

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: P637966

Luminaire Tested: GWS-SA4D-830-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-830-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19722.2 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

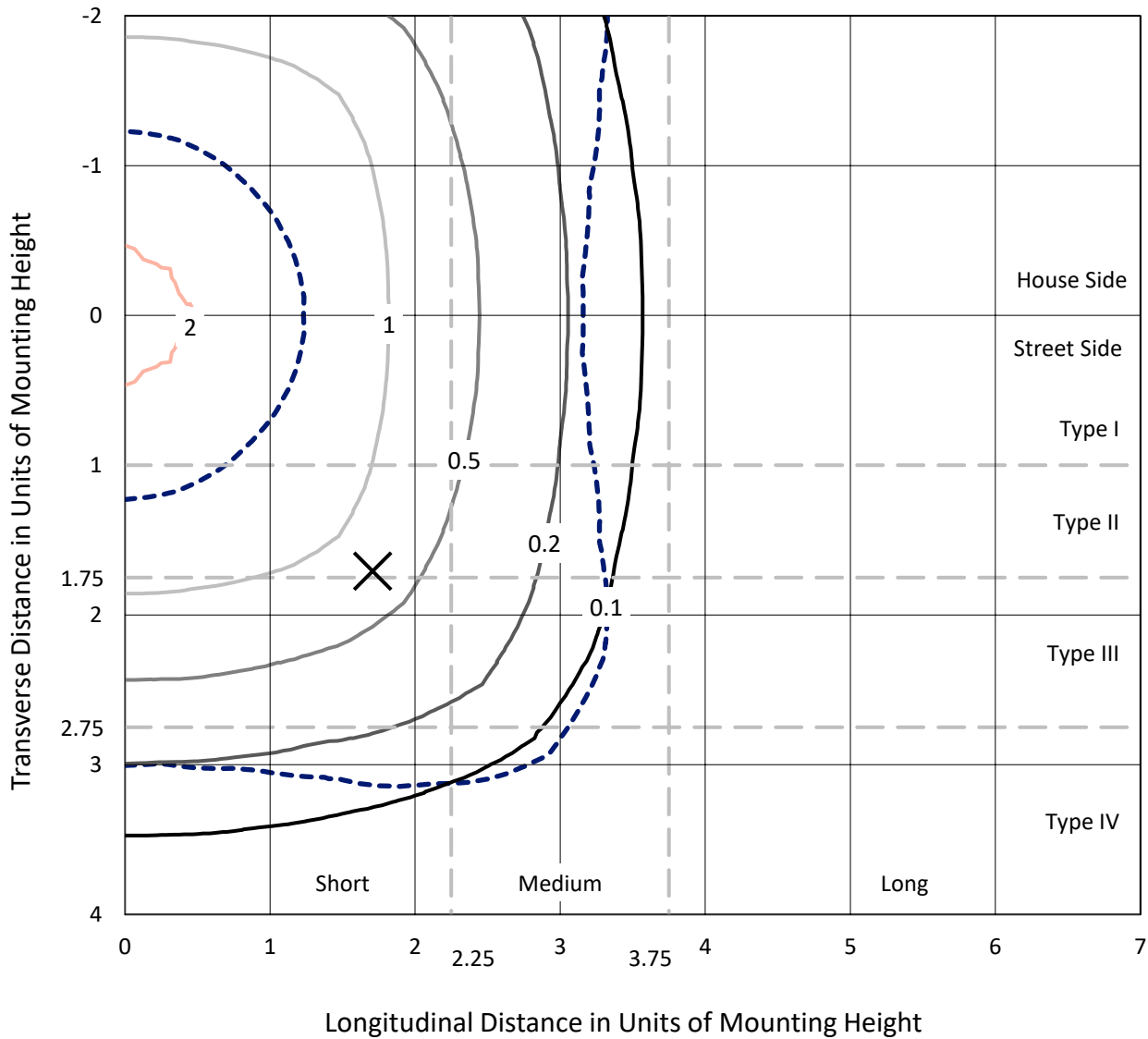
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

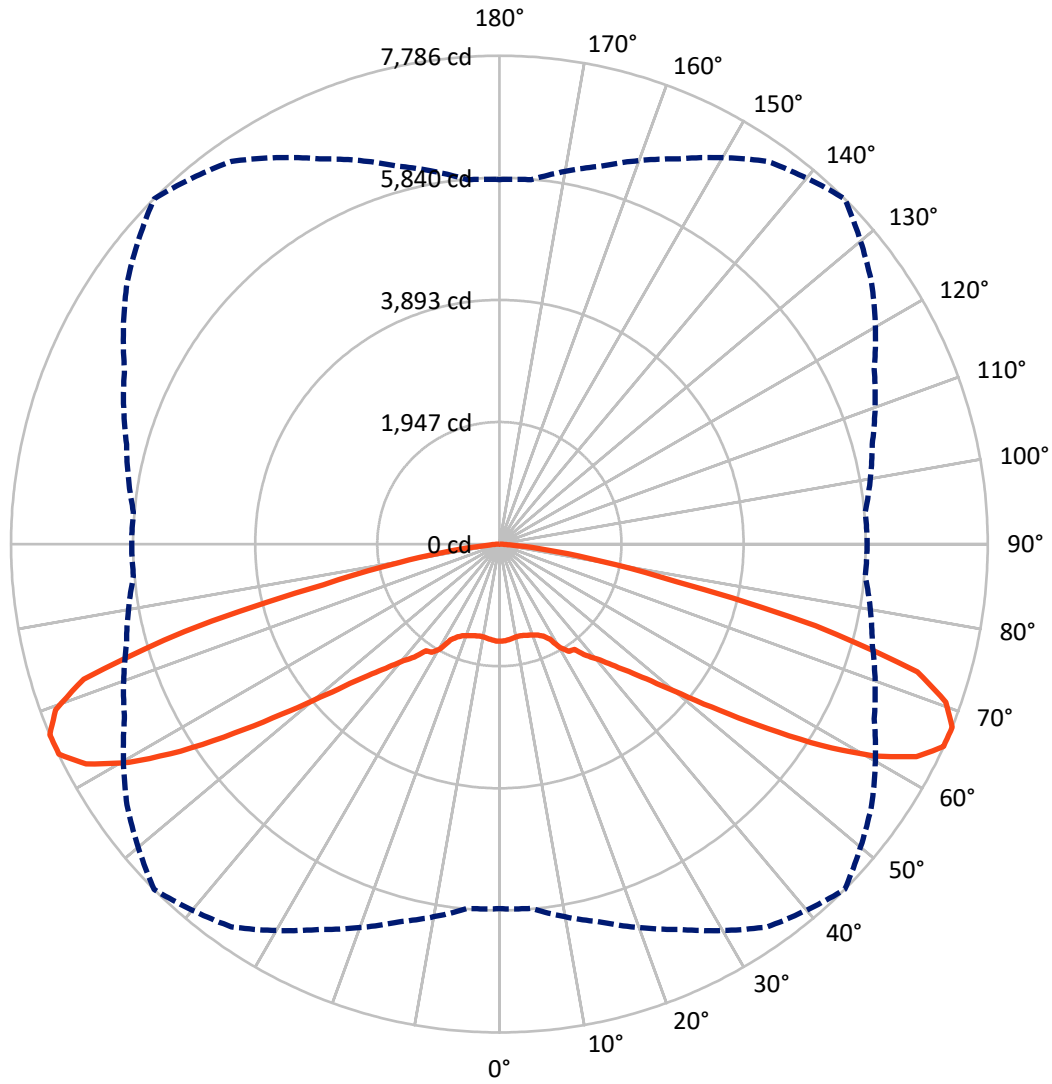
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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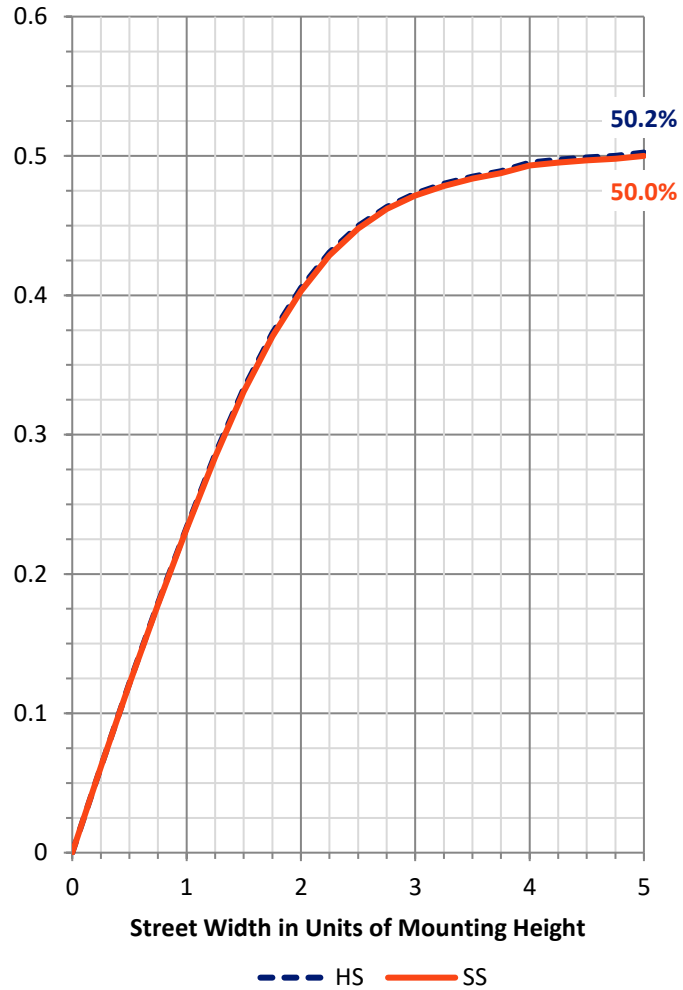
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9861.1	0.0	9861.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9861.1	0.0	9861.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	19722.2	0.0	19722.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	0.7
10°-20°	430.9	2.2
20°-30°	773.0	3.9
30°-40°	1305.9	6.6
40°-50°	2294.4	11.6
50°-60°	4426.1	22.4
60°-70°	6421.6	32.6
70°-80°	3674.2	18.6
80°-90°	250.8	1.3
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°	19722.2	100.0
0°-180°	19722.2	100.0

Coefficient of Utilization



