

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: P236746

Luminaire Tested: **ARCH-L-AF72-130-D-U-5WQ-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236746
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-AF72-130-D-U-5WQ-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18330 lumens
Efficiency: N/A
Efficacy: 137.8 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

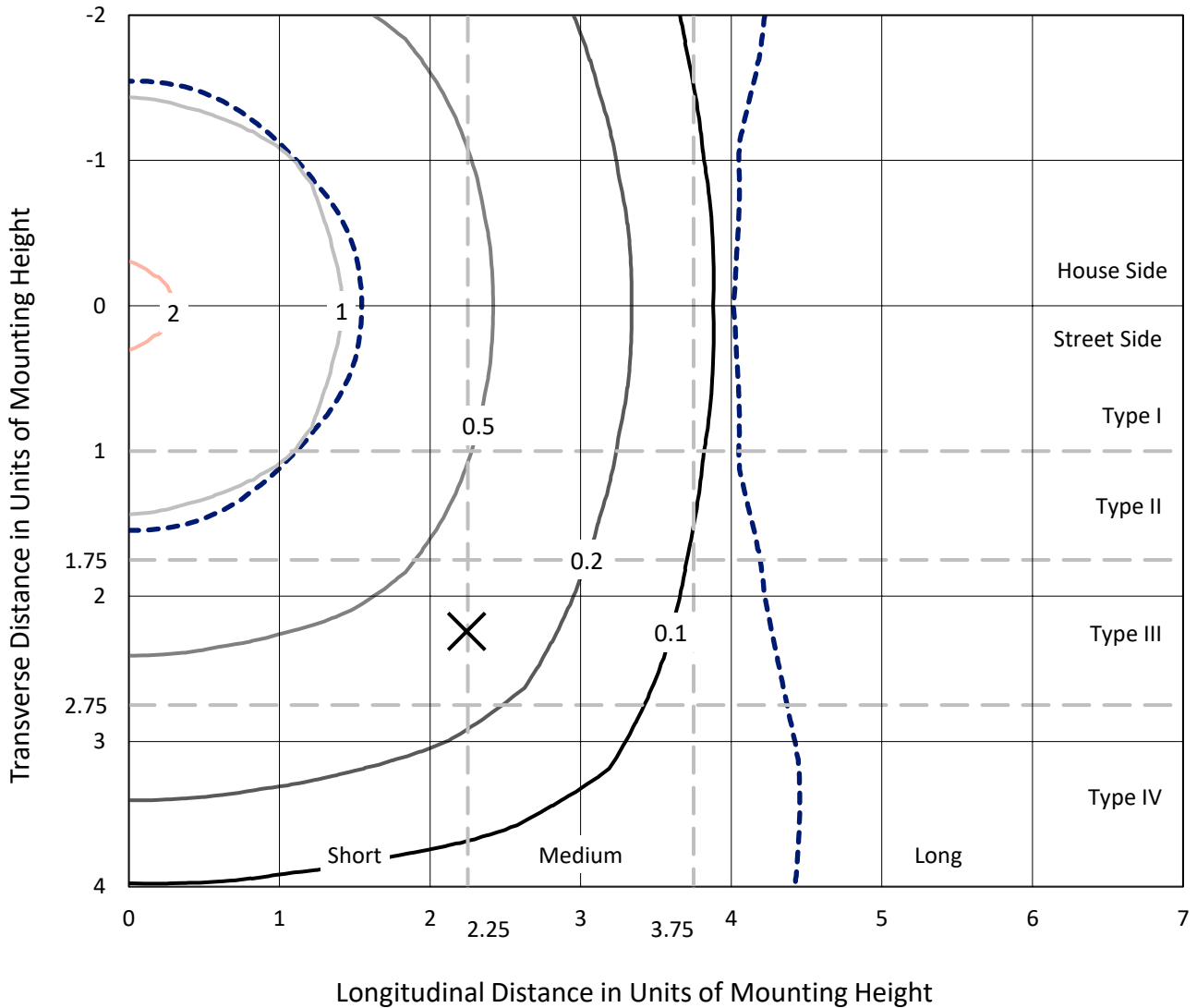
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

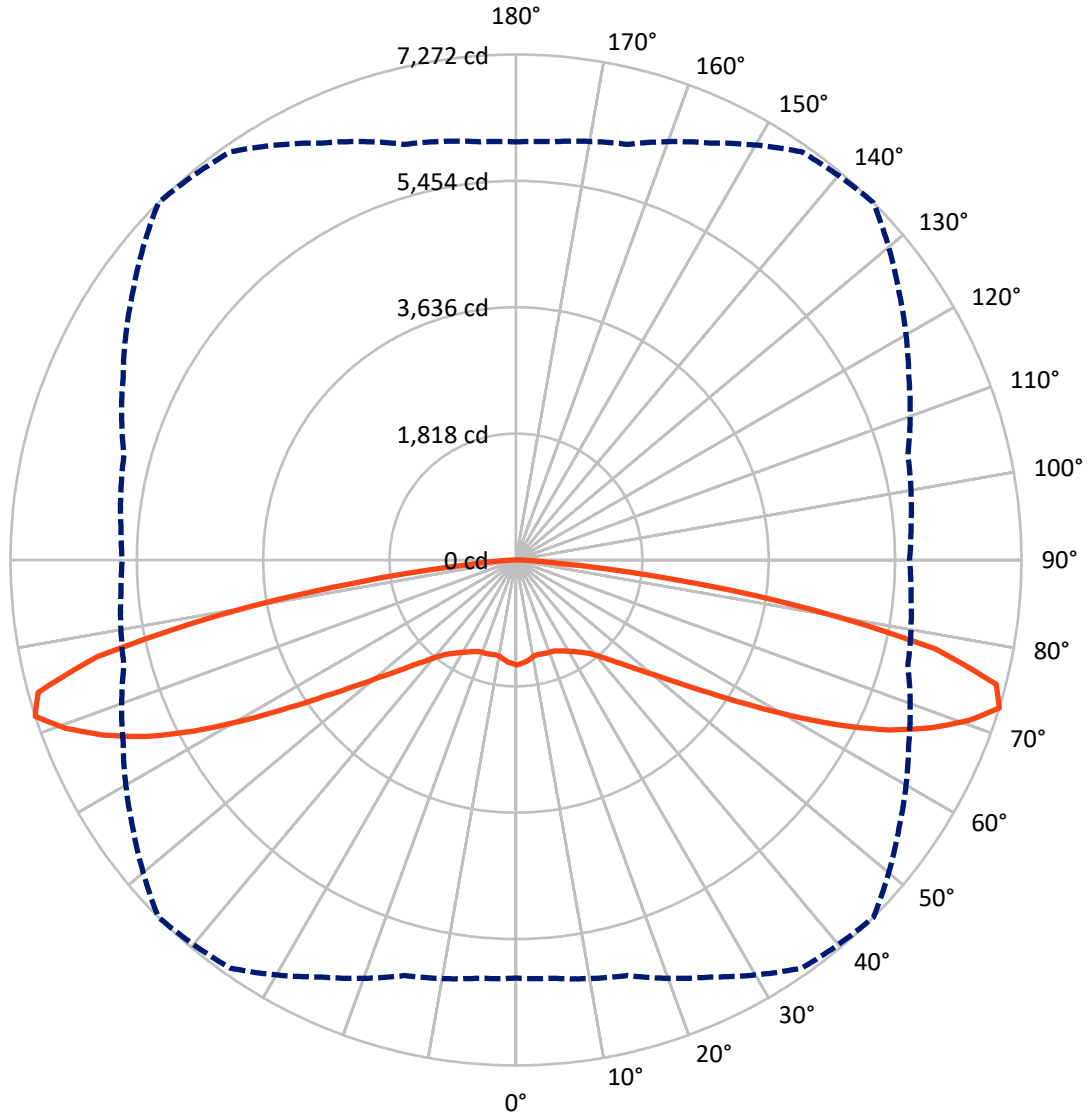
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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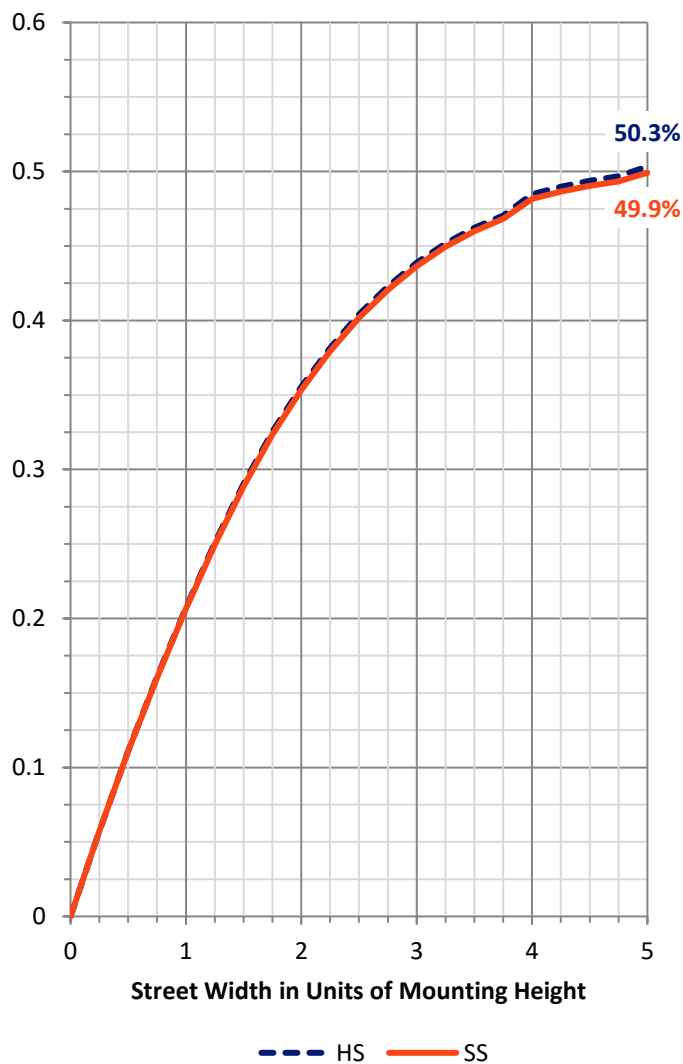
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9165.0	0.0	9165.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9165.0	0.0	9165.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18330.0	0.0	18330.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	0.8
