

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: P637854

Luminaire Tested: GWS-SA4D-760-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637854
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13002.1 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

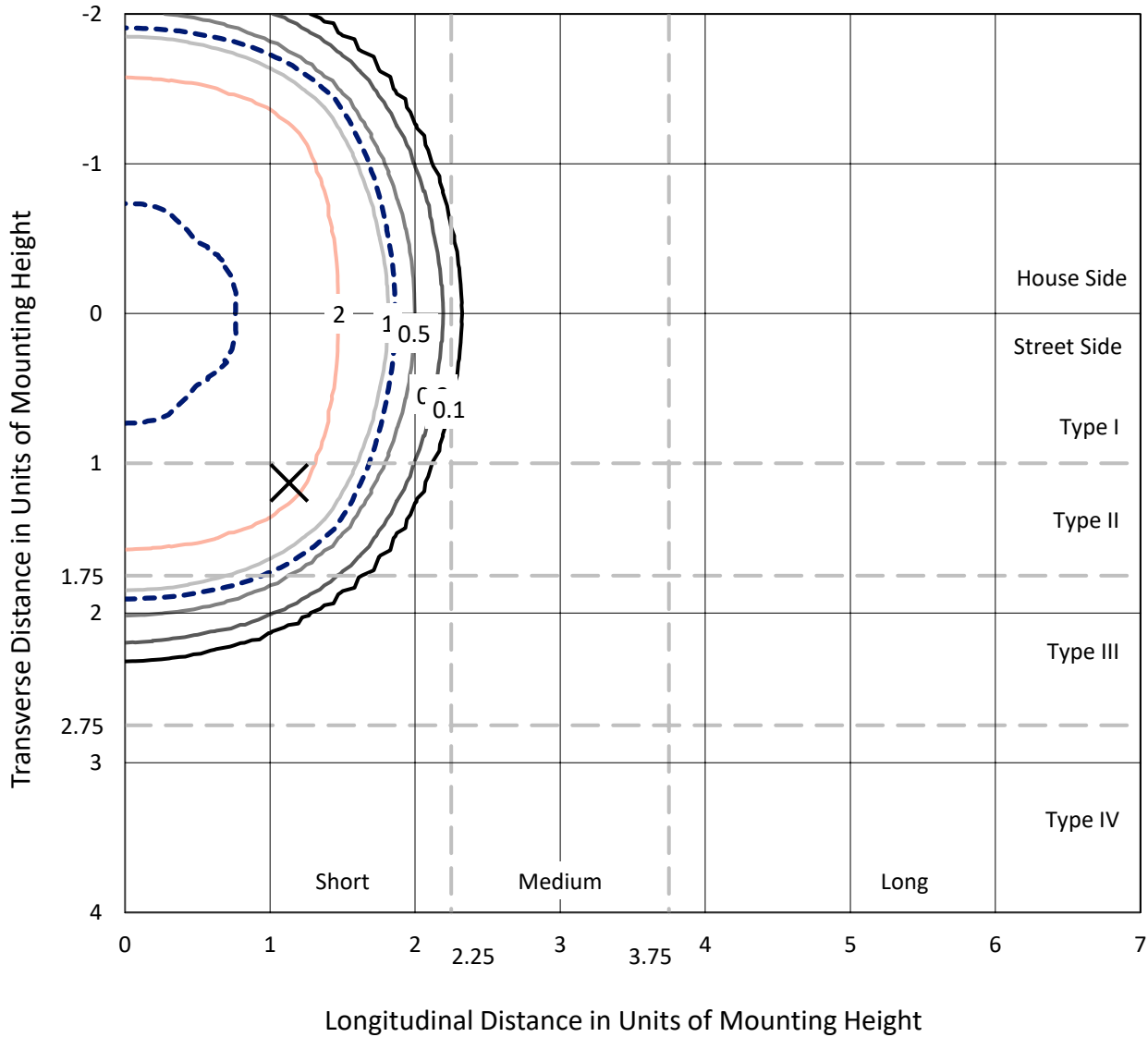
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637854
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Iso-Footcandle Lines of Horizontal Illumination

