

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: P638235

Luminaire Tested: GWS-SA4E-740-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638235
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-740-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31691.8 lumens
Efficiency: N/A
Efficacy: 156.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

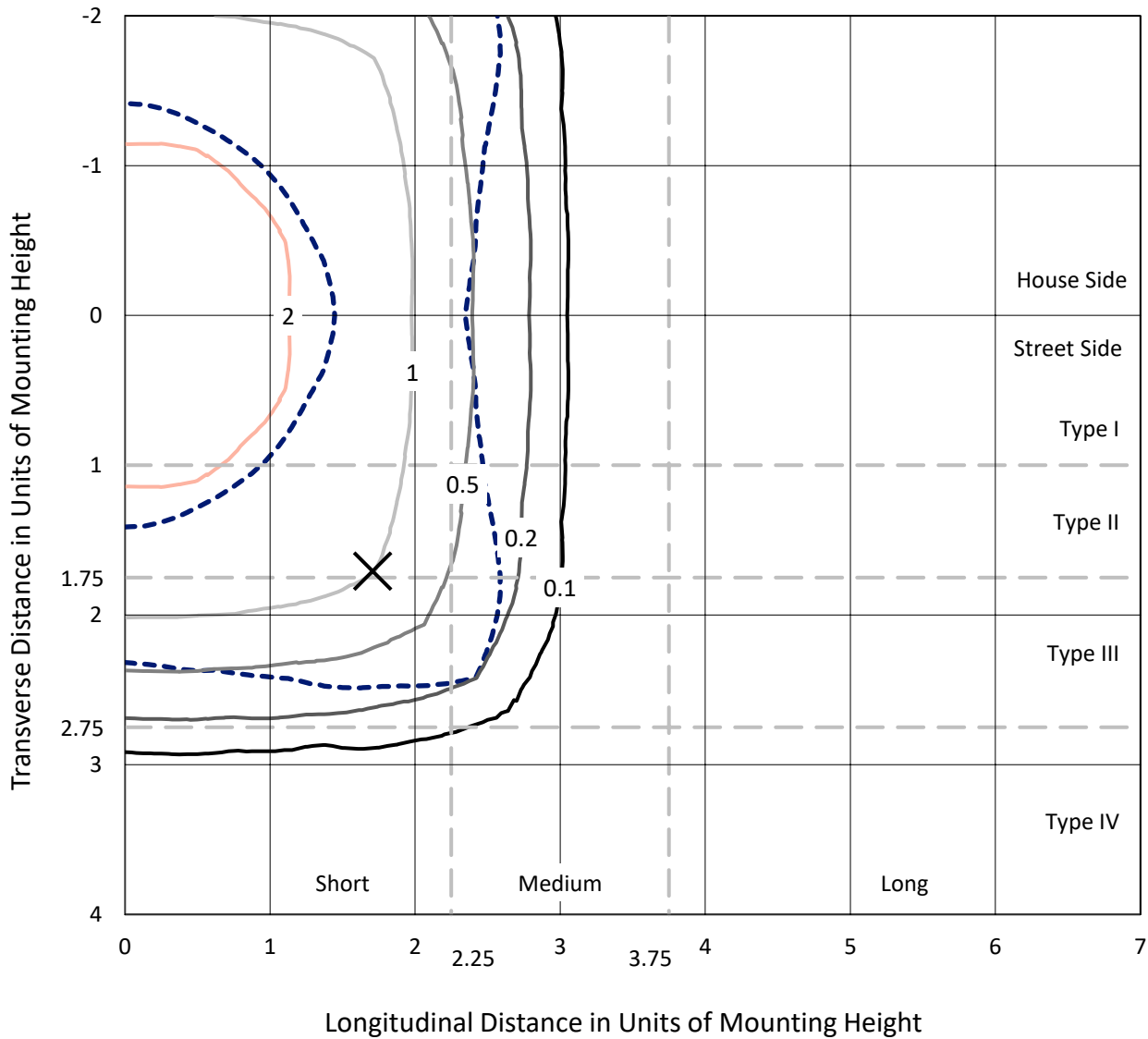
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

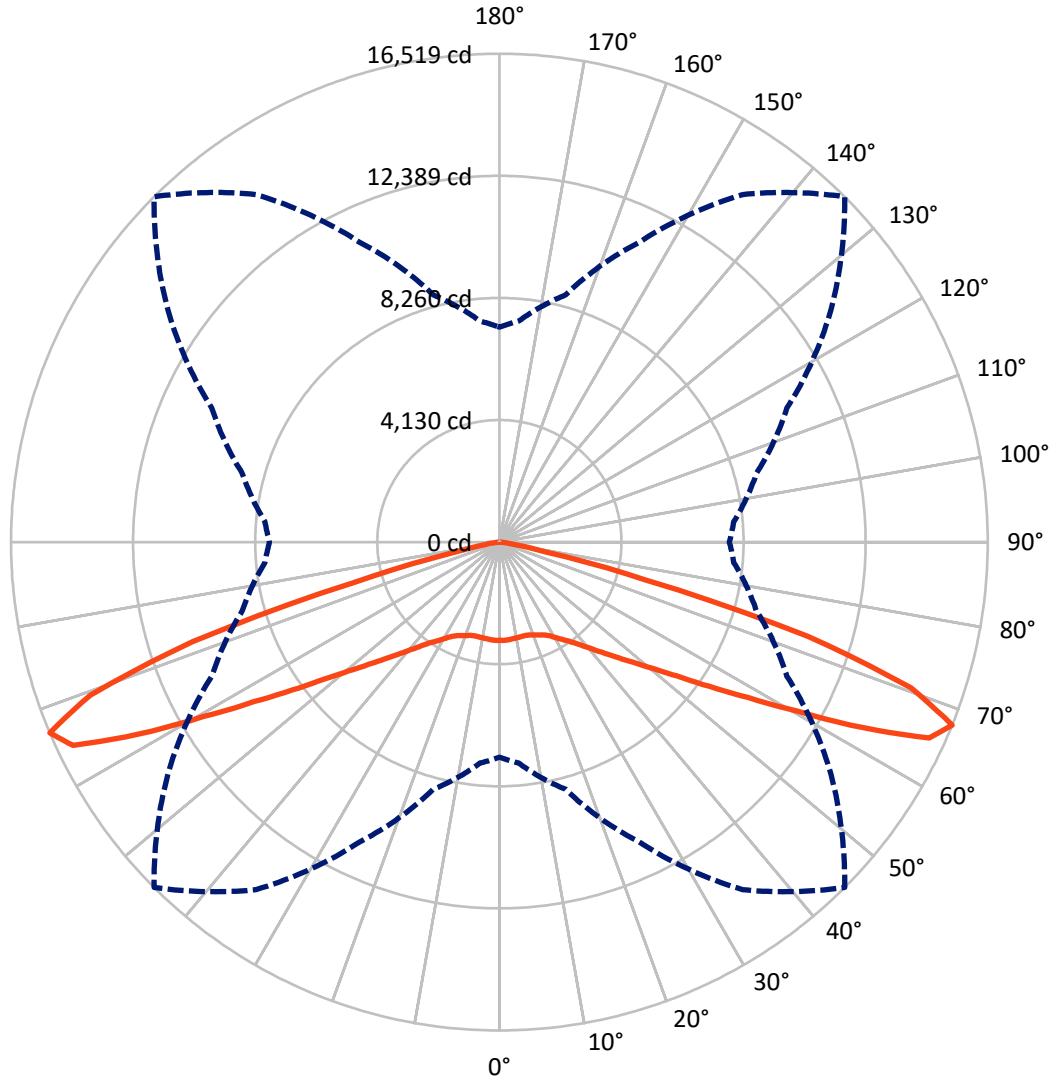
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.7 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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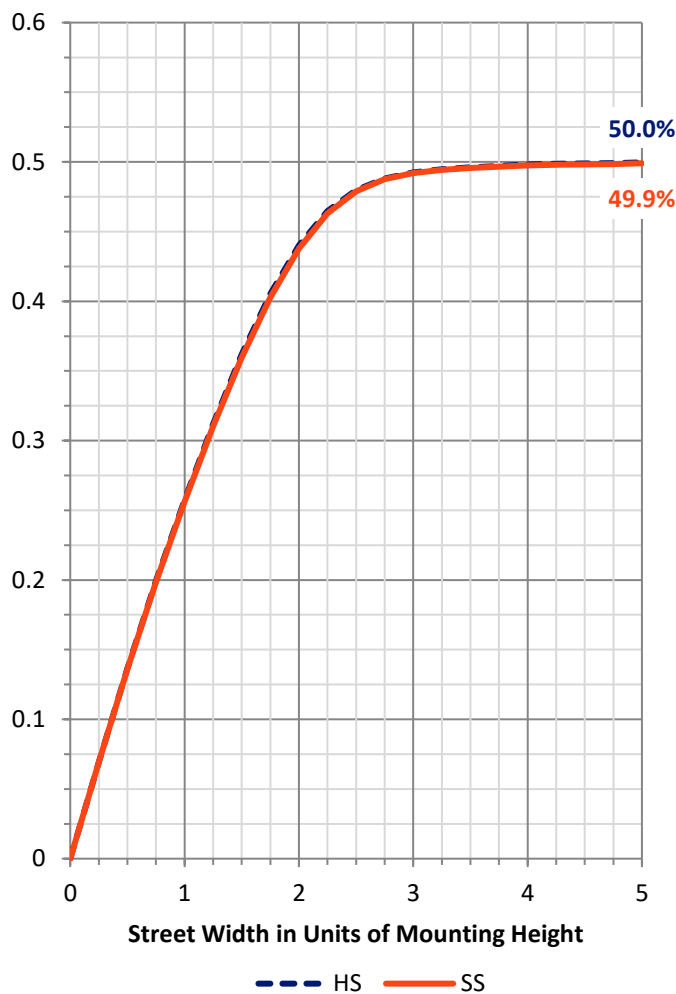
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15845.9	0.0	15845.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15845.9	0.0	15845.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	31691.8	0.0	31691.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.1	1.0
10°-20°	922.7	2.9
20°-30°	1591.4	5.0
30°-40°	2587.6	8.2
40°-50°	4357.0	13.7
50°-60°	7719.8	24.4
60°-70°	11034.9	34.8
70°-80°	3028.6	9.6
