

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: P234773

Luminaire Tested: **ARCH-M-AF48-110-D-U-5WQ-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234773
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-AF48-110-D-U-5WQ-8027
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11359 lumens
Efficiency: N/A
Efficacy: 102.3 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): 111
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

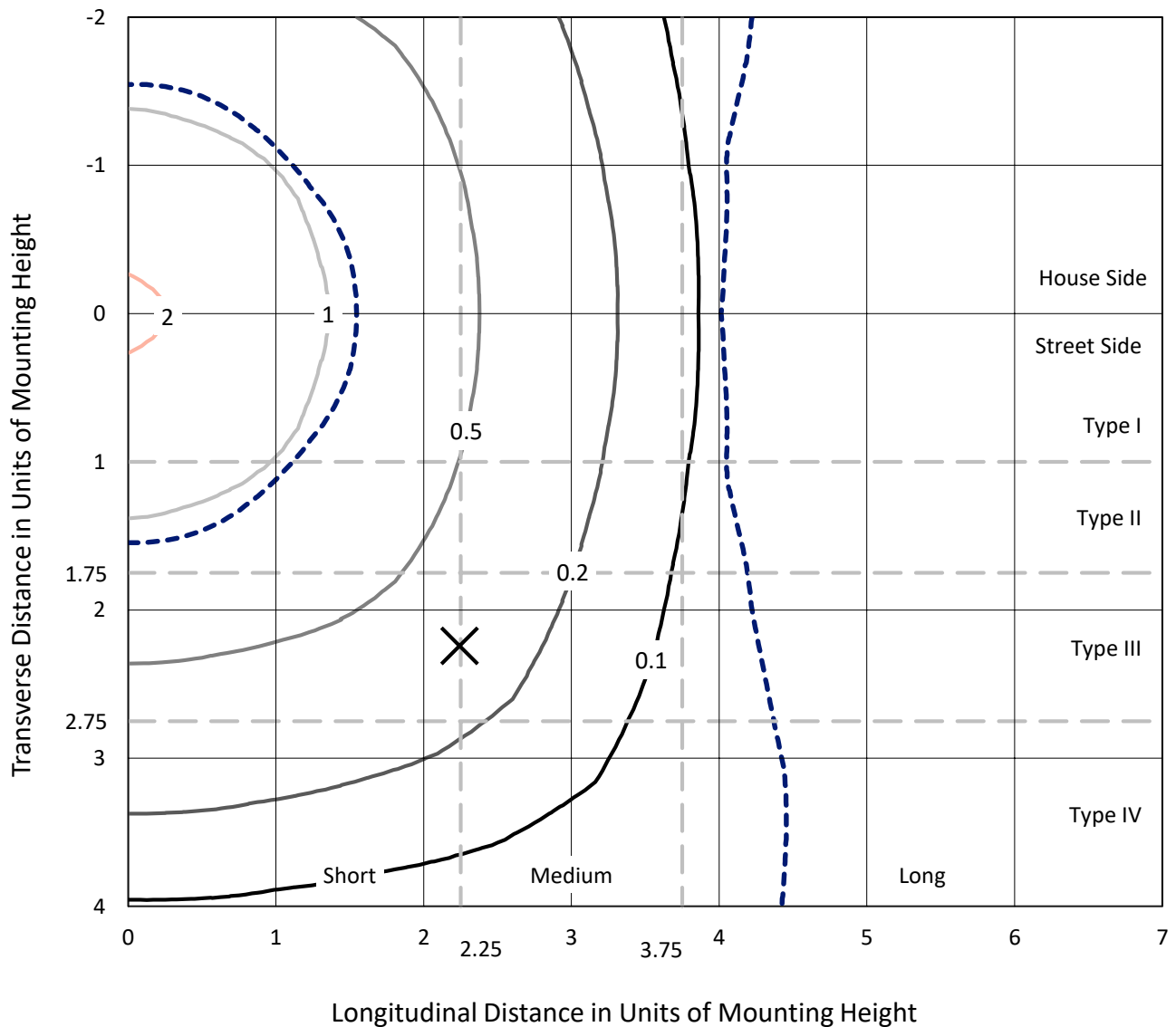


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

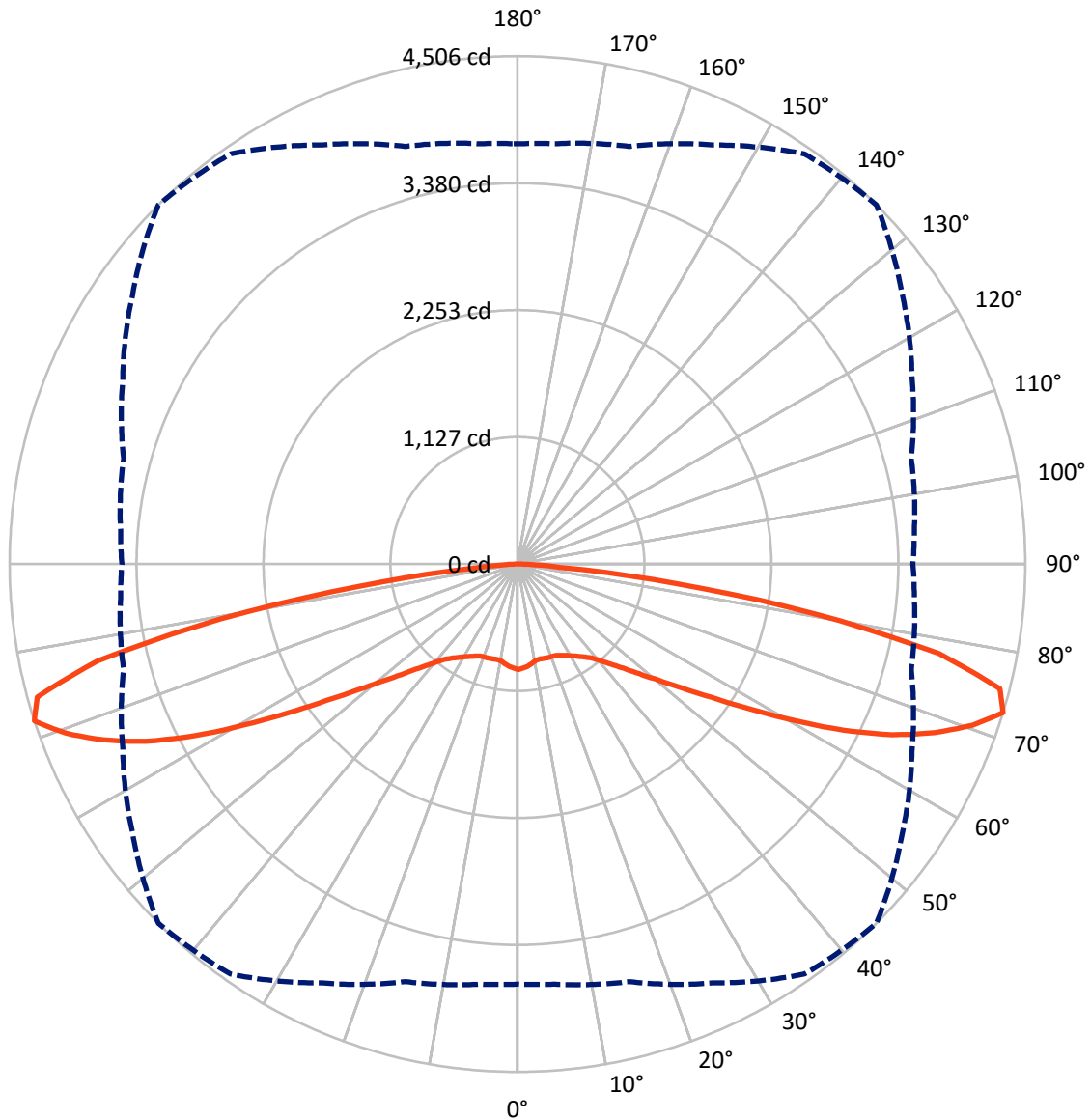


Based on 20 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Non-Cutoff

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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	5679.5	0.0	5679.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5679.5	0.0	5679.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11359.0	0.0	11359.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	0.8
10°-20°	248.6	2.2
20°-30°	415.9	3.7
30°-40°	639.1	5.6
40°-50°	1058.2	9.3
50°-60°	1881.3	16.6
60°-70°	3291.3	29.0
70°-80°	3348.6	29.5
80°-90°	389.9	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°	11359.0	100.0
0°-180°	11359.0	100.0



