

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: P265625

Luminaire Tested: **ARCH-L-AF72-150-D-U-5WQ-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P265625  
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-AF72-150-D-U-5WQ-7027  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17950.4 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

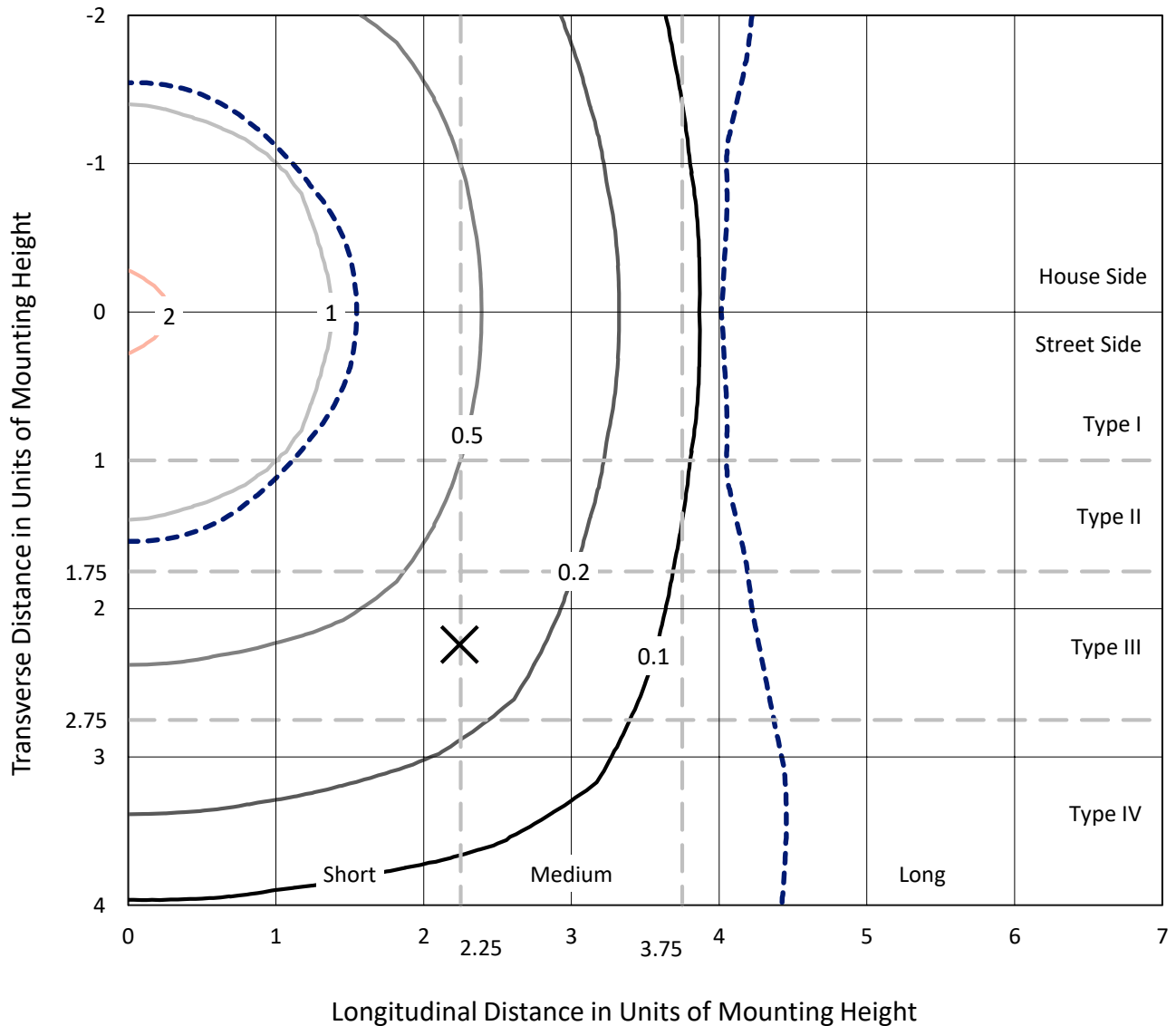


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

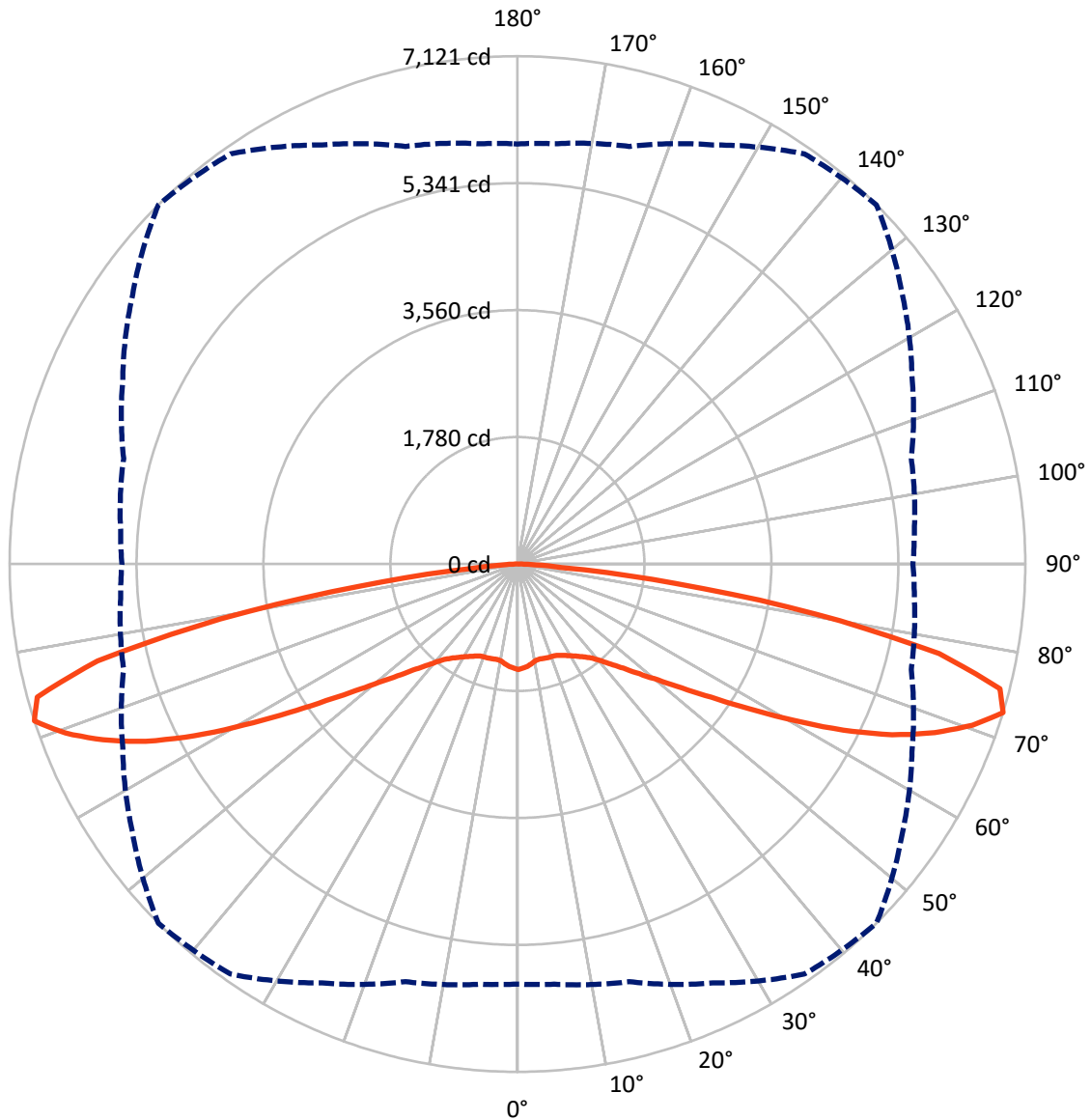


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	8975.2	0.0	8975.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8975.2	0.0	8975.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17950.4	0.0	17950.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.1	0.8
10°-20°	392.8	2.2
20°-30°	657.3	3.7
30°-40°	1010.0	5.6
40°-50°	1672.3	9.3
50°-60°	2973.0	16.6
60°-70°	5201.1	29.0
70°-80°	5291.7	29.5
80°-90°	616.2	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°	17950.4	100.0
0°-180°	17950.4	100.0

