

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: P632741

Luminaire Tested: GWS-SA2D-735-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632741  
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-SA2D-735-U-5WQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

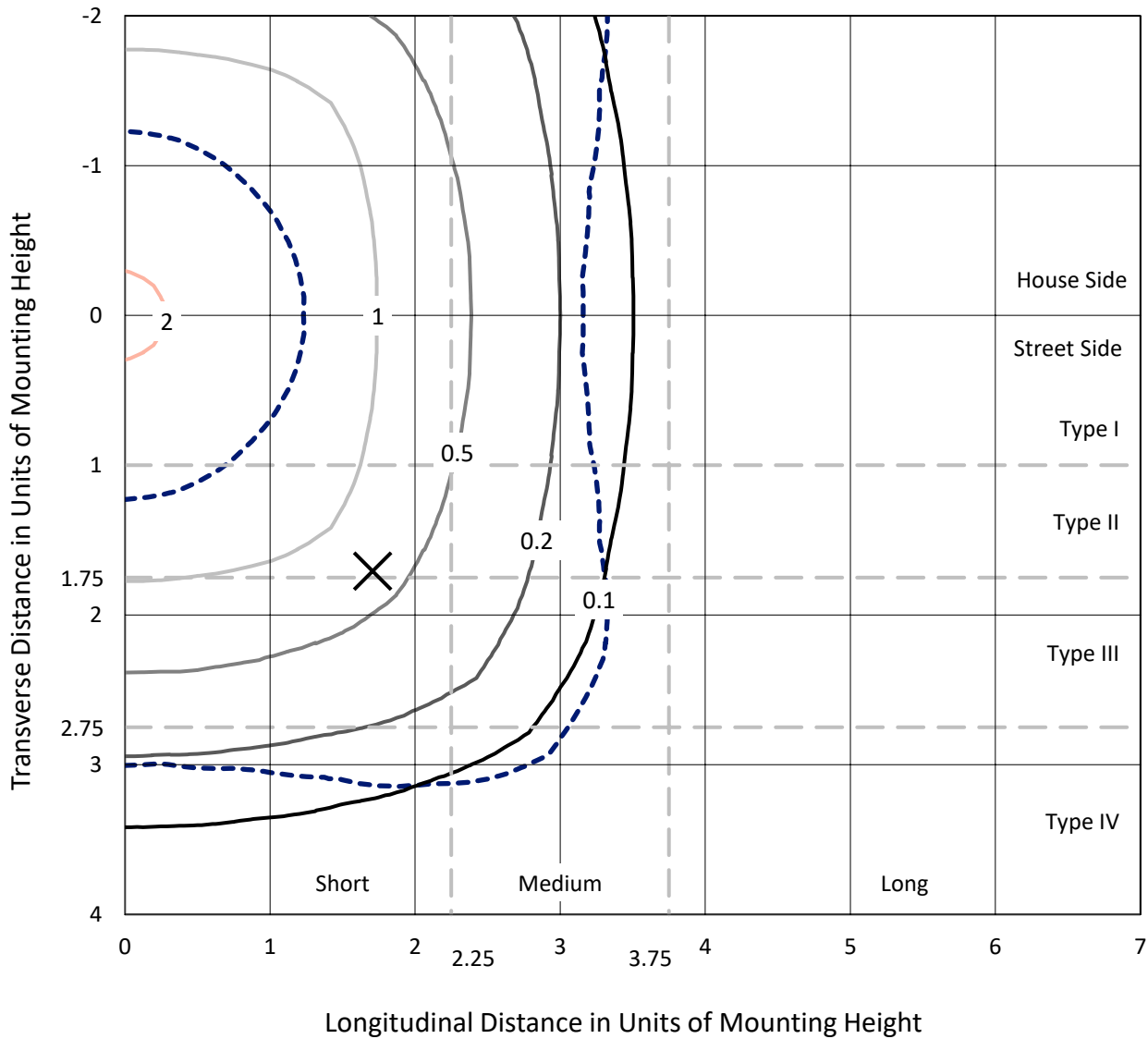
Lumens per Lamp: N/A  
Luminaire Lumens: 11675 lumens  
Efficiency: N/A  
Efficacy: 142.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

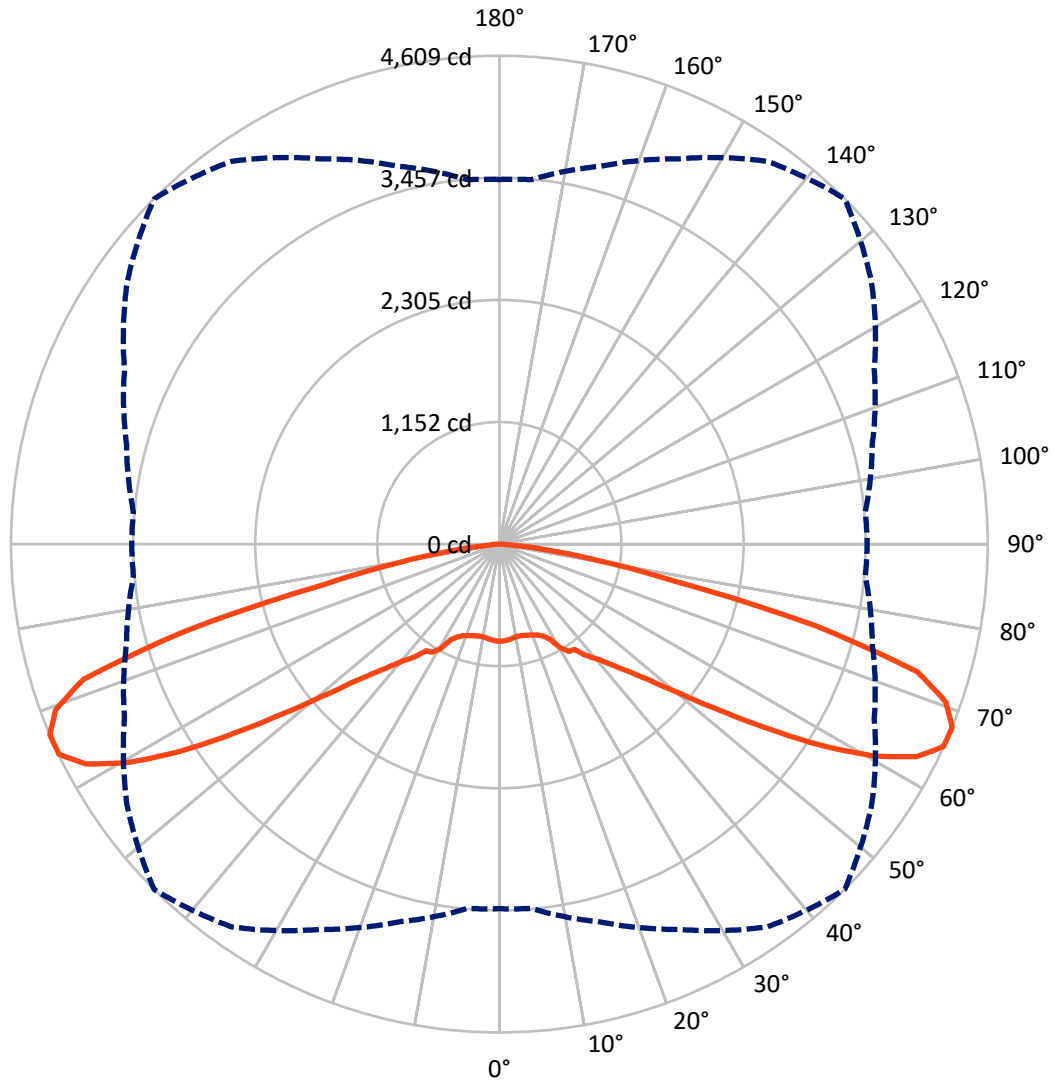
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 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	5837.5	0.0	5837.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5837.5	0.0	5837.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11675.0	0.0	11675.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	0.7
10°-20°	255.1	2.2
20°-30°	457.6	3.9
30°-40°	773.0	6.6
40°-50°	1358.3	11.6
50°-60°	2620.1	22.4
60°-70°	3801.4	32.6
70°-80°	2175.0	18.6
80°-90°	148.4	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°	11675.0	100.0
0°-180°	11675.0	100.0

