

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: P637634

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637634
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-730-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) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11735.5 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

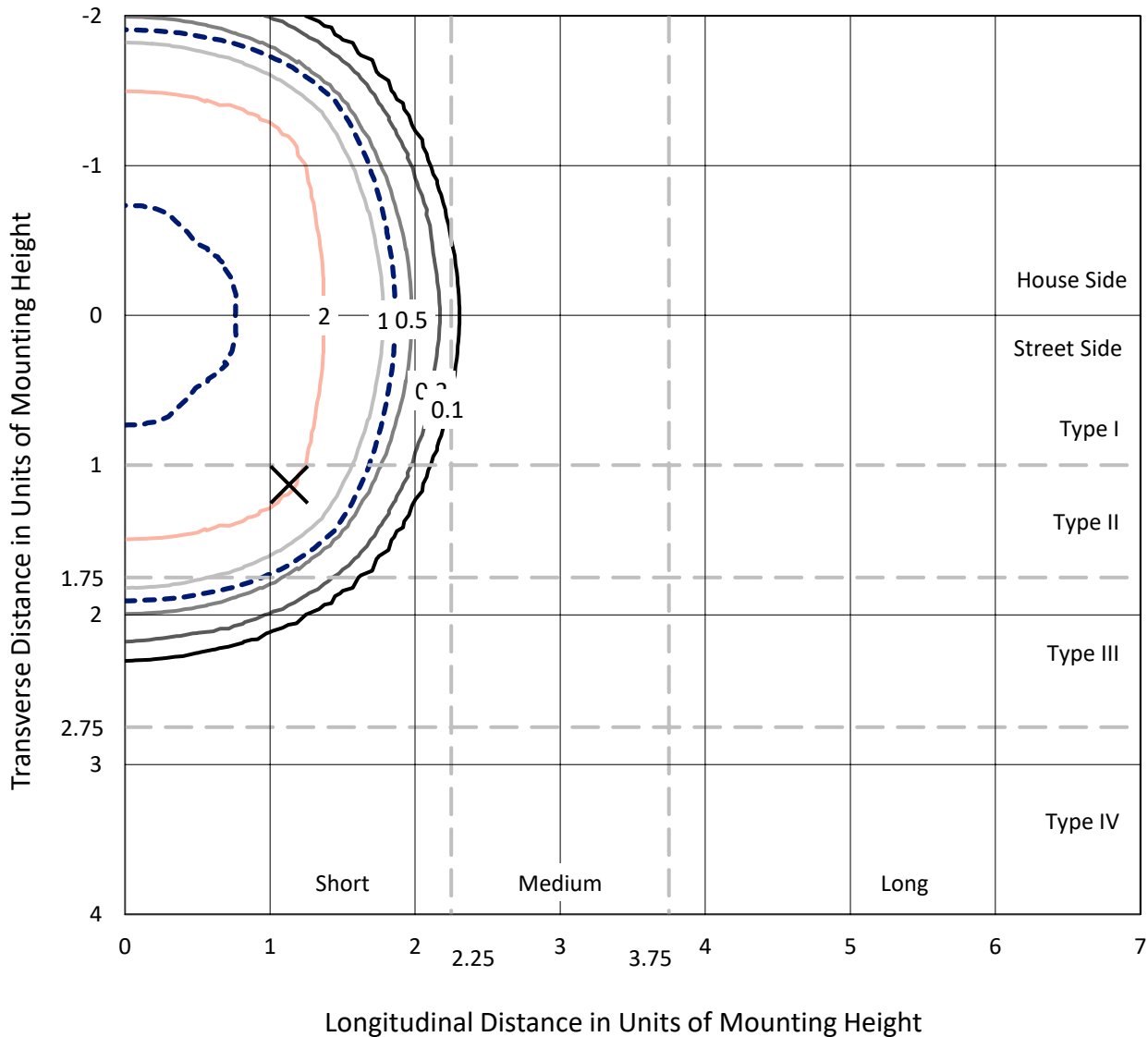
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

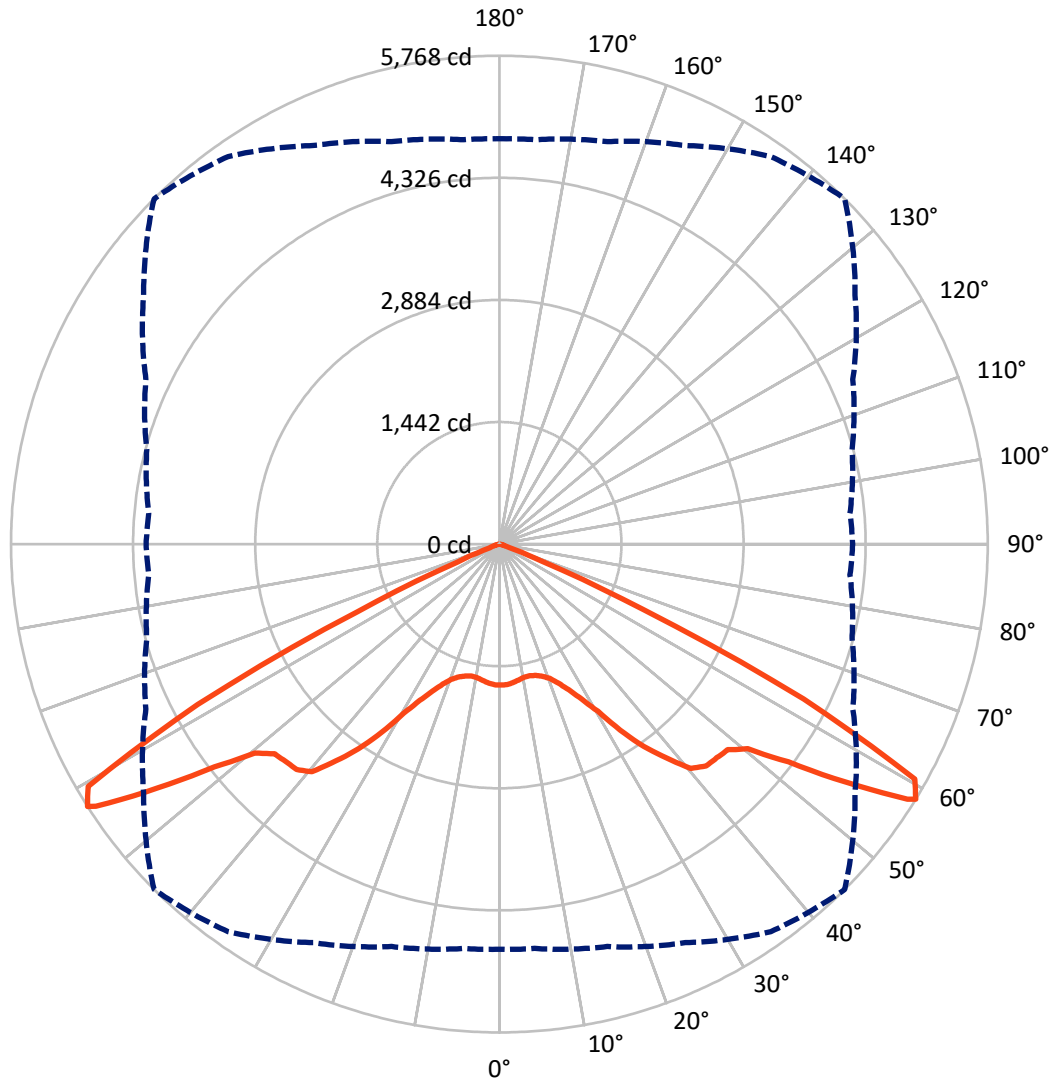
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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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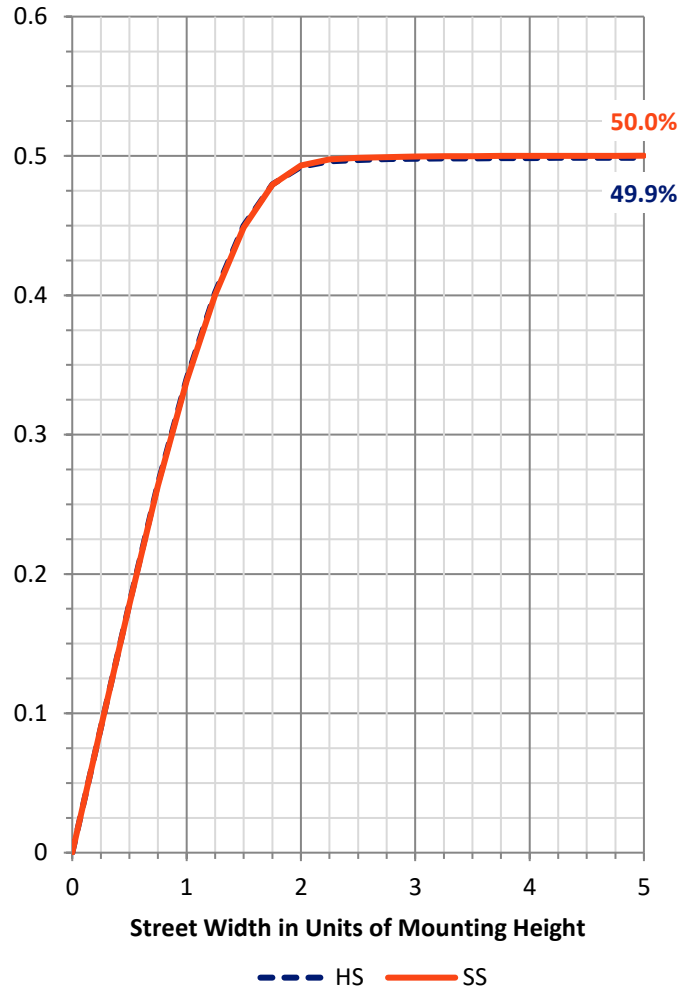
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5867.8	0.0	5867.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5867.8	0.0	5867.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	11735.5	0.0	11735.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	1.3
10°-20°	459.4	3.9
20°-30°	868.9	7.4
30°-40°	1713.8	14.6
40°-50°	2712.0	23.1
50°-60°	3986.5	34.0
60°-70°	1779.4	15.2
