

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: P637738

Luminaire Tested: GWS-SA4D-740-U-5MQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-740-U-5MQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14962.5 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

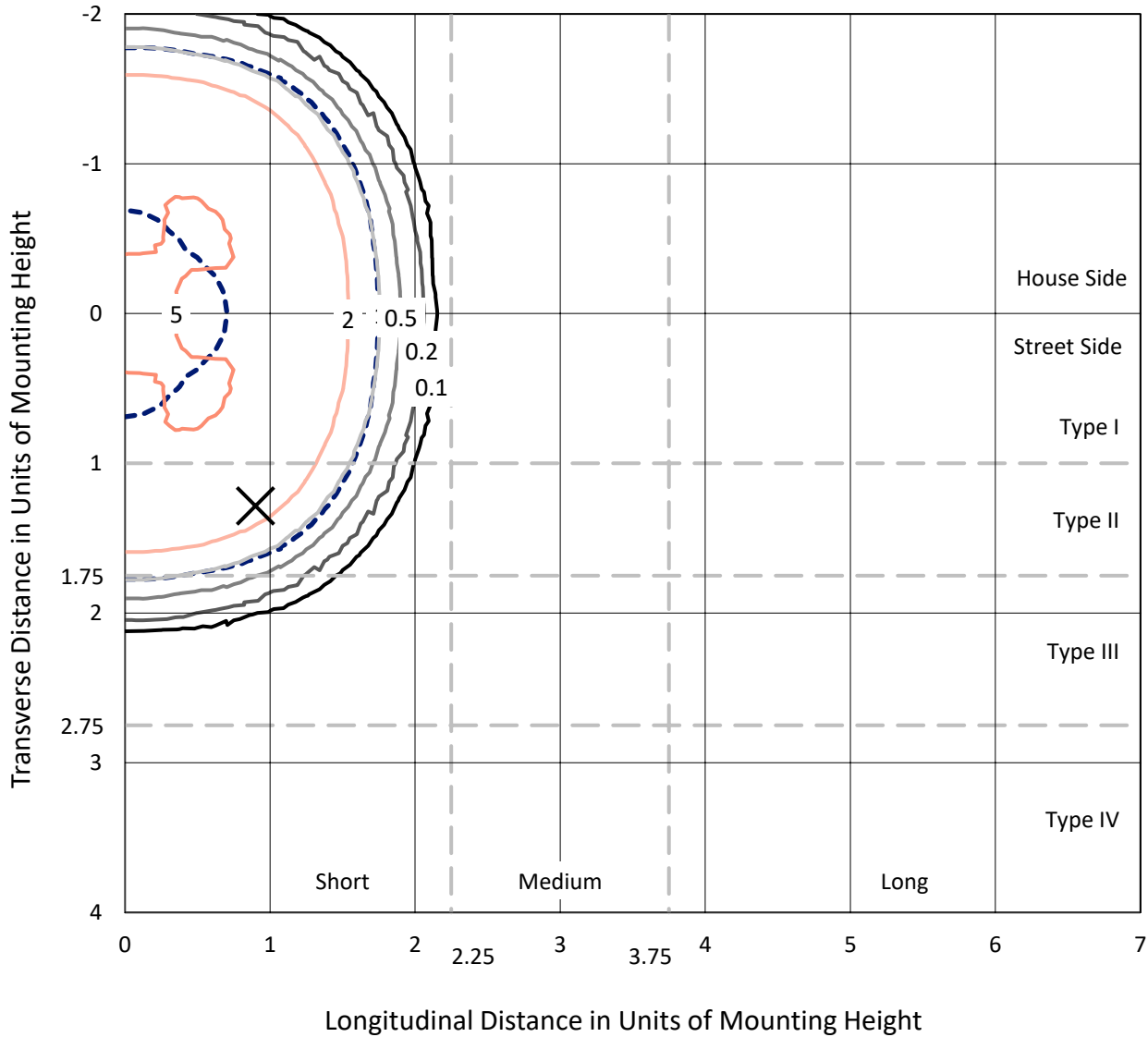
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637738
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Iso-Footcandle Lines of Horizontal Illumination

