

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: P638182

Luminaire Tested: GWS-SA4E-735-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-5NQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27362.8 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

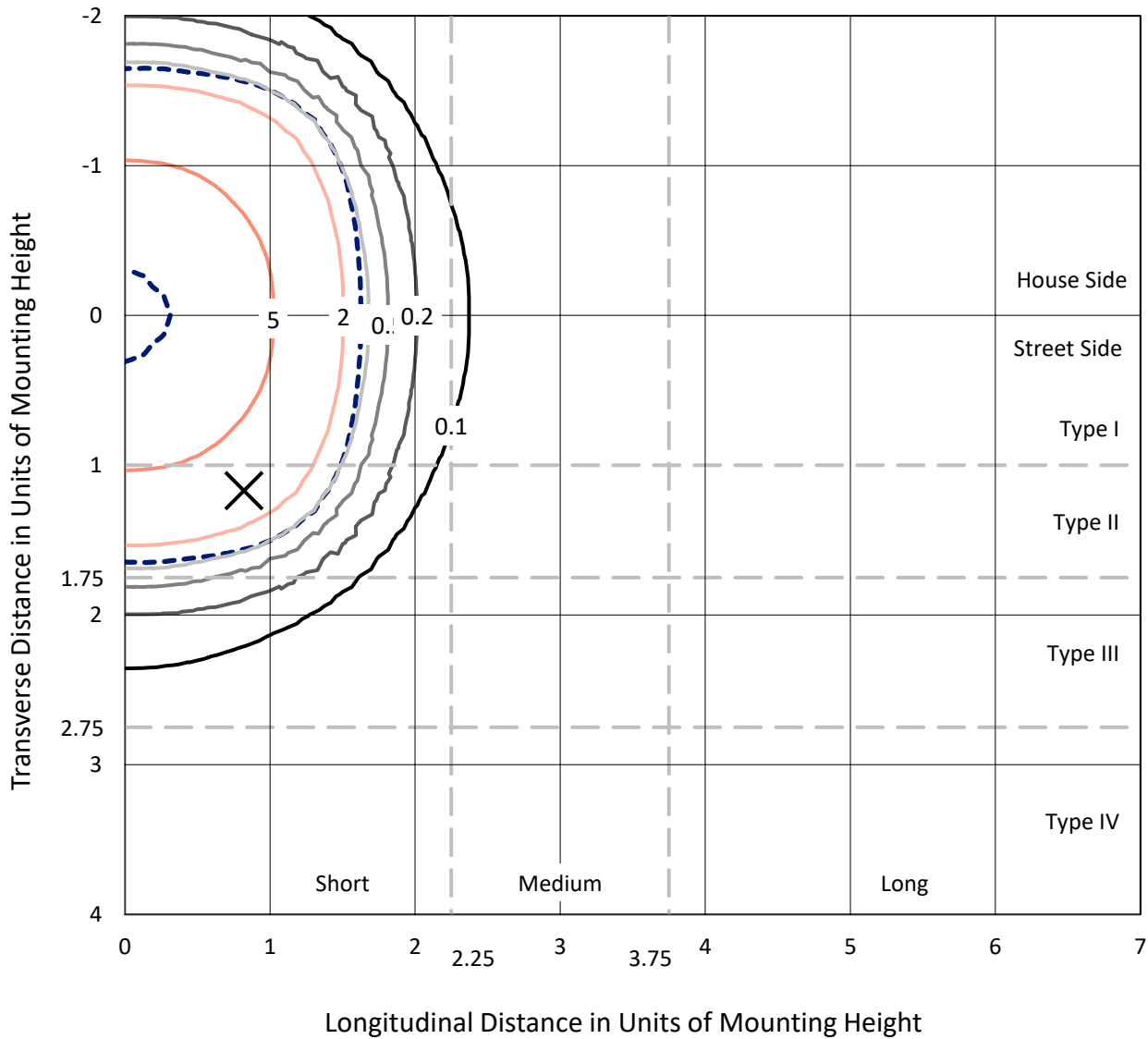
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

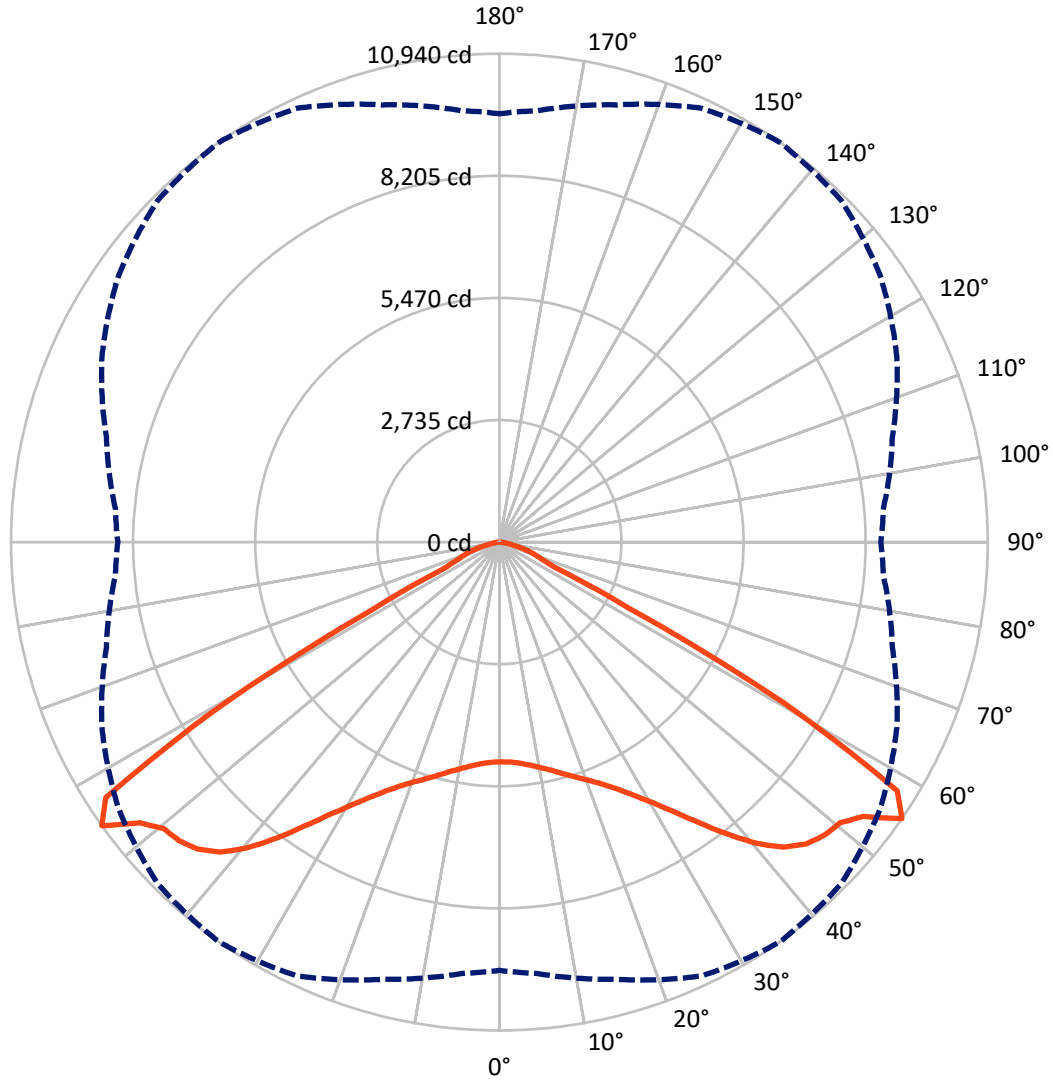
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13681.4	0.0	13681.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13681.4	0.0	13681.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	27362.8	0.0	27362.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.1	1.8
10°-20°	1528.7	5.6
20°-30°	2829.3	10.3
30°-40°	4732.8	17.3
40°-50°	7212.0	26.4
50°-60°	8078.9	29.5
60°-70°	1911.5	7.0
70°-80°	515.4	1.9
80°-90°	74.2	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°	27362.8	100.0
0°-180°	27362.8	100.0

Coefficient of Utilization



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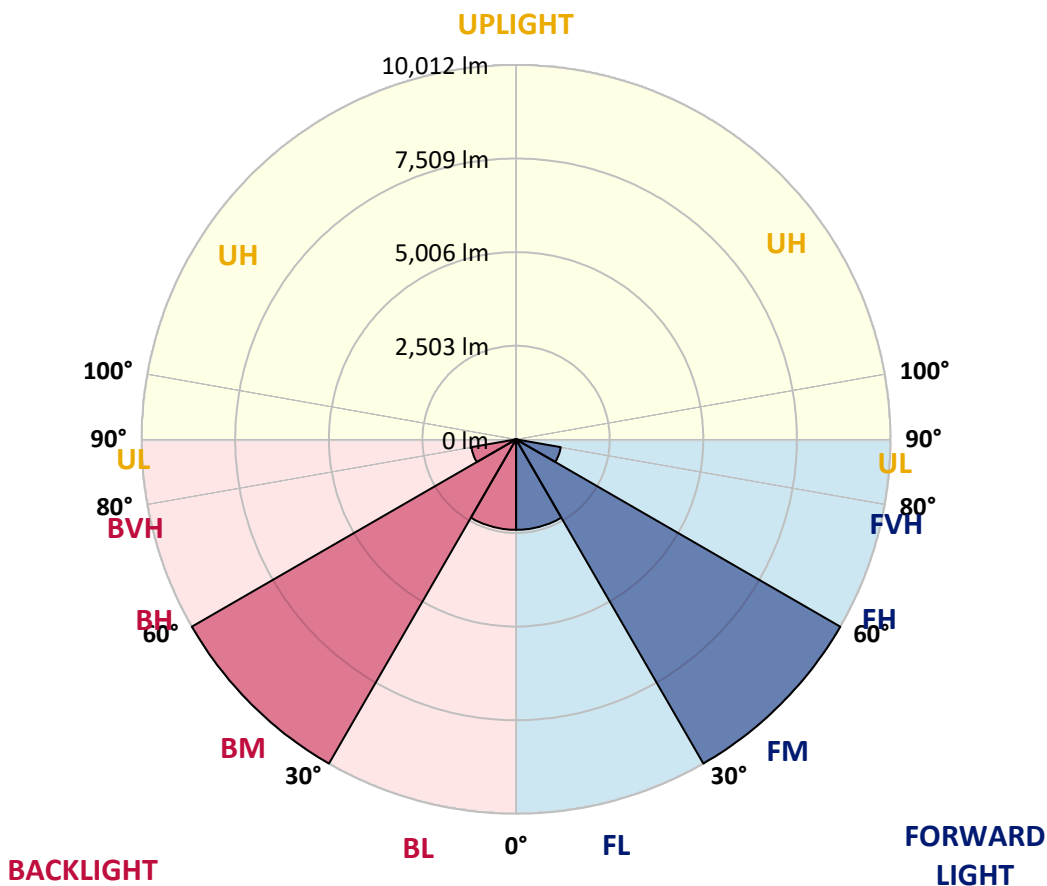
