

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: P640712

Luminaire Tested: GWS-SA5E-740-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640712
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-SA5E-740-U-5NQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34032.7 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

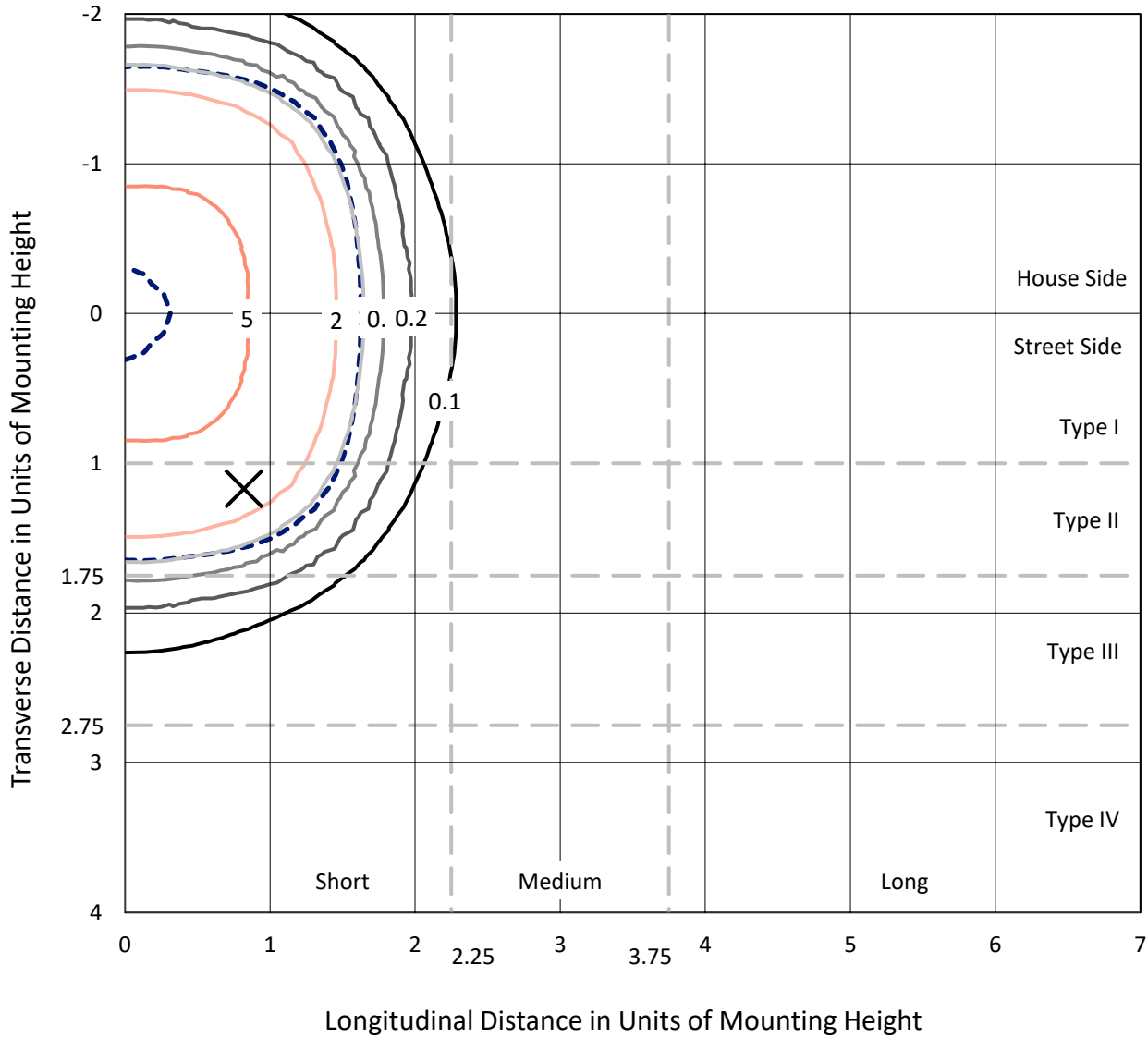
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

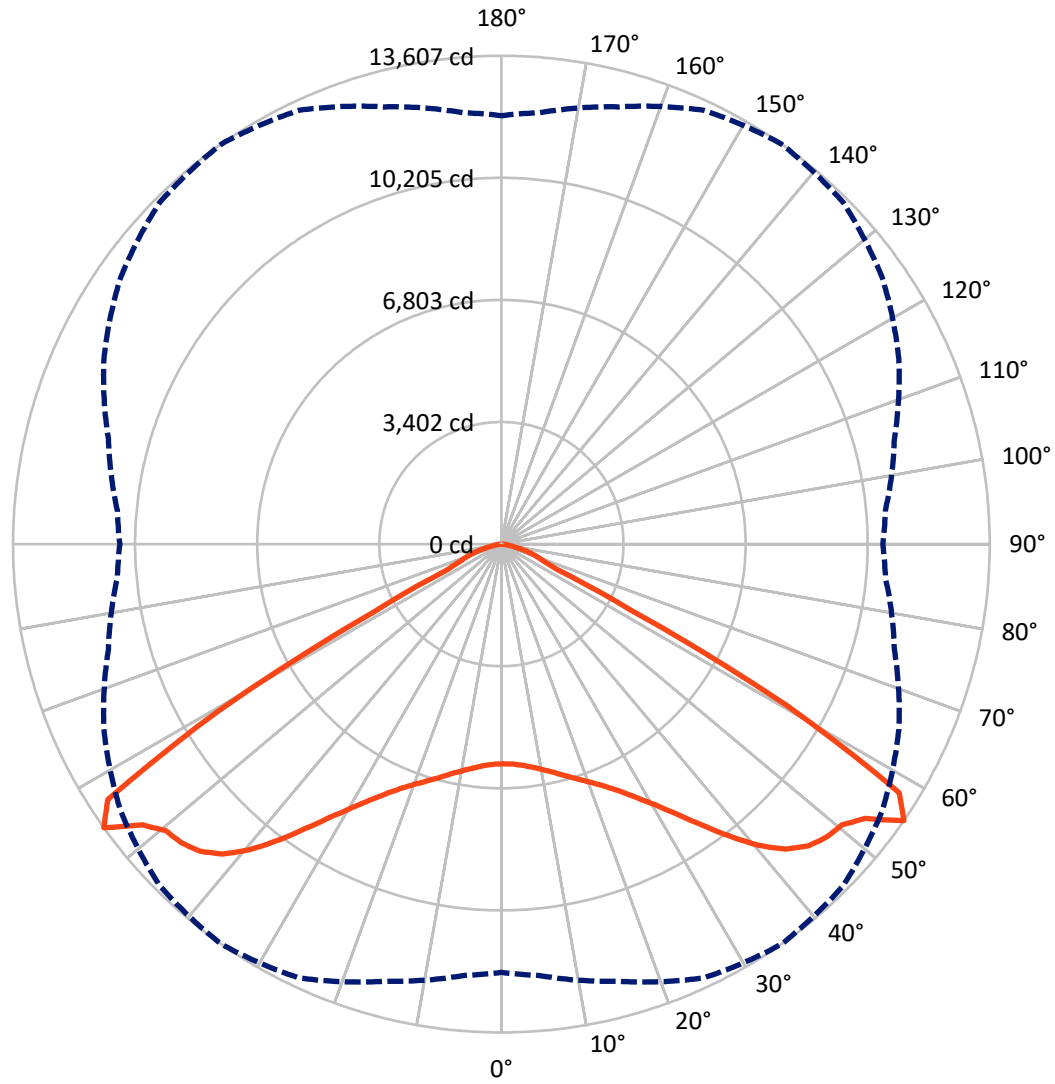
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 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	17016.4	0.0	17016.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17016.4	0.0	17016.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	34032.7	0.0	34032.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.2	1.8
10°-20°	1901.3	5.6
20°-30°	3518.9	10.3
30°-40°	5886.4	17.3
40°-50°	8969.9	26.4
50°-60°	10048.2	29.5
60°-70°	2377.5	7.0
70°-80°	641.0	1.9
80°-90°	92.2	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°	34032.7	100.0
0°-180°	34032.7	100.0

Coefficient of Utilization