70°-80°	59.6	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°	11735.5	100.0
0°-180°	11735.5	100.0

Coefficient of Utilization



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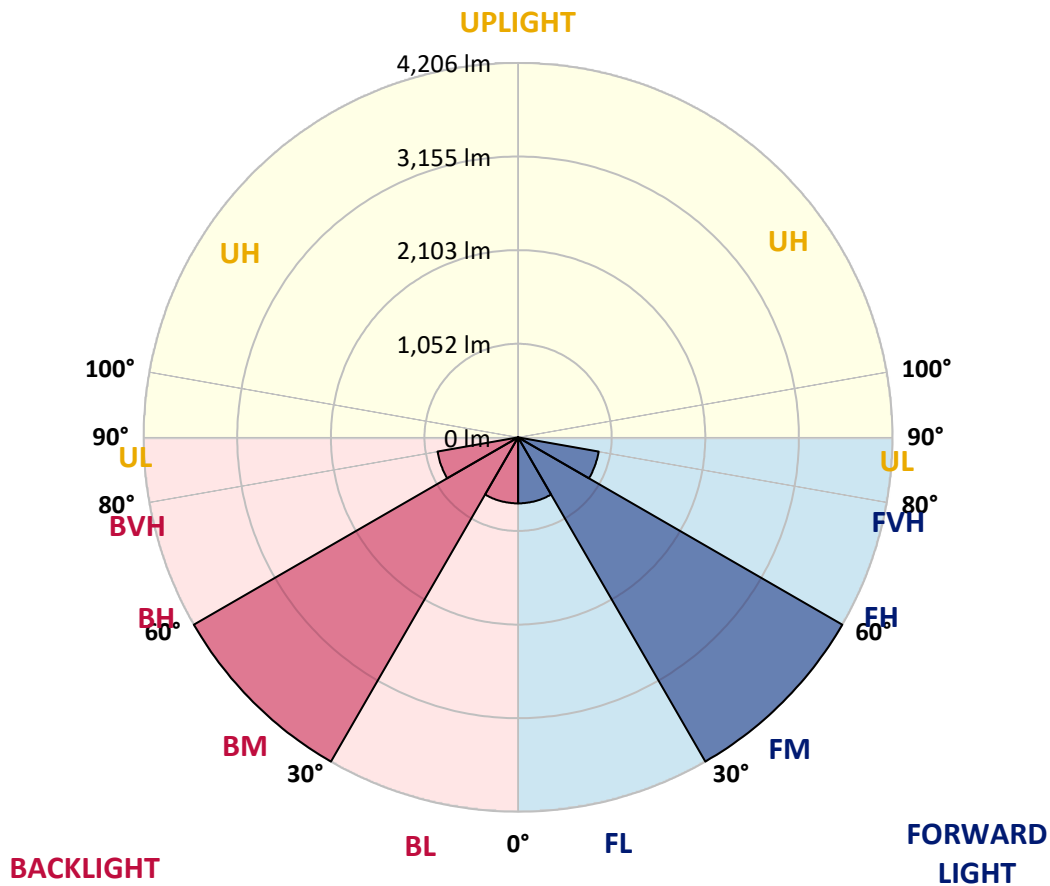
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	741.8	6.3			
FM (30°-60°)	4206.2	35.8			
FH (60°-80°)	919.5	7.8			G1/1800
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	741.8	6.3	B2/1000		
BM (30°-60°)	4206.2	35.8	B3/5000		
BH (60°-80°)	919.5	7.8	B2/1000		G1/1800
BVH (80°-90°)	0.2	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°	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3
2.5°	1648.3	1651.5	1654.7	1656.3	1657.9	1662.7	1664.3	1659.5	1659.5	1649.9	1661.1
5°	1640.3	1643.5	1646.7	1645.1	1645.1	1645.1	1643.5	1637.1	1635.5	1625.9	1637.1
7.5°	1625.9	1629.1	1629.1	1624.3	1621.1	1621.1	1619.5	1611.5	1609.9	1600.3	1611.5
10°	1614.7	1616.3	1614.7	1605.1	1598.7	1598.7	1597.1	1593.9	1595.5	1589.1	1598.7
12.5°	1621.1	1622.7	1616.3	1603.5	1595.5	1593.9	1589.1	1584.3	1589.1	1587.5	1597.1
15°	1641.9	1643.5	1632.3	1616.3	1609.9	1609.9	1597.1	1584.3	1590.7	1592.3	1603.5
