

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: P640933

Luminaire Tested: GWS-SA5E-830-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640933
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-SA5E-830-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31169.7 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

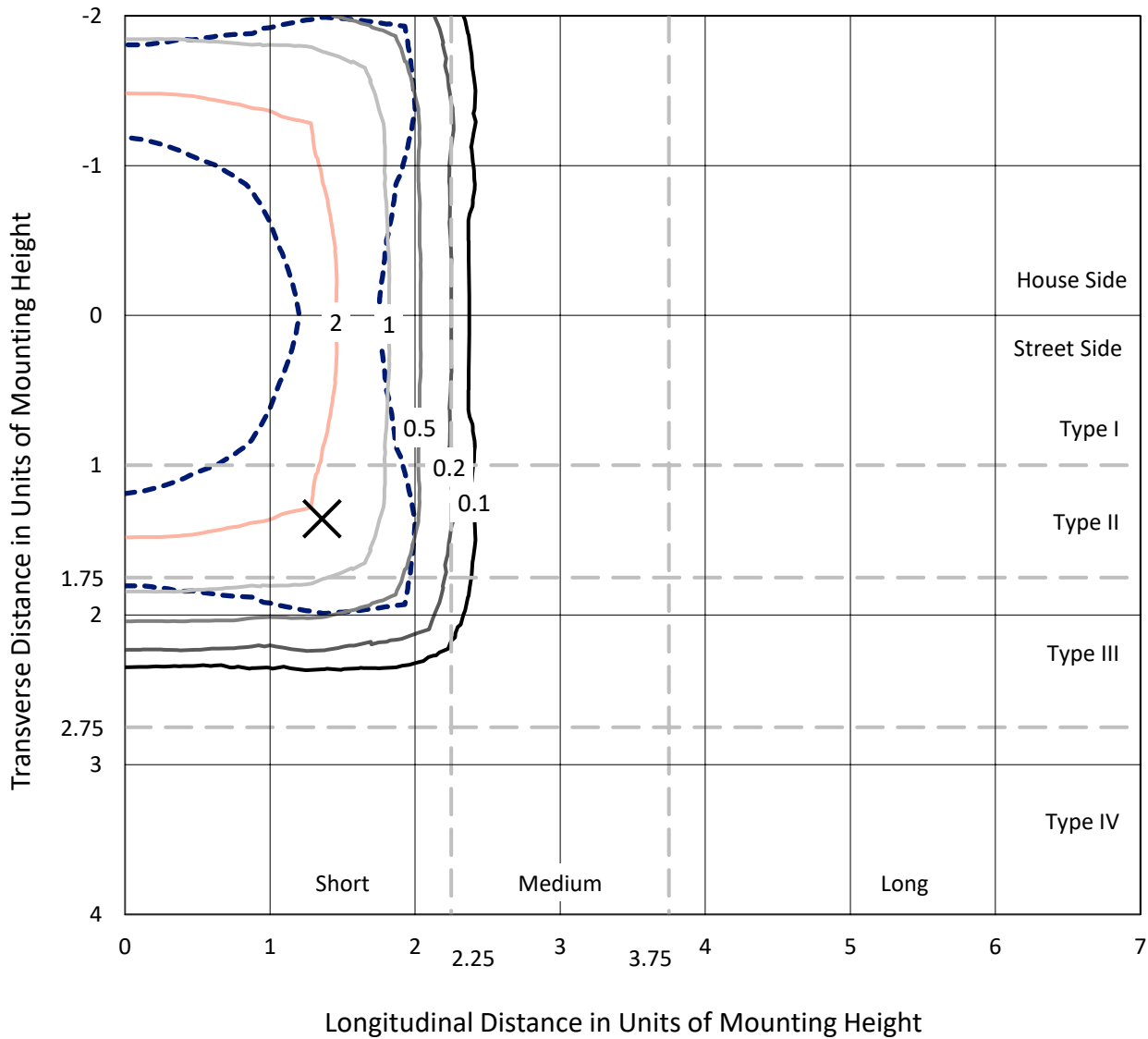
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

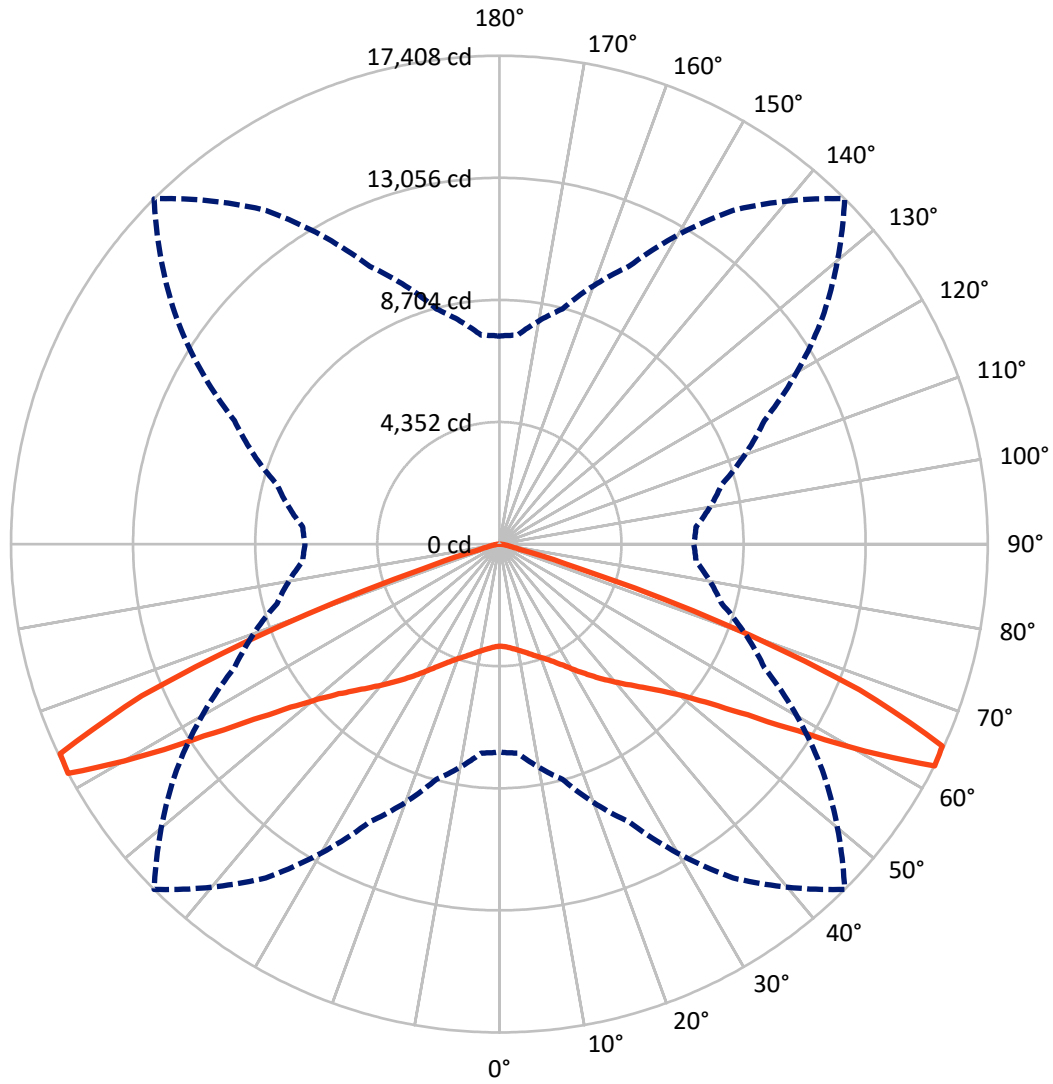
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 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	15584.8	0.0	15584.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15584.8	0.0	15584.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	31169.7	0.0	31169.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.8	1.1
10°-20°	1150.5	3.7
20°-30°	2176.7	7.0
30°-40°	3663.7	11.8
40°-50°	5853.5	18.8
50°-60°	9435.6	30.3
60°-70°	7698.3	24.7
70°-80°	747.6	2.4
80°-90°	87.0	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°	31169.7	100.0
0°-180°	31169.7	100.0

Coefficient of Utilization



