

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: P641156

Luminaire Tested: GWS-SA5F-735-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641156
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-SA5F-735-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41734.4 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

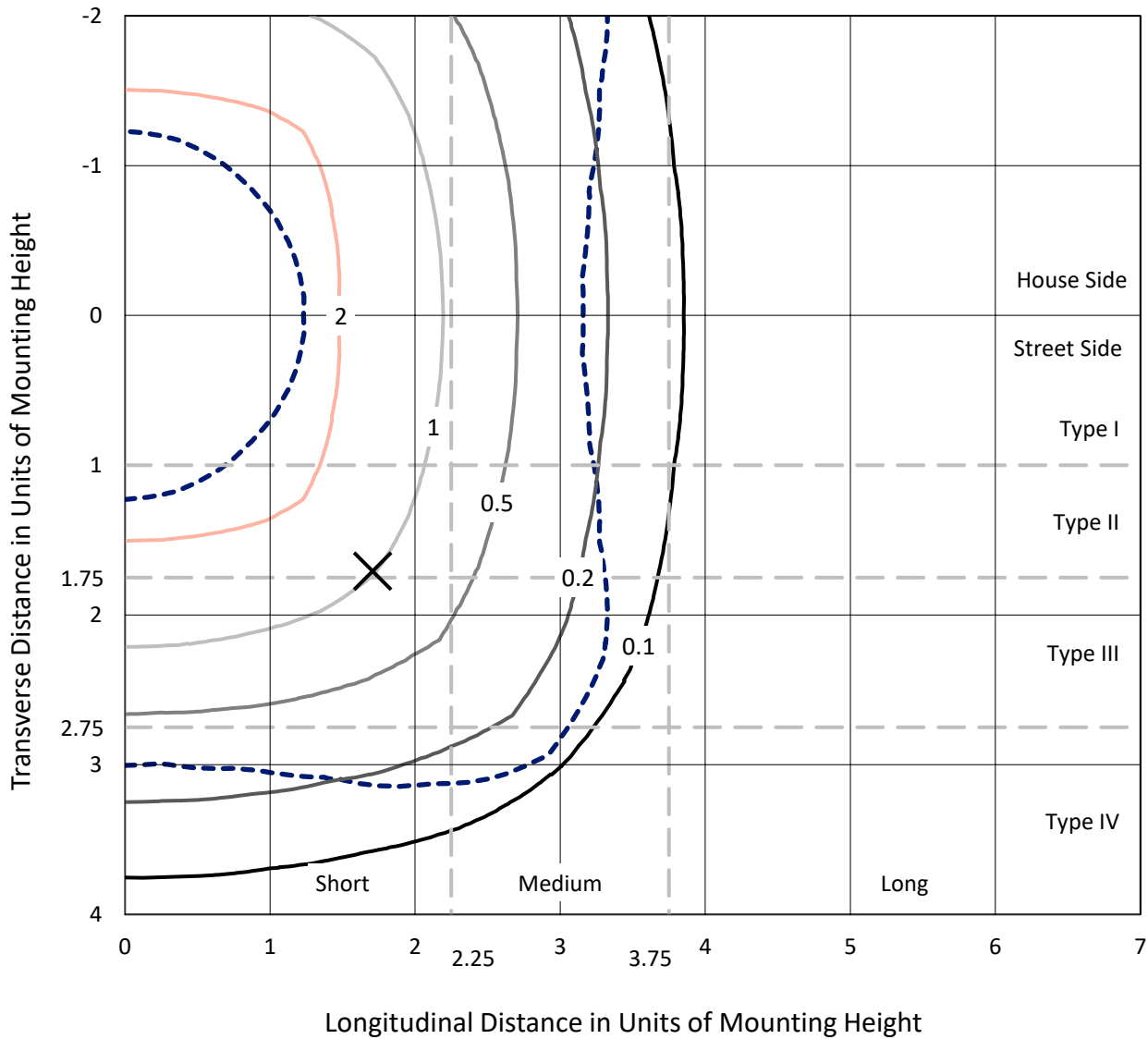
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

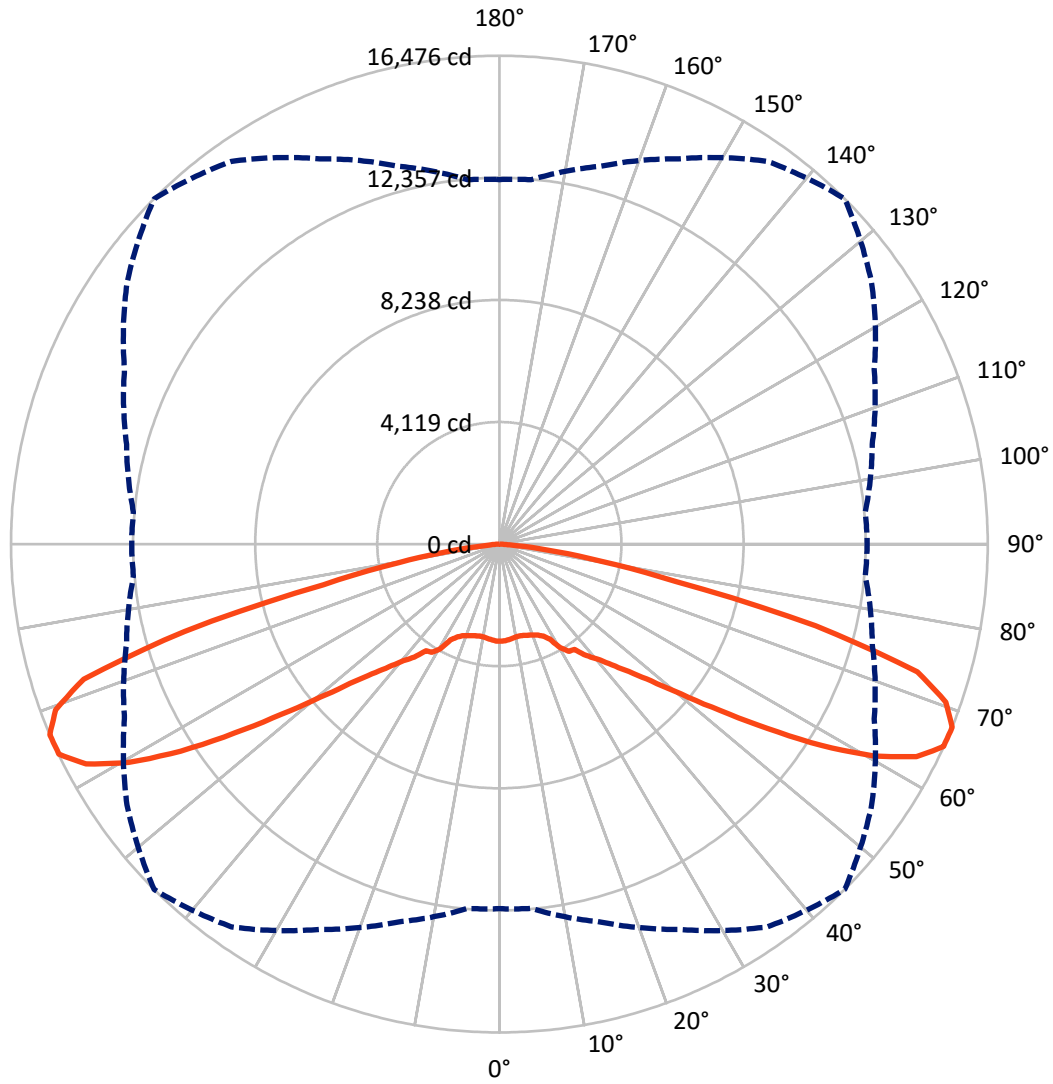
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.6 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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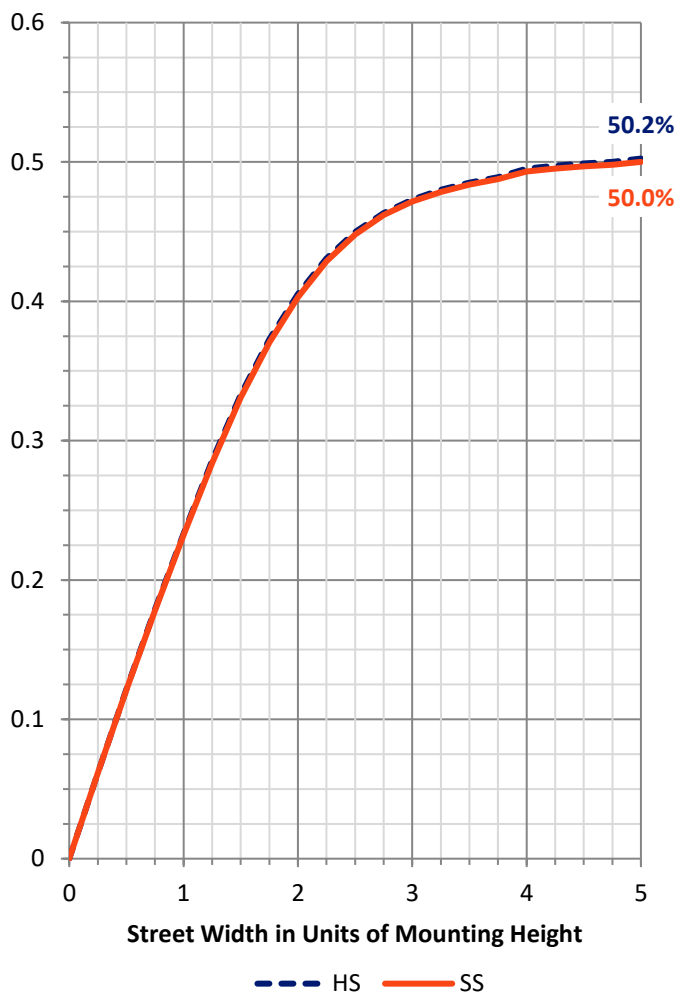
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20867.2	0.0	20867.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20867.2	0.0	20867.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	41734.4	0.0	41734.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.3	0.7
10°-20°	911.9	2.2
20°-30°	1635.8	3.9
30°-40°	2763.4	6.6
40°-50°	4855.3	11.6
50°-60°	9366.1	22.4
60°-70°	13588.9	32.6
70°-80°	7775.0	18.6
80°-90°	530.6	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°	41734.4	100.0
