

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: P637959

Luminaire Tested: GWS-SA4D-830-U-5MQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-830-U-5MQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17033.4 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

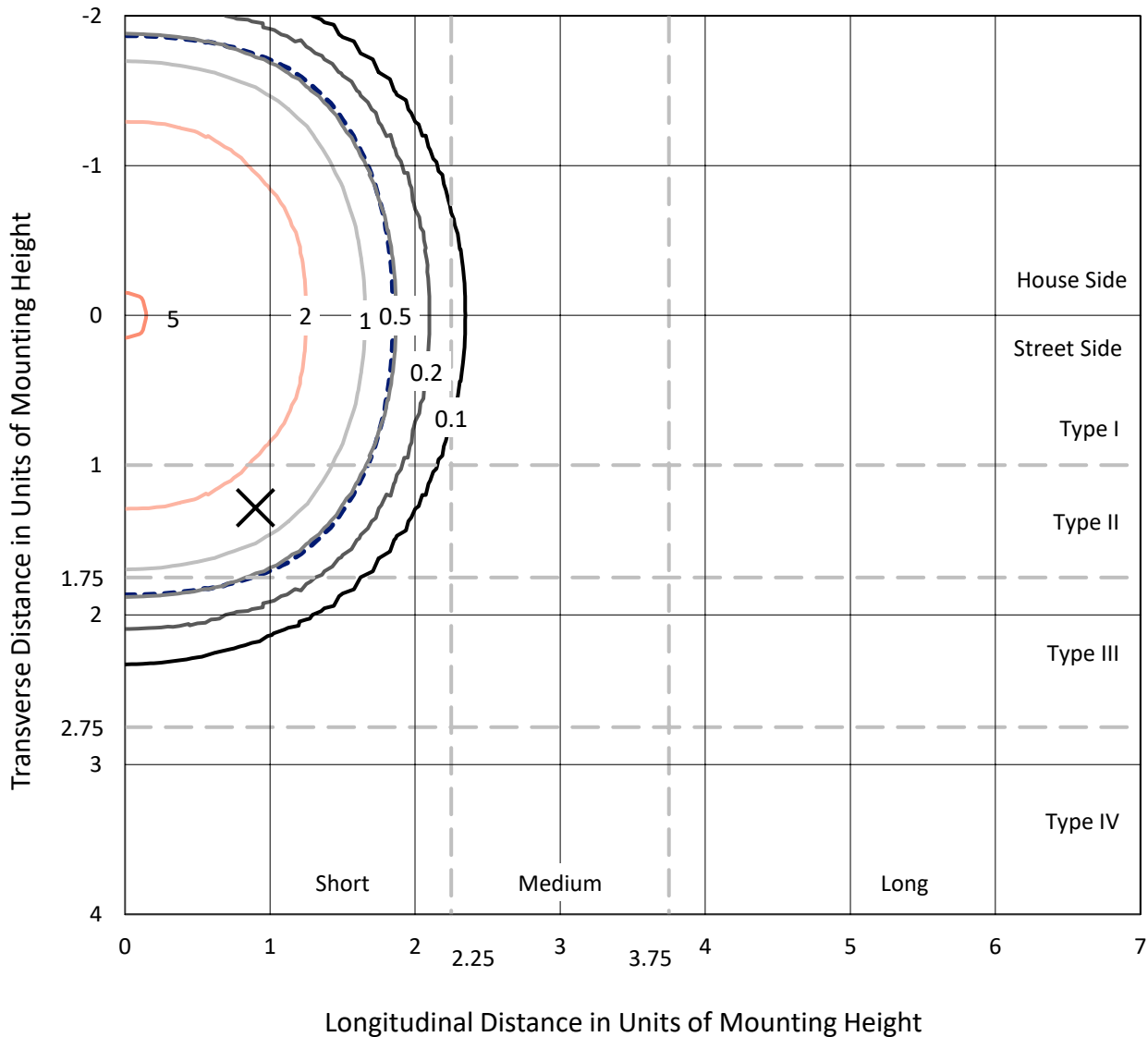
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

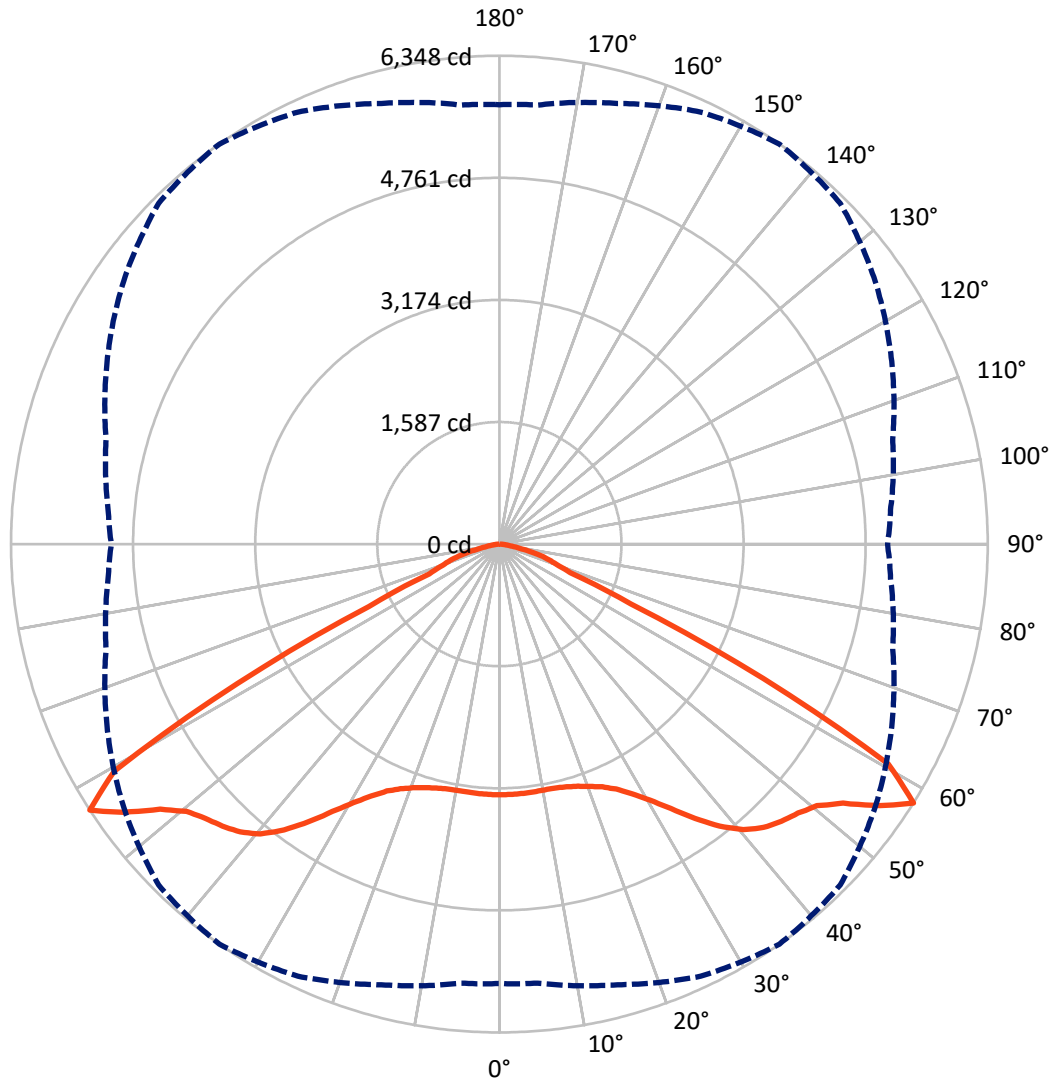
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	8516.7	0.0	8516.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8516.7	0.0	8516.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	17033.4	0.0	17033.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.1	1.8
10°-20°	925.0	5.4
20°-30°	1614.0	9.5
30°-40°	2646.6	15.5
40°-50°	3897.9	22.9
50°-60°	4974.4	29.2
60°-70°	2096.4	12.3
70°-80°	500.8	2.9
80°-90°	68.2	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°	17033.4	100.0
0°-180°	17033.4	100.0

Coefficient of Utilization



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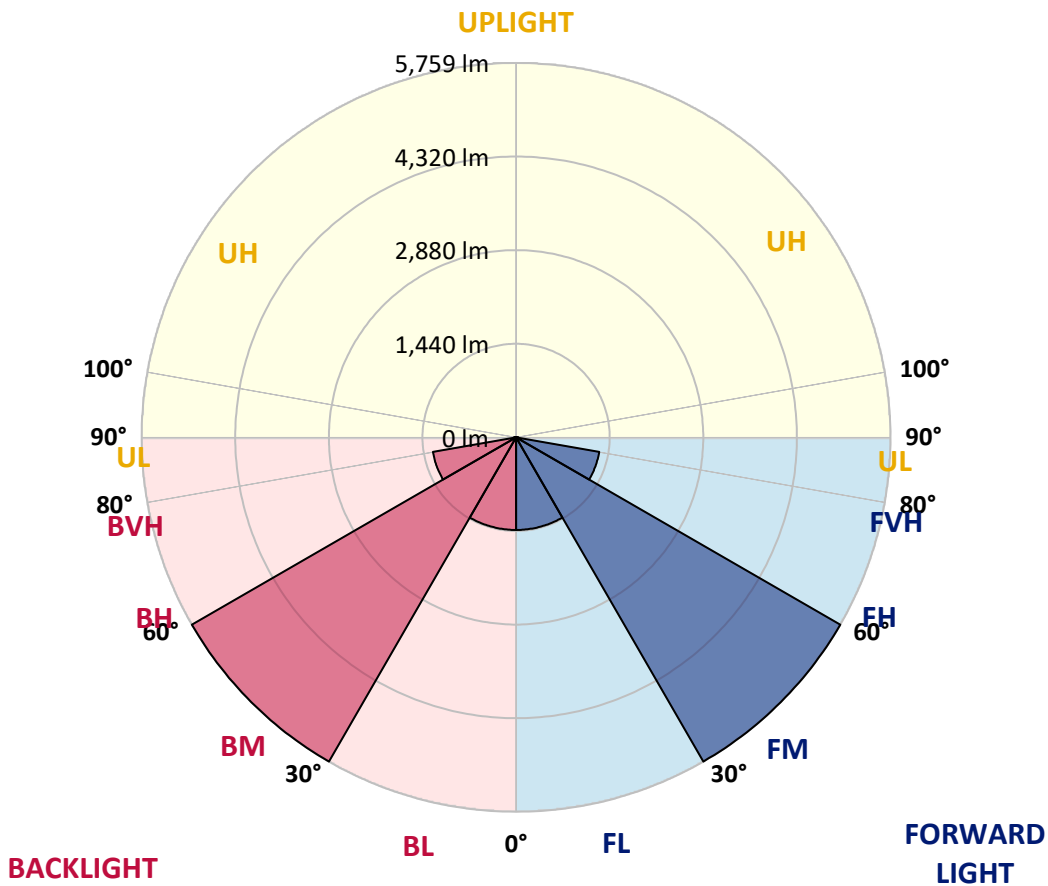
