

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: P265598

Luminaire Tested: **ARCH-L-AF72-120-D-U-5WQ-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P265598  
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-AF72-120-D-U-5WQ-7027  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14858.7 lumens  
Efficiency: N/A  
Efficacy: 120.8 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): 123  
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

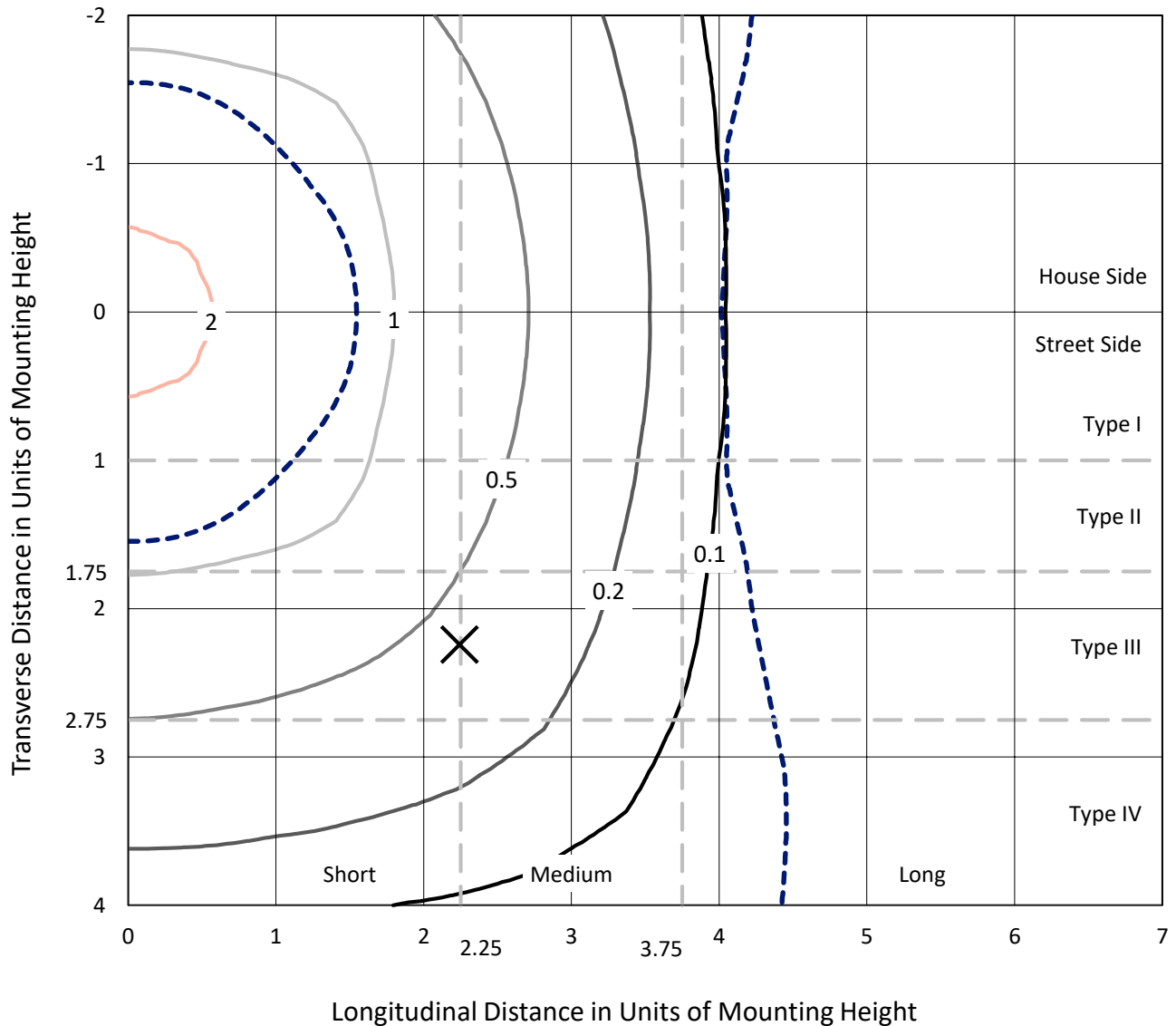


REPORT NUMBER: P265598

CATALOG NUMBER: ARCH-L-AF72-120-D-U-5WQ-7027

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

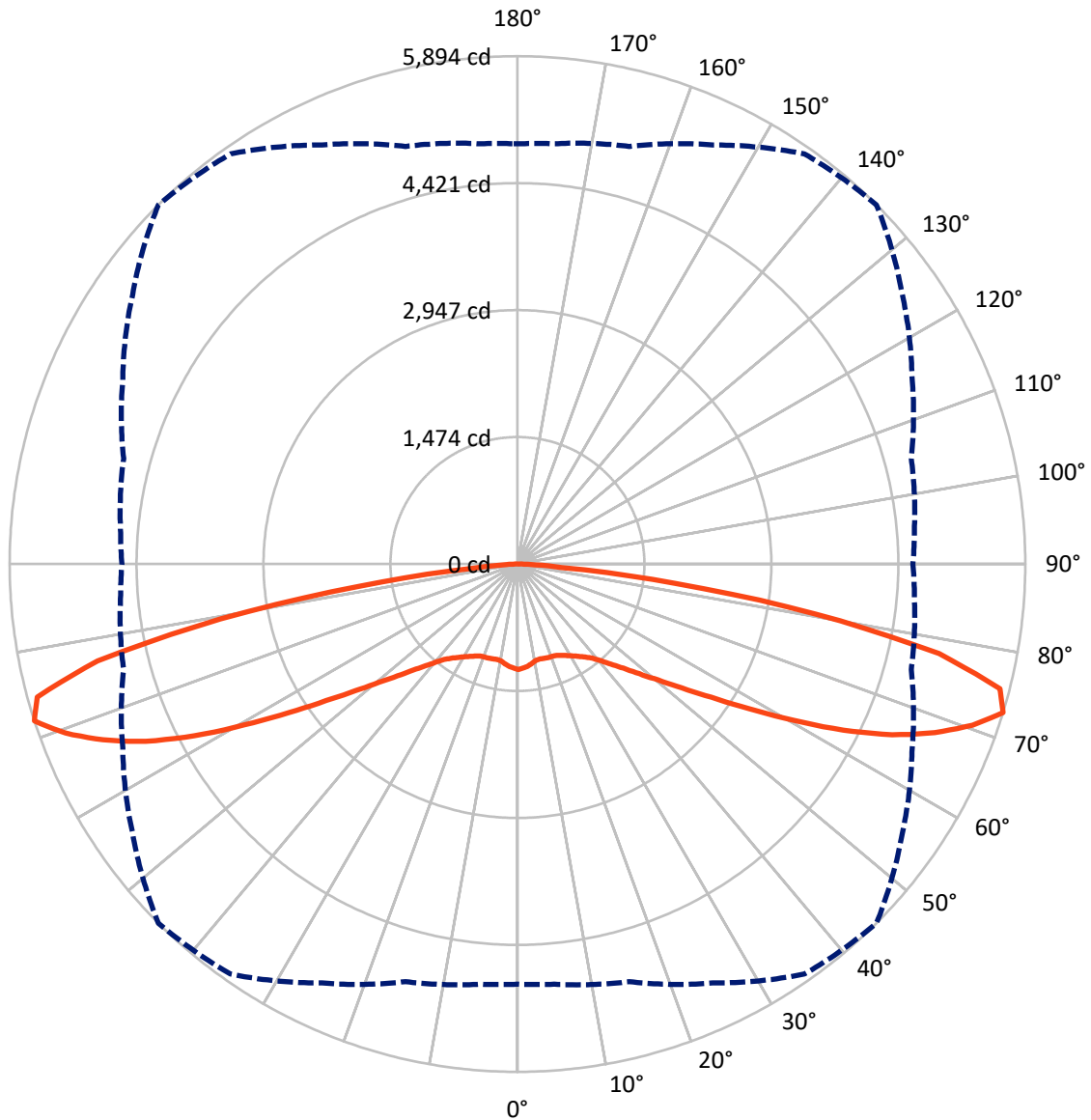


Based on 20 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P265598

CATALOG NUMBER: ARCH-L-AF72-120-D-U-5WQ-7027

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: ARCH-L-AF72-120-D-U-5WQ-7027

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7429.3	0.0	7429.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7429.3	0.0	7429.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14858.7	0.0	14858.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.7	0.8
10°-20°	325.1	2.2
20°-30°	544.1	3.7
30°-40°	836.0	5.6
40°-50°	1384.2	9.3
50°-60°	2460.9	16.6
60°-70°	4305.3	29.0
70°-80°	4380.3	29.5
80°-90°	510.1	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°	14858.7	100.0
0°-180°	14858.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P265598

