

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: P638181

Luminaire Tested: GWS-SA4E-735-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21239.3 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

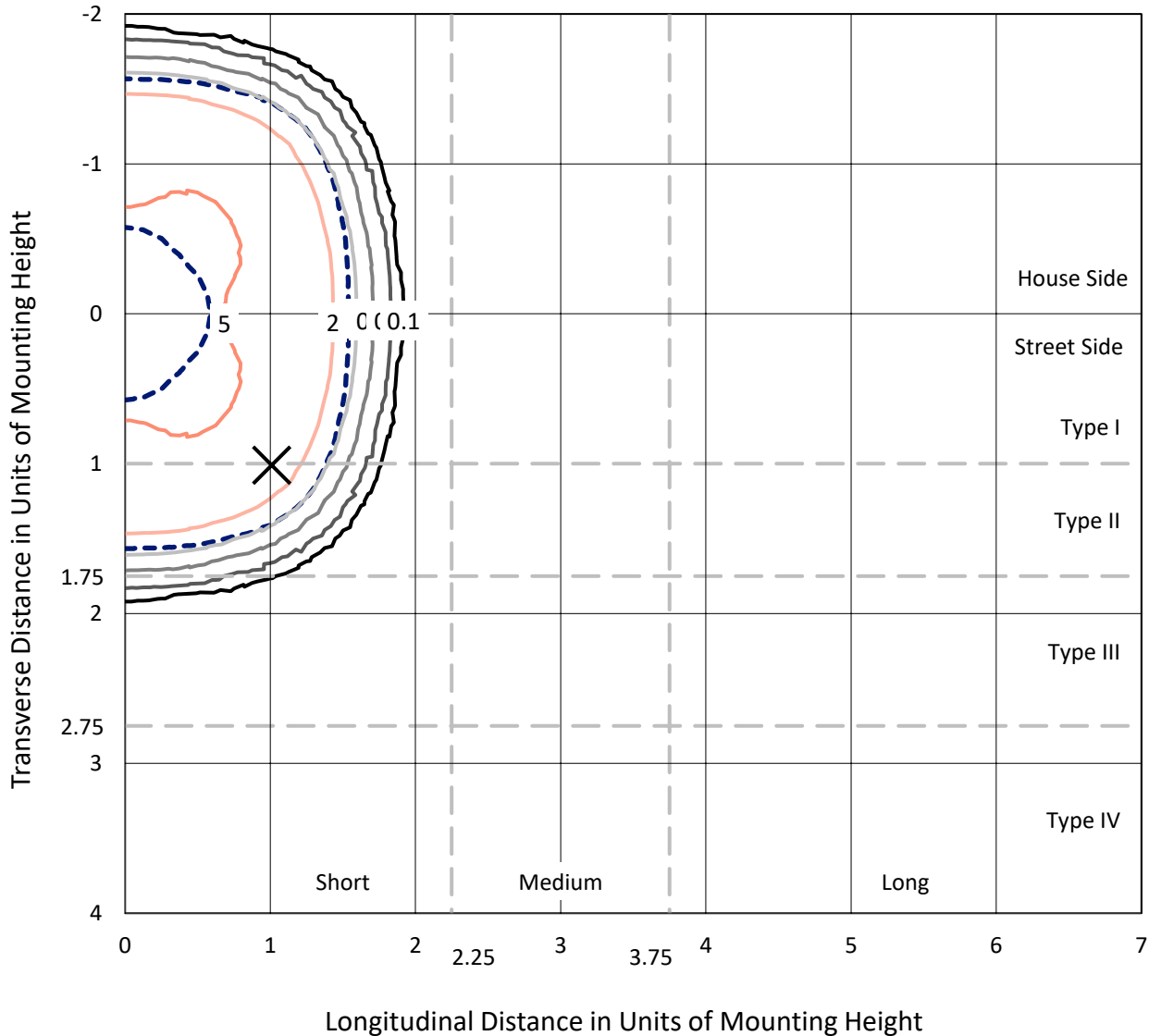
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

