

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: P637686

Luminaire Tested: GWS-SA4D-735-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-735-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW 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: 16996.2 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

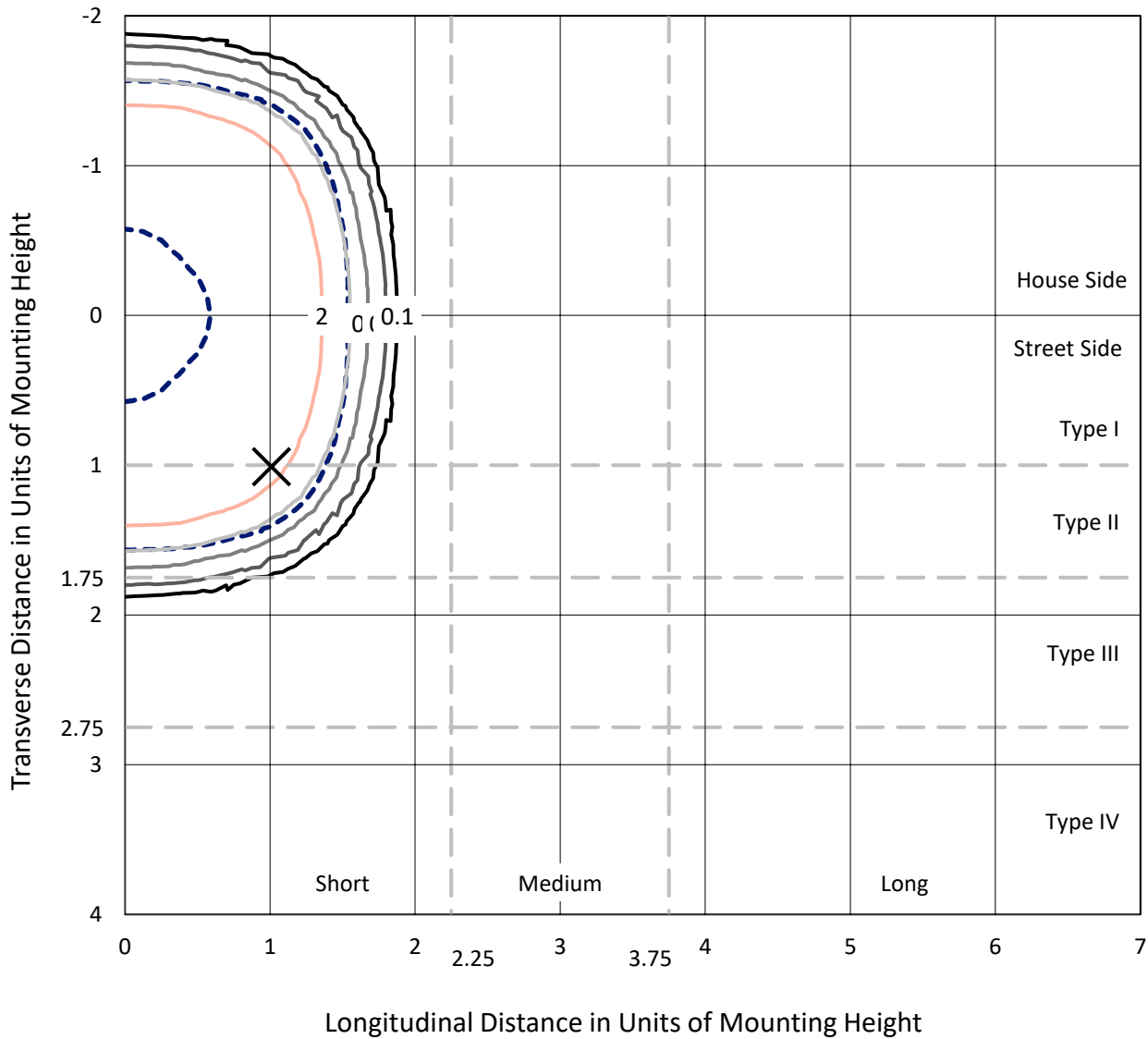
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637686
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Iso-Footcandle Lines of Horizontal Illumination

