

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: P214522

Luminaire Tested: **ARCH-AF24-70-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214522
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-AF24-70-D-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8858.8 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 74
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

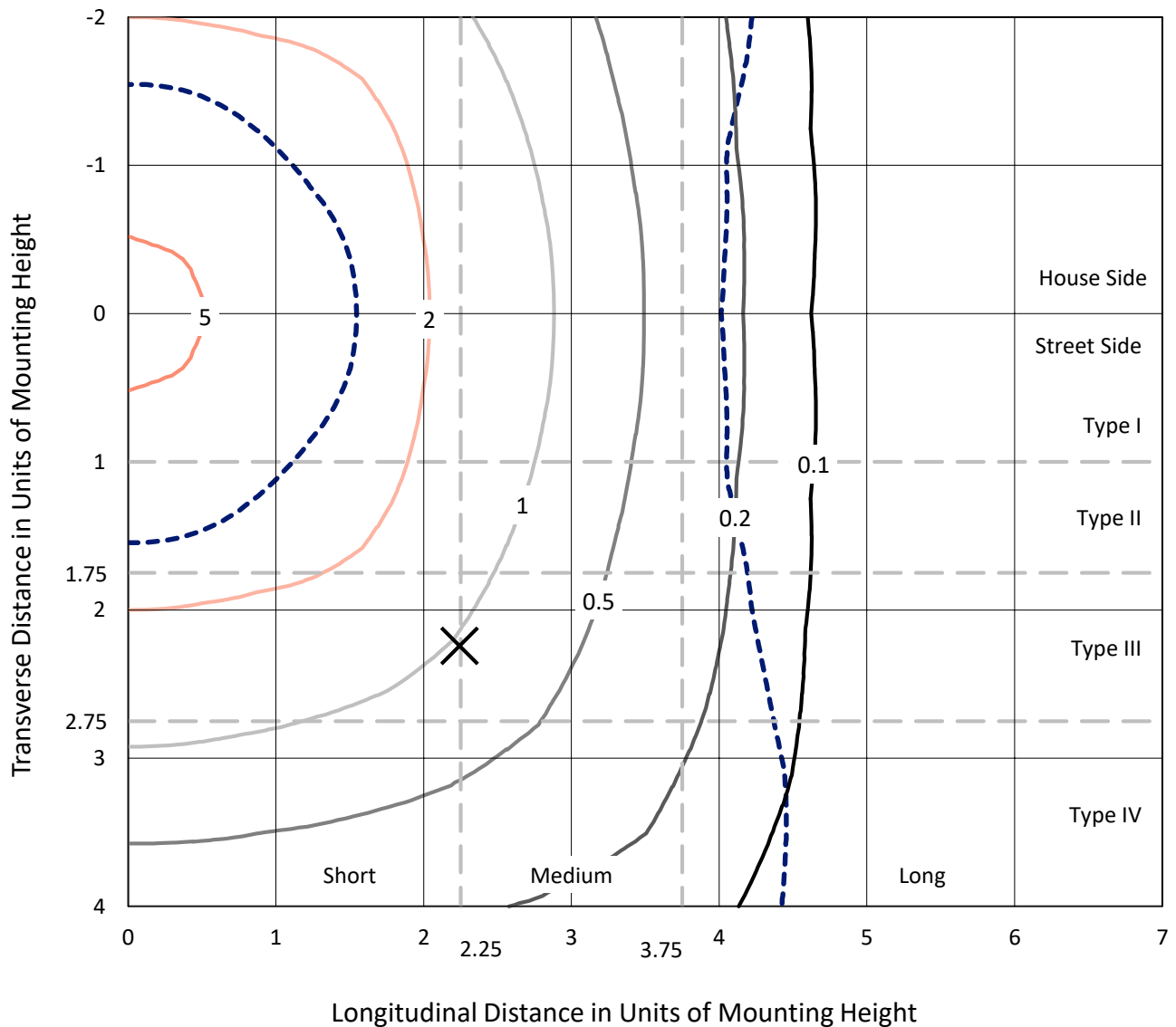


REPORT NUMBER: P214522

CATALOG NUMBER: ARCH-AF24-70-D-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

