

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: P638459

Luminaire Tested: GWS-SA4E-830-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638459
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-830-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, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12793.5 lumens
Efficiency: N/A
Efficacy: 63.1 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): 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

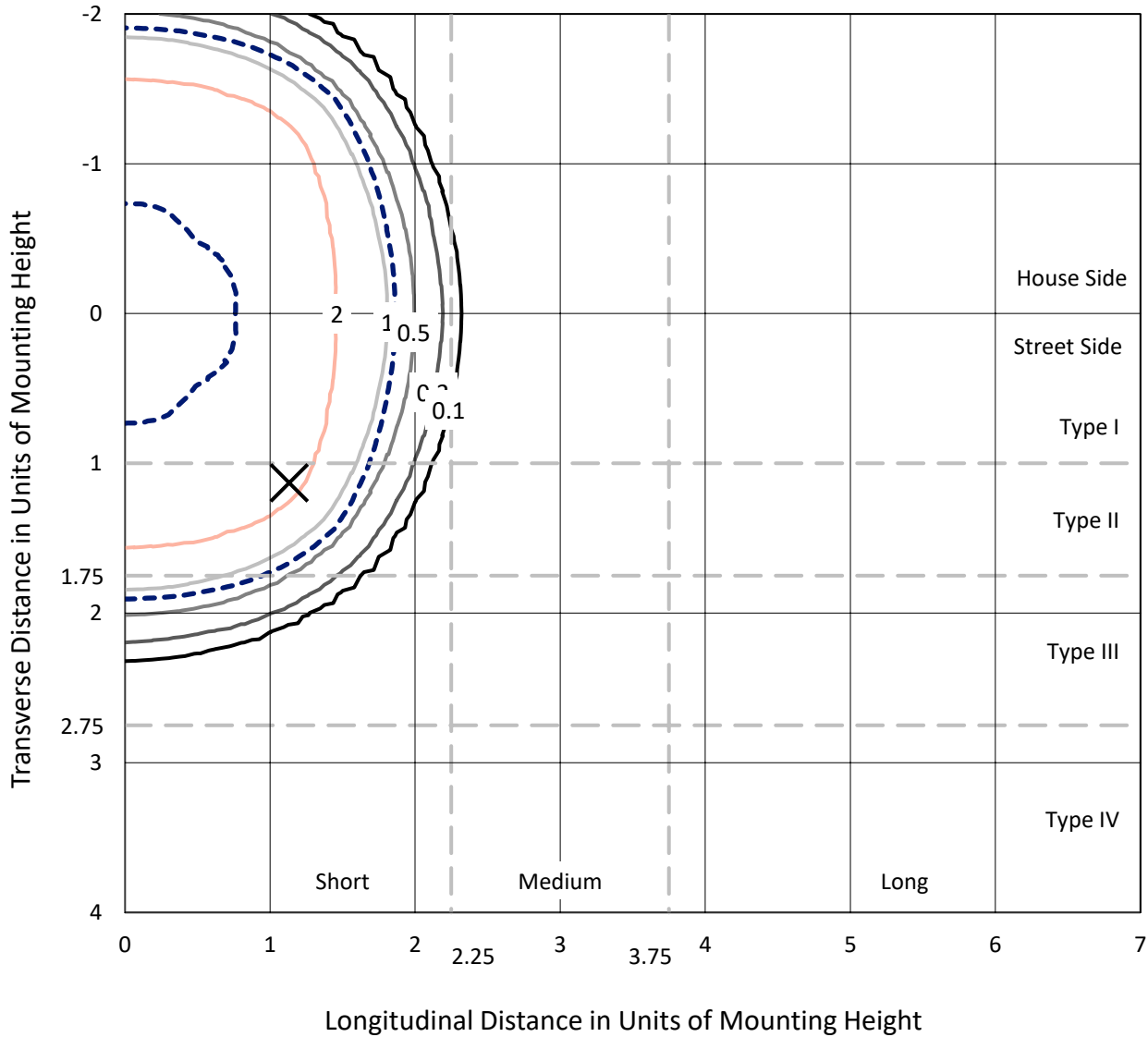


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Iso-Footcandle Lines of Horizontal Illumination

