

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: P641211

Luminaire Tested: GWS-SA5F-740-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641211
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-740-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42314.3 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

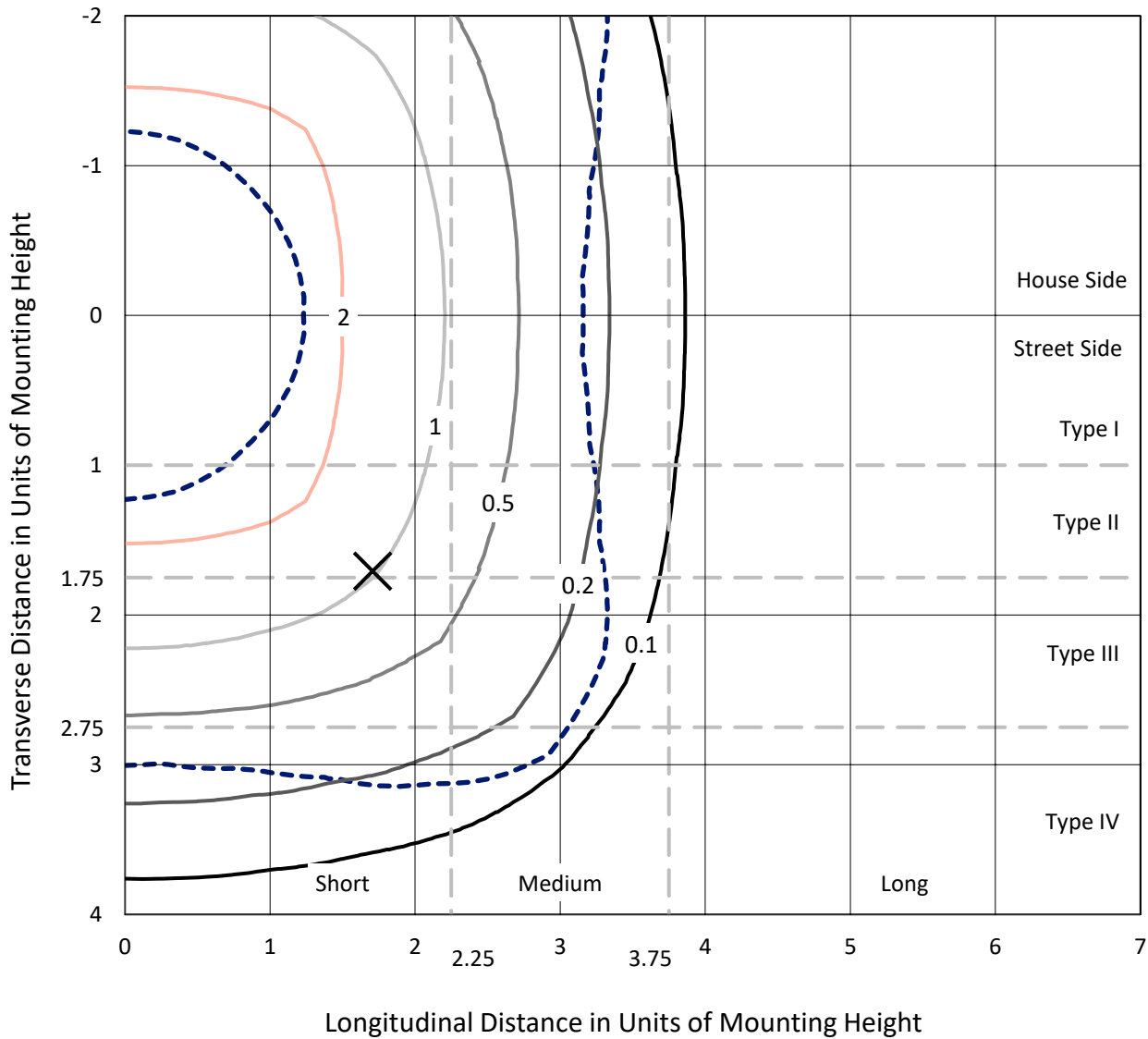
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

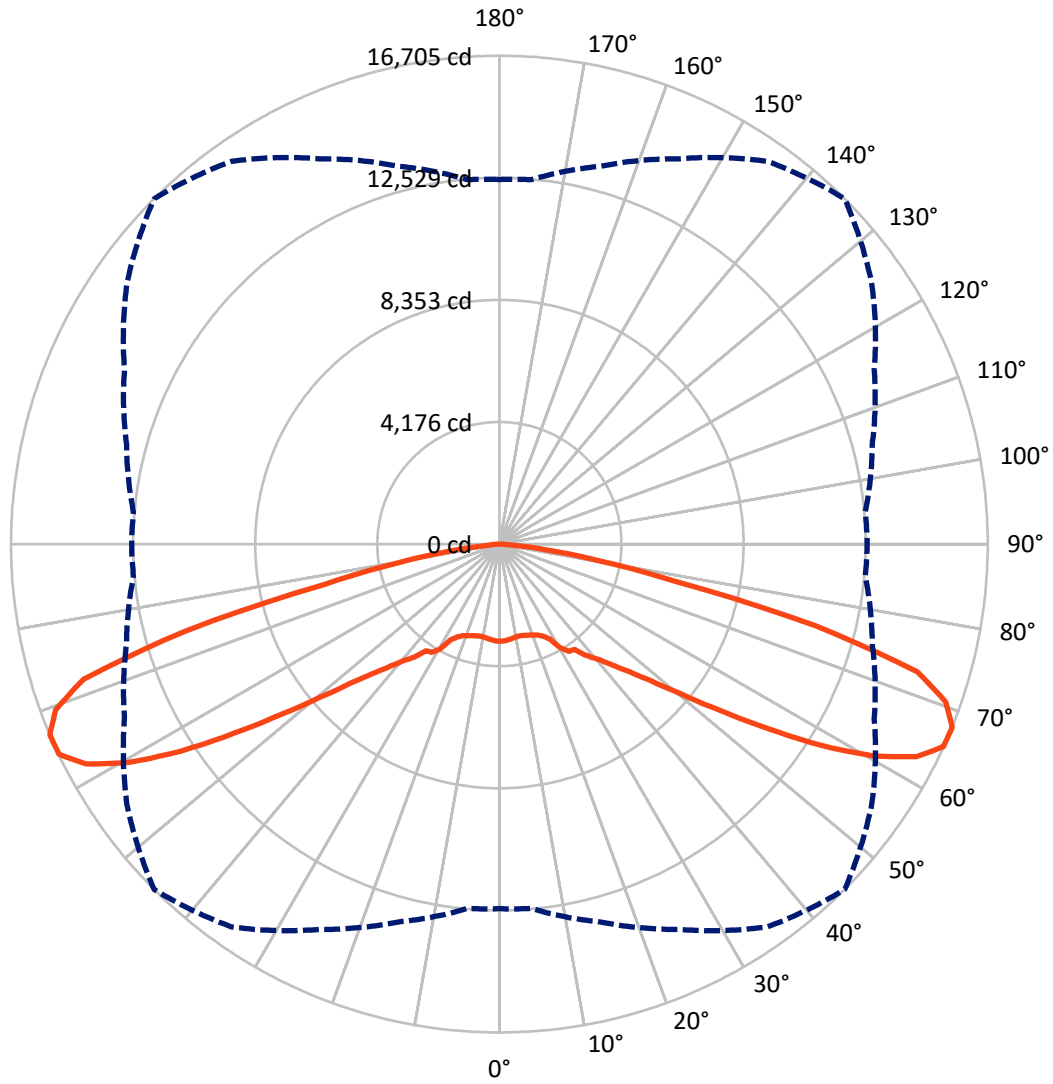
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.7 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	21157.2	0.0	21157.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21157.2	0.0	21157.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	42314.3	0.0	42314.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.6	0.7
10°-20°	924.6	2.2
20°-30°	1658.6	3.9
30°-40°	2801.8	6.6
40°-50°	4922.8	11.6
50°-60°	9496.2	22.4
60°-70°	13777.7	32.6
70°-80°	7883.0	18.6
80°-90°	538.0	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°	42314.3	100.0
0°-180°	42314.3	100.0

Coefficient of Utilization



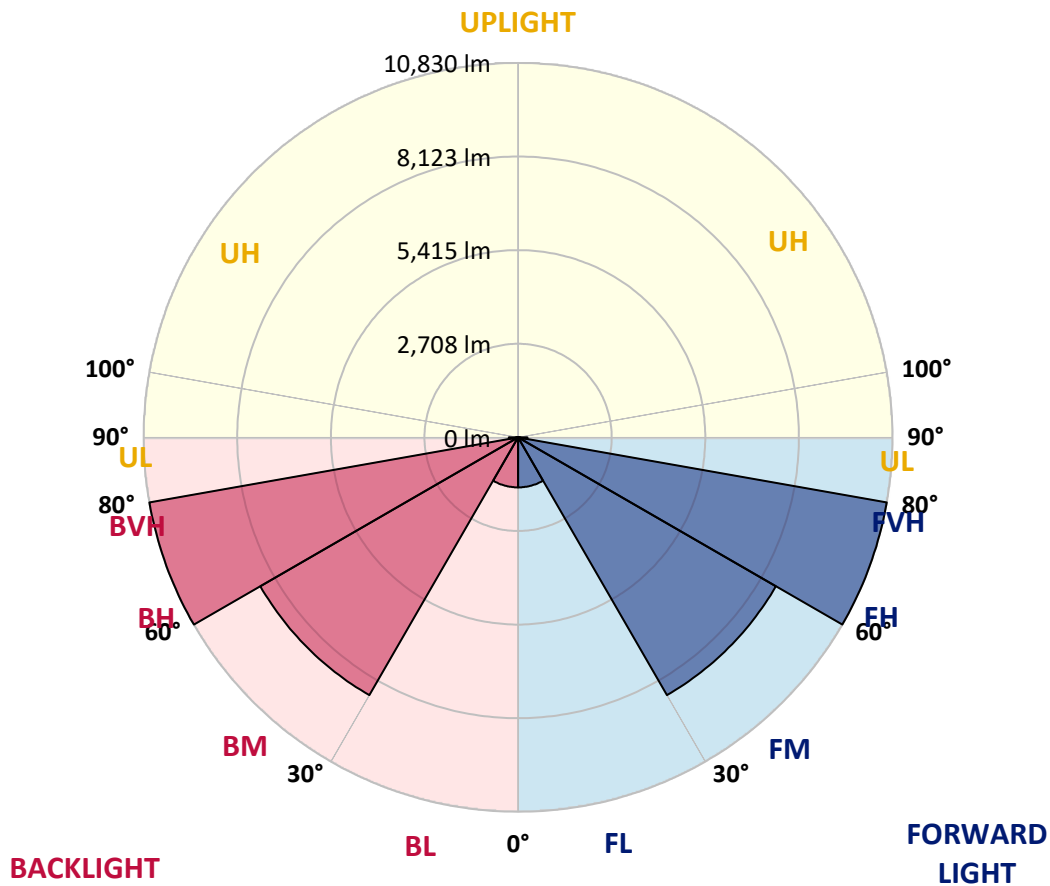
