

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: P641149

Luminaire Tested: GWS-SA5F-735-U-5MQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641149  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-735-U-5MQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36044.7 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 310.3  
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

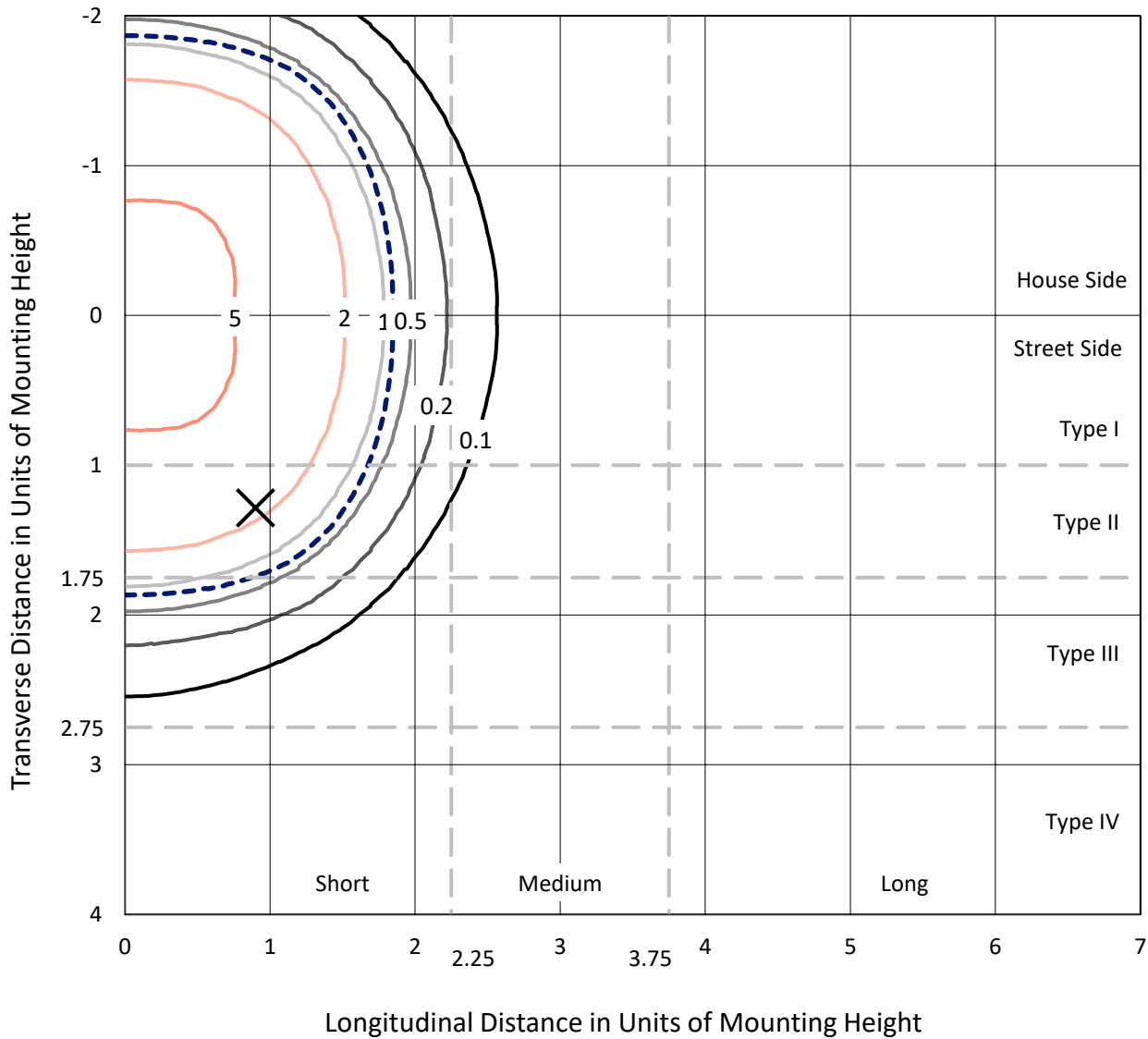


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### Iso-Footcandle Lines of Horizontal Illumination

