

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: P638239

Luminaire Tested: GWS-SA4E-740-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638239
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-SA4E-740-U-5WQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE 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: 16104.8 lumens
Efficiency: N/A
Efficacy: 79.5 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): 202.6
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

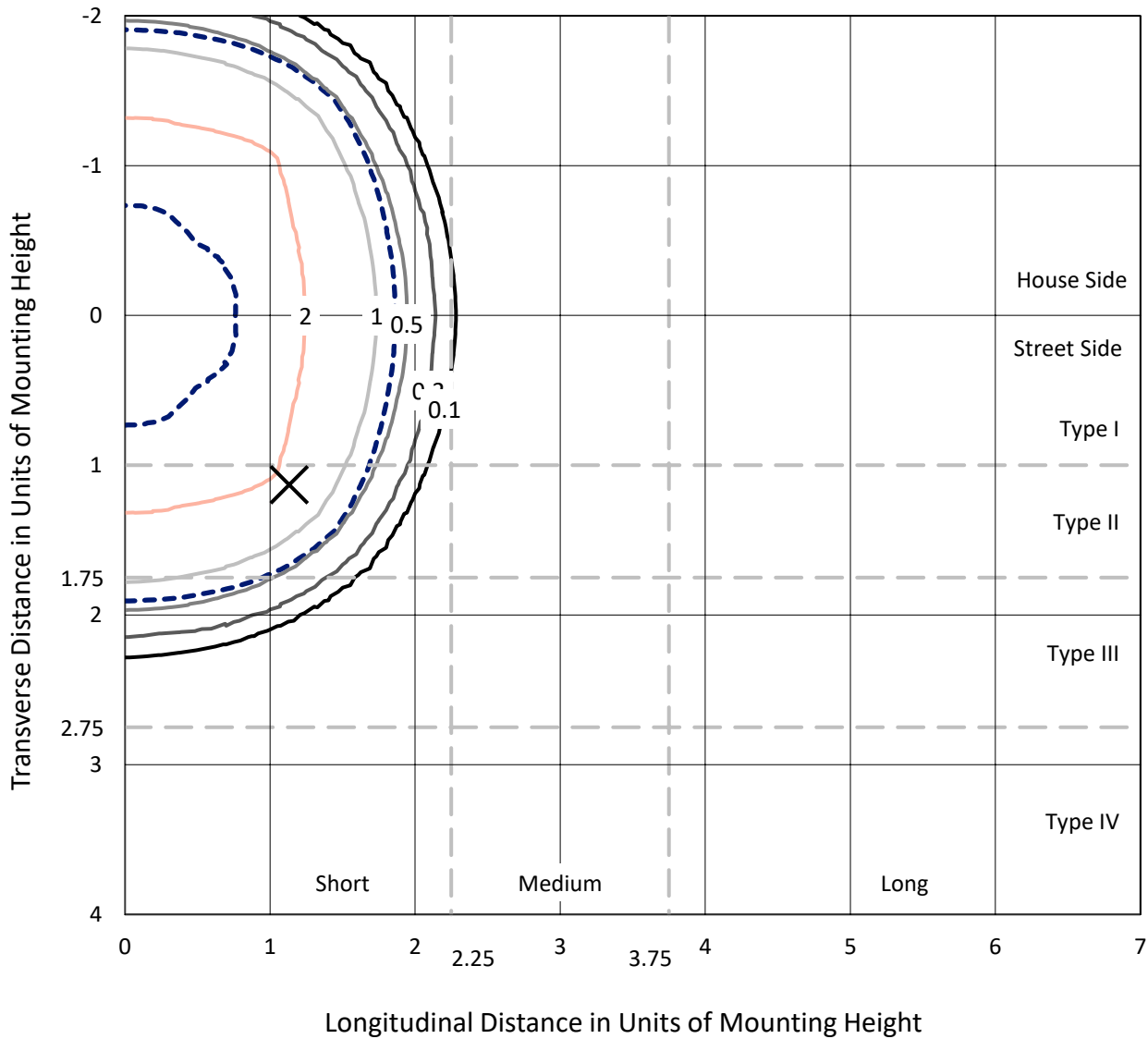


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Iso-Footcandle Lines of Horizontal Illumination

