

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: P638240

Luminaire Tested: GWS-SA4E-740-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638240
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-SA4E-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25845.3 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

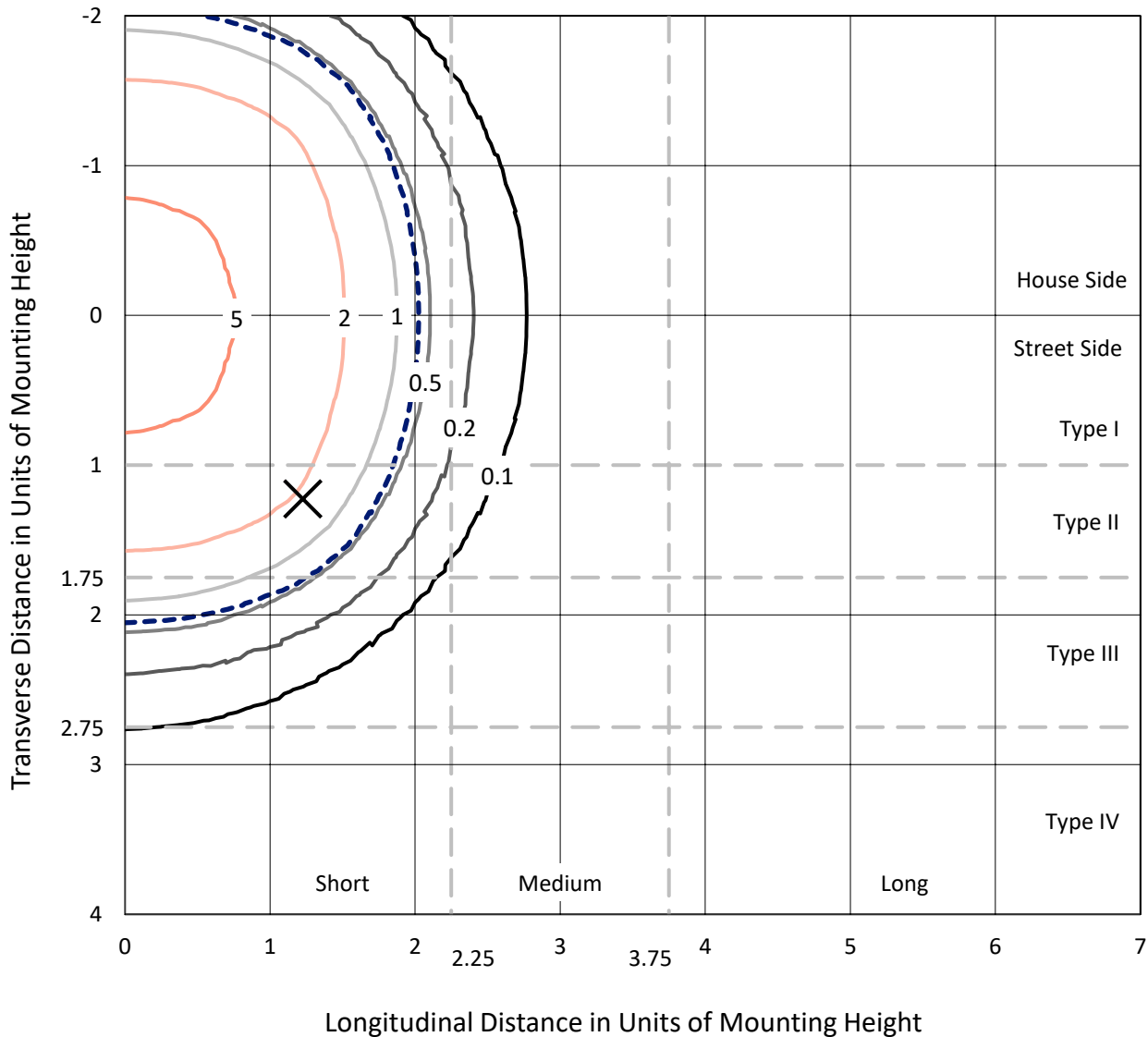
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

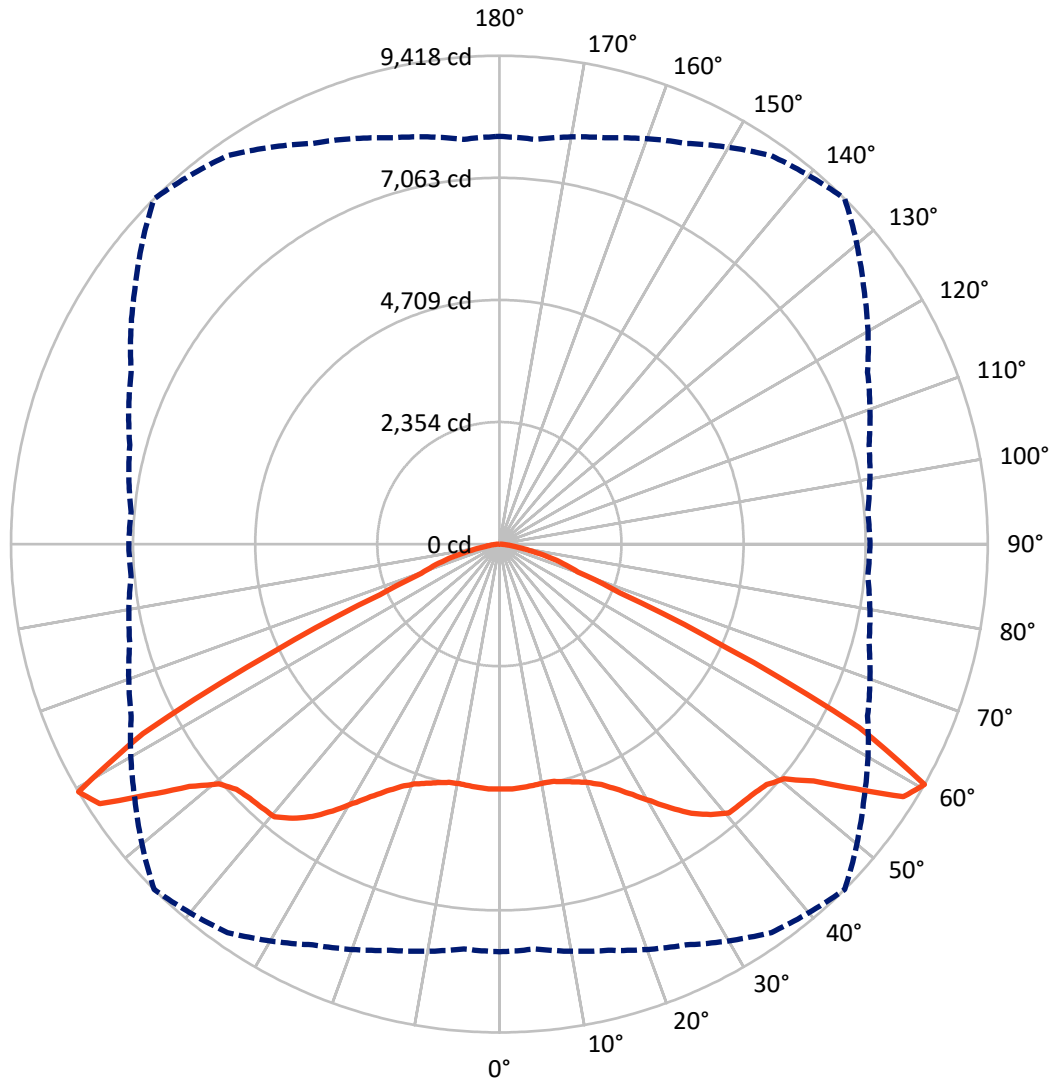
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	12922.7	0.0	12922.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12922.7	0.0	12922.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	25845.3	0.0	25845.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.9	1.7
10°-20°	1347.3	5.2
20°-30°	2383.6	9.2
30°-40°	3837.6	14.8
40°-50°	5274.8	20.4
50°-60°	7029.1	27.2
60°-70°	4380.9	17.0
70°-80°	1007.4	3.9
80°-90°	136.7	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°	25845.3	100.0
0°-180°	25845.3	100.0

Coefficient of Utilization



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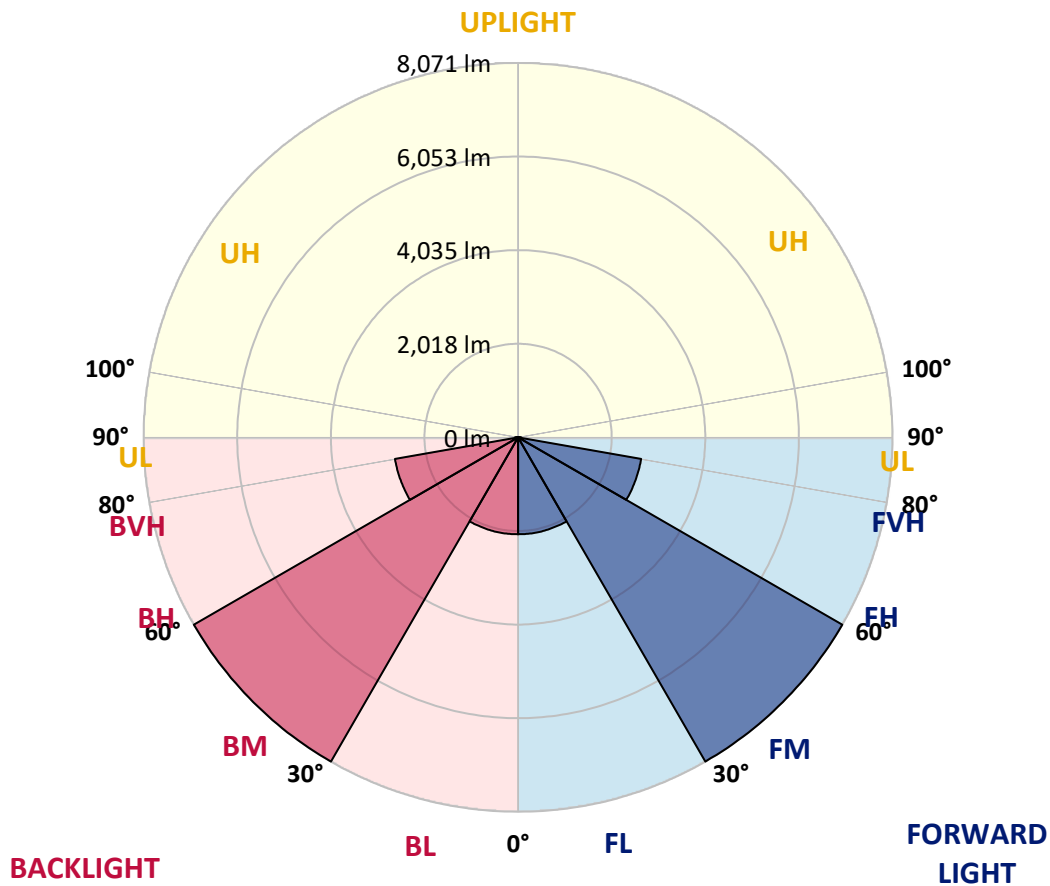
