

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: P265580

Luminaire Tested: **ARCH-L-AF72-100-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265580
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-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 12612 lumens
Efficiency: N/A
Efficacy: 123.6 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 - G2

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

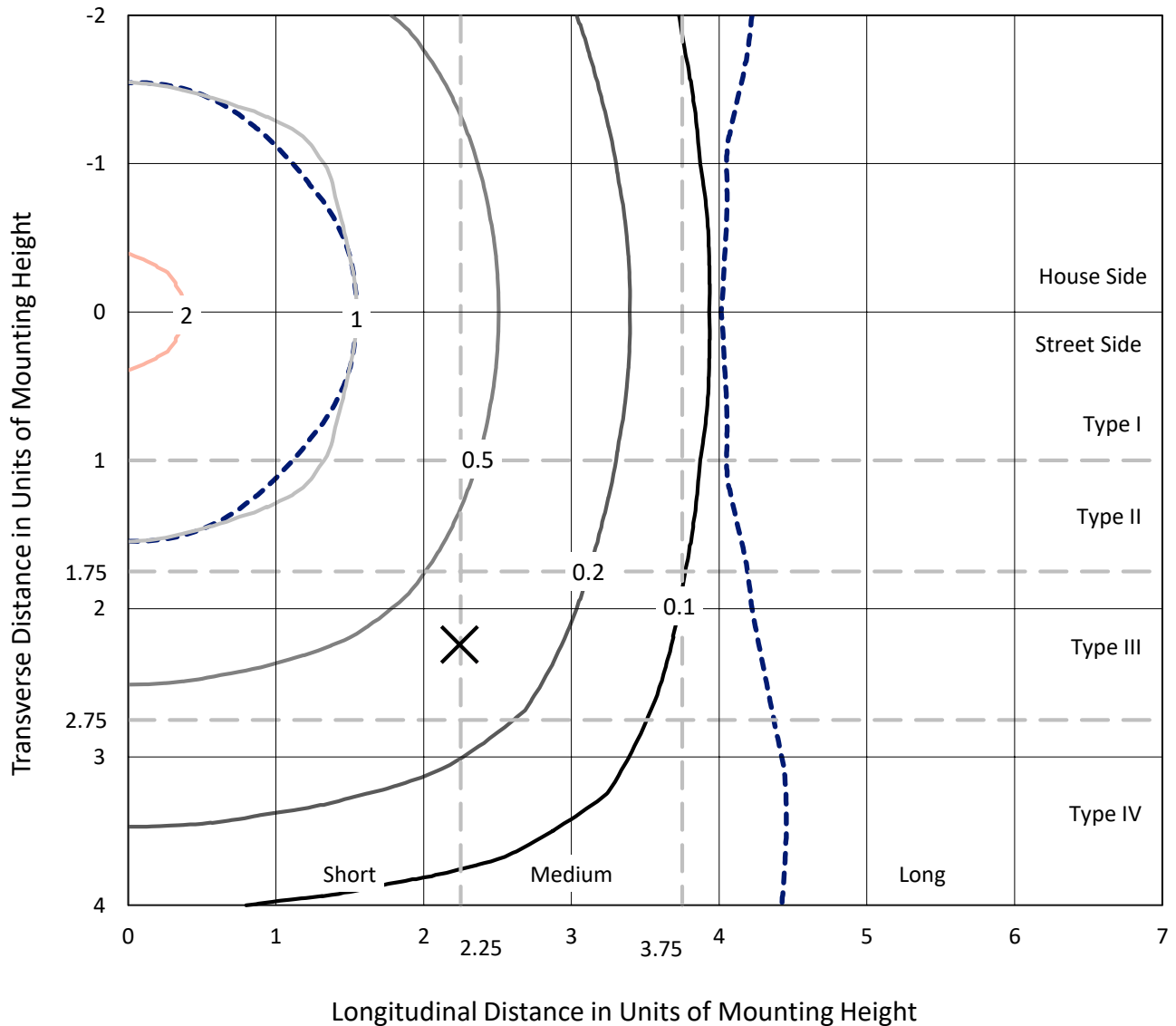


REPORT NUMBER: P265580

CATALOG NUMBER: ARCH-L-AF72-100-D-U-5WQ-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