80°-90°	135.7	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°	31691.8	100.0
0°-180°	31691.8	100.0

Coefficient of Utilization



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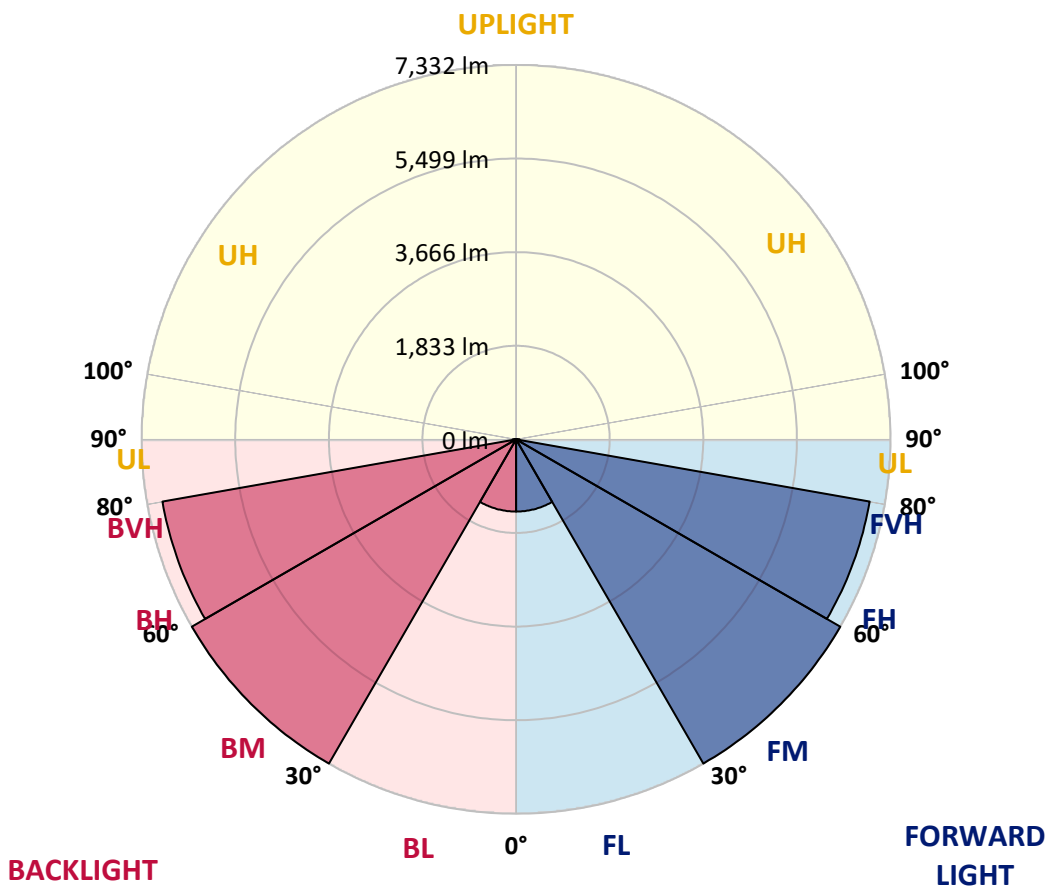
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1414.1	4.5			
FM (30°-60°)	7332.2	23.1			
FH (60°-80°)	7031.8	22.2			G3/7500
FVH (80°-90°)	67.8	0.2			G1/100
BL (0°-30°)	1414.1	4.5	B3/2500		
BM (30°-60°)	7332.2	23.1	B4/8500		
BH (60°-80°)	7031.8	22.2	B5		G3/7500
BVH (80°-90°)	67.8	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°	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2
2.5°	3297.2	3295.0	3306.0	3312.6	3310.4	3325.7	3323.5	3319.2	3319.2	3312.6	3330.1
5°	3297.2	3295.0	3303.8	3306.0	3301.6	3314.8	3310.4	3306.0	3306.0	3297.2	3312.6
7.5°	3279.7	3281.9	3288.4	3292.8	3288.4	3299.4	3292.8	3284.1	3281.9	3273.1	3288.4
10°	3246.8	3249.0	3255.5	3266.5	3268.7	3288.4	3277.5	3262.1	3255.5	3246.8	3262.1
12.5°	3227.0	3229.2	3235.8	3249.0	3253.3	3279.7	3268.7	3244.6	3233.6	3224.8	3240.2
15°	3222.6	3224.8	3233.6	3246.8	3253.3	3279.7	3268.7	3240.2	3224.8	3213.9	3227.0
17.5°	3222.6	3227.0	3240.2	3259.9	3273.1	3299.4	3286.3	3253.3	3231.4	3211.7	3224.8
