

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: P234775

Luminaire Tested: **ARCH-M-AF48-130-D-U-5WQ-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234775
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-AF48-130-D-U-5WQ-8027
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 845mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12878 lumens
Efficiency: N/A
Efficacy: 98.3 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): 131
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

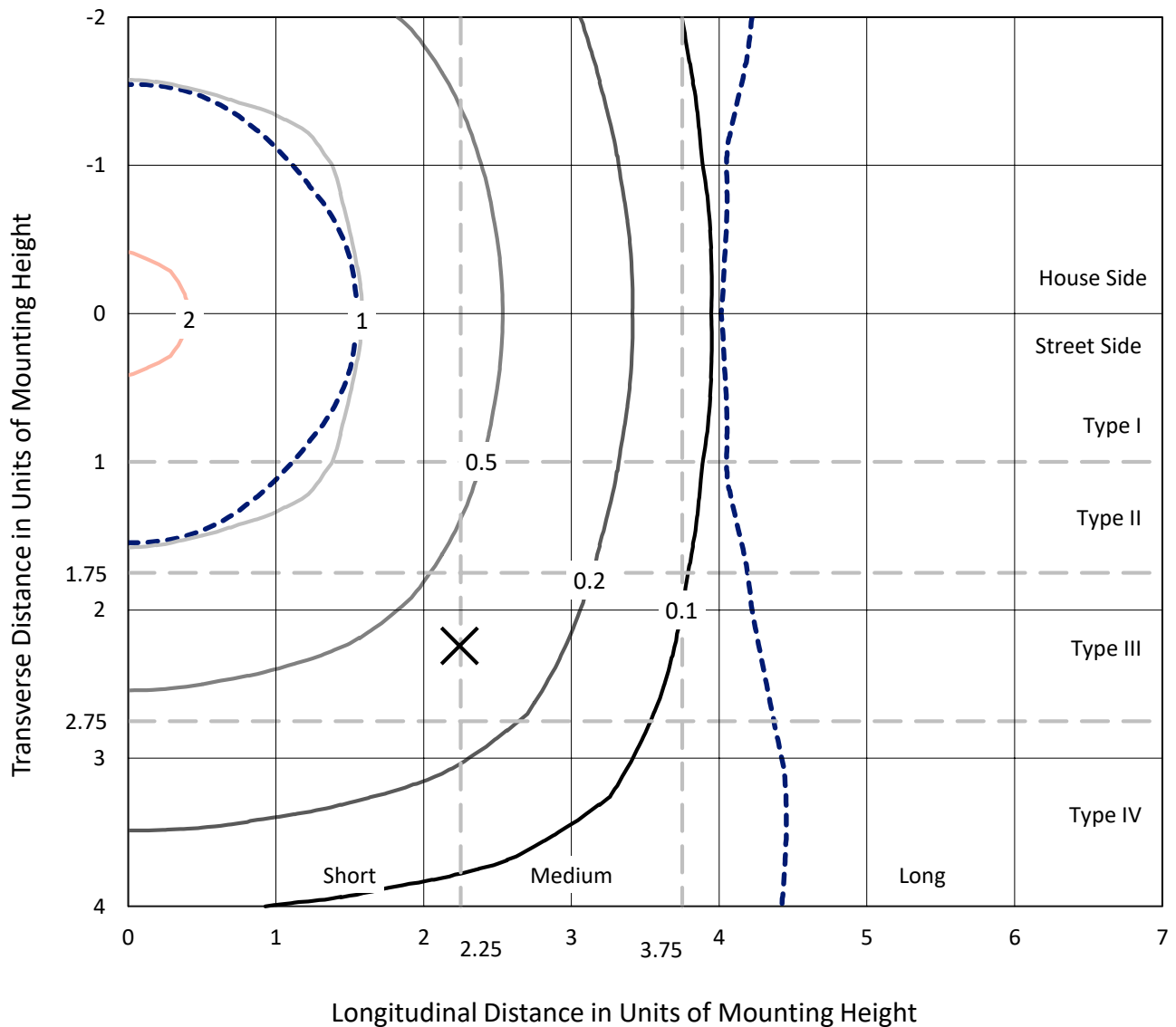


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

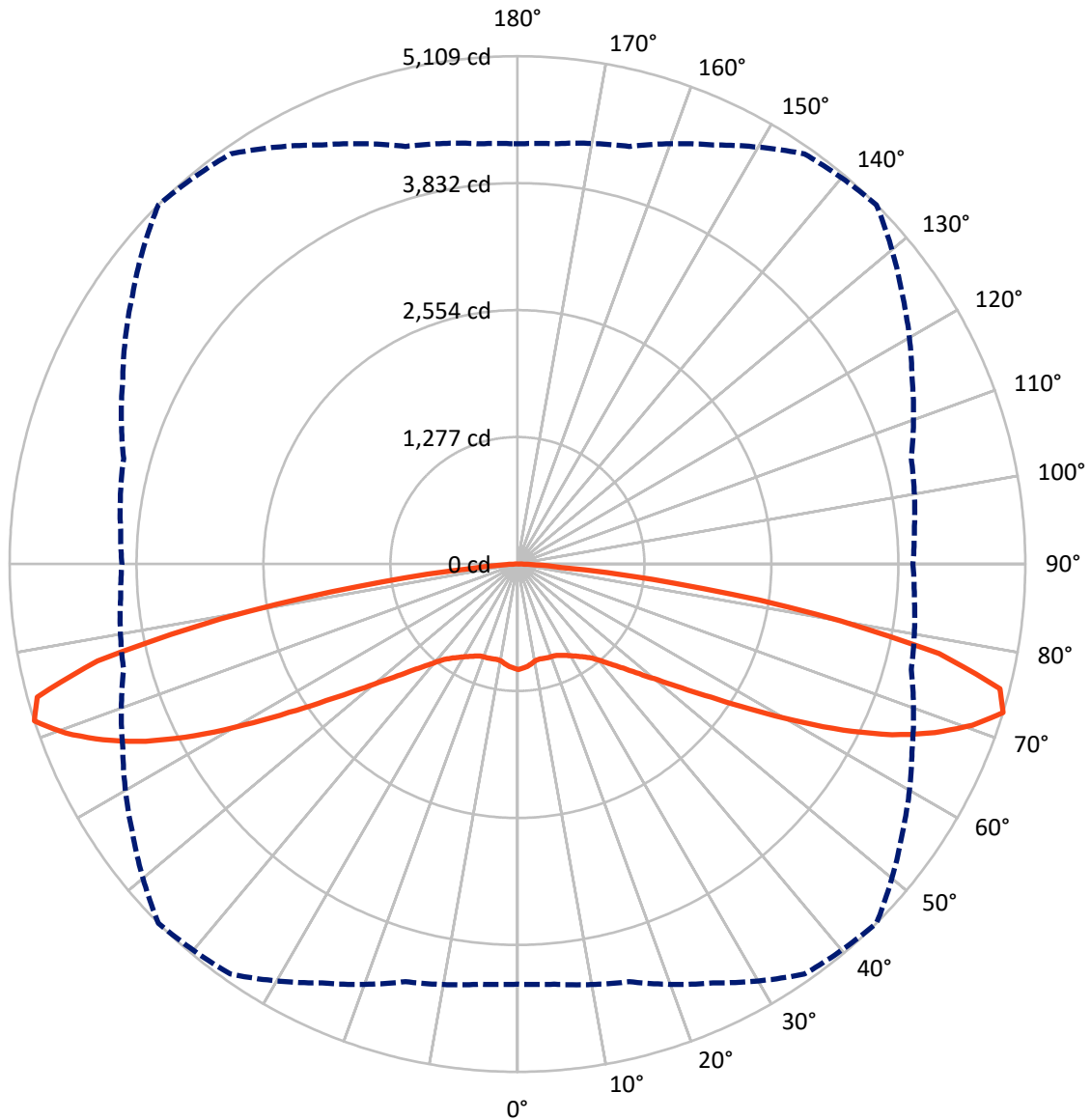


Based on 20 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Non-Cutoff

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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	6439.0	0.0	6439.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6439.0	0.0	6439.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12878.0	0.0	12878.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	0.8
10°-20°	281.8	2.2
20°-30°	471.6	3.7
30°-40°	724.6	5.6
40°-50°	1199.7	9.3
50°-60°	2132.9	16.6
60°-70°	3731.4	29.0
70°-80°	3796.4	29.5
80°-90°	442.1	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°	12878.0	100.0
0°-180°	12878.0	100.0



