

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: P640714

Luminaire Tested: GWS-SA5E-740-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-740-U-5WQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19756 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

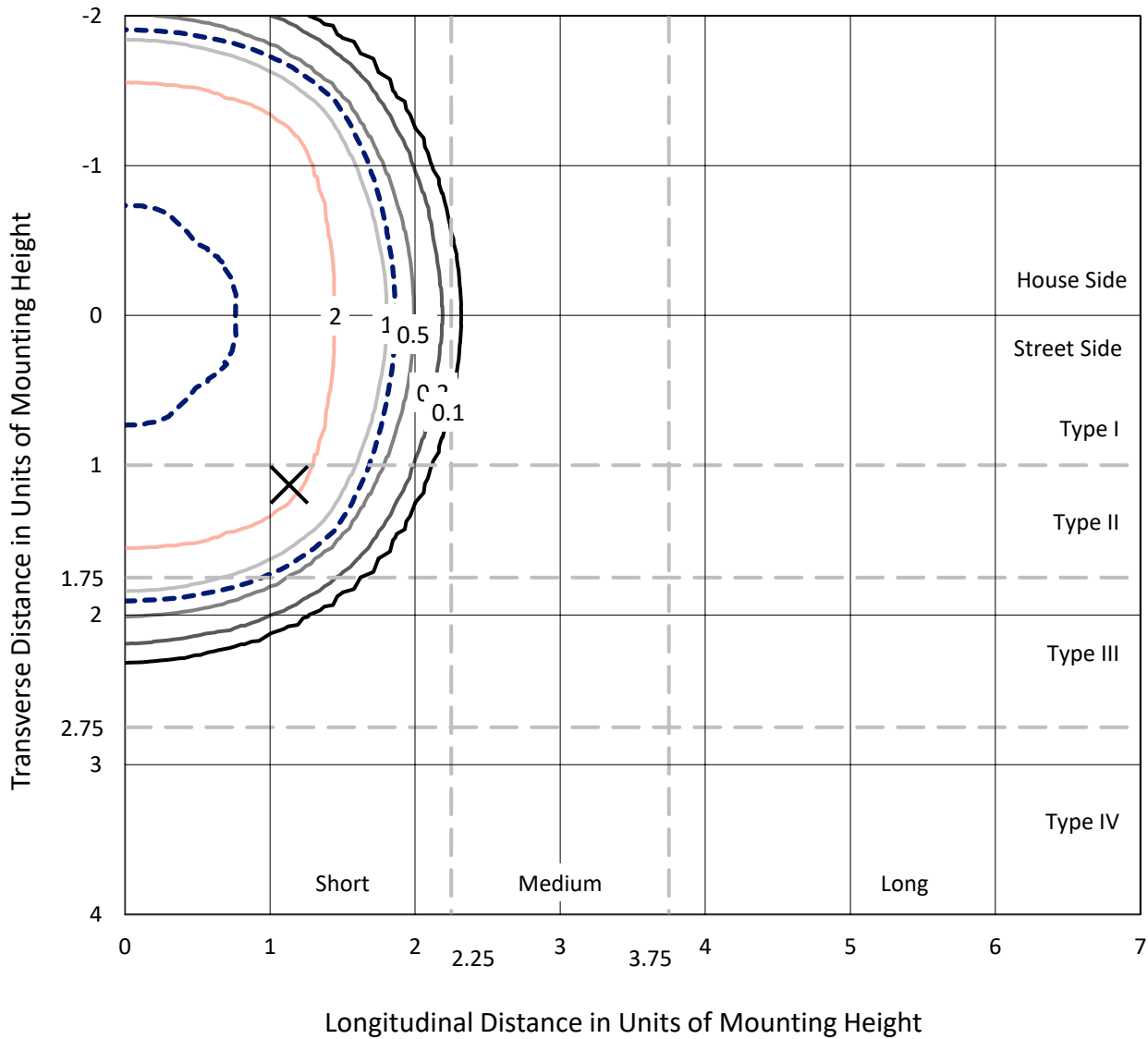
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

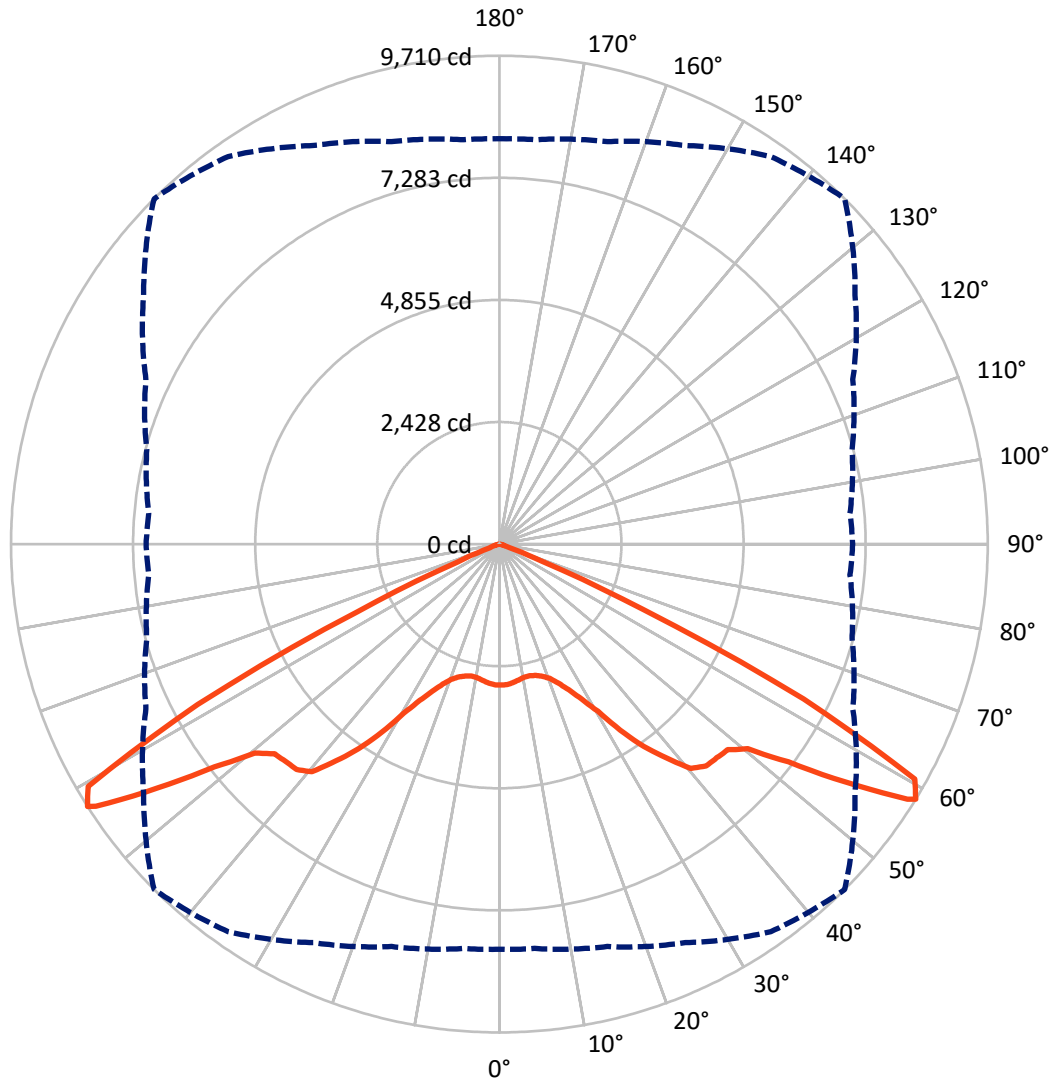
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9878.0	0.0	9878.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9878.0	0.0	9878.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19756.0	0.0	19756.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.4	1.3
10°-20°	773.5	3.9
20°-30°	1462.8	7.4
30°-40°	2885.0	14.6
40°-50°	4565.5	23.1
50°-60°	6711.0	34.0
60°-70°	2995.5	15.2
70°-80°	100.4	0.5
80°-90°	0.8	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°	19756.0	100.0
0°-180°	19756.0	100.0

Coefficient of Utilization



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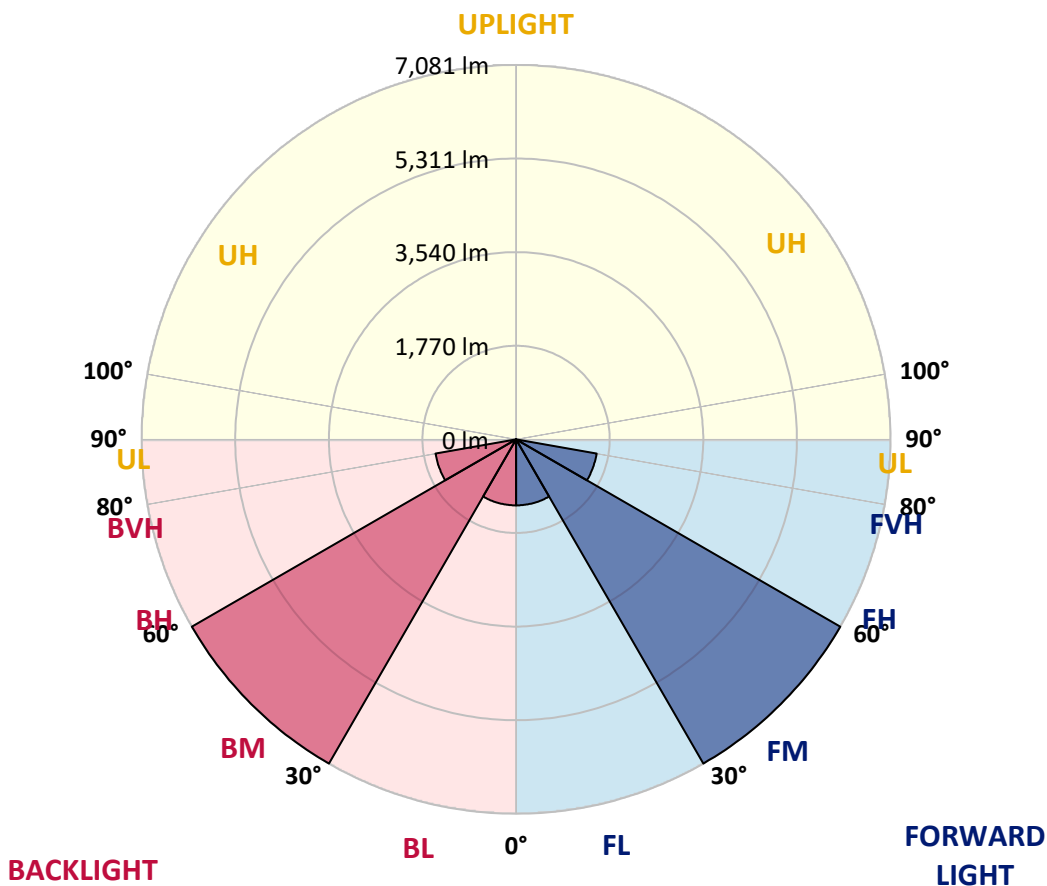