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1447.4	3.4			
FM (30°-60°)	8610.4	20.3			
FH (60°-80°)	10830.4	25.6			G4/12000
FVH (80°-90°)	269.0	0.6			G3/500
BL (0°-30°)	1447.4	3.4	B3/2500		
BM (30°-60°)	8610.4	20.3	B5		
BH (60°-80°)	10830.4	25.6	B5		G4/12000
BVH (80°-90°)	269.0	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°	3318.3	3318.3	3318.3	3318.3	3318.3	3318.3	3318.3	3318.3	3318.3	3318.3	3318.3
2.5°	3291.4	3294.4	3300.4	3300.4	3306.3	3315.3	3318.3	3312.3	3315.3	3300.4	3315.3
5°	3282.4	3285.4	3288.4	3282.4	3282.4	3285.4	3285.4	3279.4	3282.4	3267.4	3282.4
7.5°	3261.5	3264.4	3264.4	3255.5	3246.5	3252.5	3252.5	3246.5	3249.5	3234.5	3252.5
10°	3243.5	3243.5	3240.5	3222.6	3213.6	3222.6	3225.5	3228.5	3240.5	3228.5	3249.5
12.5°	3255.5	3255.5	3246.5	3222.6	3207.6	3213.6	3219.6	3225.5	3246.5	3243.5	3267.4
15°	3288.4	3291.4	3267.4	3240.5	3231.5	3240.5	3234.5	3231.5	3258.5	3267.4	3294.4
17.5°	3315.3	3315.3	3285.4	3258.5	3261.5	3276.4	3264.4	3249.5	3276.4	3294.4	3324.3
20°	3339.2	3336.3	3303.3	3285.4	3297.4	3318.3	3309.3	3288.4	3306.3	3327.3	3354.2
22.5°	3399.1	3396.1	3360.2	3351.2	3363.2	3384.1	3375.2	3357.2	3378.1	3408.1	3441.0