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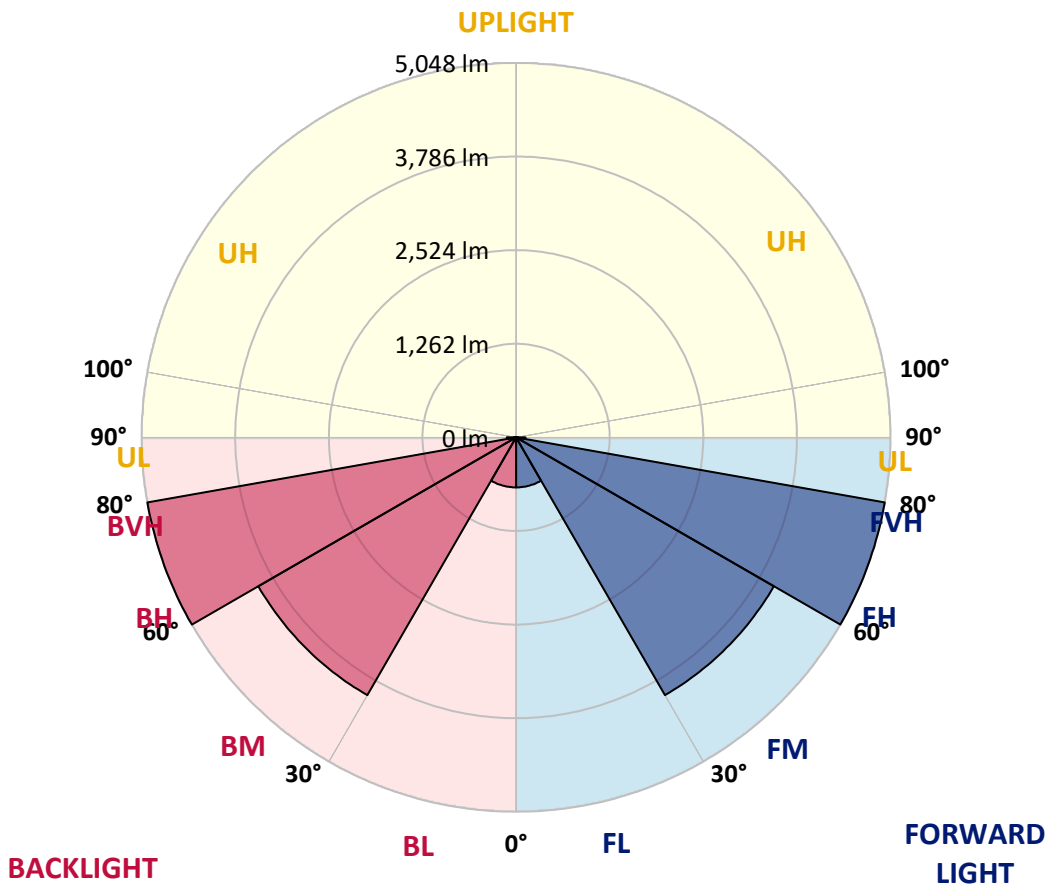
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	674.6	3.4			
FM (30°-60°)	4013.2	20.3			
FH (60°-80°)	5047.9	25.6			G3/7500
FVH (80°-90°)	125.4	0.6			G2/225
BL (0°-30°)	674.6	3.4	B2/1000		
BM (30°-60°)	4013.2	20.3	B3/5000		
BH (60°-80°)	5047.9	25.6	B5		G3/7500
BVH (80°-90°)	125.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6	1546.6
2.5°	1534.1	1535.5	1538.3	1538.3	1541.0	1545.2	1546.6	1543.8	1545.2	1538.3	1545.2
5°	1529.9	1531.3	1532.7	1529.9	1529.9	1531.3	1531.3	1528.5	1529.9	1522.9	1529.9
7.5°	1520.1	1521.5	1521.5	1517.3	1513.2	1515.9	1515.9	1513.2	1514.5	1507.6	1515.9
10°	1511.8	1511.8	1510.4	1502.0	1497.8	1502.0	1503.4	1504.8	1510.4	1504.8	1514.5
12.5°	1517.3	1517.3	1513.2	1502.0	1495.0	1497.8	1500.6	1503.4	1513.2	1511.8	1522.9
15°	1532.7	1534.1	1522.9	1510.4	1506.2	1510.4	1507.6	1506.2	1518.7	1522.9	1535.5
17.5°	1545.2	1545.2	1531.3	1518.7	1520.1	1527.1	1521.5	1514.5	1527.1	1535.5	1549.4
20°	1556.4	1555.0	1539.6	1531.3	1536.9	1546.6	1542.4	1532.7	1541.0	1550.8	1563.4
