

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: P236748

Luminaire Tested: **ARCH-L-AF72-150-D-U-5WQ-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-150-D-U-5WQ-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20661 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

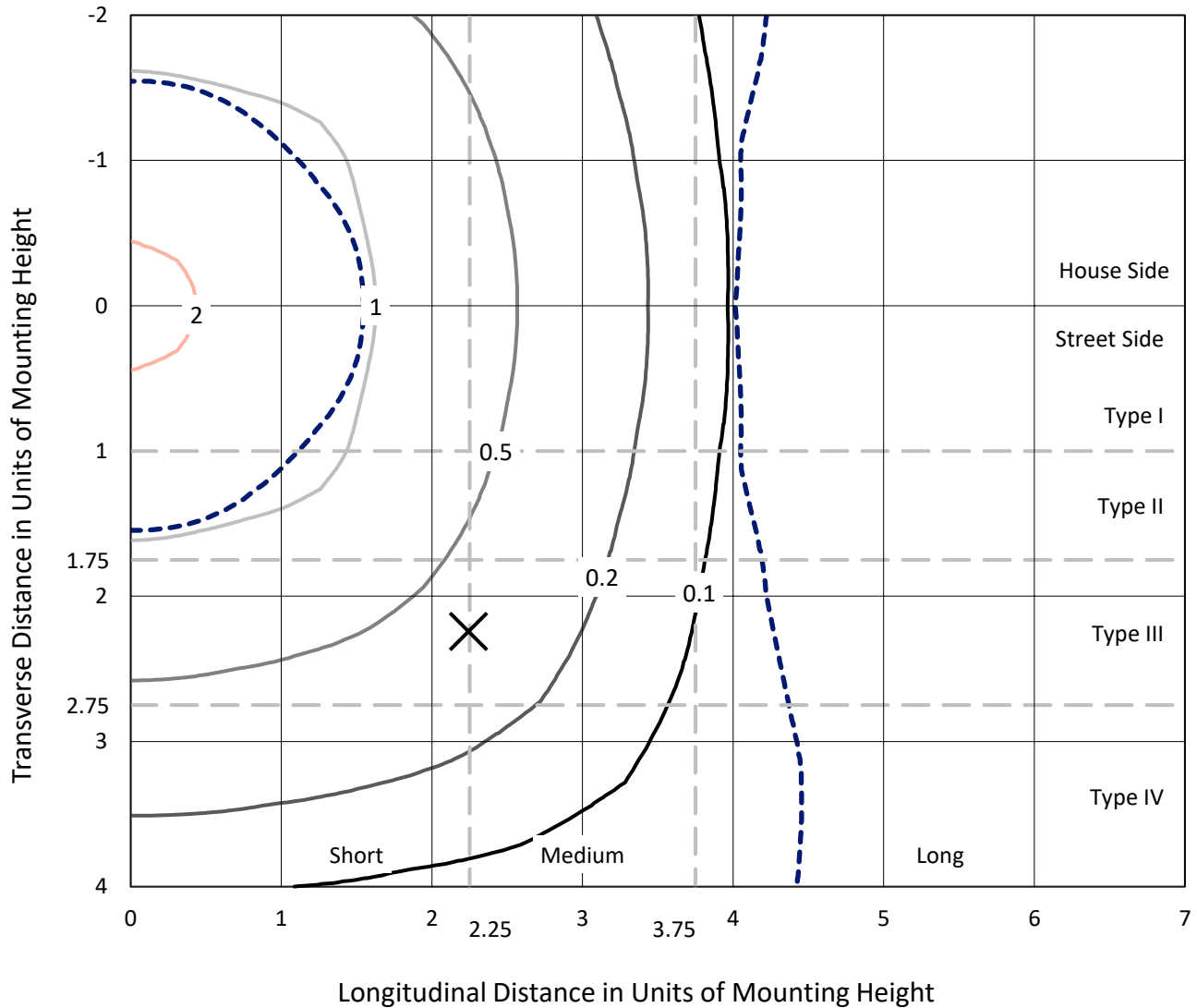
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P236748
 CATALOG NUMBER: ARCH-L-AF72-150-D-U-5WQ-7050

