

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: P638841

Luminaire Tested: GWS-SA4F-760-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638841
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-SA4F-760-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24155.4 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G0

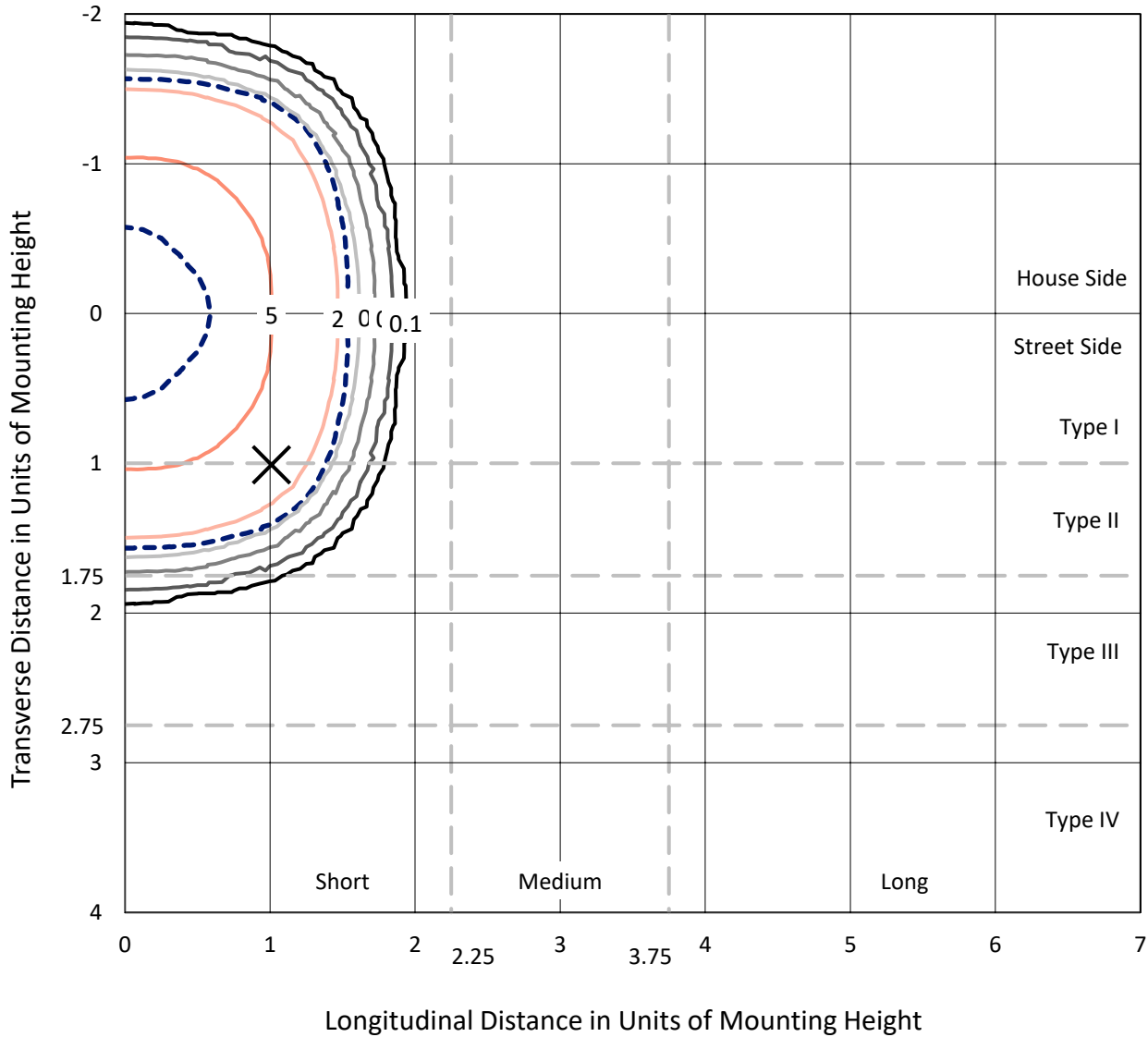
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638841
 CATALOG NUMBER: GWS-SA4F-760-U-5NQ-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

