

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: P638673

Luminaire Tested: GWS-SA4F-735-U-5MQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-735-U-5MQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM 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: 20503.7 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

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

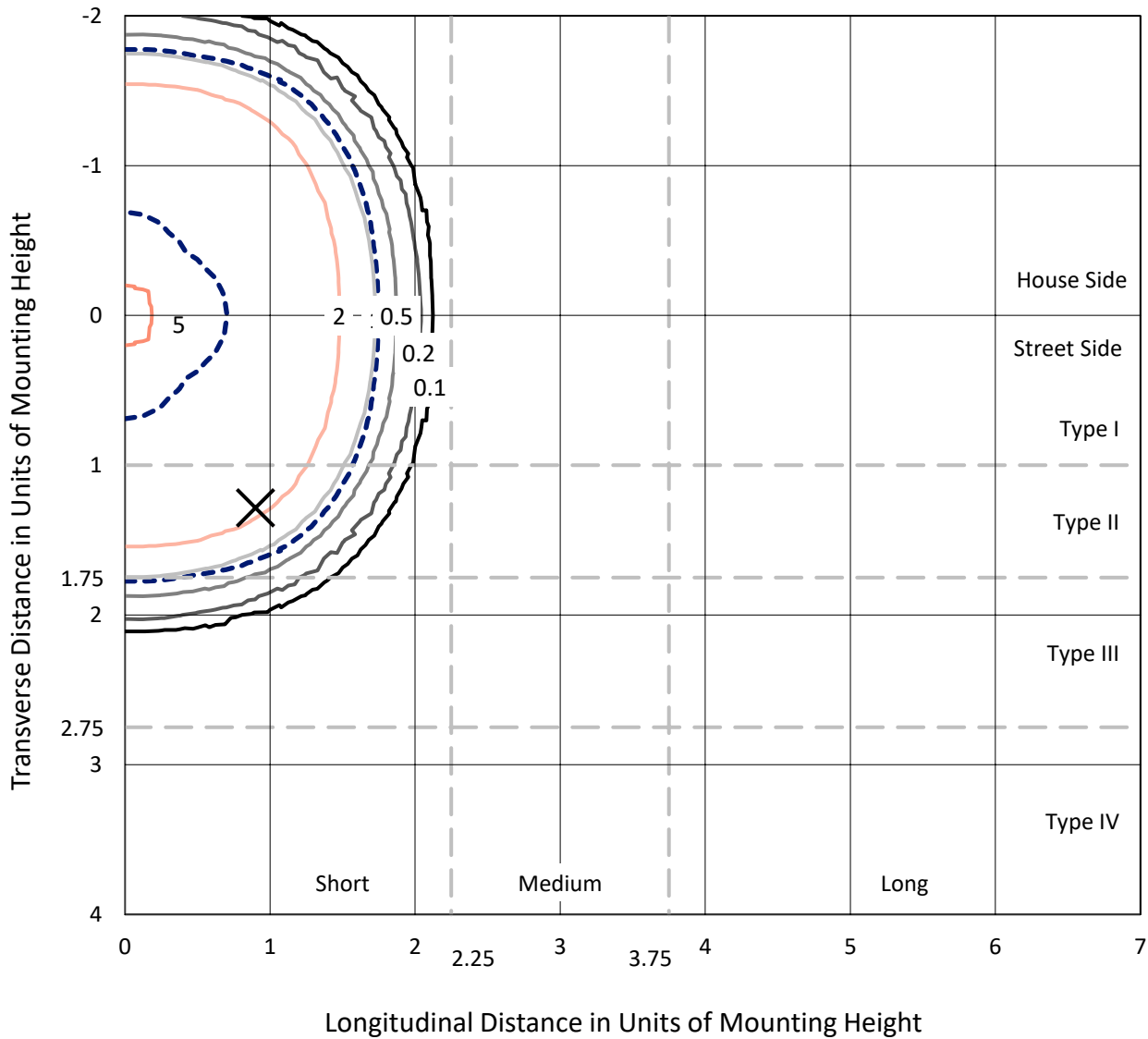


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Iso-Footcandle Lines of Horizontal Illumination

