

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P230950

Luminaire Tested: **ARCH-M-AF48-90-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-M-AF48-90-D-U-5WQ-7030
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 600mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11179 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 92
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

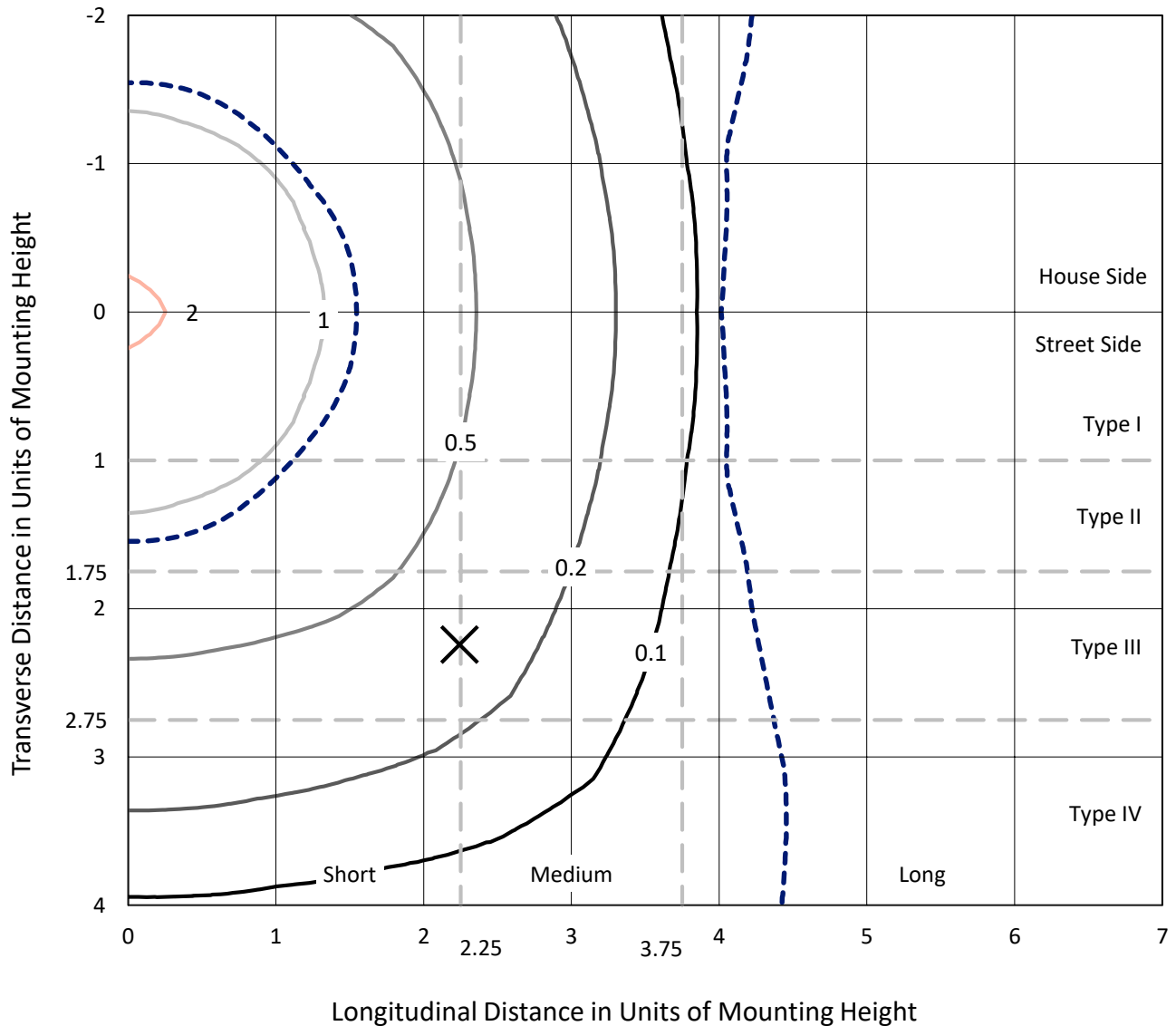


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

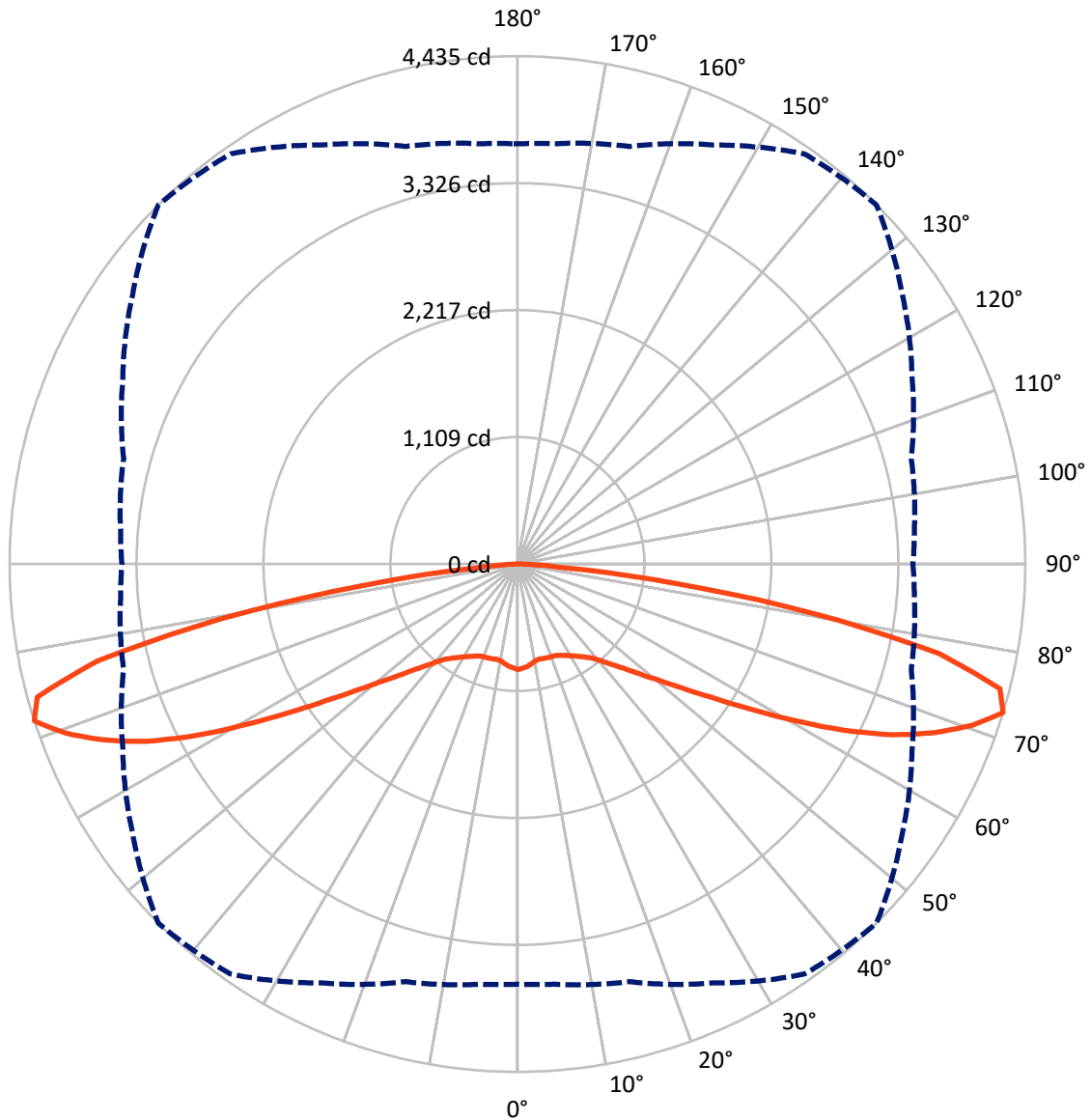


Based on 20 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5589.5	0.0	5589.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5589.5	0.0	5589.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11179.0	0.0	11179.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	0.8
10°-20°	244.6	2.2
20°-30°	409.4	3.7
30°-40°	629.0	5.6
40°-50°	1041.4	9.3
50°-60°	1851.5	16.6
60°-70°	3239.1	29.0
70°-80°	3295.5	29.5
80°-90°	383.7	3.4
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°	11179.0	100.0
0°-180°	11179.0	100.0