25°	3569.6	3563.7	3509.8	3479.9	3473.9	3488.9	3485.9	3479.9	3512.8	3548.7	3587.6
27.5°	3797.1	3794.1	3755.2	3725.2	3686.3	3674.4	3683.3	3710.3	3758.2	3785.1	3818.0
30°	3910.8	3910.8	3904.8	3952.6	4036.4	4117.2	4054.4	3952.6	3910.8	3898.8	3931.7
32.5°	4060.4	4075.3	4054.4	4108.2	4248.9	4368.6	4248.9	4084.3	4054.4	4054.4	4090.3
35°	4404.5	4410.4	4377.5	4368.6	4413.4	4428.4	4371.5	4311.7	4344.6	4350.6	4395.5
37.5°	4679.7	4679.7	4664.8	4688.7	4781.5	4838.3	4745.6	4637.8	4646.8	4652.8	4709.7
40°	5104.6	5116.6	5080.7	5077.7	5113.6	5164.5	5065.7	4996.9	5044.8	5059.7	5146.5
42.5°	5634.2	5634.2	5580.4	5565.4	5589.4	5643.2	5550.5	5505.6	5568.4	5580.4	5631.2
45°	6265.6	6280.5	6208.7	6181.8	6193.8	6211.7	6145.9	6125.0	6184.8	6211.7	6301.5
47.5°	7034.6	7049.5	6986.7	6983.7	6971.7	6983.7	6920.9	6908.9	6956.8	6935.8	7031.6
50°	7983.1	8010.0	7956.2	8031.0	8022.0	8057.9	7971.1	7908.3	7908.3	7851.4	7905.3
52.5°	9045.3	9099.2	9126.1	9251.8	9347.5	9437.3	9293.6	9194.9	9051.3	8934.6	9081.2
55°	10203.3	10188.3	10358.9	10634.1	10915.4	11127.8	10846.6	10535.4	10302.0	10059.6	10116.5
