

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: P236723

Luminaire Tested: **ARCH-L-AF72-100-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236723
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-L-AF72-100-D-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14849.2 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

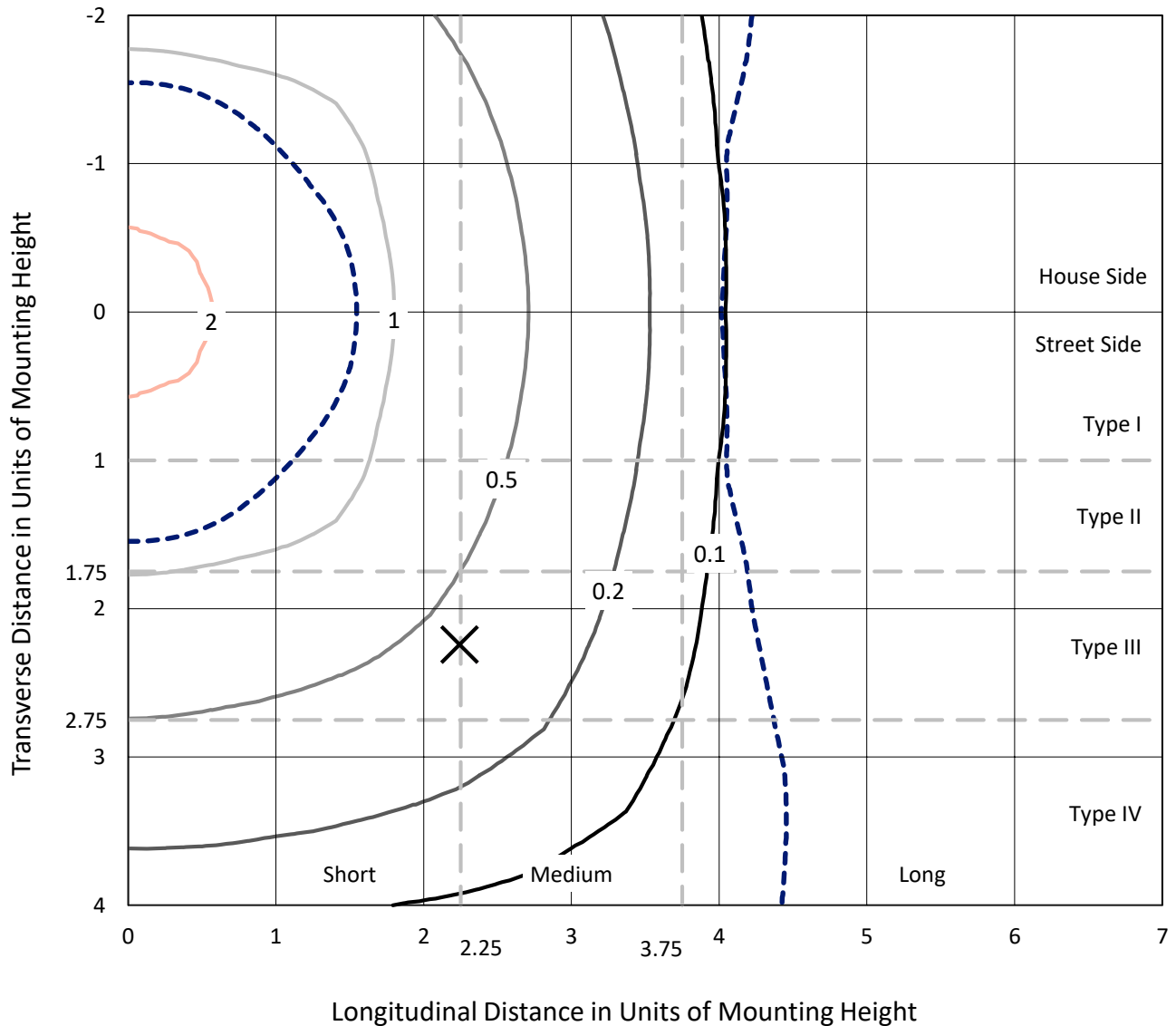
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

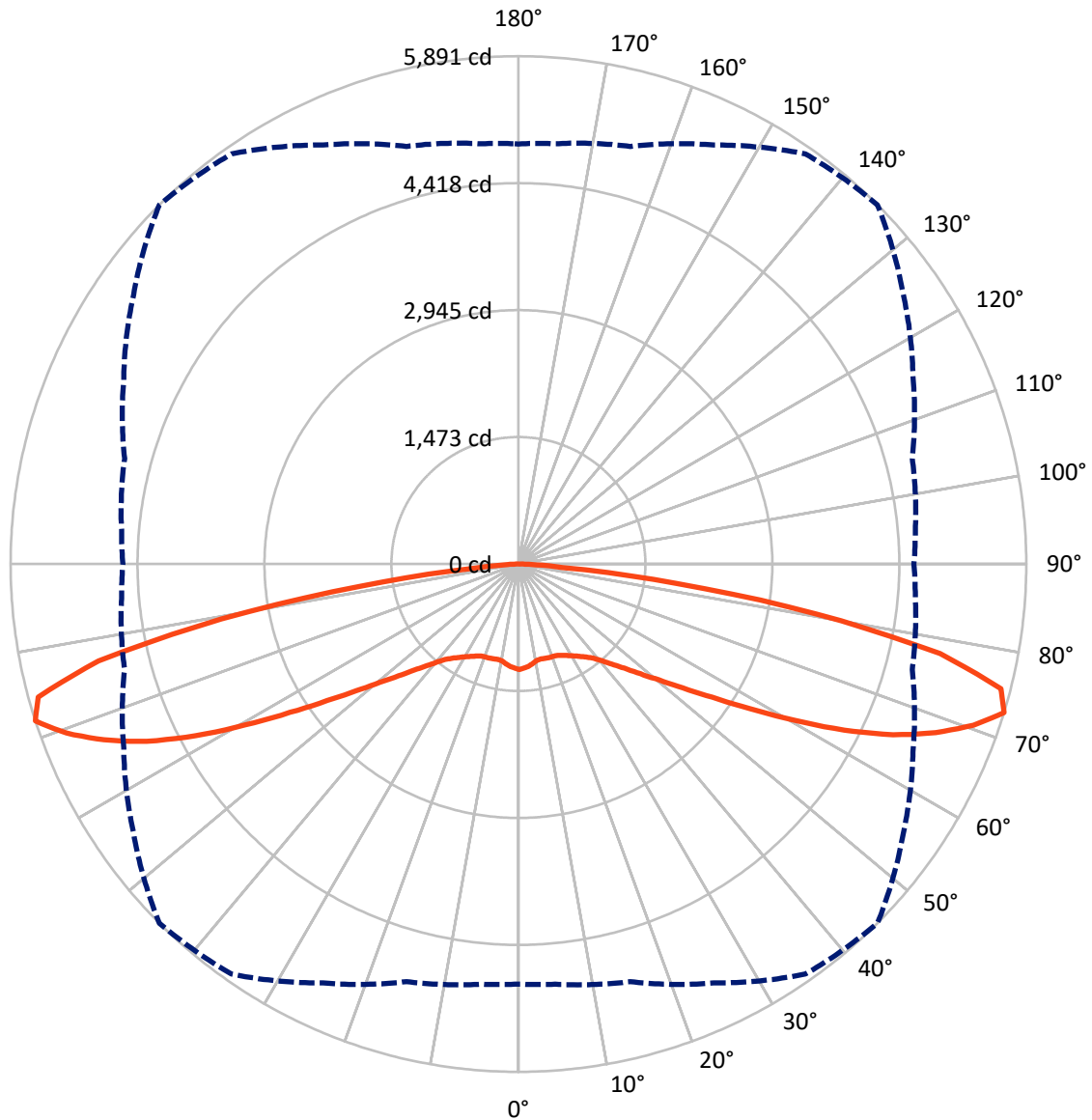
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 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	7424.6	0.0	7424.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7424.6	0.0	7424.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	14849.2	0.0	14849.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	0.8
10°-20°	324.9	2.2
20°-30°	543.8	3.7
30°-40°	835.5	5.6
40°-50°	1383.3	9.3
50°-60°	2459.3	16.6
60°-70°	4302.5	29.0
70°-80°	4377.5	29.5
80°-90°	509.7	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°	14849.2	100.0
0°-180°	14849.2	100.0



