

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: P633783

Luminaire Tested: GWS-SA2F-740-U-5NQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633783  
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-SA2F-740-U-5NQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16955.8 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 124.5  
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

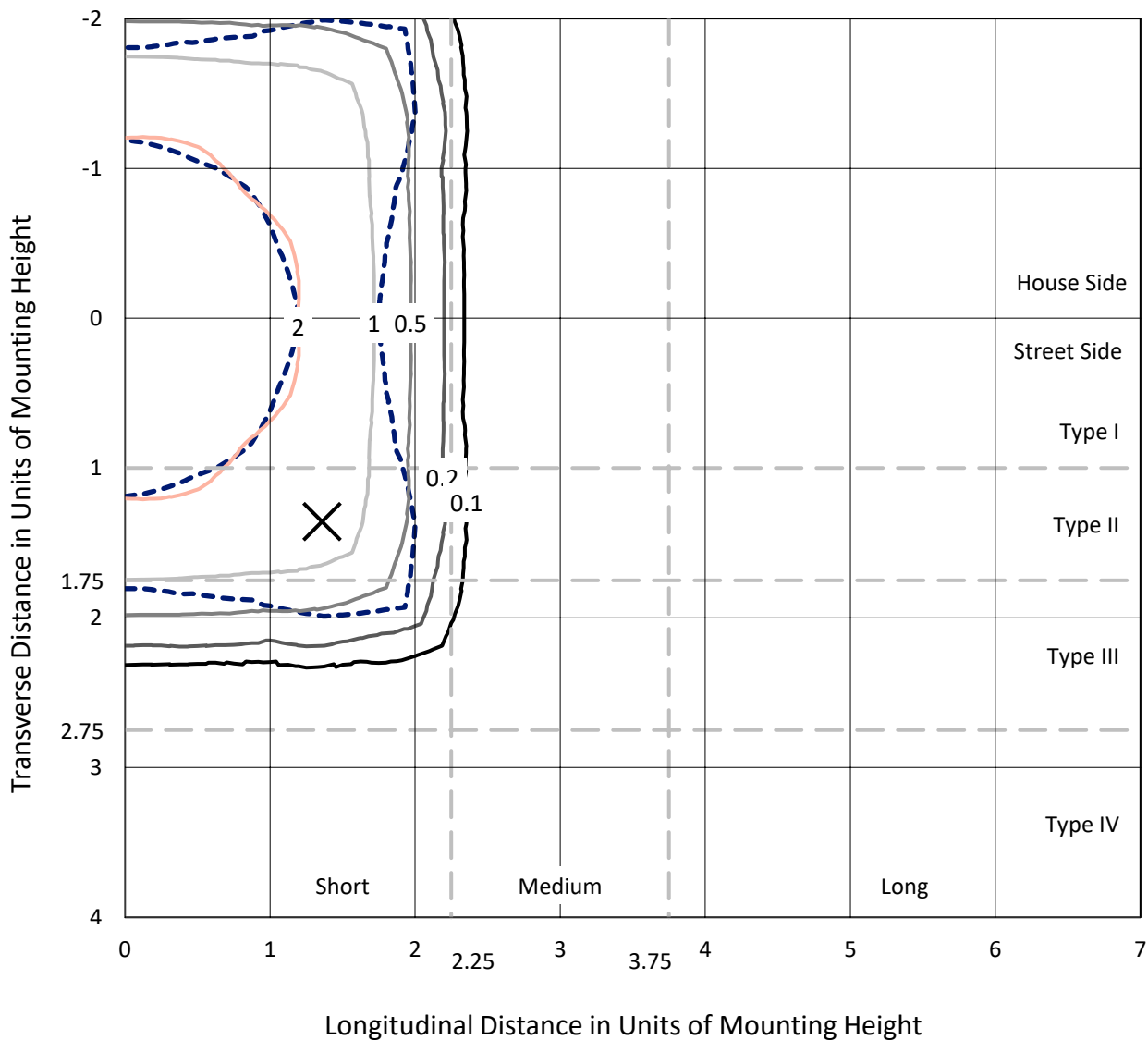


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### Iso-Footcandle Lines of Horizontal Illumination