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2419.0	8.8			
FM (30°-60°)	10011.8	36.6			
FH (60°-80°)	1213.5	4.4			G1/1800
FVH (80°-90°)	37.1	0.1			G1/100
BL (0°-30°)	2419.0	8.8	B3/2500		
BM (30°-60°)	10011.8	36.6	B5		
BH (60°-80°)	1213.5	4.4	B3/2500		G1/1800
BVH (80°-90°)	37.1	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4922.6	4922.6	4922.6	4922.6	4922.6	4922.6	4922.6	4922.6	4922.6	4922.6	4922.6
2.5°	4911.8	4911.8	4920.5	4931.3	4933.5	4955.1	4950.8	4942.1	4937.8	4929.1	4948.6
5°	4965.9	4968.1	4974.6	4981.1	4976.7	4994.0	4987.6	4976.7	4970.2	4959.4	4978.9
7.5°	5037.3	5037.3	5043.8	5052.5	5048.1	5074.1	5061.1	5046.0	5035.2	5022.2	5039.5
10°	5102.2	5106.6	5113.1	5130.4	5139.0	5167.2	5158.5	5136.9	5119.5	5104.4	5123.9
12.5°	5199.6	5203.9	5210.4	5234.2	5249.4	5277.5	5264.5	5234.2	5208.3	5186.6	5208.3
15°	5325.1	5320.8	5338.1	5368.4	5387.9	5413.8	5398.7	5346.7	5312.1	5284.0	5305.6
17.5°	5452.8	5450.6	5467.9	5506.9	5535.0	5569.6	5543.7	5483.1	5446.3	5411.7	5433.3
20°	5591.3	5597.7	5615.1	5651.8	5693.0	5738.4	5716.8	5651.8	5610.7	5571.8	5589.1