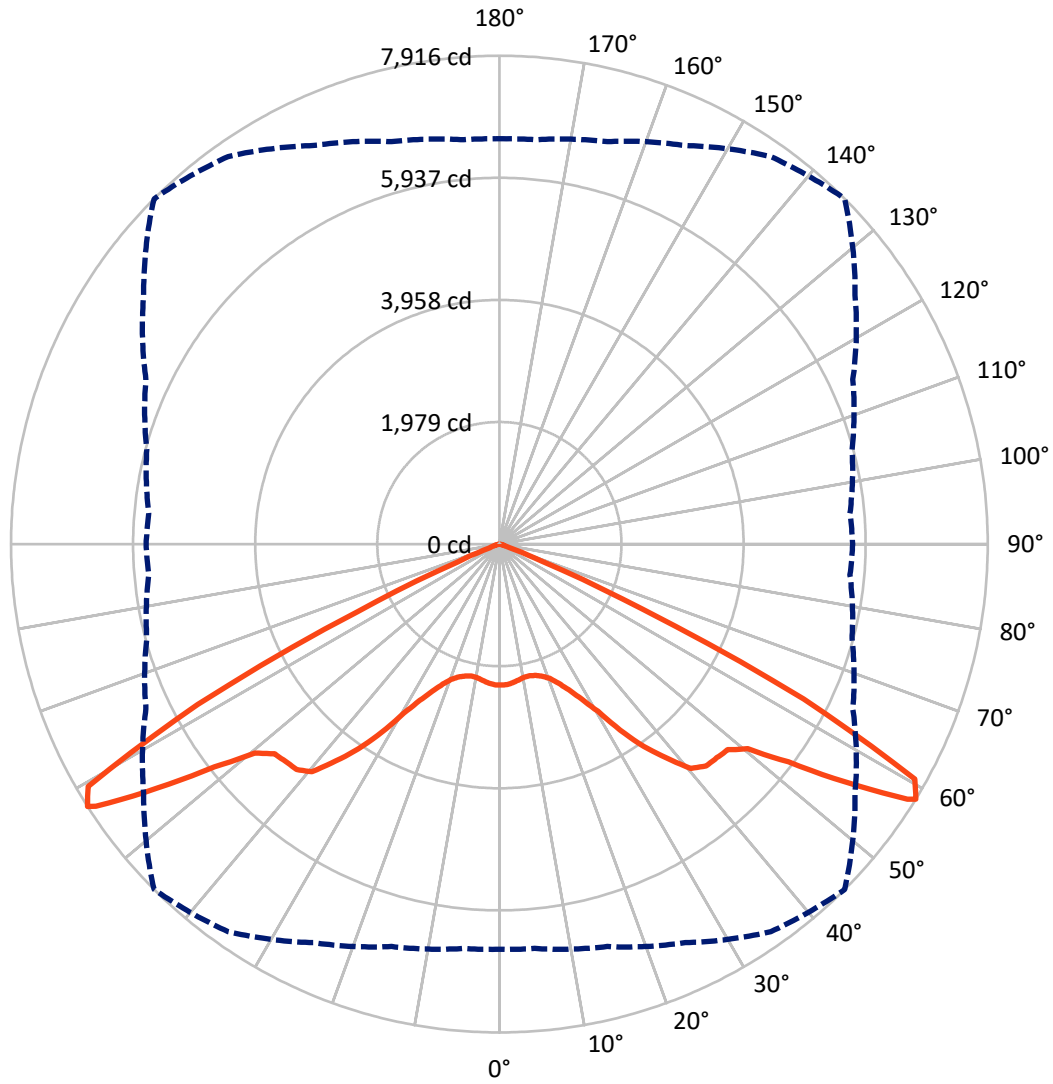
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8052.4	0.0	8052.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8052.4	0.0	8052.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	16104.8	0.0	16104.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.1	1.3
10°-20°	630.5	3.9
20°-30°	1192.5	7.4
30°-40°	2351.8	14.6
40°-50°	3721.7	23.1
50°-60°	5470.7	34.0
60°-70°	2441.9	15.2
70°-80°	81.8	0.5
80°-90°	0.7	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°	16104.8	100.0
0°-180°	16104.8	100.0

