

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: P638458

Luminaire Tested: GWS-SA4E-830-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-830-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25409.2 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

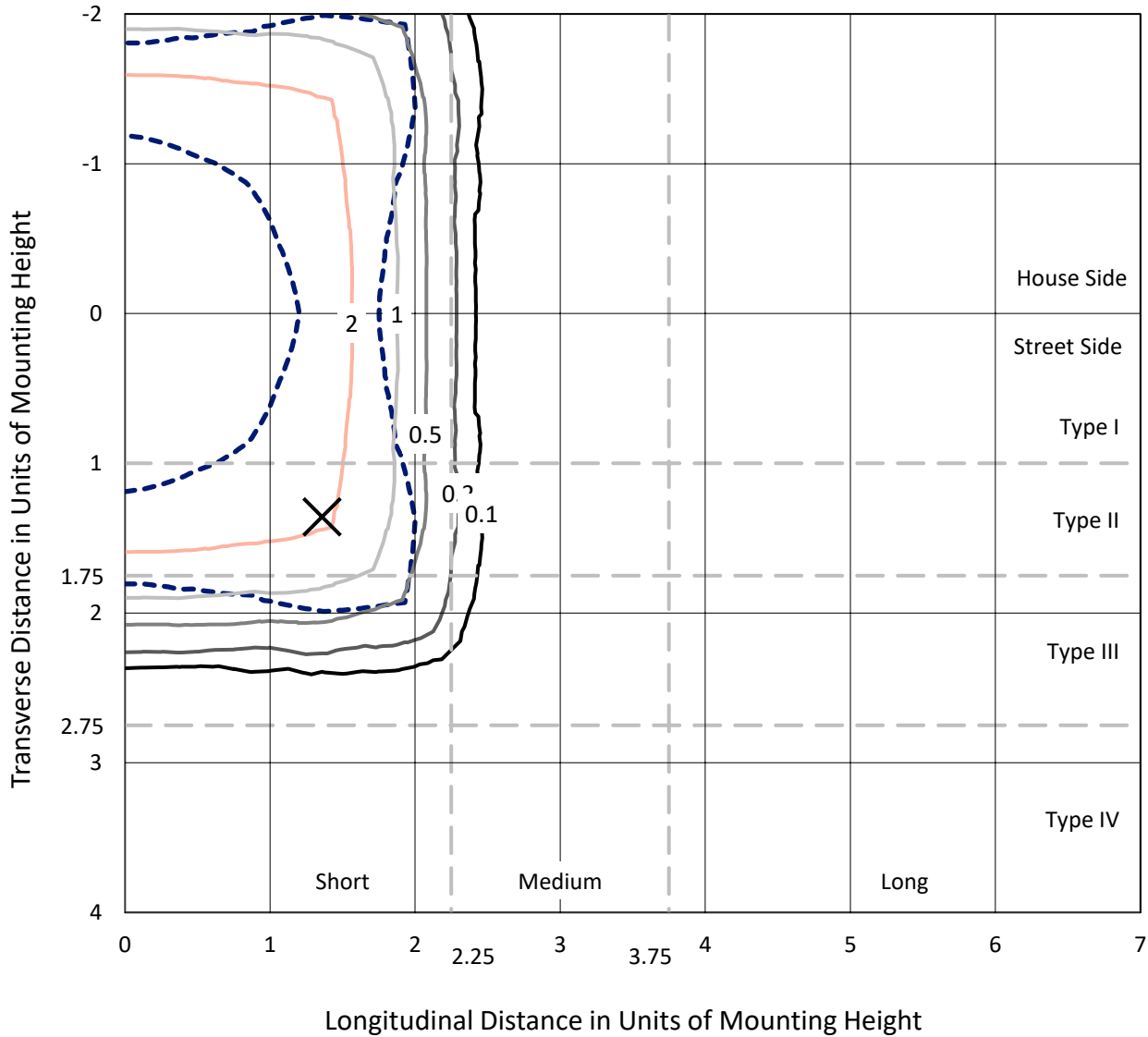
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

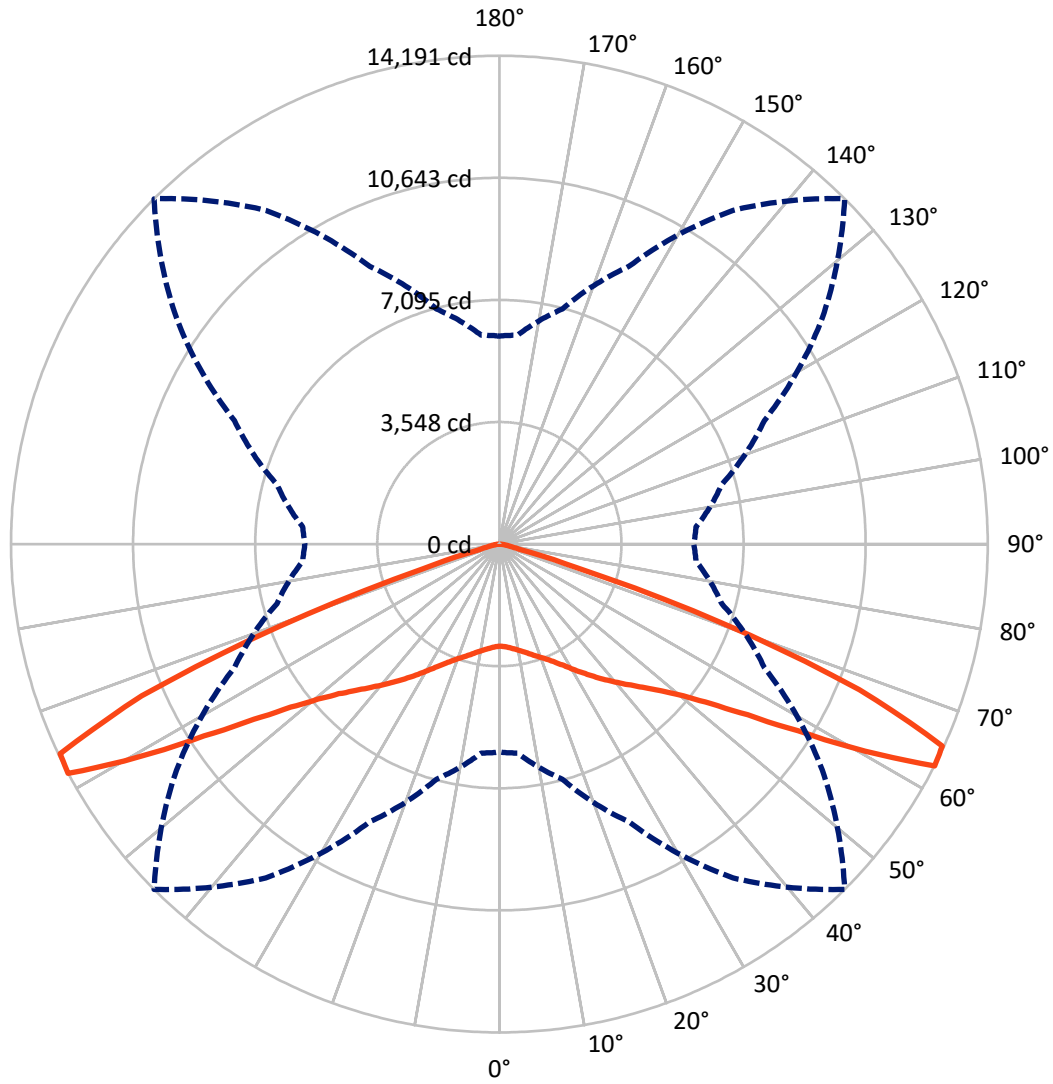
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12704.6	0.0	12704.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12704.6	0.0	12704.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	25409.2	0.0	25409.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.8	1.1
10°-20°	937.9	3.7
20°-30°	1774.4	7.0
30°-40°	2986.6	11.8
40°-50°	4771.7	18.8
50°-60°	7691.8	30.3
60°-70°	6275.6	24.7
70°-80°	609.4	2.4
80°-90°	70.9	0.3
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°	25409.2	100.0
0°-180°	25409.2	100.0

Coefficient of Utilization



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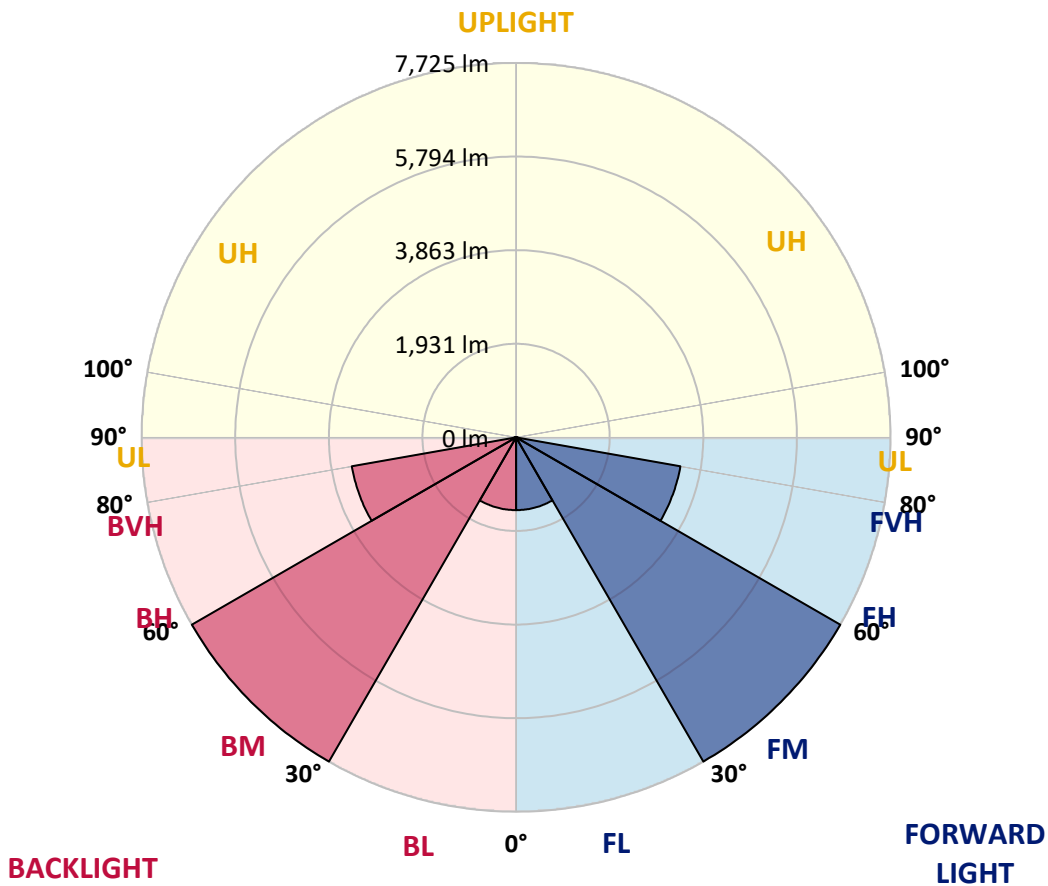