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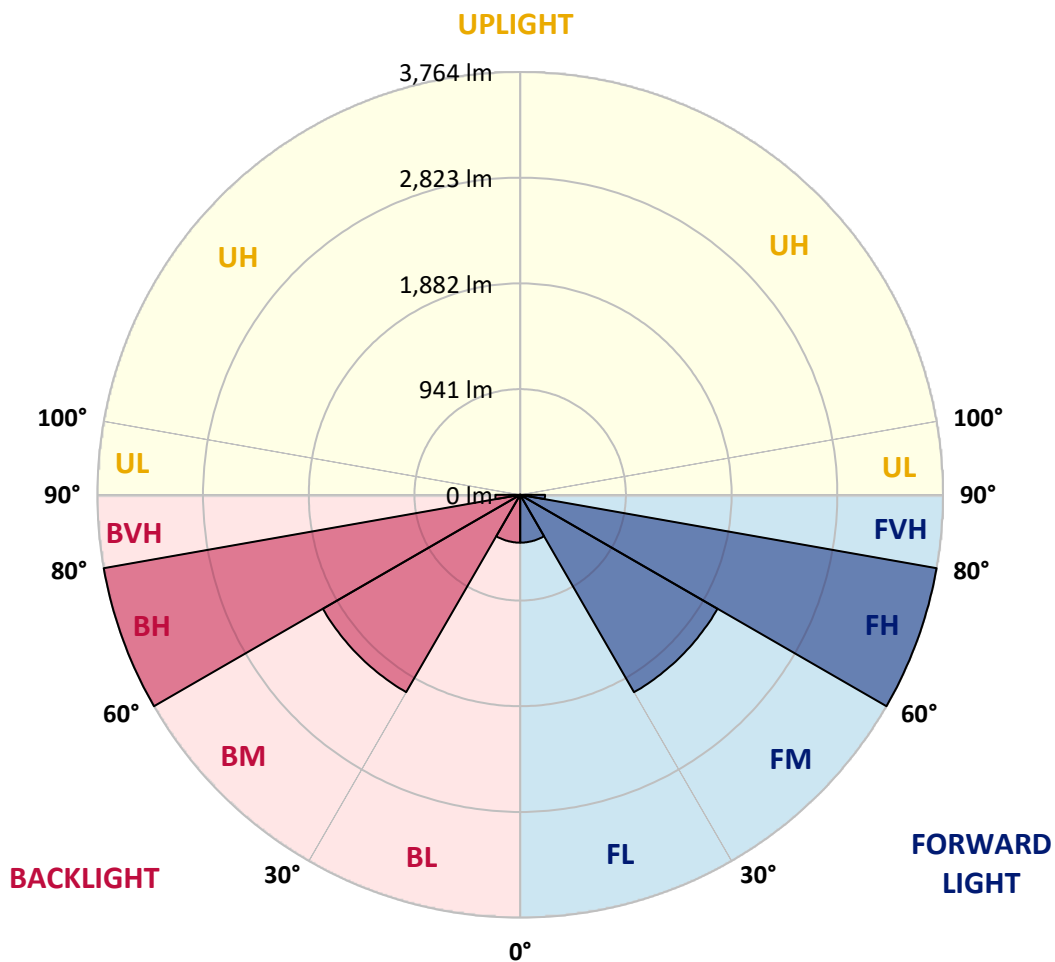
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	425.5	3.3			
FM	(30°-60°)	2028.6	15.8			
FH	(60°-80°)	3763.9	29.2			G2/5000
FVH	(80°-90°)	221.0	1.7			G2/225
BL	(0°-30°)	425.5	3.3	B1/500		
BM	(30°-60°)	2028.6	15.8	B2/2500		
BH	(60°-80°)	3763.9	29.2	B4/5000		G2/5000
BVH	(80°-90°)	221.0	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°	1061.4	1061.4	1061.4	1061.4	1061.4	1061.4	1061.4	1061.4	1061.4	1061.4	1061.4
2.5°	1051.6	1054.1	1049.2	1049.2	1049.2	1046.7	1049.2	1046.7	1049.2	1051.6	1051.6
5°	1041.8	1041.8	1036.9	1036.9	1036.9	1034.5	1036.9	1036.9	1039.4	1041.8	1041.8
7.5°	1019.8	1019.8	1017.3	1014.9	1012.4	1012.4	1014.9	1014.9	1017.3	1019.8	1019.8
10°	1007.5	1005.1	1000.2	992.8	990.4	987.9	992.8	997.7	1005.1	1012.4	1010.0
12.5°	1002.6	1000.2	990.4	983.0	978.1	980.6	985.5	990.4	1002.6	1010.0	1007.5
15°	1007.5	1002.6	990.4	978.1	980.6	985.5	990.4	990.4	1005.1	1012.4	1012.4
17.5°	1007.5	1005.1	990.4	980.6	983.0	990.4	992.8	990.4	1002.6	1014.9	1014.9
20°	1010.0	1010.0	990.4	983.0	985.5	992.8	995.3	992.8	1002.6	1017.3	1017.3
22.5°	1014.9	1012.4	992.8	987.9	992.8	997.7	1000.2	997.7	1007.5	1019.8	1022.2
25°	1024.7	1019.8	1002.6	1000.2	1010.0	1017.3	1017.3	1012.4	1017.3	1029.6	1029.6
27.5°	1036.9	1034.5	1014.9	1014.9	1027.1	1041.8	1034.5	1024.7	1029.6	1041.8	1041.8
30°	1059.0	1056.5	1036.9	1036.9	1054.1	1071.3	1054.1	1041.8	1049.2	1061.4	1063.9
32.5°	1090.9	1090.9	1073.7	1068.8	1098.2	1105.6	1098.2	1073.7	1078.6	1095.8	1095.8
35°	1144.8	1139.9	1122.7	1120.3	1149.7	1147.2	1144.8	1122.7	1127.6	1147.2	1147.2
37.5°	1215.9	1213.4	1198.7	1191.4	1206.1	1196.3	1201.2	1191.4	1203.6	1218.3	1220.8
