

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: P638184

Luminaire Tested: GWS-SA4E-735-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-5WQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE 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: 15884.1 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

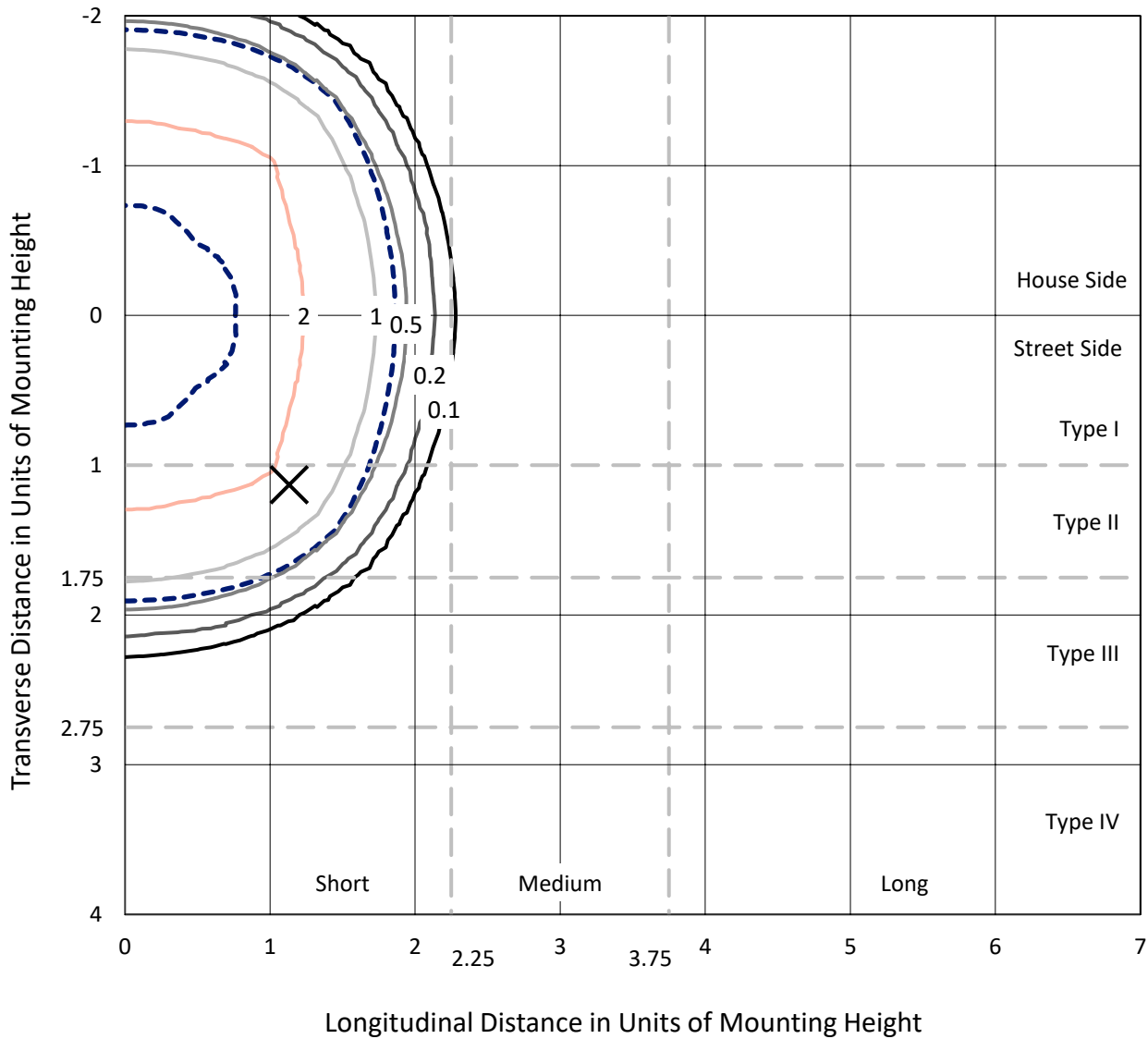
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

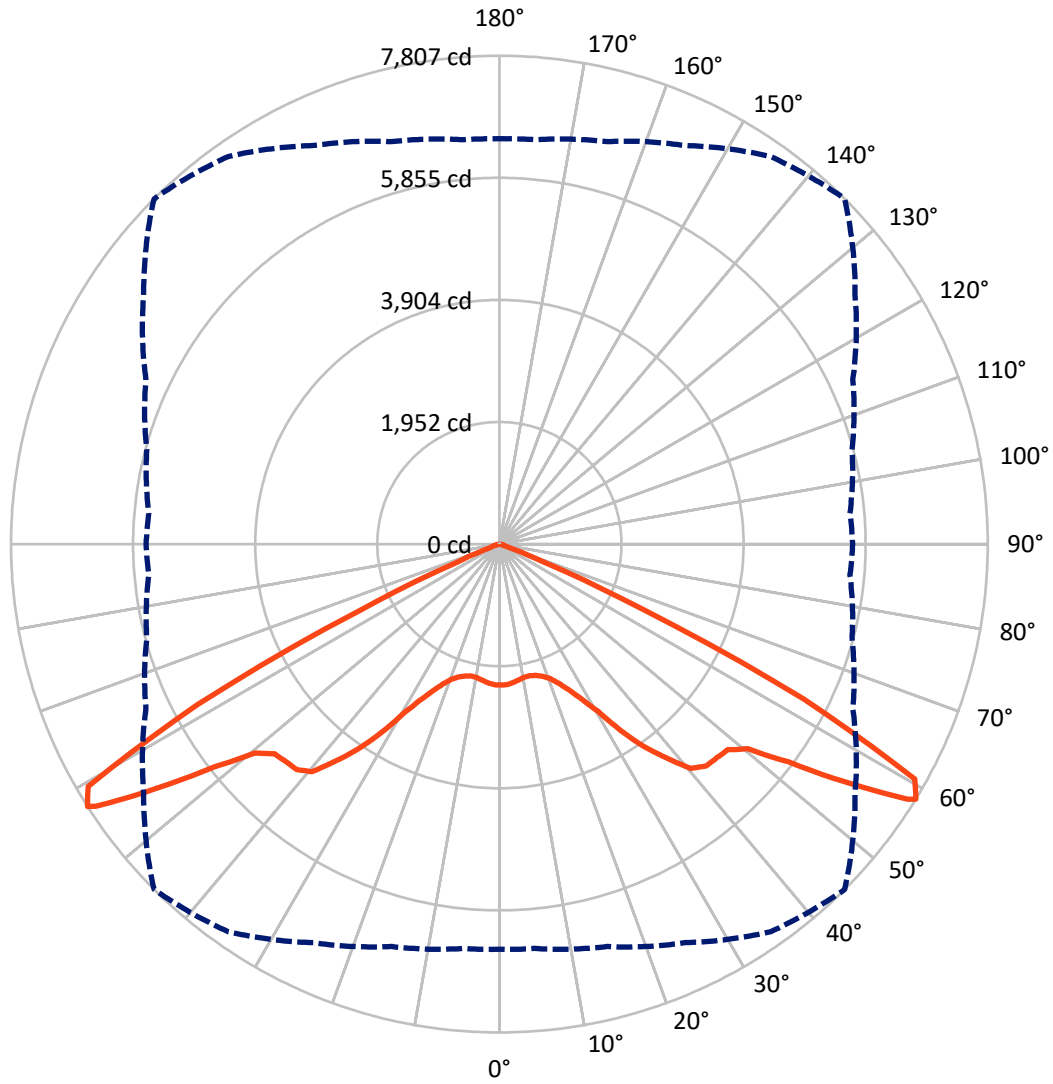
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7942.1	0.0	7942.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7942.1	0.0	7942.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	15884.1	0.0	15884.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.2	1.3
10°-20°	621.9	3.9
20°-30°	1176.1	7.4
30°-40°	2319.6	14.6
40°-50°	3670.7	23.1
50°-60°	5395.8	34.0
60°-70°	2408.5	15.2
70°-80°	80.7	0.5
80°-90°	0.7	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°	15884.1	100.0
0°-180°	15884.1	100.0

Coefficient of Utilization



