

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: P265634

Luminaire Tested: **ARCH-L-AF72-160-D-U-5WQ-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P265634  
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-AF72-160-D-U-5WQ-7027  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18788.5 lumens  
Efficiency: N/A  
Efficacy: 116.0 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): 162  
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

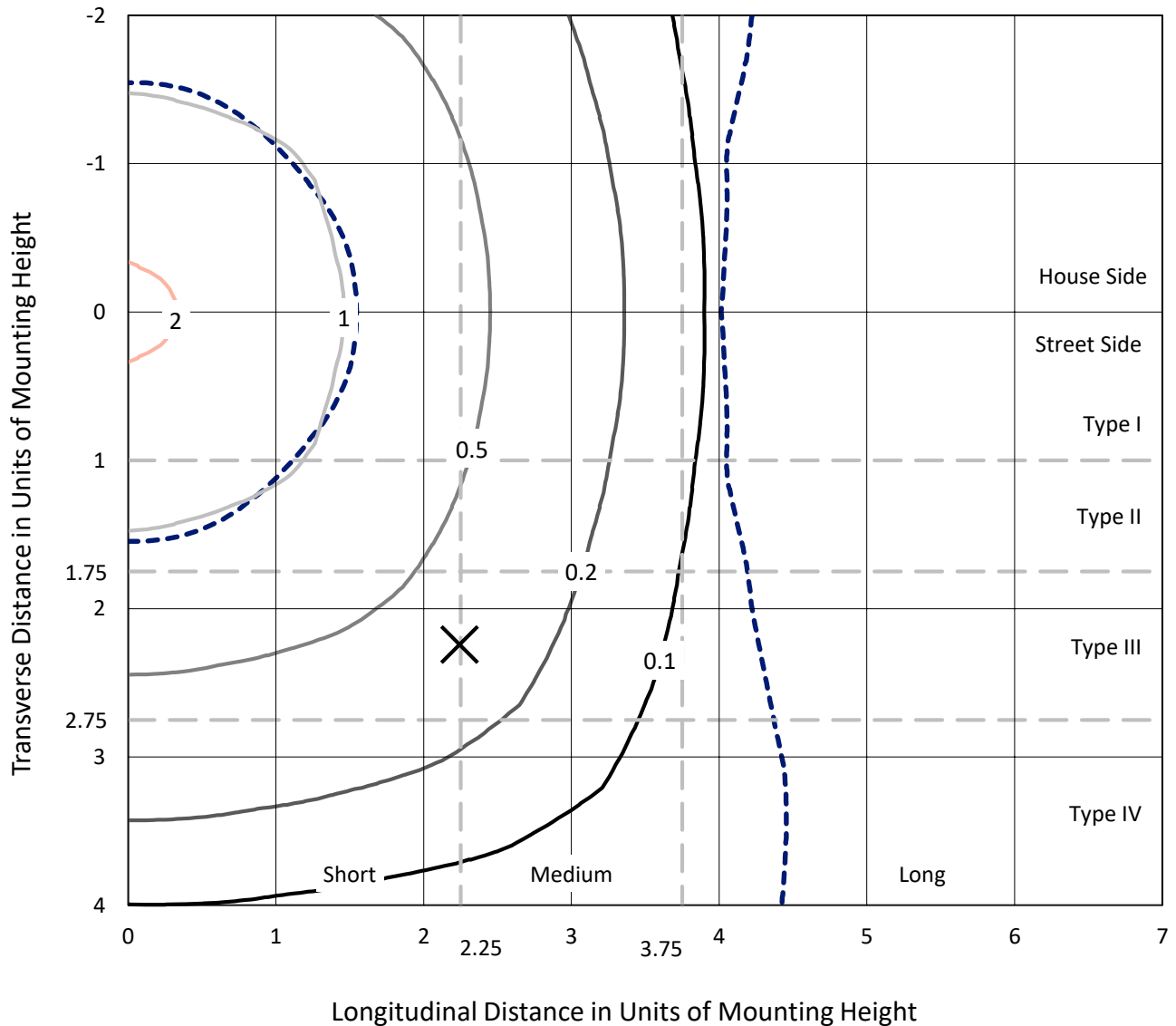


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

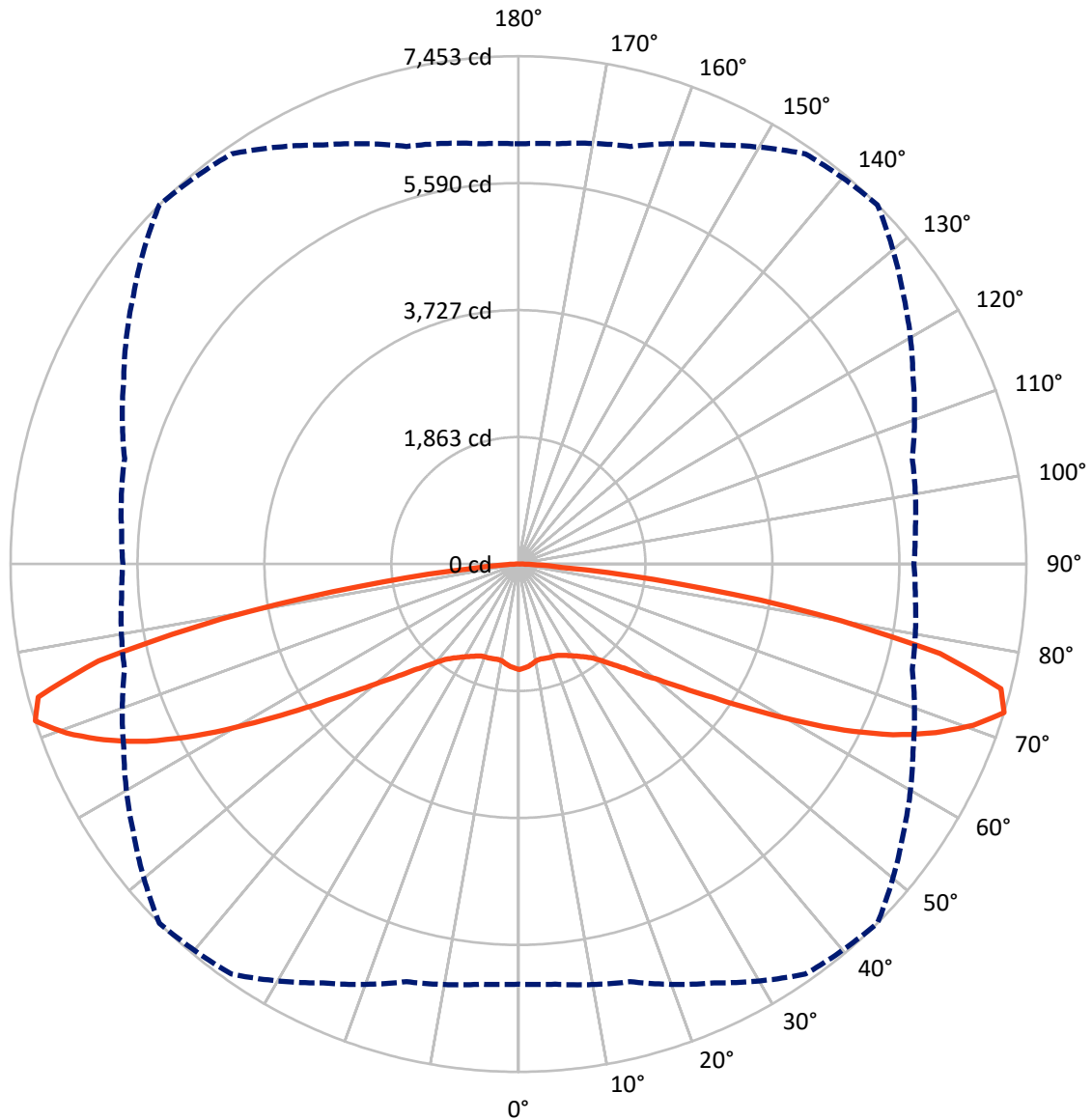


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - Non-Cutoff

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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	9394.2	0.0	9394.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9394.2	0.0	9394.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18788.5	0.0	18788.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.5	0.8
10°-20°	411.1	2.2
20°-30°	688.0	3.7
30°-40°	1057.1	5.6
40°-50°	1750.3	9.3
50°-60°	3111.7	16.6
60°-70°	5443.9	29.0
70°-80°	5538.8	29.5
80°-90°	645.0	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°	18788.5	100.0
0°-180°	18788.5	100.0