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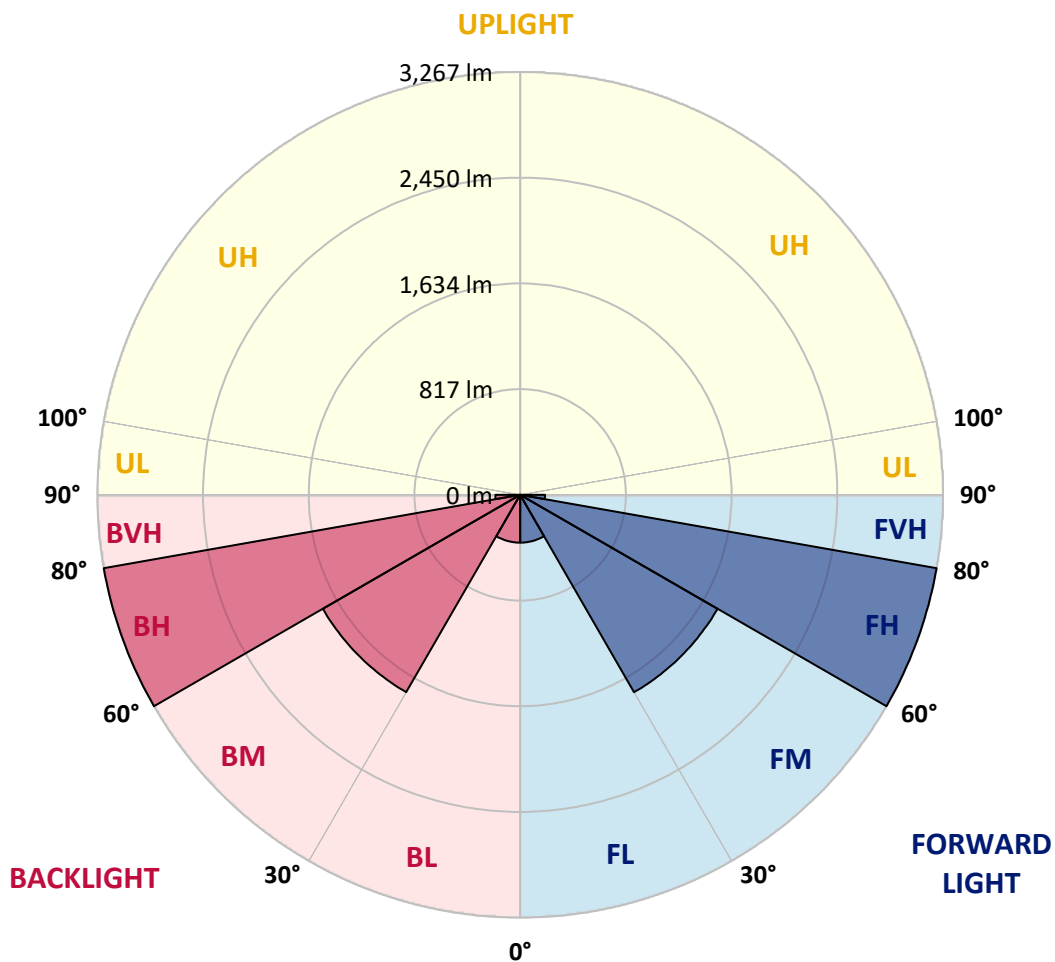
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.4	3.3			
FM	(30°-60°)	1760.9	15.8			
FH	(60°-80°)	3267.3	29.2			G2/5000
FVH	(80°-90°)	191.9	1.7			G2/225
BL	(0°-30°)	369.4	3.3	B1/500		
BM	(30°-60°)	1760.9	15.8	B2/2500		
BH	(60°-80°)	3267.3	29.2	B4/5000		G2/5000
BVH	(80°-90°)	191.9	1.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	921.4	921.4	921.4	921.4	921.4	921.4	921.4	921.4	921.4	921.4	921.4
2.5°	912.9	915.0	910.8	910.8	910.8	908.6	910.8	908.6	910.8	912.9	912.9
5°	904.4	904.4	900.1	900.1	900.1	898.0	900.1	900.1	902.3	904.4	904.4
7.5°	885.2	885.2	883.1	881.0	878.9	878.9	881.0	881.0	883.1	885.2	885.2
10°	874.6	872.5	868.2	861.8	859.7	857.6	861.8	866.1	872.5	878.9	876.7
12.5°	870.3	868.2	859.7	853.3	849.1	851.2	855.4	859.7	870.3	876.7	874.6
15°	874.6	870.3	859.7	849.1	851.2	855.4	859.7	859.7	872.5	878.9	878.9
17.5°	874.6	872.5	859.7	851.2	853.3	859.7	861.8	859.7	870.3	881.0	881.0
20°	876.7	876.7	859.7	853.3	855.4	861.8	864.0	861.8	870.3	883.1	883.1
22.5°	881.0	878.9	861.8	857.6	861.8	866.1	868.2	866.1	874.6	885.2	887.4
25°	889.5	885.2	870.3	868.2	876.7	883.1	883.1	878.9	883.1	893.7	893.7
27.5°	900.1	898.0	881.0	881.0	891.6	904.4	898.0	889.5	893.7	904.4	904.4
30°	919.3	917.2	900.1	900.1	915.0	929.9	915.0	904.4	910.8	921.4	923.5
32.5°	946.9	946.9	932.0	927.8	953.3	959.7	953.3	932.0	936.3	951.2	951.2
35°	993.8	989.5	974.6	972.5	998.0	995.9	993.8	974.6	978.9	995.9	995.9
37.5°	1055.5	1053.3	1040.6	1034.2	1047.0	1038.4	1042.7	1034.2	1044.8	1057.6	1059.7