0°-180°	41734.4	100.0

Coefficient of Utilization



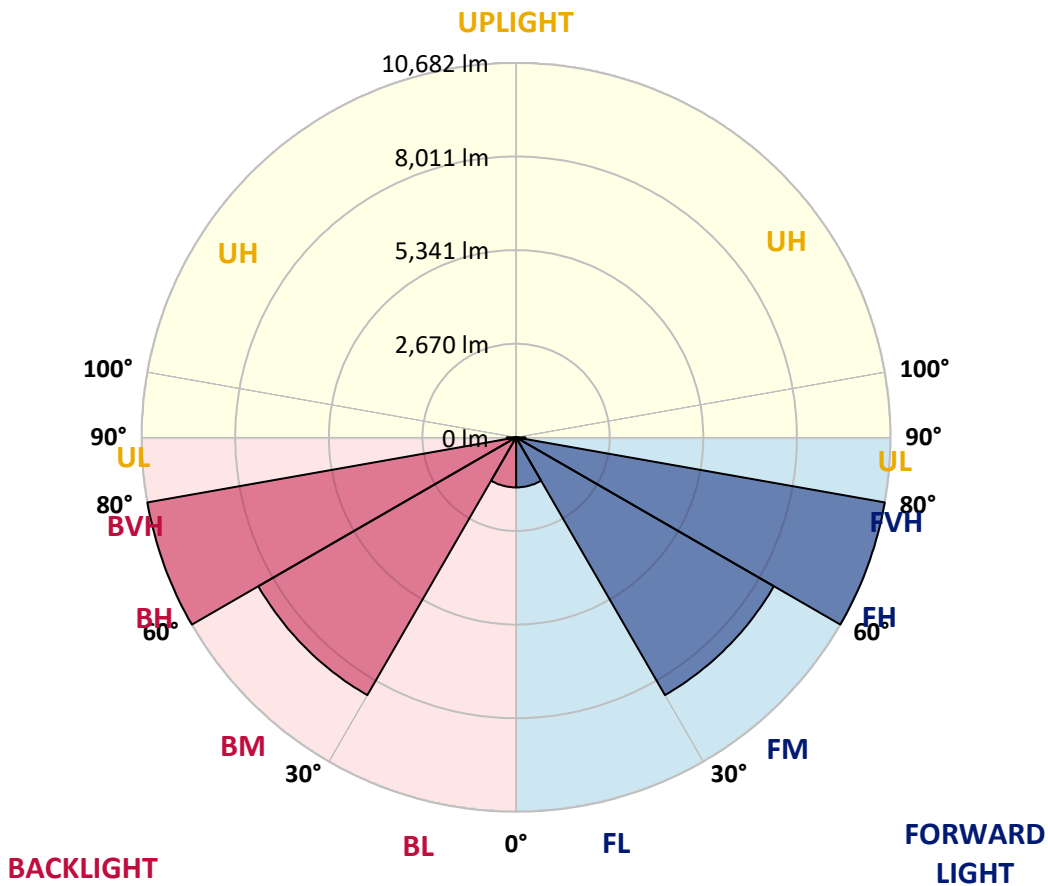
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1427.5	3.4			
FM (30°-60°)	8492.4	20.3			
FH (60°-80°)	10681.9	25.6			G4/12000
FVH (80°-90°)	265.3	0.6			G3/500
BL (0°-30°)	1427.5	3.4	B3/2500		
BM (30°-60°)	8492.4	20.3	B4/8500		
BH (60°-80°)	10681.9	25.6	B5		G4/12000
BVH (80°-90°)	265.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8
2.5°	3246.3	3249.2	3255.1	3255.1	3261.0	3269.9	3272.8	3266.9	3269.9	3255.1	3269.9
5°	3237.4	3240.4	3243.3	3237.4	3237.4	3240.4	3240.4	3234.5	3237.4	3222.7	3237.4
7.5°	3216.8	3219.7	3219.7	3210.9	3202.0	3207.9	3207.9	3202.0	3205.0	3190.2	3207.9
10°	3199.1	3199.1	3196.1	3178.4	3169.5	3178.4	3181.3	3184.3	3196.1	3184.3	3205.0
12.5°	3210.9	3210.9	3202.0	3178.4	3163.6	3169.5	3175.4	3181.3	3202.0	3199.1	3222.7
15°	3243.3	3246.3	3222.7	3196.1	3187.2	3196.1	3190.2	3187.2	3213.8	3222.7	3249.2
17.5°	3269.9	3269.9	3240.4	3213.8	3216.8	3231.5	3219.7	3205.0	3231.5	3249.2	3278.7
20°	3293.5	3290.5	3258.1	3240.4	3252.2	3272.8	3264.0	3243.3	3261.0	3281.7	3308.2