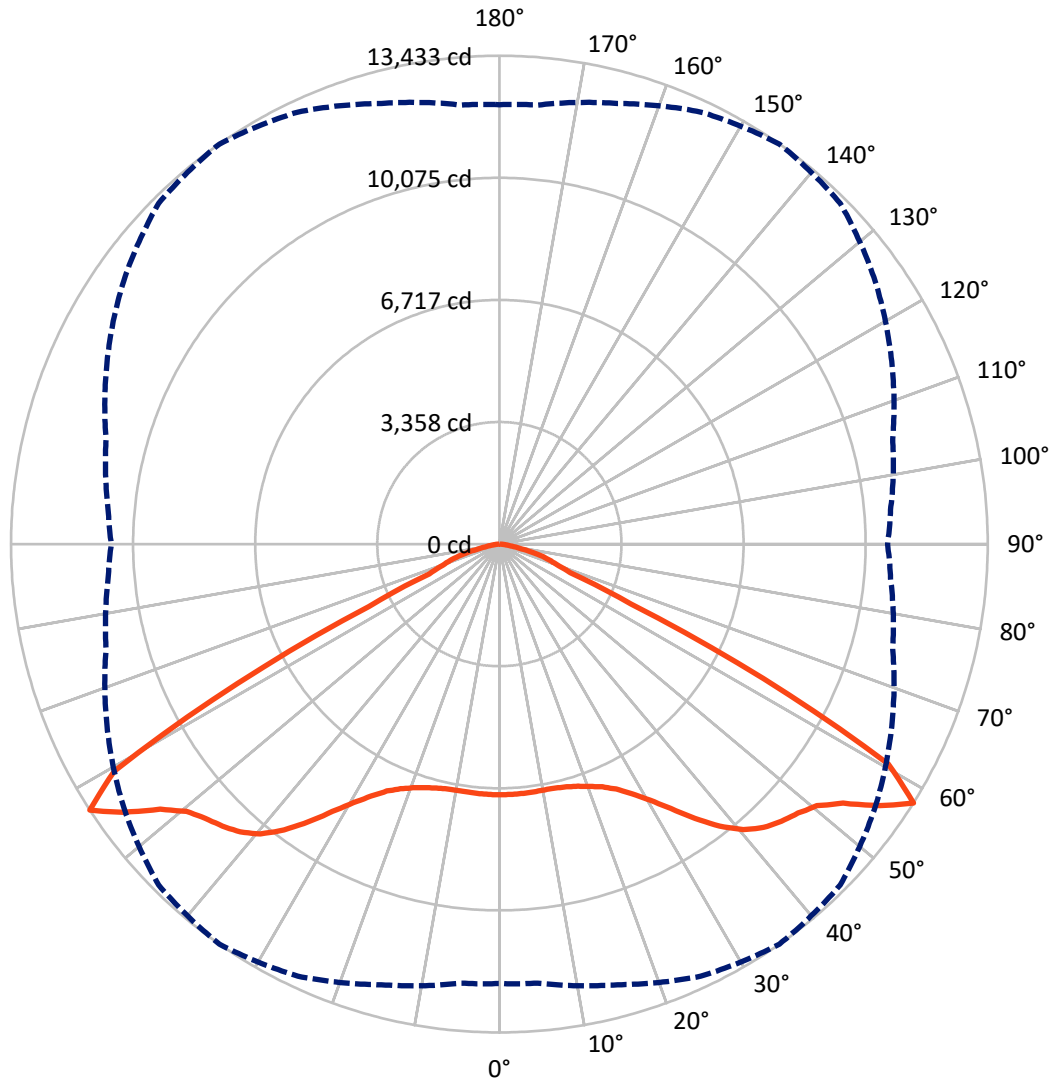
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18022.3	0.0	18022.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18022.3	0.0	18022.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36044.7	0.0	36044.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	656.1	1.8
10°-20°	1957.5	5.4
20°-30°	3415.5	9.5
30°-40°	5600.6	15.5
40°-50°	8248.4	22.9
50°-60°	10526.4	29.2
60°-70°	4436.3	12.3
70°-80°	1059.7	2.9
80°-90°	144.2	0.4
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°	36044.7	100.0
0°-180°	36044.7	100.0