17.5°	1667.4	1667.4	1653.1	1638.7	1640.3	1640.3	1619.5	1597.1	1598.7	1605.1	1616.3
20°	1697.8	1697.8	1683.4	1680.2	1691.4	1693.0	1667.4	1632.3	1624.3	1629.1	1641.9
22.5°	1752.2	1752.2	1741.0	1749.0	1774.6	1782.6	1744.2	1694.6	1675.4	1678.6	1691.4
25°	1836.9	1836.9	1833.7	1852.9	1889.7	1907.3	1856.1	1790.5	1758.6	1753.8	1768.2
27.5°	1979.2	1980.8	1976.0	2004.8	2051.1	2071.9	2001.6	1915.2	1876.9	1868.9	1883.3
30°	2163.0	2163.0	2164.6	2204.6	2265.4	2292.5	2199.8	2099.1	2054.3	2028.8	2047.9
32.5°	2367.7	2370.9	2386.9	2454.0	2561.1	2617.1	2481.2	2340.5	2268.6	2241.4	2262.2
35°	2705.0	2674.6	2655.4	2705.0	2860.1	2933.6	2759.4	2594.7	2540.3	2537.1	2589.9
37.5°	3039.1	3021.5	2981.6	3032.7	3171.8	3205.4	3013.6	2876.1	2837.7	2858.5	2911.2
40°	3304.5	3272.5	3219.8	3267.7	3450.0	3483.6	3247.0	3111.1	3096.7	3143.1	3215.0
42.5°	3513.9	3469.2	3398.8	3410.0	3557.1	3581.1	3371.7	3269.3	3278.9	3336.5	3418.0
45°	3608.3	3573.1	3510.8	3506.0	3598.7	3600.3	3435.6	3382.9	3408.4	3453.2	3517.1
47.5°	3648.2	3632.3	3597.1	3589.1	3641.8	3629.1	3526.7	3504.4	3528.3	3541.1	3577.9
50°	3747.4	3747.4	3752.2	3758.6	3812.9	3800.1	3728.2	3702.6	3672.2	3627.5	3638.6
