

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: P265661

Luminaire Tested: **ARCH-L-AF72-190-D-U-5WQ-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P265661  
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-AF72-190-D-U-5WQ-7027  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20863.4 lumens  
Efficiency: N/A  
Efficacy: 110.4 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): 189  
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

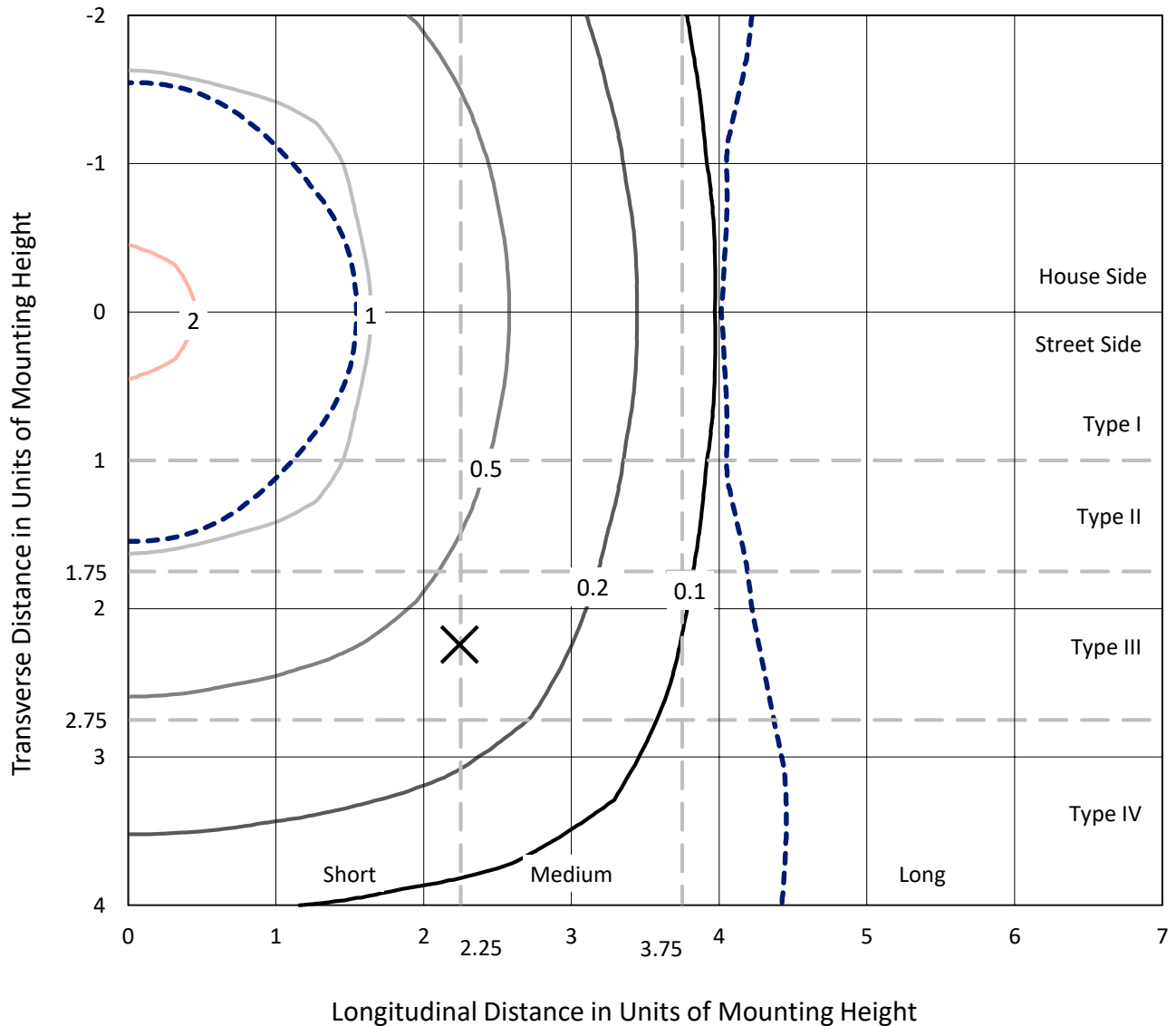


REPORT NUMBER: P265661

CATALOG NUMBER: ARCH-L-AF72-190-D-U-5WQ-7027

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

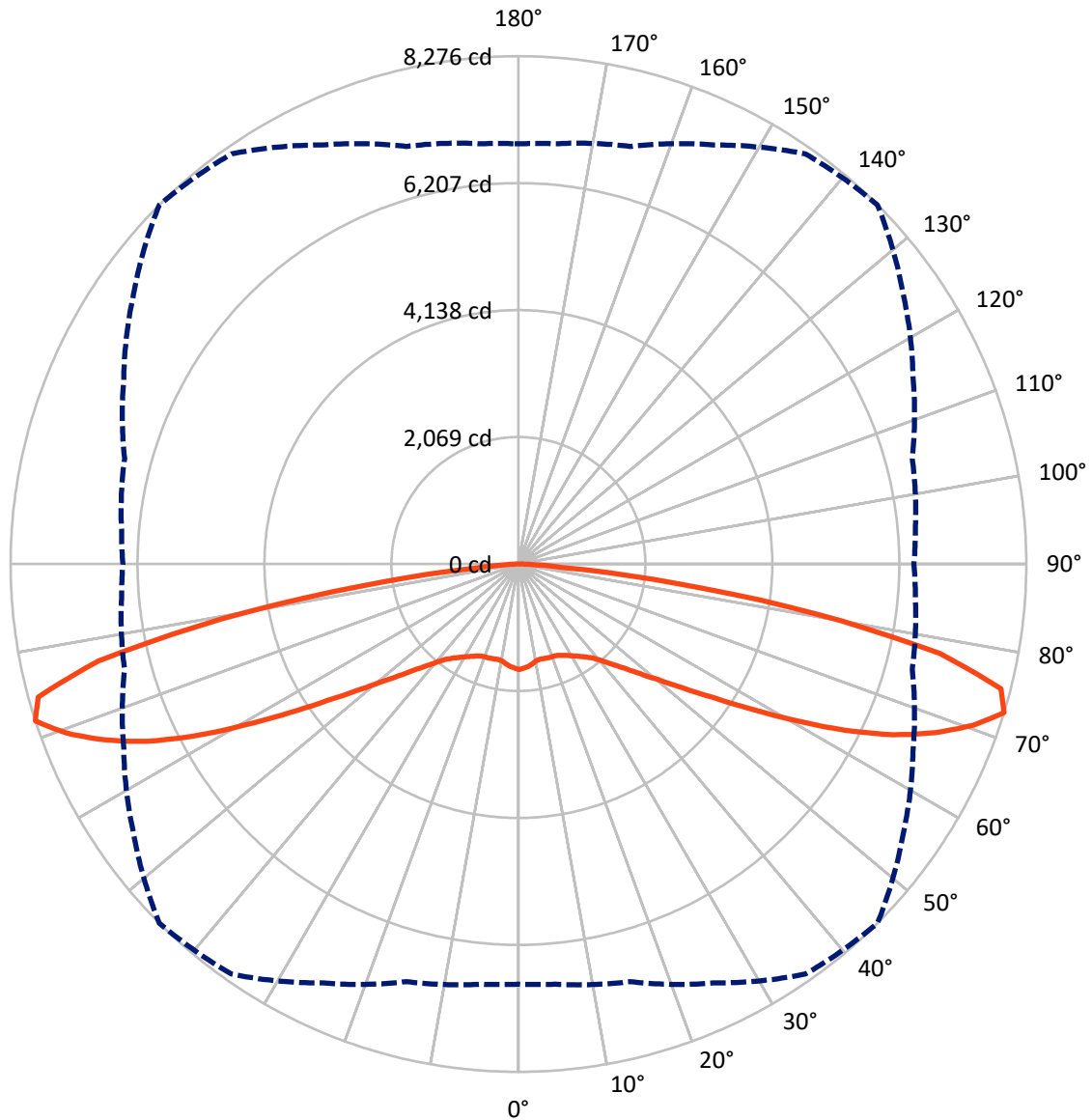


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P265661

CATALOG NUMBER: ARCH-L-AF72-190-D-U-5WQ-7027

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P265661

CATALOG NUMBER: ARCH-L-AF72-190-D-U-5WQ-7027

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10431.7	0.0	10431.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10431.7	0.0	10431.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20863.4	0.0	20863.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.2	0.8
10°-20°	456.5	2.2
20°-30°	764.0	3.7
30°-40°	1173.9	5.6
40°-50°	1943.6	9.3
50°-60°	3455.4	16.6
60°-70°	6045.1	29.0
70°-80°	6150.4	29.5
80°-90°	716.2	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°	20863.4	100.0
0°-180°	20863.4	100.0



