

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: P265805

Luminaire Tested: **ARCH-M-AF48-100-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265805
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-AF48-100-D-U-5WQ-7027
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 660mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11874 lumens
Efficiency: N/A
Efficacy: 117.6 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

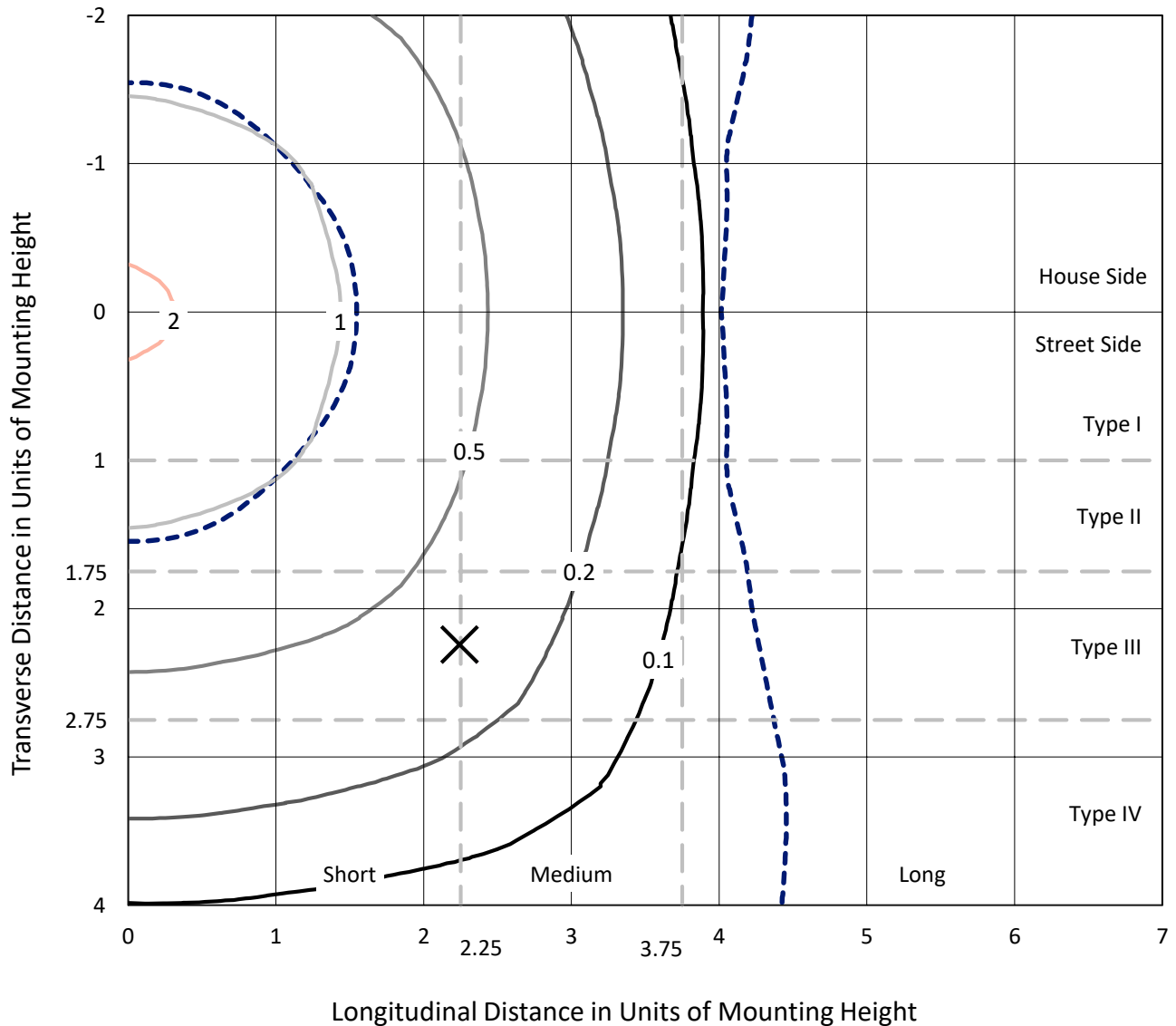
Input Watts (W): 101
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