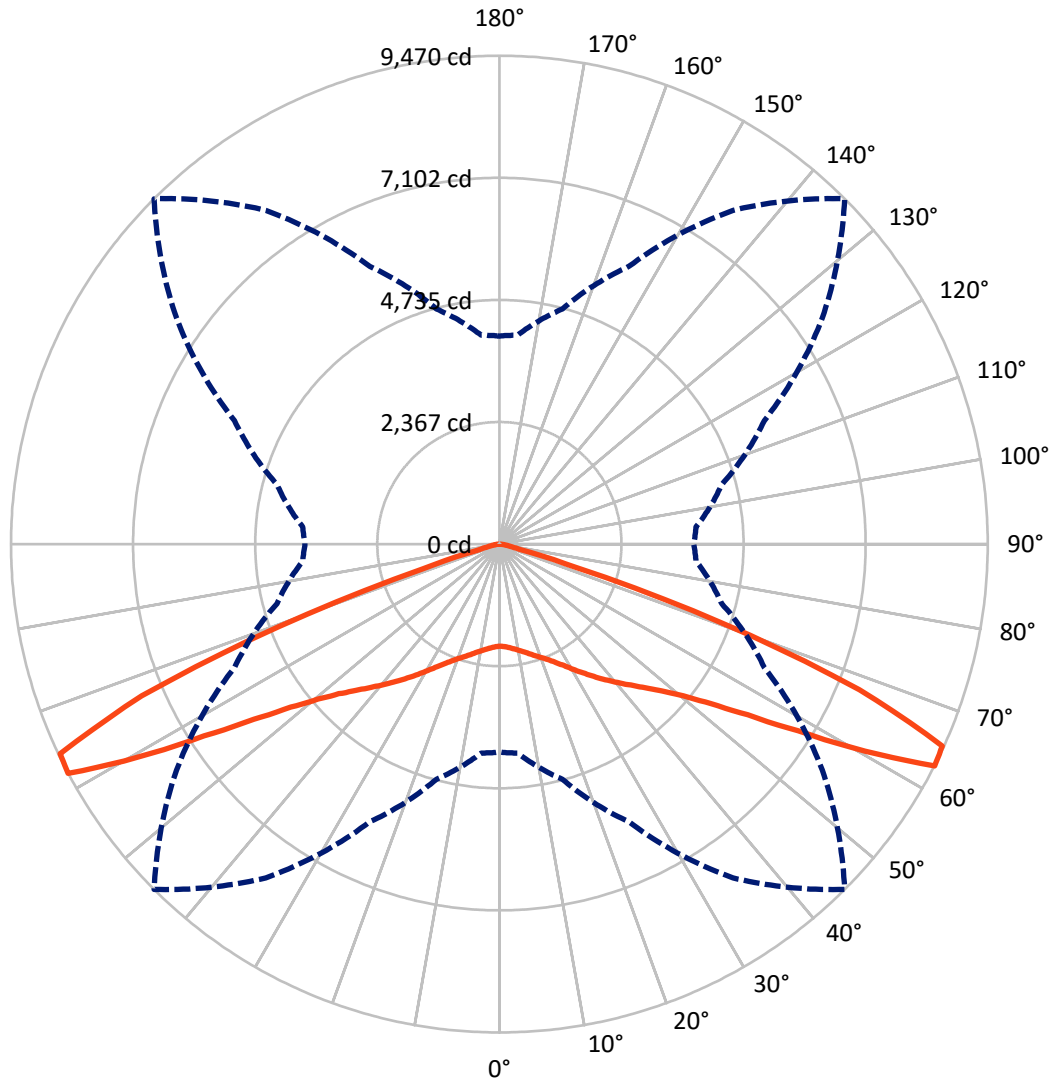
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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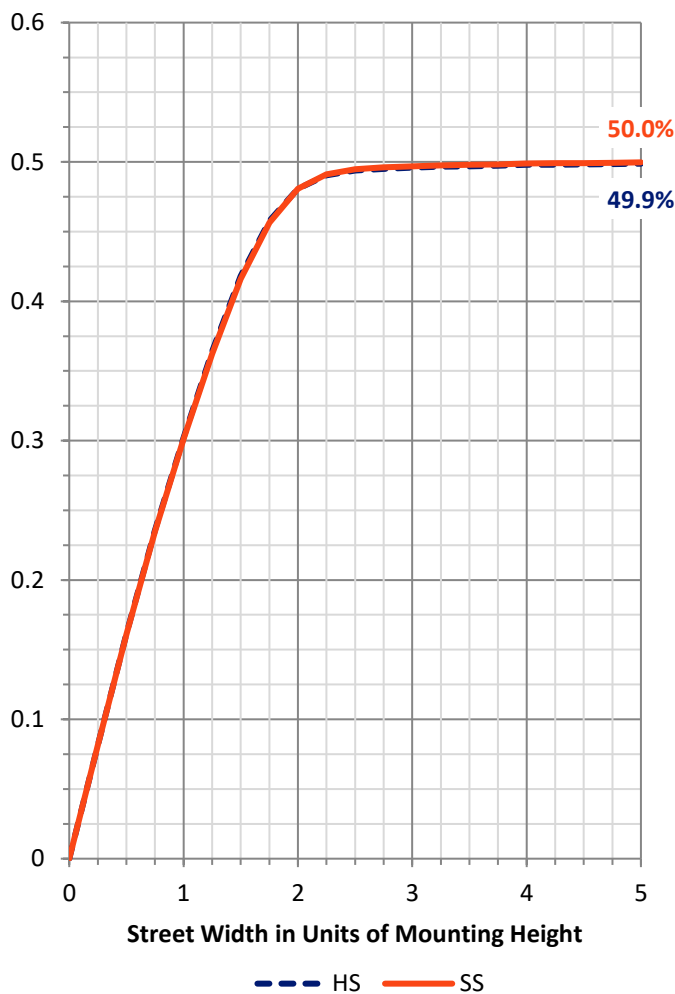
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8477.9	0.0	8477.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8477.9	0.0	8477.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16955.8	0.0	16955.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.1	1.1
10°-20°	625.9	3.7
20°-30°	1184.1	7.0
30°-40°	1993.0	11.8
40°-50°	3184.2	18.8
50°-60°	5132.8	30.3
60°-70°	4187.8	24.7
70°-80°	406.7	2.4
80°-90°	47.3	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°	16955.8	100.0
0°-180°	16955.8	100.0

