

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: P637855

Luminaire Tested: GWS-SA4D-760-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-5WQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20866.1 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

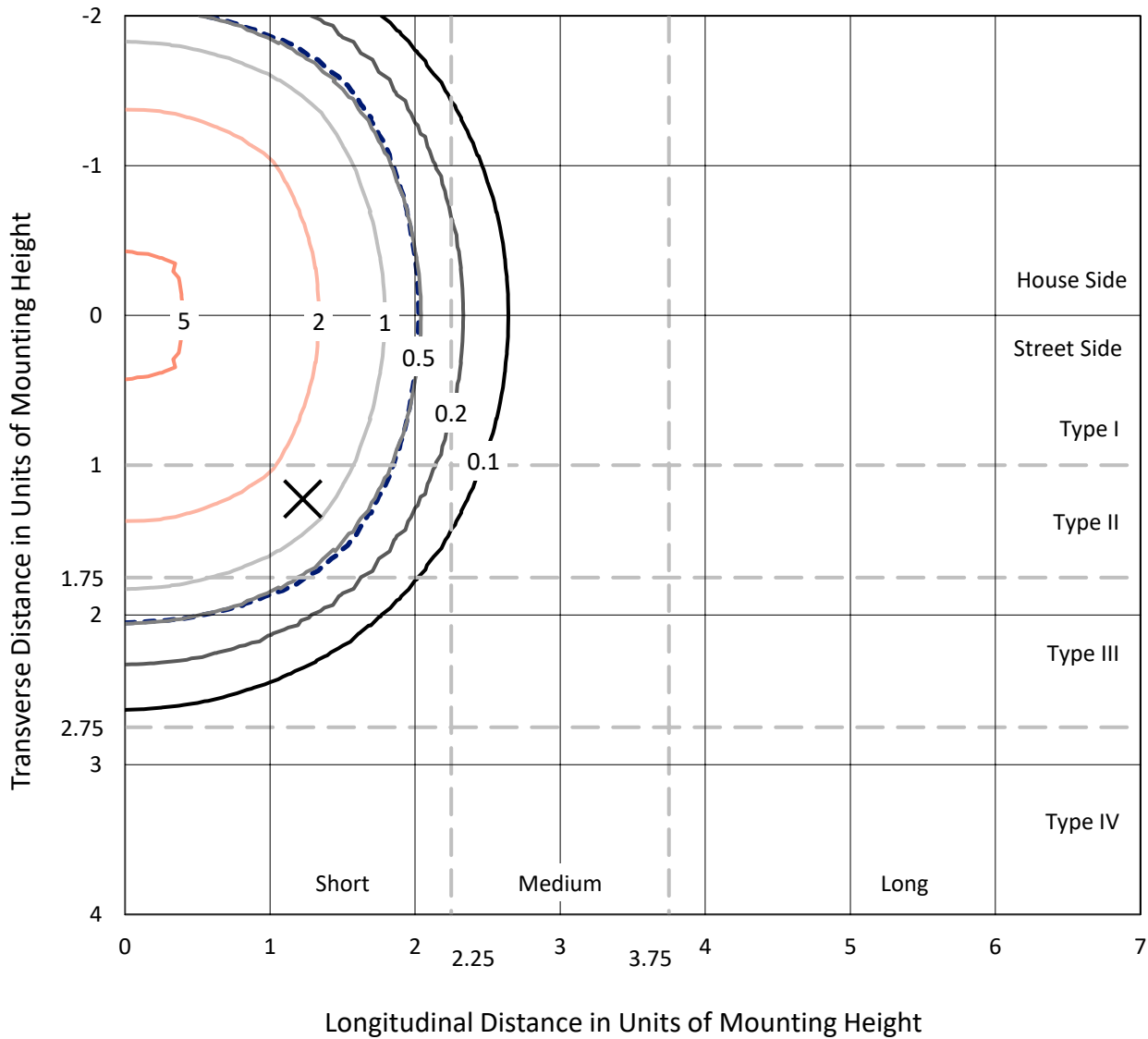
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

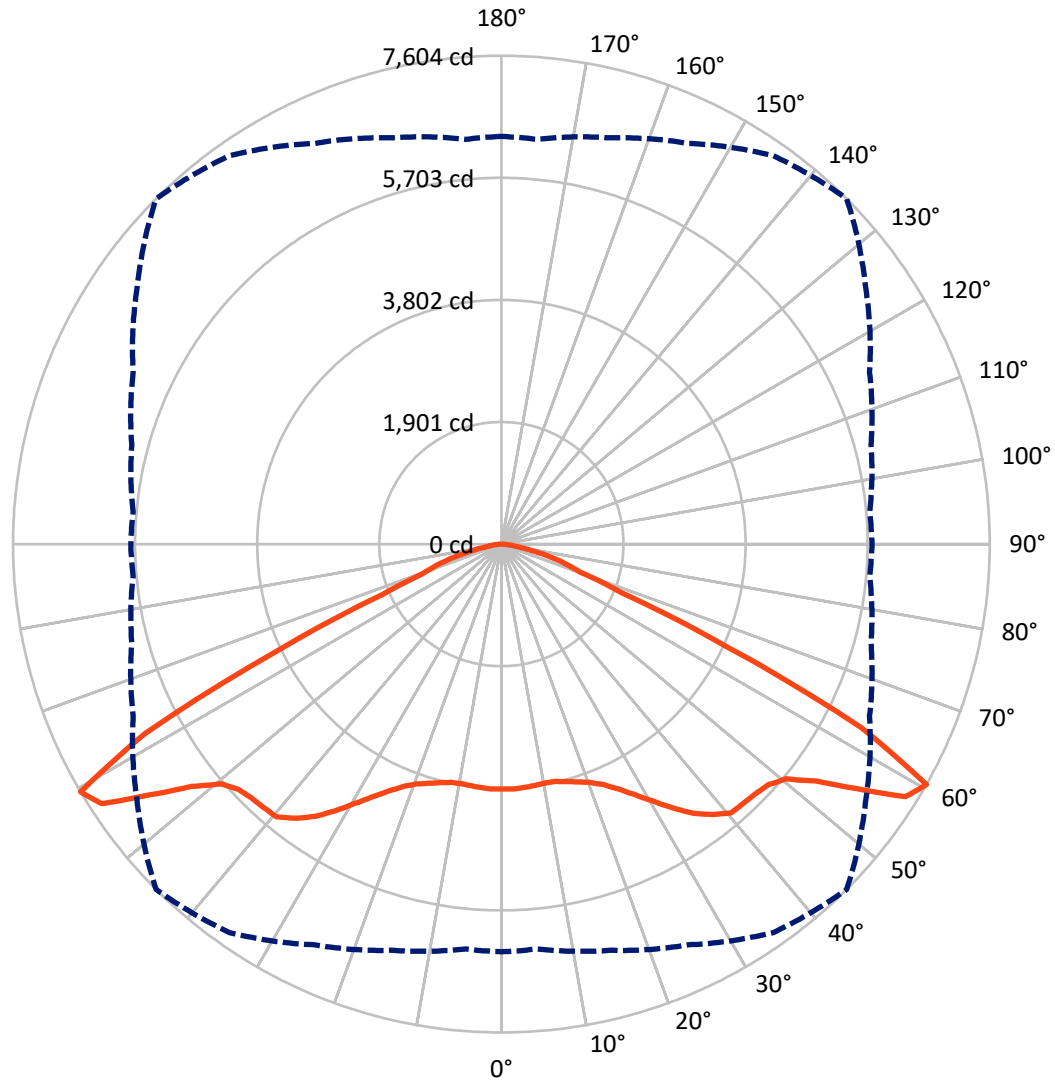
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10433.1	0.0	10433.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10433.1	0.0	10433.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	20866.1	0.0	20866.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.6	1.7
10°-20°	1087.7	5.2
20°-30°	1924.4	9.2
30°-40°	3098.3	14.8
40°-50°	4258.5	20.4
50°-60°	5675.0	27.2
60°-70°	3536.9	17.0
70°-80°	813.3	3.9
80°-90°	110.3	0.5
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°	20866.1	100.0
0°-180°	20866.1	100.0

Coefficient of Utilization



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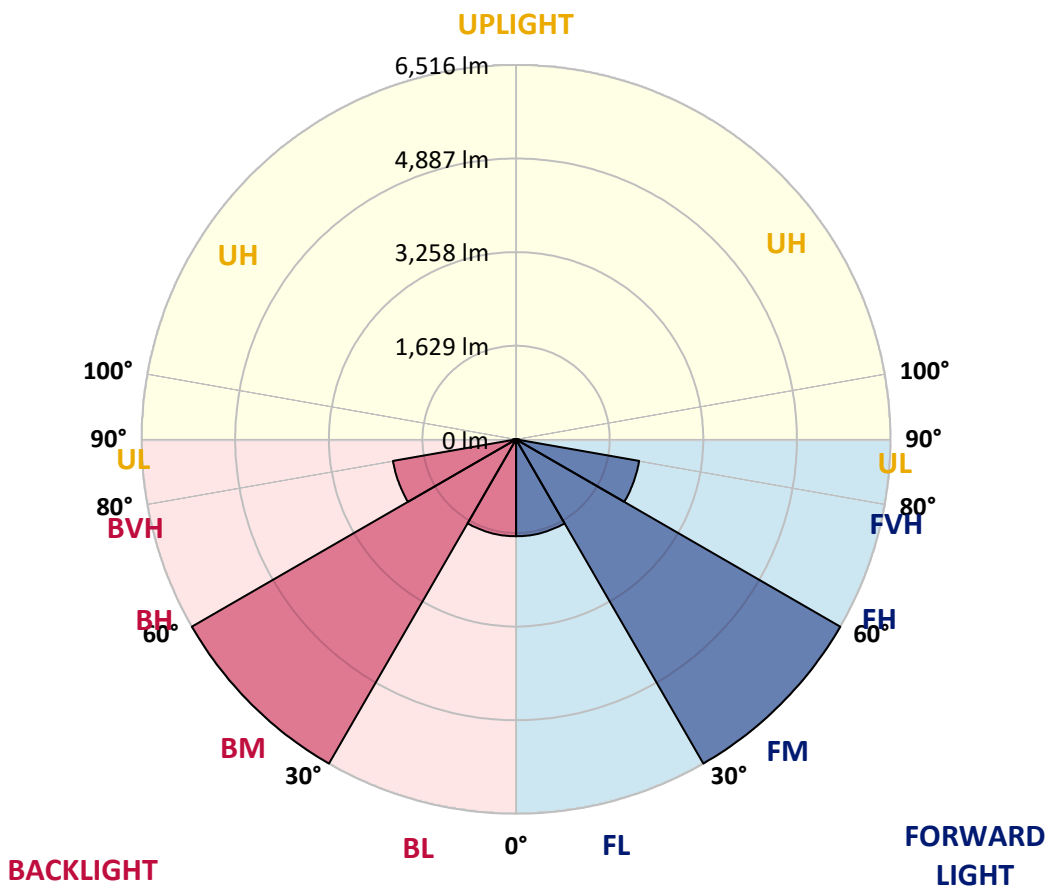