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1501.6	5.9			
FM (30°-60°)	7725.0	30.4			
FH (60°-80°)	3442.5	13.5			G2/5000
FVH (80°-90°)	35.5	0.1			G1/100
BL (0°-30°)	1501.6	5.9	B3/2500		
BM (30°-60°)	7725.0	30.4	B4/8500		
BH (60°-80°)	3442.5	13.5	B4/5000		G2/5000
BVH (80°-90°)	35.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2964.3	2964.3	2964.3	2964.3	2964.3	2964.3	2964.3	2964.3	2964.3	2964.3	2964.3
2.5°	2960.8	2960.8	2967.8	2973.0	2969.6	2983.5	2981.8	2978.3	2976.5	2971.3	2987.0
5°	3000.9	3000.9	3006.2	3011.4	3002.7	3020.1	3013.1	3009.6	3007.9	3000.9	3014.9
7.5°	3046.2	3051.5	3053.2	3061.9	3056.7	3075.9	3070.6	3063.7	3060.2	3051.5	3063.7
10°	3096.8	3100.3	3102.0	3117.7	3119.4	3142.1	3136.9	3128.1	3121.2	3112.5	3129.9
12.5°	3164.7	3166.5	3171.7	3190.9	3196.1	3213.5	3211.8	3199.6	3190.9	3178.7	3197.8
15°	3251.9	3253.6	3262.3	3281.5	3290.2	3311.1	3304.2	3285.0	3272.8	3258.8	3274.5
17.5°	3342.5	3349.5	3358.2	3377.3	3389.5	3413.9	3405.2	3384.3	3373.9	3359.9	3370.4
20°	3459.3	3461.0	3466.2	3487.1	3495.8	3523.7	3525.5	3504.6	3499.3	3485.4	3501.1