Iso-Footcandle Lines of Horizontal Illumination

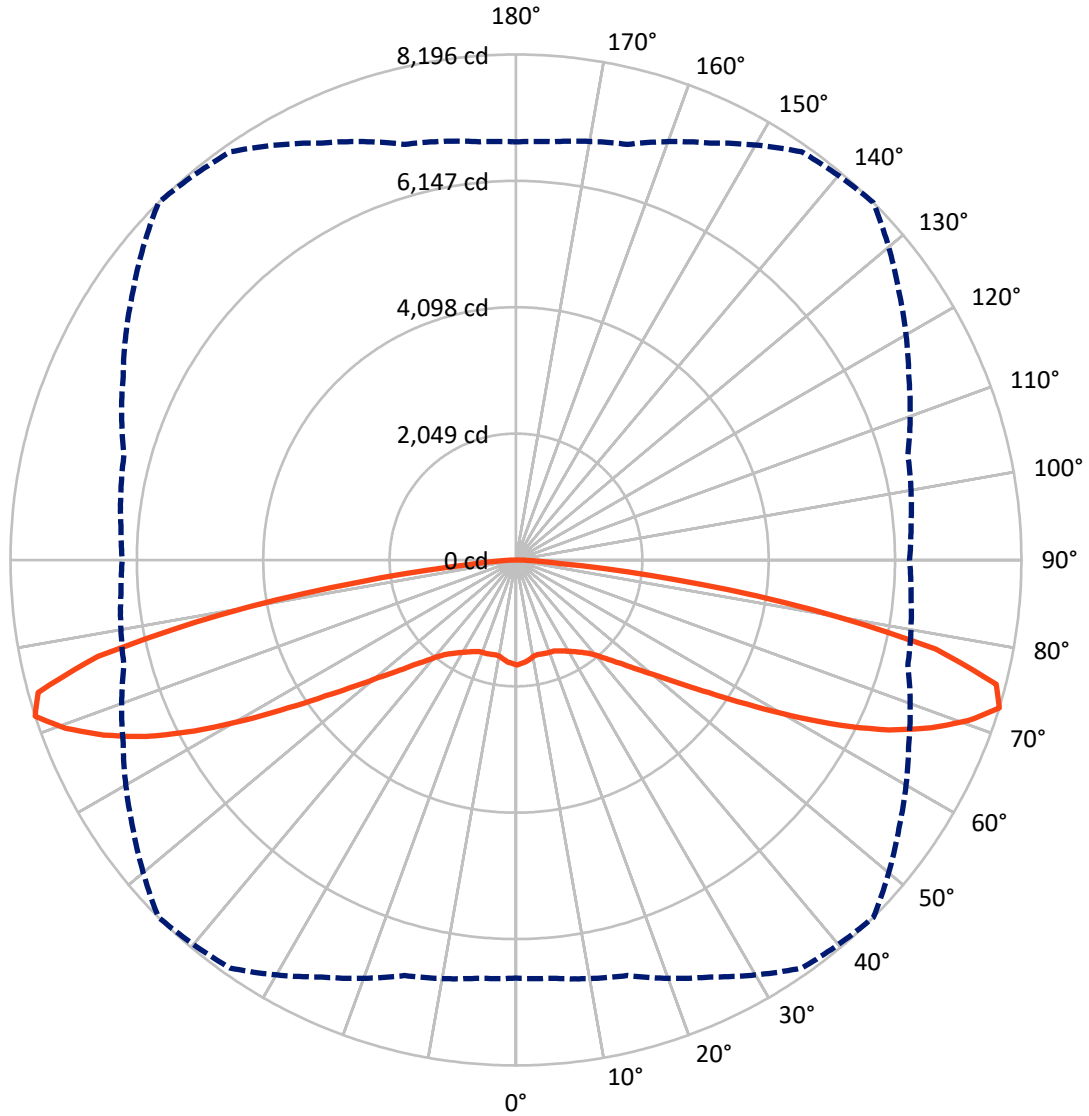
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

