

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: P641426

Luminaire Tested: GWS-SA5F-830-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-830-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23331.6 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G0

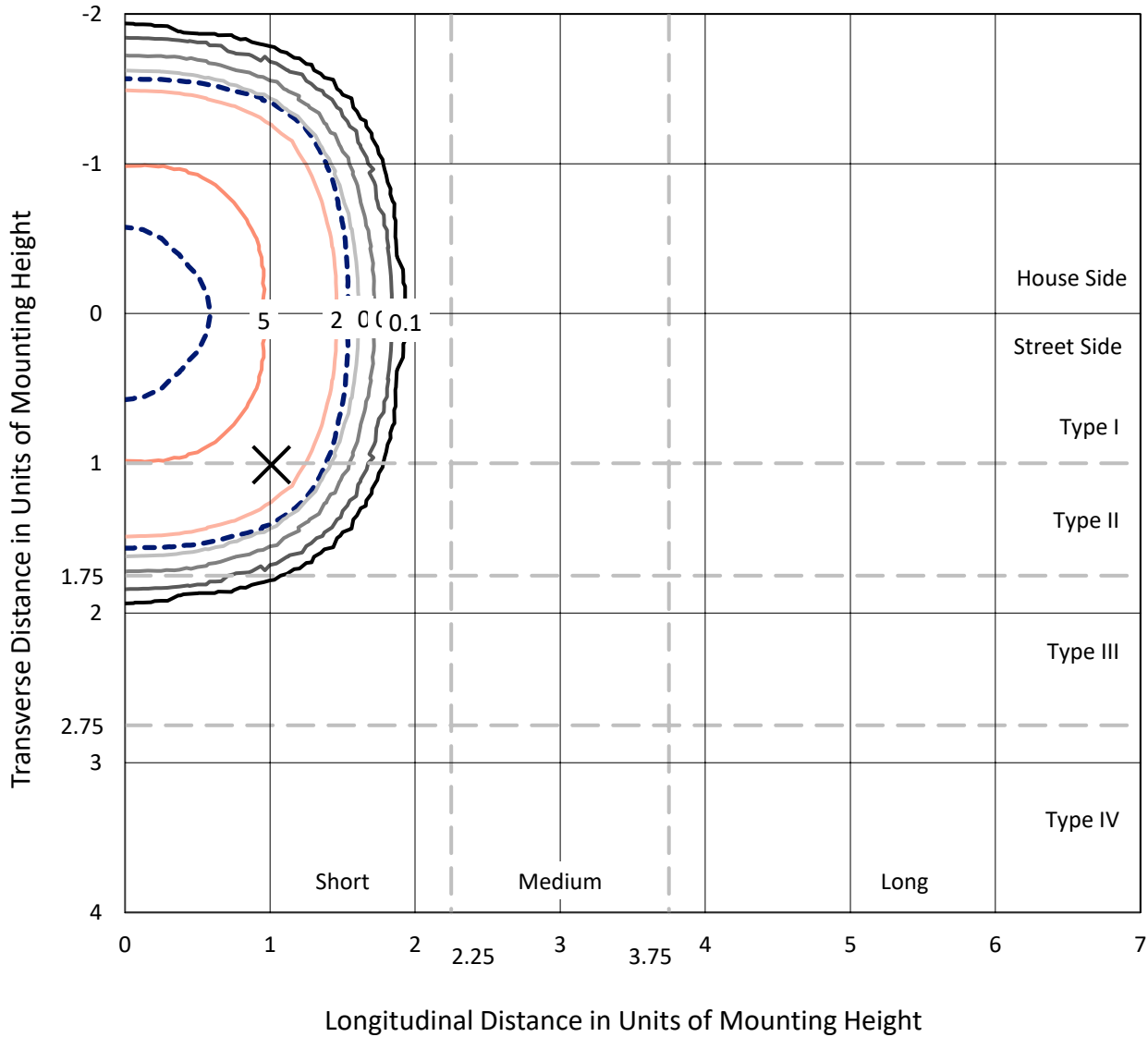
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

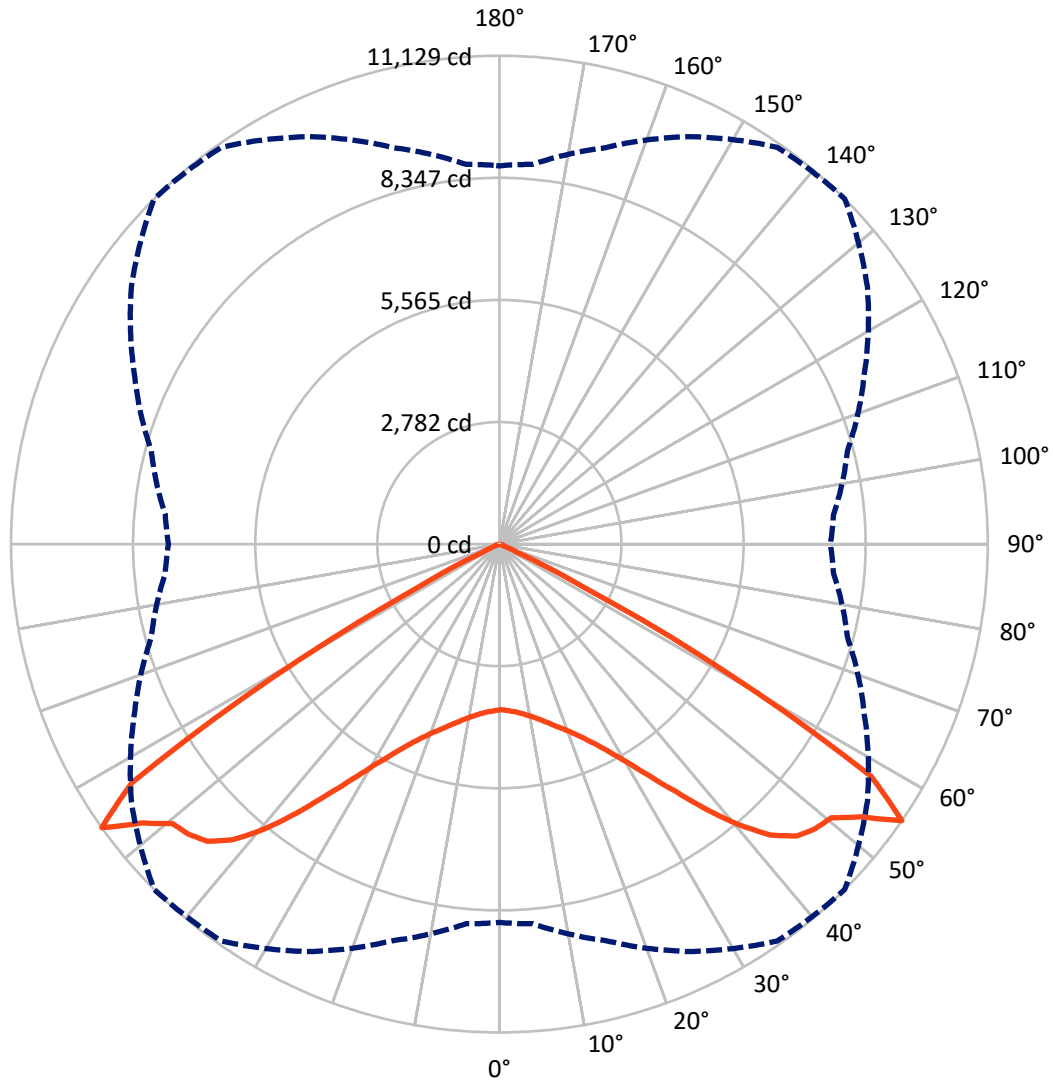
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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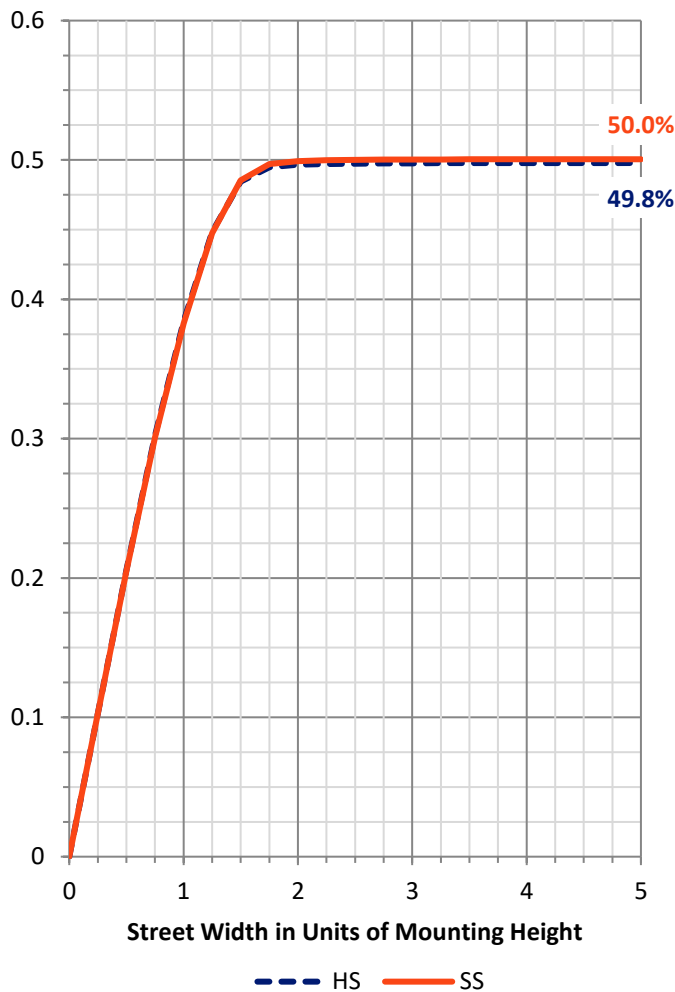
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11665.8	0.0	11665.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11665.8	0.0	11665.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	23331.6	0.0	23331.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.6	1.6
10°-20°	1198.1	5.1
20°-30°	2320.2	9.9
30°-40°	4156.8	17.8
40°-50°	6969.2	29.9
50°-60°	7460.2	32.0
60°-70°	819.8	3.5
70°-80°	36.1	0.2
80°-90°	1.7	0.0
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°	23331.6	100.0