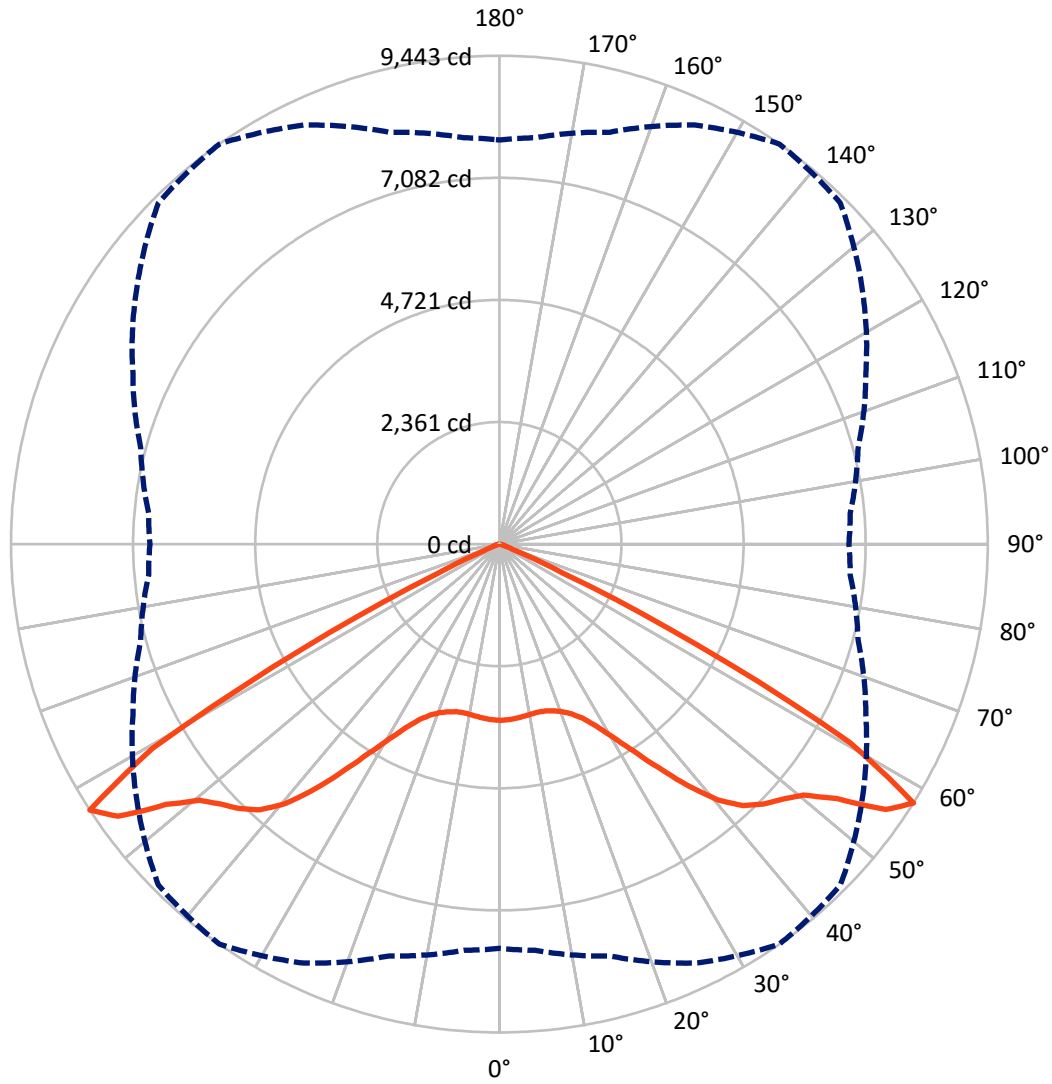
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10251.8	0.0	10251.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10251.8	0.0	10251.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	20503.7	0.0	20503.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.2	1.6
10°-20°	944.8	4.6
20°-30°	1707.7	8.3
30°-40°	3185.9	15.5
40°-50°	5344.3	26.1
50°-60°	7057.7	34.4
60°-70°	1874.4	9.1
70°-80°	66.6	0.3
80°-90°	1.2	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°	20503.7	100.0
0°-180°	20503.7	100.0

