

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: P637635

Luminaire Tested: GWS-SA4D-730-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-5WQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18833.4 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

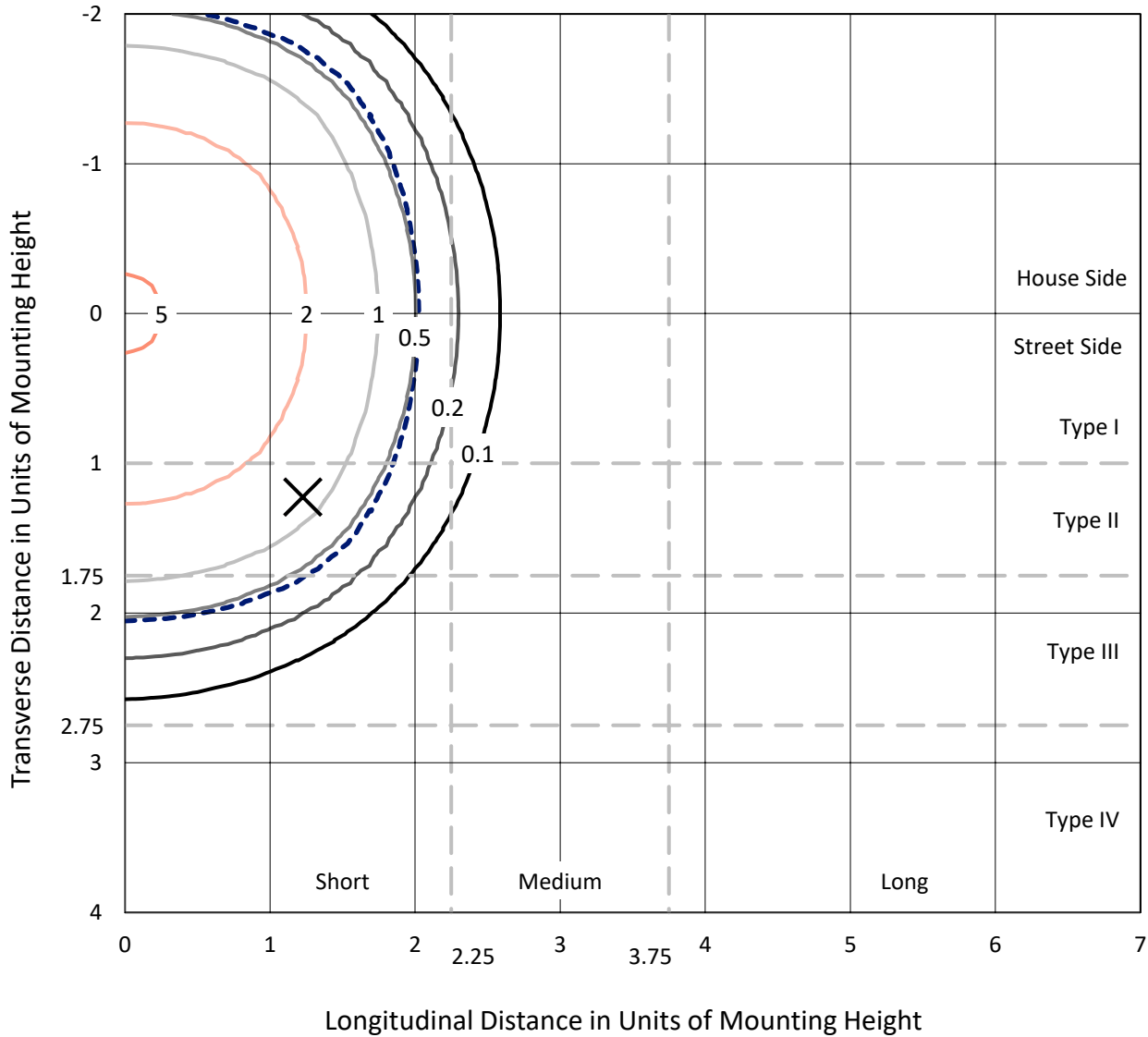
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

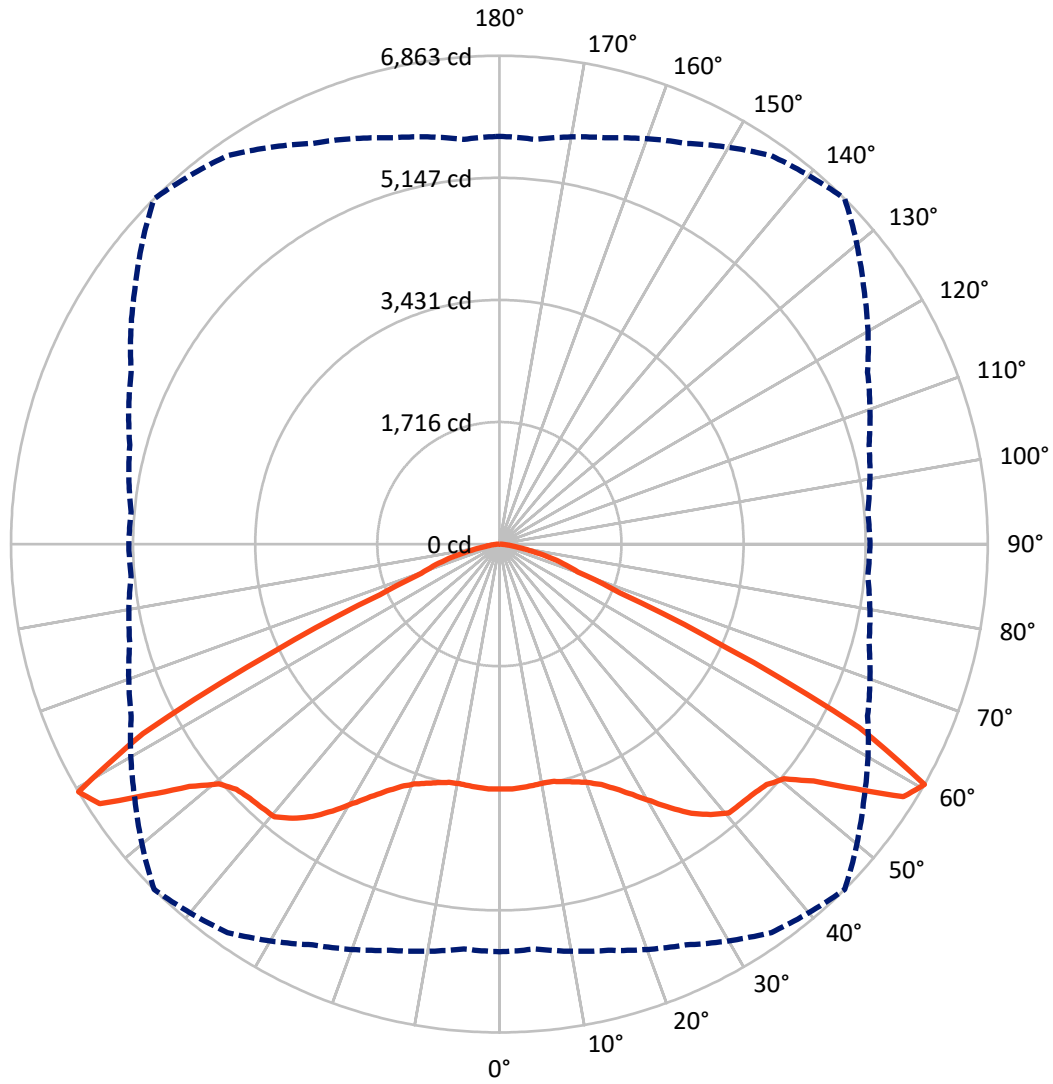
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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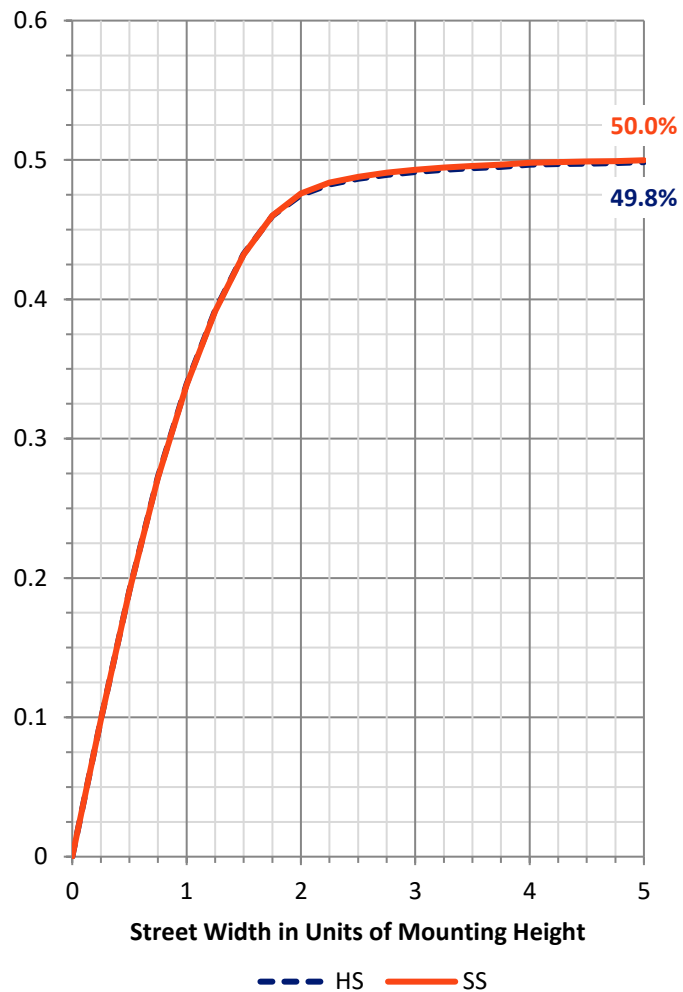
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9416.7	0.0	9416.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9416.7	0.0	9416.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	18833.4	0.0	18833.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.4	1.7
10°-20°	981.8	5.2
20°-30°	1736.9	9.2
30°-40°	2796.5	14.8
40°-50°	3843.7	20.4
50°-60°	5122.1	27.2
60°-70°	3192.3	17.0
70°-80°	734.1	3.9
80°-90°	99.6	0.5
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°	18833.4	100.0
0°-180°	18833.4	100.0

Coefficient of Utilization