22.5°	1584.3	1582.9	1566.1	1562.0	1567.5	1577.3	1573.1	1564.8	1574.5	1588.5	1603.8
25°	1663.8	1661.0	1635.9	1621.9	1619.1	1626.1	1624.7	1621.9	1637.3	1654.0	1672.1
27.5°	1769.8	1768.4	1750.2	1736.3	1718.2	1712.6	1716.8	1729.3	1751.6	1764.2	1779.5
30°	1822.8	1822.8	1820.0	1842.3	1881.3	1919.0	1889.7	1842.3	1822.8	1817.2	1832.5
32.5°	1892.5	1899.5	1889.7	1914.8	1980.3	2036.1	1980.3	1903.6	1889.7	1889.7	1906.4
35°	2052.9	2055.7	2040.3	2036.1	2057.1	2064.0	2037.5	2009.6	2025.0	2027.8	2048.7
37.5°	2181.2	2181.2	2174.2	2185.4	2228.6	2255.1	2211.9	2161.6	2165.8	2168.6	2195.1
40°	2379.2	2384.8	2368.0	2366.7	2383.4	2407.1	2361.1	2329.0	2351.3	2358.3	2398.7
42.5°	2626.1	2626.1	2600.9	2594.0	2605.1	2630.2	2587.0	2566.1	2595.4	2600.9	2624.7
45°	2920.3	2927.3	2893.8	2881.3	2886.8	2895.2	2864.5	2854.8	2882.7	2895.2	2937.0
47.5°	3278.7	3285.7	3256.4	3255.0	3249.4	3255.0	3225.7	3220.2	3242.5	3232.7	3277.3
50°	3720.8	3733.4	3708.3	3743.1	3739.0	3755.7	3715.2	3686.0	3686.0	3659.5	3684.6
52.5°	4215.9	4241.0	4253.6	4312.1	4356.8	4398.6	4331.7	4285.6	4218.7	4164.3	4232.6
55°	4755.6	4748.6	4828.1	4956.4	5087.5	5186.6	5055.5	4910.4	4801.6	4688.7	4715.2
