

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: P637744

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637744
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-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: 12887.4 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: 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

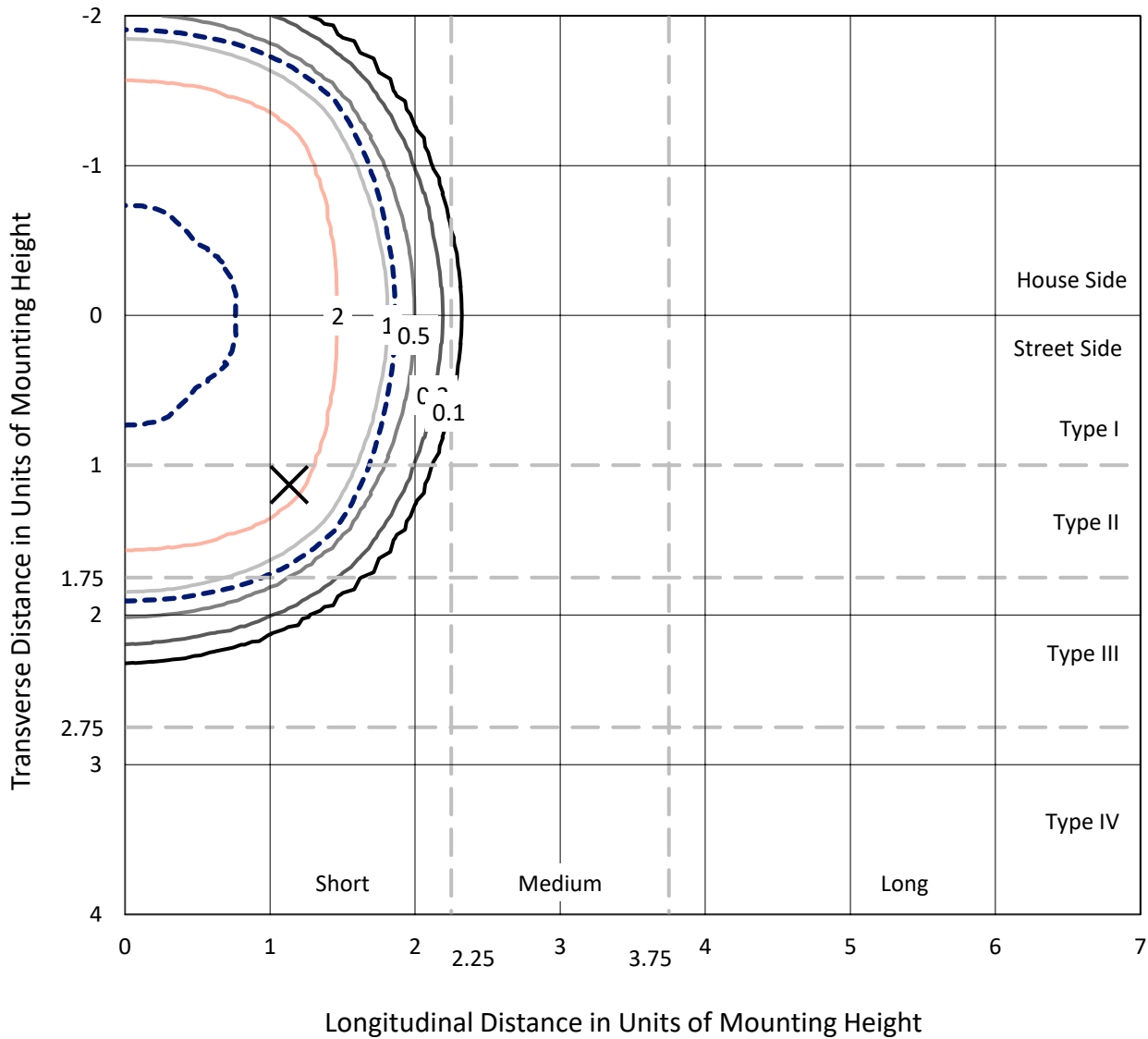


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Iso-Footcandle Lines of Horizontal Illumination