REPORT NUMBER: P236748
CATALOG NUMBER: ARCH-L-AF72-150-D-U-5WQ-7050

Luminous Intensity Polar Plot



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

REPORT NUMBER: P236748
 CATALOG NUMBER: ARCH-L-AF72-150-D-U-5WQ-7050

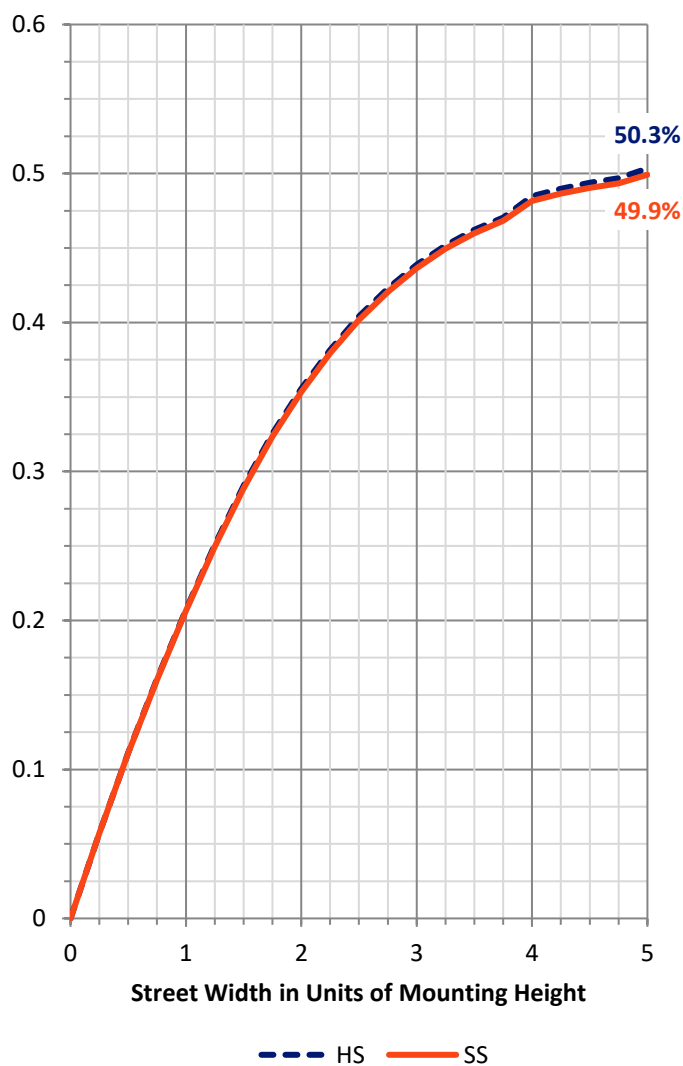
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10330.5	0.0	10330.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10330.5	0.0	10330.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20661.0	0.0	20661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	0.8
10°-20°	452.1	2.2
20°-30°	756.6	3.7
30°-40°	1162.5	5.6
40°-50°	1924.8	9.3
50°-60°	3421.9	16.6
60°-70°	5986.5	29.0
70°-80°	6090.8	29.5
80°-90°	709.2	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°	20661.0	100.0
0°-180°	20661.0	100.0