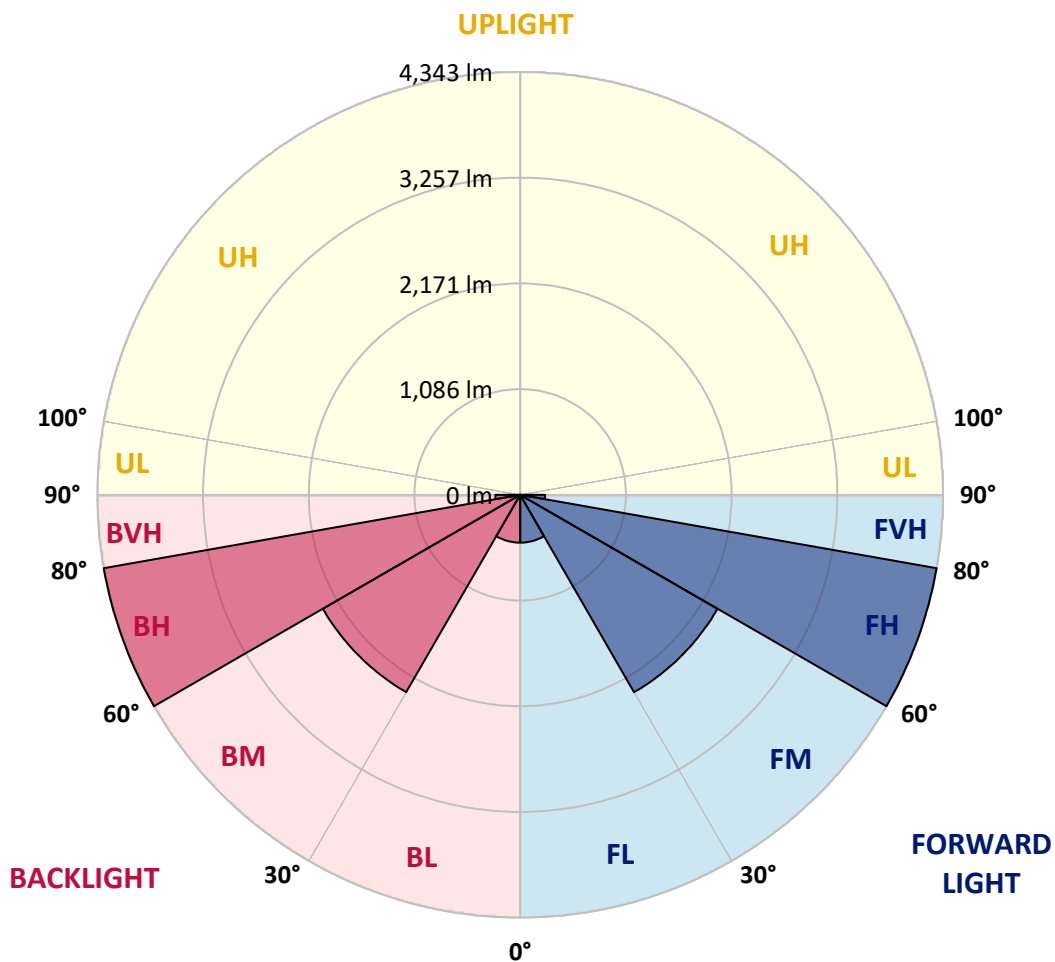
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	491.0	3.3			
FM	(30°-60°)	2340.6	15.8			
FH	(60°-80°)	4342.8	29.2			G2/5000
FVH	(80°-90°)	255.0	1.7			G3/500
BL	(0°-30°)	491.0	3.3	B1/500		
BM	(30°-60°)	2340.6	15.8	B2/2500		
BH	(60°-80°)	4342.8	29.2	B4/5000		G2/5000
BVH	(80°-90°)	255.0	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°	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7
2.5°	1213.4	1216.2	1210.6	1210.6	1210.6	1207.7	1210.6	1207.7	1210.6	1213.4	1213.4
5°	1202.1	1202.1	1196.5	1196.5	1196.5	1193.6	1196.5	1196.5	1199.2	1202.1	1202.1
7.5°	1176.6	1176.6	1173.7	1171.0	1168.2	1168.2	1171.0	1171.0	1173.7	1176.6	1176.6
10°	1162.4	1159.6	1154.1	1145.5	1142.6	1139.9	1145.5	1151.2	1159.6	1168.2	1165.3
12.5°	1156.7	1154.1	1142.6	1134.2	1128.5	1131.3	1137.1	1142.6	1156.7	1165.3	1162.4
15°	1162.4	1156.7	1142.6	1128.5	1131.3	1137.1	1142.6	1142.6	1159.6	1168.2	1168.2
17.5°	1162.4	1159.6	1142.6	1131.3	1134.2	1142.6	1145.5	1142.6	1156.7	1171.0	1171.0
20°	1165.3	1165.3	1142.6	1134.2	1137.1	1145.5	1148.4	1145.5	1156.7	1173.7	1173.7
22.5°	1171.0	1168.2	1145.5	1139.9	1145.5	1151.2	1154.1	1151.2	1162.4	1176.6	1179.5
25°	1182.3	1176.6	1156.7	1154.1	1165.3	1173.7	1173.7	1168.2	1173.7	1187.9	1187.9
27.5°	1196.5	1193.6	1171.0	1171.0	1185.1	1202.1	1193.6	1182.3	1187.9	1202.1	1202.1
30°	1221.9	1219.0	1196.5	1196.5	1216.2	1236.0	1216.2	1202.1	1210.6	1224.7	1227.5
32.5°	1258.6	1258.6	1238.9	1233.3	1267.1	1275.7	1267.1	1238.9	1244.5	1264.4	1264.4
35°	1320.9	1315.2	1295.4	1292.7	1326.4	1323.7	1320.9	1295.4	1301.0	1323.7	1323.7
37.5°	1403.0	1400.1	1383.1	1374.5	1391.6	1380.2	1385.9	1374.5	1388.7	1405.7	1408.5