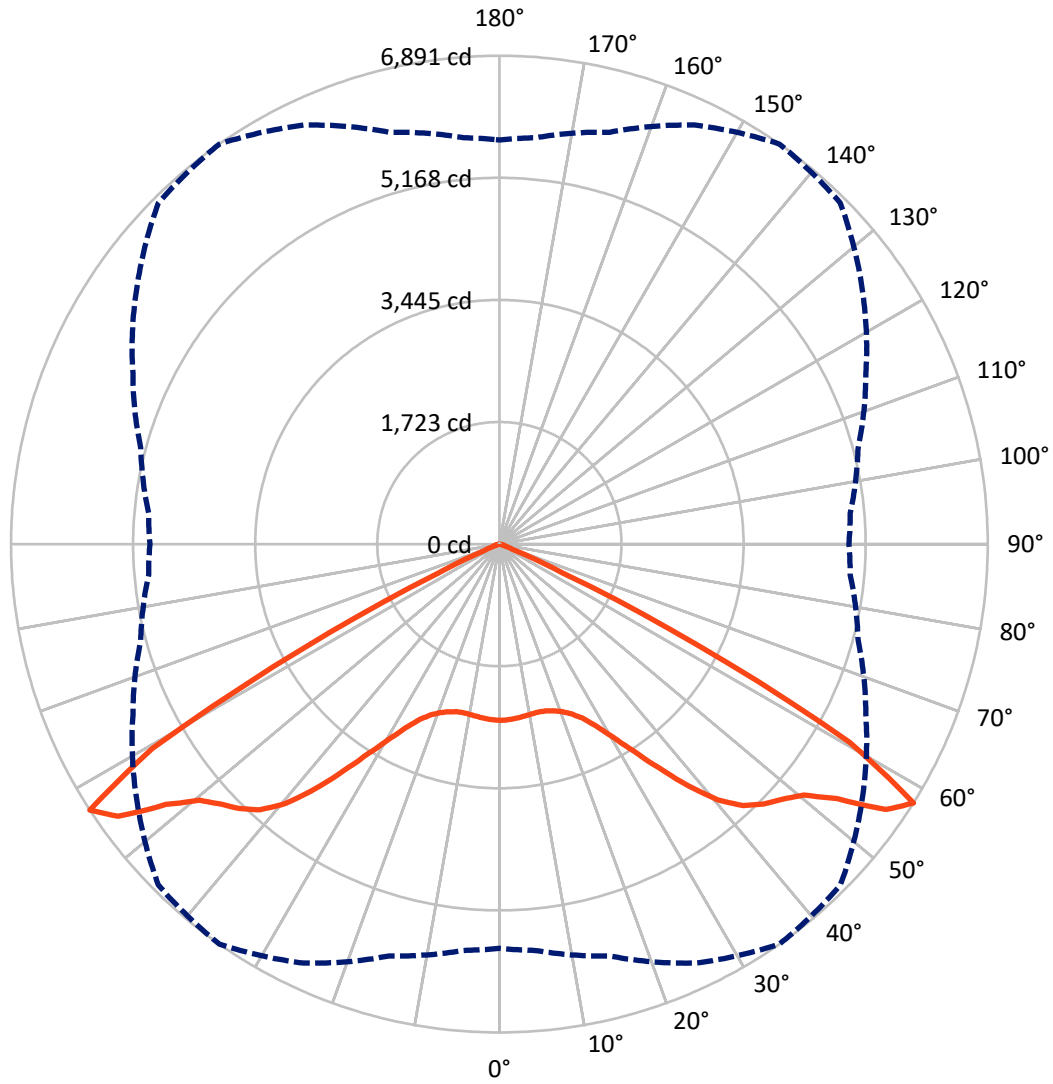
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

REPORT NUMBER: P637738
CATALOG NUMBER: GWS-SA4D-740-U-5MQ-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P637738

CATALOG NUMBER: GWS-SA4D-740-U-5MQ-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7481.3	0.0	7481.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7481.3	0.0	7481.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	14962.5	0.0	14962.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.4	1.6
10°-20°	689.4	4.6
20°-30°	1246.2	8.3
30°-40°	2324.9	15.5
40°-50°	3900.0	26.1
50°-60°	5150.3	34.4
60°-70°	1367.8	9.1
70°-80°	48.6	0.3
80°-90°	0.9	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°	14962.5	100.0
0°-180°	14962.5	100.0

