

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: P637689

Luminaire Tested: GWS-SA4D-735-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637689
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-SA4D-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12710.8 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - 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

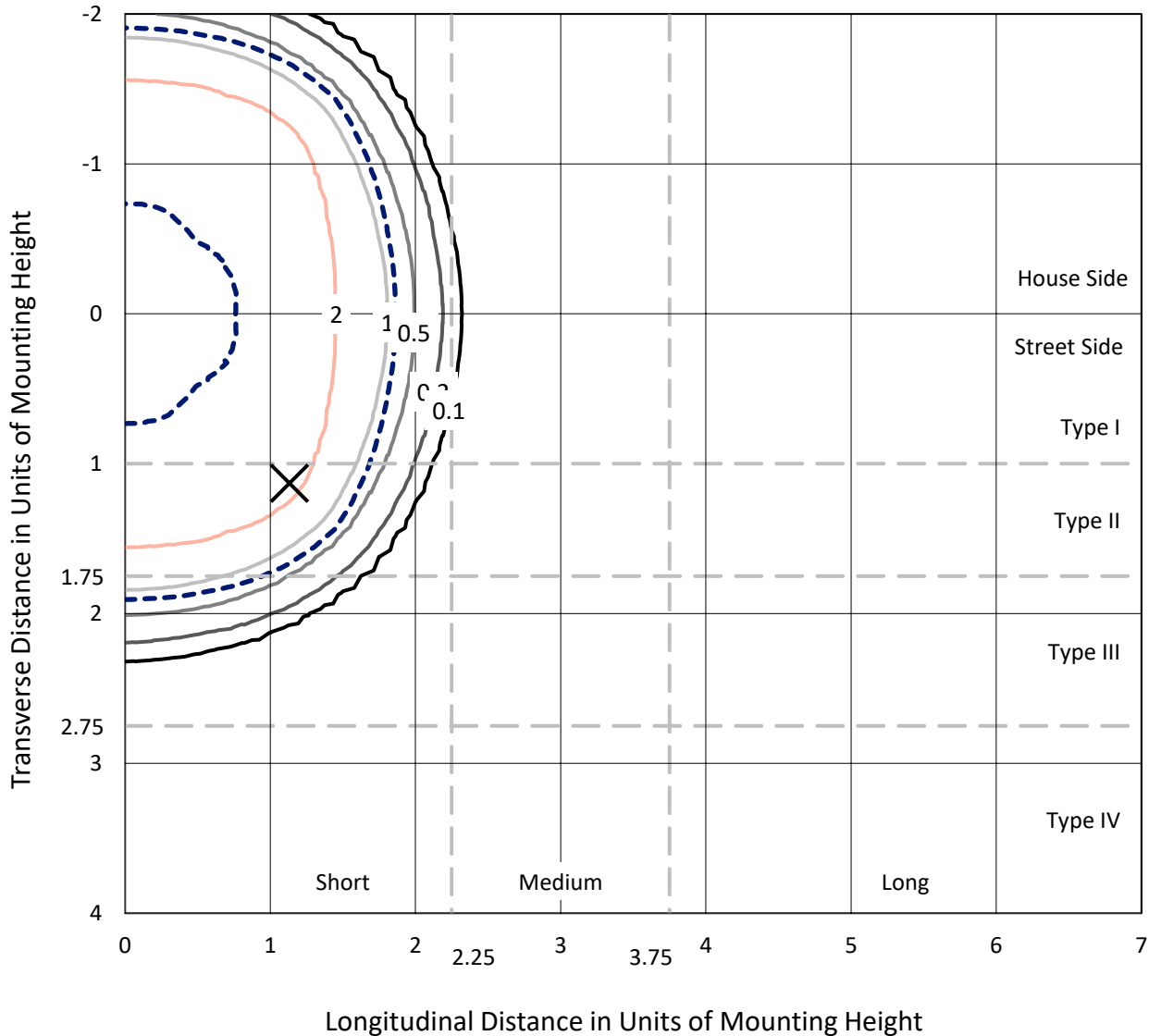


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Iso-Footcandle Lines of Horizontal Illumination

