

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: P638678

Luminaire Tested: GWS-SA4F-735-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638678
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-SA4F-735-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35075 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

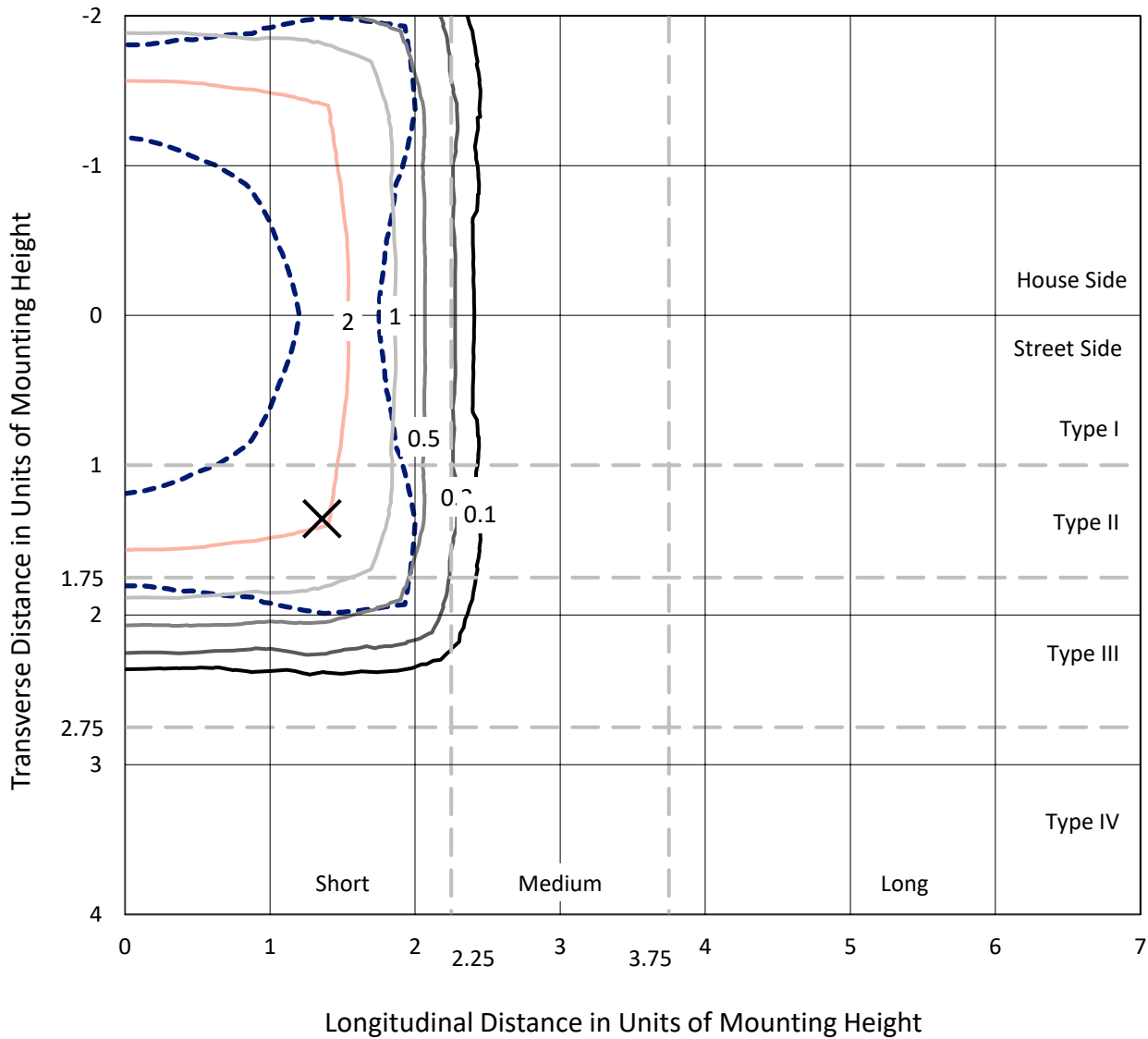
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

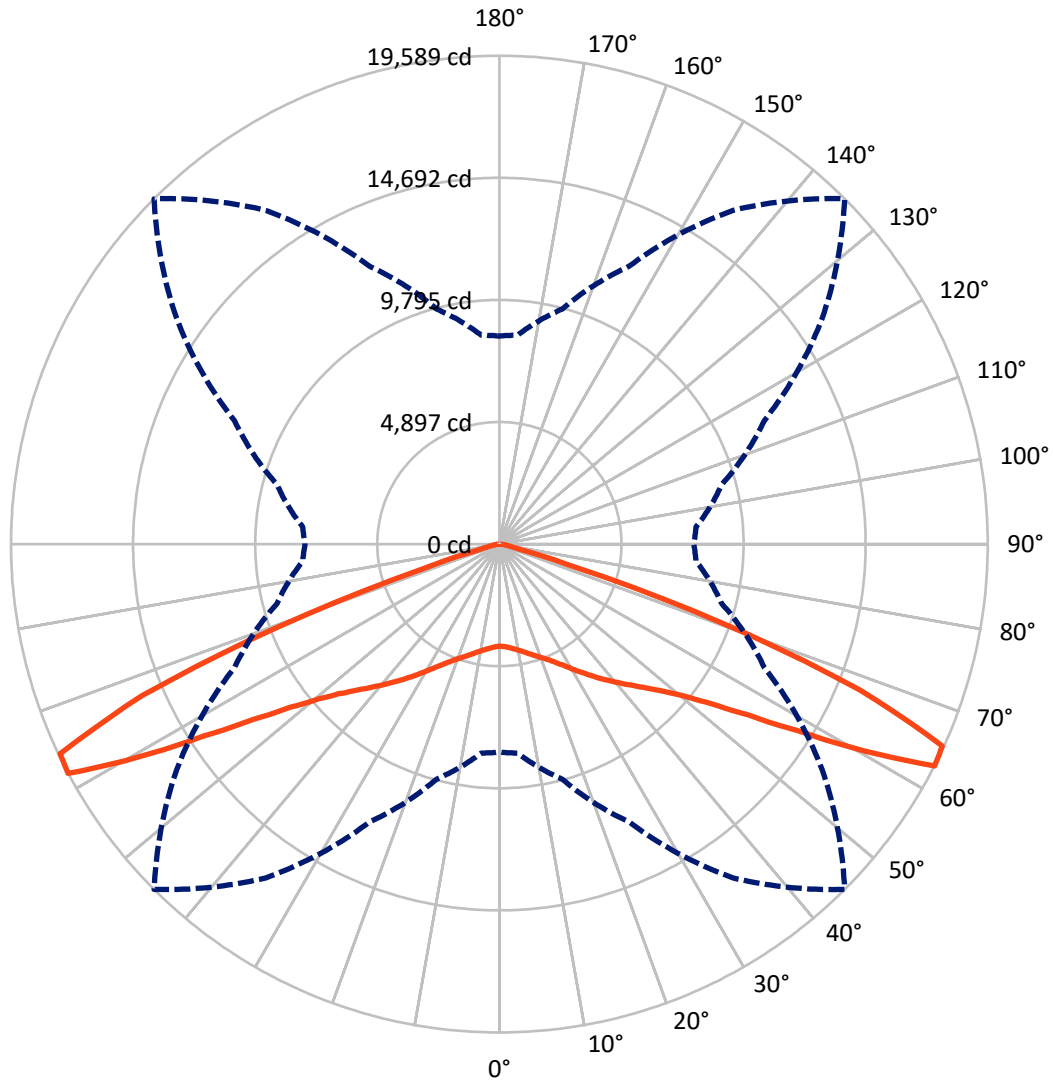
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 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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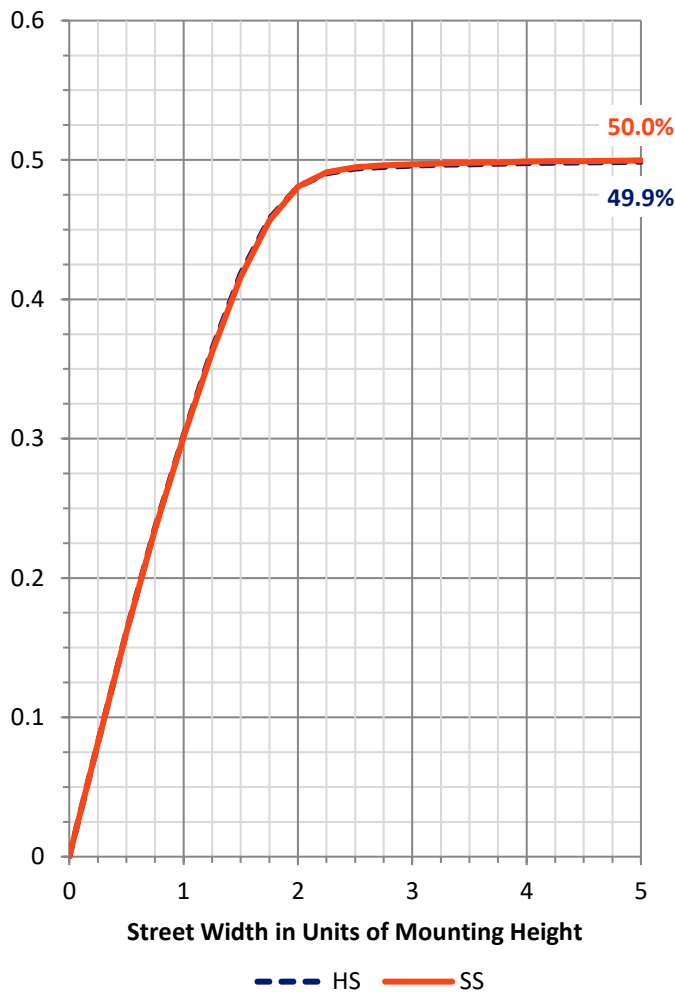
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17537.5	0.0	17537.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17537.5	0.0	17537.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35075.0	0.0	35075.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.5	1.1
10°-20°	1294.7	3.7
20°-30°	2449.4	7.0
30°-40°	4122.7	11.8
40°-50°	6586.9	18.8
50°-60°	10617.7	30.3
60°-70°	8662.9	24.7
70°-80°	841.2	2.4
80°-90°	97.9	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°	35075.0	100.0