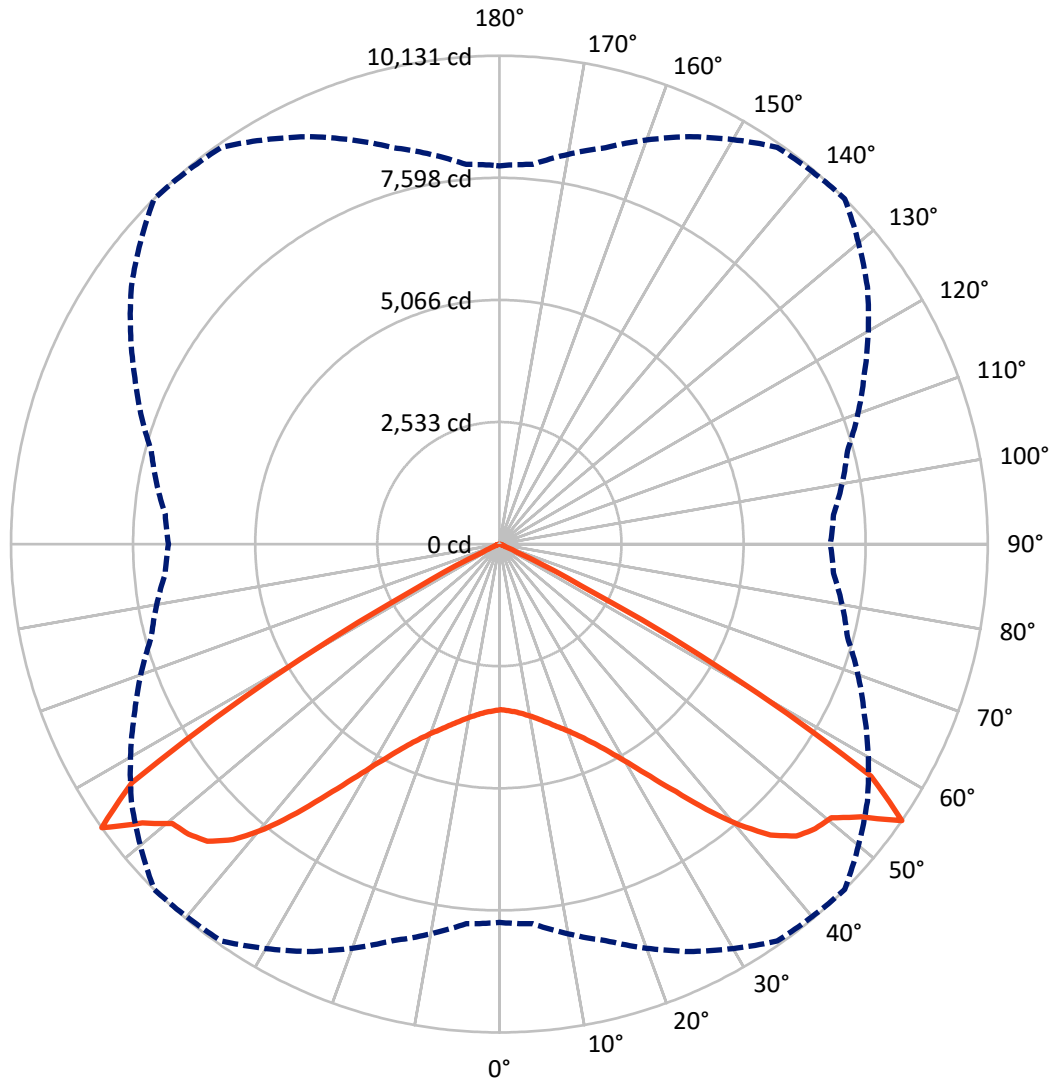
✕ Max cd
 - - - 1/2 Max cd



Based on 25 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 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10619.7	0.0	10619.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10619.7	0.0	10619.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	21239.3	0.0	21239.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.5	1.6
10°-20°	1090.6	5.1
20°-30°	2112.2	9.9
30°-40°	3784.0	17.8
40°-50°	6344.2	29.9
50°-60°	6791.2	32.0
60°-70°	746.3	3.5
70°-80°	32.9	0.2
80°-90°	1.5	0.0
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°	21239.3	100.0
0°-180°	21239.3	100.0

