°	32418.1	100.0

Coefficient of Utilization



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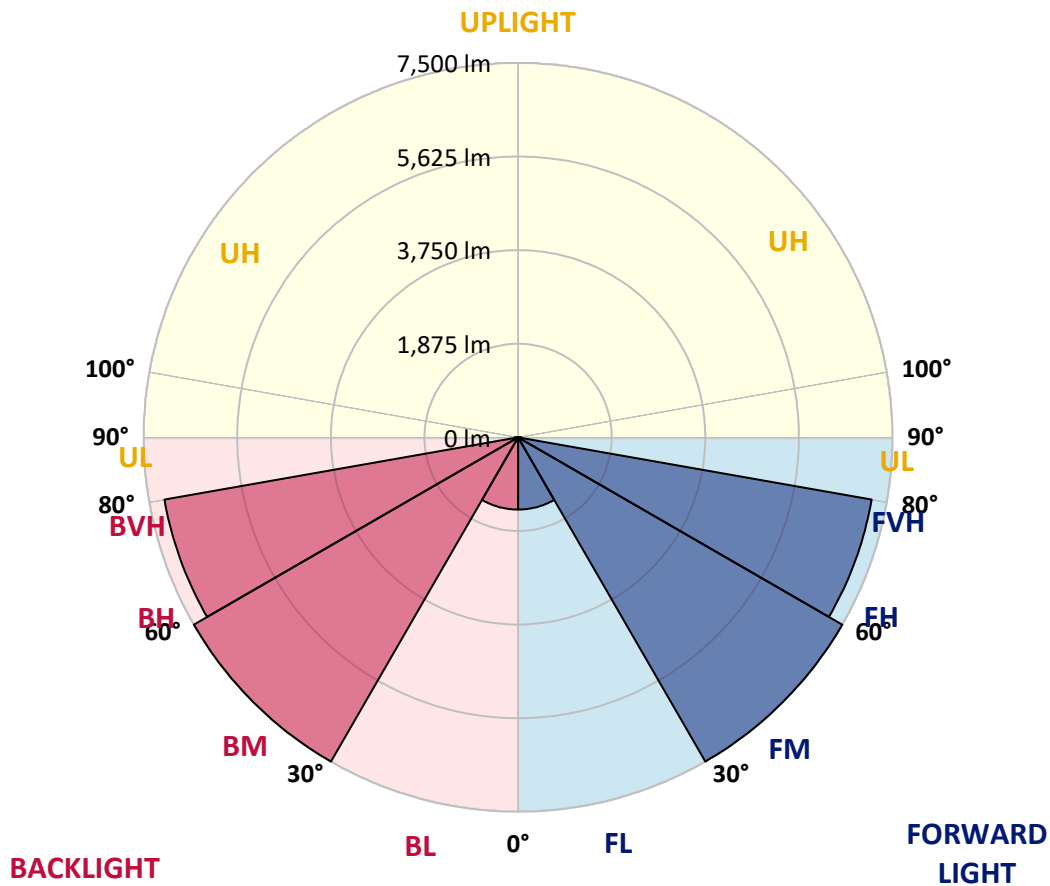
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1446.5	4.5			
FM (30°-60°)	7500.2	23.1			
FH (60°-80°)	7192.9	22.2			G3/7500
FVH (80°-90°)	69.4	0.2			G1/100
BL (0°-30°)	1446.5	4.5	B3/2500		
BM (30°-60°)	7500.2	23.1	B4/8500		
BH (60°-80°)	7192.9	22.2	B5		G3/7500
BVH (80°-90°)	69.4	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2
2.5°	3372.8	3370.5	3381.8	3388.5	3386.2	3402.0	3399.7	3395.2	3395.2	3388.5	3406.4
5°	3372.8	3370.5	3379.5	3381.8	3377.3	3390.7	3386.2	3381.8	3381.8	3372.8	3388.5
7.5°	3354.8	3357.1	3363.8	3368.3	3363.8	3375.0	3368.3	3359.3	3357.1	3348.1	3363.8
10°	3321.2	3323.4	3330.1	3341.4	3343.6	3363.8	3352.6	3336.9	3330.1	3321.2	3336.9
12.5°	3301.0	3303.2	3310.0	3323.4	3327.9	3354.8	3343.6	3318.9	3307.7	3298.7	3314.4
15°	3296.5	3298.7	3307.7	3321.2	3327.9	3354.8	3343.6	3314.4	3298.7	3287.5	3301.0
17.5°	3296.5	3301.0	3314.4	3334.6	3348.1	3375.0	3361.6	3327.9	3305.5	3285.3	3298.7
20°	3298.7	3305.5	3325.7	3354.8	3388.5	3426.6	3408.7	3363.8	3332.4	3307.7	3316.7
22.5°	3318.9	3330.1	3354.8	3393.0	3442.3	3487.2	3471.5	3410.9	3366.1	3332.4	3341.4
25°	3388.5	3393.0	3424.4	3473.8	3520.9	3559.0	3543.3	3487.2	3431.1	3390.7	3402.0
27.5°	3511.9	3523.1	3550.1	3601.7	3642.1	3662.3	3660.0	3621.9	3565.8	3529.9	3538.8
30°	3660.0	3671.2	3707.1	3765.5	3805.9	3828.3	3821.6	3792.4	3740.8	3691.4	3700.4
32.5°	3832.8	3837.3	3879.9	3945.0	3987.7	4021.3	3998.9	3967.5	3902.4	3844.0	3848.5
35°	4052.7	4059.5	4104.3	4164.9	4198.6	4225.5	4221.0	4189.6	4120.0	4057.2	4072.9
37.5°	4328.7	4333.2	4373.6	4449.9	4476.8	4497.0	4501.5	4485.8	4414.0	4333.2	4348.9