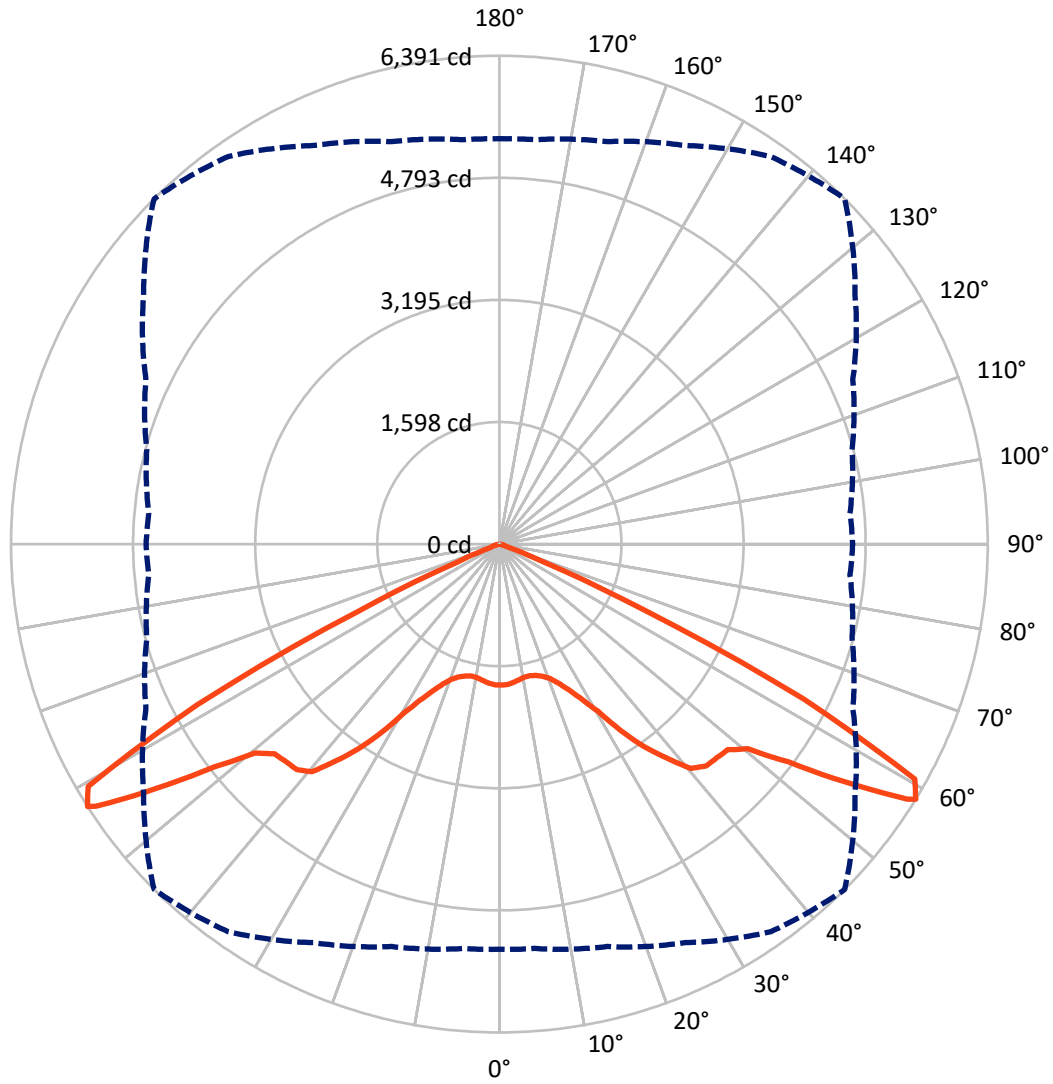
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

REPORT NUMBER: P637854
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Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA4D-760-U-5WQ-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6501.1	0.0	6501.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6501.1	0.0	6501.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	13002.1	0.0	13002.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	1.3
10°-20°	509.0	3.9
20°-30°	962.7	7.4
30°-40°	1898.7	14.6
40°-50°	3004.7	23.1
50°-60°	4416.8	34.0
60°-70°	1971.5	15.2
70°-80°	66.0	0.5
80°-90°	0.6	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°	13002.1	100.0
0°-180°	13002.1	100.0