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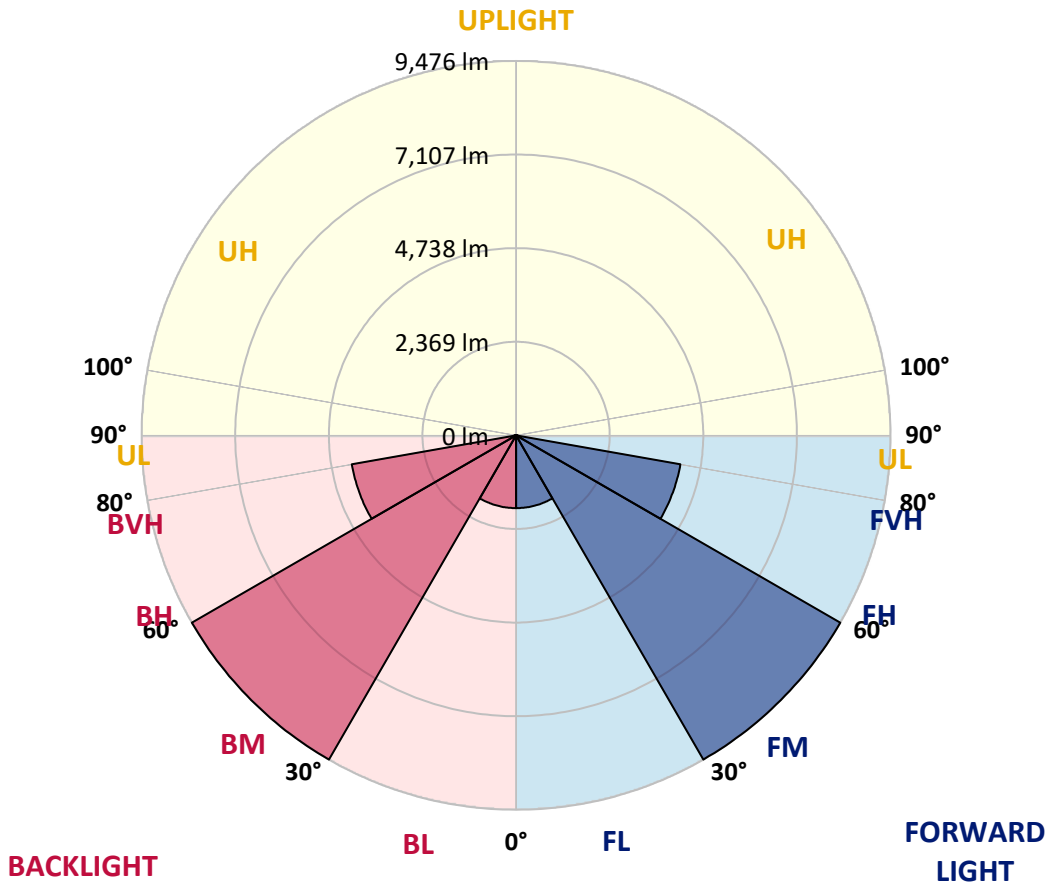
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1842.0	5.9			
FM (30°-60°)	9476.4	30.4			
FH (60°-80°)	4223.0	13.5			G2/5000
FVH (80°-90°)	43.5	0.1			G1/100
BL (0°-30°)	1842.0	5.9	B3/2500		
BM (30°-60°)	9476.4	30.4	B5		
BH (60°-80°)	4223.0	13.5	B4/5000		G2/5000
BVH (80°-90°)	43.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3636.4	3636.4	3636.4	3636.4	3636.4	3636.4	3636.4	3636.4	3636.4	3636.4	3636.4
2.5°	3632.1	3632.1	3640.6	3647.1	3642.8	3659.9	3657.7	3653.5	3651.3	3644.9	3664.2
5°	3681.3	3681.3	3687.7	3694.1	3683.4	3704.8	3696.2	3691.9	3689.8	3681.3	3698.4
7.5°	3736.8	3743.3	3745.4	3756.1	3749.7	3773.2	3766.8	3758.2	3753.9	3743.3	3758.2
10°	3798.8	3803.1	3805.3	3824.5	3826.6	3854.4	3848.0	3837.3	3828.8	3818.1	3839.5
12.5°	3882.2	3884.3	3890.8	3914.3	3920.7	3942.1	3939.9	3925.0	3914.3	3899.3	3922.8
15°	3989.1	3991.2	4001.9	4025.4	4036.1	4061.8	4053.2	4029.7	4014.8	3997.7	4016.9
17.5°	4100.3	4108.8	4119.5	4143.0	4158.0	4187.9	4177.2	4151.6	4138.7	4121.6	4134.5
20°	4243.5	4245.6	4252.0	4277.7	4288.4	4322.6	4324.7	4299.1	4292.7	4275.6	4294.8