Coefficient of Utilization



REPORT NUMBER: P236748

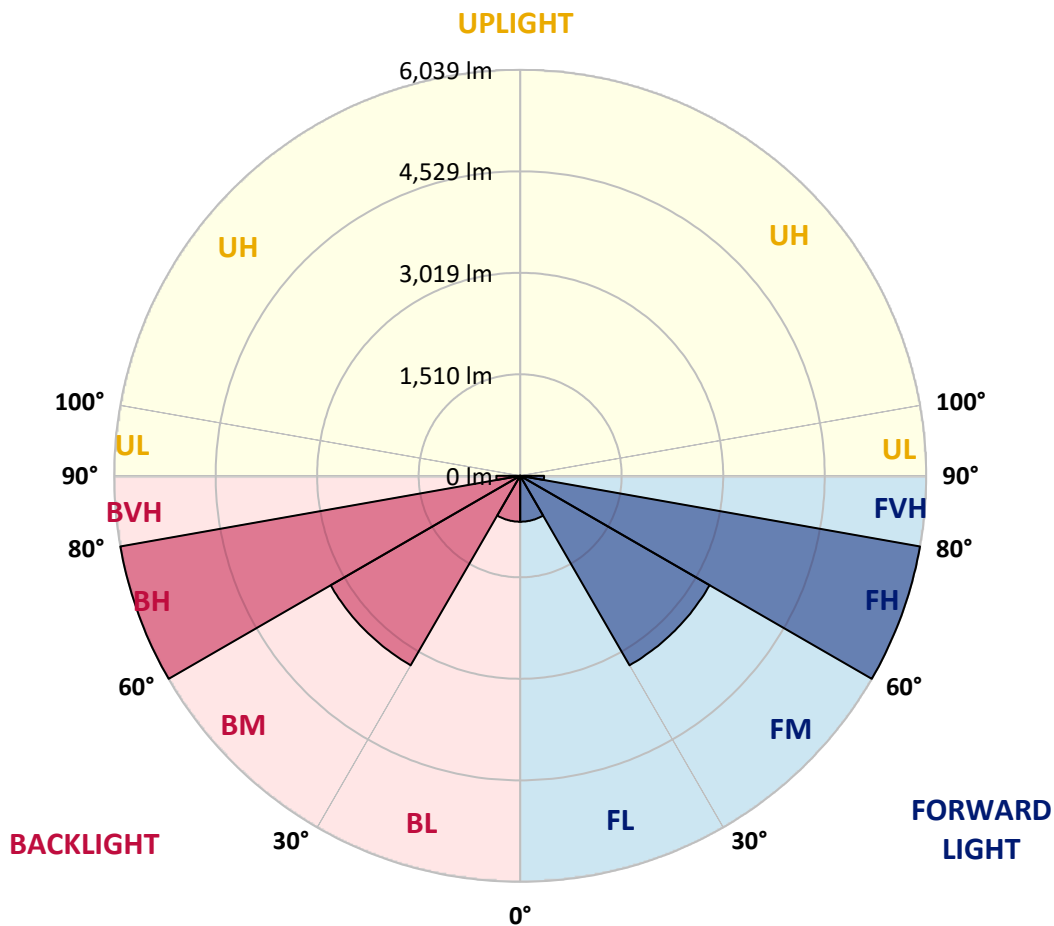
CATALOG NUMBER: ARCH-L-AF72-150-D-U-5WQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	682.7	3.3			
FM (30°-60°)	3254.6	15.8			
FH (60°-80°)	6038.6	29.2			G3/7500
FVH (80°-90°)	354.6	1.7			G3/500
BL (0°-30°)	682.7	3.3	B2/1000		
BM (30°-60°)	3254.6	15.8	B3/5000		
BH (60°-80°)	6038.6	29.2	B5		G3/7500
BVH (80°-90°)	354.6	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: P236748