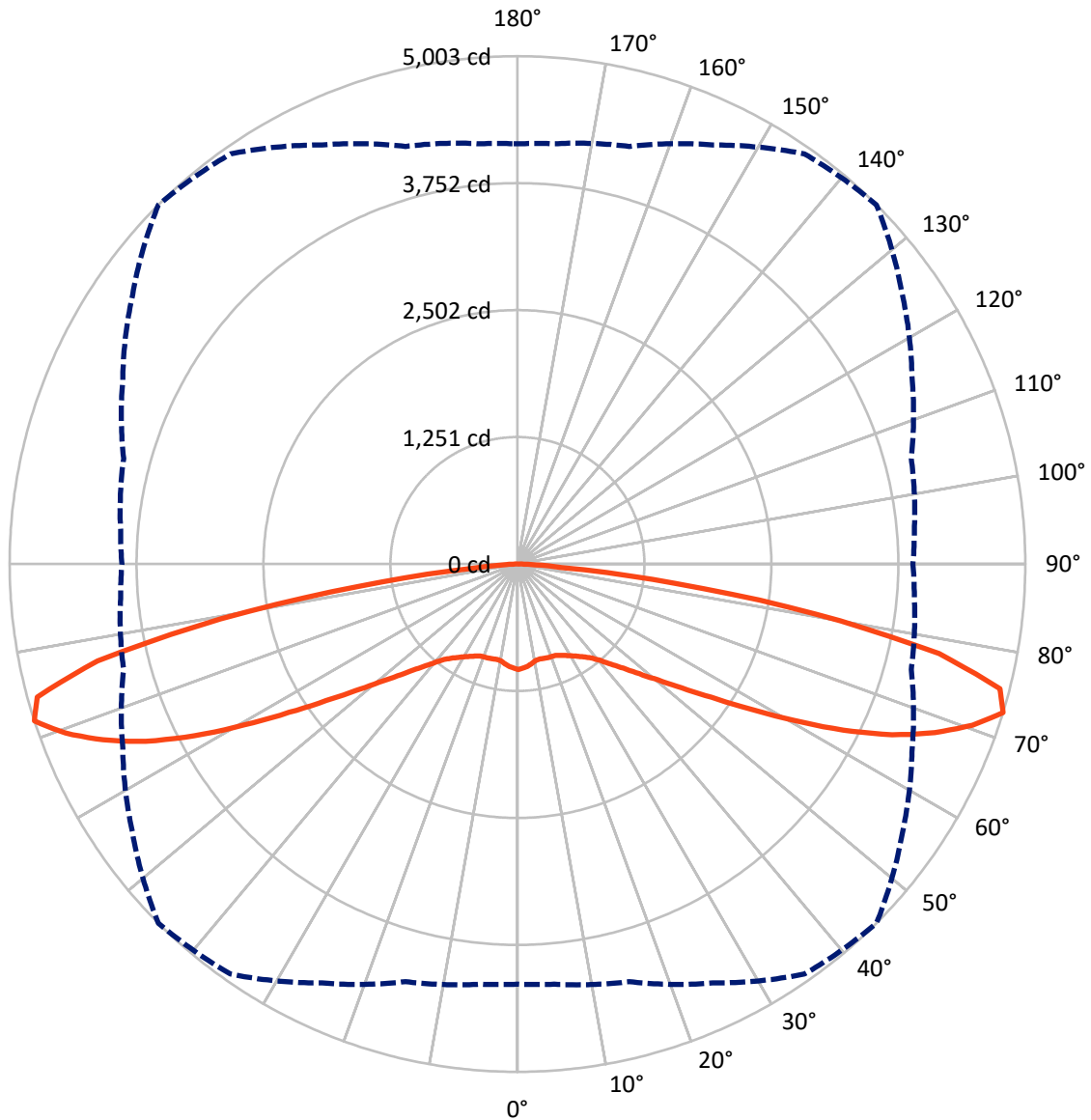


Based on 20 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P265580

CATALOG NUMBER: ARCH-L-AF72-100-D-U-5WQ-7027

Luminous Intensity Polar Plot



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

REPORT NUMBER: P265580

CATALOG NUMBER: ARCH-L-AF72-100-D-U-5WQ-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6306.0	0.0	6306.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6306.0	0.0	6306.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12612.0	0.0	12612.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	0.8
10°-20°	276.0	2.2
20°-30°	461.8	3.7
30°-40°	709.6	5.6
40°-50°	1174.9	9.3
50°-60°	2088.8	16.6
60°-70°	3654.3	29.0
70°-80°	3718.0	29.5
80°-90°	432.9	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°	12612.0	100.0
0°-180°	12612.0	100.0