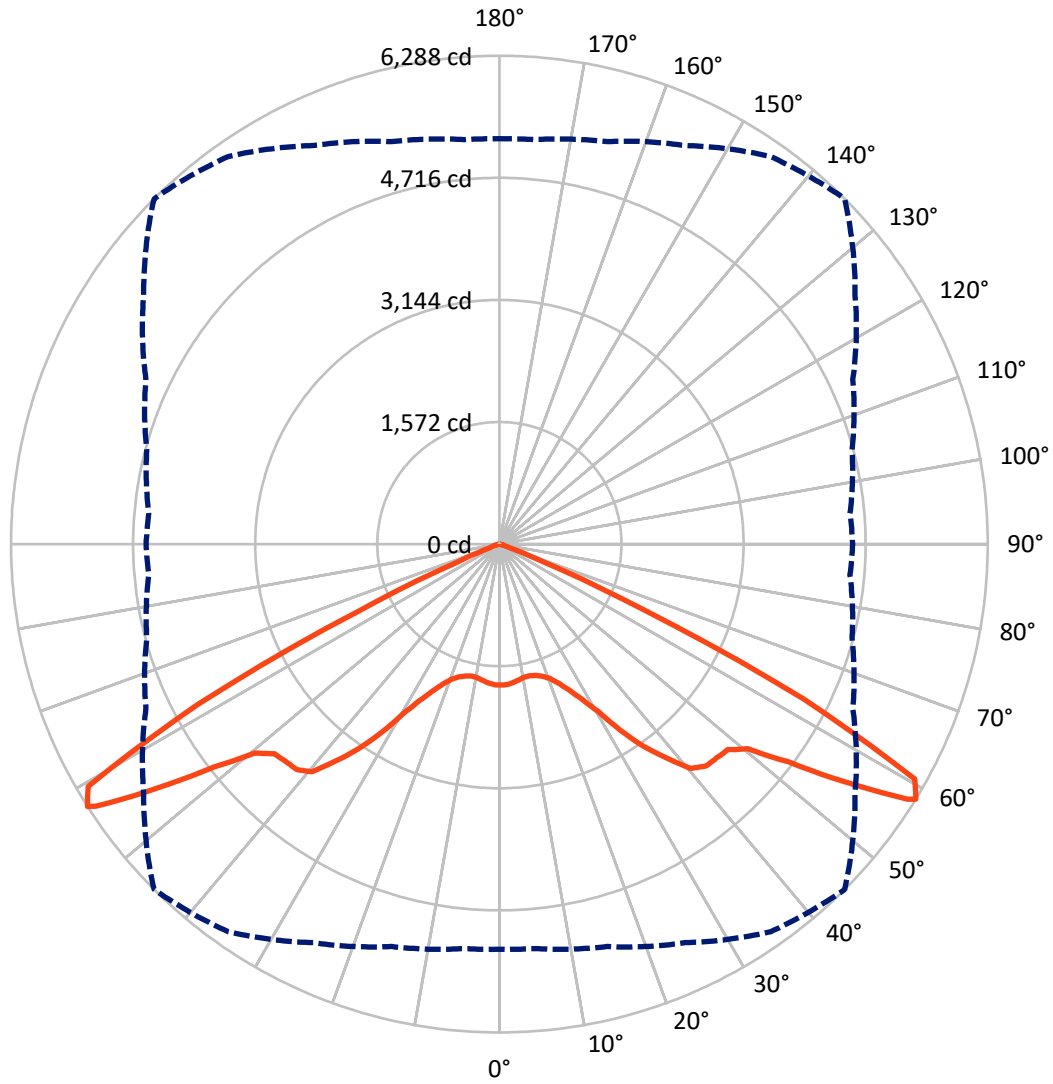
✕ Max cd
 - - - 1/2 Max cd



Based on 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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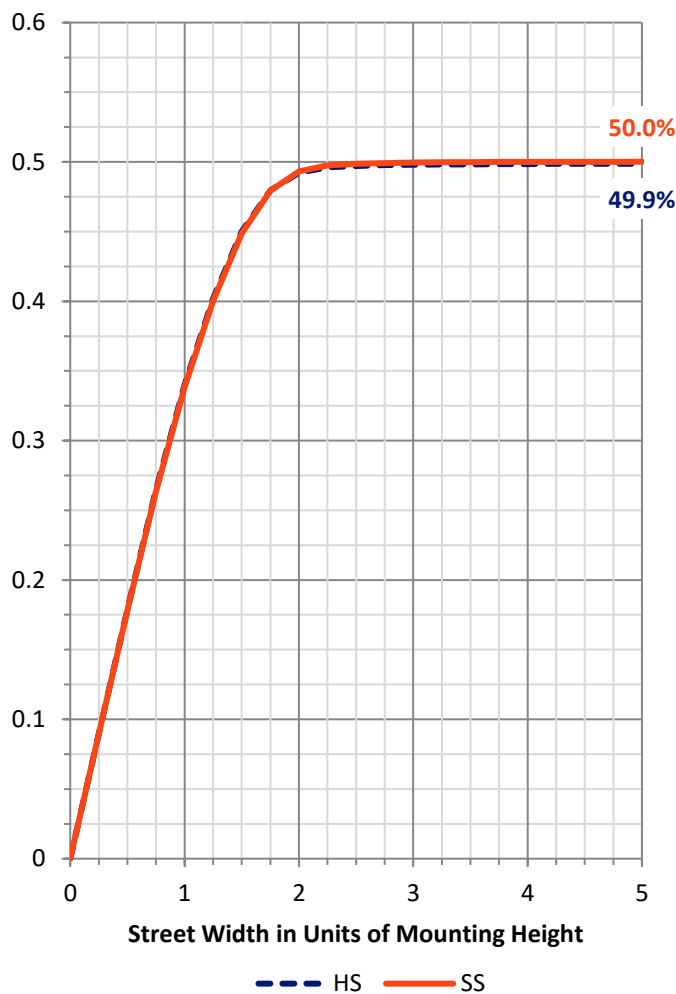
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6396.7	0.0	6396.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6396.7	0.0	6396.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	12793.5	0.0	12793.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	1.3
10°-20°	500.9	3.9
20°-30°	947.3	7.4
30°-40°	1868.3	14.6
40°-50°	2956.5	23.1
50°-60°	4345.9	34.0
60°-70°	1939.8	15.2
70°-80°	65.0	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°	12793.5	100.0
0°-180°	12793.5	100.0

