

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: P638238

Luminaire Tested: GWS-SA4E-740-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638238
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-SA4E-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: 31985.8 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

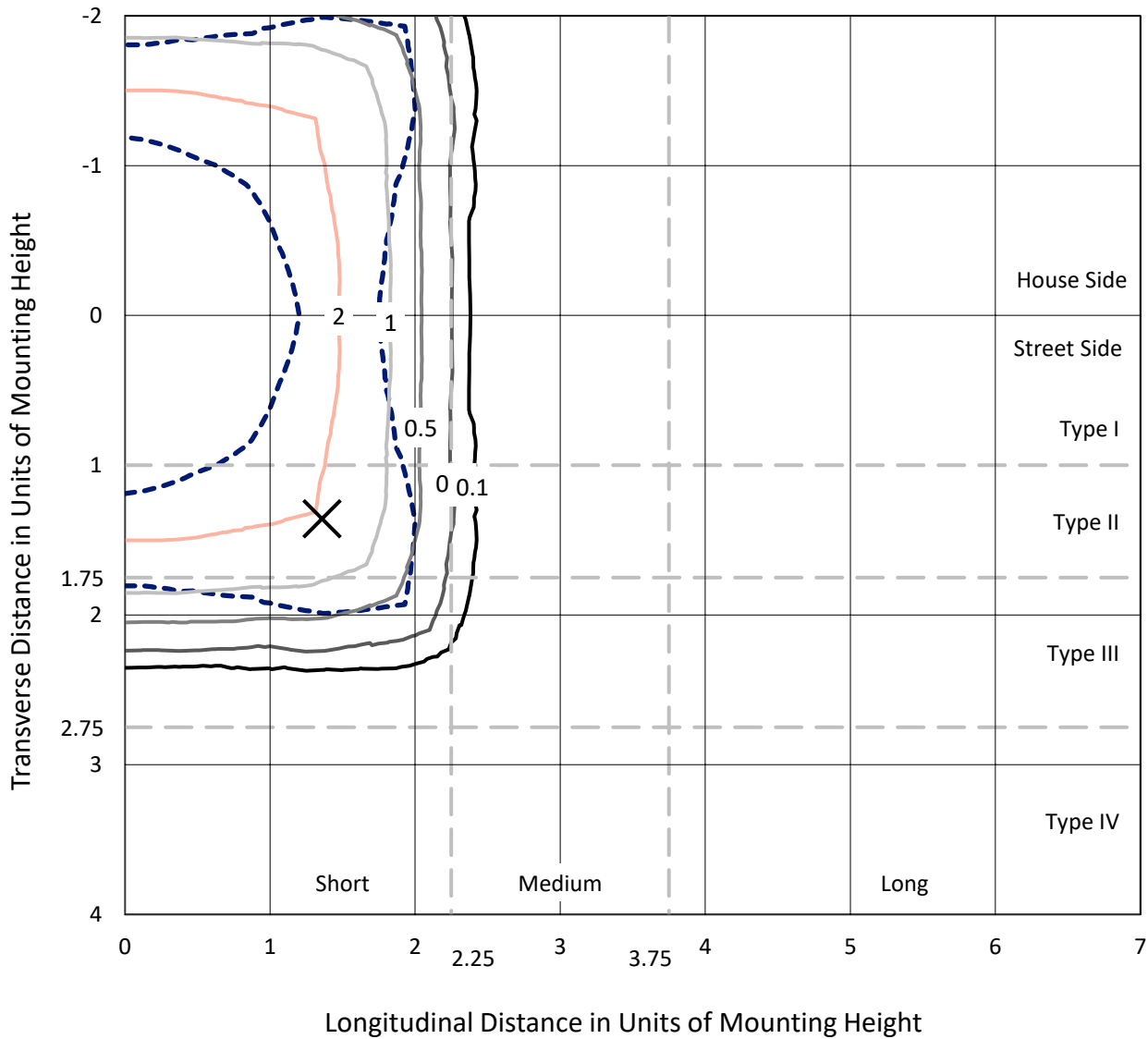
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

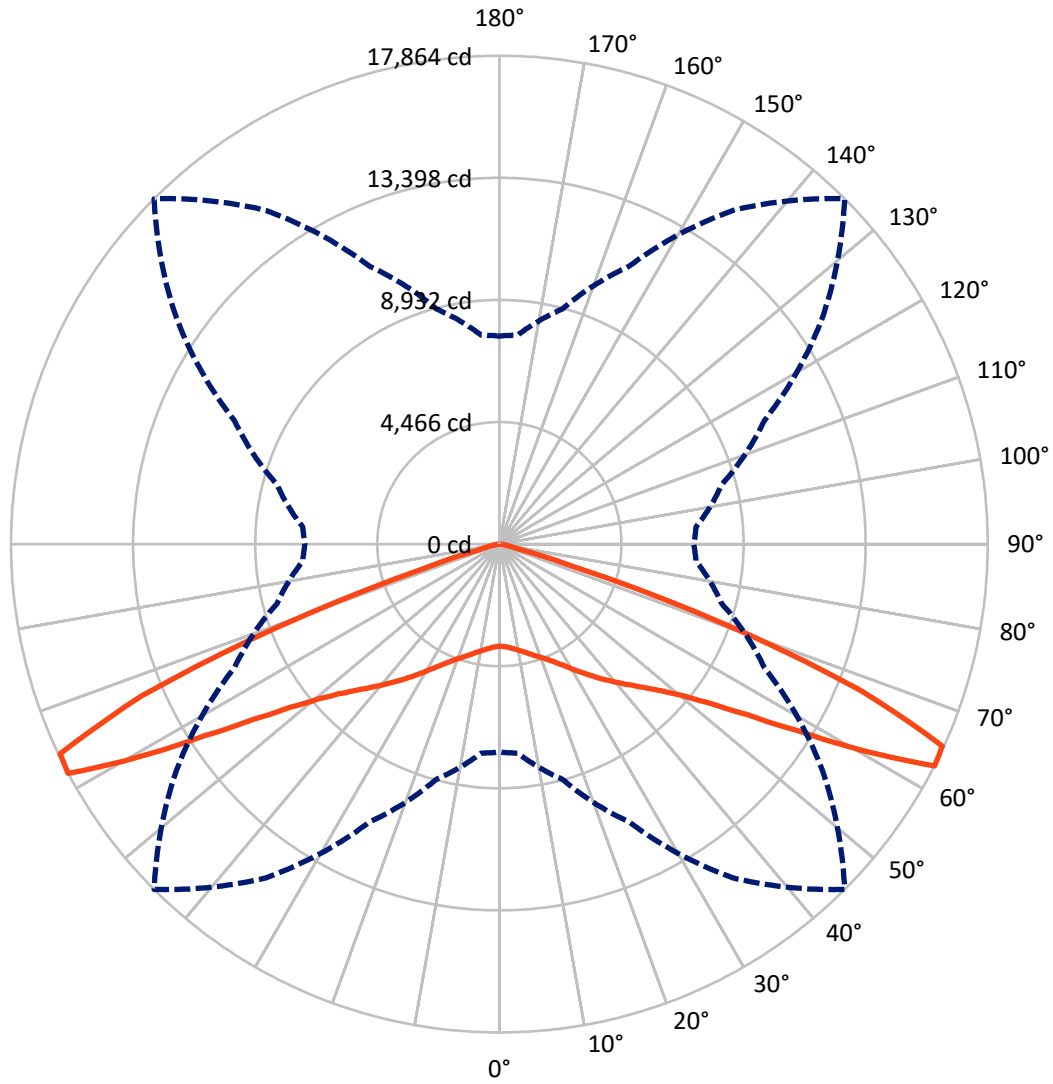
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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	15992.9	0.0	15992.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15992.9	0.0	15992.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	31985.8	0.0	31985.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.1	1.1
10°-20°	1180.7	3.7
20°-30°	2233.7	7.0
30°-40°	3759.6	11.8
40°-50°	6006.8	18.8
50°-60°	9682.6	30.3
60°-70°	7899.9	24.7
70°-80°	767.2	2.4
80°-90°	89.3	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°	31985.8	100.0
0°-180°	31985.8	100.0

Coefficient of Utilization



