

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: P638180

Luminaire Tested: GWS-SA4E-735-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31257.5 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

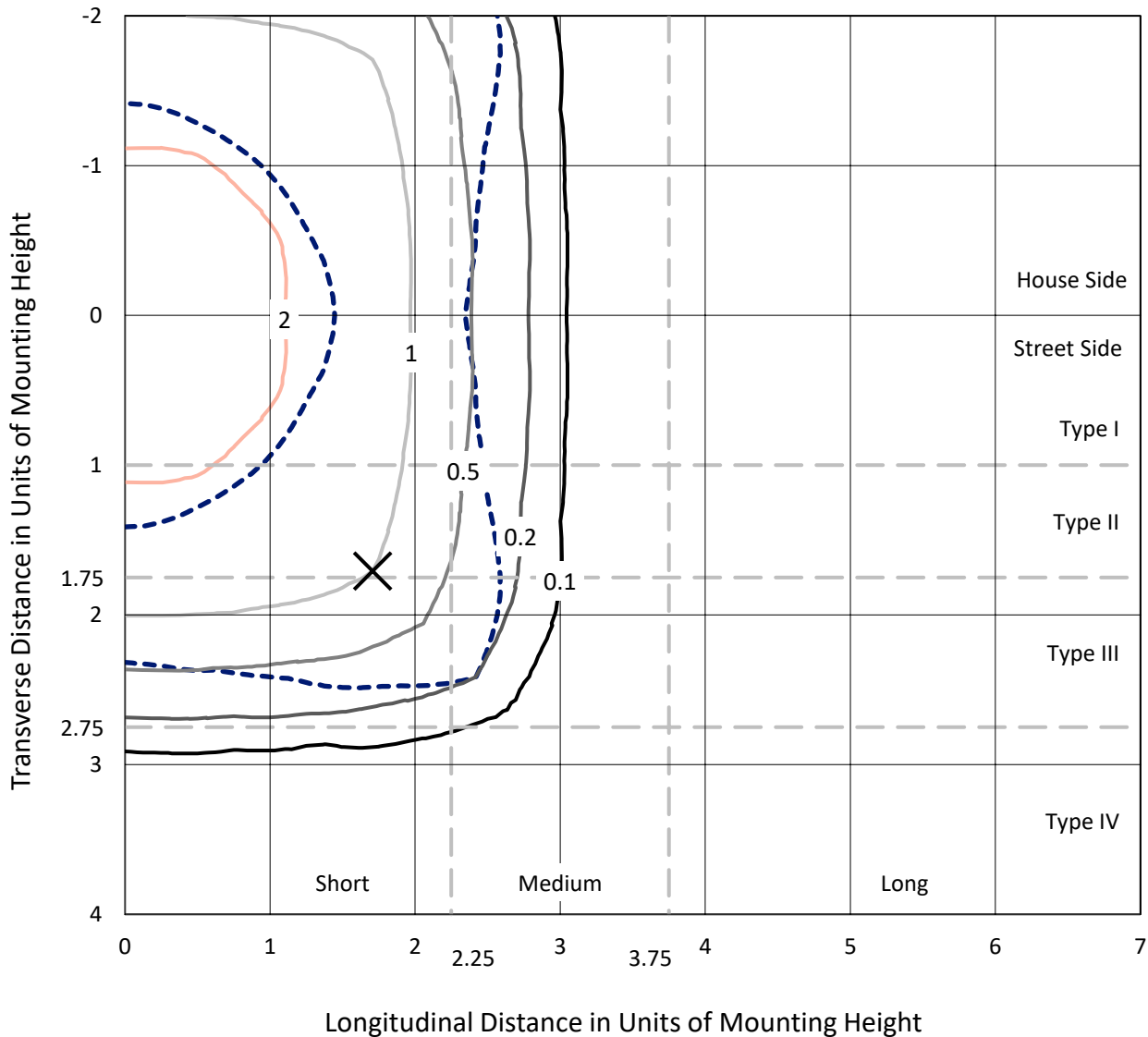
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

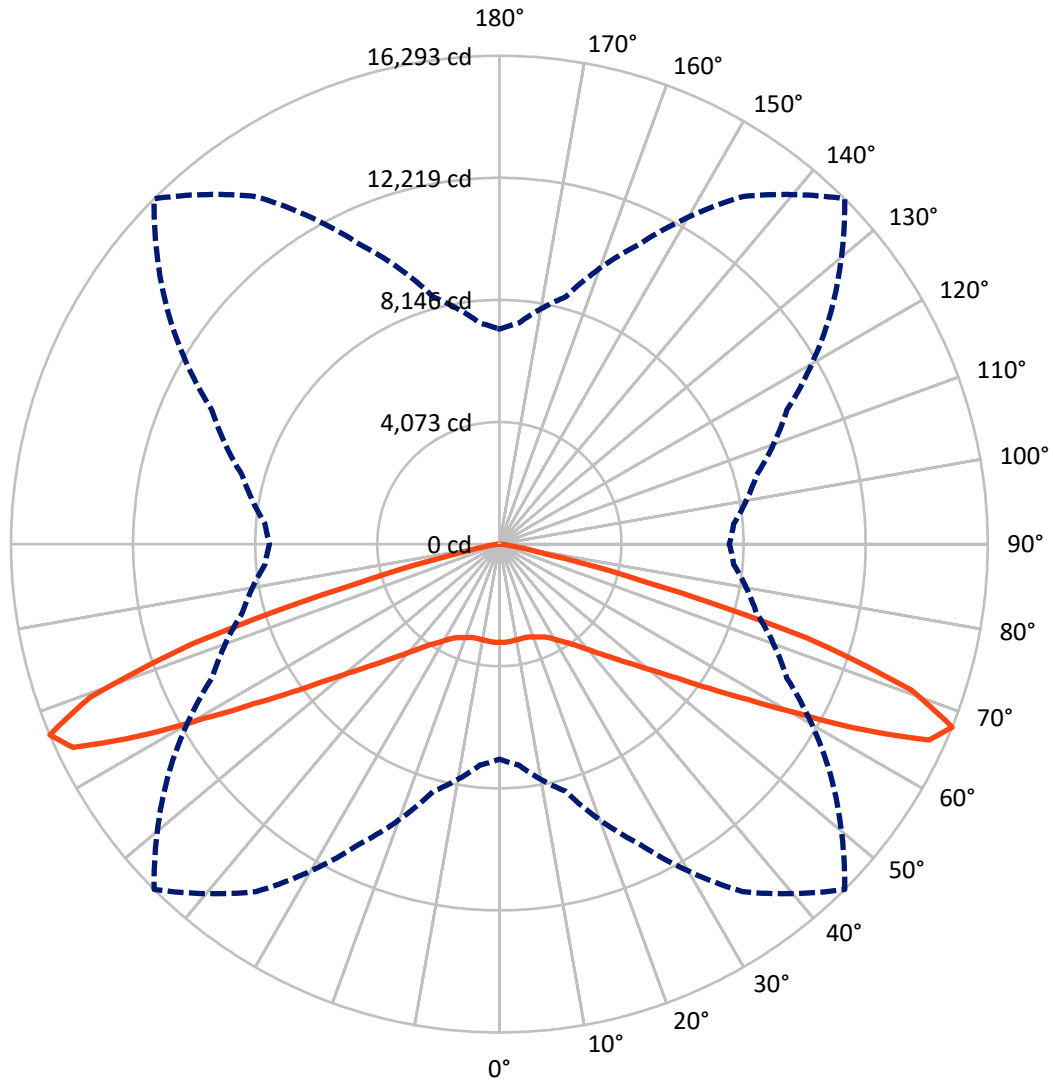
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15628.8	0.0	15628.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15628.8	0.0	15628.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	31257.5	0.0	31257.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.8	1.0
10°-20°	910.0	2.9
20°-30°	1569.5	5.0
30°-40°	2552.1	8.2
40°-50°	4297.3	13.7
50°-60°	7614.0	24.4
60°-70°	10883.7	34.8
70°-80°	2987.1	9.6
80°-90°	133.8	0.4
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°	31257.5	100.0
0°-180°	31257.5	100.0

Coefficient of Utilization



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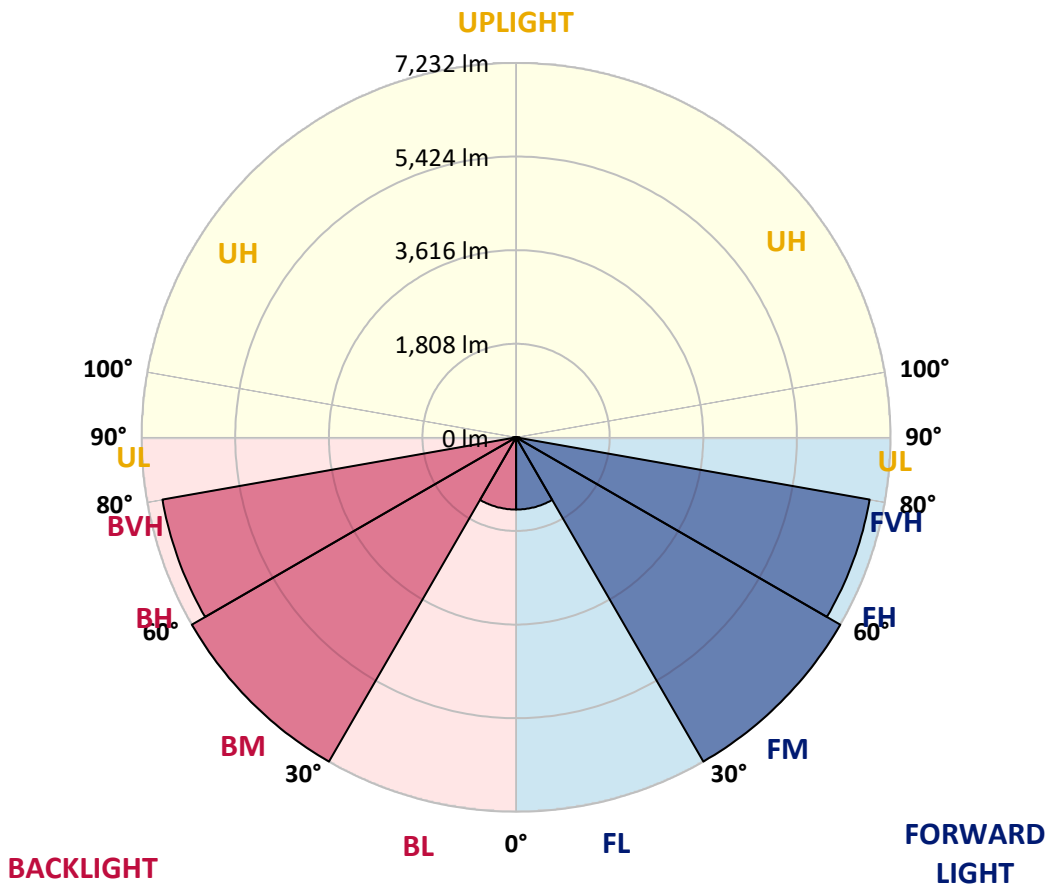
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1394.7	4.5			
