

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: P641207

Luminaire Tested: GWS-SA5F-740-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641207  
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-SA5F-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**

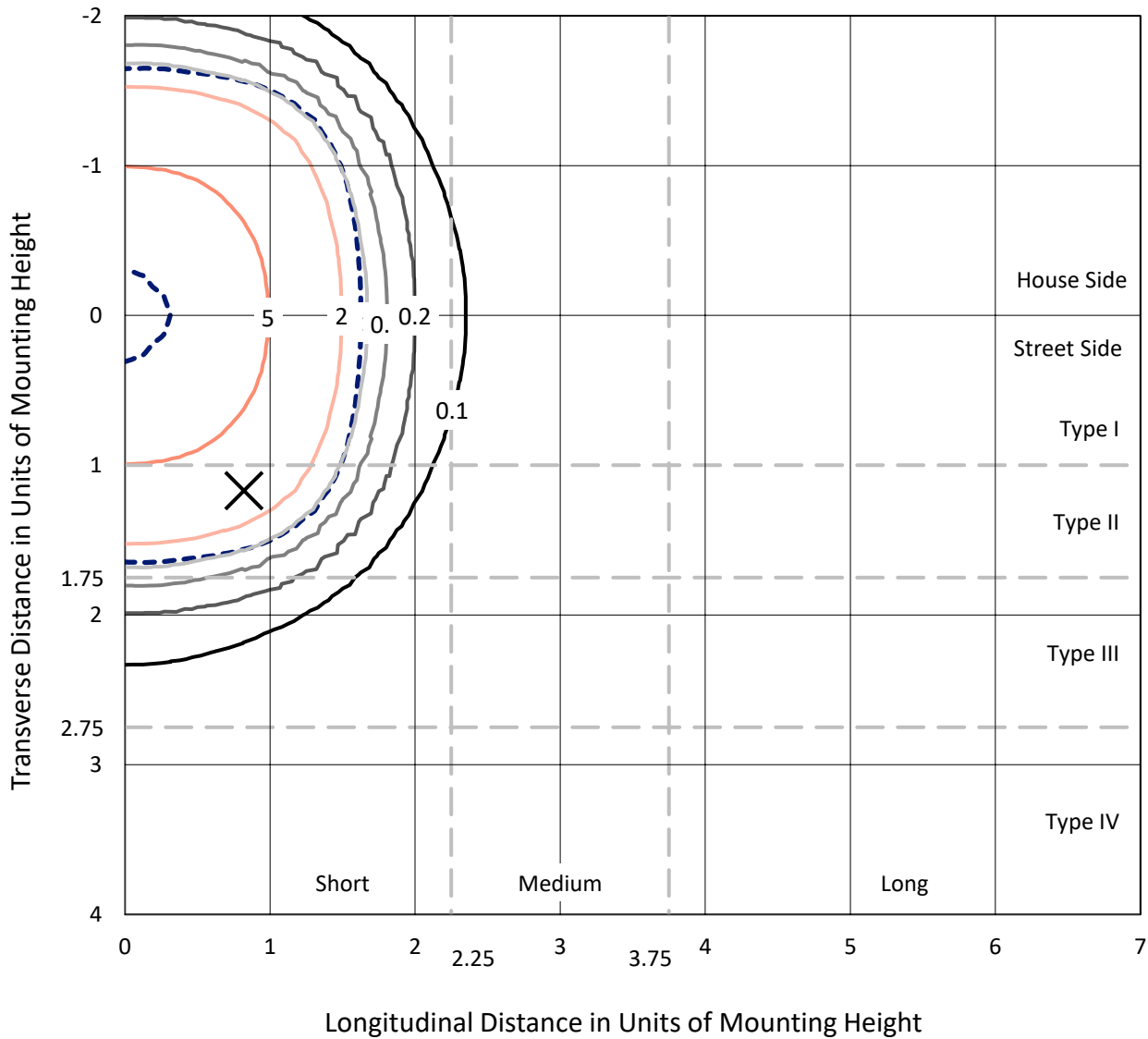
Lumens per Lamp: N/A  
Luminaire Lumens: 37838.2 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

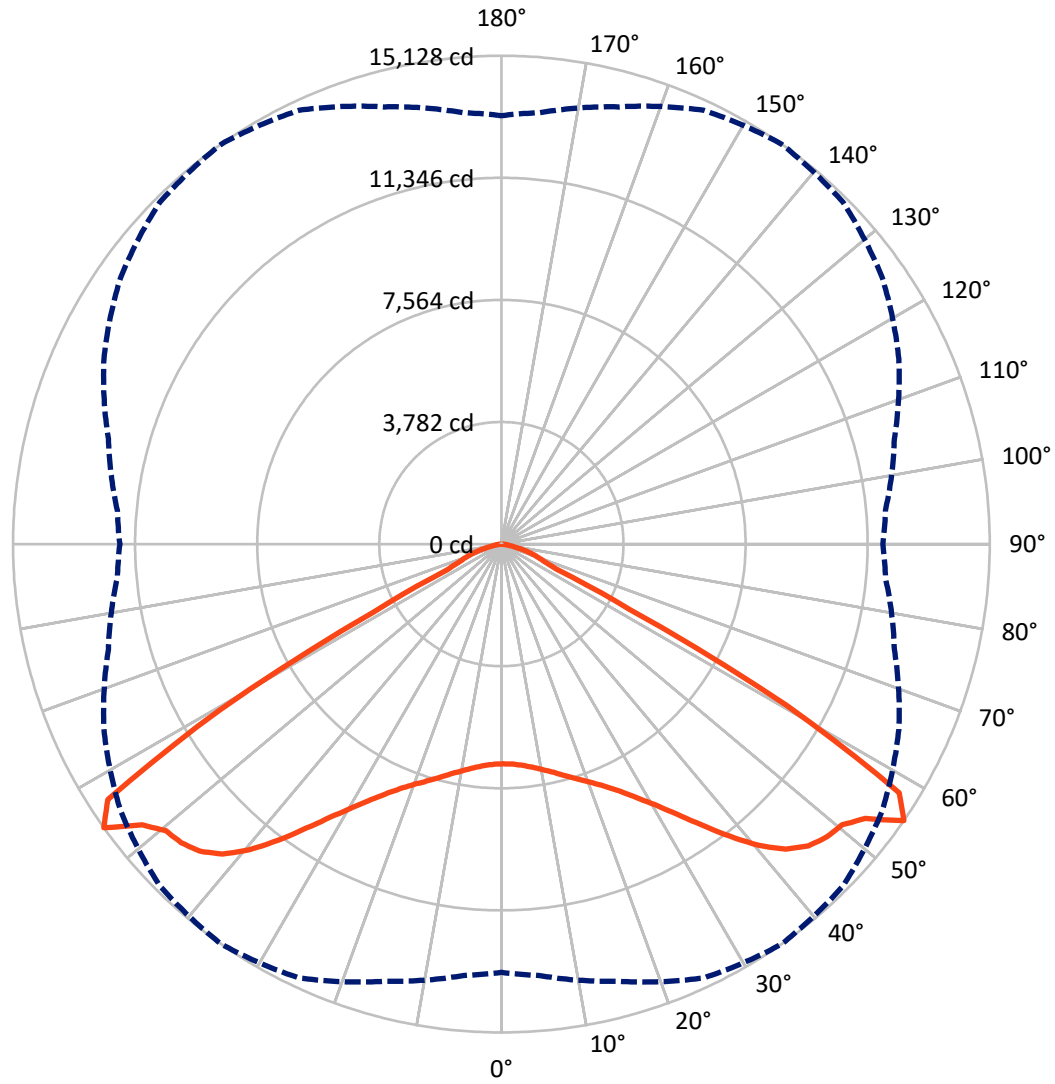
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 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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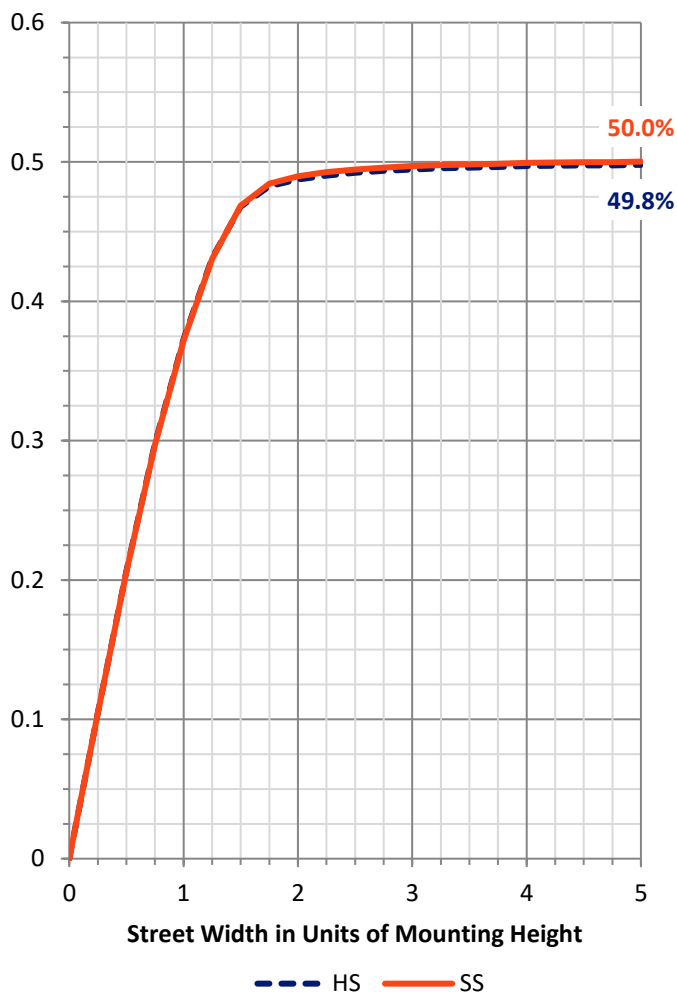
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18919.1	0.0	18919.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18919.1	0.0	18919.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37838.2	0.0	37838.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	664.0	1.8
10°-20°	2113.9	5.6
20°-30°	3912.4	10.3
30°-40°	6544.6	17.3
40°-50°	9973.0	26.4
50°-60°	11171.8	29.5
60°-70°	2643.3	7.0
70°-80°	712.7	1.9
80°-90°	102.6	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°	37838.2	100.0