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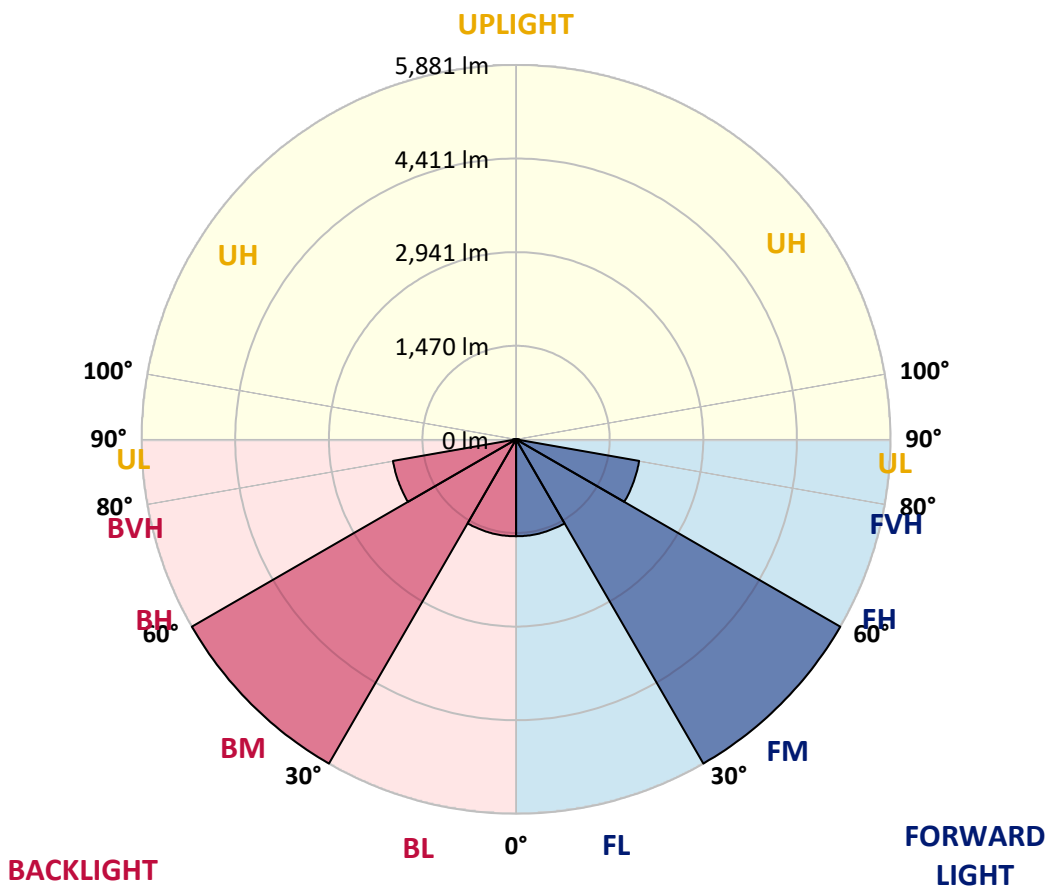
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1522.5	8.1			
FM (30°-60°)	5881.1	31.2			
FH (60°-80°)	1963.2	10.4			G2/5000
FVH (80°-90°)	49.8	0.3			G1/100
BL (0°-30°)	1522.5	8.1	B3/2500		
BM (30°-60°)	5881.1	31.2	B4/8500		
BH (60°-80°)	1963.2	10.4	B3/2500		G2/5000
BVH (80°-90°)	49.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8
2.5°	3417.8	3421.0	3427.4	3432.2	3438.6	3445.0	3448.2	3441.8	3438.6	3425.8	3440.2
5°	3421.0	3424.2	3429.0	3429.0	3430.6	3435.4	3435.4	3427.4	3419.4	3405.0	3421.0
7.5°	3416.2	3419.4	3421.0	3419.4	3421.0	3422.6	3419.4	3409.8	3401.8	3389.0	3401.8
10°	3408.2	3411.4	3414.6	3411.4	3408.2	3413.0	3413.0	3406.6	3401.8	3389.0	3403.4
12.5°	3425.8	3430.6	3432.2	3424.2	3421.0	3422.6	3422.6	3416.2	3416.2	3405.0	3421.0
15°	3467.4	3470.6	3465.8	3456.2	3457.8	3462.6	3451.4	3435.4	3432.2	3427.4	3440.2
17.5°	3499.3	3502.5	3497.7	3491.3	3502.5	3513.7	3492.9	3462.6	3453.0	3449.8	3464.2
20°	3534.5	3539.3	3532.9	3540.9	3563.3	3576.1	3550.5	3508.9	3489.7	3484.9	3502.5