0°-180°	23331.6	100.0

Coefficient of Utilization



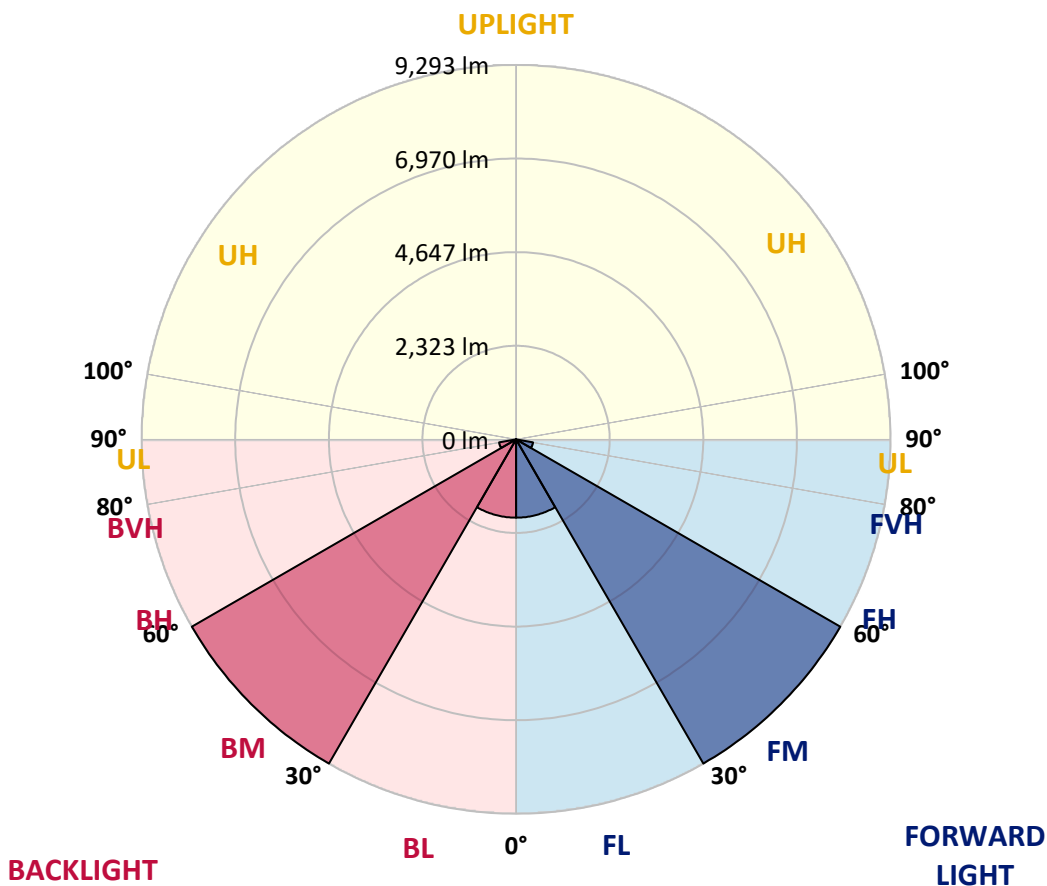
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1943.9	8.3			
FM (30°-60°)	9293.1	39.8			
FH (60°-80°)	427.9	1.8			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	1943.9	8.3	B3/2500		
BM (30°-60°)	9293.1	39.8	B5		
BH (60°-80°)	427.9	1.8	B1/500		G0/660
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3772.3	3772.3	3772.3	3772.3	3772.3	3772.3	3772.3	3772.3	3772.3	3772.3	3772.3
2.5°	3765.1	3765.1	3774.6	3781.8	3781.8	3800.8	3793.7	3786.5	3786.5	3777.0	3796.0
5°	3819.8	3817.4	3826.9	3831.7	3822.2	3841.2	3829.3	3822.2	3817.4	3807.9	3826.9
7.5°	3879.2	3881.6	3884.0	3893.5	3888.7	3907.8	3898.3	3884.0	3879.2	3865.0	3884.0
10°	3950.5	3950.5	3955.3	3967.2	3969.6	3993.3	3983.8	3967.2	3952.9	3938.7	3957.7
12.5°	4040.9	4043.2	4050.4	4067.0	4076.5	4102.7	4088.4	4055.1	4033.7	4017.1	4038.5
15°	4171.6	4169.2	4178.7	4202.5	4214.4	4233.4	4212.0	4166.8	4140.7	4121.7	4135.9