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1686.9	8.1			
FM (30°-60°)	6515.9	31.2			
FH (60°-80°)	2175.1	10.4			G2/5000
FVH (80°-90°)	55.2	0.3			G1/100
BL (0°-30°)	1686.9	8.1	B3/2500		
BM (30°-60°)	6515.9	31.2	B4/8500		
BH (60°-80°)	2175.1	10.4	B3/2500		G2/5000
BVH (80°-90°)	55.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2
2.5°	3786.7	3790.2	3797.3	3802.6	3809.7	3816.8	3820.3	3813.2	3809.7	3795.5	3811.5
5°	3790.2	3793.8	3799.1	3799.1	3800.9	3806.2	3806.2	3797.3	3788.5	3772.5	3790.2
7.5°	3784.9	3788.5	3790.2	3788.5	3790.2	3792.0	3788.5	3777.8	3769.0	3754.8	3769.0
10°	3776.1	3779.6	3783.1	3779.6	3776.1	3781.4	3781.4	3774.3	3769.0	3754.8	3770.7
12.5°	3795.5	3800.9	3802.6	3793.8	3790.2	3792.0	3792.0	3784.9	3784.9	3772.5	3790.2
15°	3841.6	3845.1	3839.8	3829.2	3831.0	3836.3	3823.9	3806.2	3802.6	3797.3	3811.5
17.5°	3877.0	3880.6	3875.2	3868.2	3880.6	3893.0	3869.9	3836.3	3825.6	3822.1	3838.0
20°	3916.0	3921.3	3914.2	3923.1	3947.9	3962.0	3933.7	3887.6	3866.4	3861.1	3880.6
22.5°	3979.7	3986.8	3986.8	4006.3	4043.5	4066.5	4031.1	3969.1	3937.2	3928.4	3947.9
