

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: P643191

Luminaire Tested: GWS-SA6E-740-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643191  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-740-U-5WQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

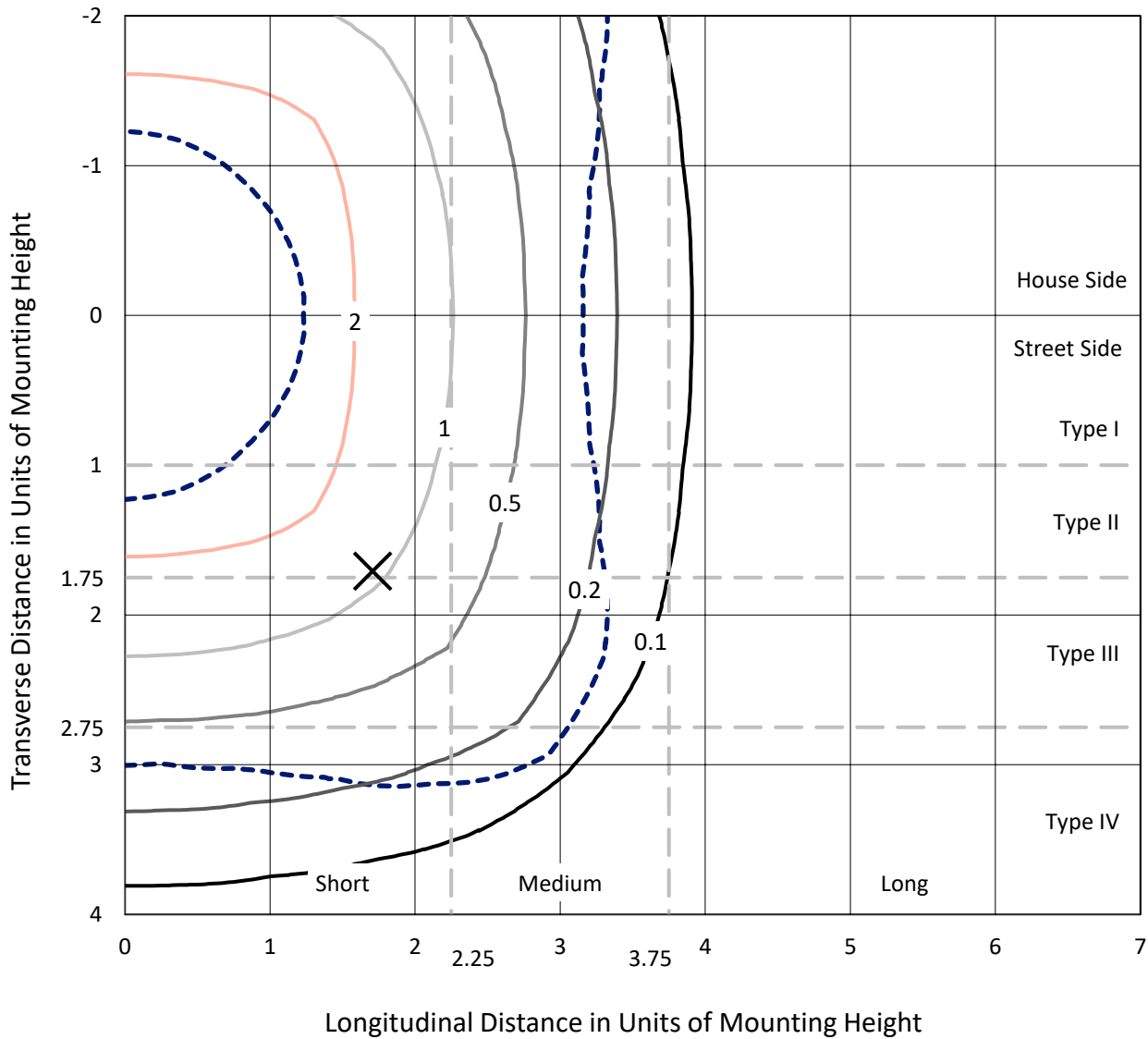
Lumens per Lamp: N/A  
Luminaire Lumens: 45382.3 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

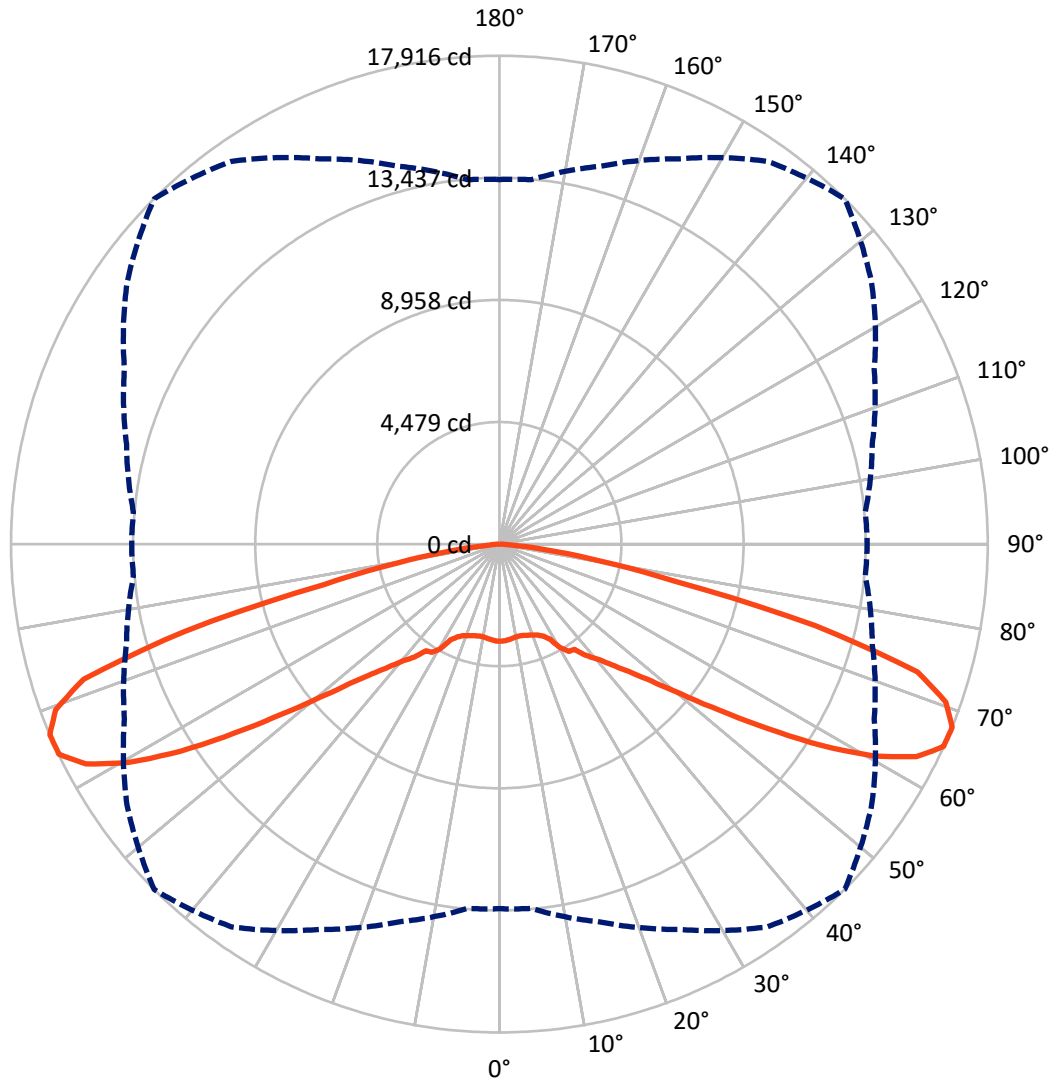
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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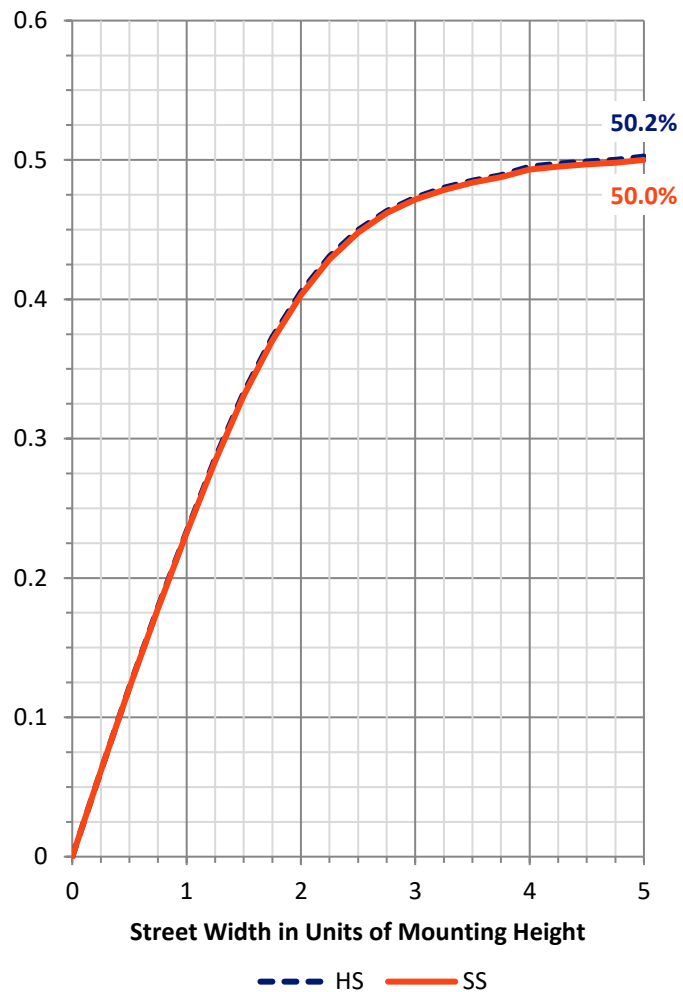
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22691.2	0.0	22691.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22691.2	0.0	22691.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	45382.3	0.0	45382.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.1	0.7
10°-20°	991.6	2.2
20°-30°	1778.8	3.9