22.5°	3592.0	3598.4	3598.4	3616.0	3649.6	3670.4	3638.4	3582.5	3553.7	3545.7	3563.3
25°	3683.2	3688.0	3692.8	3727.9	3782.3	3811.1	3759.9	3683.2	3643.2	3630.4	3640.0
27.5°	3809.5	3817.4	3825.4	3876.6	3943.7	3985.3	3911.8	3815.8	3766.3	3740.7	3759.9
30°	3959.7	3970.9	3990.1	4047.6	4142.0	4188.3	4094.0	3977.3	3921.4	3894.2	3919.8
32.5°	4164.3	4165.9	4180.3	4244.3	4369.0	4421.7	4303.4	4173.9	4116.4	4084.4	4098.8
35°	4407.3	4408.9	4386.5	4452.1	4586.4	4645.5	4506.4	4375.4	4327.4	4317.8	4354.6
37.5°	4656.7	4642.3	4619.9	4648.7	4784.6	4823.0	4675.9	4564.0	4543.2	4560.8	4615.1
40°	4834.2	4810.2	4765.4	4786.2	4923.7	4968.4	4811.8	4706.3	4699.9	4743.0	4808.6
42.5°	4949.3	4923.7	4870.9	4870.9	4965.2	4984.4	4862.9	4807.0	4821.4	4870.9	4933.3
45°	5005.2	4990.8	4960.4	4944.5	4997.2	5005.2	4912.5	4890.1	4917.3	4941.3	4989.2
47.5°	5048.4	5048.4	5038.8	5022.8	5046.8	5051.6	4982.8	4976.4	5011.6	5011.6	5043.6
50°	5125.1	5133.1	5145.9	5142.7	5168.3	5184.2	5133.1	5123.5	5137.9	5091.5	5107.5
52.5°	5326.5	5347.3	5384.1	5412.8	5478.4	5527.9	5436.8	5360.1	5285.0	5182.6	5185.8