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2089.4	8.1			
FM (30°-60°)	8070.8	31.2			
FH (60°-80°)	2694.1	10.4			G2/5000
FVH (80°-90°)	68.3	0.3			G1/100
BL (0°-30°)	2089.4	8.1	B3/2500		
BM (30°-60°)	8070.8	31.2	B4/8500		
BH (60°-80°)	2694.1	10.4	B4/5000		G2/5000
BVH (80°-90°)	68.3	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°	4723.2	4723.2	4723.2	4723.2	4723.2	4723.2	4723.2	4723.2	4723.2	4723.2	4723.2
2.5°	4690.3	4694.7	4703.4	4710.0	4718.8	4727.6	4732.0	4723.2	4718.8	4701.3	4721.0
5°	4694.7	4699.1	4705.6	4705.6	4707.8	4714.4	4714.4	4703.4	4692.5	4672.7	4694.7
7.5°	4688.1	4692.5	4694.7	4692.5	4694.7	4696.9	4692.5	4679.3	4668.3	4650.8	4668.3
10°	4677.1	4681.5	4685.9	4681.5	4677.1	4683.7	4683.7	4674.9	4668.3	4650.8	4670.5
12.5°	4701.3	4707.8	4710.0	4699.1	4694.7	4696.9	4696.9	4688.1	4688.1	4672.7	4694.7
15°	4758.3	4762.7	4756.1	4742.9	4745.1	4751.7	4736.4	4714.4	4710.0	4703.4	4721.0
17.5°	4802.2	4806.6	4800.0	4791.2	4806.6	4821.9	4793.4	4751.7	4738.5	4734.2	4753.9
20°	4850.4	4857.0	4848.2	4859.2	4889.9	4907.5	4872.4	4815.3	4789.0	4782.4	4806.6