10°-20°	401.1	2.2
20°-30°	671.2	3.7
30°-40°	1031.3	5.6
40°-50°	1707.6	9.3
50°-60°	3035.8	16.6
60°-70°	5311.1	29.0
70°-80°	5403.6	29.5
80°-90°	629.2	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°	18330.0	100.0
0°-180°	18330.0	100.0



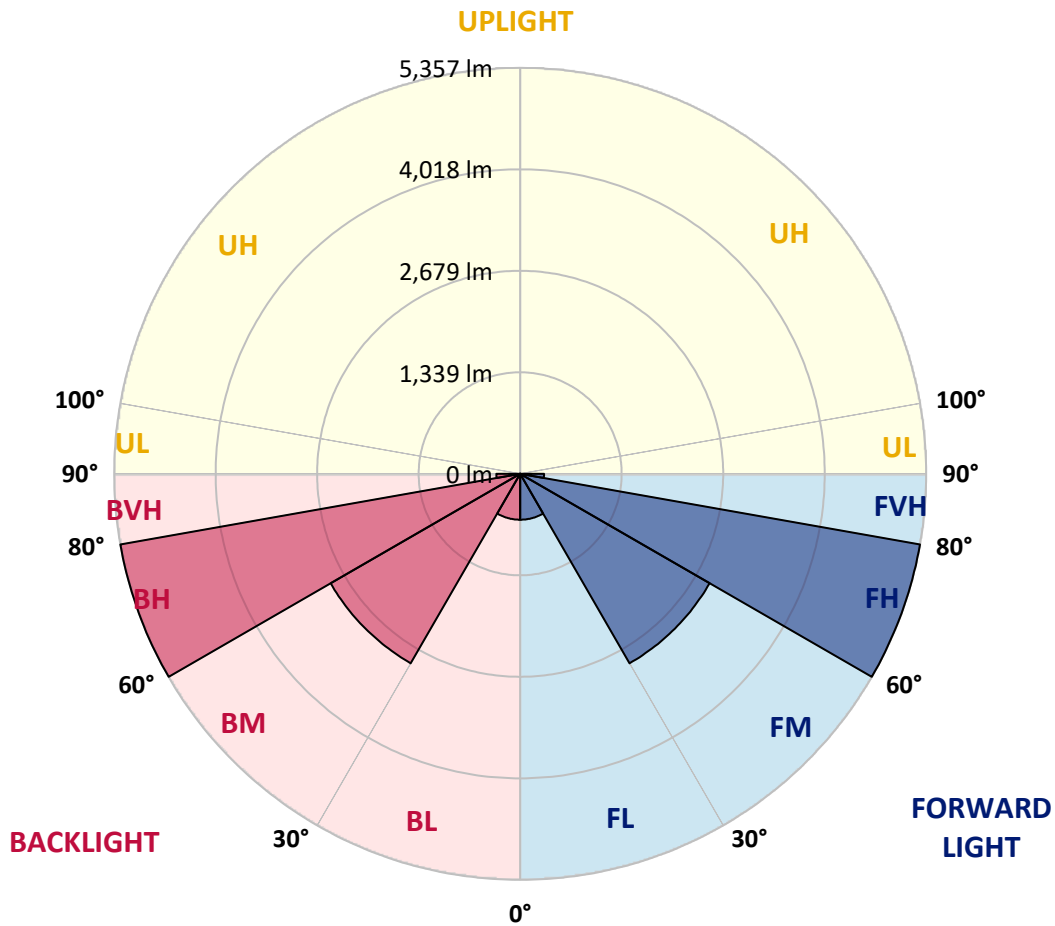
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.7	3.3			
FM (30°-60°)	2887.4	15.8			
FH (60°-80°)	5357.3	29.2			G3/7500
FVH (80°-90°)	314.6	1.7			G3/500
BL (0°-30°)	605.7	3.3	B2/1000		
BM (30°-60°)	2887.4	15.8	B3/5000		
BH (60°-80°)	5357.3	29.2	B5		G3/7500
BVH (80°-90°)	314.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1510.8	1510.8	1510.8	1510.8	1510.8	1510.8	1510.8	1510.8	1510.8	1510.8	1510.8
2.5°	1496.9	1500.4	1493.4	1493.4	1493.4	1489.9	1493.4	1489.9	1493.4	1496.9	1496.9
5°	1482.9	1482.9	1475.9	1475.9	1475.9	1472.4	1475.9	1475.9	1479.4	1482.9	1482.9