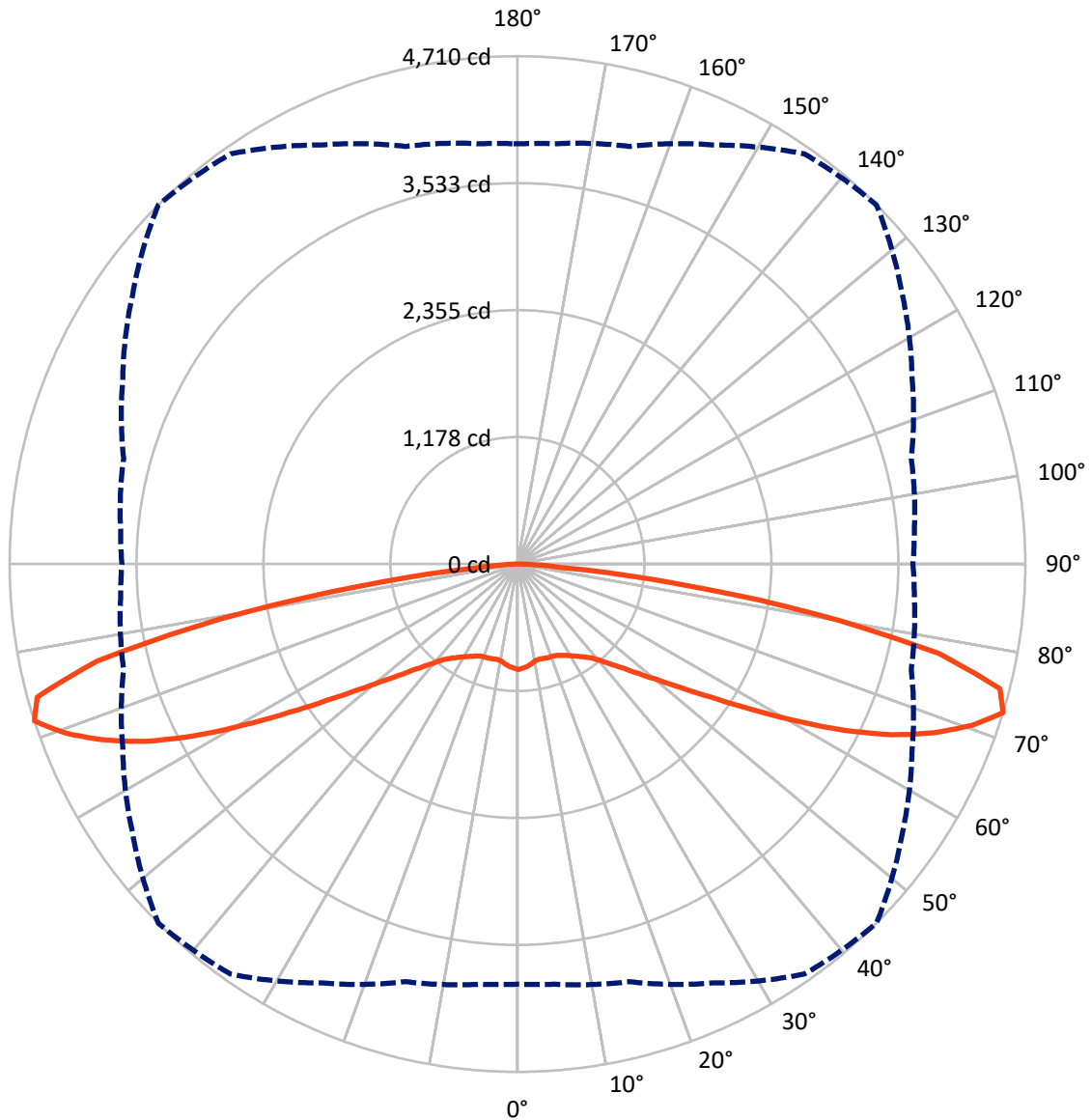


Based on 20 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Non-Cutoff

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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	5937.0	0.0	5937.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5937.0	0.0	5937.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11874.0	0.0	11874.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	0.8
10°-20°	259.8	2.2
20°-30°	434.8	3.7
30°-40°	668.1	5.6
40°-50°	1106.2	9.3
50°-60°	1966.6	16.6
60°-70°	3440.5	29.0
70°-80°	3500.4	29.5
80°-90°	407.6	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°	11874.0	100.0
0°-180°	11874.0	100.0