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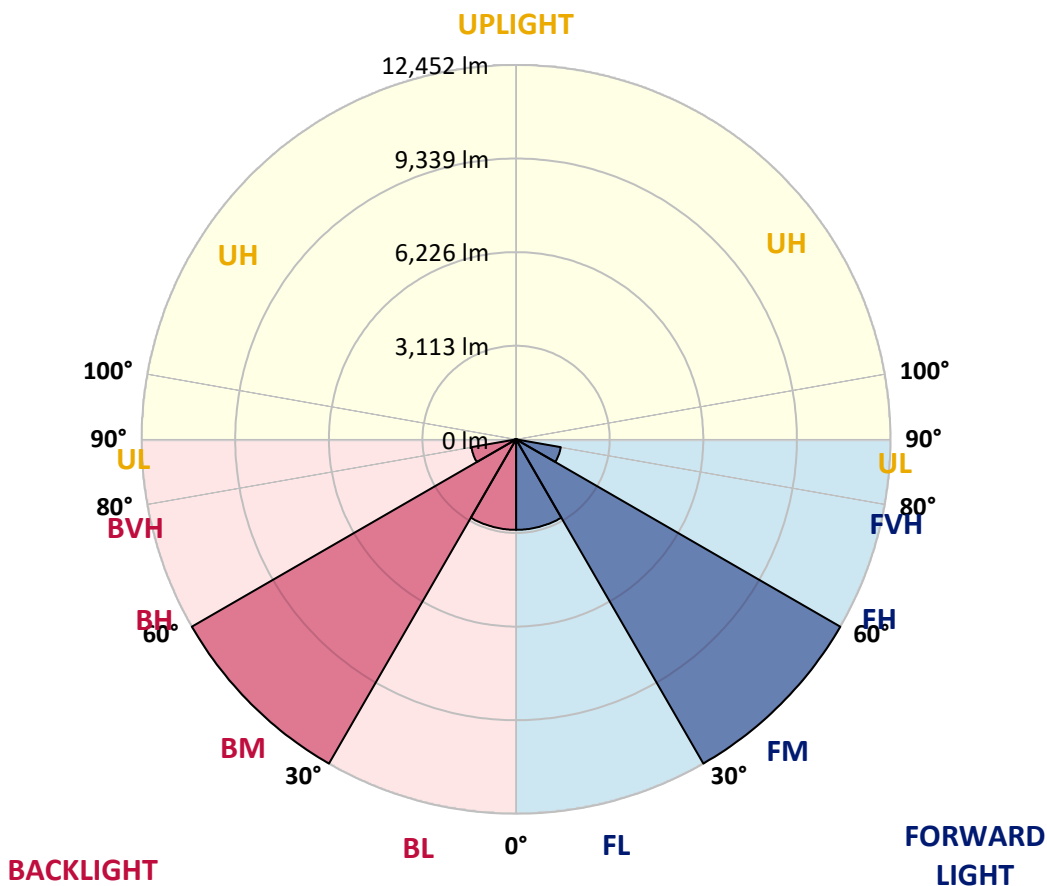
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3008.7	8.8			
FM (30°-60°)	12452.3	36.6			
FH (60°-80°)	1509.2	4.4			G1/1800
FVH (80°-90°)	46.1	0.1			G1/100
BL (0°-30°)	3008.7	8.8	B4/5000		
BM (30°-60°)	12452.3	36.6	B5		
BH (60°-80°)	1509.2	4.4	B3/2500		G1/1800
BVH (80°-90°)	46.1	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°	6122.6	6122.6	6122.6	6122.6	6122.6	6122.6	6122.6	6122.6	6122.6	6122.6	6122.6
2.5°	6109.1	6109.1	6119.9	6133.3	6136.0	6162.9	6157.6	6146.8	6141.4	6130.6	6154.9
5°	6176.4	6179.1	6187.2	6195.2	6189.9	6211.4	6203.3	6189.9	6181.8	6168.3	6192.5
7.5°	6265.2	6265.2	6273.3	6284.0	6278.7	6311.0	6294.8	6276.0	6262.5	6246.4	6267.9
10°	6345.9	6351.3	6359.4	6380.9	6391.7	6426.7	6415.9	6389.0	6367.5	6348.6	6372.9
12.5°	6467.1	6472.4	6480.5	6510.1	6529.0	6563.9	6547.8	6510.1	6477.8	6450.9	6477.8
15°	6623.1	6617.8	6639.3	6677.0	6701.2	6733.5	6714.6	6650.1	6607.0	6572.0	6598.9
17.5°	6781.9	6779.2	6800.8	6849.2	6884.2	6927.3	6895.0	6819.6	6773.9	6730.8	6757.7
20°	6954.2	6962.2	6983.8	7029.5	7080.7	7137.2	7110.3	7029.5	6978.4	6929.9	6951.5