FM (30°-60°)	7231.7	23.1			
FH (60°-80°)	6935.4	22.2			G3/7500
FVH (80°-90°)	66.9	0.2			G1/100
BL (0°-30°)	1394.7	4.5	B3/2500		
BM (30°-60°)	7231.7	23.1	B4/8500		
BH (60°-80°)	6935.4	22.2	B5		G3/7500
BVH (80°-90°)	66.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3273.7	3273.7	3273.7	3273.7	3273.7	3273.7	3273.7	3273.7	3273.7	3273.7	3273.7
2.5°	3252.0	3249.9	3260.7	3267.2	3265.0	3280.2	3278.0	3273.7	3273.7	3267.2	3284.5
5°	3252.0	3249.9	3258.5	3260.7	3256.4	3269.3	3265.0	3260.7	3260.7	3252.0	3267.2
7.5°	3234.7	3236.9	3243.4	3247.7	3243.4	3254.2	3247.7	3239.1	3236.9	3228.2	3243.4
10°	3202.3	3204.4	3210.9	3221.7	3223.9	3243.4	3232.6	3217.4	3210.9	3202.3	3217.4
12.5°	3182.8	3185.0	3191.5	3204.4	3208.8	3234.7	3223.9	3200.1	3189.3	3180.6	3195.8
15°	3178.5	3180.6	3189.3	3202.3	3208.8	3234.7	3223.9	3195.8	3180.6	3169.8	3182.8
17.5°	3178.5	3182.8	3195.8	3215.3	3228.2	3254.2	3241.2	3208.8	3187.1	3167.7	3180.6
20°	3180.6	3187.1	3206.6	3234.7	3267.2	3304.0	3286.7	3243.4	3213.1	3189.3	3197.9
22.5°	3200.1	3210.9	3234.7	3271.5	3319.1	3362.4	3347.2	3288.8	3245.5	3213.1	3221.7