REPORT NUMBER: P265580

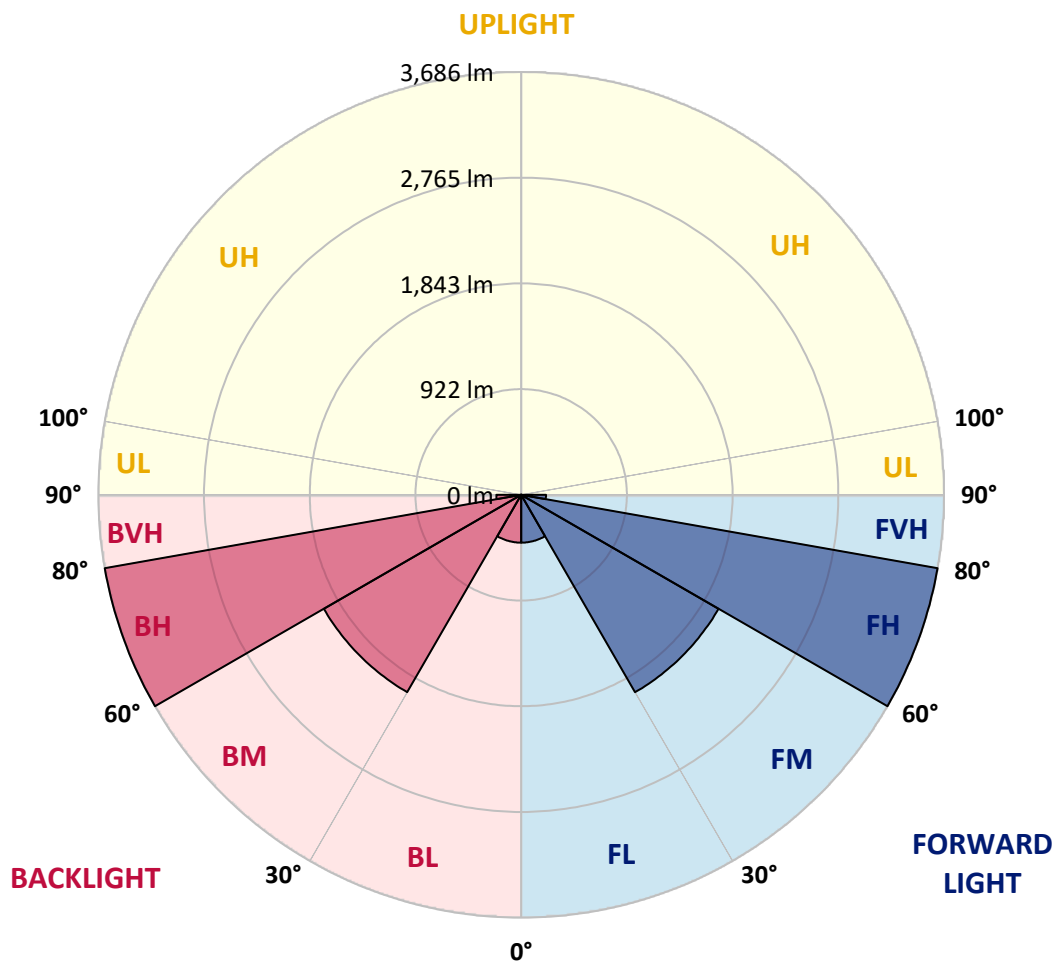
CATALOG NUMBER: ARCH-L-AF72-100-D-U-5WQ-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	416.7	3.3			
FM	(30°-60°)	1986.7	15.8			
FH	(60°-80°)	3686.1	29.2			G2/5000
FVH	(80°-90°)	216.5	1.7			G2/225
BL	(0°-30°)	416.7	3.3	B1/500		
BM	(30°-60°)	1986.7	15.8	B2/2500		
BH	(60°-80°)	3686.1	29.2	B4/5000		G2/5000
BVH	(80°-90°)	216.5	1.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P265580