57.5°	11217.6	11268.5	11492.9	11995.6	12552.1	13000.9	12495.3	11896.8	11367.2	11020.1	11068.0
60°	12061.4	12103.3	12402.5	13126.6	14099.1	14718.4	13916.5	12929.1	12160.1	11681.4	11732.3
62.5°	12839.4	12878.3	13180.5	13979.4	15206.2	16014.0	14978.8	13629.3	12773.5	12291.8	12321.7
65°	13288.2	13312.1	13725.0	14565.8	15858.4	16693.3	15526.3	14135.0	13294.2	12803.5	12821.4
67.5°	12471.3	12510.2	13380.9	14541.9	15984.1	16705.2	15550.3	14149.9	13204.4	12564.1	12579.0
70°	9838.2	9805.3	10843.6	12839.4	15263.0	16202.5	14859.1	13087.7	11627.5	10732.9	10717.9
72.5°	7501.3	7510.3	8087.8	9455.2	12444.4	14951.8	13111.6	10538.4	8964.5	8285.3	8258.4
75°	5439.7	5523.5	5993.3	6995.7	8704.2	11175.7	9871.1	7809.5	6756.3	6349.4	6289.5
77.5°	2450.6	2558.3	3213.6	4392.5	5819.8	6175.8	6199.8	5302.1	4000.5	3324.3	3219.6
80°	715.1	766.0	984.4	1684.6	2710.9	3503.8	2782.7	2339.9	1457.2	1143.0	1089.1
82.5°	302.2	344.1	421.9	466.8	786.9	1624.7	1011.3	643.3	598.4	484.7	442.8
85°	128.7	137.6	176.5	188.5	254.3	347.1	320.2	290.2	278.3	215.4	197.5
87.5°	53.9	53.9	53.9	47.9	44.9	47.9	65.8	83.8	110.7	86.8	80.8
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)