Coefficient of Utilization



REPORT NUMBER: P637738

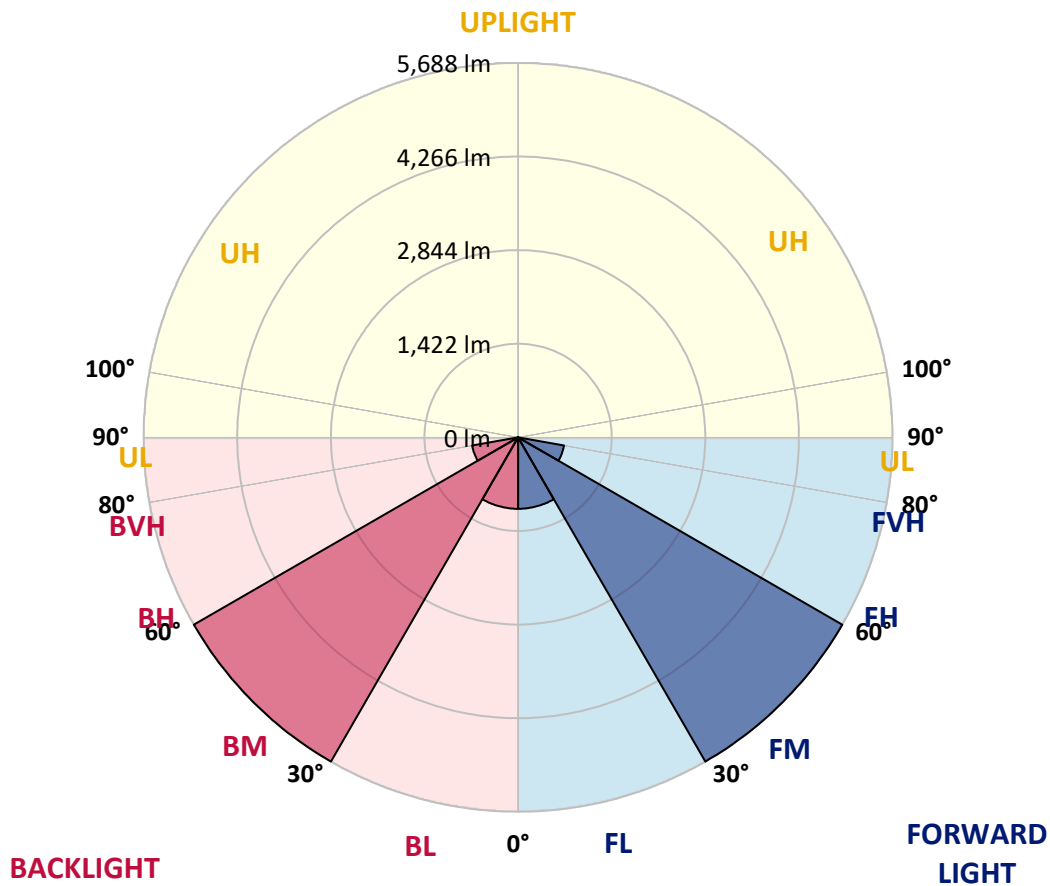
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1085.0	7.3			
FM (30°-60°)	5687.6	38.0			
FH (60°-80°)	708.2	4.7			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	1085.0	7.3	B3/2500		
BM (30°-60°)	5687.6	38.0	B4/8500		
BH (60°-80°)	708.2	4.7	B2/1000		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°	2487.7	2487.7	2487.7	2487.7	2487.7	2487.7	2487.7	2487.7	2487.7	2487.7	2487.7
2.5°	2470.1	2468.3	2475.4	2480.6	2480.6	2492.9	2489.4	2485.9	2482.4	2477.1	2489.4
5°	2466.6	2464.8	2470.1	2473.6	2470.1	2480.6	2473.6	2466.6	2463.1	2456.0	2470.1
7.5°	2450.8	2452.5	2456.0	2459.6	2454.3	2463.1	2454.3	2443.8	2435.0	2428.0	2440.2
10°	2426.2	2428.0	2431.5	2438.5	2440.2	2452.5	2440.2	2420.9	2408.6	2398.1	2410.4
12.5°	2413.9	2415.7	2420.9	2429.7	2431.5	2447.3	2431.5	2403.4	2385.8	2373.5	2385.8
15°	2417.4	2420.9	2428.0	2438.5	2442.0	2457.8	2436.7	2399.9	2375.3	2359.5	2370.0
17.5°	2429.7	2433.2	2443.8	2461.3	2473.6	2489.4	2463.1	2415.7	2382.3	2359.5	2370.0
20°	2445.5	2450.8	2468.3	2496.4	2522.8	2550.9	2517.5	2452.5	2408.6	2380.6	2389.3
22.5°	2489.4	2494.7	2519.3	2556.1	2600.0	2635.1	2594.7	2512.2	2452.5	2415.7	2424.4
25°	2578.9	2584.2	2615.8	2663.2	2719.4	2765.0	2714.1	2610.5	2533.3	2491.2	2494.7
27.5°	2719.4	2724.7	2761.5	2828.2	2903.7	2968.7	2894.9	2773.8	2686.0	2636.9	2636.9
30°	2896.7	2903.7	2952.9	3042.4	3160.0	3246.1	3146.0	2998.5	2886.2	2819.5	2821.2
32.5°	3124.9	3117.9	3188.1	3311.0	3477.8	3591.9	3444.4	3265.4	3126.7	3033.6	3042.4