**Coefficient of Utilization**



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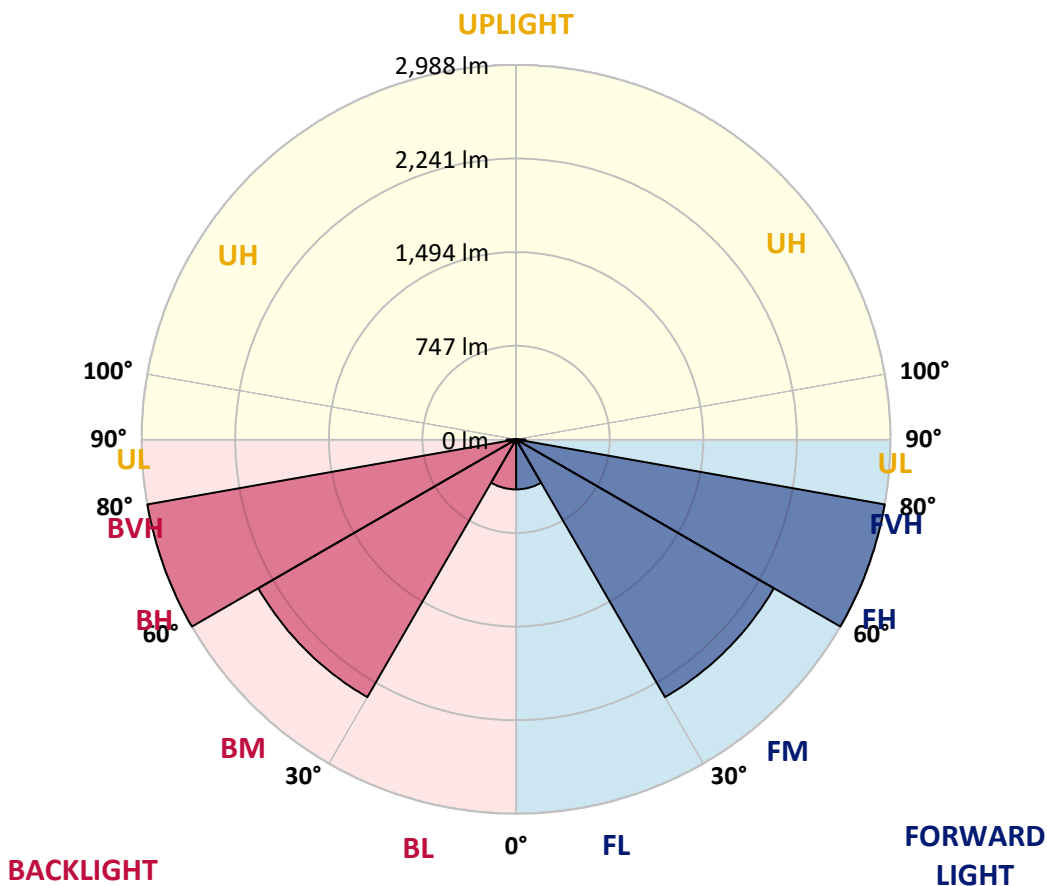
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.3	3.4			
FM (30°-60°)	2375.7	20.3			
FH (60°-80°)	2988.2	25.6			G2/5000
FVH (80°-90°)	74.2	0.6			G1/100
BL (0°-30°)	399.3	3.4	B1/500		
BM (30°-60°)	2375.7	20.3	B2/2500		
BH (60°-80°)	2988.2	25.6	B4/5000		G2/5000
BVH (80°-90°)	74.2	0.6			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°	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6
2.5°	908.1	909.0	910.6	910.6	912.3	914.7	915.6	913.9	914.7	910.6	914.7
5°	905.7	906.5	907.3	905.7	905.7	906.5	906.5	904.8	905.7	901.5	905.7
7.5°	899.9	900.7	900.7	898.2	895.7	897.4	897.4	895.7	896.6	892.4	897.4
10°	894.9	894.9	894.1	889.1	886.7	889.1	890.0	890.8	894.1	890.8	896.6
12.5°	898.2	898.2	895.7	889.1	885.0	886.7	888.3	890.0	895.7	894.9	901.5
15°	907.3	908.1	901.5	894.1	891.6	894.1	892.4	891.6	899.0	901.5	909.0
17.5°	914.7	914.7	906.5	899.0	899.9	904.0	900.7	896.6	904.0	909.0	917.2
20°	921.3	920.5	911.4	906.5	909.8	915.6	913.1	907.3	912.3	918.0	925.5