25°	4080.7	4086.0	4091.3	4130.3	4190.5	4222.4	4165.7	4080.7	4036.4	4022.2	4032.9
27.5°	4220.6	4229.5	4238.3	4295.0	4369.4	4415.4	4334.0	4227.7	4172.8	4144.5	4165.7
30°	4387.1	4399.5	4420.7	4484.5	4589.0	4640.4	4535.9	4406.6	4344.6	4314.5	4342.8
32.5°	4613.8	4615.6	4631.5	4702.4	4840.5	4899.0	4767.9	4624.4	4560.7	4525.2	4541.2
35°	4883.0	4884.8	4860.0	4932.6	5081.4	5146.9	4992.8	4847.6	4794.5	4783.8	4824.6
37.5°	5159.3	5143.4	5118.6	5150.5	5301.0	5343.5	5180.6	5056.6	5033.6	5053.0	5113.3
40°	5355.9	5329.3	5279.7	5302.8	5455.1	5504.7	5331.1	5214.2	5207.1	5255.0	5327.6
42.5°	5483.4	5455.1	5396.6	5396.6	5501.1	5522.4	5387.8	5325.8	5341.7	5396.6	5465.7
45°	5545.4	5529.5	5495.8	5478.1	5536.6	5545.4	5442.7	5417.9	5448.0	5474.6	5527.7
47.5°	5593.2	5593.2	5582.6	5564.9	5591.5	5596.8	5520.6	5513.5	5552.5	5552.5	5587.9
50°	5678.3	5687.1	5701.3	5697.7	5726.1	5743.8	5687.1	5676.5	5692.4	5641.1	5658.8
52.5°	5901.4	5924.4	5965.2	5997.1	6069.7	6124.6	6023.6	5938.6	5855.4	5742.0	5745.6
55°	6301.7	6312.3	6392.0	6485.9	6608.1	6719.7	6512.5	6248.6	6067.9	5935.1	5936.8