CATALOG NUMBER: ARCH-L-AF72-150-D-U-5WQ-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9
2.5°	1687.2	1691.1	1683.3	1683.3	1683.3	1679.3	1683.3	1679.3	1683.3	1687.2	1687.2
5°	1671.5	1671.5	1663.6	1663.6	1663.6	1659.7	1663.6	1663.6	1667.6	1671.5	1671.5
7.5°	1636.1	1636.1	1632.2	1628.2	1624.3	1624.3	1628.2	1628.2	1632.2	1636.1	1636.1
10°	1616.4	1612.5	1604.6	1592.8	1588.9	1585.0	1592.8	1600.7	1612.5	1624.3	1620.4
12.5°	1608.6	1604.6	1588.9	1577.1	1569.2	1573.2	1581.0	1588.9	1608.6	1620.4	1616.4
15°	1616.4	1608.6	1588.9	1569.2	1573.2	1581.0	1588.9	1588.9	1612.5	1624.3	1624.3
17.5°	1616.4	1612.5	1588.9	1573.2	1577.1	1588.9	1592.8	1588.9	1608.6	1628.2	1628.2
20°	1620.4	1620.4	1588.9	1577.1	1581.0	1592.8	1596.8	1592.8	1608.6	1632.2	1632.2
22.5°	1628.2	1624.3	1592.8	1585.0	1592.8	1600.7	1604.6	1600.7	1616.4	1636.1	1640.0
25°	1644.0	1636.1	1608.6	1604.6	1620.4	1632.2	1632.2	1624.3	1632.2	1651.8	1651.8
27.5°	1663.6	1659.7	1628.2	1628.2	1647.9	1671.5	1659.7	1644.0	1651.8	1671.5	1671.5
30°	1699.0	1695.1	1663.6	1663.6	1691.1	1718.7	1691.1	1671.5	1683.3	1702.9	1706.9
32.5°	1750.1	1750.1	1722.6	1714.7	1761.9	1773.7	1761.9	1722.6	1730.5	1758.0	1758.0
35°	1836.7	1828.8	1801.3	1797.3	1844.5	1840.6	1836.7	1801.3	1809.1	1840.6	1840.6
37.5°	1950.7	1946.8	1923.2	1911.4	1935.0	1919.3	1927.1	1911.4	1931.1	1954.7	1958.6
40°	2096.2	2092.3	2072.6	2056.9	2064.8	2041.2	2049.0	2056.9	2076.6	2092.3	2096.2
42.5°	2277.2	2277.2	2257.5	2230.0	2218.2	2206.4	2206.4	2222.1	2241.8	2261.4	2261.4
45°	2501.3	2501.3	2477.7	2450.2	2414.8	2395.1	2403.0	2418.7	2442.3	2465.9	2473.8
47.5°	2764.8	2764.8	2733.4	2705.8	2670.4	2646.8	2646.8	2654.7	2690.1	2709.8	2721.6
50°	3059.8	3048.0	3016.5	2989.0	2969.3	2937.9	2941.8	2937.9	2969.3	2996.9	3004.7
52.5°	3366.6	3362.6	3331.2	3323.3	3335.1	3319.4	3319.4	3280.0	3291.8	3307.6	3303.6
55°	3748.1	3736.3	3708.7	3724.5	3771.7	3795.3	3787.4	3724.5	3689.1	3696.9	3693.0
57.5°	4164.9	4153.1	4145.3	4192.5	4298.7	4397.0	4377.3	4231.8	4164.9	4168.9	4172.8
60°	4589.7	4589.7	4613.3	4731.3	4959.4	5120.6	5061.6	4817.8	4699.8	4676.2	4668.4
62.5°	5026.2	5038.0	5089.2	5285.8	5635.8	5903.3	5753.8	5407.7	5230.8	5183.6	5167.8
65°	5533.6	5545.4	5620.1	5864.0	6328.0	6646.6	6391.0	6064.5	5816.8	5718.4	5702.7
67.5°	6269.0	6276.9	6335.9	6571.9	7008.4	7264.1	7000.6	6709.5	6442.1	6328.0	6320.2
70°	6929.8	6937.6	6988.8	7299.5	7700.6	7791.1	7500.0	7130.4	6851.1	6760.7	6744.9
72.5°	6780.3	6807.9	6977.0	7460.7	8078.2	8196.2	7582.6	7028.1	6579.7	6430.3	6383.1
75°	5687.0	5730.2	5997.7	6725.3	7708.5	8042.8	7095.0	6076.3	5407.7	5120.6	5045.9
77.5°	3319.4	3480.6	3940.8	4872.9	6276.9	6957.3	5844.3	4448.1	3323.3	2851.4	2694.0
80°	908.5	995.0	1329.3	2241.8	3936.8	4872.9	3728.4	2041.2	1101.2	825.9	766.9
82.5°	287.1	381.5	483.7	645.0	1545.6	2568.2	1384.4	601.7	471.9	389.4	346.1
85°	153.4	165.2	271.4	314.6	464.1	719.7	428.7	314.6	283.2	208.4	196.6
87.5°	78.7	82.6	153.4	153.4	204.5	169.1	184.8	169.1	161.2	102.3	90.5
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)