22.5°	937.8	937.0	927.1	924.6	927.9	933.7	931.2	926.3	932.1	940.3	949.4
25°	984.9	983.3	968.4	960.1	958.5	962.6	961.8	960.1	969.2	979.1	989.9
27.5°	1047.6	1046.8	1036.1	1027.8	1017.1	1013.8	1016.3	1023.7	1036.9	1044.3	1053.4
30°	1079.0	1079.0	1077.4	1090.6	1113.7	1136.0	1118.6	1090.6	1079.0	1075.7	1084.8
32.5°	1120.3	1124.4	1118.6	1133.5	1172.3	1205.3	1172.3	1126.9	1118.6	1118.6	1128.6
35°	1215.2	1216.9	1207.8	1205.3	1217.7	1221.8	1206.2	1189.6	1198.7	1200.4	1212.8
37.5°	1291.2	1291.2	1287.1	1293.7	1319.3	1334.9	1309.4	1279.6	1282.1	1283.8	1299.4
40°	1408.4	1411.7	1401.8	1401.0	1410.9	1424.9	1397.7	1378.7	1391.9	1396.0	1420.0
42.5°	1554.6	1554.6	1539.7	1535.6	1542.2	1557.0	1531.4	1519.1	1536.4	1539.7	1553.7
45°	1728.7	1732.9	1713.1	1705.6	1708.9	1713.9	1695.7	1689.9	1706.5	1713.9	1738.7
47.5°	1940.9	1945.0	1927.7	1926.9	1923.6	1926.9	1909.5	1906.2	1919.5	1913.7	1940.1
50°	2202.6	2210.1	2195.2	2215.8	2213.4	2223.3	2199.3	2182.0	2182.0	2166.3	2181.2
52.5°	2495.7	2510.6	2518.0	2552.7	2579.1	2603.9	2564.2	2537.0	2497.4	2465.2	2505.6
55°	2815.2	2811.1	2858.1	2934.1	3011.7	3070.3	2992.7	2906.8	2842.4	2775.6	2791.3