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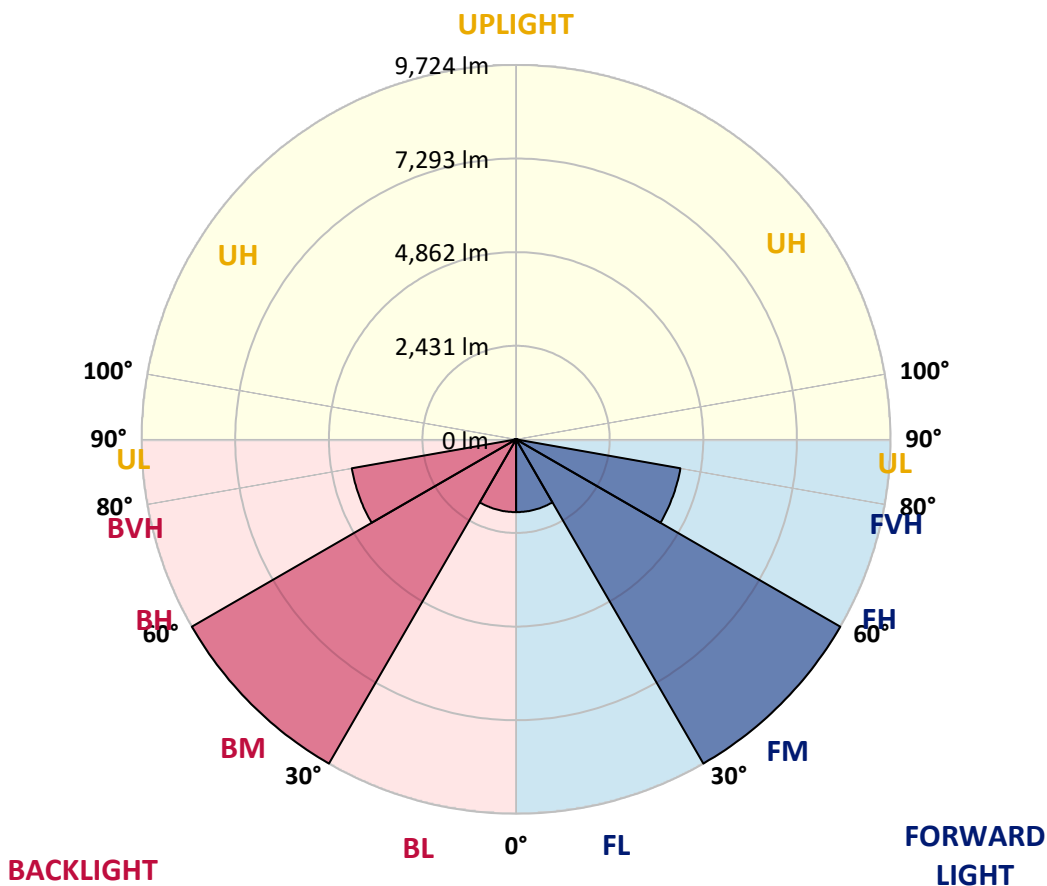
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1890.2	5.9			
FM (30°-60°)	9724.5	30.4			
FH (60°-80°)	4333.5	13.5			G2/5000
FVH (80°-90°)	44.6	0.1			G1/100
BL (0°-30°)	1890.2	5.9	B3/2500		
BM (30°-60°)	9724.5	30.4	B5		
BH (60°-80°)	4333.5	13.5	B4/5000		G2/5000
BVH (80°-90°)	44.6	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°	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6	3731.6
2.5°	3727.2	3727.2	3736.0	3742.5	3738.2	3755.7	3753.5	3749.1	3746.9	3740.3	3760.1
5°	3777.6	3777.6	3784.2	3790.8	3779.8	3801.8	3793.0	3788.6	3786.4	3777.6	3795.2
7.5°	3834.7	3841.3	3843.5	3854.4	3847.8	3872.0	3865.4	3856.6	3852.2	3841.3	3856.6
10°	3898.3	3902.7	3904.9	3924.6	3926.8	3955.3	3948.8	3937.8	3929.0	3918.0	3940.0
12.5°	3983.9	3986.1	3992.6	4016.8	4023.3	4045.3	4043.1	4027.7	4016.8	4001.4	4025.5
15°	4093.5	4095.7	4106.7	4130.8	4141.8	4168.1	4159.4	4135.2	4119.9	4102.3	4122.1
17.5°	4207.6	4216.4	4227.4	4251.5	4266.9	4297.6	4286.6	4260.3	4247.1	4229.6	4242.7
20°	4354.6	4356.8	4363.4	4389.7	4400.7	4435.8	4438.0	4411.6	4405.1	4387.5	4407.3