Coefficient of Utilization



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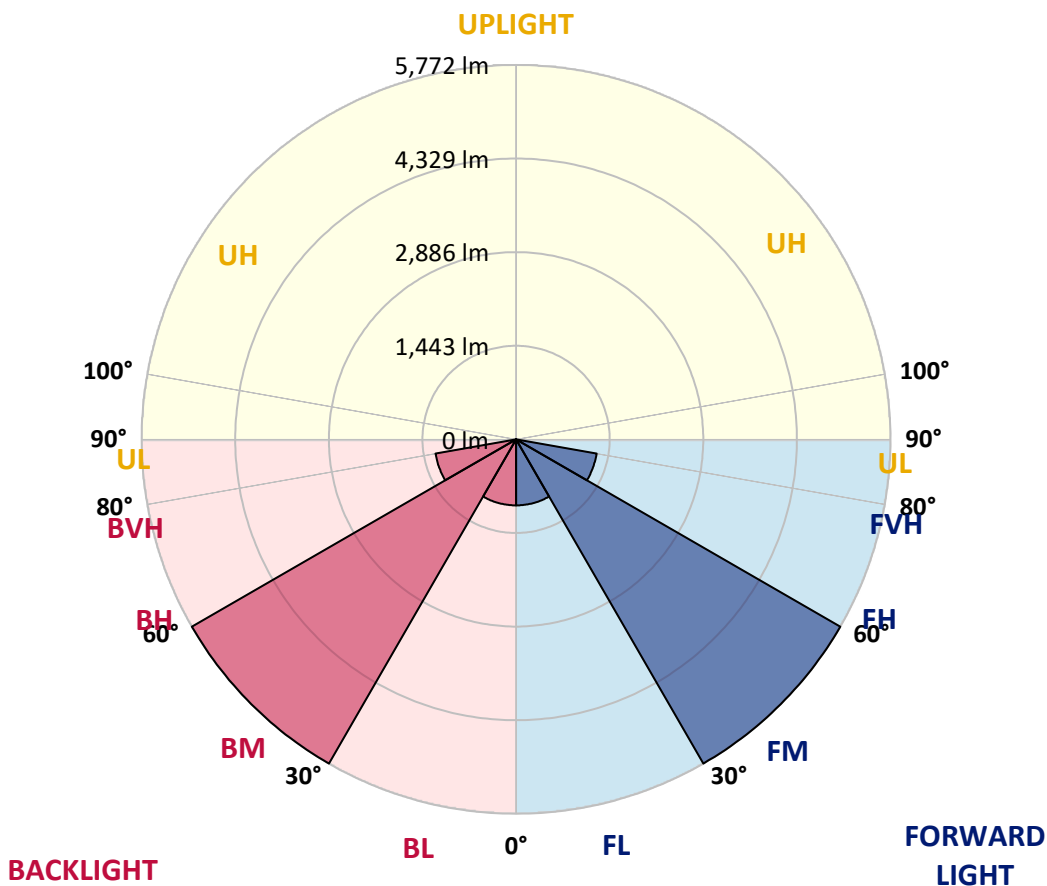
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.0	6.3			
FM (30°-60°)	5772.2	35.8			
FH (60°-80°)	1261.9	7.8			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	1018.0	6.3	B3/2500		
BM (30°-60°)	5772.2	35.8	B4/8500		
BH (60°-80°)	1261.9	7.8	B3/2500		G1/1800
BVH (80°-90°)	0.3	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°	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9
2.5°	2261.9	2266.3	2270.7	2272.9	2275.1	2281.7	2283.9	2277.3	2277.3	2264.1	2279.5
5°	2251.0	2255.4	2259.7	2257.5	2257.5	2257.5	2255.4	2246.6	2244.4	2231.2	2246.6
7.5°	2231.2	2235.6	2235.6	2229.0	2224.6	2224.6	2222.4	2211.5	2209.3	2196.1	2211.5
10°	2215.9	2218.1	2215.9	2202.7	2193.9	2193.9	2191.7	2187.3	2189.5	2180.8	2193.9
12.5°	2224.6	2226.8	2218.1	2200.5	2189.5	2187.3	2180.8	2174.2	2180.8	2178.6	2191.7
15°	2253.2	2255.4	2240.0	2218.1	2209.3	2209.3	2191.7	2174.2	2183.0	2185.1	2200.5
17.5°	2288.3	2288.3	2268.5	2248.8	2251.0	2251.0	2222.4	2191.7	2193.9	2202.7	2218.1
20°	2329.9	2329.9	2310.2	2305.8	2321.2	2323.4	2288.3	2240.0	2229.0	2235.6	2253.2
22.5°	2404.5	2404.5	2389.2	2400.2	2435.3	2446.2	2393.6	2325.6	2299.2	2303.6	2321.2
25°	2520.8	2520.8	2516.4	2542.8	2593.2	2617.4	2547.1	2457.2	2413.3	2406.7	2426.5
27.5°	2716.1	2718.3	2711.7	2751.2	2814.8	2843.3	2746.8	2628.3	2575.7	2564.7	2584.4
30°	2968.4	2968.4	2970.6	3025.4	3108.8	3146.1	3018.8	2880.6	2819.2	2784.1	2810.4
32.5°	3249.2	3253.6	3275.5	3367.7	3514.7	3591.5	3405.0	3211.9	3113.2	3075.9	3104.4
