

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: P640666

Luminaire Tested: GWS-SA5E-735-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

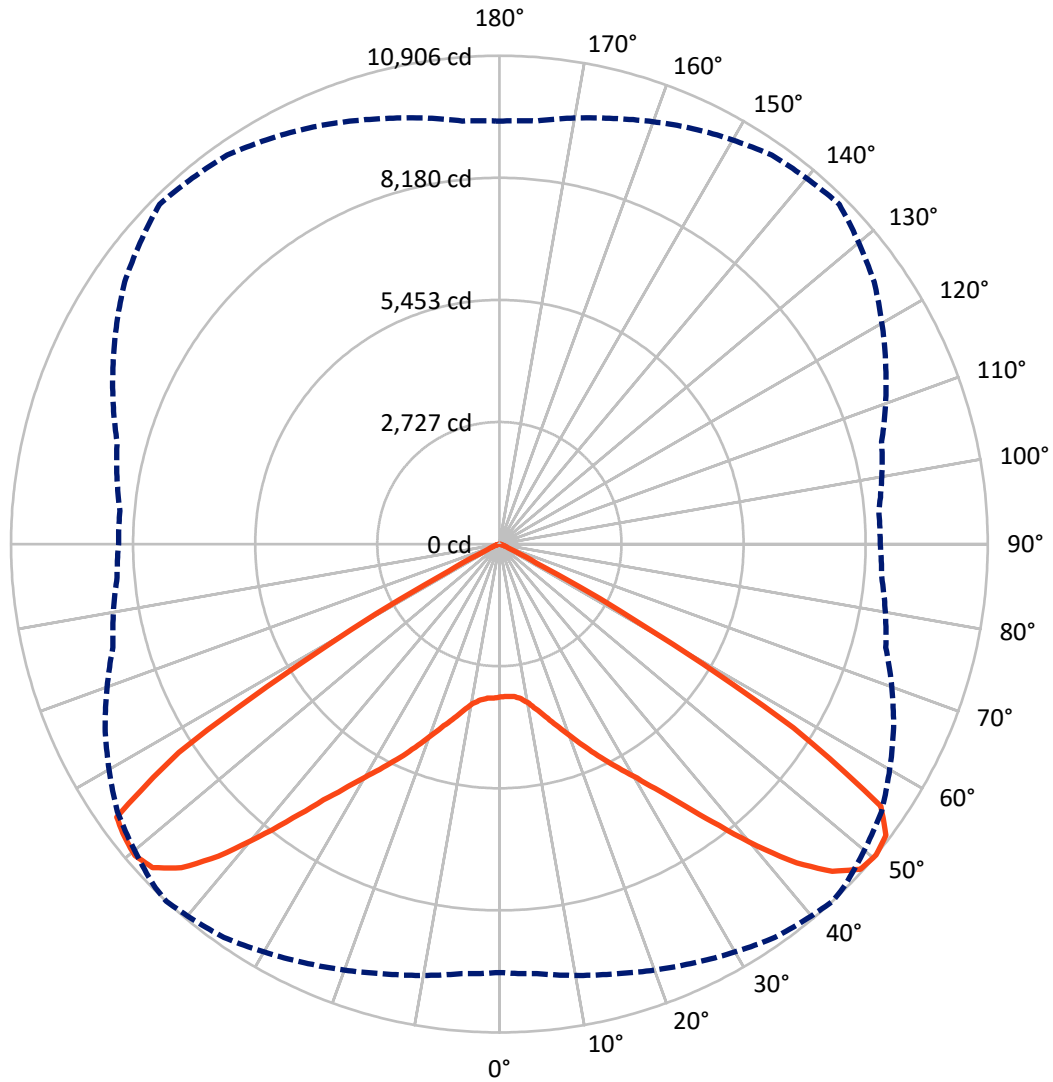
Lumens per Lamp: N/A
Luminaire Lumens: 23997.5 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

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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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11998.5	0.0	11998.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11999.1	0.0	11999.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	23997.5	0.0	23997.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.1	1.4
10°-20°	1156.7	4.8
20°-30°	2340.2	9.8
30°-40°	4341.9	18.1
40°-50°	7207.4	30.0
50°-60°	7355.4	30.7
60°-70°	1206.2	5.0
70°-80°	52.8	0.2
80°-90°	0.7	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°	23997.5	100.0
0°-180°	23997.5	100.0

Coefficient of Utilization



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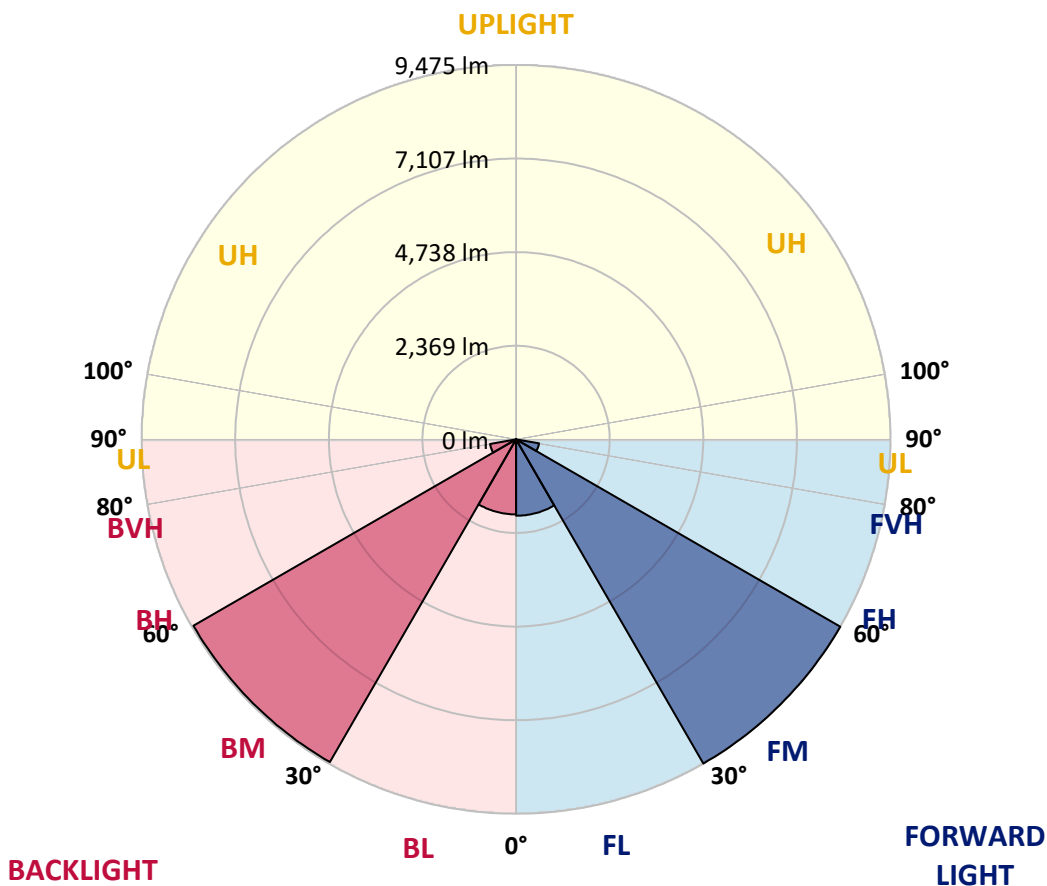
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1933.3	8.1			
FM (30°-60°)	9475.4	39.5			
FH (60°-80°)	590.1	2.5			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	1899.7	7.9	B3/2500		
BM (30°-60°)	9429.3	39.3	B5		
BH (60°-80°)	668.9	2.8	B2/1000		G1/1800
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	3413.3	3413.3	3413.3	3413.3	3413.3	3413.3	3413.3	3413.3	3413.3	3413.3	3413.3
2.5°	3349.6	3357.5	3368.1	3378.8	3392.0	3405.3	3413.3	3437.2	3431.8	3453.1	3453.1
5°	3312.4	3320.4	3333.6	3357.5	3386.7	3415.9	3437.2	3484.9	3511.5	3553.9	3569.9
7.5°	3331.0	3341.6	3357.5	3394.7	3439.8	3484.9	3508.8	3585.8	3638.9	3718.5	3763.6