25°	3267.2	3271.5	3301.8	3349.4	3394.8	3431.6	3416.5	3362.4	3308.3	3269.3	3280.2
27.5°	3386.2	3397.0	3423.0	3472.7	3511.7	3531.2	3529.0	3492.2	3438.1	3403.5	3412.1
30°	3529.0	3539.8	3574.4	3630.7	3669.6	3691.3	3684.8	3656.6	3606.9	3559.3	3567.9
32.5°	3695.6	3699.9	3741.0	3803.8	3844.9	3877.3	3855.7	3825.4	3762.7	3706.4	3710.7
35°	3907.6	3914.1	3957.4	4015.8	4048.3	4074.2	4069.9	4039.6	3972.5	3912.0	3927.1
37.5°	4173.8	4178.1	4217.0	4290.6	4316.6	4336.0	4340.4	4325.2	4256.0	4178.1	4193.2
40°	4504.8	4507.0	4550.3	4615.2	4643.3	4656.3	4658.4	4660.6	4589.2	4530.8	4526.5
42.5°	4890.0	4900.8	4961.4	5024.1	5037.1	5030.6	5052.2	5073.9	5004.6	4924.6	4931.1
45°	5350.8	5357.3	5439.5	5508.8	5485.0	5463.3	5504.4	5547.7	5485.0	5381.1	5350.8
47.5°	5896.1	5909.1	5997.8	6067.0	6028.1	5989.1	6056.2	6101.6	5999.9	5889.6	5861.5
50°	6512.7	6521.4	6646.9	6733.4	6688.0	6616.6	6701.0	6748.6	6612.3	6475.9	6415.4
52.5°	7241.9	7224.6	7391.2	7542.6	7514.5	7421.5	7490.7	7499.4	7296.0	7103.4	7042.8
55°	8131.2	8113.9	8280.5	8447.1	8516.3	8492.5	8460.1	8408.1	8107.4	7901.8	7845.6