Coefficient of Utilization



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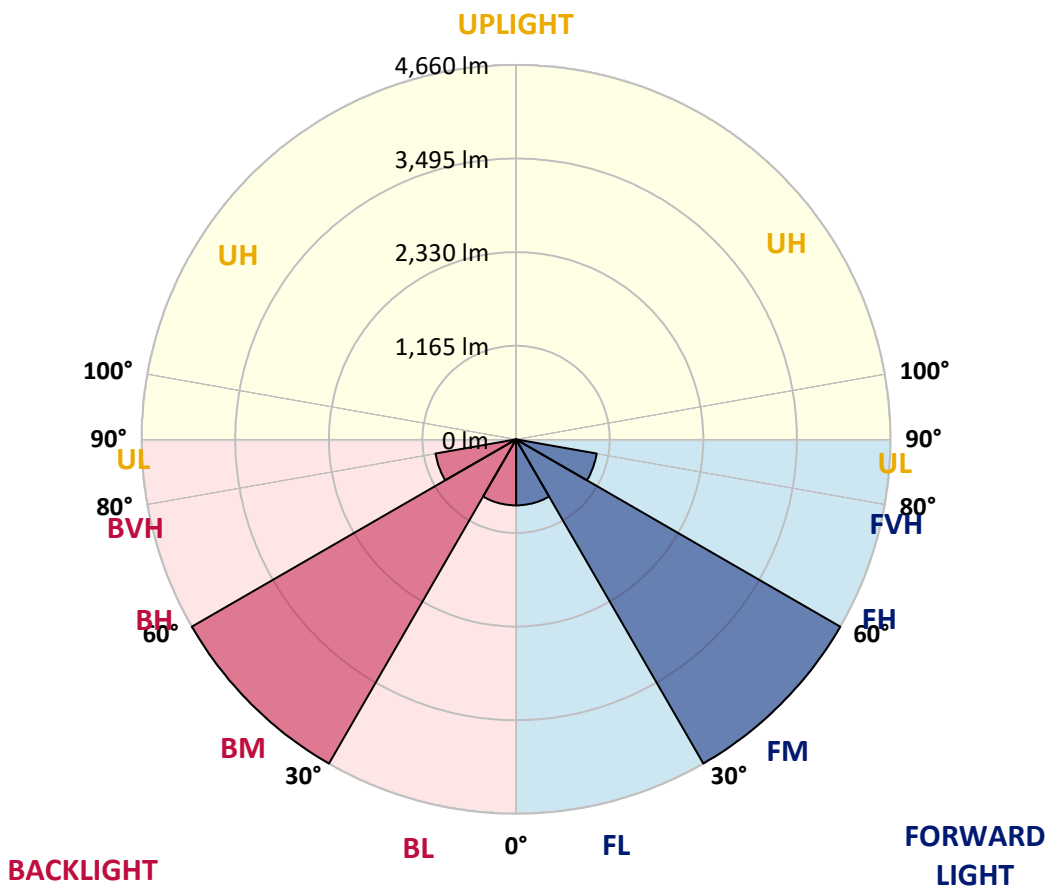
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.9	6.3			
FM (30°-60°)	4660.1	35.8			
FH (60°-80°)	1018.8	7.8			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	821.9	6.3	B2/1000		
BM (30°-60°)	4660.1	35.8	B3/5000		
BH (60°-80°)	1018.8	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: B3-U0-G1