7.5°	1451.5	1451.5	1448.0	1444.5	1441.0	1441.0	1444.5	1444.5	1448.0	1451.5	1451.5
10°	1434.1	1430.6	1423.6	1413.1	1409.6	1406.1	1413.1	1420.1	1430.6	1441.0	1437.5
12.5°	1427.1	1423.6	1409.6	1399.2	1392.2	1395.7	1402.7	1409.6	1427.1	1437.5	1434.1
15°	1434.1	1427.1	1409.6	1392.2	1395.7	1402.7	1409.6	1409.6	1430.6	1441.0	1441.0
17.5°	1434.1	1430.6	1409.6	1395.7	1399.2	1409.6	1413.1	1409.6	1427.1	1444.5	1444.5
20°	1437.5	1437.5	1409.6	1399.2	1402.7	1413.1	1416.6	1413.1	1427.1	1448.0	1448.0
22.5°	1444.5	1441.0	1413.1	1406.1	1413.1	1420.1	1423.6	1420.1	1434.1	1451.5	1455.0
25°	1458.5	1451.5	1427.1	1423.6	1437.5	1448.0	1448.0	1441.0	1448.0	1465.5	1465.5
27.5°	1475.9	1472.4	1444.5	1444.5	1462.0	1482.9	1472.4	1458.5	1465.5	1482.9	1482.9
30°	1507.3	1503.8	1475.9	1475.9	1500.4	1524.8	1500.4	1482.9	1493.4	1510.8	1514.3
32.5°	1552.7	1552.7	1528.3	1521.3	1563.2	1573.6	1563.2	1528.3	1535.2	1559.7	1559.7