**Coefficient of Utilization**



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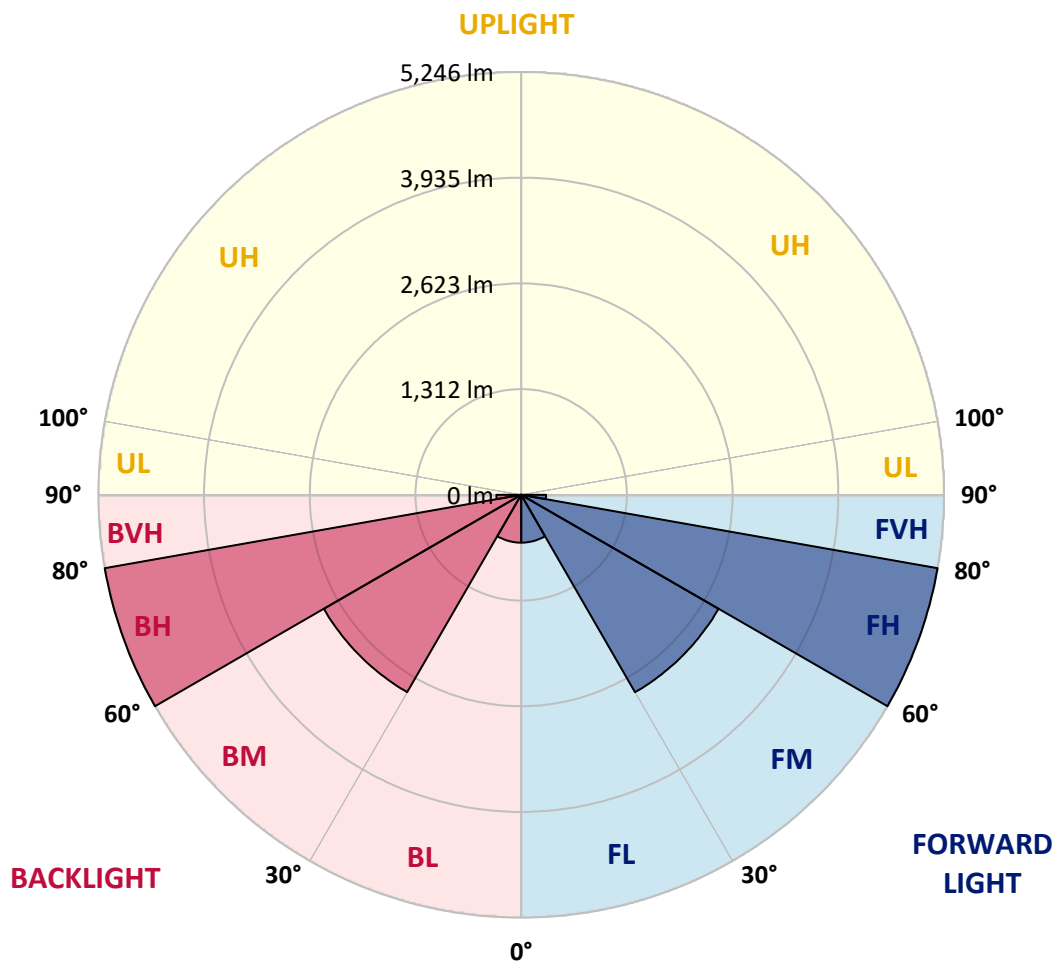
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.1	3.3			
FM	(30°-60°)	2827.6	15.8			
FH	(60°-80°)	5246.4	29.2			G3/7500
FVH	(80°-90°)	308.1	1.7			G3/500
BL	(0°-30°)	593.1	3.3	B2/1000		
BM	(30°-60°)	2827.6	15.8	B3/5000		
BH	(60°-80°)	5246.4	29.2	B5		G3/7500
BVH	(80°-90°)	308.1	1.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5
2.5°	1465.9	1469.3	1462.4	1462.4	1462.4	1459.0	1462.4	1459.0	1462.4	1465.9	1465.9
5°	1452.2	1452.2	1445.4	1445.4	1445.4	1441.9	1445.4	1445.4	1448.7	1452.2	1452.2
7.5°	1421.5	1421.5	1418.1	1414.7	1411.1	1411.1	1414.7	1414.7	1418.1	1421.5	1421.5
10°	1404.3	1400.9	1394.1	1383.8	1380.4	1377.0	1383.8	1390.7	1400.9	1411.1	1407.7
12.5°	1397.6	1394.1	1380.4	1370.2	1363.4	1366.9	1373.6	1380.4	1397.6	1407.7	1404.3
15°	1404.3	1397.6	1380.4	1363.4	1366.9	1373.6	1380.4	1380.4	1400.9	1411.1	1411.1
17.5°	1404.3	1400.9	1380.4	1366.9	1370.2	1380.4	1383.8	1380.4	1397.6	1414.7	1414.7
20°	1407.7	1407.7	1380.4	1370.2	1373.6	1383.8	1387.3	1383.8	1397.6	1418.1	1418.1
22.5°	1414.7	1411.1	1383.8	1377.0	1383.8	1390.7	1394.1	1390.7	1404.3	1421.5	1424.8
25°	1428.2	1421.5	1397.6	1394.1	1407.7	1418.1	1418.1	1411.1	1418.1	1435.1	1435.1
27.5°	1445.4	1441.9	1414.7	1414.7	1431.7	1452.2	1441.9	1428.2	1435.1	1452.2	1452.2
30°	1476.2	1472.7	1445.4	1445.4	1469.3	1493.3	1469.3	1452.2	1462.4	1479.5	1482.9
32.5°	1520.6	1520.6	1496.5	1489.7	1530.8	1541.0	1530.8	1496.5	1503.5	1527.4	1527.4
35°	1595.7	1588.8	1564.9	1561.6	1602.5	1599.2	1595.7	1564.9	1571.8	1599.2	1599.2
37.5°	1694.8	1691.4	1670.8	1660.6	1681.1	1667.4	1674.4	1660.6	1677.8	1698.2	1701.6