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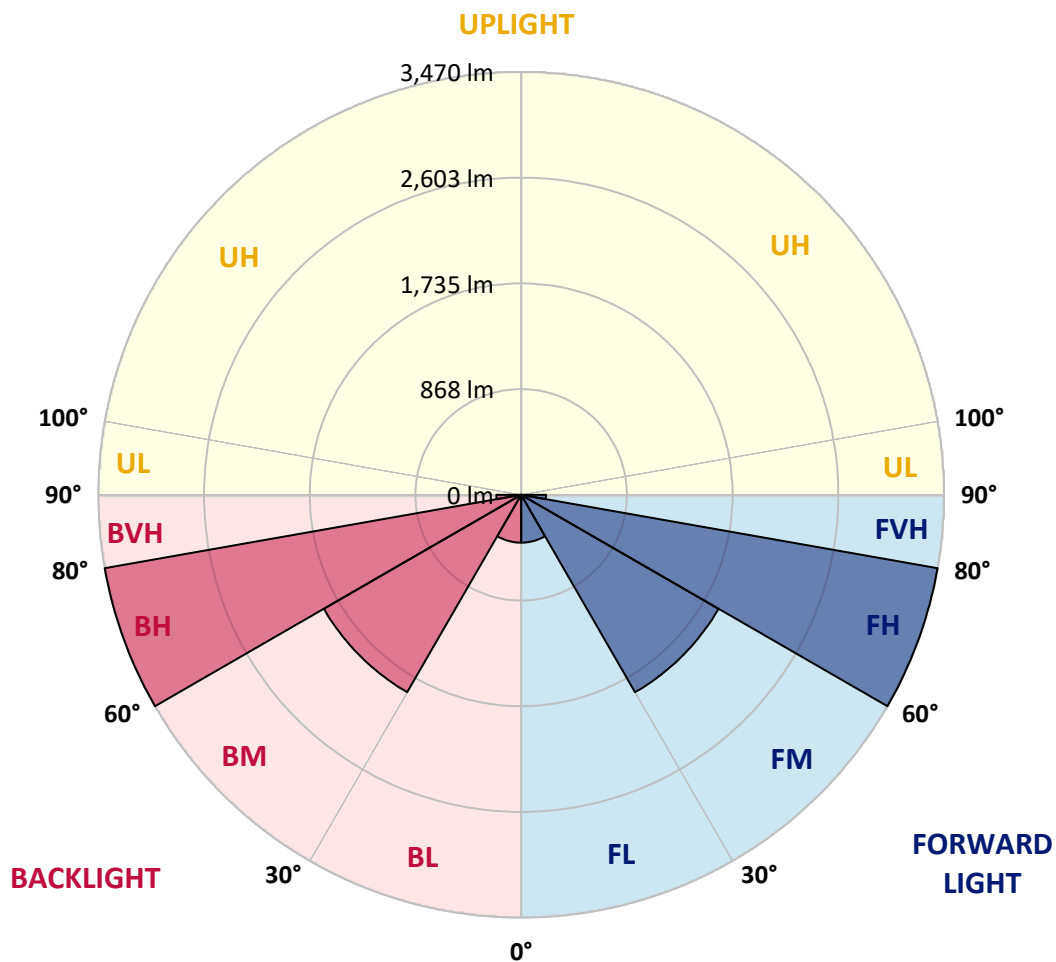
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	392.3	3.3			
FM	(30°-60°)	1870.4	15.8			
FH	(60°-80°)	3470.4	29.2			G2/5000
FVH	(80°-90°)	203.8	1.7			G2/225
BL	(0°-30°)	392.3	3.3	B1/500		
BM	(30°-60°)	1870.4	15.8	B2/2500		
BH	(60°-80°)	3470.4	29.2	B4/5000		G2/5000
BVH	(80°-90°)	203.8	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°	978.8	978.8	978.8	978.8	978.8	978.8	978.8	978.8	978.8	978.8	978.8
2.5°	969.6	971.8	967.4	967.4	967.4	965.0	967.4	965.0	967.4	969.6	969.6
5°	960.6	960.6	956.1	956.1	956.1	953.8	956.1	956.1	958.3	960.6	960.6
7.5°	940.3	940.3	938.0	935.8	933.5	933.5	935.8	935.8	938.0	940.3	940.3
10°	928.9	926.7	922.2	915.5	913.1	910.9	915.5	920.0	926.7	933.5	931.3
12.5°	924.4	922.2	913.1	906.4	901.9	904.1	908.6	913.1	924.4	931.3	928.9
15°	928.9	924.4	913.1	901.9	904.1	908.6	913.1	913.1	926.7	933.5	933.5
17.5°	928.9	926.7	913.1	904.1	906.4	913.1	915.5	913.1	924.4	935.8	935.8
20°	931.3	931.3	913.1	906.4	908.6	915.5	917.7	915.5	924.4	938.0	938.0
22.5°	935.8	933.5	915.5	910.9	915.5	920.0	922.2	920.0	928.9	940.3	942.5
25°	944.7	940.3	924.4	922.2	931.3	938.0	938.0	933.5	938.0	949.2	949.2
27.5°	956.1	953.8	935.8	935.8	947.1	960.6	953.8	944.7	949.2	960.6	960.6
30°	976.5	974.2	956.1	956.1	971.8	987.7	971.8	960.6	967.4	978.8	980.9
32.5°	1005.8	1005.8	990.0	985.5	1012.6	1019.3	1012.6	990.0	994.6	1010.4	1010.4
35°	1055.6	1050.9	1035.1	1033.0	1060.1	1057.8	1055.6	1035.1	1039.7	1057.8	1057.8
37.5°	1121.1	1118.7	1105.3	1098.4	1112.0	1102.9	1107.5	1098.4	1109.8	1123.3	1125.5