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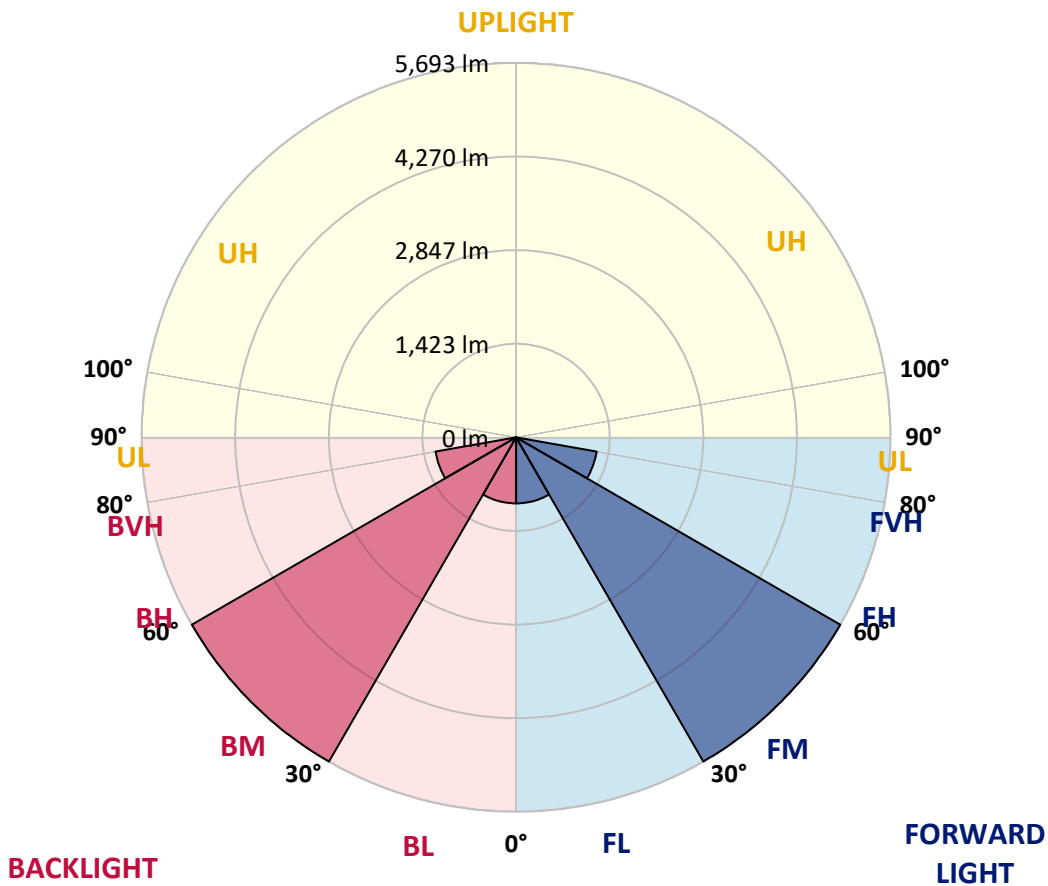
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1004.1	6.3			
FM (30°-60°)	5693.1	35.8			
FH (60°-80°)	1244.6	7.8			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	1004.1	6.3	B3/2500		
BM (30°-60°)	5693.1	35.8	B4/8500		
BH (60°-80°)	1244.6	7.8	B3/2500		G1/1800
BVH (80°-90°)	0.3	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°	2252.6	2252.6	2252.6	2252.6	2252.6	2252.6	2252.6	2252.6	2252.6	2252.6	2252.6
2.5°	2230.9	2235.3	2239.6	2241.8	2243.9	2250.4	2252.6	2246.1	2246.1	2233.1	2248.2
5°	2220.1	2224.4	2228.8	2226.6	2226.6	2226.6	2224.4	2215.8	2213.6	2200.6	2215.8
7.5°	2200.6	2205.0	2205.0	2198.5	2194.2	2194.2	2192.0	2181.2	2179.0	2166.0	2181.2
10°	2185.5	2187.7	2185.5	2172.5	2163.9	2163.9	2161.7	2157.4	2159.5	2150.9	2163.9
12.5°	2194.2	2196.3	2187.7	2170.4	2159.5	2157.4	2150.9	2144.4	2150.9	2148.7	2161.7
15°	2222.3	2224.4	2209.3	2187.7	2179.0	2179.0	2161.7	2144.4	2153.0	2155.2	2170.4
17.5°	2256.9	2256.9	2237.4	2218.0	2220.1	2220.1	2192.0	2161.7	2163.9	2172.5	2187.7