22.5°	4401.7	4403.8	4410.2	4438.0	4457.3	4478.7	4491.5	4476.5	4465.8	4444.4	4468.0
25°	4577.0	4598.4	4604.8	4639.0	4660.4	4673.2	4688.2	4681.7	4666.8	4641.1	4651.8
27.5°	4822.8	4827.1	4837.8	4876.3	4889.1	4901.9	4916.9	4919.0	4897.7	4867.7	4882.7
30°	5102.9	5100.7	5124.3	5154.2	5164.9	5175.6	5196.9	5209.8	5182.0	5149.9	5164.9
32.5°	5389.3	5415.0	5444.9	5472.7	5466.3	5470.6	5504.8	5528.3	5489.8	5432.1	5444.9
35°	5712.2	5729.3	5767.7	5808.4	5799.8	5793.4	5814.8	5838.3	5784.8	5710.0	5729.3
37.5°	6043.5	6069.2	6126.9	6176.0	6163.2	6133.3	6156.8	6182.5	6131.2	6045.6	6037.1
40°	6413.3	6454.0	6537.3	6578.0	6543.7	6486.0	6526.6	6588.6	6537.3	6439.0	6415.5
42.5°	6847.3	6896.5	6979.9	7041.9	6967.0	6873.0	6941.4	7031.2	7018.3	6887.9	6847.3
45°	7383.9	7416.0	7518.6	7548.5	7437.3	7306.9	7430.9	7567.7	7535.7	7394.6	7341.1
47.5°	7967.5	8016.7	8106.5	8162.0	7982.5	7820.0	7993.2	8177.0	8142.8	8010.3	7948.3
50°	8711.5	8775.6	8893.2	8940.2	8692.2	8506.2	8728.6	8961.6	8895.3	8717.9	8636.6
52.5°	9521.7	9573.0	9773.9	9868.0	9635.0	9434.0	9628.6	9857.3	9716.2	9481.1	9372.0