40°	1204.6	1202.4	1191.2	1182.1	1186.7	1173.0	1177.6	1182.1	1193.4	1202.4	1204.6
42.5°	1308.7	1308.7	1297.4	1281.5	1274.8	1268.0	1268.0	1277.0	1288.3	1299.7	1299.7
45°	1437.5	1437.5	1424.0	1408.2	1387.8	1376.6	1381.1	1390.0	1403.6	1417.2	1421.7
47.5°	1588.9	1588.9	1570.9	1555.1	1534.8	1521.2	1521.2	1525.7	1546.1	1557.3	1564.0
50°	1758.5	1751.7	1733.5	1717.7	1706.5	1688.5	1690.7	1688.5	1706.5	1722.3	1726.8
52.5°	1934.8	1932.6	1914.5	1909.9	1916.8	1907.6	1907.6	1885.1	1891.8	1900.9	1898.6
55°	2154.0	2147.3	2131.4	2140.4	2167.6	2181.2	2176.7	2140.4	2120.1	2124.6	2122.3
57.5°	2393.7	2386.8	2382.3	2409.4	2470.5	2526.9	2515.7	2432.0	2393.7	2395.9	2398.1
60°	2637.8	2637.8	2651.3	2719.1	2850.2	2942.8	2908.9	2768.8	2701.1	2687.4	2682.9
62.5°	2888.6	2895.3	2924.8	3037.8	3239.0	3392.7	3306.8	3107.9	3006.2	2979.0	2969.9
65°	3180.2	3186.9	3229.9	3370.0	3636.8	3819.9	3672.9	3485.3	3343.0	3286.4	3277.3
67.5°	3602.8	3607.4	3641.3	3776.8	4027.8	4174.8	4023.2	3856.0	3702.4	3636.8	3632.2
70°	3982.5	3987.0	4016.5	4195.1	4425.6	4477.5	4310.2	4097.9	3937.5	3885.3	3876.4
72.5°	3896.7	3912.5	4009.7	4287.7	4642.6	4710.4	4357.8	4039.0	3781.4	3695.4	3668.4
75°	3268.4	3293.1	3446.8	3865.0	4430.1	4622.1	4077.4	3492.2	3107.9	2942.8	2899.9
77.5°	1907.6	2000.3	2264.7	2800.5	3607.4	3998.4	3358.8	2556.3	1909.9	1638.7	1548.3
80°	522.2	571.9	764.0	1288.3	2262.6	2800.5	2142.7	1173.0	632.9	474.7	440.8
82.5°	165.0	219.2	278.0	370.7	888.2	1475.9	795.5	345.8	271.2	223.8	199.0
85°	88.2	95.0	155.9	180.7	266.6	413.6	246.3	180.7	162.8	119.8	112.9
87.5°	45.3	47.5	88.2	88.2	117.6	97.1	106.2	97.1	92.6	58.7	52.0
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)