0°-180°	35075.0	100.0

Coefficient of Utilization



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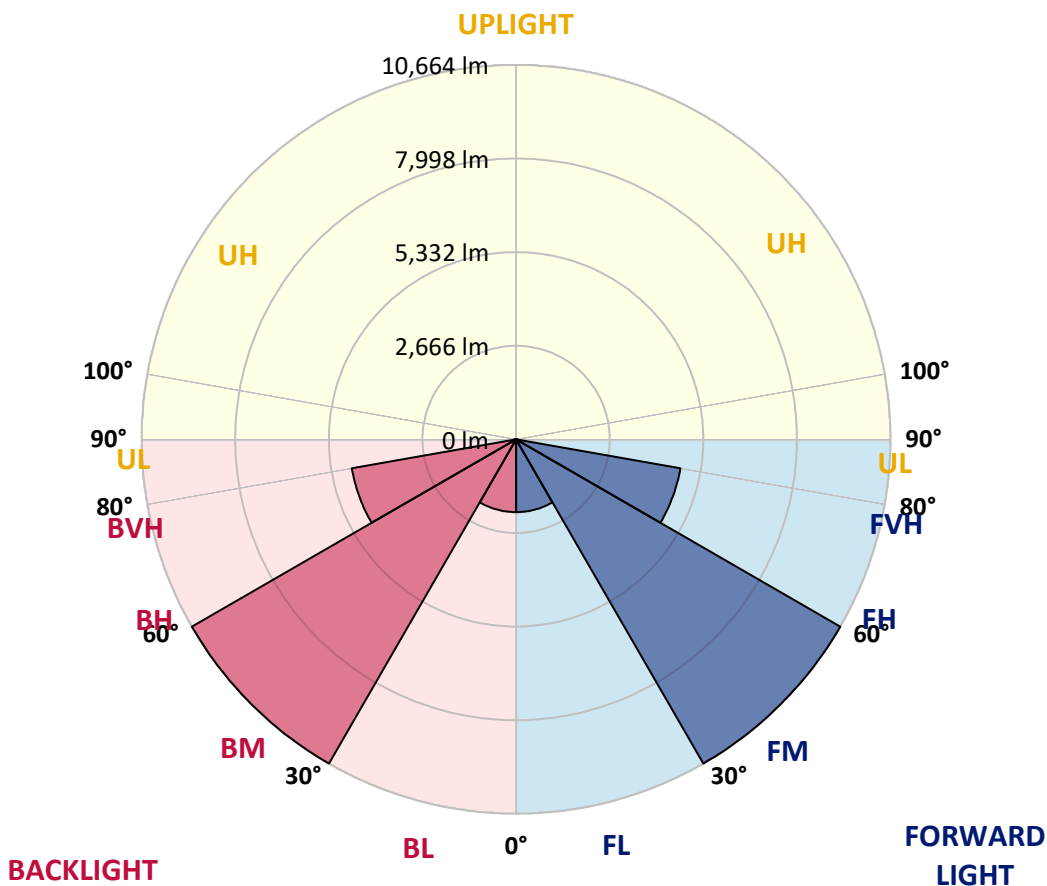
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2072.8	5.9			
FM (30°-60°)	10663.7	30.4			
FH (60°-80°)	4752.1	13.5			G2/5000
FVH (80°-90°)	48.9	0.1			G1/100
BL (0°-30°)	2072.8	5.9	B3/2500		
BM (30°-60°)	10663.7	30.4	B5		
BH (60°-80°)	4752.1	13.5	B4/5000		G2/5000
BVH (80°-90°)	48.9	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°	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
2.5°	4087.2	4087.2	4096.8	4104.0	4099.2	4118.4	4116.0	4111.2	4108.8	4101.6	4123.2
5°	4142.5	4142.5	4149.7	4156.9	4144.9	4169.0	4159.3	4154.5	4152.1	4142.5	4161.7
7.5°	4205.0	4212.3	4214.7	4226.7	4219.5	4245.9	4238.7	4229.1	4224.3	4212.3	4229.1
10°	4274.8	4279.6	4282.0	4303.7	4306.1	4337.3	4330.1	4318.1	4308.5	4296.5	4320.5
12.5°	4368.6	4371.0	4378.2	4404.7	4411.9	4436.0	4433.6	4416.7	4404.7	4387.9	4414.3
15°	4488.9	4491.3	4503.3	4529.8	4541.8	4570.7	4561.1	4534.6	4517.8	4498.5	4520.2
17.5°	4614.0	4623.6	4635.6	4662.1	4678.9	4712.6	4700.6	4671.7	4657.3	4638.0	4652.5