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1424.6	8.4			
FM (30°-60°)	5759.5	33.8			
FH (60°-80°)	1298.6	7.6			G1/1800
FVH (80°-90°)	34.1	0.2			G1/100
BL (0°-30°)	1424.6	8.4	B3/2500		
BM (30°-60°)	5759.5	33.8	B4/8500		
BH (60°-80°)	1298.6	7.6	B3/2500		G1/1800
BVH (80°-90°)	34.1	0.2			G1/100
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°	3259.1	3259.1	3259.1	3259.1	3259.1	3259.1	3259.1	3259.1	3259.1	3259.1	3259.1
2.5°	3239.6	3239.6	3246.6	3253.6	3256.4	3268.9	3267.5	3263.3	3260.5	3252.2	3263.3
5°	3246.6	3246.6	3252.2	3256.4	3255.0	3264.7	3260.5	3253.6	3249.4	3241.0	3253.6
7.5°	3245.2	3245.2	3249.4	3253.6	3250.8	3259.1	3252.2	3242.4	3235.4	3227.1	3238.2
10°	3227.1	3229.9	3234.0	3243.8	3248.0	3260.5	3250.8	3235.4	3224.3	3214.5	3225.7
12.5°	3224.3	3227.1	3232.6	3245.2	3252.2	3270.3	3257.8	3232.6	3215.9	3203.4	3214.5
15°	3236.8	3239.6	3248.0	3263.3	3274.5	3294.0	3275.9	3241.0	3217.3	3200.6	3210.3
17.5°	3252.2	3256.4	3268.9	3291.2	3309.4	3330.3	3308.0	3266.1	3232.6	3210.3	3218.7
20°	3268.9	3274.5	3294.0	3327.5	3361.0	3387.4	3359.6	3303.8	3263.3	3234.0	3242.4