20°	2298.0	2298.0	2278.5	2274.2	2289.4	2291.5	2256.9	2209.3	2198.5	2205.0	2222.3
22.5°	2371.6	2371.6	2356.4	2367.3	2401.9	2412.7	2360.8	2293.7	2267.7	2272.1	2289.4
25°	2486.3	2486.3	2481.9	2507.9	2557.7	2581.5	2512.2	2423.5	2380.2	2373.8	2393.2
27.5°	2678.9	2681.0	2674.5	2713.5	2776.2	2804.4	2709.2	2592.3	2540.4	2529.6	2549.0
30°	2927.7	2927.7	2929.9	2984.0	3066.2	3103.0	2977.5	2841.1	2780.6	2745.9	2771.9
32.5°	3204.7	3209.0	3230.6	3321.5	3466.5	3542.2	3358.3	3167.9	3070.5	3033.7	3061.9
35°	3661.2	3620.1	3594.2	3661.2	3871.1	3970.7	3734.8	3511.9	3438.4	3434.0	3505.5
37.5°	4113.5	4089.7	4035.6	4104.8	4293.1	4338.5	4078.9	3892.8	3840.8	3869.0	3940.4
40°	4472.7	4429.4	4358.0	4422.9	4669.6	4715.0	4394.8	4210.9	4191.4	4254.1	4351.5
42.5°	4756.2	4695.6	4600.4	4615.5	4814.6	4847.0	4563.6	4425.1	4438.1	4516.0	4626.3
45°	4883.8	4836.2	4751.8	4745.3	4870.8	4873.0	4650.1	4578.7	4613.3	4673.9	4760.5
47.5°	4937.9	4916.3	4868.7	4857.9	4929.3	4912.0	4773.5	4743.2	4775.6	4792.9	4842.7
50°	5072.1	5072.1	5078.6	5087.2	5160.8	5143.5	5046.1	5011.5	4970.4	4909.8	4924.9