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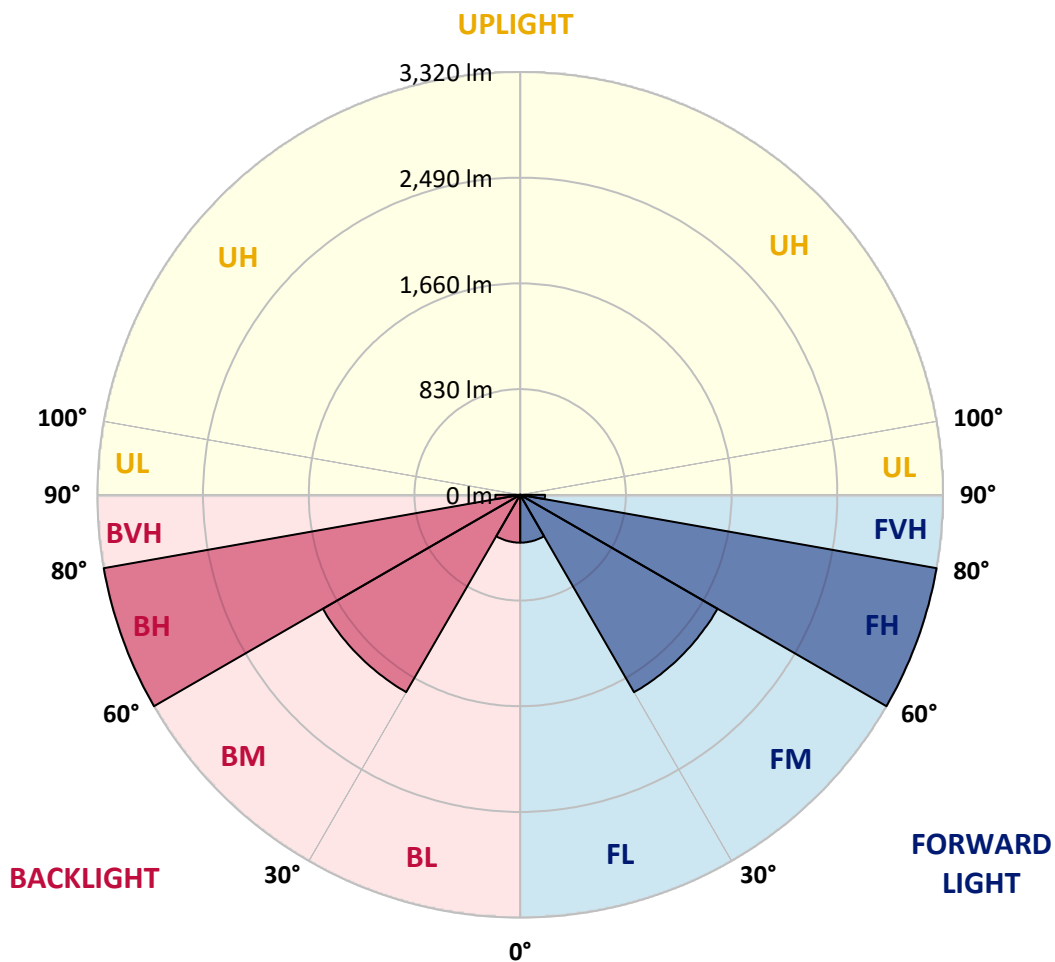
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	375.3	3.3			
FM	(30°-60°)	1789.3	15.8			
FH	(60°-80°)	3319.9	29.2			G2/5000
FVH	(80°-90°)	195.0	1.7			G2/225
BL	(0°-30°)	375.3	3.3	B1/500		
BM	(30°-60°)	1789.3	15.8	B2/2500		
BH	(60°-80°)	3319.9	29.2	B4/5000		G2/5000
BVH	(80°-90°)	195.0	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°	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2
2.5°	927.6	929.8	925.4	925.4	925.4	923.3	925.4	923.3	925.4	927.6	927.6
5°	918.9	918.9	914.6	914.6	914.6	912.5	914.6	914.6	916.8	918.9	918.9
7.5°	899.5	899.5	897.3	895.2	893.0	893.0	895.2	895.2	897.3	899.5	899.5
10°	888.7	886.5	882.2	875.7	873.5	871.4	875.7	880.0	886.5	893.0	890.8
12.5°	884.4	882.2	873.5	867.1	862.7	864.9	869.2	873.5	884.4	890.8	888.7
15°	888.7	884.4	873.5	862.7	864.9	869.2	873.5	873.5	886.5	893.0	893.0
17.5°	888.7	886.5	873.5	864.9	867.1	873.5	875.7	873.5	884.4	895.2	895.2
20°	890.8	890.8	873.5	867.1	869.2	875.7	877.9	875.7	884.4	897.3	897.3
22.5°	895.2	893.0	875.7	871.4	875.7	880.0	882.2	880.0	888.7	899.5	901.6
25°	903.8	899.5	884.4	882.2	890.8	897.3	897.3	893.0	897.3	908.1	908.1
27.5°	914.6	912.5	895.2	895.2	906.0	918.9	912.5	903.8	908.1	918.9	918.9
30°	934.1	931.9	914.6	914.6	929.8	944.9	929.8	918.9	925.4	936.2	938.4
32.5°	962.2	962.2	947.1	942.7	968.7	975.2	968.7	947.1	951.4	966.5	966.5
35°	1009.8	1005.4	990.3	988.1	1014.1	1011.9	1009.8	990.3	994.6	1011.9	1011.9
37.5°	1072.5	1070.3	1057.3	1050.8	1063.8	1055.2	1059.5	1050.8	1061.7	1074.6	1076.8