22.5°	3588.2	3590.0	3595.2	3617.8	3633.5	3650.9	3661.4	3649.2	3640.5	3623.1	3642.2
25°	3731.1	3748.5	3753.8	3781.7	3799.1	3809.5	3821.7	3816.5	3804.3	3783.4	3792.1
27.5°	3931.5	3935.0	3943.7	3975.1	3985.5	3996.0	4008.2	4009.9	3992.5	3968.1	3980.3
30°	4159.8	4158.1	4177.2	4201.6	4210.4	4219.1	4236.5	4247.0	4224.3	4198.2	4210.4
32.5°	4393.3	4414.2	4438.6	4461.3	4456.1	4459.6	4487.4	4506.6	4475.2	4428.2	4438.6
35°	4656.5	4670.4	4701.8	4734.9	4727.9	4722.7	4740.1	4759.3	4715.7	4654.7	4670.4
37.5°	4926.6	4947.5	4994.6	5034.6	5024.2	4999.8	5019.0	5039.9	4998.1	4928.3	4921.4
40°	5228.1	5261.2	5329.2	5362.3	5334.4	5287.3	5320.5	5371.0	5329.2	5249.0	5229.8
42.5°	5581.9	5621.9	5689.9	5740.4	5679.4	5602.8	5658.5	5731.7	5721.3	5615.0	5581.9
45°	6019.3	6045.4	6129.1	6153.5	6062.8	5956.5	6057.6	6169.1	6143.0	6028.0	5984.4
47.5°	6495.0	6535.1	6608.3	6653.6	6507.2	6374.8	6515.9	6665.8	6637.9	6529.9	6479.3
50°	7101.5	7153.8	7249.6	7288.0	7085.8	6934.2	7115.4	7305.4	7251.4	7106.7	7040.5
52.5°	7762.0	7803.8	7967.6	8044.3	7854.3	7690.5	7849.1	8035.6	7920.6	7728.9	7640.0