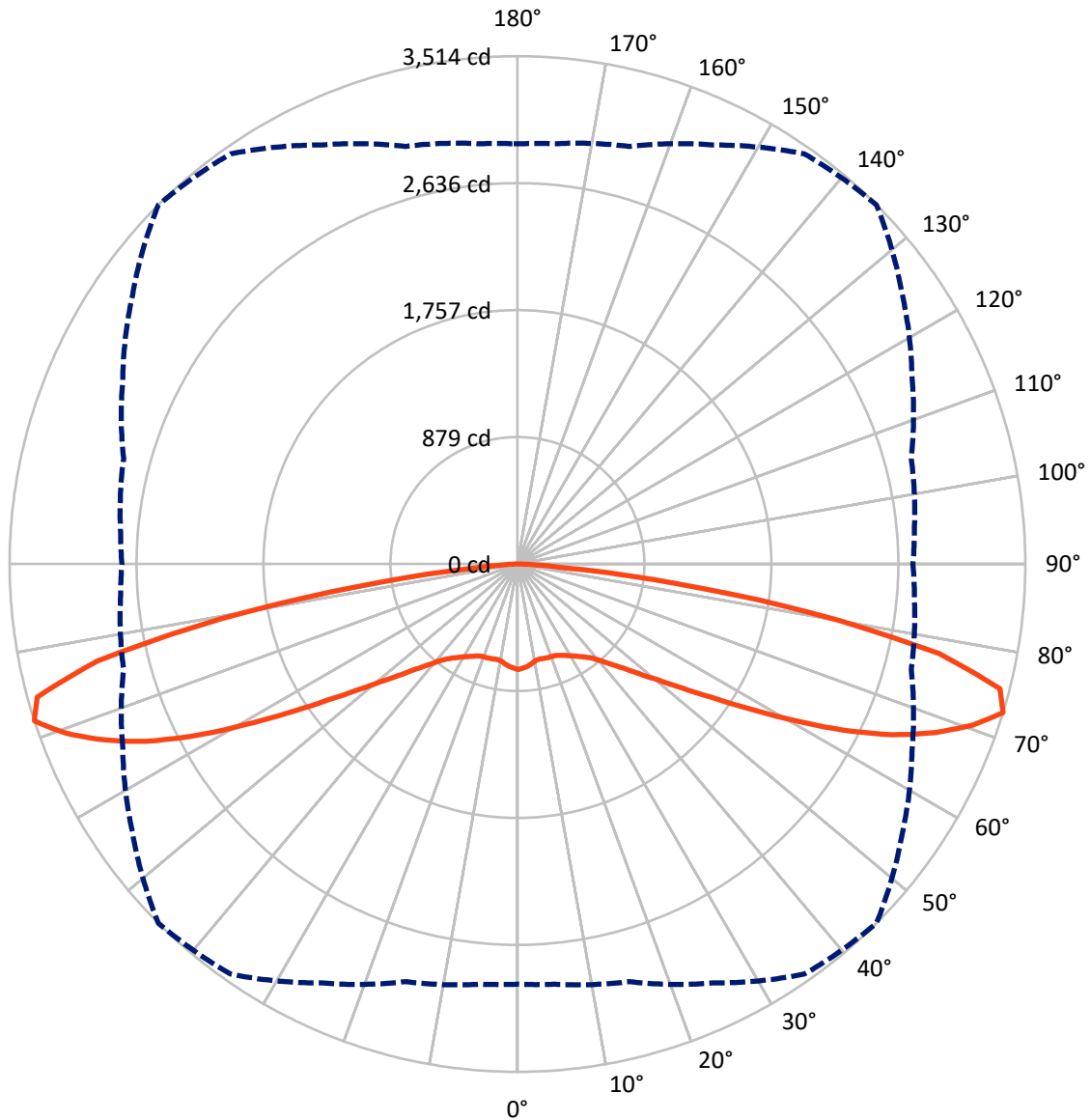


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P214522

CATALOG NUMBER: ARCH-AF24-70-D-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P214522

CATALOG NUMBER: ARCH-AF24-70-D-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4429.4	0.0	4429.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4429.4	0.0	4429.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	8858.8	0.0	8858.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	0.8
10°-20°	193.8	2.2
20°-30°	324.4	3.7
30°-40°	498.4	5.6
40°-50°	825.3	9.3
50°-60°	1467.2	16.6
60°-70°	2566.8	29.0
70°-80°	2611.5	29.5
80°-90°	304.1	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°	8858.8	100.0
0°-180°	8858.8	100.0