22.5°	5762.2	5764.4	5783.8	5831.4	5885.5	5928.8	5915.8	5835.8	5783.8	5742.7	5764.4
25°	5967.8	5965.6	5991.6	6047.8	6123.5	6166.8	6138.7	6050.0	5993.7	5946.1	5963.4
27.5°	6203.6	6201.4	6240.4	6314.0	6422.2	6482.7	6424.3	6314.0	6236.1	6169.0	6184.1
30°	6500.1	6493.6	6536.8	6636.4	6777.0	6878.7	6792.2	6638.5	6536.8	6465.4	6480.6
32.5°	6828.9	6837.6	6891.7	7025.9	7203.3	7335.3	7205.4	7034.5	6898.2	6794.3	6811.6
35°	7190.3	7190.3	7300.7	7467.3	7720.4	7895.7	7694.5	7447.8	7266.0	7123.2	7127.6
37.5°	7592.8	7597.1	7742.1	7971.4	8302.5	8508.1	8235.4	7930.3	7709.6	7556.0	7547.3
40°	8084.0	8096.9	8246.2	8501.6	8873.7	9062.0	8769.9	8471.3	8246.2	8064.5	8047.2
42.5°	8637.9	8642.2	8800.2	9029.5	9343.3	9455.8	9226.4	8981.9	8798.0	8633.6	8616.2
45°	9165.8	9155.0	9291.3	9462.3	9644.0	9654.9	9527.2	9427.7	9267.5	9126.9	9100.9
47.5°	9577.0	9568.3	9691.7	9784.7	9806.3	9700.3	9741.4	9756.6	9570.5	9380.1	9330.3
50°	9828.0	9845.3	9962.1	10014.1	9886.4	9713.3	9869.1	9830.1	9564.0	9315.2	9235.1
52.5°	9979.4	10005.4	10208.8	10340.8	10208.8	10044.4	10066.0	9836.6	9453.6	9124.7	9020.9