22.5°	4929.4	4938.2	4938.2	4962.3	5008.4	5036.9	4993.0	4916.2	4876.8	4865.8	4889.9
25°	5054.5	5061.0	5067.6	5115.9	5190.5	5230.0	5159.8	5054.5	4999.6	4982.1	4995.2
27.5°	5227.8	5238.7	5249.7	5319.9	5412.0	5469.1	5368.2	5236.5	5168.5	5133.4	5159.8
30°	5434.0	5449.3	5475.7	5554.6	5684.1	5747.7	5618.3	5458.1	5381.3	5344.0	5379.1
32.5°	5714.8	5717.0	5736.7	5824.5	5995.6	6068.0	5905.6	5727.9	5649.0	5605.1	5624.8
35°	6048.2	6050.4	6019.7	6109.7	6293.9	6375.1	6184.2	6004.4	5938.5	5925.4	5975.8
37.5°	6390.5	6370.7	6340.0	6379.5	6566.0	6618.6	6416.8	6263.2	6234.7	6258.8	6333.4
40°	6634.0	6601.1	6539.6	6568.2	6756.8	6818.2	6603.3	6458.5	6449.7	6508.9	6598.9
42.5°	6791.9	6756.8	6684.4	6684.4	6813.9	6840.2	6673.5	6596.7	6616.4	6684.4	6770.0
45°	6868.7	6849.0	6807.3	6785.3	6857.7	6868.7	6741.5	6710.7	6748.0	6780.9	6846.8
47.5°	6927.9	6927.9	6914.8	6892.8	6925.7	6932.3	6838.0	6829.2	6877.5	6877.5	6921.4
50°	7033.2	7044.2	7061.8	7057.4	7092.5	7114.4	7044.2	7031.0	7050.8	6987.2	7009.1
52.5°	7309.6	7338.2	7388.6	7428.1	7518.1	7586.1	7461.0	7355.7	7252.6	7112.2	7116.6