35°	3418.1	3416.3	3495.4	3662.1	3879.8	4016.8	3841.2	3609.5	3442.7	3347.9	3349.6
37.5°	3795.6	3793.8	3885.1	4065.9	4327.5	4441.6	4245.0	4009.7	3830.7	3739.4	3749.9
40°	4238.0	4227.4	4308.2	4482.0	4743.6	4817.3	4603.1	4413.5	4241.5	4183.5	4211.6
42.5°	4659.3	4636.5	4683.9	4841.9	5043.8	5054.3	4892.8	4762.9	4645.3	4599.6	4617.2
45°	4998.1	4980.6	5024.5	5115.7	5231.6	5178.9	5101.7	5061.3	4966.5	4917.4	4933.2
47.5°	5250.9	5250.9	5303.6	5359.8	5377.3	5280.8	5293.1	5293.1	5198.3	5121.0	5101.7
50°	5468.6	5484.4	5563.4	5621.4	5563.4	5440.5	5510.8	5496.7	5303.6	5149.1	5108.7
52.5°	5816.2	5832.0	5953.2	6032.2	5967.2	5846.1	5854.8	5679.3	5394.9	5212.3	5149.1
55°	6184.9	6223.5	6399.1	6609.7	6611.5	6486.9	6255.1	5944.4	5598.5	5400.1	5335.2
57.5°	5702.1	5754.8	6016.4	6523.7	6890.6	6804.6	6251.6	5705.6	5238.6	4968.3	4931.4
60°	3923.7	4015.0	4276.6	4970.0	5677.5	5710.9	5057.8	4445.1	3909.7	3576.1	3583.1
62.5°	1657.3	1750.3	1897.8	2468.3	3117.9	3158.3	2842.3	2403.4	1966.2	1725.7	1762.6
65°	389.7	416.1	460.0	682.9	990.1	1035.8	955.0	744.4	549.5	465.2	474.0
67.5°	170.3	173.8	165.0	175.6	217.7	223.0	215.9	189.6	179.1	182.6	182.6
70°	119.4	121.1	114.1	108.8	103.6	96.6	100.1	110.6	119.4	126.4	124.6
72.5°	73.7	75.5	77.2	77.2	72.0	65.0	68.5	75.5	77.2	79.0	77.2
75°	36.9	38.6	42.1	43.9	42.1	40.4	40.4	42.1	42.1	40.4	40.4
77.5°	7.0	8.8	12.3	14.0	14.0	14.0	14.0	14.0	15.8	14.0	14.0
80°	1.8	1.8	3.5	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5
82.5°	1.8	1.8	1.8	1.8	0.0	0.0	1.8	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
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)