40°	1152.5	1150.3	1139.5	1130.8	1135.2	1122.2	1126.5	1130.8	1141.7	1150.3	1152.5
42.5°	1251.9	1251.9	1241.1	1226.0	1219.5	1213.0	1213.0	1221.7	1232.5	1243.3	1243.3
45°	1375.2	1375.2	1362.2	1347.1	1327.6	1316.8	1321.1	1329.8	1342.7	1355.7	1360.0
47.5°	1520.0	1520.0	1502.7	1487.6	1468.2	1455.2	1455.2	1459.5	1479.0	1489.8	1496.3
50°	1682.2	1675.7	1658.4	1643.3	1632.5	1615.2	1617.3	1615.2	1632.5	1647.6	1651.9
52.5°	1850.9	1848.7	1831.4	1827.1	1833.6	1824.9	1824.9	1803.3	1809.8	1818.4	1816.3
55°	2060.6	2054.1	2039.0	2047.6	2073.6	2086.6	2082.2	2047.6	2028.2	2032.5	2030.3
57.5°	2289.8	2283.3	2279.0	2304.9	2363.3	2417.4	2406.6	2326.6	2289.8	2292.0	2294.1
60°	2523.3	2523.3	2536.3	2601.2	2726.6	2815.2	2782.8	2648.7	2583.9	2570.9	2566.6
62.5°	2763.3	2769.8	2797.9	2906.0	3098.5	3245.5	3163.3	2973.1	2875.8	2849.8	2841.2
65°	3042.3	3048.7	3089.8	3223.9	3479.0	3654.2	3513.6	3334.2	3197.9	3143.9	3135.2
67.5°	3446.6	3450.9	3483.4	3613.1	3853.1	3993.6	3848.8	3688.8	3541.7	3479.0	3474.7
70°	3809.8	3814.2	3842.3	4013.1	4233.6	4283.4	4123.4	3920.1	3766.6	3716.9	3708.2
72.5°	3727.7	3742.8	3835.8	4101.8	4441.2	4506.1	4168.8	3863.9	3617.4	3535.2	3509.3
75°	3126.6	3150.4	3297.4	3697.4	4238.0	4421.8	3900.7	3340.6	2973.1	2815.2	2774.1
77.5°	1824.9	1913.6	2166.6	2679.0	3450.9	3825.0	3213.1	2445.5	1827.1	1567.6	1481.1
80°	499.5	547.0	730.8	1232.5	2164.4	2679.0	2049.8	1122.2	605.4	454.1	421.6
82.5°	157.8	209.7	266.0	354.6	849.8	1411.9	761.1	330.8	259.5	214.1	190.3
85°	84.3	90.8	149.2	173.0	255.1	395.7	235.7	173.0	155.7	114.6	108.1
87.5°	43.2	45.4	84.3	84.3	112.4	93.0	101.6	93.0	88.7	56.2	49.7
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)