17.5°	4314.2	4314.2	4319.0	4342.7	4359.4	4387.9	4361.8	4307.1	4283.3	4257.2	4271.4
20°	4471.1	4478.2	4483.0	4499.6	4528.2	4556.7	4535.3	4480.6	4454.5	4421.2	4437.8
22.5°	4677.9	4670.8	4673.1	4701.7	4742.1	4770.6	4754.0	4689.8	4644.6	4618.5	4628.0
25°	4908.5	4906.1	4913.2	4956.0	5001.2	5032.1	5008.3	4925.1	4879.9	4834.8	4853.8
27.5°	5191.3	5193.7	5198.5	5250.8	5322.1	5367.2	5307.8	5224.6	5162.8	5103.4	5117.6
30°	5526.5	5521.7	5536.0	5607.3	5711.9	5783.2	5714.3	5597.8	5509.8	5452.8	5459.9
32.5°	5883.0	5887.8	5925.8	6039.9	6177.8	6303.8	6163.5	6009.0	5894.9	5788.0	5802.2
35°	6268.1	6280.0	6365.6	6534.3	6760.1	6928.9	6734.0	6479.7	6318.0	6180.2	6184.9
37.5°	6722.1	6750.6	6869.5	7121.4	7444.7	7670.5	7385.3	7047.8	6838.6	6667.4	6655.5
40°	7318.7	7352.0	7513.6	7813.1	8205.3	8412.1	8081.7	7734.7	7475.6	7290.2	7261.7
42.5°	8003.3	8046.1	8222.0	8528.6	8920.8	9061.1	8737.8	8445.4	8212.5	7993.8	7984.3
45°	8775.8	8799.6	8942.2	9177.5	9460.4	9493.7	9251.2	9089.6	8854.3	8649.8	8633.2
47.5°	9500.8	9524.6	9622.0	9743.2	9809.8	9691.0	9648.2	9576.9	9272.6	9020.6	8968.4