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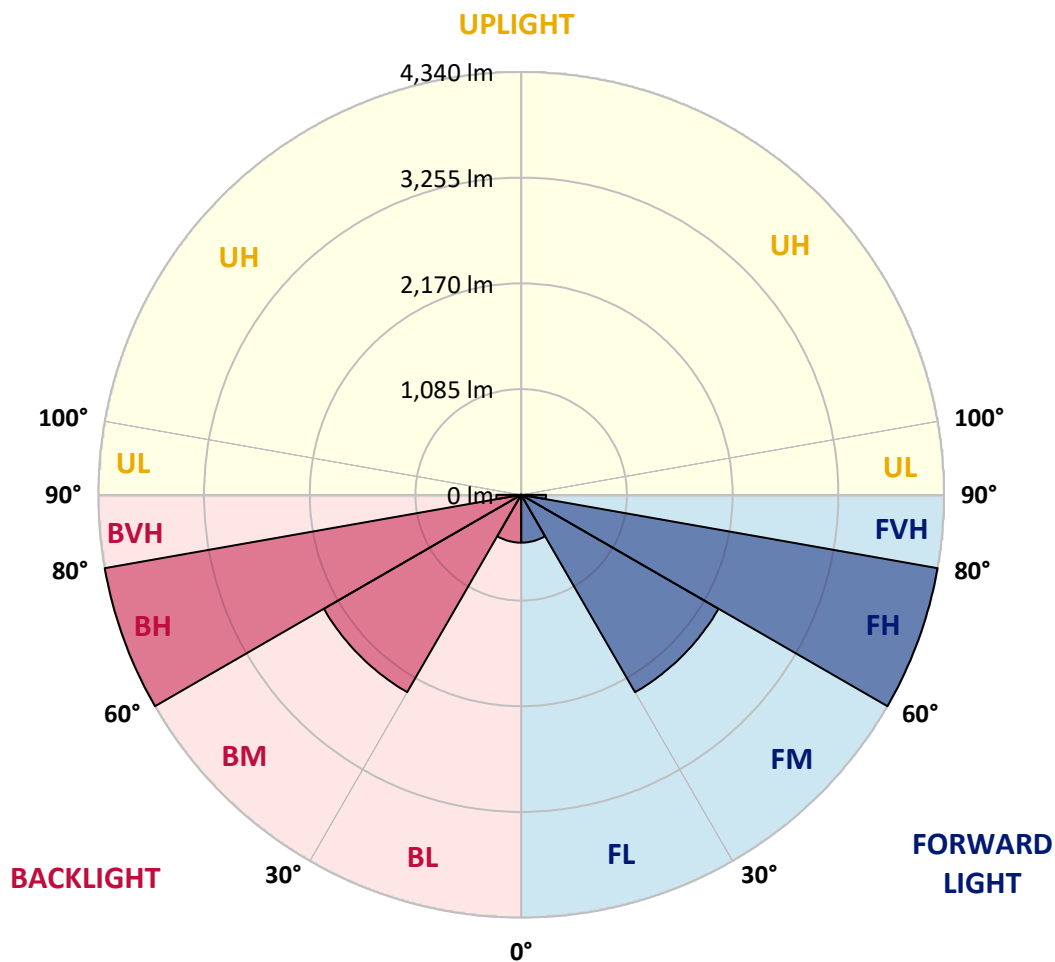
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	490.7	3.3			
FM	(30°-60°)	2339.1	15.8			
FH	(60°-80°)	4340.0	29.2			G2/5000
FVH	(80°-90°)	254.9	1.7			G3/500
BL	(0°-30°)	490.7	3.3	B1/500		
BM	(30°-60°)	2339.1	15.8	B2/2500		
BH	(60°-80°)	4340.0	29.2	B4/5000		G2/5000
BVH	(80°-90°)	254.9	1.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0
2.5°	1212.6	1215.5	1209.7	1209.7	1209.7	1207.0	1209.7	1207.0	1209.7	1212.6	1212.6
5°	1201.4	1201.4	1195.6	1195.6	1195.6	1192.9	1195.6	1195.6	1198.5	1201.4	1201.4
7.5°	1175.9	1175.9	1173.0	1170.3	1167.4	1167.4	1170.3	1170.3	1173.0	1175.9	1175.9
10°	1161.8	1158.9	1153.3	1144.8	1141.9	1139.2	1144.8	1150.4	1158.9	1167.4	1164.5
12.5°	1156.0	1153.3	1141.9	1133.4	1127.8	1130.7	1136.3	1141.9	1156.0	1164.5	1161.8
15°	1161.8	1156.0	1141.9	1127.8	1130.7	1136.3	1141.9	1141.9	1158.9	1167.4	1167.4
17.5°	1161.8	1158.9	1141.9	1130.7	1133.4	1141.9	1144.8	1141.9	1156.0	1170.3	1170.3
20°	1164.5	1164.5	1141.9	1133.4	1136.3	1144.8	1147.5	1144.8	1156.0	1173.0	1173.0
22.5°	1170.3	1167.4	1144.8	1139.2	1144.8	1150.4	1153.3	1150.4	1161.8	1175.9	1178.6