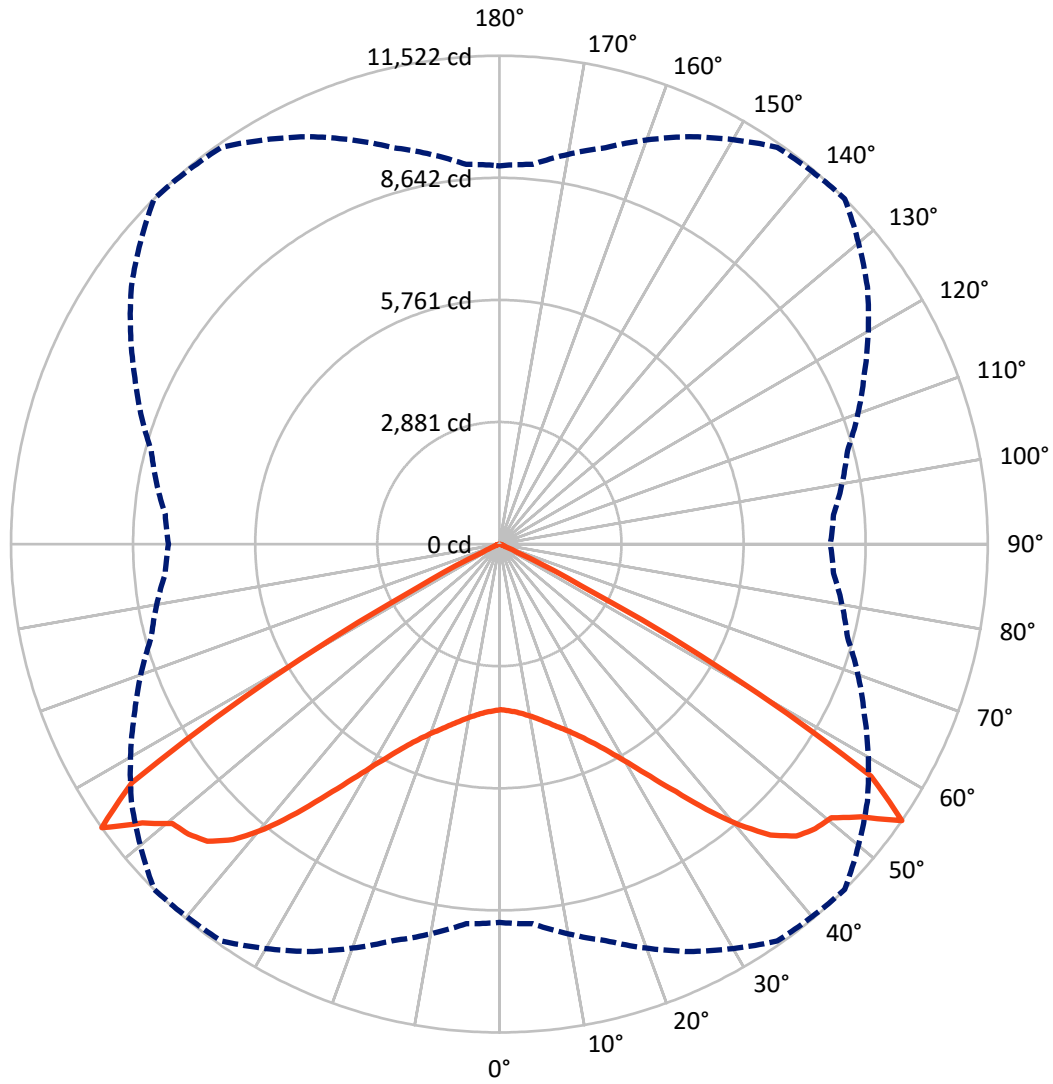
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

REPORT NUMBER: P638841
CATALOG NUMBER: GWS-SA4F-760-U-5NQ-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638841

CATALOG NUMBER: GWS-SA4F-760-U-5NQ-W-GRSBK

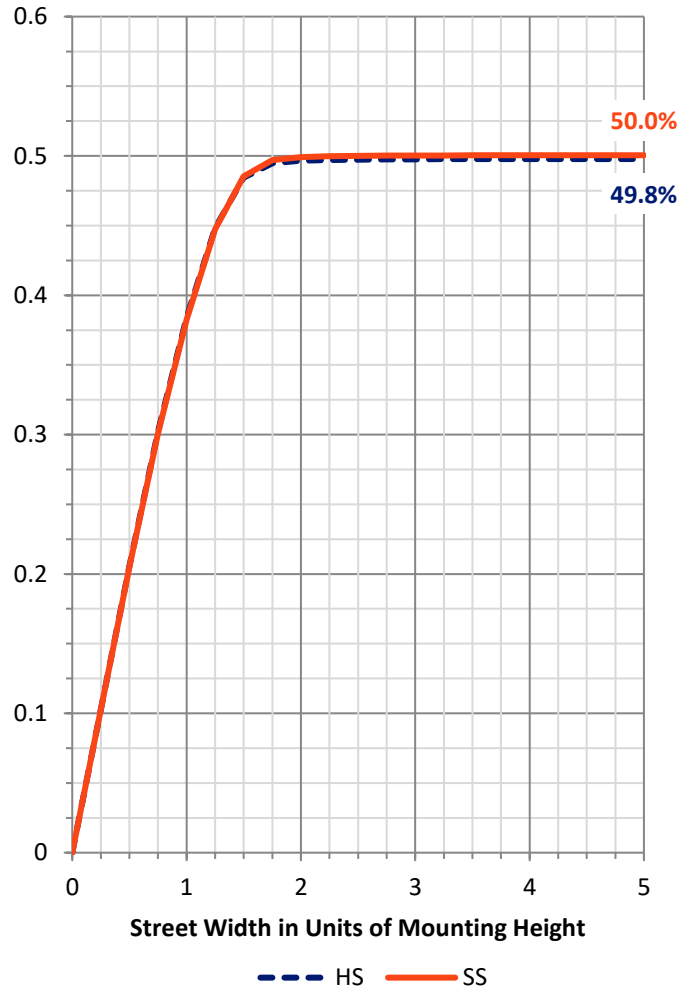
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12077.7	0.0	12077.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12077.7	0.0	12077.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	24155.4	0.0	24155.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.7	1.6
10°-20°	1240.4	5.1
20°-30°	2402.2	9.9
30°-40°	4303.6	17.8
40°-50°	7215.2	29.9
50°-60°	7723.6	32.0
60°-70°	848.7	3.5
70°-80°	37.4	0.2
80°-90°	1.8	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°	24155.4	100.0
0°-180°	24155.4	100.0