55°	10235.7	10287.0	10582.0	10894.1	10883.4	10744.5	10842.8	10847.1	10464.4	10075.4	9959.9
57.5°	10389.6	10440.9	11003.2	11819.8	12397.0	12557.3	12268.7	11661.6	10697.5	10015.5	9885.1
60°	9568.7	9626.4	10520.0	12012.2	13910.5	14981.6	13651.9	11644.5	9977.0	9053.5	8929.5
62.5°	7413.8	7475.8	8677.3	10917.6	14521.9	17408.0	14053.8	10419.5	8206.9	7037.6	6928.5
65°	3540.2	3540.2	5066.5	7830.7	13303.4	17350.2	12890.8	7708.8	4940.4	3794.6	3700.5
67.5°	876.5	880.8	1304.0	3048.5	9049.2	13846.4	9196.7	3700.5	1740.2	1231.4	1199.3
70°	547.3	545.1	605.0	825.2	3166.1	8403.6	3760.4	1115.9	707.6	624.2	620.0
72.5°	425.4	425.4	455.3	528.0	829.5	2862.5	1096.7	620.0	513.1	461.8	461.8
75°	335.6	335.6	357.0	395.5	489.6	737.5	583.6	459.6	397.6	363.4	359.1
77.5°	250.1	254.4	271.5	297.2	333.5	414.7	369.8	346.3	310.0	284.3	275.8
80°	162.5	168.9	190.3	205.2	218.1	273.6	241.6	252.3	235.2	205.2	201.0
82.5°	87.6	89.8	115.4	119.7	124.0	149.6	153.9	160.3	166.7	130.4	121.9
85°	32.1	32.1	38.5	44.9	49.2	53.4	72.7	89.8	94.1	74.8	72.7
87.5°	6.4	6.4	6.4	4.3	4.3	4.3	12.8	23.5	38.5	29.9	29.9
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)