**Coefficient of Utilization**



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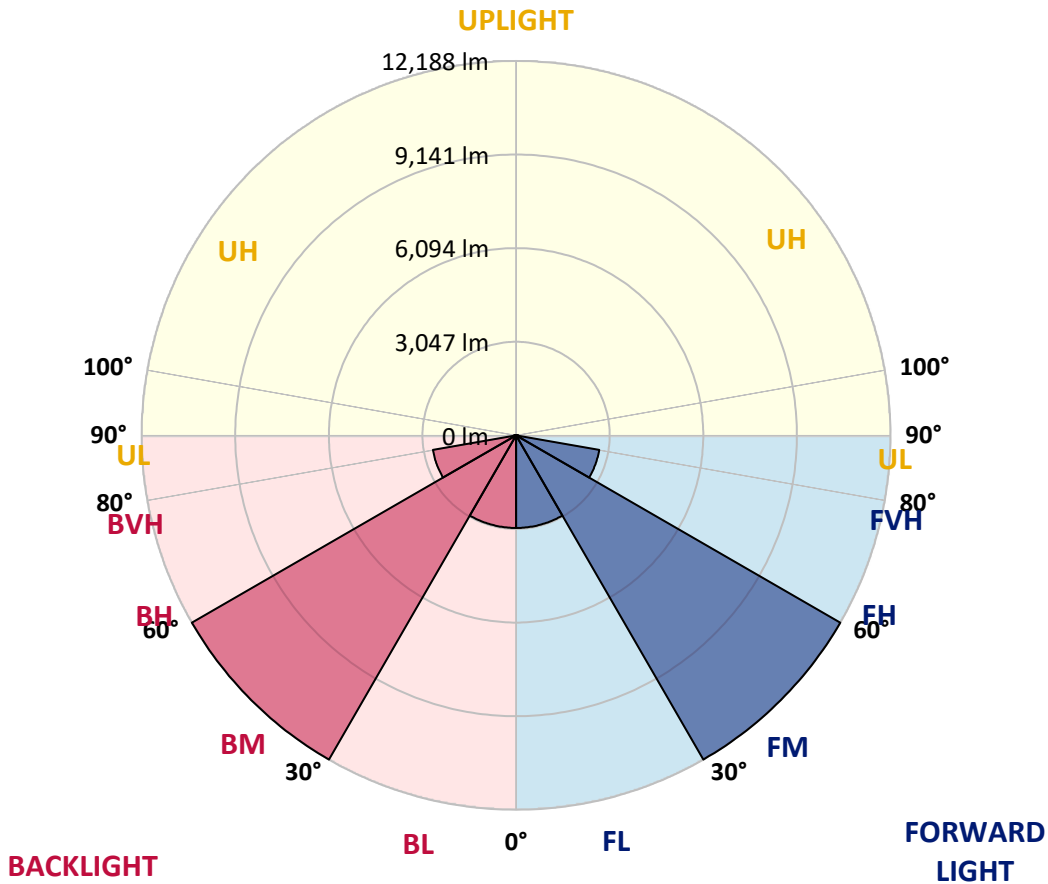
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3014.5	8.4			
FM (30°-60°)	12187.7	33.8			
FH (60°-80°)	2748.0	7.6			G2/5000
FVH (80°-90°)	72.1	0.2			G1/100
BL (0°-30°)	3014.5	8.4	B4/5000		
BM (30°-60°)	12187.7	33.8	B5		
BH (60°-80°)	2748.0	7.6	B4/5000		G2/5000
BVH (80°-90°)	72.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7
2.5°	6855.4	6855.4	6870.2	6884.9	6890.8	6917.4	6914.4	6905.6	6899.7	6882.0	6905.6
5°	6870.2	6870.2	6882.0	6890.8	6887.9	6908.5	6899.7	6884.9	6876.1	6858.4	6884.9
7.5°	6867.2	6867.2	6876.1	6884.9	6879.0	6896.7	6882.0	6861.3	6846.6	6828.9	6852.5
10°	6828.9	6834.8	6843.6	6864.3	6873.1	6899.7	6879.0	6846.6	6823.0	6802.3	6825.9
12.5°	6823.0	6828.9	6840.7	6867.2	6882.0	6920.3	6893.8	6840.7	6805.3	6778.7	6802.3
15°	6849.5	6855.4	6873.1	6905.6	6929.2	6970.5	6932.2	6858.4	6808.2	6772.8	6793.5
17.5°	6882.0	6890.8	6917.4	6964.6	7003.0	7047.2	7000.0	6911.5	6840.7	6793.5	6811.2
20°	6917.4	6929.2	6970.5	7041.3	7112.2	7168.2	7109.2	6991.2	6905.6	6843.6	6861.3
22.5°	6979.4	6994.1	7047.2	7147.6	7253.8	7336.5	7262.7	7103.3	6991.2	6911.5	6926.3
25°	7106.3	7124.0	7191.9	7312.8	7463.4	7563.7	7460.4	7280.4	7124.0	7026.6	7041.3
27.5°	7330.6	7339.4	7427.9	7587.3	7773.2	7888.3	7764.4	7551.9	7377.8	7265.6	7277.4
30°	7625.7	7652.2	7740.8	7950.3	8171.6	8325.1	8162.8	7911.9	7711.2	7575.5	7587.3
32.5°	7985.7	8003.4	8136.2	8354.6	8673.3	8850.4	8629.0	8331.0	8089.0	7923.7	7935.5
35°	8457.9	8472.6	8599.5	8876.9	9263.5	9428.8	9175.0	8832.7	8552.3	8395.9	8440.2
37.5°	9021.5	9048.1	9139.6	9414.0	9844.9	10007.2	9715.0	9396.3	9104.2	8959.6	8992.0