30°-40°	3005.0	6.6
40°-50°	5279.7	11.6
50°-60°	10184.7	22.4
60°-70°	14776.7	32.6
70°-80°	8454.6	18.6
80°-90°	577.0	1.3
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°	45382.3	100.0
0°-180°	45382.3	100.0

**Coefficient of Utilization**



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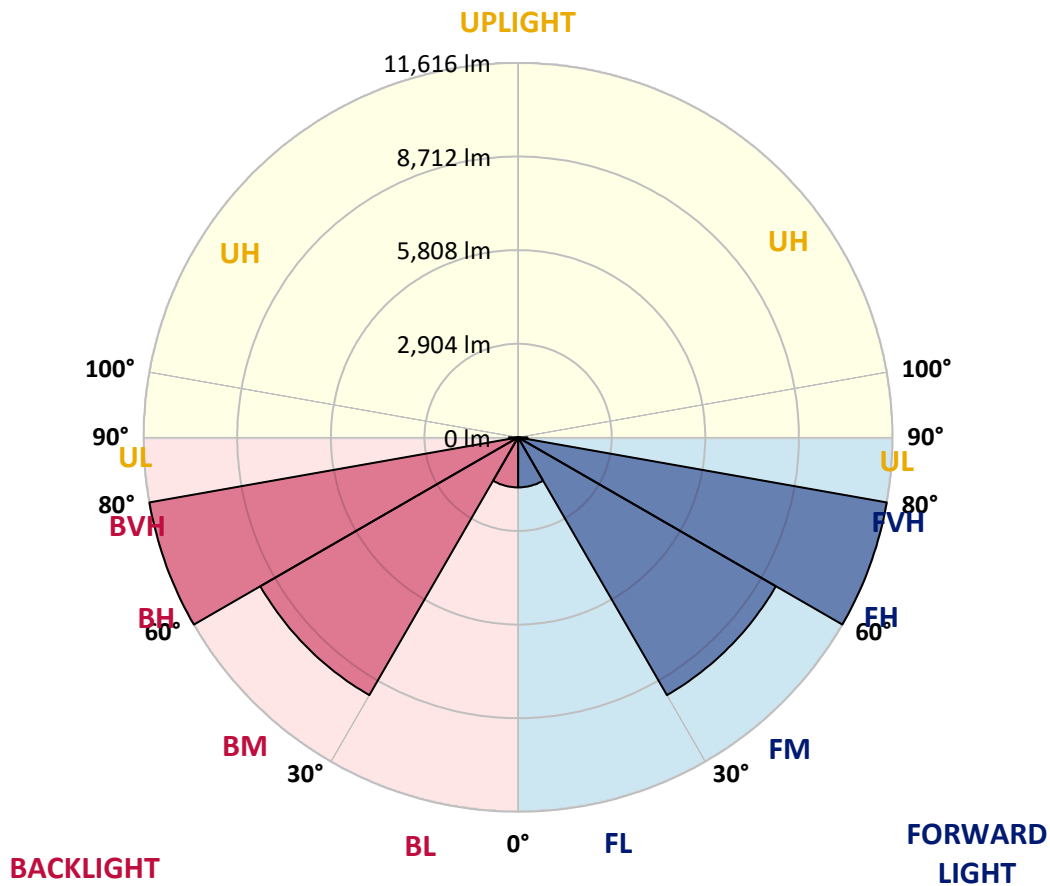
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1552.3	3.4			
FM (30°-60°)	9234.7	20.3			
FH (60°-80°)	11615.6	25.6			G4/12000
FVH (80°-90°)	288.5	0.6			G3/500
BL (0°-30°)	1552.3	3.4	B3/2500		
BM (30°-60°)	9234.7	20.3	B5		
BH (60°-80°)	11615.6	25.6	B5		G4/12000
BVH (80°-90°)	288.5	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3558.9	3558.9	3558.9	3558.9	3558.9	3558.9	3558.9	3558.9	3558.9	3558.9	3558.9
2.5°	3530.0	3533.2	3539.6	3539.6	3546.1	3555.7	3558.9	3552.5	3555.7	3539.6	3555.7
5°	3520.4	3523.6	3526.8	3520.4	3520.4	3523.6	3523.6	3517.2	3520.4	3504.3	3520.4