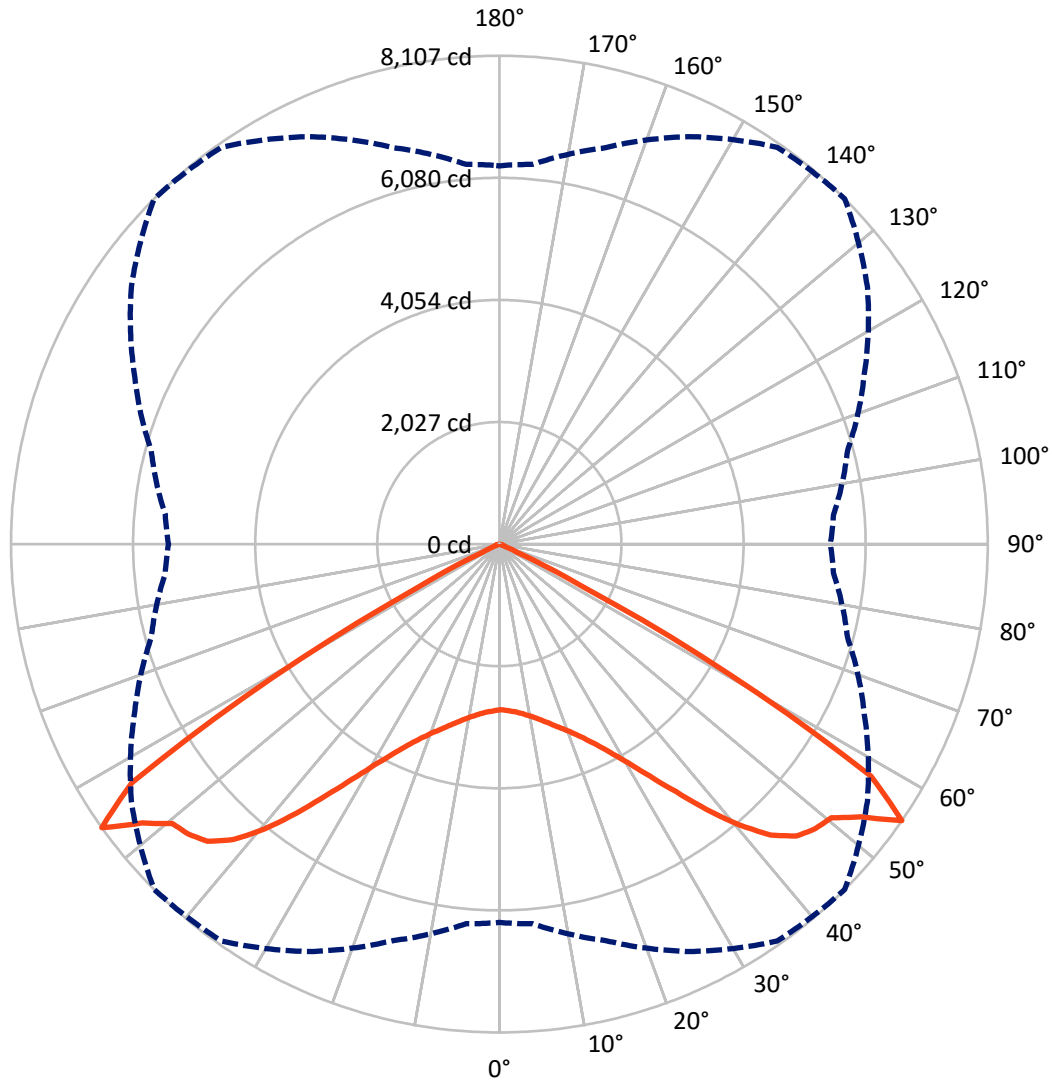
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

REPORT NUMBER: P637686
CATALOG NUMBER: GWS-SA4D-735-U-5NQ-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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CATALOG NUMBER: GWS-SA4D-735-U-5NQ-W-GRSBK

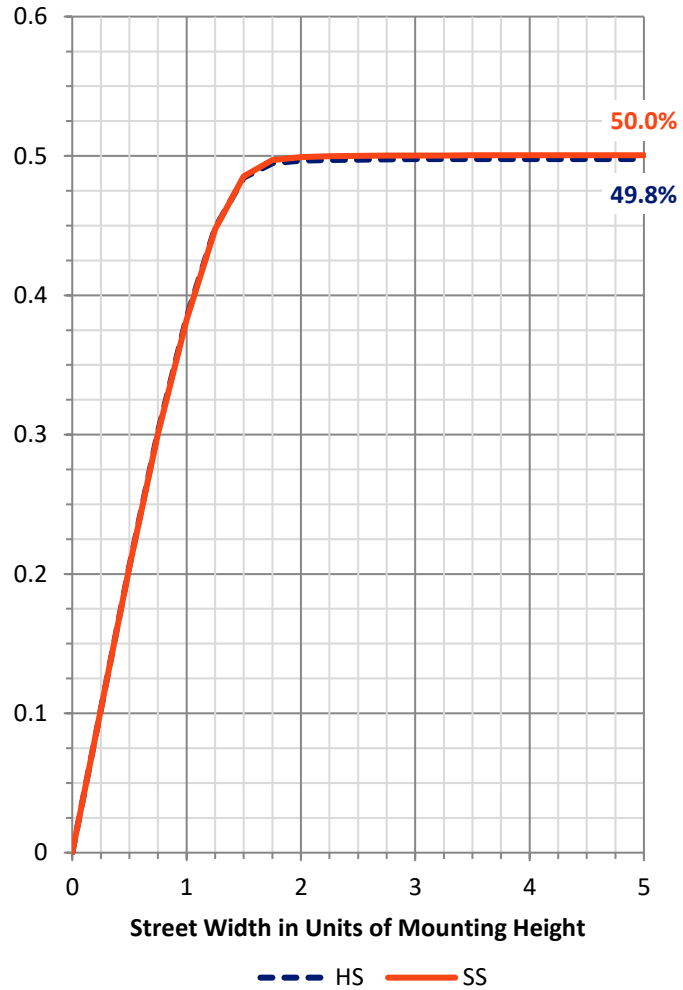
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8498.1	0.0	8498.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8498.1	0.0	8498.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	16996.2	0.0	16996.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.2	1.6
10°-20°	872.7	5.1
20°-30°	1690.2	9.9
30°-40°	3028.1	17.8
40°-50°	5076.8	29.9
50°-60°	5434.5	32.0
60°-70°	597.2	3.5
70°-80°	26.3	0.2
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°	16996.2	100.0
0°-180°	16996.2	100.0