57.5°	5228.4	5252.1	5356.7	5591.0	5850.4	6059.6	5823.9	5545.0	5298.1	5136.4	5158.7
60°	5621.7	5641.2	5780.7	6118.2	6571.4	6860.1	6486.3	6026.1	5667.7	5444.6	5468.3
62.5°	5984.3	6002.4	6143.3	6515.6	7087.4	7464.0	6981.4	6352.5	5953.6	5729.1	5743.0
65°	6193.5	6204.6	6397.1	6789.0	7391.4	7780.5	7236.6	6588.1	6196.3	5967.5	5975.9
67.5°	5812.7	5830.9	6236.7	6777.8	7450.0	7786.1	7247.8	6595.1	6154.4	5856.0	5862.9
70°	4585.5	4570.1	5054.1	5984.3	7113.9	7551.8	6925.6	6100.0	5419.5	5002.5	4995.5
72.5°	3496.3	3500.5	3769.6	4407.0	5800.2	6968.9	6111.2	4911.8	4178.3	3861.7	3849.1
75°	2535.4	2574.5	2793.4	3260.6	4056.9	5208.9	4600.8	3639.9	3149.0	2959.4	2931.5
77.5°	1142.2	1192.4	1497.8	2047.3	2712.5	2878.5	2889.6	2471.2	1864.6	1549.4	1500.6
80°	333.3	357.0	458.8	785.2	1263.5	1633.1	1297.0	1090.6	679.2	532.7	507.6
82.5°	140.9	160.4	196.6	217.6	366.8	757.3	471.4	299.8	278.9	225.9	206.4
85°	60.0	64.2	82.3	87.9	118.5	161.8	149.2	135.3	129.7	100.4	92.0
87.5°	25.1	25.1	25.1	22.3	20.9	22.3	30.7	39.0	51.6	40.4	37.7
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)