50°	10052.3	10071.3	10192.5	10240.0	10054.6	9802.7	9885.9	9733.7	9403.3	9120.5	9039.7
52.5°	10014.2	10061.8	10373.1	10644.1	10527.7	10323.2	10099.8	9771.8	9258.3	8870.9	8771.1
55°	8621.3	8685.5	9353.4	10244.8	11041.1	11129.0	10235.3	9177.5	8212.5	7644.4	7542.2
57.5°	5540.7	5557.4	6372.7	7623.0	9417.6	9983.3	8488.2	6919.4	5719.0	5093.9	5051.1
60°	2037.1	2003.8	2619.4	3655.8	5424.3	6023.3	4996.4	3498.9	2495.8	2053.7	2018.1
62.5°	489.7	494.4	613.3	919.9	1701.9	2106.0	1663.9	929.4	591.9	496.8	492.0
65°	247.2	242.5	244.8	263.8	363.7	435.0	356.5	252.0	242.5	244.8	242.5
67.5°	159.3	156.9	161.6	164.0	161.6	152.1	149.7	154.5	154.5	156.9	152.1
70°	97.5	95.1	99.8	107.0	102.2	90.3	95.1	99.8	95.1	92.7	92.7
72.5°	52.3	52.3	57.0	61.8	57.0	52.3	52.3	54.7	52.3	52.3	52.3
75°	23.8	23.8	26.1	28.5	23.8	23.8	23.8	23.8	23.8	23.8	23.8
77.5°	7.1	7.1	9.5	9.5	7.1	7.1	7.1	7.1	9.5	9.5	9.5
80°	2.4	4.8	4.8	2.4	2.4	2.4	2.4	2.4	4.8	4.8	4.8
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4
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)