57.5°	3095.1	3109.1	3171.0	3309.7	3463.3	3587.1	3447.6	3282.5	3136.3	3040.6	3053.8
60°	3327.9	3339.4	3422.0	3621.8	3890.1	4061.0	3839.7	3567.3	3355.1	3223.0	3237.1
62.5°	3542.5	3553.3	3636.6	3857.1	4195.6	4418.5	4132.8	3760.5	3524.4	3391.4	3399.7
65°	3666.4	3673.0	3786.9	4018.9	4375.5	4605.9	4283.9	3900.0	3668.0	3532.6	3537.6
67.5°	3441.0	3451.7	3692.0	4012.3	4410.2	4609.2	4290.5	3904.1	3643.2	3466.6	3470.7
70°	2714.5	2705.4	2991.9	3542.5	4211.2	4470.5	4099.8	3611.0	3208.2	2961.3	2957.2
72.5°	2069.7	2072.2	2231.5	2608.8	3433.6	4125.4	3617.7	2907.7	2473.4	2286.0	2278.6
75°	1500.9	1524.0	1653.6	1930.2	2401.6	3083.5	2723.6	2154.7	1864.1	1751.9	1735.4
77.5°	676.1	705.9	886.7	1211.9	1605.7	1704.0	1710.6	1462.9	1103.8	917.2	888.3
80°	197.3	211.3	271.6	464.8	748.0	966.7	767.8	645.6	402.1	315.4	300.5
82.5°	83.4	94.9	116.4	128.8	217.1	448.3	279.0	177.5	165.1	133.7	122.2
85°	35.5	38.0	48.7	52.0	70.2	95.8	88.3	80.1	76.8	59.4	54.5
87.5°	14.9	14.9	14.9	13.2	12.4	13.2	18.2	23.1	30.5	23.9	22.3
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)