57.5°	6640.0	6655.9	6772.8	6969.4	7243.9	7417.5	6958.8	6517.8	6262.7	6099.8	6105.1
60°	6347.7	6326.5	6547.9	6884.4	7382.1	7603.5	6926.9	6324.7	5958.1	5756.2	5770.4
62.5°	4911.4	4870.6	5116.8	5469.3	6066.1	6287.5	5664.1	5086.7	4739.6	4581.9	4558.9
65°	2989.7	2952.5	3129.6	3345.7	3749.5	3889.4	3604.3	3297.9	2995.0	2899.3	2872.8
67.5°	1627.7	1622.4	1670.2	1776.4	1953.6	2019.1	1964.2	1819.0	1741.0	1673.7	1673.7
70°	1291.2	1280.5	1271.7	1273.4	1289.4	1298.2	1300.0	1292.9	1301.8	1303.6	1296.5
72.5°	1069.8	1066.2	1048.5	1050.3	1043.2	1039.7	1052.1	1059.1	1073.3	1075.1	1075.1
75°	775.8	766.9	775.8	777.5	770.4	770.4	779.3	777.5	784.6	788.2	768.7
77.5°	441.0	441.0	453.4	467.6	478.2	478.2	487.1	487.1	495.9	494.1	490.6
80°	242.6	242.6	249.7	258.6	269.2	279.8	288.7	290.5	295.8	294.0	288.7
82.5°	138.1	139.9	143.5	148.8	159.4	168.3	177.1	178.9	184.2	184.2	178.9
85°	65.5	63.8	65.5	69.1	74.4	81.5	90.3	95.6	99.2	99.2	95.6
87.5°	12.4	14.2	12.4	14.2	15.9	21.3	24.8	28.3	33.7	35.4	31.9
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)