Coefficient of Utilization



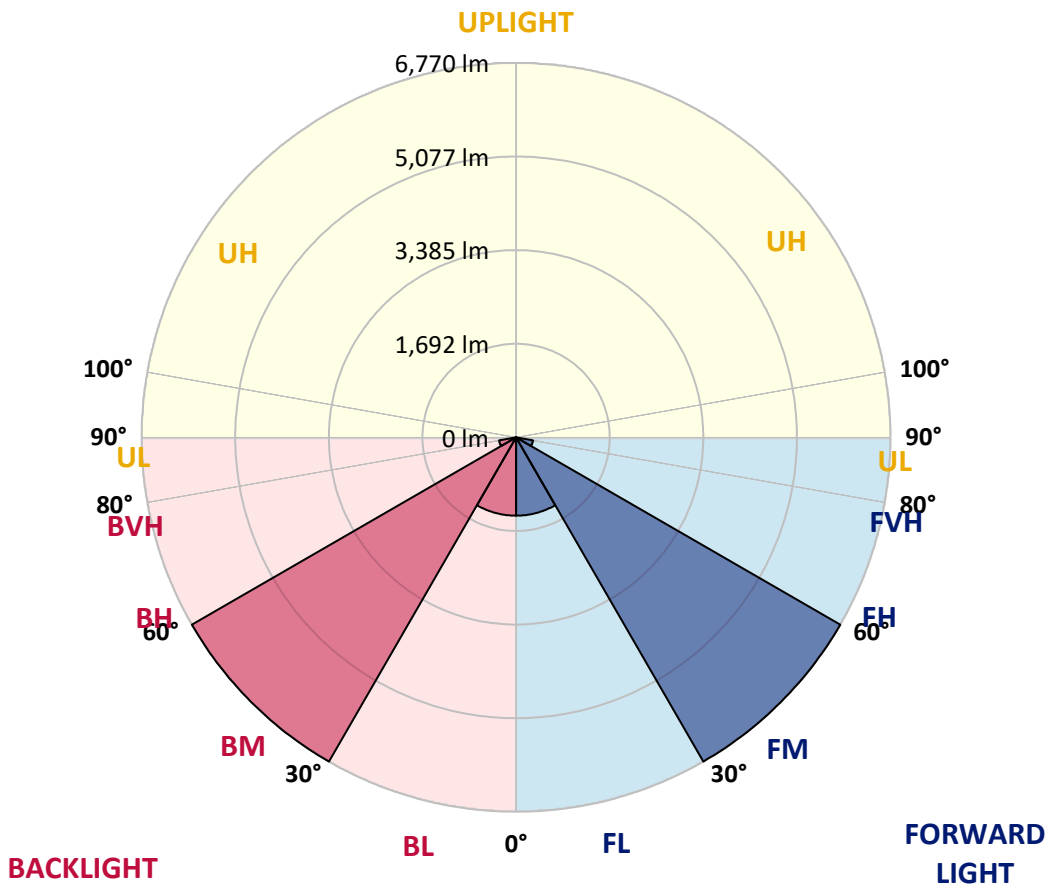
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1416.1	8.3			
FM (30°-60°)	6769.7	39.8			
FH (60°-80°)	311.7	1.8			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1416.1	8.3	B3/2500		
BM (30°-60°)	6769.7	39.8	B4/8500		
BH (60°-80°)	311.7	1.8	B1/500		G0/660
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-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2748.0	2748.0	2748.0	2748.0	2748.0	2748.0	2748.0	2748.0	2748.0	2748.0	2748.0
2.5°	2742.8	2742.8	2749.7	2754.9	2754.9	2768.7	2763.5	2758.3	2758.3	2751.4	2765.3
5°	2782.6	2780.9	2787.8	2791.2	2784.3	2798.2	2789.5	2784.3	2780.9	2773.9	2787.8
7.5°	2825.9	2827.6	2829.3	2836.3	2832.8	2846.7	2839.7	2829.3	2825.9	2815.5	2829.3
10°	2877.8	2877.8	2881.3	2889.9	2891.7	2909.0	2902.1	2889.9	2879.6	2869.2	2883.0
12.5°	2943.6	2945.4	2950.5	2962.7	2969.6	2988.6	2978.3	2954.0	2938.4	2926.3	2941.9
15°	3038.9	3037.1	3044.1	3061.4	3070.0	3083.9	3068.3	3035.4	3016.3	3002.5	3012.9
17.5°	3142.7	3142.7	3146.2	3163.5	3175.6	3196.4	3177.4	3137.6	3120.2	3101.2	3111.6
20°	3257.0	3262.2	3265.7	3277.8	3298.6	3319.4	3303.8	3264.0	3244.9	3220.7	3232.8
22.5°	3407.7	3402.5	3404.2	3425.0	3454.4	3475.2	3463.1	3416.3	3383.4	3364.4	3371.3
25°	3575.6	3573.9	3579.1	3610.3	3643.2	3665.7	3648.4	3587.8	3554.9	3522.0	3535.8
27.5°	3781.7	3783.4	3786.9	3825.0	3876.9	3909.8	3866.5	3805.9	3760.9	3717.6	3728.0
30°	4025.8	4022.4	4032.8	4084.7	4160.9	4212.8	4162.6	4077.8	4013.7	3972.2	3977.4