52.5°	5448.6	5463.7	5526.5	5595.7	5729.9	5786.2	5628.2	5427.0	5230.0	5098.1	5098.1
55°	6128.0	6143.2	6216.8	6333.6	6580.3	6714.5	6346.6	5903.0	5632.5	5452.9	5476.7
57.5°	6502.4	6519.7	6671.2	6987.1	7465.3	7692.5	6902.7	6244.9	5866.2	5660.7	5678.0
58°	6478.6	6489.4	6660.4	7030.4	7562.7	7807.2	6941.7	6234.1	5835.9	5626.0	5647.7
60°	5755.9	5740.7	6013.4	6541.3	7292.2	7629.8	6554.3	5690.9	5227.9	5013.7	5024.5
62.5°	3763.0	3771.6	4007.5	4559.3	5143.5	5461.6	4578.7	3936.1	3563.9	3434.0	3401.6
65°	1571.0	1542.8	1687.8	1995.1	2345.6	2523.1	2168.2	1835.0	1605.6	1519.0	1542.8
67.5°	404.6	393.8	402.5	504.2	616.7	729.2	612.4	467.4	406.8	411.1	411.1
70°	229.4	216.4	175.3	162.3	158.0	158.0	158.0	158.0	181.8	214.2	220.7
72.5°	173.1	162.3	127.7	110.4	97.4	90.9	95.2	110.4	132.0	160.1	164.5
75°	86.6	86.6	77.9	73.6	64.9	60.6	62.8	69.2	80.1	90.9	88.7
77.5°	17.3	19.5	21.6	26.0	21.6	21.6	21.6	26.0	26.0	28.1	26.0
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
82.5°	0.0	2.2	2.2	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)