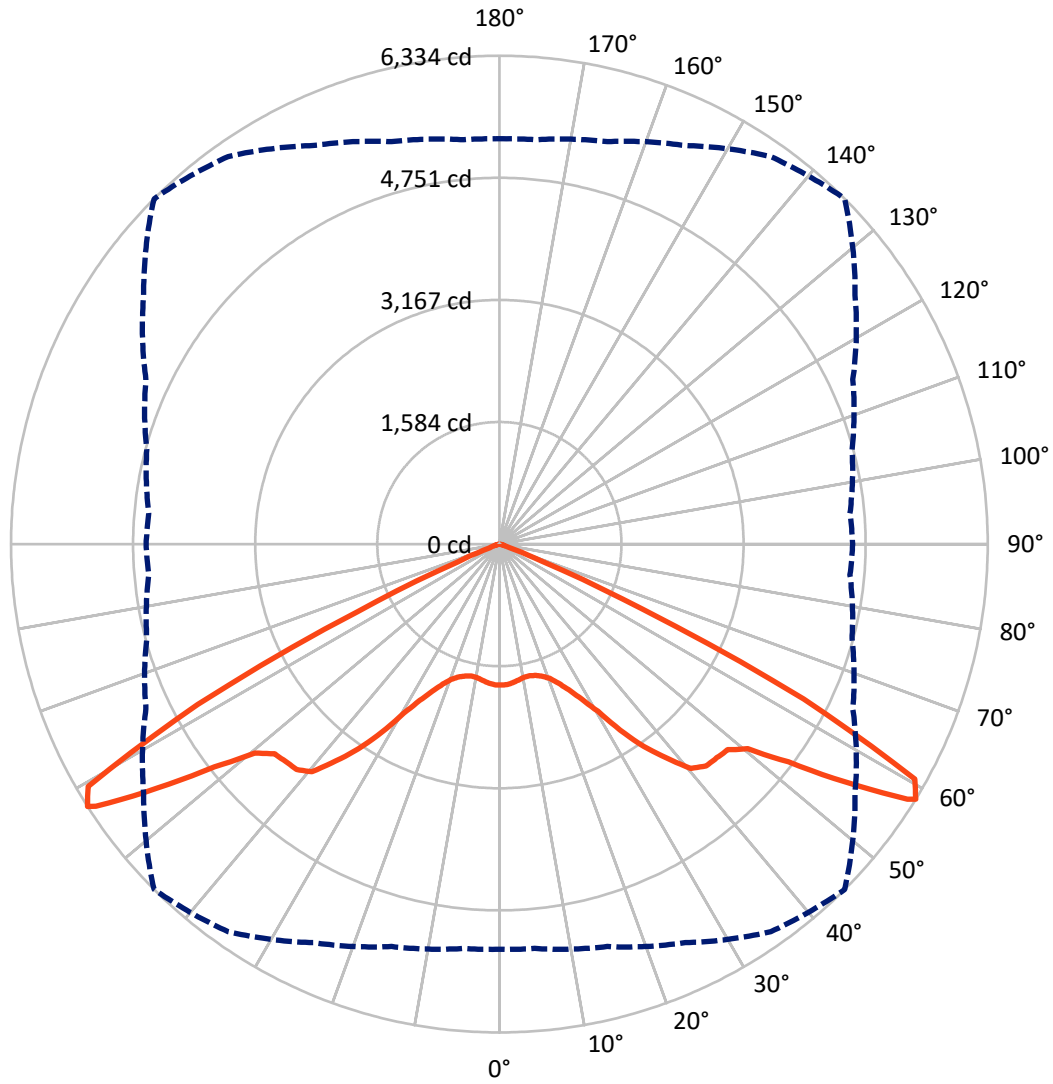
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 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	6443.7	0.0	6443.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6443.7	0.0	6443.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	12887.4	0.0	12887.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	1.3
10°-20°	504.5	3.9
20°-30°	954.2	7.4
30°-40°	1882.0	14.6
40°-50°	2978.2	23.1
50°-60°	4377.8	34.0
60°-70°	1954.1	15.2
70°-80°	65.5	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°	12887.4	100.0
0°-180°	12887.4	100.0