REPORT NUMBER: P214522

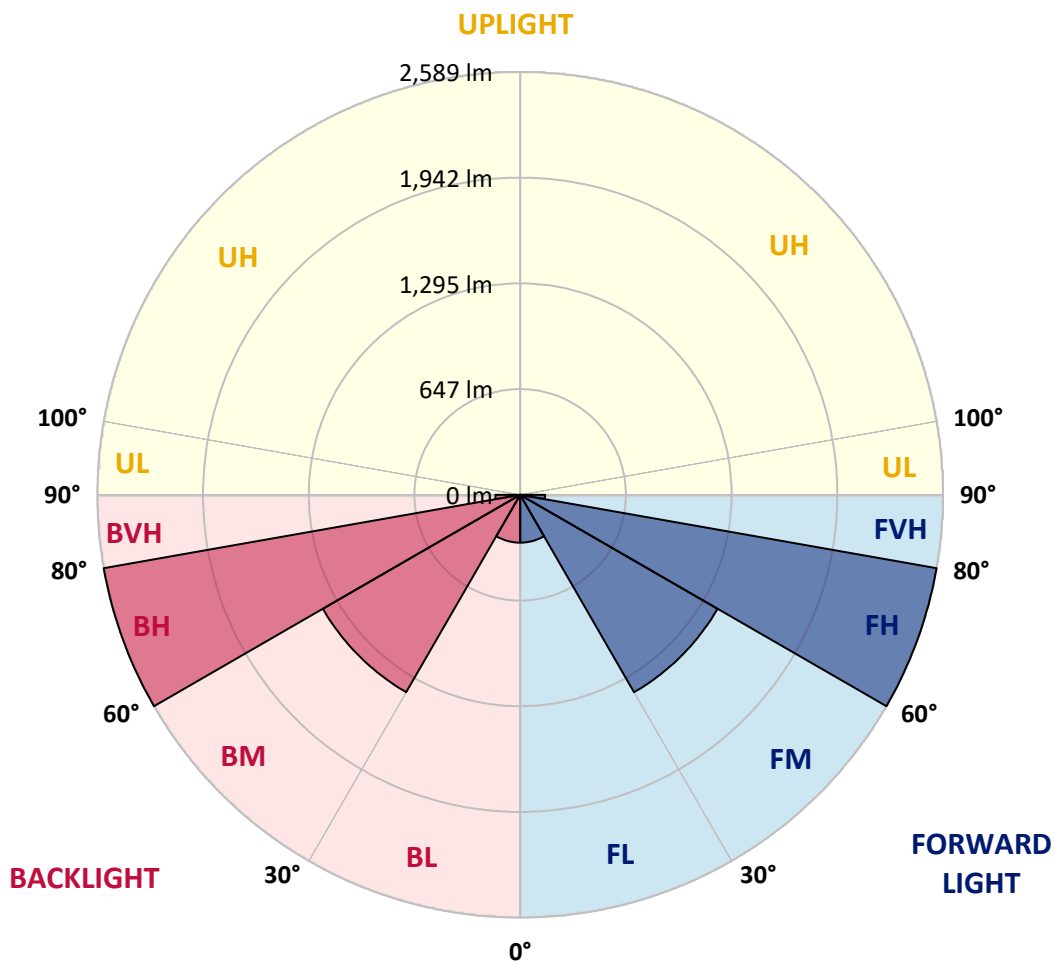
CATALOG NUMBER: ARCH-AF24-70-D-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	292.7	3.3			
FM	(30°-60°)	1395.4	15.8			
FH	(60°-80°)	2589.2	29.2			G2/5000
FVH	(80°-90°)	152.1	1.7			G2/225
BL	(0°-30°)	292.7	3.3	B1/500		
BM	(30°-60°)	1395.4	15.8	B2/2500		
BH	(60°-80°)	2589.2	29.2	B4/5000		G2/5000
BVH	(80°-90°)	152.1	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: P214522