Coefficient of Utilization



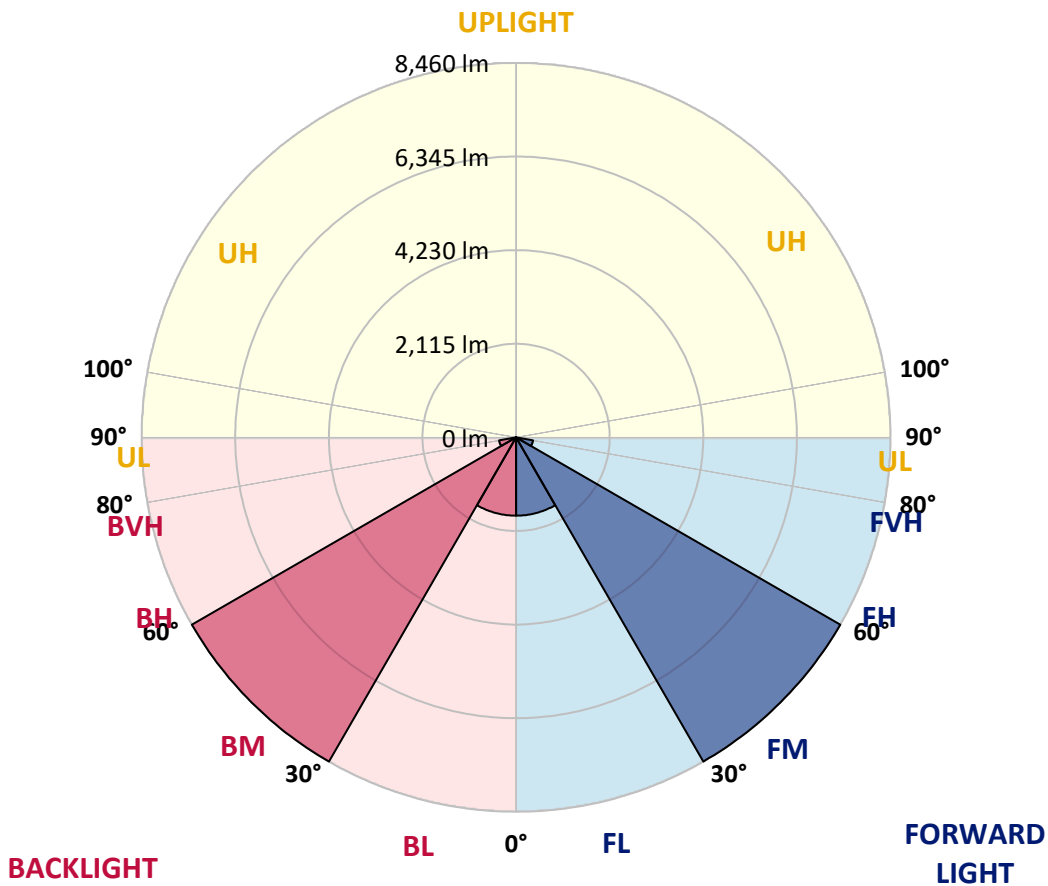
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1769.6	8.3			
FM (30°-60°)	8459.7	39.8			
FH (60°-80°)	389.6	1.8			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	1769.6	8.3	B3/2500		
BM (30°-60°)	8459.7	39.8	B4/8500		
BH (60°-80°)	389.6	1.8	B1/500		G0/660
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3434.0	3434.0	3434.0	3434.0	3434.0	3434.0	3434.0	3434.0	3434.0	3434.0	3434.0
2.5°	3427.5	3427.5	3436.1	3442.6	3442.6	3460.0	3453.5	3447.0	3447.0	3438.3	3455.6
5°	3477.3	3475.1	3483.8	3488.1	3479.4	3496.7	3485.9	3479.4	3475.1	3466.4	3483.8
7.5°	3531.4	3533.5	3535.7	3544.3	3540.0	3557.3	3548.7	3535.7	3531.4	3518.4	3535.7
10°	3596.3	3596.3	3600.6	3611.4	3613.6	3635.2	3626.6	3611.4	3598.4	3585.5	3602.8
12.5°	3678.5	3680.7	3687.2	3702.3	3711.0	3734.8	3721.8	3691.5	3672.0	3656.9	3676.3
15°	3797.5	3795.3	3804.0	3825.6	3836.5	3853.8	3834.3	3793.2	3769.4	3752.1	3765.1
17.5°	3927.3	3927.3	3931.7	3953.3	3968.4	3994.4	3970.6	3920.8	3899.2	3875.4	3888.4
20°	4070.1	4076.6	4081.0	4096.1	4122.1	4148.0	4128.6	4078.8	4055.0	4024.7	4039.9
22.5°	4258.4	4251.9	4254.1	4280.0	4316.8	4342.8	4327.6	4269.2	4228.1	4204.3	4213.0
25°	4468.3	4466.1	4472.6	4511.6	4552.7	4580.8	4559.2	4483.4	4442.3	4401.2	4418.5
27.5°	4725.8	4728.0	4732.3	4779.9	4844.8	4885.9	4831.8	4756.1	4699.8	4645.7	4658.7
30°	5030.9	5026.6	5039.5	5104.5	5199.7	5264.6	5201.8	5095.8	5015.7	4963.8	4970.3
32.5°	5355.5	5359.8	5394.4	5498.3	5623.8	5738.5	5610.8	5470.1	5366.3	5268.9	5281.9