CATALOG NUMBER: ARCH-L-AF72-100-D-U-5WQ-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5	1039.5
2.5°	1029.9	1032.3	1027.5	1027.5	1027.5	1025.1	1027.5	1025.1	1027.5	1029.9	1029.9
5°	1020.4	1020.4	1015.5	1015.5	1015.5	1013.1	1015.5	1015.5	1017.9	1020.4	1020.4
7.5°	998.7	998.7	996.3	994.0	991.5	991.5	994.0	994.0	996.3	998.7	998.7
10°	986.7	984.4	979.5	972.2	969.9	967.6	972.2	977.0	984.4	991.5	989.2
12.5°	981.8	979.5	969.9	962.8	958.0	960.3	965.0	969.9	981.8	989.2	986.7
15°	986.7	981.8	969.9	958.0	960.3	965.0	969.9	969.9	984.4	991.5	991.5
17.5°	986.7	984.4	969.9	960.3	962.8	969.9	972.2	969.9	981.8	994.0	994.0
20°	989.2	989.2	969.9	962.8	965.0	972.2	974.8	972.2	981.8	996.3	996.3
22.5°	994.0	991.5	972.2	967.6	972.2	977.0	979.5	977.0	986.7	998.7	1001.2
25°	1003.4	998.7	981.8	979.5	989.2	996.3	996.3	991.5	996.3	1008.3	1008.3
27.5°	1015.5	1013.1	994.0	994.0	1005.9	1020.4	1013.1	1003.4	1008.3	1020.4	1020.4
30°	1037.2	1034.7	1015.5	1015.5	1032.3	1049.1	1032.3	1020.4	1027.5	1039.5	1041.9
32.5°	1068.4	1068.4	1051.6	1046.7	1075.5	1082.7	1075.5	1051.6	1056.3	1073.1	1073.1
35°	1121.2	1116.4	1099.5	1097.1	1125.9	1123.6	1121.2	1099.5	1104.3	1123.6	1123.6
37.5°	1190.8	1188.4	1173.9	1166.8	1181.2	1171.6	1176.4	1166.8	1178.8	1193.2	1195.6
40°	1279.5	1277.2	1265.3	1255.7	1260.4	1245.9	1250.8	1255.7	1267.6	1277.2	1279.5
42.5°	1390.0	1390.0	1378.0	1361.2	1354.0	1346.7	1346.7	1356.4	1368.4	1380.4	1380.4
45°	1526.8	1526.8	1512.4	1495.7	1474.1	1462.0	1466.8	1476.5	1490.8	1505.3	1510.1
47.5°	1687.7	1687.7	1668.5	1651.8	1630.2	1615.7	1615.7	1620.5	1642.1	1654.0	1661.3
50°	1867.8	1860.6	1841.3	1824.5	1812.6	1793.3	1795.7	1793.3	1812.6	1829.4	1834.2
52.5°	2055.1	2052.6	2033.5	2028.6	2035.7	2026.2	2026.2	2002.2	2009.4	2019.0	2016.7
55°	2288.0	2280.6	2263.9	2273.5	2302.4	2316.6	2311.9	2273.5	2252.0	2256.7	2254.2
57.5°	2542.5	2535.1	2530.3	2559.2	2623.9	2684.0	2672.1	2583.2	2542.5	2544.8	2547.2
60°	2801.6	2801.6	2816.0	2888.1	3027.4	3125.8	3089.8	2941.0	2868.8	2854.5	2849.8
62.5°	3068.2	3075.3	3106.6	3226.6	3440.2	3603.6	3512.4	3301.0	3192.9	3164.2	3154.6
65°	3377.8	3385.1	3430.6	3579.6	3862.8	4057.3	3901.2	3701.9	3550.7	3490.8	3481.1
67.5°	3826.8	3831.6	3867.7	4011.7	4278.2	4434.2	4273.3	4095.7	3932.4	3862.8	3858.0
70°	4230.1	4234.9	4266.1	4455.9	4700.7	4755.8	4578.2	4352.6	4182.1	4127.0	4117.3
72.5°	4138.9	4155.6	4259.0	4554.2	4931.2	5003.2	4628.6	4290.1	4016.4	3925.2	3896.4
75°	3471.5	3497.9	3661.1	4105.3	4705.5	4909.5	4331.0	3709.1	3301.0	3125.8	3080.2
77.5°	2026.2	2124.8	2405.5	2974.6	3831.6	4246.9	3567.4	2715.2	2028.6	1740.6	1644.4
80°	554.6	607.4	811.4	1368.4	2403.1	2974.6	2275.9	1245.9	672.2	504.2	468.1
82.5°	175.3	232.9	295.4	393.7	943.5	1567.7	845.0	367.2	288.0	237.7	211.3
85°	93.7	100.8	165.6	192.1	283.2	439.4	261.6	192.1	172.8	127.2	120.1
87.5°	48.0	50.5	93.7	93.7	124.9	103.2	112.8	103.2	98.5	62.4	55.2
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)