40°	1507.5	1504.8	1490.6	1479.2	1484.9	1467.9	1473.6	1479.2	1493.4	1504.8	1507.5
42.5°	1637.6	1637.6	1623.4	1603.7	1595.2	1586.8	1586.8	1598.1	1612.2	1626.3	1626.3
45°	1798.9	1798.9	1781.9	1762.0	1736.7	1722.5	1728.2	1739.5	1756.5	1773.4	1779.1
47.5°	1988.4	1988.4	1965.8	1946.0	1920.4	1903.5	1903.5	1909.2	1934.6	1948.8	1957.2
50°	2200.5	2192.0	2169.3	2149.6	2135.5	2112.9	2115.7	2112.9	2135.5	2155.3	2161.0
52.5°	2421.1	2418.2	2395.7	2390.0	2398.5	2387.2	2387.2	2358.9	2367.4	2378.7	2375.8
55°	2695.5	2687.0	2667.2	2678.4	2712.4	2729.4	2723.8	2678.4	2653.1	2658.8	2655.8
57.5°	2995.3	2986.8	2981.1	3015.2	3091.4	3162.2	3148.0	3043.4	2995.3	2998.2	3001.0
60°	3300.7	3300.7	3317.7	3402.6	3566.6	3682.6	3640.1	3464.9	3380.0	3363.0	3357.3
62.5°	3614.7	3623.1	3660.0	3801.4	4053.2	4245.4	4138.0	3889.0	3761.8	3727.8	3716.5
65°	3979.5	3988.0	4041.7	4217.2	4551.0	4780.1	4596.2	4361.5	4183.1	4112.5	4101.2
67.5°	4508.5	4514.2	4556.6	4726.3	5040.2	5224.1	5034.6	4825.2	4632.9	4551.0	4545.2
70°	4983.6	4989.2	5026.0	5249.5	5538.1	5603.1	5393.8	5127.9	4927.1	4862.0	4850.7
72.5°	4876.2	4895.9	5017.7	5365.4	5809.6	5894.4	5453.2	5054.4	4731.9	4624.5	4590.5
75°	4089.9	4121.0	4313.3	4836.6	5543.7	5784.0	5102.5	4369.9	3889.0	3682.6	3628.9
77.5°	2387.2	2503.1	2834.1	3504.4	4514.2	5003.4	4203.0	3199.0	2390.0	2050.7	1937.5
80°	653.3	715.6	955.9	1612.2	2831.2	3504.4	2681.4	1467.9	791.9	594.0	551.5
82.5°	206.5	274.3	348.0	463.9	1111.6	1846.9	995.6	432.8	339.4	280.0	248.9
85°	110.3	118.8	195.1	226.3	333.7	517.7	308.3	226.3	203.6	149.8	141.5
87.5°	56.6	59.4	110.3	110.3	147.1	121.6	132.9	121.6	116.1	73.5	65.0
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)