**Coefficient of Utilization**



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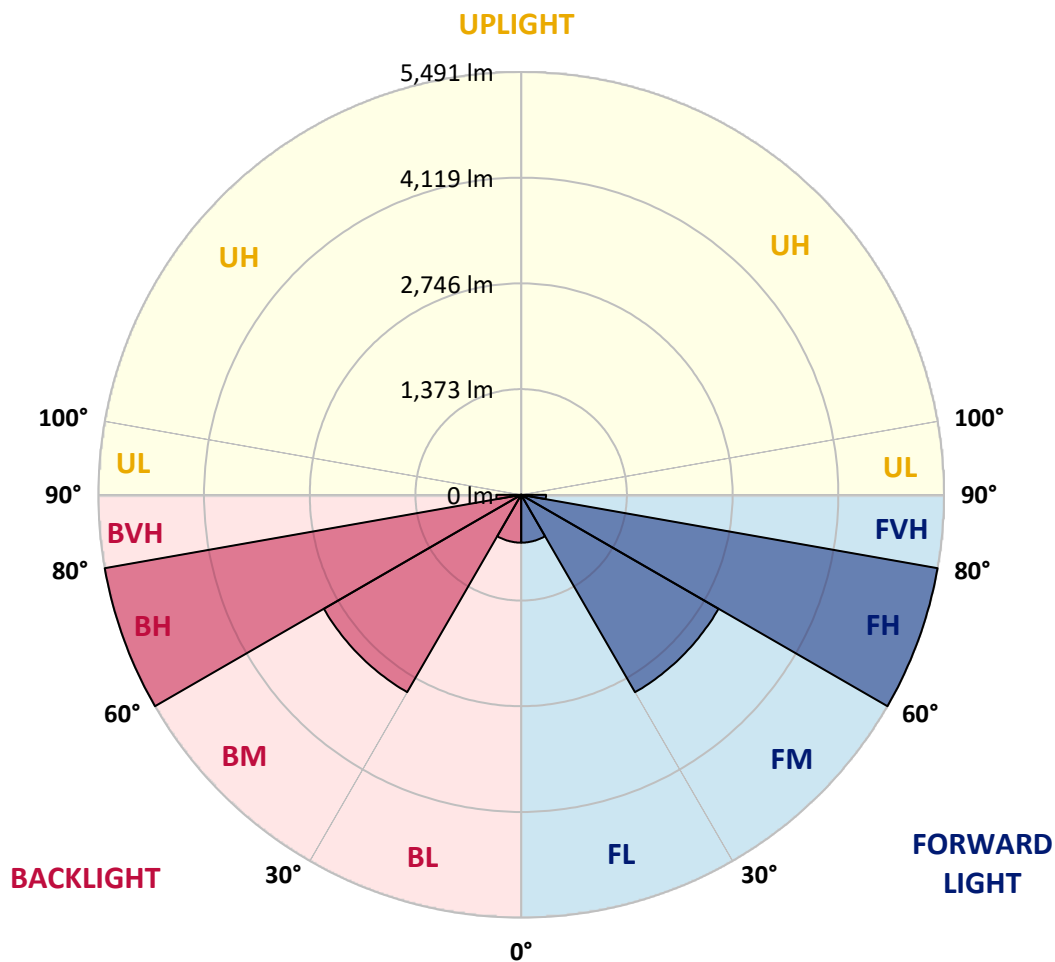
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	620.8	3.3			
FM	(30°-60°)	2959.6	15.8			
FH	(60°-80°)	5491.3	29.2			G3/7500
FVH	(80°-90°)	322.5	1.7			G3/500
BL	(0°-30°)	620.8	3.3	B2/1000		
BM	(30°-60°)	2959.6	15.8	B3/5000		
BH	(60°-80°)	5491.3	29.2	B5		G3/7500
BVH	(80°-90°)	322.5	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°	1548.6	1548.6	1548.6	1548.6	1548.6	1548.6	1548.6	1548.6	1548.6	1548.6	1548.6
2.5°	1534.3	1537.9	1530.7	1530.7	1530.7	1527.2	1530.7	1527.2	1530.7	1534.3	1534.3
5°	1520.0	1520.0	1512.8	1512.8	1512.8	1509.2	1512.8	1512.8	1516.3	1520.0	1520.0
7.5°	1487.9	1487.9	1484.2	1480.6	1477.1	1477.1	1480.6	1480.6	1484.2	1487.9	1487.9
10°	1469.9	1466.4	1459.1	1448.4	1445.0	1441.3	1448.4	1455.7	1466.4	1477.1	1473.5
12.5°	1462.8	1459.1	1445.0	1434.1	1427.0	1430.6	1437.7	1445.0	1462.8	1473.5	1469.9
15°	1469.9	1462.8	1445.0	1427.0	1430.6	1437.7	1445.0	1445.0	1466.4	1477.1	1477.1
17.5°	1469.9	1466.4	1445.0	1430.6	1434.1	1445.0	1448.4	1445.0	1462.8	1480.6	1480.6
20°	1473.5	1473.5	1445.0	1434.1	1437.7	1448.4	1452.0	1448.4	1462.8	1484.2	1484.2
22.5°	1480.6	1477.1	1448.4	1441.3	1448.4	1455.7	1459.1	1455.7	1469.9	1487.9	1491.4
25°	1495.0	1487.9	1462.8	1459.1	1473.5	1484.2	1484.2	1477.1	1484.2	1502.1	1502.1
27.5°	1512.8	1509.2	1480.6	1480.6	1498.6	1520.0	1509.2	1495.0	1502.1	1520.0	1520.0
30°	1545.1	1541.4	1512.8	1512.8	1537.9	1563.0	1537.9	1520.0	1530.7	1548.6	1552.2
32.5°	1591.5	1591.5	1566.5	1559.4	1602.2	1612.9	1602.2	1566.5	1573.7	1598.7	1598.7
35°	1670.2	1663.0	1638.0	1634.5	1677.3	1673.8	1670.2	1638.0	1645.2	1673.8	1673.8