CATALOG NUMBER: ARCH-AF24-70-D-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	730.2	730.2	730.2	730.2	730.2	730.2	730.2	730.2	730.2	730.2	730.2
2.5°	723.4	725.1	721.7	721.7	721.7	720.1	721.7	720.1	721.7	723.4	723.4
5°	716.7	716.7	713.3	713.3	713.3	711.7	713.3	713.3	714.9	716.7	716.7
7.5°	701.5	701.5	699.8	698.2	696.4	696.4	698.2	698.2	699.8	701.5	701.5
10°	693.0	691.4	688.0	682.9	681.3	679.5	682.9	686.3	691.4	696.4	694.8
12.5°	689.7	688.0	681.3	676.2	672.8	674.5	677.9	681.3	689.7	694.8	693.0
15°	693.0	689.7	681.3	672.8	674.5	677.9	681.3	681.3	691.4	696.4	696.4
17.5°	693.0	691.4	681.3	674.5	676.2	681.3	682.9	681.3	689.7	698.2	698.2
20°	694.8	694.8	681.3	676.2	677.9	682.9	684.7	682.9	689.7	699.8	699.8
22.5°	698.2	696.4	682.9	679.5	682.9	686.3	688.0	686.3	693.0	701.5	703.2
25°	704.9	701.5	689.7	688.0	694.8	699.8	699.8	696.4	699.8	708.3	708.3
27.5°	713.3	711.7	698.2	698.2	706.6	716.7	711.7	704.9	708.3	716.7	716.7
30°	728.4	726.8	713.3	713.3	725.1	736.9	725.1	716.7	721.7	730.2	731.8
32.5°	750.4	750.4	738.6	735.2	755.4	760.6	755.4	738.6	741.9	753.8	753.8
35°	787.5	784.1	772.3	770.6	790.8	789.2	787.5	772.3	775.7	789.2	789.2
37.5°	836.4	834.7	824.6	819.6	829.6	823.0	826.2	819.6	828.0	838.1	839.7
40°	898.8	897.1	888.6	881.9	885.3	875.2	878.6	881.9	890.4	897.1	898.8
42.5°	976.4	976.4	967.9	956.2	951.0	946.0	946.0	952.8	961.2	969.7	969.7
45°	1072.5	1072.5	1062.3	1050.6	1035.4	1026.9	1030.3	1037.1	1047.2	1057.3	1060.7
47.5°	1185.5	1185.5	1172.0	1160.1	1145.0	1134.9	1134.9	1138.2	1153.4	1161.9	1166.9
50°	1311.9	1306.9	1293.4	1281.6	1273.2	1259.7	1261.4	1259.7	1273.2	1284.9	1288.3
52.5°	1443.5	1441.7	1428.2	1425.0	1430.0	1423.2	1423.2	1406.4	1411.5	1418.2	1416.5
55°	1607.1	1601.9	1590.2	1596.9	1617.2	1627.3	1623.9	1596.9	1581.8	1585.2	1583.4
57.5°	1785.8	1780.8	1777.4	1797.6	1843.2	1885.3	1876.8	1814.4	1785.8	1787.5	1789.1
60°	1968.0	1968.0	1978.0	2028.6	2126.4	2195.6	2170.3	2065.7	2015.1	2005.0	2001.6
62.5°	2155.1	2160.2	2182.1	2266.3	2416.4	2531.1	2467.1	2318.6	2242.8	2222.6	2215.8
65°	2372.6	2377.6	2409.8	2514.3	2713.3	2849.8	2740.3	2600.2	2494.1	2451.9	2445.2
67.5°	2688.0	2691.3	2716.7	2817.8	3005.0	3114.6	3001.6	2876.8	2762.2	2713.3	2709.9
70°	2971.3	2974.6	2996.5	3129.8	3301.8	3340.5	3215.7	3057.3	2937.5	2898.7	2892.0
72.5°	2907.2	2919.0	2991.5	3198.9	3463.6	3514.2	3251.1	3013.4	2821.2	2757.1	2736.9
75°	2438.4	2456.9	2571.6	2883.6	3305.2	3448.5	3042.1	2605.4	2318.6	2195.6	2163.5
77.5°	1423.2	1492.4	1689.7	2089.3	2691.3	2983.0	2505.8	1907.2	1425.0	1222.5	1155.1
80°	389.5	426.7	570.0	961.2	1688.0	2089.3	1598.6	875.2	472.2	354.1	328.9
82.5°	123.1	163.6	207.5	276.5	662.7	1101.1	593.6	258.0	202.3	166.9	148.4
85°	65.8	70.8	116.3	134.9	199.0	308.6	183.8	134.9	121.4	89.4	84.3
87.5°	33.8	35.4	65.8	65.8	87.7	72.5	79.3	72.5	69.2	43.9	38.8
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)