10°	3392.0	3402.6	3429.2	3492.9	3551.3	3615.0	3644.2	3742.4	3827.3	3936.1	3999.8
12.5°	3461.0	3474.3	3527.4	3622.9	3723.8	3808.7	3848.5	3957.4	4045.0	4167.0	4267.9
15°	3532.7	3553.9	3636.2	3776.9	3920.2	4034.3	4076.8	4193.6	4281.2	4411.2	4525.4
17.5°	3699.9	3723.8	3816.7	3968.0	4164.4	4297.1	4334.3	4456.4	4522.7	4610.3	4729.7
20°	3909.6	3954.7	4068.8	4252.0	4467.0	4594.4	4620.9	4740.4	4735.0	4772.2	4875.7
22.5°	4169.7	4201.6	4326.3	4543.9	4785.5	4926.1	4987.2	5037.6	4971.3	4939.4	5005.8
25°	4440.4	4477.6	4613.0	4851.8	5122.6	5284.5	5334.9	5374.7	5268.5	5149.1	5157.1
27.5°	4790.8	4817.3	4950.0	5204.8	5475.6	5658.7	5703.8	5772.8	5632.2	5441.1	5388.0
30°	5207.5	5234.0	5374.7	5642.8	5910.8	6067.4	6136.4	6221.4	6067.4	5828.6	5767.5
32.5°	5695.9	5722.4	5902.9	6178.9	6399.2	6569.1	6635.4	6725.7	6603.6	6335.5	6266.5
35°	6279.8	6295.7	6508.0	6808.0	7041.5	7206.1	7251.2	7357.4	7222.0	6953.9	6916.8
37.5°	6956.6	6975.2	7206.1	7553.8	7792.6	7975.8	8047.4	8076.6	7912.1	7612.2	7583.0
40°	7699.8	7760.8	7986.4	8360.6	8628.7	8859.6	8923.3	8825.1	8594.2	8185.5	8132.4
42.5°	8474.8	8527.9	8780.0	9186.1	9496.6	9732.8	9735.5	9523.2	9130.4	8565.0	8485.4
45°	9119.7	9141.0	9467.4	9876.2	10258.4	10425.6	10441.5	10056.7	9464.8	8785.3	8615.4
47.5°	9563.0	9597.5	9881.5	10274.3	10696.3	10847.6	10815.7	10335.3	9624.0	8928.6	8647.3
50°	9568.3	9626.7	9934.6	10314.1	10722.9	10906.0	10860.9	10415.0	9714.3	8933.9	8570.3
52.5°	8721.6	8817.2	9318.8	9868.2	10494.6	10807.8	10818.4	10518.5	9679.8	8849.0	8501.3
55°	6579.7	6683.2	7314.9	8251.8	9462.1	10335.3	10486.6	10396.4	9640.0	8886.2	8623.4
57.5°	3482.3	3402.6	3753.0	4682.0	6202.8	7747.5	8190.8	8912.7	9196.7	8931.3	8849.0