35°	5706.0	5716.8	5794.7	5948.3	6153.9	6307.5	6130.1	5898.6	5751.4	5625.9	5630.3
37.5°	6119.3	6145.3	6253.4	6482.8	6777.1	6982.7	6723.0	6415.7	6225.3	6069.5	6058.7
40°	6662.4	6692.7	6839.8	7112.5	7469.5	7657.8	7357.0	7041.1	6805.2	6636.4	6610.5
42.5°	7285.6	7324.5	7484.7	7763.8	8120.8	8248.5	7954.2	7688.1	7476.0	7276.9	7268.3
45°	7988.8	8010.5	8140.3	8354.5	8612.0	8642.3	8421.6	8274.5	8060.2	7874.1	7859.0
47.5°	8648.8	8670.4	8759.2	8869.5	8930.1	8821.9	8783.0	8718.0	8441.1	8211.7	8164.1
50°	9150.8	9168.1	9278.5	9321.7	9153.0	8923.6	8999.3	8860.9	8560.1	8302.6	8229.0
52.5°	9116.2	9159.5	9442.9	9689.6	9583.6	9397.5	9194.1	8895.5	8428.1	8075.4	7984.5
55°	7848.2	7906.6	8514.6	9326.1	10051.0	10131.0	9317.4	8354.5	7476.0	6958.9	6865.8
57.5°	5043.9	5059.0	5801.2	6939.4	8573.1	9088.1	7727.0	6298.9	5206.2	4637.1	4598.1
60°	1854.4	1824.1	2384.5	3328.0	4937.8	5483.1	4548.4	3185.1	2272.0	1869.5	1837.1
62.5°	445.7	450.1	558.3	837.4	1549.3	1917.1	1514.7	846.1	538.8	452.2	447.9
65°	225.0	220.7	222.9	240.2	331.1	396.0	324.6	229.4	220.7	222.9	220.7
67.5°	145.0	142.8	147.1	149.3	147.1	138.5	136.3	140.6	140.6	142.8	138.5
70°	88.7	86.6	90.9	97.4	93.0	82.2	86.6	90.9	86.6	84.4	84.4
72.5°	47.6	47.6	51.9	56.3	51.9	47.6	47.6	49.8	47.6	47.6	47.6
75°	21.6	21.6	23.8	26.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6
77.5°	6.5	6.5	8.7	8.7	6.5	6.5	6.5	6.5	8.7	8.7	8.7
80°	2.2	4.3	4.3	2.2	2.2	2.2	2.2	2.2	4.3	4.3	4.3
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
85°	2.2	2.2	2.2	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2
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)