40°	1821.3	1817.8	1800.7	1787.1	1793.8	1773.3	1780.3	1787.1	1804.2	1817.8	1821.3
42.5°	1978.3	1978.3	1961.3	1937.4	1927.1	1917.0	1917.0	1930.5	1947.6	1964.8	1964.8
45°	2173.2	2173.2	2152.7	2128.8	2098.0	2081.0	2087.8	2101.4	2121.8	2142.4	2149.3
47.5°	2402.1	2402.1	2374.8	2350.9	2320.1	2299.7	2299.7	2306.4	2337.2	2354.3	2364.5
50°	2658.4	2648.2	2620.7	2596.9	2579.8	2552.4	2555.9	2552.4	2579.8	2603.6	2610.6
52.5°	2924.9	2921.5	2894.1	2887.3	2897.6	2883.9	2883.9	2849.8	2859.9	2873.6	2870.3
55°	3256.4	3246.0	3222.1	3235.9	3276.7	3297.3	3290.5	3235.9	3205.1	3211.9	3208.4
57.5°	3618.6	3608.2	3601.5	3642.4	3734.8	3820.1	3803.1	3676.7	3618.6	3622.0	3625.3
60°	3987.5	3987.5	4008.1	4110.6	4308.7	4448.9	4397.6	4185.7	4083.2	4062.8	4055.8
62.5°	4366.8	4377.1	4421.5	4592.3	4896.4	5128.9	4999.0	4698.2	4544.4	4503.6	4489.8
65°	4807.5	4817.8	4882.7	5094.6	5497.7	5774.6	5552.5	5268.9	5053.7	4968.2	4954.5
67.5°	5446.6	5453.4	5504.6	5709.6	6088.9	6311.0	6082.2	5829.2	5596.9	5497.7	5491.0
70°	6020.6	6027.4	6071.9	6341.8	6690.2	6768.9	6516.0	6194.8	5952.3	5873.7	5860.1
72.5°	5890.7	5914.7	6061.7	6481.9	7018.4	7120.9	6587.8	6106.0	5716.5	5586.6	5545.6
75°	4940.9	4978.4	5210.8	5842.9	6697.1	6987.6	6164.1	5279.1	4698.2	4448.9	4383.9
77.5°	2883.9	3024.0	3423.7	4233.5	5453.4	6044.5	5077.5	3864.5	2887.3	2477.3	2340.5
80°	789.3	864.4	1155.0	1947.6	3420.3	4233.5	3239.3	1773.3	956.8	717.6	666.4
82.5°	249.4	331.5	420.2	560.4	1342.8	2231.2	1202.7	522.9	410.0	338.3	300.8
85°	133.3	143.5	235.7	273.4	403.2	625.3	372.4	273.4	246.0	181.1	170.9
87.5°	68.4	71.8	133.3	133.3	177.7	147.0	160.5	147.0	140.0	88.8	78.6
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)