REPORT NUMBER: P265661

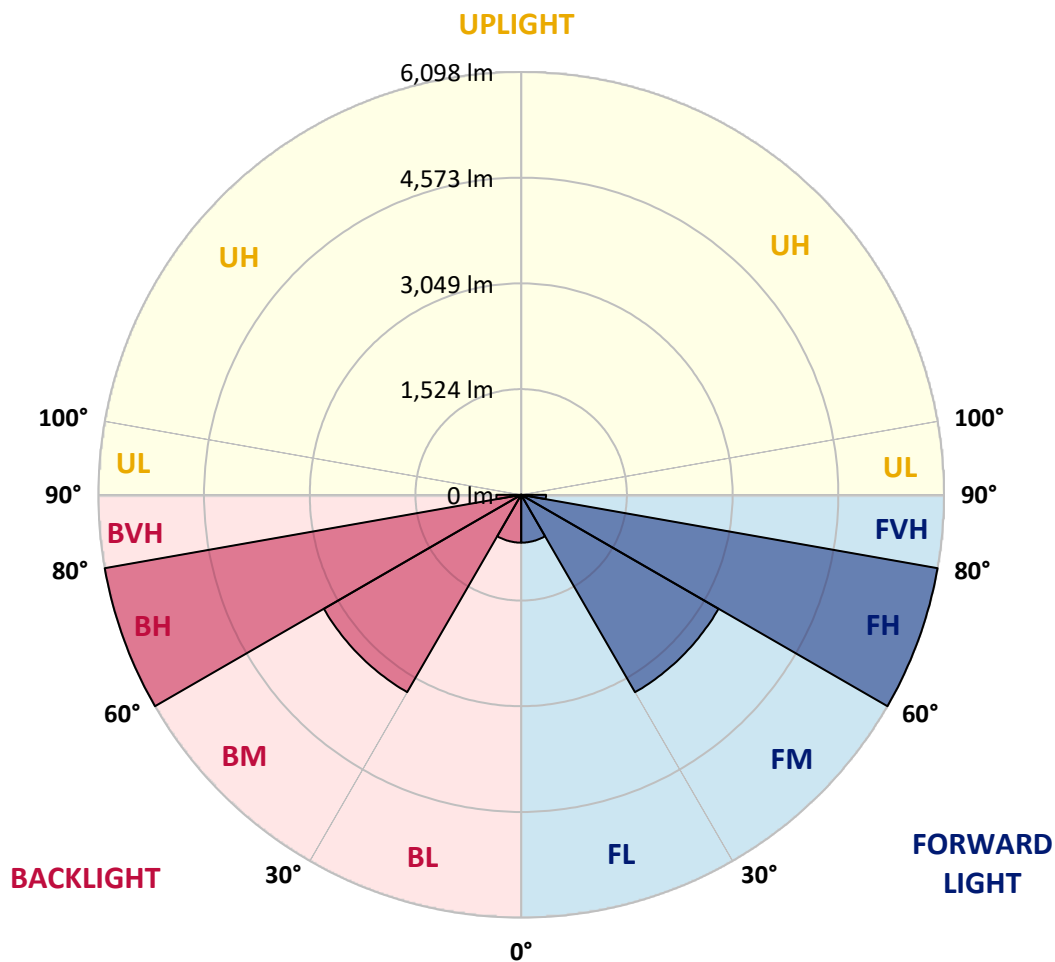
CATALOG NUMBER: ARCH-L-AF72-190-D-U-5WQ-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	689.4	3.3			
FM	(30°-60°)	3286.4	15.8			
FH	(60°-80°)	6097.8	29.2			G3/7500
FVH	(80°-90°)	358.1	1.7			G3/500
BL	(0°-30°)	689.4	3.3	B2/1000		
BM	(30°-60°)	3286.4	15.8	B3/5000		
BH	(60°-80°)	6097.8	29.2	B5		G3/7500
BVH	(80°-90°)	358.1	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