Coefficient of Utilization



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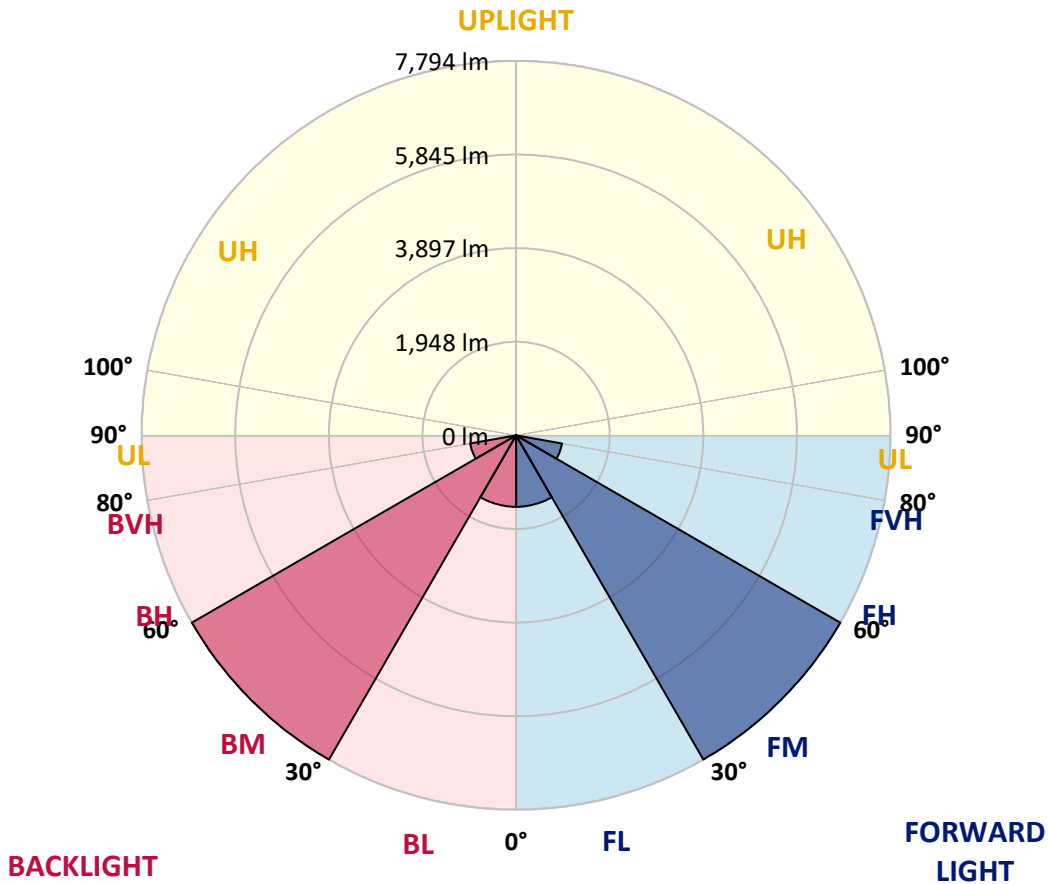
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1486.8	7.3			
FM (30°-60°)	7794.0	38.0			
FH (60°-80°)	970.5	4.7			G1/1800
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1486.8	7.3	B3/2500		
BM (30°-60°)	7794.0	38.0	B4/8500		
BH (60°-80°)	970.5	4.7	B2/1000		G1/1800
BVH (80°-90°)	0.6	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3408.9	3408.9	3408.9	3408.9	3408.9	3408.9	3408.9	3408.9	3408.9	3408.9	3408.9
2.5°	3384.9	3382.5	3392.1	3399.3	3399.3	3416.1	3411.3	3406.5	3401.7	3394.5	3411.3
5°	3380.1	3377.7	3384.9	3389.7	3384.9	3399.3	3389.7	3380.1	3375.2	3365.6	3384.9
7.5°	3358.4	3360.8	3365.6	3370.4	3363.2	3375.2	3363.2	3348.8	3336.8	3327.1	3344.0
10°	3324.7	3327.1	3331.9	3341.6	3344.0	3360.8	3344.0	3317.5	3300.7	3286.2	3303.1
12.5°	3307.9	3310.3	3317.5	3329.5	3331.9	3353.6	3331.9	3293.4	3269.4	3252.6	3269.4
15°	3312.7	3317.5	3327.1	3341.6	3346.4	3368.0	3339.2	3288.6	3255.0	3233.3	3247.7
17.5°	3329.5	3334.3	3348.8	3372.8	3389.7	3411.3	3375.2	3310.3	3264.6	3233.3	3247.7
20°	3351.2	3358.4	3382.5	3421.0	3457.0	3495.5	3449.8	3360.8	3300.7	3262.2	3274.2
22.5°	3411.3	3418.5	3452.2	3502.7	3562.9	3611.0	3555.7	3442.6	3360.8	3310.3	3322.3
25°	3534.0	3541.2	3584.5	3649.5	3726.5	3789.0	3719.3	3577.3	3471.5	3413.7	3418.5
27.5°	3726.5	3733.7	3784.2	3875.6	3979.1	4068.1	3967.1	3801.1	3680.8	3613.4	3613.4
30°	3969.5	3979.1	4046.4	4169.1	4330.3	4448.2	4311.1	4109.0	3955.0	3863.6	3866.0
32.5°	4282.2	4272.6	4368.8	4537.2	4765.8	4922.1	4720.0	4474.7	4284.6	4157.1	4169.1