22.5°	7166.8	7169.5	7193.7	7252.9	7320.2	7374.0	7357.9	7258.3	7193.7	7142.6	7169.5
25°	7422.4	7419.8	7452.0	7522.0	7616.2	7670.0	7635.1	7524.7	7454.7	7395.5	7417.1
27.5°	7715.8	7713.1	7761.5	7853.0	7987.6	8063.0	7990.3	7853.0	7756.2	7672.7	7691.6
30°	8084.5	8076.4	8130.2	8254.0	8429.0	8555.5	8447.8	8256.7	8130.2	8041.4	8060.3
32.5°	8493.6	8504.3	8571.6	8738.5	8959.1	9123.3	8961.8	8749.2	8579.7	8450.5	8472.0
35°	8943.0	8943.0	9080.2	9287.5	9602.3	9820.3	9570.1	9263.3	9037.2	8859.6	8864.9
37.5°	9443.6	9448.9	9629.3	9914.5	10326.3	10582.0	10242.9	9863.4	9588.9	9397.8	9387.0
40°	10054.5	10070.6	10256.3	10573.9	11036.8	11270.9	10907.6	10536.2	10256.3	10030.3	10008.7
42.5°	10743.4	10748.8	10945.3	11230.6	11620.8	11760.7	11475.5	11171.3	10942.6	10738.1	10716.5
45°	11400.1	11386.6	11556.2	11768.8	11994.9	12008.3	11849.5	11725.7	11526.6	11351.7	11319.4
47.5°	11911.4	11900.7	12054.1	12169.8	12196.7	12064.8	12116.0	12134.8	11903.4	11666.5	11604.6
50°	12223.6	12245.1	12390.5	12455.1	12296.3	12081.0	12274.8	12226.3	11895.3	11585.8	11486.2
52.5°	12412.0	12444.3	12697.3	12861.4	12697.3	12492.7	12519.7	12234.4	11758.0	11349.0	11219.8