REPORT NUMBER: P265661

CATALOG NUMBER: ARCH-L-AF72-190-D-U-5WQ-7027

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6
2.5°	1703.7	1707.7	1699.8	1699.8	1699.8	1695.8	1699.8	1695.8	1699.8	1703.7	1703.7
5°	1687.8	1687.8	1679.9	1679.9	1679.9	1676.0	1679.9	1679.9	1684.0	1687.8	1687.8
7.5°	1652.2	1652.2	1648.1	1644.2	1640.1	1640.1	1644.2	1644.2	1648.1	1652.2	1652.2
10°	1632.3	1628.3	1620.4	1608.4	1604.5	1600.5	1608.4	1616.4	1628.3	1640.1	1636.3
12.5°	1624.3	1620.4	1604.5	1592.5	1584.6	1588.6	1596.5	1604.5	1624.3	1636.3	1632.3
15°	1632.3	1624.3	1604.5	1584.6	1588.6	1596.5	1604.5	1604.5	1628.3	1640.1	1640.1
17.5°	1632.3	1628.3	1604.5	1588.6	1592.5	1604.5	1608.4	1604.5	1624.3	1644.2	1644.2
20°	1636.3	1636.3	1604.5	1592.5	1596.5	1608.4	1612.4	1608.4	1624.3	1648.1	1648.1
22.5°	1644.2	1640.1	1608.4	1600.5	1608.4	1616.4	1620.4	1616.4	1632.3	1652.2	1656.0
25°	1660.1	1652.2	1624.3	1620.4	1636.3	1648.1	1648.1	1640.1	1648.1	1668.1	1668.1
27.5°	1679.9	1676.0	1644.2	1644.2	1664.0	1687.8	1676.0	1660.1	1668.1	1687.8	1687.8
30°	1715.7	1711.7	1679.9	1679.9	1707.7	1735.5	1707.7	1687.8	1699.8	1719.6	1723.6
32.5°	1767.2	1767.2	1739.5	1731.6	1779.3	1791.1	1779.3	1739.5	1747.5	1775.2	1775.2
35°	1854.6	1846.7	1818.9	1814.9	1862.5	1858.7	1854.6	1818.9	1826.9	1858.7	1858.7
37.5°	1969.9	1965.9	1942.0	1930.1	1954.0	1938.1	1946.0	1930.1	1950.0	1973.8	1977.8
40°	2116.8	2112.9	2093.0	2077.1	2085.0	2061.3	2069.1	2077.1	2097.0	2112.9	2116.8
42.5°	2299.4	2299.4	2279.5	2251.8	2239.8	2227.9	2227.9	2243.8	2263.6	2283.6	2283.6
45°	2525.9	2525.9	2502.0	2474.2	2438.4	2418.5	2426.5	2442.4	2466.2	2490.1	2498.0
47.5°	2791.9	2791.9	2760.1	2732.4	2696.6	2672.7	2672.7	2680.7	2716.5	2736.2	2748.3
50°	3089.8	3077.9	3046.2	3018.2	2998.5	2966.7	2970.7	2966.7	2998.5	3026.2	3034.1
52.5°	3399.5	3395.6	3363.9	3355.9	3367.7	3351.8	3351.8	3312.2	3324.1	3340.0	3335.9
55°	3784.7	3772.8	3745.0	3760.9	3808.6	3832.3	3824.4	3760.9	3725.2	3733.1	3729.1
57.5°	4205.8	4193.7	4185.9	4233.5	4340.8	4440.1	4420.2	4273.2	4205.8	4209.6	4213.7
60°	4634.6	4634.6	4658.5	4777.6	5008.1	5170.9	5111.3	4865.0	4745.8	4722.0	4714.0
62.5°	5075.5	5087.5	5139.1	5337.5	5691.0	5961.2	5810.1	5460.6	5281.9	5234.3	5218.4
65°	5587.7	5599.8	5675.1	5921.4	6390.1	6711.6	6453.6	6123.9	5873.7	5774.5	5758.6
67.5°	6330.4	6338.4	6398.0	6636.3	7077.0	7335.2	7069.1	6775.2	6505.2	6390.1	6382.1
70°	6997.6	7005.6	7057.3	7371.0	7776.1	7867.4	7573.5	7200.2	6918.1	6826.8	6810.9
72.5°	6846.7	6874.5	7045.2	7533.7	8157.2	8276.4	7657.0	7096.9	6644.1	6493.3	6445.6
75°	5742.7	5786.3	6056.5	6791.1	7784.1	8121.5	7164.4	6135.9	5460.6	5170.9	5095.4
77.5°	3351.8	3514.7	3979.3	4920.6	6338.4	7025.5	5901.5	4491.6	3355.9	2879.2	2720.4
80°	917.3	1004.8	1342.3	2263.6	3975.4	4920.6	3764.8	2061.3	1112.0	833.9	774.3
82.5°	290.0	385.3	488.5	651.4	1560.7	2593.3	1397.9	607.7	476.6	393.2	349.5
85°	154.9	166.7	274.1	317.7	468.6	726.8	433.0	317.7	285.9	210.6	198.5
87.5°	79.4	83.5	154.9	154.9	206.5	170.8	186.7	170.8	162.9	103.2	91.4
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)