7.5°	3497.9	3501.1	3501.1	3491.5	3481.9	3488.3	3488.3	3481.9	3485.1	3469.0	3488.3
10°	3478.7	3478.7	3475.5	3456.2	3446.6	3456.2	3459.4	3462.6	3475.5	3462.6	3485.1
12.5°	3491.5	3491.5	3481.9	3456.2	3440.2	3446.6	3453.0	3459.4	3481.9	3478.7	3504.3
15°	3526.8	3530.0	3504.3	3475.5	3465.8	3475.5	3469.0	3465.8	3494.7	3504.3	3533.2
17.5°	3555.7	3555.7	3523.6	3494.7	3497.9	3514.0	3501.1	3485.1	3514.0	3533.2	3565.3
20°	3581.4	3578.2	3542.9	3523.6	3536.4	3558.9	3549.3	3526.8	3546.1	3568.5	3597.4
22.5°	3645.5	3642.3	3603.8	3594.2	3607.0	3629.5	3619.9	3600.6	3623.1	3655.2	3690.5
25°	3828.5	3822.0	3764.3	3732.2	3725.8	3741.8	3738.6	3732.2	3767.5	3806.0	3847.7
27.5°	4072.4	4069.1	4027.4	3995.3	3953.6	3940.8	3950.4	3979.3	4030.6	4059.5	4094.8
30°	4194.3	4194.3	4187.9	4239.2	4329.1	4415.7	4348.3	4239.2	4194.3	4181.5	4216.8
32.5°	4354.8	4370.8	4348.3	4406.1	4556.9	4685.3	4556.9	4380.4	4348.3	4348.3	4386.8
35°	4723.8	4730.2	4694.9	4685.3	4733.4	4749.5	4688.5	4624.3	4659.6	4666.0	4714.2