20°	4775.2	4777.6	4784.8	4813.7	4825.7	4864.2	4866.6	4837.7	4830.5	4811.3	4832.9
22.5°	4953.2	4955.6	4962.8	4994.1	5015.7	5039.8	5054.2	5037.4	5025.4	5001.3	5027.8
25°	5150.4	5174.5	5181.7	5220.2	5244.3	5258.7	5275.5	5268.3	5251.5	5222.6	5234.6
27.5°	5427.1	5431.9	5443.9	5487.2	5501.7	5516.1	5532.9	5535.3	5511.3	5477.6	5494.5
30°	5742.2	5739.8	5766.3	5800.0	5812.0	5824.0	5848.1	5862.5	5831.2	5795.2	5812.0
32.5°	6064.6	6093.5	6127.1	6158.4	6151.2	6156.0	6194.5	6221.0	6177.7	6112.7	6127.1
35°	6427.8	6447.1	6490.4	6536.1	6526.5	6519.2	6543.3	6569.8	6509.6	6425.4	6447.1
37.5°	6800.7	6829.6	6894.5	6949.9	6935.4	6901.7	6928.2	6957.1	6899.3	6803.1	6793.5
40°	7216.9	7262.6	7356.4	7402.1	7363.6	7298.7	7344.4	7414.1	7356.4	7245.7	7219.3
42.5°	7705.2	7760.6	7854.4	7924.1	7839.9	7734.1	7811.1	7912.1	7897.7	7750.9	7705.2
45°	8309.0	8345.1	8460.6	8494.3	8369.2	8222.4	8362.0	8515.9	8479.8	8321.1	8260.9
47.5°	8965.8	9021.1	9122.1	9184.7	8982.6	8799.8	8994.6	9201.5	9163.0	9013.9	8944.1
50°	9802.9	9875.1	10007.4	10060.3	9781.3	9572.0	9822.2	10084.4	10009.8	9810.1	9718.7
52.5°	10714.7	10772.4	10998.5	11104.4	10842.2	10616.0	10834.9	11092.3	10933.6	10669.0	10546.3