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.8	6.3			
FM (30°-60°)	7080.8	35.8			
FH (60°-80°)	1547.9	7.8			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	1248.8	6.3	B3/2500		
BM (30°-60°)	7080.8	35.8	B4/8500		
BH (60°-80°)	1547.9	7.8	B3/2500		G1/1800
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2801.7	2801.7	2801.7	2801.7	2801.7	2801.7	2801.7	2801.7	2801.7	2801.7	2801.7
2.5°	2774.8	2780.1	2785.5	2788.2	2790.9	2799.0	2801.7	2793.6	2793.6	2777.4	2796.3
5°	2761.3	2766.7	2772.1	2769.4	2769.4	2769.4	2766.7	2755.9	2753.2	2737.1	2755.9
7.5°	2737.1	2742.5	2742.5	2734.4	2729.0	2729.0	2726.3	2712.9	2710.2	2694.0	2712.9
10°	2718.2	2720.9	2718.2	2702.1	2691.3	2691.3	2688.6	2683.2	2685.9	2675.2	2691.3
12.5°	2729.0	2731.7	2720.9	2699.4	2685.9	2683.2	2675.2	2667.1	2675.2	2672.5	2688.6
15°	2764.0	2766.7	2747.8	2720.9	2710.2	2710.2	2688.6	2667.1	2677.9	2680.6	2699.4
17.5°	2807.0	2807.0	2782.8	2758.6	2761.3	2761.3	2726.3	2688.6	2691.3	2702.1	2720.9
20°	2858.2	2858.2	2834.0	2828.6	2847.4	2850.1	2807.0	2747.8	2734.4	2742.5	2764.0