55°	11935.7	12064.8	12611.2	13337.8	13606.9	13464.3	12952.9	12218.2	11335.5	10740.7	10630.4
57.5°	8846.1	9050.6	9860.7	11435.1	13071.4	13590.8	12097.1	10242.9	8905.3	8141.0	8076.4
60°	4515.9	4744.7	5393.2	7010.7	9115.2	9847.3	8426.3	6558.6	5212.9	4593.9	4524.0
62.5°	1843.5	1881.2	2093.8	2718.2	4028.8	4647.8	4082.6	2866.2	2153.0	1983.4	1986.1
65°	1450.6	1458.7	1447.9	1485.6	1687.4	1873.1	1730.5	1520.6	1482.9	1501.7	1488.3
67.5°	1264.9	1267.6	1259.5	1259.5	1267.6	1259.5	1275.6	1283.7	1289.1	1310.6	1297.2
70°	1057.7	1060.3	1060.3	1065.7	1063.0	1049.6	1073.8	1084.6	1087.3	1100.7	1092.6
72.5°	818.1	826.2	831.6	834.3	831.6	823.5	837.0	855.8	853.1	866.6	853.1
75°	554.4	565.2	570.5	581.3	578.6	578.6	594.8	602.8	594.8	605.5	594.8
77.5°	314.9	322.9	339.1	349.9	360.6	368.7	379.5	384.8	382.2	387.5	382.2
80°	183.0	185.7	199.2	204.5	218.0	231.4	242.2	247.6	250.3	253.0	250.3
82.5°	105.0	107.6	113.0	118.4	129.2	139.9	150.7	158.8	158.8	161.5	158.8
85°	51.1	51.1	53.8	56.5	61.9	70.0	78.0	86.1	88.8	88.8	88.8
87.5°	8.1	8.1	10.8	10.8	13.5	16.1	21.5	26.9	29.6	29.6	29.6
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)