Type V Short





REPORT NUMBER: P637854

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9
2.5°	1826.2	1829.7	1833.2	1835.0	1836.8	1842.1	1843.9	1838.6	1838.6	1827.9	1840.3
5°	1817.3	1820.8	1824.4	1822.6	1822.6	1822.6	1820.8	1813.8	1812.0	1801.4	1813.8
7.5°	1801.4	1804.9	1804.9	1799.6	1796.0	1796.0	1794.3	1785.4	1783.6	1773.0	1785.4
10°	1789.0	1790.7	1789.0	1778.3	1771.2	1771.2	1769.5	1765.9	1767.7	1760.6	1771.2
12.5°	1796.0	1797.8	1790.7	1776.6	1767.7	1765.9	1760.6	1755.3	1760.6	1758.9	1769.5
15°	1819.1	1820.8	1808.4	1790.7	1783.6	1783.6	1769.5	1755.3	1762.4	1764.2	1776.6
17.5°	1847.4	1847.4	1831.5	1815.5	1817.3	1817.3	1794.3	1769.5	1771.2	1778.3	1790.7
20°	1881.1	1881.1	1865.1	1861.6	1874.0	1875.8	1847.4	1808.4	1799.6	1804.9	1819.1
22.5°	1941.3	1941.3	1928.9	1937.7	1966.1	1974.9	1932.4	1877.5	1856.3	1859.8	1874.0
25°	2035.2	2035.2	2031.6	2052.9	2093.6	2113.1	2056.4	1983.8	1948.4	1943.1	1959.0
27.5°	2192.8	2194.6	2189.3	2221.1	2272.5	2295.5	2217.6	2122.0	2079.4	2070.6	2086.5
30°	2396.5	2396.5	2398.3	2442.6	2509.9	2540.0	2437.2	2325.7	2276.1	2247.7	2269.0
32.5°	2623.2	2626.8	2644.5	2718.9	2837.5	2899.5	2749.0	2593.1	2513.4	2483.3	2506.3
35°	2997.0	2963.3	2942.0	2997.0	3168.8	3250.2	3057.2	2874.7	2814.5	2811.0	2869.4
37.5°	3367.1	3347.7	3303.4	3360.1	3514.2	3551.4	3338.8	3186.5	3144.0	3167.0	3225.4
40°	3661.2	3625.7	3567.3	3620.4	3822.4	3859.6	3597.4	3446.9	3430.9	3482.3	3562.0
42.5°	3893.2	3843.6	3765.7	3778.1	3941.0	3967.6	3735.6	3622.2	3632.8	3696.6	3786.9
45°	3997.7	3958.7	3889.7	3884.4	3987.1	3988.9	3806.4	3748.0	3776.3	3825.9	3896.7
47.5°	4042.0	4024.3	3985.3	3976.5	4034.9	4020.7	3907.4	3882.6	3909.1	3923.3	3964.1
50°	4151.8	4151.8	4157.1	4164.2	4224.4	4210.3	4130.6	4102.2	4068.6	4019.0	4031.4
52.5°	4460.0	4472.4	4523.8	4580.5	4690.3	4736.3	4607.0	4442.3	4281.1	4173.1	4173.1
55°	5016.2	5028.6	5088.8	5184.4	5386.4	5496.2	5195.1	4832.0	4610.6	4463.5	4483.0
57.5°	5322.6	5336.8	5460.8	5719.4	6110.8	6296.8	5650.3	5111.8	4801.9	4633.6	4647.8
58°	5303.1	5312.0	5451.9	5754.8	6190.5	6390.7	5682.2	5103.0	4777.1	4605.2	4623.0
60°	4711.5	4699.1	4922.3	5354.5	5969.1	6245.4	5365.1	4658.4	4279.3	4104.0	4112.8
62.5°	3080.2	3087.3	3280.4	3732.0	4210.3	4470.6	3748.0	3221.9	2917.2	2811.0	2784.4
65°	1285.9	1262.9	1381.6	1633.1	1920.0	2065.3	1774.8	1502.0	1314.3	1243.4	1262.9
67.5°	331.2	322.4	329.5	412.7	504.8	596.9	501.3	382.6	333.0	336.5	336.5
70°	187.8	177.1	143.5	132.8	129.3	129.3	129.3	129.3	148.8	175.4	180.7
72.5°	141.7	132.8	104.5	90.3	79.7	74.4	77.9	90.3	108.0	131.1	134.6
75°	70.8	70.8	63.8	60.2	53.1	49.6	51.4	56.7	65.5	74.4	72.6
77.5°	14.2	15.9	17.7	21.3	17.7	17.7	17.7	21.3	21.3	23.0	21.3
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	0.0	1.8	1.8	0.0	0.0	0.0	0.0	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	0.0	1.8	1.8
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)