55°	11518.1	11575.9	11907.9	12259.1	12247.0	12090.7	12201.3	12206.2	11775.5	11337.7	11207.8
57.5°	11691.3	11749.1	12381.8	13300.7	13950.2	14130.7	13805.9	13122.7	12037.8	11270.4	11123.6
60°	10767.6	10832.5	11838.1	13517.2	15653.4	16858.6	15362.3	13103.5	11227.1	10187.8	10048.3
62.5°	8342.7	8412.5	9764.4	12285.5	16341.4	19589.0	15814.6	11725.0	9235.2	7919.3	7796.6
65°	3983.7	3983.7	5701.3	8811.8	14970.2	19524.1	14505.9	8674.7	5559.4	4270.0	4164.1
67.5°	986.3	991.1	1467.4	3430.4	10183.0	15581.2	10349.0	4164.1	1958.2	1385.6	1349.6
70°	615.8	613.4	680.8	928.6	3562.7	9456.5	4231.5	1255.7	796.3	702.4	697.6
72.5°	478.7	478.7	512.4	594.2	933.4	3221.1	1234.1	697.6	577.4	519.6	519.6
75°	377.7	377.7	401.7	445.0	550.9	829.9	656.7	517.2	447.4	409.0	404.1
77.5°	281.5	286.3	305.5	334.4	375.3	466.7	416.2	389.7	348.8	319.9	310.3
80°	182.8	190.0	214.1	230.9	245.4	307.9	271.8	283.9	264.6	230.9	226.1
82.5°	98.6	101.0	129.9	134.7	139.5	168.4	173.2	180.4	187.6	146.7	137.1
85°	36.1	36.1	43.3	50.5	55.3	60.1	81.8	101.0	105.8	84.2	81.8
87.5°	7.2	7.2	7.2	4.8	4.8	4.8	14.4	26.5	43.3	33.7	33.7
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)