Coefficient of Utilization



REPORT NUMBER: P638841

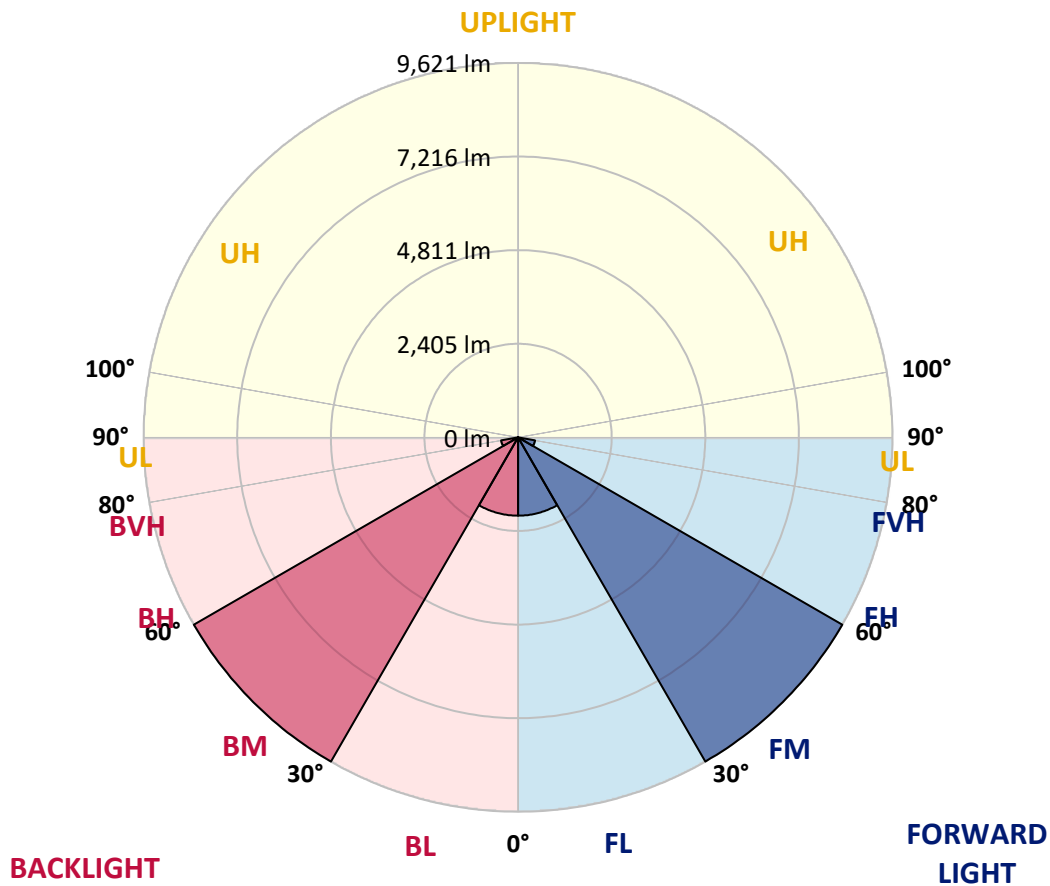
CATALOG NUMBER: GWS-SA4F-760-U-5NQ-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2012.6	8.3			
FM (30°-60°)	9621.2	39.8			
FH (60°-80°)	443.0	1.8			G0/660
FVH (80°-90°)	0.9	0.0			G0/10
BL (0°-30°)	2012.6	8.3	B3/2500		
BM (30°-60°)	9621.2	39.8	B5		
BH (60°-80°)	443.0	1.8	B1/500		G0/660
BVH (80°-90°)	0.9	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