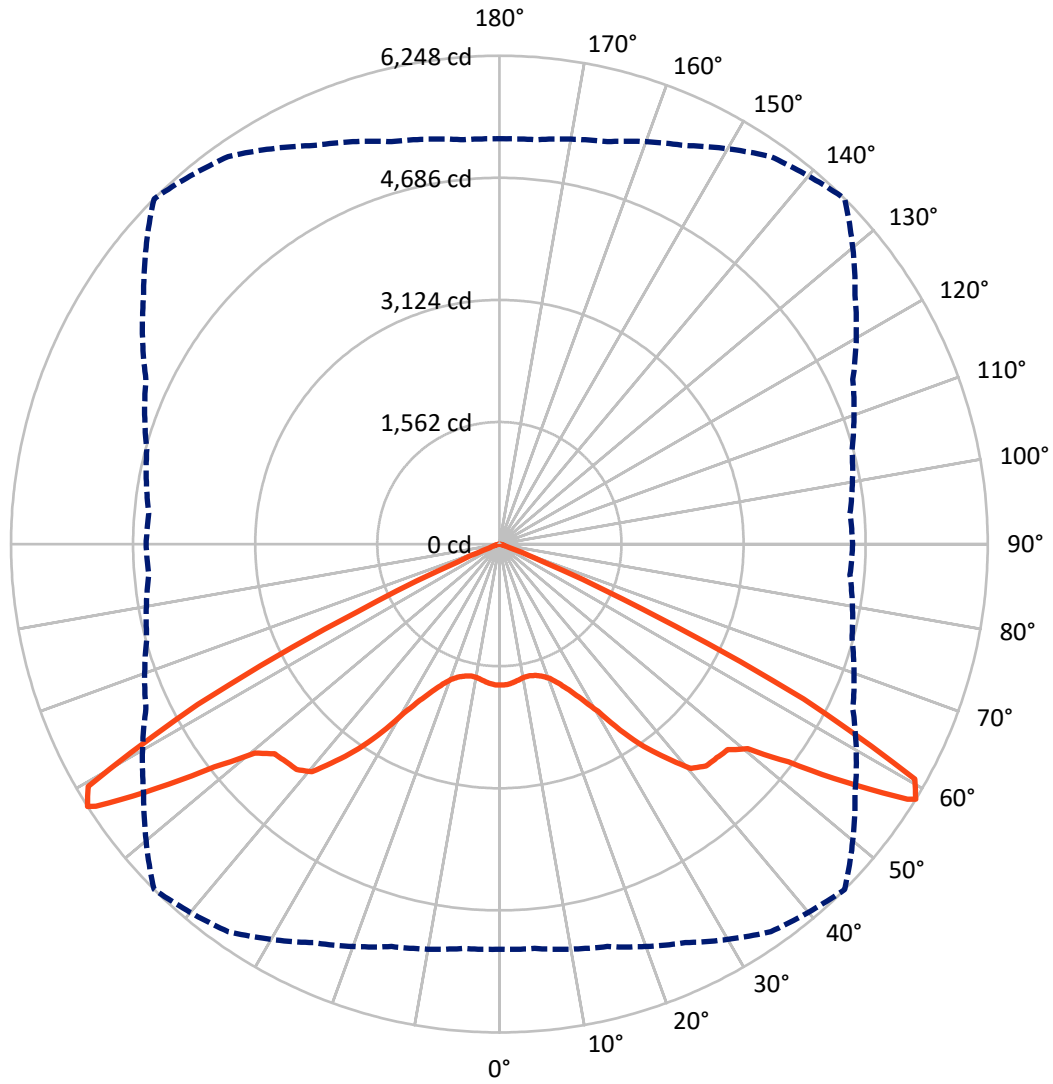
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	6355.4	0.0	6355.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6355.4	0.0	6355.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	12710.8	0.0	12710.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	1.3
10°-20°	497.6	3.9
20°-30°	941.2	7.4
30°-40°	1856.2	14.6
40°-50°	2937.4	23.1
50°-60°	4317.8	34.0
60°-70°	1927.3	15.2
70°-80°	64.6	0.5
80°-90°	0.5	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°	12710.8	100.0
0°-180°	12710.8	100.0