25°	1181.5	1175.9	1156.0	1153.3	1164.5	1173.0	1173.0	1167.4	1173.0	1187.1	1187.1
27.5°	1195.6	1192.9	1170.3	1170.3	1184.4	1201.4	1192.9	1181.5	1187.1	1201.4	1201.4
30°	1221.1	1218.2	1195.6	1195.6	1215.5	1235.2	1215.5	1201.4	1209.7	1224.0	1226.7
32.5°	1257.8	1257.8	1238.1	1232.3	1266.3	1274.8	1266.3	1238.1	1243.7	1263.4	1263.4
35°	1320.0	1314.4	1294.5	1291.8	1325.6	1322.9	1320.0	1294.5	1300.3	1322.9	1322.9
37.5°	1402.0	1399.2	1382.2	1373.7	1390.7	1379.3	1385.1	1373.7	1387.8	1404.8	1407.7
40°	1506.6	1503.7	1489.6	1478.3	1484.0	1467.0	1472.6	1478.3	1492.5	1503.7	1506.6
42.5°	1636.6	1636.6	1622.5	1602.7	1594.2	1585.7	1585.7	1597.0	1611.1	1625.3	1625.3
45°	1797.7	1797.7	1780.8	1761.0	1735.5	1721.4	1727.0	1738.4	1755.3	1772.3	1777.9
47.5°	1987.1	1987.1	1964.5	1944.7	1919.3	1902.3	1902.3	1907.9	1933.4	1947.5	1956.0
50°	2199.1	2190.6	2168.0	2148.2	2134.1	2111.5	2114.3	2111.5	2134.1	2153.8	2159.6
52.5°	2419.6	2416.7	2394.1	2388.5	2397.0	2385.6	2385.6	2357.4	2365.9	2377.1	2374.4
55°	2693.7	2685.2	2665.5	2676.8	2710.7	2727.7	2722.0	2676.8	2651.4	2657.0	2654.1