35°	3712.1	3670.4	3644.1	3712.1	3924.9	4025.9	3786.7	3560.7	3486.1	3481.8	3554.2
37.5°	4170.6	4146.5	4091.7	4161.9	4352.7	4398.8	4135.5	3946.9	3894.2	3922.7	3995.1
40°	4534.8	4491.0	4418.6	4484.4	4734.5	4780.6	4455.9	4269.4	4249.6	4313.3	4412.0
42.5°	4822.2	4760.8	4664.3	4679.6	4881.5	4914.4	4627.0	4486.6	4499.7	4578.7	4690.6
45°	4951.7	4903.4	4817.9	4811.3	4938.5	4940.7	4714.7	4642.3	4677.4	4738.9	4826.6
47.5°	5006.5	4984.6	4936.3	4925.4	4997.8	4980.2	4839.8	4809.1	4842.0	4859.5	4910.0
50°	5142.6	5142.6	5149.1	5157.9	5232.5	5215.0	5116.2	5081.1	5039.4	4978.0	4993.4
52.5°	5524.3	5539.7	5603.3	5673.5	5809.5	5866.6	5706.4	5502.4	5302.7	5168.9	5168.9
55°	6213.2	6228.6	6303.1	6421.6	6671.7	6807.7	6434.8	5985.0	5710.8	5528.7	5552.8
57.5°	6592.7	6610.3	6763.9	7084.2	7569.0	7799.4	6998.6	6331.7	5947.7	5739.3	5756.9
58°	6568.6	6579.6	6752.9	7128.1	7667.8	7915.7	7038.1	6320.7	5917.0	5704.2	5726.1
60°	5835.8	5820.5	6096.9	6632.2	7393.5	7735.8	6645.4	5770.0	5300.5	5083.3	5094.3
62.5°	3815.2	3824.0	4063.1	4622.6	5215.0	5537.5	4642.3	3990.7	3613.4	3481.8	3448.8
65°	1592.8	1564.3	1711.3	2022.8	2378.2	2558.1	2198.3	1860.4	1627.9	1540.1	1564.3
67.5°	410.3	399.3	408.1	511.2	625.3	739.4	620.9	473.9	412.5	416.8	416.8
70°	232.6	219.4	177.7	164.5	160.2	160.2	160.2	160.2	184.3	217.2	223.8
72.5°	175.5	164.5	129.4	111.9	98.7	92.1	96.5	111.9	133.8	162.4	166.7
75°	87.8	87.8	79.0	74.6	65.8	61.4	63.6	70.2	81.2	92.1	90.0
77.5°	17.6	19.7	21.9	26.3	21.9	21.9	21.9	26.3	26.3	28.5	26.3
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
82.5°	0.0	2.2	2.2	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
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)