57.5°	9167.6	9113.5	9347.2	9572.2	9723.7	9766.9	9628.4	9507.3	9269.3	9016.1	8951.2
60°	10130.4	10128.3	10498.3	10887.7	11303.1	11476.2	11125.7	10796.8	10262.4	9801.5	9708.5
62.5°	10400.9	10446.3	11052.2	12017.2	13042.8	13655.1	12731.2	11642.8	10610.8	9916.2	9792.9
65°	9734.5	9847.0	10708.1	12231.4	14256.6	15753.9	13668.1	11662.3	10223.5	9358.0	9228.2
67.5°	7174.8	7399.8	8540.1	11037.0	14152.7	16292.6	13501.5	10582.6	8879.8	7849.9	7670.3
70°	3539.8	3754.0	4658.4	7261.4	11645.0	14563.8	11681.8	7975.4	5997.8	5006.8	4842.4
72.5°	1302.5	1389.1	1743.9	3107.1	6426.2	10757.9	7988.4	4455.1	2905.8	2313.0	2202.6
75°	638.3	653.4	707.5	1042.9	2371.4	5063.0	3754.0	1709.3	1068.9	930.4	900.1
77.5°	406.8	413.3	439.2	497.7	761.6	1594.6	1138.1	675.1	523.6	502.0	502.0
80°	227.2	233.7	268.3	309.4	357.0	547.4	408.9	404.6	344.0	300.8	294.3
82.5°	108.2	119.0	170.9	168.8	188.2	274.8	240.2	218.5	220.7	166.6	157.9
85°	49.8	49.8	67.1	80.1	84.4	93.0	110.3	125.5	123.3	84.4	90.9
87.5°	23.8	23.8	23.8	21.6	19.5	17.3	23.8	38.9	56.3	38.9	36.8
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)