Coefficient of Utilization



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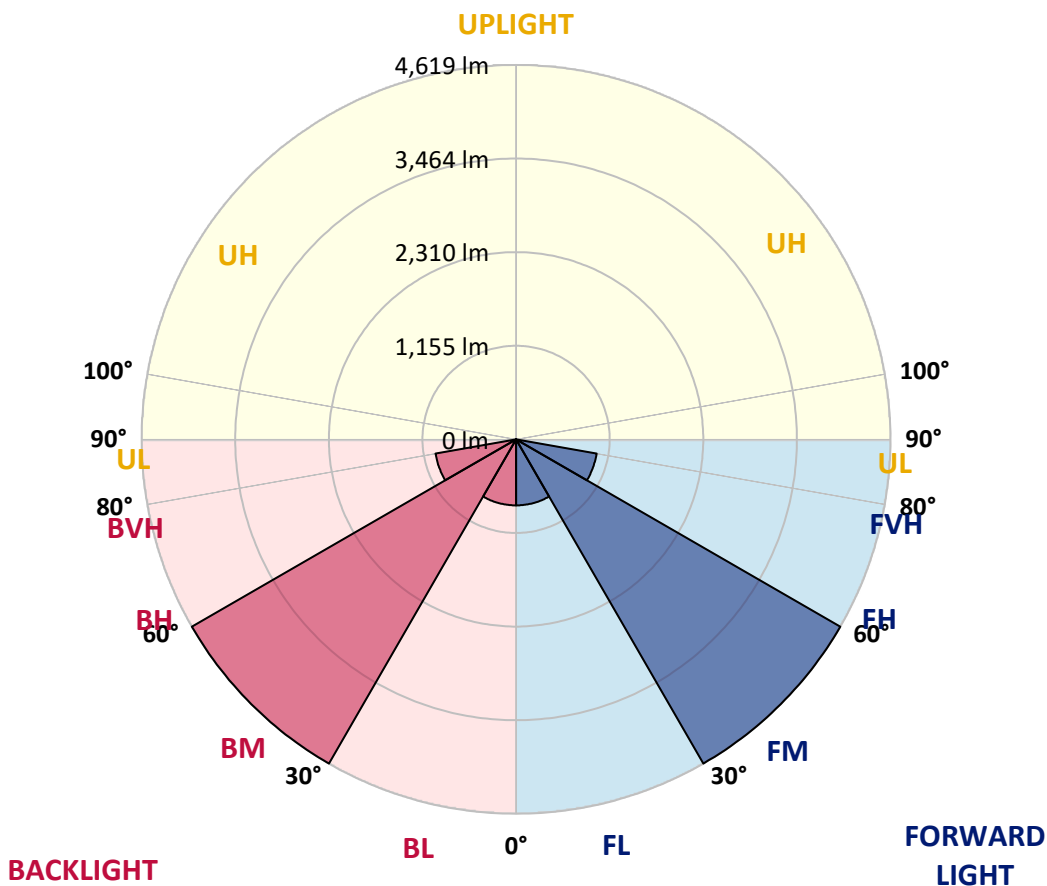
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	814.7	6.3			
FM (30°-60°)	4619.0	35.8			
FH (60°-80°)	1009.8	7.8			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	814.7	6.3	B2/1000		
BM (30°-60°)	4619.0	35.8	B3/5000		
BH (60°-80°)	1009.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6
2.5°	1810.0	1813.6	1817.1	1818.8	1820.6	1825.8	1827.6	1822.3	1822.3	1811.8	1824.1
5°	1801.3	1804.8	1808.3	1806.5	1806.5	1806.5	1804.8	1797.8	1796.0	1785.5	1797.8
7.5°	1785.5	1789.0	1789.0	1783.7	1780.2	1780.2	1778.4	1769.7	1767.9	1757.4	1769.7
10°	1773.2	1774.9	1773.2	1762.6	1755.6	1755.6	1753.9	1750.4	1752.1	1745.1	1755.6
12.5°	1780.2	1782.0	1774.9	1760.9	1752.1	1750.4	1745.1	1739.8	1745.1	1743.3	1753.9
15°	1803.0	1804.8	1792.5	1774.9	1767.9	1767.9	1753.9	1739.8	1746.8	1748.6	1760.9
17.5°	1831.1	1831.1	1815.3	1799.5	1801.3	1801.3	1778.4	1753.9	1755.6	1762.6	1774.9
20°	1864.5	1864.5	1848.7	1845.2	1857.5	1859.2	1831.1	1792.5	1783.7	1789.0	1803.0
22.5°	1924.2	1924.2	1911.9	1920.7	1948.7	1957.5	1915.4	1861.0	1839.9	1843.4	1857.5
25°	2017.2	2017.2	2013.7	2034.8	2075.1	2094.5	2038.3	1966.3	1931.2	1925.9	1941.7
27.5°	2173.5	2175.2	2170.0	2201.6	2252.5	2275.3	2198.0	2103.2	2061.1	2052.3	2068.1
30°	2375.4	2375.4	2377.1	2421.0	2487.7	2517.6	2415.7	2305.1	2256.0	2227.9	2249.0
32.5°	2600.1	2603.6	2621.1	2694.9	2812.5	2874.0	2724.7	2570.2	2491.2	2461.4	2484.2