0°-180°	37838.2	100.0

**Coefficient of Utilization**



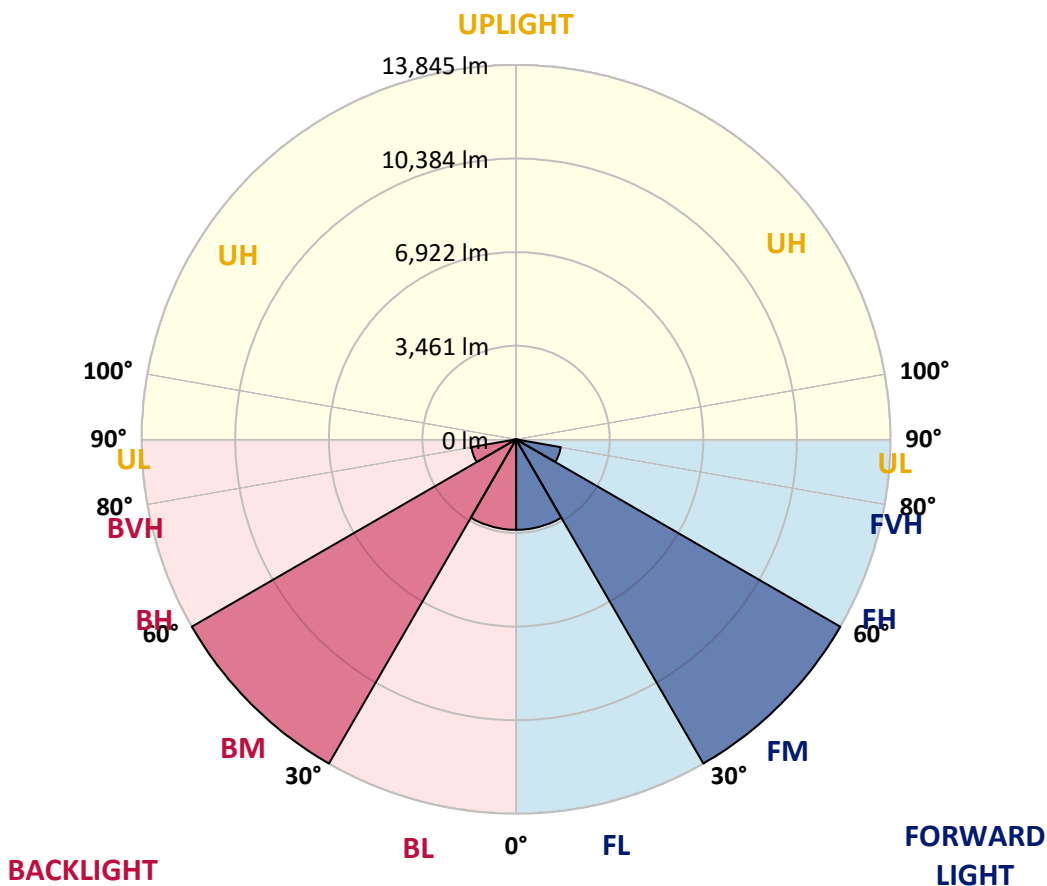
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3345.1	8.8			
FM (30°-60°)	13844.7	36.6			
FH (60°-80°)	1678.0	4.4			G1/1800
FVH (80°-90°)	51.3	0.1			G1/100
BL (0°-30°)	3345.1	8.8	B4/5000		
BM (30°-60°)	13844.7	36.6	B5		
BH (60°-80°)	1678.0	4.4	B3/2500		G1/1800
BVH (80°-90°)	51.3	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°	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2
2.5°	6792.2	6792.2	6804.2	6819.2	6822.2	6852.1	6846.1	6834.1	6828.1	6816.2	6843.1
5°	6867.0	6870.0	6879.0	6888.0	6882.0	6905.9	6897.0	6882.0	6873.0	6858.1	6885.0
7.5°	6965.8	6965.8	6974.8	6986.7	6980.7	7016.6	6998.7	6977.7	6962.8	6944.8	6968.8
10°	7055.5	7061.5	7070.5	7094.4	7106.4	7145.3	7133.3	7103.4	7079.5	7058.5	7085.5
12.5°	7190.2	7196.2	7205.2	7238.1	7259.0	7297.9	7280.0	7238.1	7202.2	7172.2	7202.2
15°	7363.7	7357.8	7381.7	7423.6	7450.5	7486.4	7465.5	7393.7	7345.8	7306.9	7336.8
17.5°	7540.3	7537.3	7561.2	7615.1	7654.0	7701.9	7665.9	7582.2	7531.3	7483.4	7513.3
20°	7731.8	7740.8	7764.7	7815.6	7872.4	7935.2	7905.3	7815.6	7758.7	7704.8	7728.8