40°	1134.2	1132.1	1121.4	1112.9	1117.2	1104.4	1108.7	1112.9	1123.6	1132.1	1134.2
42.5°	1232.1	1232.1	1221.5	1206.6	1200.2	1193.8	1193.8	1202.3	1212.9	1223.6	1223.6
45°	1353.4	1353.4	1340.6	1325.7	1306.6	1295.9	1300.2	1308.7	1321.5	1334.2	1338.5
47.5°	1496.0	1496.0	1478.9	1464.0	1444.9	1432.1	1432.1	1436.4	1455.5	1466.2	1472.6
50°	1655.6	1649.2	1632.2	1617.3	1606.6	1589.6	1591.7	1589.6	1606.6	1621.5	1625.8
52.5°	1821.5	1819.4	1802.4	1798.1	1804.5	1796.0	1796.0	1774.7	1781.1	1789.6	1787.5
55°	2028.0	2021.6	2006.7	2015.2	2040.7	2053.5	2049.2	2015.2	1996.0	2000.3	1998.2
57.5°	2253.5	2247.1	2242.9	2268.4	2325.9	2379.1	2368.4	2289.7	2253.5	2255.6	2257.8
60°	2483.3	2483.3	2496.1	2559.9	2683.4	2770.6	2738.7	2606.8	2542.9	2530.2	2525.9
62.5°	2719.5	2725.9	2753.6	2860.0	3049.4	3194.1	3113.2	2926.0	2830.2	2804.7	2796.1
65°	2994.0	3000.4	3040.9	3172.8	3423.9	3596.3	3457.9	3281.3	3147.3	3094.1	3085.6
67.5°	3392.0	3396.2	3428.2	3555.8	3792.0	3930.4	3787.8	3630.3	3485.6	3423.9	3419.6
70°	3749.5	3753.7	3781.4	3949.5	4166.6	4215.5	4058.0	3858.0	3706.9	3658.0	3649.5
72.5°	3668.6	3683.5	3775.0	4036.8	4370.8	4434.7	4102.7	3802.7	3560.1	3479.2	3453.7
75°	3077.0	3100.4	3245.1	3638.8	4170.8	4351.7	3838.9	3287.7	2926.0	2770.6	2730.2
77.5°	1796.0	1883.3	2132.2	2636.6	3396.2	3764.4	3162.2	2406.7	1798.1	1542.8	1457.7
80°	491.6	538.4	719.3	1212.9	2130.1	2636.6	2017.3	1104.4	595.8	446.9	415.0
82.5°	155.3	206.4	261.7	349.0	836.3	1389.6	749.0	325.6	255.4	210.7	187.3
85°	83.0	89.4	146.8	170.2	251.1	389.4	231.9	170.2	153.2	112.8	106.4
87.5°	42.6	44.7	83.0	83.0	110.7	91.5	100.0	91.5	87.2	55.3	48.9
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)