**Coefficient of Utilization**



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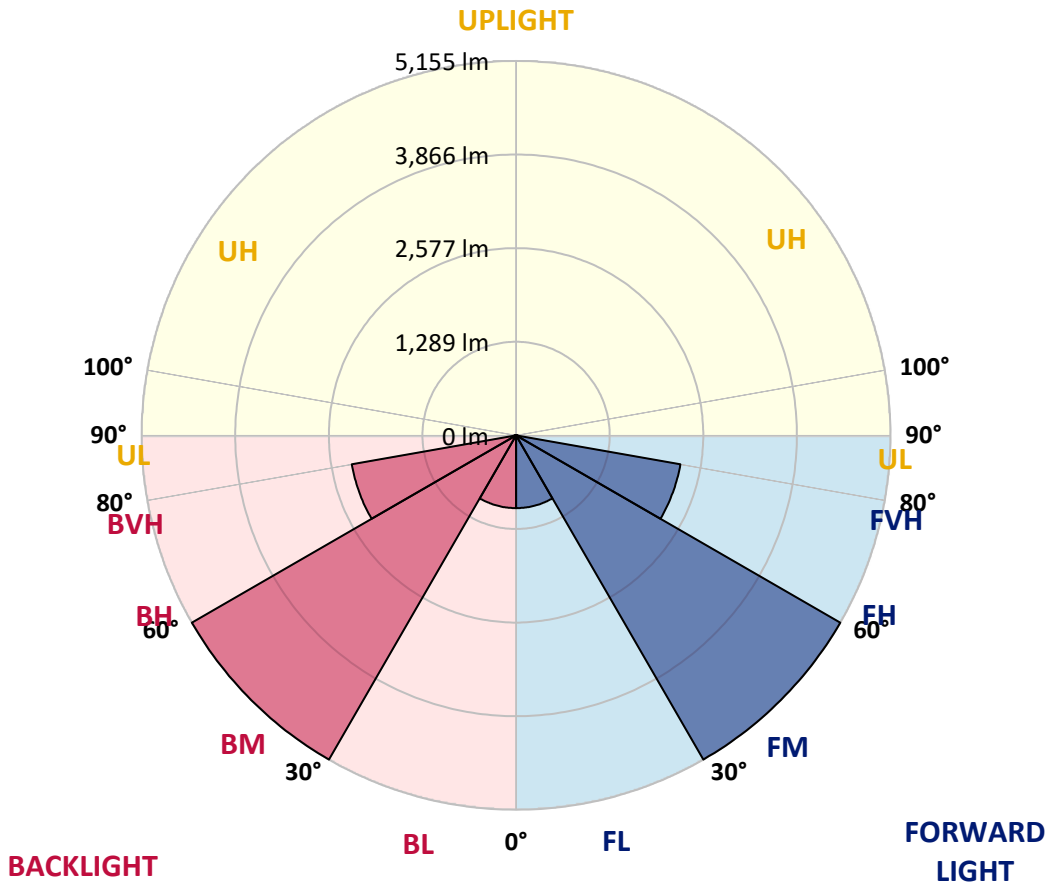
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1002.0	5.9			
FM (30°-60°)	5155.0	30.4			
FH (60°-80°)	2297.2	13.5			G2/5000
FVH (80°-90°)	23.7	0.1			G1/100
BL (0°-30°)	1002.0	5.9	B3/2500		
BM (30°-60°)	5155.0	30.4	B4/8500		
BH (60°-80°)	2297.2	13.5	B3/2500		G2/5000
BVH (80°-90°)	23.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1978.1	1978.1	1978.1	1978.1	1978.1	1978.1	1978.1	1978.1	1978.1	1978.1	1978.1
2.5°	1975.8	1975.8	1980.4	1983.9	1981.6	1990.9	1989.8	1987.4	1986.3	1982.8	1993.2
5°	2002.5	2002.5	2006.0	2009.5	2003.7	2015.3	2010.7	2008.4	2007.2	2002.5	2011.8
7.5°	2032.8	2036.3	2037.4	2043.2	2039.8	2052.5	2049.1	2044.4	2042.1	2036.3	2044.4
10°	2066.5	2068.8	2070.0	2080.5	2081.6	2096.7	2093.3	2087.4	2082.8	2077.0	2088.6
12.5°	2111.9	2113.0	2116.5	2129.3	2132.8	2144.4	2143.3	2135.1	2129.3	2121.2	2134.0
15°	2170.0	2171.2	2177.0	2189.8	2195.6	2209.5	2204.9	2192.1	2184.0	2174.7	2185.1
17.5°	2230.5	2235.1	2240.9	2253.7	2261.9	2278.2	2272.3	2258.4	2251.4	2242.1	2249.1
20°	2308.4	2309.6	2313.0	2327.0	2332.8	2351.4	2352.6	2338.6	2335.1	2325.8	2336.3
22.5°	2394.4	2395.6	2399.1	2414.2	2424.7	2436.3	2443.3	2435.1	2429.3	2417.7	2430.5
25°	2489.8	2501.4	2504.9	2523.5	2535.2	2542.1	2550.3	2546.8	2538.6	2524.7	2530.5
27.5°	2623.5	2625.9	2631.7	2652.6	2659.6	2666.6	2674.7	2675.9	2664.2	2648.0	2656.1
30°	2775.9	2774.7	2787.5	2803.8	2809.6	2815.4	2827.1	2834.0	2818.9	2801.5	2809.6
32.5°	2931.7	2945.7	2962.0	2977.1	2973.6	2975.9	2994.5	3007.3	2986.4	2955.0	2962.0
35°	3107.3	3116.6	3137.6	3159.6	3155.0	3151.5	3163.1	3175.9	3146.9	3106.2	3116.6