22.5°	7968.2	7971.1	7998.1	8063.9	8138.7	8198.6	8180.6	8069.9	7998.1	7941.2	7971.1
25°	8252.4	8249.4	8285.3	8363.1	8467.8	8527.7	8488.8	8366.1	8288.3	8222.5	8246.4
27.5°	8578.6	8575.6	8629.4	8731.2	8880.8	8964.6	8883.8	8731.2	8623.4	8530.7	8551.6
30°	8988.5	8979.5	9039.4	9177.0	9371.5	9512.1	9392.4	9180.0	9039.4	8940.6	8961.6
32.5°	9443.3	9455.3	9530.1	9715.6	9960.9	10143.5	9963.9	9727.6	9539.0	9395.4	9419.4
35°	9943.0	9943.0	10095.6	10326.0	10676.1	10918.4	10640.2	10299.1	10047.7	9850.2	9856.2
37.5°	10499.5	10505.5	10706.0	11023.2	11481.0	11765.2	11388.2	10966.3	10661.1	10448.7	10436.7
40°	11178.8	11196.7	11403.2	11756.2	12270.9	12531.2	12127.3	11714.4	11403.2	11151.8	11127.9
42.5°	11944.8	11950.7	12169.2	12486.3	12920.2	13075.8	12758.6	12420.5	12166.2	11938.8	11914.8
45°	12674.8	12659.9	12848.4	13084.8	13336.1	13351.1	13174.5	13036.9	12815.5	12621.0	12585.1
47.5°	13243.4	13231.4	13401.9	13530.6	13560.5	13413.9	13470.8	13491.7	13234.4	12971.1	12902.3
50°	13590.5	13614.4	13776.0	13847.8	13671.2	13431.9	13647.3	13593.4	13225.4	12881.3	12770.6
52.5°	13799.9	13835.8	14117.1	14299.6	14117.1	13889.7	13919.6	13602.4	13072.8	12618.0	12474.4