Coefficient of Utilization



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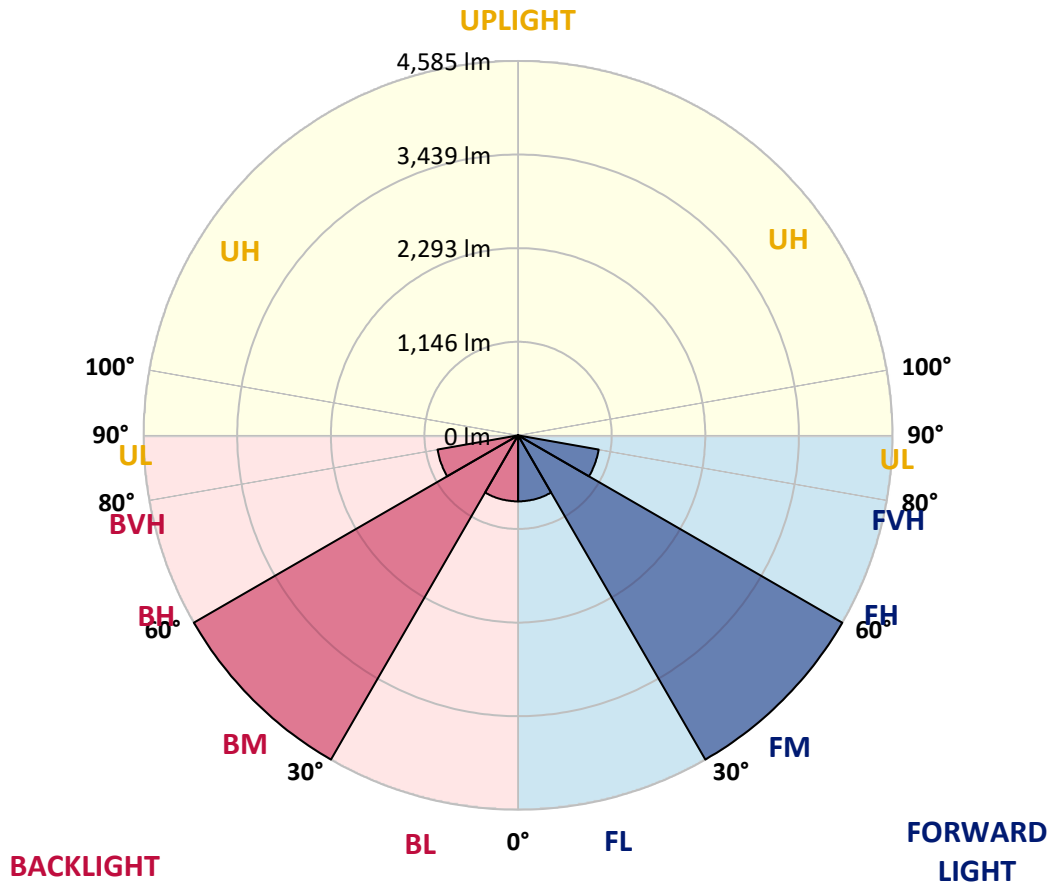
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	808.7	6.3			
FM (30°-60°)	4585.3	35.8			
FH (60°-80°)	1002.4	7.8			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	808.7	6.3	B2/1000		
BM (30°-60°)	4585.3	35.8	B3/5000		
BH (60°-80°)	1002.4	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°	1814.3	1814.3	1814.3	1814.3	1814.3	1814.3	1814.3	1814.3	1814.3	1814.3	1814.3
2.5°	1796.9	1800.3	1803.8	1805.6	1807.3	1812.5	1814.3	1809.1	1809.1	1798.6	1810.8
5°	1788.1	1791.6	1795.1	1793.4	1793.4	1793.4	1791.6	1784.7	1782.9	1772.5	1784.7
7.5°	1772.5	1775.9	1775.9	1770.7	1767.2	1767.2	1765.5	1756.8	1755.0	1744.6	1756.8
10°	1760.3	1762.0	1760.3	1749.8	1742.8	1742.8	1741.1	1737.6	1739.3	1732.4	1742.8
12.5°	1767.2	1769.0	1762.0	1748.1	1739.3	1737.6	1732.4	1727.1	1732.4	1730.6	1741.1
15°	1789.9	1791.6	1779.4	1762.0	1755.0	1755.0	1741.1	1727.1	1734.1	1735.9	1748.1
17.5°	1817.8	1817.8	1802.1	1786.4	1788.1	1788.1	1765.5	1741.1	1742.8	1749.8	1762.0
20°	1850.9	1850.9	1835.2	1831.7	1843.9	1845.7	1817.8	1779.4	1770.7	1775.9	1789.9
22.5°	1910.1	1910.1	1897.9	1906.7	1934.5	1943.3	1901.4	1847.4	1826.5	1830.0	1843.9
25°	2002.5	2002.5	1999.0	2019.9	2060.0	2079.2	2023.4	1952.0	1917.1	1911.9	1927.6
27.5°	2157.6	2159.4	2154.1	2185.5	2236.1	2258.7	2182.0	2087.9	2046.1	2037.4	2053.1
30°	2358.1	2358.1	2359.8	2403.4	2469.6	2499.2	2398.1	2288.3	2239.5	2211.7	2232.6
32.5°	2581.1	2584.6	2602.0	2675.2	2792.0	2853.0	2704.9	2551.5	2473.1	2443.5	2466.1