40°	4672.1	4674.3	4719.2	4786.5	4815.7	4829.2	4831.4	4833.7	4759.6	4699.0	4694.5
42.5°	5071.5	5082.7	5145.6	5210.6	5224.1	5217.4	5239.8	5262.3	5190.5	5107.4	5114.2
45°	5549.5	5556.2	5641.5	5713.3	5688.6	5666.2	5708.8	5753.7	5688.6	5580.9	5549.5
47.5°	6115.0	6128.5	6220.5	6292.3	6251.9	6211.5	6281.1	6328.2	6222.7	6108.3	6079.1
50°	6754.5	6763.5	6893.7	6983.4	6936.3	6862.3	6949.8	6999.1	6857.8	6716.4	6653.6
52.5°	7510.8	7492.8	7665.6	7822.7	7793.5	7697.0	7768.8	7777.8	7566.9	7367.2	7304.3
55°	8433.1	8415.1	8587.9	8760.7	8832.5	8807.8	8774.2	8720.3	8408.4	8195.2	8136.9
57.5°	9508.0	9451.9	9694.2	9927.6	10084.7	10129.6	9986.0	9860.3	9613.4	9350.9	9283.6
60°	10506.6	10504.3	10888.1	11292.0	11722.8	11902.4	11538.8	11197.7	10643.5	10165.5	10069.0
62.5°	10787.1	10834.2	11462.5	12463.4	13527.0	14162.1	13203.9	12075.2	11004.7	10284.4	10156.5
65°	10095.9	10212.6	11105.7	12685.5	14785.9	16338.8	14175.6	12095.3	10603.1	9705.5	9570.8
67.5°	7441.2	7674.6	8857.2	11446.8	14678.2	16897.6	14002.8	10975.6	9209.5	8141.4	7955.1
70°	3671.2	3893.4	4831.4	7531.0	12077.4	15104.6	12115.5	8271.5	6220.5	5192.7	5022.2
72.5°	1350.9	1440.7	1808.7	3222.4	6664.8	11157.3	8285.0	4620.5	3013.7	2398.9	2284.4
75°	662.0	677.7	733.8	1081.6	2459.5	5251.0	3893.4	1772.8	1108.6	964.9	933.5
77.5°	421.9	428.6	455.5	516.1	789.9	1653.9	1180.4	700.1	543.1	520.6	520.6
80°	235.6	242.4	278.3	320.9	370.3	567.7	424.1	419.6	356.8	311.9	305.2
82.5°	112.2	123.4	177.3	175.0	195.2	285.0	249.1	226.6	228.9	172.8	163.8
85°	51.6	51.6	69.6	83.0	87.5	96.5	114.4	130.2	127.9	87.5	94.2
87.5°	24.7	24.7	24.7	22.4	20.2	18.0	24.7	40.4	58.3	40.4	38.1
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)