55°	13270.3	13413.9	14021.3	14829.2	15128.4	14969.8	14401.3	13584.5	12603.0	11941.8	11819.1
57.5°	9835.3	10062.7	10963.3	12713.7	14533.0	15110.5	13449.8	11388.2	9901.1	9051.3	8979.5
60°	5020.9	5275.2	5996.3	7794.6	10134.5	10948.4	9368.5	7291.9	5795.8	5107.6	5029.8
62.5°	2049.6	2091.5	2327.9	3022.1	4479.3	5167.5	4539.1	3186.7	2393.7	2205.2	2208.2
65°	1612.8	1621.8	1609.8	1651.7	1876.1	2082.6	1924.0	1690.6	1648.7	1669.6	1654.7
67.5°	1406.3	1409.3	1400.3	1400.3	1409.3	1400.3	1418.3	1427.3	1433.3	1457.2	1442.2
70°	1175.9	1178.9	1178.9	1184.9	1181.9	1166.9	1193.9	1205.8	1208.8	1223.8	1214.8
72.5°	909.6	918.6	924.6	927.6	924.6	915.6	930.6	951.5	948.5	963.5	948.5
75°	616.4	628.4	634.3	646.3	643.3	643.3	661.3	670.2	661.3	673.2	661.3
77.5°	350.1	359.1	377.0	389.0	401.0	409.9	421.9	427.9	424.9	430.9	424.9
80°	203.5	206.5	221.4	227.4	242.4	257.3	269.3	275.3	278.3	281.3	278.3
82.5°	116.7	119.7	125.7	131.7	143.6	155.6	167.6	176.5	176.5	179.5	176.5
85°	56.9	56.9	59.8	62.8	68.8	77.8	86.8	95.7	98.7	98.7	98.7
87.5°	9.0	9.0	12.0	12.0	15.0	18.0	23.9	29.9	32.9	32.9	32.9
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)