60°	759.1	809.5	1077.6	1451.8	2420.6	3644.2	4076.8	5313.7	6784.1	7437.0	7909.4
62.5°	326.5	321.2	334.4	379.5	554.7	923.7	1128.0	1842.0	2906.3	3991.9	4727.1
65°	268.1	270.7	281.3	281.3	262.8	265.4	278.7	422.0	679.5	952.8	1279.3
67.5°	201.7	204.4	223.0	228.3	215.0	191.1	188.4	159.3	167.2	209.7	217.6
70°	127.4	127.4	138.0	143.3	143.3	132.7	130.1	114.1	111.5	127.4	143.3
72.5°	69.0	69.0	74.3	77.0	74.3	71.7	71.7	69.0	66.4	77.0	98.2
75°	29.2	29.2	31.9	31.9	29.2	29.2	29.2	29.2	29.2	34.5	53.1
77.5°	5.3	8.0	10.6	8.0	5.3	5.3	5.3	8.0	8.0	10.6	15.9
80°	2.7	2.7	5.3	2.7	0.0	0.0	0.0	0.0	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3413.3	3413.3	3413.3	3413.3	3413.3	3413.3	3413.3	3413.3	3413.3	3413.3	3413.3
2.5°	3471.7	3442.5	3453.1	3458.4	3450.4	3445.1	3415.9	3408.0	3394.7	3373.5	3368.1
5°	3588.4	3564.6	3561.9	3546.0	3508.8	3463.7	3408.0	3384.1	3357.5	3331.0	3325.7
7.5°	3784.8	3755.7	3737.1	3684.0	3599.1	3527.4	3434.5	3384.1	3349.6	3315.1	3307.1
10°	4037.0	4002.5	3949.4	3851.2	3737.1	3633.6	3524.7	3458.4	3405.3	3357.5	3354.9
12.5°	4305.1	4267.9	4172.4	4047.6	3909.6	3814.0	3676.0	3583.1	3503.5	3431.8	3423.9
15°	4586.4	4541.3	4411.2	4262.6	4135.2	4037.0	3885.7	3737.1	3615.0	3511.5	3500.9
17.5°	4801.4	4745.7	4591.7	4480.2	4376.7	4275.9	4106.0	3909.6	3747.7	3622.9	3593.7
20°	4936.8	4883.7	4737.7	4676.7	4628.9	4557.2	4355.5	4151.1	3970.6	3816.7	3790.2
22.5°	5066.8	5003.1	4875.7	4875.7	4912.9	4883.7	4666.0	4432.5	4220.1	4042.3	4002.5
25°	5212.8	5162.4	5072.1	5146.4	5239.3	5236.7	5013.7	4721.8	4477.6	4278.5	4238.7
27.5°	5425.1	5374.7	5342.8	5483.5	5600.3	5592.3	5348.2	5032.3	4774.9	4578.4	4541.3