35°	1629.5	1622.5	1598.0	1594.6	1636.4	1632.9	1629.5	1598.0	1605.0	1632.9	1632.9
37.5°	1730.6	1727.1	1706.2	1695.7	1716.7	1702.7	1709.7	1695.7	1713.2	1734.1	1737.6
40°	1859.7	1856.2	1838.8	1824.8	1831.8	1810.9	1817.9	1824.8	1842.3	1856.2	1859.7
42.5°	2020.2	2020.2	2002.8	1978.4	1967.9	1957.4	1957.4	1971.4	1988.8	2006.3	2006.3
45°	2219.1	2219.1	2198.2	2173.8	2142.4	2124.9	2131.9	2145.8	2166.8	2187.7	2194.7
47.5°	2452.9	2452.9	2425.0	2400.6	2369.2	2348.2	2348.2	2355.2	2386.6	2404.0	2414.5
50°	2714.6	2704.1	2676.2	2651.8	2634.3	2606.4	2609.9	2606.4	2634.3	2658.8	2665.7
52.5°	2986.7	2983.3	2955.3	2948.4	2958.8	2944.9	2944.9	2910.0	2920.4	2934.4	2930.9
55°	3325.2	3314.7	3290.3	3304.3	3346.1	3367.1	3360.1	3304.3	3272.9	3279.8	3276.3
57.5°	3695.0	3684.6	3677.6	3719.5	3813.7	3900.9	3883.5	3754.4	3695.0	3698.5	3702.0
60°	4071.9	4071.9	4092.8	4197.5	4399.9	4542.9	4490.6	4274.3	4169.6	4148.6	4141.7