37.5°	5019.0	5019.0	5003.0	5028.7	5128.2	5189.1	5089.6	4974.1	4983.7	4990.2	5051.1
40°	5474.7	5487.6	5449.1	5445.9	5484.4	5538.9	5433.0	5359.2	5410.6	5426.6	5519.7
42.5°	6042.7	6042.7	5985.0	5968.9	5994.6	6052.4	5952.9	5904.8	5972.1	5985.0	6039.5
45°	6719.9	6735.9	6658.9	6630.0	6642.8	6662.1	6591.5	6569.0	6633.2	6662.1	6758.4
47.5°	7544.6	7560.7	7493.3	7490.1	7477.2	7490.1	7422.7	7409.8	7461.2	7438.7	7541.4
50°	8561.9	8590.8	8533.0	8613.2	8603.6	8642.1	8549.1	8481.7	8481.7	8420.7	8478.5
52.5°	9701.1	9758.9	9787.8	9922.6	10025.2	10121.5	9967.5	9861.6	9707.5	9582.4	9739.6
55°	10943.1	10927.0	11109.9	11405.2	11706.8	11934.7	11633.0	11299.3	11049.0	10789.0	10850.0
57.5°	12030.9	12085.5	12326.2	12865.3	13462.2	13943.6	13401.2	12759.4	12191.4	11819.1	11870.5
60°	12935.9	12980.8	13301.7	14078.3	15121.3	15785.6	14925.6	13866.5	13041.8	12528.4	12582.9