22.5°	4516.9	4519.1	4525.7	4554.2	4574.0	4595.9	4609.1	4593.7	4582.8	4560.8	4584.9
25°	4696.8	4718.8	4725.3	4760.4	4782.4	4795.5	4810.9	4804.3	4789.0	4762.6	4773.6
27.5°	4949.1	4953.5	4964.5	5004.0	5017.1	5030.3	5045.6	5047.8	5025.9	4995.2	5010.5
30°	5236.5	5234.3	5258.4	5289.1	5300.1	5311.1	5333.0	5346.2	5317.7	5284.8	5300.1
32.5°	5530.5	5556.8	5587.5	5616.0	5609.4	5613.8	5648.9	5673.0	5633.6	5574.3	5587.5
35°	5861.7	5879.3	5918.7	5960.4	5951.7	5945.1	5967.0	5991.1	5936.3	5859.5	5879.3
37.5°	6201.7	6228.1	6287.3	6337.8	6324.6	6293.9	6318.0	6344.3	6291.7	6203.9	6195.2
40°	6581.3	6622.9	6708.5	6750.2	6715.1	6655.8	6697.5	6761.1	6708.5	6607.6	6583.5
42.5°	7026.6	7077.0	7162.6	7226.2	7149.4	7052.9	7123.1	7215.3	7202.1	7068.3	7026.6
45°	7577.2	7610.1	7715.4	7746.1	7632.1	7498.2	7625.5	7765.9	7733.0	7588.2	7533.3
47.5°	8176.1	8226.6	8318.7	8375.8	8191.5	8024.8	8202.4	8391.1	8356.0	8220.0	8156.4
50°	8939.5	9005.4	9126.0	9174.3	8919.8	8728.9	8957.1	9196.2	9128.2	8946.1	8862.8
52.5°	9771.0	9823.6	10029.8	10126.4	9887.2	9681.0	9880.7	10115.4	9970.6	9729.3	9617.4