55°	5687.8	5697.4	5769.3	5854.1	5964.4	6065.1	5878.0	5639.8	5476.8	5356.9	5358.5
57.5°	5993.1	6007.5	6113.0	6290.5	6538.3	6694.9	6280.9	5882.8	5652.6	5505.6	5510.4
60°	5729.4	5710.2	5910.0	6213.7	6662.9	6862.8	6252.1	5708.6	5377.7	5195.4	5208.2
62.5°	4432.9	4396.1	4618.3	4936.5	5475.2	5675.0	5112.3	4591.2	4277.8	4135.6	4114.8
65°	2698.4	2664.9	2824.7	3019.7	3384.2	3510.5	3253.1	2976.6	2703.2	2616.9	2592.9
67.5°	1469.1	1464.3	1507.5	1603.4	1763.3	1822.4	1772.8	1641.8	1571.4	1510.7	1510.7
70°	1165.4	1155.8	1147.8	1149.4	1163.8	1171.8	1173.4	1167.0	1175.0	1176.6	1170.2
72.5°	965.6	962.4	946.4	948.0	941.6	938.4	949.6	956.0	968.7	970.3	970.3
75°	700.2	692.2	700.2	701.8	695.4	695.4	703.4	701.8	708.2	711.4	693.8
77.5°	398.1	398.1	409.2	422.0	431.6	431.6	439.6	439.6	447.6	446.0	442.8
80°	219.0	219.0	225.4	233.4	243.0	252.6	260.6	262.2	267.0	265.4	260.6
82.5°	124.7	126.3	129.5	134.3	143.9	151.9	159.9	161.5	166.3	166.3	161.5
85°	59.1	57.5	59.1	62.3	67.1	73.5	81.5	86.3	89.5	89.5	86.3
87.5°	11.2	12.8	11.2	12.8	14.4	19.2	22.4	25.6	30.4	32.0	28.8
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)