20°	3224.8	3231.4	3251.2	3279.7	3312.6	3349.9	3332.3	3288.4	3257.7	3233.6	3242.4
22.5°	3244.6	3255.5	3279.7	3317.0	3365.2	3409.1	3393.7	3334.5	3290.6	3257.7	3266.5
25°	3312.6	3317.0	3347.7	3395.9	3442.0	3479.3	3463.9	3409.1	3354.3	3314.8	3325.7
27.5°	3433.2	3444.2	3470.5	3521.0	3560.5	3580.2	3578.0	3540.7	3485.9	3450.8	3459.6
30°	3578.0	3589.0	3624.1	3681.1	3720.6	3742.6	3736.0	3707.5	3657.0	3608.7	3617.5
32.5°	3746.9	3751.3	3793.0	3856.6	3898.3	3931.2	3909.3	3878.6	3814.9	3757.9	3762.3
35°	3961.9	3968.5	4012.4	4071.6	4104.5	4130.8	4126.5	4095.7	4027.7	3966.3	3981.7
37.5°	4231.8	4236.1	4275.6	4350.2	4376.5	4396.3	4400.7	4385.3	4315.1	4236.1	4251.5
40°	4567.4	4569.6	4613.5	4679.3	4707.8	4721.0	4723.2	4725.4	4653.0	4593.7	4589.3
42.5°	4957.9	4968.9	5030.3	5093.9	5107.1	5100.5	5122.4	5144.4	5074.2	4993.0	4999.6
45°	5425.2	5431.7	5515.1	5585.3	5561.2	5539.2	5580.9	5624.8	5561.2	5455.9	5425.2
47.5°	5978.0	5991.2	6081.1	6151.3	6111.8	6072.3	6140.3	6186.4	6083.3	5971.4	5942.9
50°	6603.2	6612.0	6739.2	6827.0	6780.9	6708.5	6794.1	6842.3	6704.1	6565.9	6504.5
52.5°	7342.5	7325.0	7493.9	7647.4	7618.9	7524.6	7594.8	7603.6	7397.4	7202.1	7140.7