55°	8344.0	8385.9	8626.3	8880.8	8872.1	8758.8	8839.0	8842.4	8530.5	8213.3	8119.2
57.5°	8469.5	8511.3	8969.7	9635.4	10105.9	10236.6	10001.3	9506.4	8720.5	8164.5	8058.2
60°	7800.3	7847.4	8575.8	9792.2	11339.7	12212.8	11128.9	9492.5	8133.2	7380.3	7279.2
62.5°	6043.7	6094.2	7073.6	8899.9	11838.1	14190.8	11456.5	8493.9	6690.2	5737.0	5648.1
65°	2885.9	2885.9	4130.2	6383.5	10844.8	14143.7	10508.5	6284.2	4027.4	3093.3	3016.6
67.5°	714.5	718.0	1063.0	2485.1	7376.8	11287.4	7497.1	3016.6	1418.6	1003.8	977.7
70°	446.1	444.4	493.2	672.7	2580.9	6850.5	3065.4	909.7	576.8	508.9	505.4
72.5°	346.8	346.8	371.2	430.4	676.2	2333.5	894.0	505.4	418.2	376.4	376.4
75°	273.6	273.6	291.0	322.4	399.1	601.2	475.8	374.7	324.1	296.3	292.8
77.5°	203.9	207.4	221.3	242.2	271.9	338.1	301.5	282.3	252.7	231.8	224.8
80°	132.4	137.7	155.1	167.3	177.8	223.1	196.9	205.6	191.7	167.3	163.8
82.5°	71.5	73.2	94.1	97.6	101.1	122.0	125.5	130.7	135.9	106.3	99.3
85°	26.1	26.1	31.4	36.6	40.1	43.6	59.3	73.2	76.7	61.0	59.3
87.5°	5.2	5.2	5.2	3.5	3.5	3.5	10.5	19.2	31.4	24.4	24.4
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)