55°	9596.4	9700.3	10139.6	10723.8	10940.2	10825.5	10414.4	9823.6	9113.9	8635.7	8547.0
57.5°	7112.4	7276.9	7928.2	9194.0	10509.6	10927.2	9726.3	8235.4	7160.0	6545.5	6493.6
60°	3630.9	3814.8	4336.3	5636.7	7328.8	7917.3	6774.9	5273.2	4191.3	3693.6	3637.3
62.5°	1482.2	1512.5	1683.4	2185.4	3239.2	3736.9	3282.5	2304.4	1731.0	1594.7	1596.9
65°	1166.3	1172.8	1164.1	1194.4	1356.7	1506.0	1391.3	1222.5	1192.3	1207.4	1196.6
67.5°	1017.0	1019.1	1012.7	1012.7	1019.1	1012.7	1025.6	1032.1	1036.5	1053.8	1043.0
70°	850.4	852.5	852.5	856.9	854.7	843.9	863.4	872.0	874.2	885.0	878.5
72.5°	657.8	664.3	668.6	670.8	668.6	662.1	672.9	688.1	685.9	696.7	685.9
75°	445.7	454.4	458.7	467.4	465.2	465.2	478.2	484.7	478.2	486.9	478.2
77.5°	253.2	259.7	272.6	281.3	289.9	296.4	305.1	309.4	307.3	311.6	307.3
80°	147.1	149.3	160.1	164.4	175.3	186.1	194.7	199.1	201.2	203.4	201.2
82.5°	84.4	86.6	90.9	95.2	103.9	112.5	121.2	127.7	127.7	129.8	127.7
85°	41.1	41.1	43.3	45.4	49.8	56.3	62.8	69.2	71.4	71.4	71.4
87.5°	6.5	6.5	8.7	8.7	10.8	13.0	17.3	21.6	23.8	23.8	23.8
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)