22.5°	2949.7	2949.7	2930.8	2944.3	2987.4	3000.8	2936.2	2852.8	2820.5	2825.9	2847.4
25°	3092.3	3092.3	3086.9	3119.2	3181.1	3210.7	3124.6	3014.3	2960.5	2952.4	2976.6
27.5°	3331.9	3334.5	3326.5	3374.9	3453.0	3488.0	3369.5	3224.2	3159.6	3146.2	3170.4
30°	3641.4	3641.4	3644.0	3711.3	3813.6	3859.4	3703.3	3533.7	3458.3	3415.3	3447.6
32.5°	3985.8	3991.2	4018.1	4131.2	4311.5	4405.7	4176.9	3940.1	3819.0	3773.2	3808.2
35°	4553.7	4502.6	4470.3	4553.7	4814.8	4938.6	4645.2	4368.0	4276.5	4271.1	4359.9
37.5°	5116.2	5086.6	5019.3	5105.4	5339.6	5396.1	5073.1	4841.7	4777.1	4812.1	4900.9
40°	5563.0	5509.1	5420.3	5501.1	5807.9	5864.4	5466.1	5237.3	5213.1	5291.1	5412.2
42.5°	5915.5	5840.2	5721.7	5740.6	5988.2	6028.6	5676.0	5503.7	5519.9	5616.8	5754.0
45°	6074.3	6015.1	5910.1	5902.1	6058.2	6060.9	5783.6	5694.8	5737.9	5813.3	5920.9
47.5°	6141.6	6114.7	6055.5	6042.0	6130.8	6109.3	5937.1	5899.4	5939.7	5961.3	6023.2
50°	6308.5	6308.5	6316.5	6327.3	6418.8	6397.3	6276.2	6233.1	6182.0	6106.6	6125.4