62.5°	4459.2	4469.6	4515.0	4689.5	5000.0	5237.3	5104.7	4797.6	4640.6	4598.7	4584.8
65°	4909.3	4919.8	4986.0	5202.4	5614.1	5896.7	5669.9	5380.3	5160.5	5073.3	5059.3
67.5°	5561.8	5568.7	5621.1	5830.4	6217.7	6444.5	6210.8	5952.6	5715.3	5614.1	5607.1
70°	6147.9	6154.9	6200.3	6475.9	6831.8	6912.1	6653.9	6325.9	6078.2	5997.9	5984.0
72.5°	6015.4	6039.8	6189.8	6619.0	7166.8	7271.5	6727.2	6235.2	5837.4	5704.8	5663.0
75°	5045.4	5083.7	5321.0	5966.5	6838.8	7135.4	6294.5	5390.8	4797.6	4542.9	4476.6
77.5°	2944.9	3087.9	3496.2	4323.1	5568.7	6172.4	5184.9	3946.3	2948.4	2529.7	2390.1
80°	806.0	882.8	1179.3	1988.8	3492.7	4323.1	3307.7	1810.9	977.0	732.7	680.4
82.5°	254.7	338.5	429.2	572.2	1371.3	2278.4	1228.2	533.8	418.7	345.4	307.0
85°	136.1	146.5	240.8	279.1	411.7	638.5	380.3	279.1	251.2	184.9	174.5
87.5°	69.8	73.3	136.1	136.1	181.4	150.0	164.0	150.0	143.1	90.7	80.3
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)