Coefficient of Utilization



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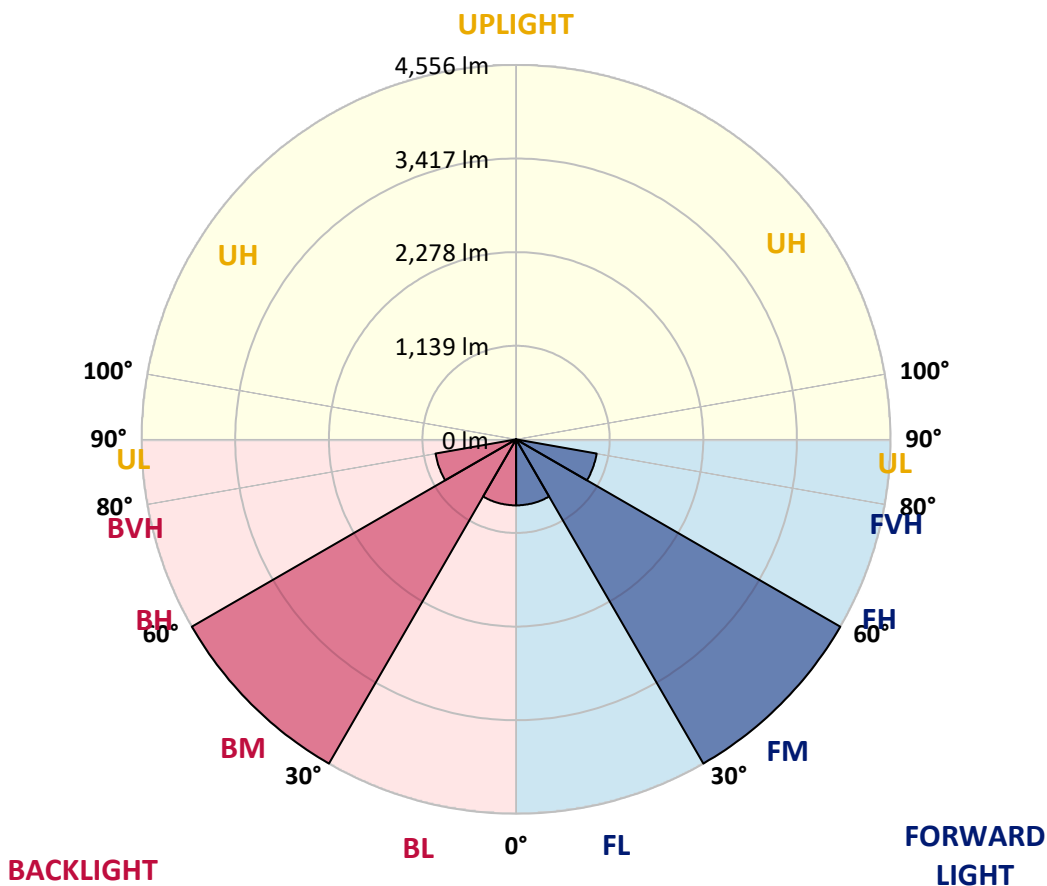
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.5	6.3			
FM (30°-60°)	4555.7	35.8			
FH (60°-80°)	995.9	7.8			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	803.5	6.3	B2/1000		
BM (30°-60°)	4555.7	35.8	B3/5000		
BH (60°-80°)	995.9	7.8	B2/1000		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: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6
2.5°	1785.2	1788.7	1792.2	1793.9	1795.6	1800.8	1802.6	1797.4	1797.4	1787.0	1799.1
5°	1776.6	1780.1	1783.5	1781.8	1781.8	1781.8	1780.1	1773.1	1771.4	1761.0	1773.1
7.5°	1761.0	1764.5	1764.5	1759.3	1755.8	1755.8	1754.1	1745.4	1743.7	1733.3	1745.4
10°	1748.9	1750.6	1748.9	1738.5	1731.6	1731.6	1729.8	1726.4	1728.1	1721.2	1731.6
12.5°	1755.8	1757.5	1750.6	1736.8	1728.1	1726.4	1721.2	1716.0	1721.2	1719.4	1729.8
15°	1778.3	1780.1	1767.9	1750.6	1743.7	1743.7	1729.8	1716.0	1722.9	1724.6	1736.8
17.5°	1806.0	1806.0	1790.4	1774.9	1776.6	1776.6	1754.1	1729.8	1731.6	1738.5	1750.6
20°	1838.9	1838.9	1823.3	1819.9	1832.0	1833.7	1806.0	1767.9	1759.3	1764.5	1778.3
22.5°	1897.8	1897.8	1885.7	1894.3	1922.0	1930.7	1889.1	1835.5	1814.7	1818.1	1832.0
25°	1989.6	1989.6	1986.1	2006.9	2046.7	2065.8	2010.3	1939.4	1904.7	1899.5	1915.1
27.5°	2143.7	2145.4	2140.2	2171.4	2221.6	2244.1	2167.9	2074.4	2032.9	2024.2	2039.8
30°	2342.8	2342.8	2344.5	2387.8	2453.6	2483.1	2382.6	2273.5	2225.1	2197.4	2218.1
32.5°	2564.4	2567.9	2585.2	2658.0	2774.0	2834.6	2687.4	2535.0	2457.1	2427.7	2450.2
35°	2929.8	2896.9	2876.1	2929.8	3097.8	3177.4	2988.7	2810.3	2751.5	2748.0	2805.1