55°	7805.4	7818.6	7917.3	8033.6	8185.0	8323.2	8066.5	7739.6	7515.9	7351.3	7353.5
57.5°	8224.5	8244.2	8389.0	8632.5	8972.5	9187.5	8619.3	8073.1	7757.2	7555.4	7561.9
60°	7862.5	7836.2	8110.4	8527.2	9143.6	9417.9	8579.8	7834.0	7379.8	7129.8	7147.3
62.5°	6083.3	6032.9	6337.8	6774.4	7513.7	7787.9	7015.7	6300.5	5870.5	5675.3	5646.8
65°	3703.1	3657.0	3876.4	4144.0	4644.2	4817.5	4464.3	4084.8	3709.7	3591.2	3558.3
67.5°	2016.1	2009.5	2068.7	2200.4	2419.7	2500.9	2432.9	2253.0	2156.5	2073.1	2073.1
70°	1599.3	1586.1	1575.1	1577.3	1597.1	1608.0	1610.2	1601.5	1612.4	1614.6	1605.8
72.5°	1325.0	1320.7	1298.7	1300.9	1292.1	1287.7	1303.1	1311.9	1329.4	1331.6	1331.6
75°	960.9	949.9	960.9	963.1	954.3	954.3	965.3	963.1	971.8	976.2	952.1
77.5°	546.2	546.2	561.6	579.2	592.3	592.3	603.3	603.3	614.3	612.1	607.7
80°	300.5	300.5	309.3	320.3	333.5	346.6	357.6	359.8	366.4	364.2	357.6
82.5°	171.1	173.3	177.7	184.3	197.4	208.4	219.4	221.6	228.2	228.2	221.6
85°	81.2	79.0	81.2	85.6	92.1	100.9	111.9	118.5	122.9	122.9	118.5
87.5°	15.4	17.6	15.4	17.6	19.7	26.3	30.7	35.1	41.7	43.9	39.5
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)