35°	2970.5	2937.2	2916.1	2970.5	3140.8	3221.6	3030.2	2849.4	2789.7	2786.2	2844.1
37.5°	3337.4	3318.1	3274.2	3330.4	3483.2	3520.0	3309.4	3158.4	3116.2	3139.1	3197.0
40°	3628.9	3593.8	3535.8	3588.5	3788.6	3825.5	3565.7	3416.4	3400.6	3451.6	3530.6
42.5°	3858.9	3809.7	3732.5	3744.7	3906.3	3932.6	3702.6	3590.3	3600.8	3664.0	3753.5
45°	3962.4	3923.8	3855.4	3850.1	3951.9	3953.7	3772.8	3714.9	3743.0	3792.1	3862.4
47.5°	4006.3	3988.8	3950.2	3941.4	3999.3	3985.3	3872.9	3848.3	3874.7	3888.7	3929.1
50°	4115.2	4115.2	4120.5	4127.5	4187.2	4173.1	4094.1	4066.0	4032.7	3983.5	3995.8
52.5°	4420.7	4433.0	4483.9	4540.0	4648.9	4694.5	4566.4	4403.1	4243.3	4136.3	4136.3
55°	4971.9	4984.2	5043.9	5138.7	5338.9	5447.7	5149.2	4789.3	4569.9	4424.2	4443.5
57.5°	5275.7	5289.7	5412.6	5668.9	6056.9	6241.2	5600.4	5066.7	4759.5	4592.7	4606.8
58°	5256.3	5265.1	5403.8	5704.0	6135.9	6334.3	5632.0	5058.0	4734.9	4564.6	4582.2
60°	4670.0	4657.7	4878.9	5307.3	5916.5	6190.3	5317.8	4617.3	4241.6	4067.8	4076.6
62.5°	3053.0	3060.1	3251.4	3699.1	4173.1	4431.2	3714.9	3193.5	2891.5	2786.2	2759.8
65°	1274.6	1251.8	1369.4	1618.7	1903.1	2047.1	1759.1	1488.8	1302.7	1232.4	1251.8
67.5°	328.3	319.5	326.5	409.1	500.4	591.6	496.8	379.2	330.1	333.6	333.6
70°	186.1	175.6	142.2	131.7	128.2	128.2	128.2	128.2	147.5	173.8	179.1
72.5°	140.4	131.7	103.6	89.5	79.0	73.7	77.2	89.5	107.1	129.9	133.4
75°	70.2	70.2	63.2	59.7	52.7	49.2	50.9	56.2	65.0	73.7	72.0
77.5°	14.0	15.8	17.6	21.1	17.6	17.6	17.6	21.1	21.1	22.8	21.1
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)