37.5°	3291.7	3272.7	3229.4	3284.8	3435.4	3471.8	3264.0	3115.1	3073.5	3096.0	3153.2
40°	3579.1	3544.5	3487.4	3539.3	3736.7	3773.1	3516.8	3369.6	3354.0	3404.3	3482.2
42.5°	3806.0	3757.5	3681.3	3693.4	3852.7	3878.7	3651.9	3541.1	3551.4	3613.8	3702.1
45°	3908.1	3870.1	3802.5	3797.3	3897.8	3899.5	3721.1	3664.0	3691.7	3740.2	3809.4
47.5°	3951.4	3934.1	3896.0	3887.4	3944.5	3930.7	3819.8	3795.6	3821.6	3835.4	3875.2
50°	4058.8	4058.8	4064.0	4070.9	4129.8	4115.9	4038.0	4010.3	3977.4	3928.9	3941.0
52.5°	4360.1	4372.2	4422.4	4477.8	4585.2	4630.2	4503.8	4342.8	4185.2	4079.6	4079.6
55°	4903.8	4915.9	4974.8	5068.3	5265.7	5373.1	5078.7	4723.7	4507.3	4363.5	4382.6
57.5°	5203.4	5217.2	5338.4	5591.2	5973.9	6155.7	5523.7	4997.3	4694.3	4529.8	4543.6
58°	5184.3	5193.0	5329.8	5625.9	6051.8	6247.5	5554.9	4988.6	4670.0	4502.1	4519.4
60°	4606.0	4593.8	4812.0	5234.5	5835.4	6105.5	5244.9	4554.0	4183.5	4012.0	4020.7
62.5°	3011.2	3018.1	3206.9	3648.4	4115.9	4370.5	3664.0	3149.7	2851.9	2748.0	2722.0
65°	1257.1	1234.6	1350.6	1596.5	1877.0	2019.0	1735.0	1468.4	1284.8	1215.6	1234.6
67.5°	323.8	315.1	322.1	403.5	493.5	583.5	490.0	374.0	325.5	329.0	329.0
70°	183.5	173.2	140.3	129.9	126.4	126.4	126.4	126.4	145.5	171.4	176.6
72.5°	138.5	129.9	102.2	88.3	77.9	72.7	76.2	88.3	105.6	128.1	131.6
75°	69.3	69.3	62.3	58.9	51.9	48.5	50.2	55.4	64.1	72.7	71.0
77.5°	13.9	15.6	17.3	20.8	17.3	17.3	17.3	20.8	20.8	22.5	20.8
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	0.0	1.7	1.7	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
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)