55°	10503.7	10556.3	10859.1	11179.4	11168.4	11025.8	11126.7	11131.1	10738.4	10339.2	10220.7
57.5°	10661.6	10714.3	11291.2	12129.3	12721.6	12886.1	12590.0	11966.9	10977.5	10277.7	10143.9
60°	9819.2	9878.5	10795.5	12326.7	14274.8	15373.8	14009.3	11949.4	10238.2	9290.5	9163.3
62.5°	7607.9	7671.6	8904.4	11203.5	14902.2	17863.7	14421.7	10692.4	8421.8	7221.8	7110.0
65°	3632.9	3632.9	5199.2	8035.7	13651.7	17804.5	13228.3	7910.7	5069.8	3893.9	3797.4
67.5°	899.4	903.8	1338.2	3128.3	9286.2	14208.9	9437.5	3797.4	1785.7	1263.6	1230.7
70°	561.6	559.4	620.8	846.8	3248.9	8623.6	3858.8	1145.1	726.1	640.6	636.2
72.5°	436.6	436.6	467.3	541.9	851.2	2937.4	1125.4	636.2	526.5	473.9	473.9
75°	344.4	344.4	366.4	405.8	502.4	756.8	598.9	471.7	408.0	372.9	368.6
77.5°	256.7	261.1	278.6	304.9	342.2	425.6	379.5	355.4	318.1	291.8	283.0
80°	166.7	173.3	195.2	210.6	223.8	280.8	247.9	258.9	241.3	210.6	206.2
82.5°	89.9	92.1	118.5	122.9	127.2	153.6	158.0	164.5	171.1	133.8	125.0
85°	32.9	32.9	39.5	46.1	50.5	54.8	74.6	92.1	96.5	76.8	74.6
87.5°	6.6	6.6	6.6	4.4	4.4	4.4	13.2	24.1	39.5	30.7	30.7
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)