22.5°	3352.5	3349.6	3314.1	3305.3	3317.1	3337.8	3328.9	3311.2	3331.9	3361.4	3393.8
25°	3520.7	3514.8	3461.7	3432.2	3426.3	3441.0	3438.1	3432.2	3464.7	3500.1	3538.4
27.5°	3745.0	3742.1	3703.7	3674.2	3635.8	3624.0	3632.9	3659.4	3706.6	3733.2	3765.7
30°	3857.2	3857.2	3851.3	3898.5	3981.1	4060.8	3998.8	3898.5	3857.2	3845.4	3877.8
32.5°	4004.7	4019.5	3998.8	4051.9	4190.6	4308.7	4190.6	4028.3	3998.8	3998.8	4034.2
35°	4344.1	4350.0	4317.5	4308.7	4353.0	4367.7	4311.6	4252.6	4285.1	4291.0	4335.2
37.5°	4615.6	4615.6	4600.8	4624.5	4715.9	4772.0	4680.5	4574.3	4583.1	4589.0	4645.1
40°	5034.7	5046.5	5011.1	5008.1	5043.5	5093.7	4996.3	4928.4	4975.6	4990.4	5076.0
42.5°	5557.0	5557.0	5503.9	5489.1	5512.8	5565.9	5474.4	5430.1	5492.1	5503.9	5554.1
45°	6179.7	6194.5	6123.6	6097.1	6108.9	6126.6	6061.7	6041.0	6100.0	6126.6	6215.1
47.5°	6938.2	6952.9	6890.9	6888.0	6876.2	6888.0	6826.0	6814.2	6861.4	6840.8	6935.2
50°	7873.7	7900.2	7847.1	7920.9	7912.0	7947.5	7861.9	7799.9	7799.9	7743.8	7796.9
52.5°	8921.3	8974.5	9001.0	9125.0	9219.4	9307.9	9166.3	9068.9	8927.2	8812.1	8956.7
55°	10063.4	10048.7	10216.9	10488.4	10765.8	10975.3	10697.9	10391.0	10160.8	9921.8	9977.8