57.5°	2993.4	2984.9	2979.2	3013.1	3089.5	3160.1	3146.0	3041.4	2993.4	2996.2	2999.0
60°	3298.6	3298.6	3315.6	3400.4	3564.4	3680.3	3637.8	3462.6	3377.8	3360.8	3355.2
62.5°	3612.3	3620.8	3657.7	3798.9	4050.5	4242.7	4135.3	3886.6	3759.3	3725.5	3714.1
65°	3977.0	3985.5	4039.2	4214.5	4548.0	4777.0	4593.3	4358.6	4180.5	4109.9	4098.6
67.5°	4505.6	4511.2	4553.7	4723.3	5037.0	5220.7	5031.4	4822.2	4630.0	4548.0	4542.3
70°	4980.4	4986.1	5022.9	5246.2	5534.5	5599.5	5390.3	5124.6	4924.0	4858.9	4847.6
72.5°	4873.0	4892.9	5014.4	5362.0	5805.9	5890.7	5449.7	5051.1	4728.9	4621.5	4587.5
75°	4087.3	4118.3	4310.5	4833.4	5540.1	5780.4	5099.2	4367.1	3886.6	3680.3	3626.6
77.5°	2385.6	2501.5	2832.2	3502.2	4511.2	5000.3	4200.3	3196.9	2388.5	2049.3	1936.2
80°	652.9	715.1	955.4	1611.1	2829.4	3502.2	2679.6	1467.0	791.5	593.6	551.2
82.5°	206.3	274.2	347.7	463.6	1110.8	1845.8	994.9	432.5	339.2	279.9	248.8
85°	110.3	118.8	195.1	226.2	333.6	517.3	308.1	226.2	203.5	149.8	141.4
87.5°	56.6	59.3	110.3	110.3	147.0	121.5	132.9	121.5	115.9	73.4	65.1
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)