35°	2948.9	2915.8	2894.8	2948.9	3117.9	3198.1	3008.1	2828.6	2769.4	2765.9	2823.4
37.5°	3313.1	3294.0	3250.4	3306.2	3457.8	3494.4	3285.2	3135.4	3093.5	3116.2	3173.7
40°	3602.4	3567.6	3510.1	3562.3	3761.0	3797.6	3539.7	3391.6	3375.9	3426.4	3504.8
42.5°	3830.7	3781.9	3705.3	3717.5	3877.8	3903.9	3675.6	3564.1	3574.5	3637.3	3726.2
45°	3933.6	3895.2	3827.3	3822.0	3923.1	3924.9	3745.3	3687.8	3715.7	3764.5	3834.2
47.5°	3977.1	3959.7	3921.4	3912.7	3970.2	3956.2	3844.7	3820.3	3846.4	3860.4	3900.5
50°	4085.2	4085.2	4090.4	4097.4	4156.7	4142.7	4064.3	4036.4	4003.3	3954.5	3966.7
52.5°	4388.5	4400.7	4451.2	4507.0	4615.0	4660.3	4533.1	4371.0	4212.4	4106.1	4106.1
55°	4935.7	4947.9	5007.2	5101.3	5300.0	5408.0	5111.7	4754.4	4536.6	4391.9	4411.1
57.5°	5237.2	5251.2	5373.2	5627.6	6012.8	6195.8	5559.6	5029.8	4724.8	4559.2	4573.2
58°	5218.0	5226.8	5364.4	5662.5	6091.2	6288.1	5591.0	5021.1	4700.4	4531.4	4548.8
60°	4635.9	4623.7	4843.3	5268.6	5873.3	6145.2	5279.0	4583.6	4210.7	4038.1	4046.9
62.5°	3030.8	3037.8	3227.7	3672.1	4142.7	4398.9	3687.8	3170.2	2870.4	2765.9	2739.7
65°	1265.3	1242.6	1359.4	1606.9	1889.2	2032.1	1746.3	1477.9	1293.2	1223.5	1242.6
67.5°	325.9	317.2	324.2	406.1	496.7	587.3	493.2	376.5	327.7	331.1	331.1
70°	184.7	174.3	141.2	130.7	127.2	127.2	127.2	127.2	146.4	172.5	177.8
72.5°	139.4	130.7	102.8	88.9	78.4	73.2	76.7	88.9	106.3	129.0	132.5
75°	69.7	69.7	62.7	59.3	52.3	48.8	50.5	55.8	64.5	73.2	71.5
77.5°	13.9	15.7	17.4	20.9	17.4	17.4	17.4	20.9	20.9	22.7	20.9
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)