32.5°	4285.6	4289.0	4316.7	4399.8	4500.3	4592.1	4489.9	4377.3	4294.2	4216.3	4226.7
35°	4566.1	4574.7	4637.1	4760.0	4924.5	5047.4	4905.5	4720.2	4602.4	4502.0	4505.5
37.5°	4896.8	4917.6	5004.2	5187.7	5423.2	5587.7	5379.9	5134.0	4981.6	4857.0	4848.3
40°	5331.4	5355.7	5473.4	5691.6	5977.3	6127.9	5887.2	5634.4	5445.7	5310.6	5289.9
42.5°	5830.1	5861.3	5989.4	6212.8	6498.5	6600.6	6365.2	6152.2	5982.5	5823.2	5816.3
45°	6392.9	6410.2	6514.1	6685.5	6891.5	6915.8	6739.2	6621.4	6450.0	6301.1	6289.0
47.5°	6921.0	6938.3	7009.3	7097.6	7146.1	7059.5	7028.3	6976.4	6754.7	6571.2	6533.1
50°	7322.7	7336.5	7424.9	7459.5	7324.4	7140.9	7201.5	7090.7	6850.0	6643.9	6585.1
52.5°	7295.0	7329.6	7556.5	7753.8	7669.0	7520.1	7357.3	7118.4	6744.4	6462.1	6389.4
55°	6280.3	6327.1	6813.6	7462.9	8043.0	8107.1	7456.0	6685.5	5982.5	5568.6	5494.2
57.5°	4036.2	4048.3	4642.3	5553.1	6860.4	7272.5	6183.3	5040.5	4166.1	3710.7	3679.5
60°	1483.9	1459.7	1908.2	2663.1	3951.4	4387.7	3639.7	2548.8	1818.1	1496.1	1470.1
62.5°	356.7	360.2	446.7	670.1	1239.8	1534.1	1212.1	677.0	431.2	361.9	358.4
65°	180.1	176.6	178.3	192.2	264.9	316.9	259.7	183.5	176.6	178.3	176.6
67.5°	116.0	114.3	117.7	119.5	117.7	110.8	109.1	112.6	112.6	114.3	110.8
70°	71.0	69.3	72.7	77.9	74.5	65.8	69.3	72.7	69.3	67.5	67.5
72.5°	38.1	38.1	41.6	45.0	41.6	38.1	38.1	39.8	38.1	38.1	38.1
75°	17.3	17.3	19.0	20.8	17.3	17.3	17.3	17.3	17.3	17.3	17.3
77.5°	5.2	5.2	6.9	6.9	5.2	5.2	5.2	5.2	6.9	6.9	6.9
80°	1.7	3.5	3.5	1.7	1.7	1.7	1.7	1.7	3.5	3.5	3.5
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
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)