57.5°	11063.9	11114.0	11335.4	11831.2	12380.1	12822.8	12324.0	11733.8	11211.4	10869.1	10916.3
60°	11896.1	11937.4	12232.5	12946.7	13905.8	14516.7	13725.8	12751.9	11993.5	11521.3	11571.5
62.5°	12663.4	12701.8	12999.8	13787.8	14997.8	15794.6	14773.5	13442.5	12598.5	12123.3	12152.8
65°	13106.1	13129.7	13536.9	14366.2	15641.1	16464.5	15313.5	13941.2	13112.0	12628.0	12645.7
67.5°	12300.4	12338.8	13197.6	14342.6	15765.1	16476.3	15337.1	13956.0	13023.4	12391.9	12406.6
70°	9703.4	9670.9	10695.0	12663.4	15053.8	15980.5	14655.4	12908.3	11468.2	10585.8	10571.0
72.5°	7398.5	7407.4	7977.0	9325.6	12273.8	14746.9	12932.0	10394.0	8841.7	8171.7	8145.2
75°	5365.2	5447.8	5911.2	6899.8	8584.9	11022.6	9735.9	7702.5	6663.7	6262.3	6203.3
77.5°	2417.0	2523.2	3169.5	4332.3	5740.0	6091.2	6114.8	5229.4	3945.7	3278.7	3175.4
80°	705.3	755.5	970.9	1661.5	2673.7	3455.8	2744.6	2307.8	1437.2	1127.3	1074.2
82.5°	298.1	339.4	416.1	460.4	776.2	1602.5	997.5	634.5	590.2	478.1	436.8
85°	126.9	135.8	174.1	185.9	250.8	342.3	315.8	286.3	274.5	212.5	194.8
87.5°	53.1	53.1	53.1	47.2	44.3	47.2	64.9	82.6	109.2	85.6	79.7
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)