35°	4684.0	4681.6	4789.8	5018.4	5316.7	5504.3	5263.7	4946.2	4717.6	4587.7	4590.1
37.5°	5201.2	5198.8	5323.9	5571.7	5930.1	6086.5	5817.1	5494.7	5249.3	5124.2	5138.6
40°	5807.4	5793.0	5903.7	6141.8	6500.3	6601.3	6307.8	6048.0	5812.3	5732.9	5771.4
42.5°	6384.8	6353.5	6418.5	6635.0	6911.7	6926.1	6704.8	6526.8	6365.6	6303.0	6327.1
45°	6849.1	6825.1	6885.2	7010.3	7169.1	7096.9	6991.1	6935.7	6805.8	6738.5	6760.1
47.5°	7195.5	7195.5	7267.7	7344.7	7368.8	7236.4	7253.3	7253.3	7123.4	7017.5	6991.1
50°	7493.9	7515.5	7623.8	7703.2	7623.8	7455.4	7551.6	7532.4	7267.7	7056.0	7000.7
52.5°	7970.2	7991.8	8157.8	8266.1	8177.1	8011.1	8023.1	7782.5	7392.8	7142.6	7056.0
55°	8475.4	8528.3	8768.9	9057.6	9060.0	8889.2	8571.6	8145.8	7671.9	7400.0	7311.0
57.5°	7813.8	7886.0	8244.4	8939.7	9442.5	9324.6	8566.8	7818.6	7178.7	6808.2	6757.7
60°	5376.8	5501.9	5860.4	6810.6	7780.1	7825.9	6930.9	6091.3	5357.6	4900.5	4910.1
62.5°	2271.0	2398.5	2600.6	3382.5	4272.6	4327.9	3894.9	3293.4	2694.4	2364.8	2415.4
65°	534.1	570.2	630.3	935.8	1356.8	1419.4	1308.7	1020.0	753.0	637.5	649.5
67.5°	233.4	238.2	226.1	240.6	298.3	305.5	295.9	259.8	245.4	250.2	250.2
70°	163.6	166.0	156.4	149.2	141.9	132.3	137.1	151.6	163.6	173.2	170.8
72.5°	101.0	103.4	105.9	105.9	98.6	89.0	93.8	103.4	105.9	108.3	105.9
75°	50.5	52.9	57.7	60.1	57.7	55.3	55.3	57.7	57.7	55.3	55.3
77.5°	9.6	12.0	16.8	19.2	19.2	19.2	19.2	19.2	21.7	19.2	19.2
80°	2.4	2.4	4.8	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8
82.5°	2.4	2.4	2.4	2.4	0.0	0.0	2.4	2.4	2.4	2.4	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4
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)