30°	5799.4	5751.6	5717.1	5887.0	6035.6	5979.8	5711.8	5406.5	5146.4	4923.5	4896.9
32.5°	6298.3	6247.9	6202.8	6372.7	6505.4	6433.7	6178.9	5892.3	5592.3	5374.7	5321.6
35°	6953.9	6847.8	6802.6	7004.4	7060.1	6980.5	6736.3	6484.1	6165.6	5916.1	5881.6
37.5°	7630.7	7506.0	7474.1	7649.3	7739.6	7710.4	7423.7	7161.0	6815.9	6539.9	6500.1
40°	8209.4	8095.2	8039.5	8312.9	8517.2	8535.8	8278.4	7957.2	7551.1	7264.5	7192.8
42.5°	8549.1	8450.9	8437.6	8862.3	9196.7	9435.6	9127.7	8795.9	8368.6	8044.8	7986.4
45°	8626.1	8562.4	8673.8	9231.2	9751.4	10186.7	9923.9	9573.6	9111.8	8769.4	8713.6
47.5°	8618.1	8596.9	8795.9	9422.3	10080.5	10616.7	10486.6	10091.2	9645.3	9286.9	9233.9
50°	8504.0	8506.6	8838.4	9517.9	10213.3	10733.5	10603.4	10237.1	9839.0	9486.0	9443.5
52.5°	8458.8	8442.9	8758.8	9488.7	10348.6	10680.4	10388.4	9977.0	9533.8	9098.5	9034.8
55°	8618.1	8578.3	8769.4	9464.8	10364.5	10651.2	9881.5	8989.7	8082.0	7567.0	7524.6
57.5°	8857.0	8814.5	8904.7	9289.6	9533.8	8857.0	7272.4	5833.9	4899.6	4504.1	4331.6
60°	7909.4	7880.2	7811.2	7346.7	6301.0	4753.6	3238.1	2064.9	1483.7	1199.7	1199.7
62.5°	4907.6	4867.8	4493.5	3338.9	2425.9	1404.1	772.4	483.1	366.3	342.4	339.7
65°	1377.5	1369.6	1133.3	801.6	509.6	315.8	278.7	284.0	278.7	270.7	268.1
67.5°	207.0	228.3	228.3	185.8	177.8	199.1	233.6	249.5	236.2	223.0	217.6
70°	132.7	143.3	138.0	119.4	127.4	148.6	167.2	169.9	161.9	148.6	146.0
72.5°	92.9	103.5	84.9	77.0	79.6	87.6	95.6	95.6	92.9	87.6	82.3
75°	55.7	55.7	39.8	37.2	37.2	39.8	39.8	45.1	45.1	42.5	39.8
77.5°	18.6	21.2	13.3	10.6	10.6	10.6	13.3	15.9	15.9	13.3	10.6
80°	2.7	5.3	2.7	2.7	2.7	2.7	2.7	2.7	5.3	5.3	2.7
82.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)