40°	1306.6	1304.1	1291.9	1282.1	1287.0	1272.3	1277.2	1282.1	1294.3	1304.1	1306.6
42.5°	1419.3	1419.3	1407.1	1389.9	1382.6	1375.2	1375.2	1385.0	1397.3	1409.5	1409.5
45°	1559.1	1559.1	1544.4	1527.2	1505.1	1492.9	1497.8	1507.6	1522.3	1537.0	1541.9
47.5°	1723.3	1723.3	1703.7	1686.5	1664.5	1649.8	1649.8	1654.7	1676.7	1689.0	1696.4
50°	1907.2	1899.8	1880.2	1863.0	1850.8	1831.2	1833.6	1831.2	1850.8	1867.9	1872.9
52.5°	2098.4	2095.9	2076.3	2071.4	2078.8	2069.0	2069.0	2044.4	2051.8	2061.6	2059.2
55°	2336.2	2328.8	2311.6	2321.5	2350.9	2365.6	2360.7	2321.5	2299.4	2304.3	2301.8
57.5°	2596.0	2588.7	2583.8	2613.2	2679.4	2740.6	2728.4	2637.7	2596.0	2598.5	2600.9
60°	2860.8	2860.8	2875.5	2949.0	3091.2	3191.7	3154.9	3002.9	2929.4	2914.7	2909.8
62.5°	3132.9	3140.2	3172.1	3294.7	3512.8	3679.5	3586.4	3370.6	3260.3	3230.9	3221.1
65°	3449.1	3456.4	3503.0	3655.0	3944.3	4142.8	3983.5	3780.0	3625.6	3564.3	3554.5
67.5°	3907.5	3912.4	3949.2	4096.3	4368.4	4527.7	4363.5	4182.0	4015.4	3944.3	3939.4
70°	4319.3	4324.2	4356.1	4549.8	4799.8	4856.2	4674.8	4444.3	4270.3	4213.9	4204.1
72.5°	4226.2	4243.3	4348.7	4650.3	5035.1	5108.7	4726.3	4380.6	4101.2	4008.0	3978.6
75°	3544.7	3571.7	3738.4	4191.9	4804.7	5013.1	4422.3	3787.4	3370.6	3191.7	3145.1
77.5°	2069.0	2169.5	2456.3	3037.3	3912.4	4336.5	3642.7	2772.5	2071.4	1777.2	1679.2
80°	566.3	620.2	828.6	1397.3	2453.8	3037.3	2323.9	1272.3	686.4	514.8	478.0
82.5°	179.0	237.8	301.5	402.0	963.4	1600.7	862.9	375.1	294.2	242.7	215.7
85°	95.6	103.0	169.1	196.1	289.3	448.6	267.2	196.1	176.5	129.9	122.6
87.5°	49.0	51.5	95.6	95.6	127.5	105.4	115.2	105.4	100.5	63.7	56.4
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)