22.5°	3298.2	3305.2	3330.3	3377.7	3427.9	3466.9	3432.1	3356.8	3303.8	3266.1	3273.1
25°	3358.2	3366.5	3398.6	3455.8	3526.9	3574.3	3525.5	3440.4	3366.5	3320.5	3327.5
27.5°	3464.2	3468.3	3510.2	3585.5	3673.3	3727.7	3669.2	3568.7	3486.5	3433.5	3439.0
30°	3603.6	3616.2	3658.0	3757.0	3861.6	3934.1	3857.4	3738.9	3644.1	3579.9	3585.5
32.5°	3773.7	3782.1	3844.9	3948.1	4098.7	4182.4	4077.8	3936.9	3822.6	3744.5	3750.0
35°	3996.9	4003.9	4063.8	4194.9	4377.6	4455.7	4335.8	4174.0	4041.5	3967.6	3988.5
37.5°	4263.2	4275.8	4319.0	4448.7	4652.3	4729.0	4591.0	4440.4	4302.3	4234.0	4249.3
40°	4549.1	4547.7	4582.6	4697.0	4882.4	4929.9	4805.7	4685.8	4567.3	4522.6	4547.7
42.5°	4794.6	4787.6	4812.7	4907.5	5035.8	5040.0	4957.8	4890.8	4807.1	4776.5	4800.2
45°	4966.1	4968.9	5006.6	5072.1	5137.7	5102.8	5077.7	5066.5	5001.0	4959.1	4963.3
47.5°	5101.4	5112.6	5172.5	5217.1	5225.5	5166.9	5201.8	5218.5	5164.1	5100.0	5081.9
50°	5221.3	5239.5	5317.6	5365.0	5346.8	5272.9	5341.3	5366.4	5246.4	5123.7	5087.4
52.5°	5438.9	5459.8	5554.6	5616.0	5595.1	5521.2	5585.3	5496.1	5293.8	5143.2	5097.2