REPORT NUMBER: P638841

CATALOG NUMBER: GWS-SA4F-760-U-5NQ-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5
2.5°	3898.1	3898.1	3907.9	3915.3	3915.3	3935.0	3927.6	3920.2	3920.2	3910.4	3930.1
5°	3954.7	3952.2	3962.1	3967.0	3957.1	3976.8	3964.5	3957.1	3952.2	3942.4	3962.1
7.5°	4016.2	4018.7	4021.1	4031.0	4026.0	4045.7	4035.9	4021.1	4016.2	4001.4	4021.1
10°	4090.0	4090.0	4095.0	4107.3	4109.7	4134.3	4124.5	4107.3	4092.5	4077.7	4097.4
12.5°	4183.5	4186.0	4193.4	4210.6	4220.5	4247.5	4232.8	4198.3	4176.2	4158.9	4181.1
15°	4318.9	4316.4	4326.3	4350.9	4363.2	4382.9	4360.7	4314.0	4286.9	4267.2	4282.0
17.5°	4466.5	4466.5	4471.5	4496.1	4513.3	4542.8	4515.8	4459.2	4434.6	4407.5	4422.3
20°	4629.0	4636.4	4641.3	4658.5	4688.0	4717.6	4695.4	4638.8	4611.7	4577.3	4594.5
22.5°	4843.1	4835.7	4838.1	4867.7	4909.5	4939.0	4921.8	4855.4	4808.6	4781.5	4791.4
25°	5081.8	5079.3	5086.7	5131.0	5177.8	5209.7	5185.1	5099.0	5052.2	5005.5	5025.2
27.5°	5374.6	5377.1	5382.0	5436.1	5510.0	5556.7	5495.2	5409.1	5345.1	5283.6	5298.3
30°	5721.6	5716.7	5731.5	5805.3	5913.6	5987.4	5916.0	5795.4	5704.4	5645.3	5652.7
32.5°	6090.7	6095.7	6135.0	6253.2	6395.9	6526.3	6381.1	6221.2	6103.1	5992.3	6007.1
35°	6489.4	6501.7	6590.3	6765.0	6998.8	7173.5	6971.8	6708.4	6541.1	6398.4	6403.3
37.5°	6959.5	6989.0	7112.0	7372.9	7707.6	7941.4	7646.0	7296.6	7080.0	6902.8	6890.5
40°	7577.1	7611.6	7778.9	8089.0	8495.1	8709.2	8367.1	8007.8	7739.6	7547.6	7518.1
42.5°	8285.9	8330.2	8512.3	8829.7	9235.8	9381.0	9046.3	8743.6	8502.4	8276.0	8266.2
45°	9085.7	9110.3	9257.9	9501.6	9794.4	9828.9	9577.9	9410.5	9166.9	8955.2	8938.0
47.5°	9836.3	9860.9	9961.8	10087.3	10156.2	10033.1	9988.8	9915.0	9600.0	9339.1	9285.0
50°	10407.2	10426.9	10552.4	10601.6	10409.6	10148.8	10234.9	10077.4	9735.4	9442.5	9358.8
52.5°	10367.8	10417.0	10739.4	11020.0	10899.4	10687.7	10456.4	10116.8	9585.2	9184.1	9080.8
55°	8925.7	8992.2	9683.7	10606.5	11430.9	11522.0	10596.7	9501.6	8502.4	7914.3	7808.5
57.5°	5736.4	5753.6	6597.7	7892.1	9750.1	10335.8	8787.9	7163.7	5920.9	5273.7	5229.4
60°	2109.0	2074.5	2711.9	3784.9	5615.8	6235.9	5172.8	3622.5	2584.0	2126.2	2089.3
62.5°	506.9	511.9	634.9	952.4	1762.0	2180.4	1722.6	962.2	612.8	514.3	509.4
65°	255.9	251.0	253.5	273.2	376.5	450.3	369.1	260.9	251.0	253.5	251.0
67.5°	164.9	162.4	167.3	169.8	167.3	157.5	155.0	160.0	160.0	162.4	157.5
70°	100.9	98.4	103.4	110.7	105.8	93.5	98.4	103.4	98.4	96.0	96.0
72.5°	54.1	54.1	59.1	64.0	59.1	54.1	54.1	56.6	54.1	54.1	54.1
75°	24.6	24.6	27.1	29.5	24.6	24.6	24.6	24.6	24.6	24.6	24.6
77.5°	7.4	7.4	9.8	9.8	7.4	7.4	7.4	7.4	9.8	9.8	9.8
80°	2.5	4.9	4.9	2.5	2.5	2.5	2.5	2.5	4.9	4.9	4.9
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	2.5	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5
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)