37.5°	3287.6	3301.5	3332.9	3359.7	3352.7	3336.4	3349.2	3363.2	3335.2	3288.7	3284.1
40°	3488.8	3510.8	3556.2	3578.3	3559.7	3528.3	3550.4	3584.1	3556.2	3502.7	3489.9
42.5°	3724.8	3751.6	3796.9	3830.7	3789.9	3738.8	3776.0	3824.8	3817.9	3746.9	3724.8
45°	4016.7	4034.2	4090.0	4106.3	4045.8	3974.9	4042.3	4116.7	4099.3	4022.5	3993.5
47.5°	4334.2	4360.9	4409.8	4440.0	4342.3	4254.0	4348.1	4448.2	4429.6	4357.5	4323.7
50°	4738.9	4773.8	4837.7	4863.3	4728.4	4627.2	4748.2	4875.0	4838.9	4742.4	4698.2
52.5°	5179.6	5207.5	5316.9	5368.0	5241.3	5132.0	5237.8	5362.2	5285.5	5157.5	5098.2
55°	5568.0	5596.0	5756.4	5926.2	5920.4	5844.8	5898.3	5900.6	5692.5	5480.8	5418.0
57.5°	5651.8	5679.7	5985.5	6429.8	6743.8	6831.0	6674.0	6343.7	5819.2	5448.3	5377.3
60°	5205.2	5236.6	5722.7	6534.4	7567.1	8149.7	7426.4	6334.4	5427.3	4925.0	4857.5
62.5°	4033.0	4066.7	4720.3	5939.0	7899.7	9469.6	7645.0	5668.1	4464.4	3828.3	3769.0
65°	1925.8	1925.8	2756.1	4259.8	7236.8	9438.2	7012.4	4193.5	2687.5	2064.2	2013.0
67.5°	476.8	479.1	709.4	1658.3	4922.6	7532.2	5002.9	2013.0	946.6	669.8	652.4
70°	297.7	296.5	329.1	448.9	1722.3	4571.4	2045.6	607.0	384.9	339.6	337.2
72.5°	231.4	231.4	247.7	287.2	451.2	1557.1	596.6	337.2	279.1	251.2	251.2
75°	182.6	182.6	194.2	215.1	266.3	401.2	317.5	250.0	216.3	197.7	195.4
77.5°	136.1	138.4	147.7	161.6	181.4	225.6	201.2	188.4	168.6	154.7	150.0
80°	88.4	91.9	103.5	111.6	118.6	148.9	131.4	137.2	127.9	111.6	109.3
82.5°	47.7	48.8	62.8	65.1	67.4	81.4	83.7	87.2	90.7	70.9	66.3
85°	17.4	17.4	20.9	24.4	26.7	29.1	39.5	48.8	51.2	40.7	39.5
87.5°	3.5	3.5	3.5	2.3	2.3	2.3	7.0	12.8	20.9	16.3	16.3
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)