62.5°	13770.3	13812.0	14136.1	14992.9	16308.7	17175.1	16064.8	14617.5	13699.7	13183.0	13215.1
65°	14251.6	14277.3	14720.2	15621.9	17008.3	17903.6	16652.1	15159.8	14258.1	13731.8	13751.0
67.5°	13375.6	13417.3	14351.1	15596.3	17143.0	17916.4	16677.7	15175.9	14161.8	13475.0	13491.1
70°	10551.5	10516.2	11629.8	13770.3	16369.7	17377.3	15936.4	14036.6	12470.6	11511.1	11495.0
72.5°	8045.2	8054.9	8674.2	10140.8	13346.7	16035.9	14062.3	11302.5	9614.5	8886.0	8857.1
75°	5834.2	5924.0	6427.8	7502.9	9335.3	11986.0	10586.8	8375.8	7246.2	6809.7	6745.5
77.5°	2628.3	2743.8	3446.6	4711.0	6241.7	6623.6	6649.3	5686.5	4290.6	3565.3	3453.0
80°	767.0	821.5	1055.8	1806.7	2907.5	3757.9	2984.5	2509.5	1562.8	1225.9	1168.1
82.5°	324.1	369.0	452.5	500.6	844.0	1742.5	1084.7	690.0	641.8	519.9	474.9
85°	138.0	147.6	189.3	202.2	272.8	372.3	343.4	311.3	298.4	231.1	211.8
87.5°	57.8	57.8	57.8	51.3	48.1	51.3	70.6	89.9	118.7	93.1	86.6
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)