55°	8244.1	8226.6	8395.5	8564.4	8634.6	8610.5	8577.6	8524.9	8220.0	8011.6	7954.6
57.5°	9295.0	9240.1	9477.0	9705.2	9858.8	9902.6	9762.2	9639.4	9398.1	9141.4	9075.6
60°	10271.2	10269.0	10644.1	11039.0	11460.2	11635.7	11280.3	10946.9	10405.0	9937.7	9843.4
62.5°	10545.4	10591.5	11205.7	12184.1	13224.0	13844.8	12908.1	11804.6	10758.2	10054.0	9929.0
65°	9869.7	9983.8	10856.9	12401.3	14454.7	15972.8	13858.0	11824.4	10365.5	9488.0	9356.4
67.5°	7274.5	7502.7	8658.8	11190.4	14349.4	16519.0	13689.1	10729.7	9003.2	7959.0	7776.9
70°	3589.0	3806.2	4723.2	7362.3	11806.8	14766.2	11844.1	8086.2	6081.1	5076.4	4909.6
72.5°	1320.6	1408.4	1768.2	3150.2	6515.5	10907.4	8099.4	4517.0	2946.2	2345.1	2233.2
75°	647.2	662.5	717.4	1057.4	2404.4	5133.4	3806.2	1733.1	1083.7	943.3	912.6
77.5°	412.4	419.0	445.3	504.6	772.2	1616.8	1153.9	684.5	530.9	509.0	509.0
80°	230.3	236.9	272.0	313.7	362.0	555.0	414.6	410.2	348.8	304.9	298.4
82.5°	109.7	120.7	173.3	171.1	190.9	278.6	243.5	221.6	223.8	168.9	160.1
85°	50.5	50.5	68.0	81.2	85.6	94.3	111.9	127.2	125.0	85.6	92.1
87.5°	24.1	24.1	24.1	21.9	19.7	17.6	24.1	39.5	57.0	39.5	37.3
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)