52.5°	4025.5	4036.7	4083.1	4134.2	4233.4	4274.9	4158.2	4009.5	3864.1	3766.5	3766.5
55°	4527.5	4538.7	4593.1	4679.4	4861.7	4960.8	4689.0	4361.3	4161.4	4028.7	4046.3
57.5°	4804.1	4816.9	4928.8	5162.2	5515.5	5683.4	5099.9	4613.9	4334.1	4182.2	4195.0
58°	4786.5	4794.5	4920.8	5194.2	5587.5	5768.1	5128.6	4605.9	4311.7	4156.6	4172.6
60°	4252.6	4241.4	4442.8	4832.9	5387.6	5637.0	4842.5	4204.6	3862.5	3704.2	3712.2
62.5°	2780.1	2786.5	2960.8	3368.5	3800.1	4035.1	3382.9	2908.0	2633.1	2537.1	2513.2
65°	1160.7	1139.9	1247.0	1474.0	1733.0	1864.1	1601.9	1355.7	1186.2	1122.3	1139.9
67.5°	299.0	291.0	297.4	372.5	455.6	538.8	452.4	345.3	300.6	303.8	303.8
70°	169.5	159.9	129.5	119.9	116.7	116.7	116.7	116.7	134.3	158.3	163.1
72.5°	127.9	119.9	94.3	81.5	71.9	67.1	70.3	81.5	97.5	118.3	121.5
75°	63.9	63.9	57.6	54.4	48.0	44.8	46.4	51.2	59.2	67.1	65.5
77.5°	12.8	14.4	16.0	19.2	16.0	16.0	16.0	19.2	19.2	20.8	19.2
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	0.0	1.6	1.6	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
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)