37.5°	1774.0	1770.4	1748.9	1738.2	1759.6	1745.2	1752.5	1738.2	1756.0	1777.4	1781.1
40°	1906.3	1902.7	1884.9	1870.5	1877.6	1856.2	1863.4	1870.5	1888.3	1902.7	1906.3
42.5°	2070.8	2070.8	2052.8	2027.8	2017.1	2006.5	2006.5	2020.6	2038.6	2056.5	2056.5
45°	2274.6	2274.6	2253.2	2228.2	2195.9	2178.1	2185.2	2199.5	2221.0	2242.4	2249.5
47.5°	2514.3	2514.3	2485.6	2460.5	2428.4	2407.0	2407.0	2414.1	2446.4	2464.2	2474.9
50°	2782.5	2771.8	2743.2	2718.1	2700.2	2671.6	2675.2	2671.6	2700.2	2725.3	2732.5
52.5°	3061.5	3057.9	3029.3	3022.1	3032.9	3018.6	3018.6	2982.7	2993.5	3007.9	3004.2
55°	3408.3	3397.6	3372.5	3386.9	3429.8	3451.3	3444.1	3386.9	3354.7	3361.8	3358.4
57.5°	3787.4	3776.7	3769.6	3812.4	3909.1	3998.4	3980.6	3848.2	3787.4	3791.0	3794.6
60°	4173.7	4173.7	4195.2	4302.5	4509.9	4656.5	4602.9	4381.2	4273.9	4252.4	4245.3
62.5°	4570.8	4581.4	4628.0	4806.8	5125.1	5368.4	5232.4	4917.6	4756.6	4713.8	4699.5
65°	5032.0	5042.8	5110.7	5332.5	5754.5	6044.2	5811.8	5515.0	5289.6	5200.2	5185.8
67.5°	5700.9	5708.0	5761.6	5976.2	6373.2	6605.7	6366.1	6101.5	5858.2	5754.5	5747.4
70°	6301.7	6308.8	6355.4	6637.9	7002.6	7085.0	6820.3	6484.1	6230.3	6147.9	6133.6
72.5°	6165.8	6190.8	6344.6	6784.5	7346.1	7453.3	6895.4	6391.1	5983.4	5847.4	5804.6
75°	5171.5	5210.9	5454.1	6115.8	7009.8	7313.9	6451.9	5525.7	4917.6	4656.5	4588.6
77.5°	3018.6	3165.2	3583.6	4431.2	5708.0	6326.8	5314.6	4045.0	3022.1	2593.0	2449.9
80°	826.3	904.9	1208.8	2038.6	3580.0	4431.2	3390.6	1856.2	1001.4	751.1	697.4
82.5°	261.0	346.9	439.9	586.6	1405.6	2335.5	1259.0	547.2	429.2	354.1	314.8
85°	139.4	150.1	246.8	286.1	422.1	654.4	389.9	286.1	257.5	189.5	178.9
87.5°	71.5	75.1	139.4	139.4	185.9	153.8	168.2	153.8	146.7	93.0	82.3
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)