55°	5786.1	5795.9	5911.6	6012.1	6002.3	5911.6	5860.0	5662.0	5416.6	5260.4	5217.1
57.5°	5712.2	5729.0	5929.8	6197.5	6348.2	6265.9	5963.2	5625.8	5292.5	5104.2	5045.6
60°	4494.7	4535.2	4784.8	5256.2	5808.4	5807.1	5245.0	4720.7	4319.0	4069.4	4044.3
62.5°	2624.6	2652.5	2879.8	3356.8	3851.8	3882.5	3487.9	3128.1	2776.6	2607.9	2527.0
65°	1242.6	1241.2	1331.8	1546.6	1881.3	1907.8	1789.3	1592.6	1384.8	1327.6	1312.3
67.5°	917.6	917.6	910.7	926.0	990.2	1004.1	990.2	958.1	938.6	951.1	942.7
70°	796.3	797.7	789.3	785.2	785.2	781.0	786.5	799.1	807.5	824.2	815.8
72.5°	645.7	647.1	647.1	648.5	649.9	644.3	652.7	659.6	661.0	666.6	661.0
75°	458.8	461.6	470.0	476.9	482.5	482.5	485.3	486.7	481.1	488.1	476.9
77.5°	252.4	255.2	270.5	283.1	295.7	297.0	301.2	304.0	301.2	306.8	298.4
80°	139.5	142.2	149.2	154.8	164.6	172.9	178.5	181.3	181.3	185.5	181.3
82.5°	79.5	82.3	86.5	89.3	97.6	104.6	110.2	114.4	114.4	115.8	113.0
85°	37.7	37.7	40.4	43.2	47.4	50.2	57.2	61.4	61.4	64.2	61.4
87.5°	5.6	7.0	8.4	8.4	11.2	13.9	16.7	18.1	20.9	22.3	22.3
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)