40°	9626.5	9623.6	9697.3	9939.3	10331.8	10432.2	10169.5	9915.7	9664.9	9570.4	9623.6
42.5°	10145.9	10131.2	10184.3	10385.0	10656.5	10665.3	10491.2	10349.5	10172.5	10107.5	10157.7
45°	10508.9	10514.8	10594.5	10733.2	10871.9	10798.1	10745.0	10721.4	10582.7	10494.1	10503.0
47.5°	10795.2	10818.8	10945.7	11040.1	11057.8	10933.9	11007.6	11043.0	10928.0	10792.2	10753.8
50°	11049.0	11087.3	11252.6	11352.9	11314.6	11158.1	11302.7	11355.9	11102.1	10842.4	10765.6
52.5°	11509.3	11553.6	11754.3	11884.1	11839.8	11683.4	11819.2	11630.3	11202.4	10883.7	10786.3
55°	12244.1	12264.8	12509.7	12722.2	12701.6	12509.7	12400.6	11981.5	11462.1	11131.6	11040.1
57.5°	12087.7	12123.2	12548.1	13114.7	13433.4	13259.3	12618.9	11904.8	11199.5	10801.1	10677.1
60°	9511.4	9597.0	10125.3	11122.7	12291.4	12288.4	11099.1	9989.5	9139.6	8611.3	8558.2
62.5°	5554.0	5613.0	6094.0	7103.3	8151.0	8215.9	7380.7	6619.3	5875.7	5518.6	5347.4
65°	2629.4	2626.5	2818.3	3272.8	3981.0	4037.1	3786.3	3370.2	2930.5	2809.5	2777.0
67.5°	1941.8	1941.8	1927.1	1959.5	2095.3	2124.8	2095.3	2027.4	1986.1	2012.7	1994.9
70°	1685.1	1688.0	1670.3	1661.5	1661.5	1652.6	1664.4	1691.0	1708.7	1744.1	1726.4
72.5°	1366.4	1369.3	1369.3	1372.3	1375.2	1363.4	1381.1	1395.9	1398.8	1410.6	1398.8
75°	970.9	976.8	994.5	1009.3	1021.1	1021.1	1027.0	1029.9	1018.1	1032.9	1009.3
77.5°	534.2	540.1	572.5	599.1	625.6	628.6	637.4	643.3	637.4	649.2	631.5
80°	295.1	301.0	315.8	327.6	348.2	365.9	377.7	383.6	383.6	392.5	383.6
82.5°	168.2	174.1	183.0	188.9	206.6	221.3	233.1	242.0	242.0	244.9	239.0
85°	79.7	79.7	85.6	91.5	100.3	106.2	121.0	129.8	129.8	135.8	129.8
87.5°	11.8	14.8	17.7	17.7	23.6	29.5	35.4	38.4	44.3	47.2	47.2
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)