52.5°	6776.7	6795.6	6873.6	6959.8	7126.6	7196.6	7000.1	6749.8	6504.9	6340.7	6340.7
55°	7621.8	7640.7	7732.2	7877.5	8184.3	8351.2	7893.6	7341.9	7005.5	6782.1	6811.7
57.5°	8087.4	8108.9	8297.3	8690.3	9285.1	9567.6	8585.3	7767.1	7296.2	7040.5	7062.0
58°	8057.8	8071.3	8283.9	8744.1	9406.2	9710.3	8633.8	7753.7	7258.5	6997.4	7024.3
60°	7158.9	7140.1	7479.2	8135.9	9069.7	9489.6	8152.0	7078.2	6502.2	6235.8	6249.2
62.5°	4680.2	4691.0	4984.3	5670.6	6397.3	6792.9	5694.8	4895.5	4432.6	4271.1	4230.8
65°	1953.9	1918.9	2099.2	2481.4	2917.4	3138.1	2696.7	2282.2	1997.0	1889.3	1918.9
67.5°	503.3	489.8	500.6	627.1	767.0	907.0	761.6	581.3	506.0	511.4	511.4
70°	285.3	269.1	218.0	201.8	196.5	196.5	196.5	196.5	226.1	266.4	274.5
72.5°	215.3	201.8	158.8	137.3	121.1	113.0	118.4	137.3	164.2	199.2	204.5
75°	107.7	107.7	96.9	91.5	80.7	75.4	78.0	86.1	99.6	113.0	110.3
77.5°	21.5	24.2	26.9	32.3	26.9	26.9	26.9	32.3	32.3	35.0	32.3
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
82.5°	0.0	2.7	2.7	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)