

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: P236708

Luminaire Tested: **ARCH-L-AF72-150-D-U-5WQ-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-150-D-U-5WQ-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 19982.5 lumens
Efficiency: N/A
Efficacy: 130.6 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

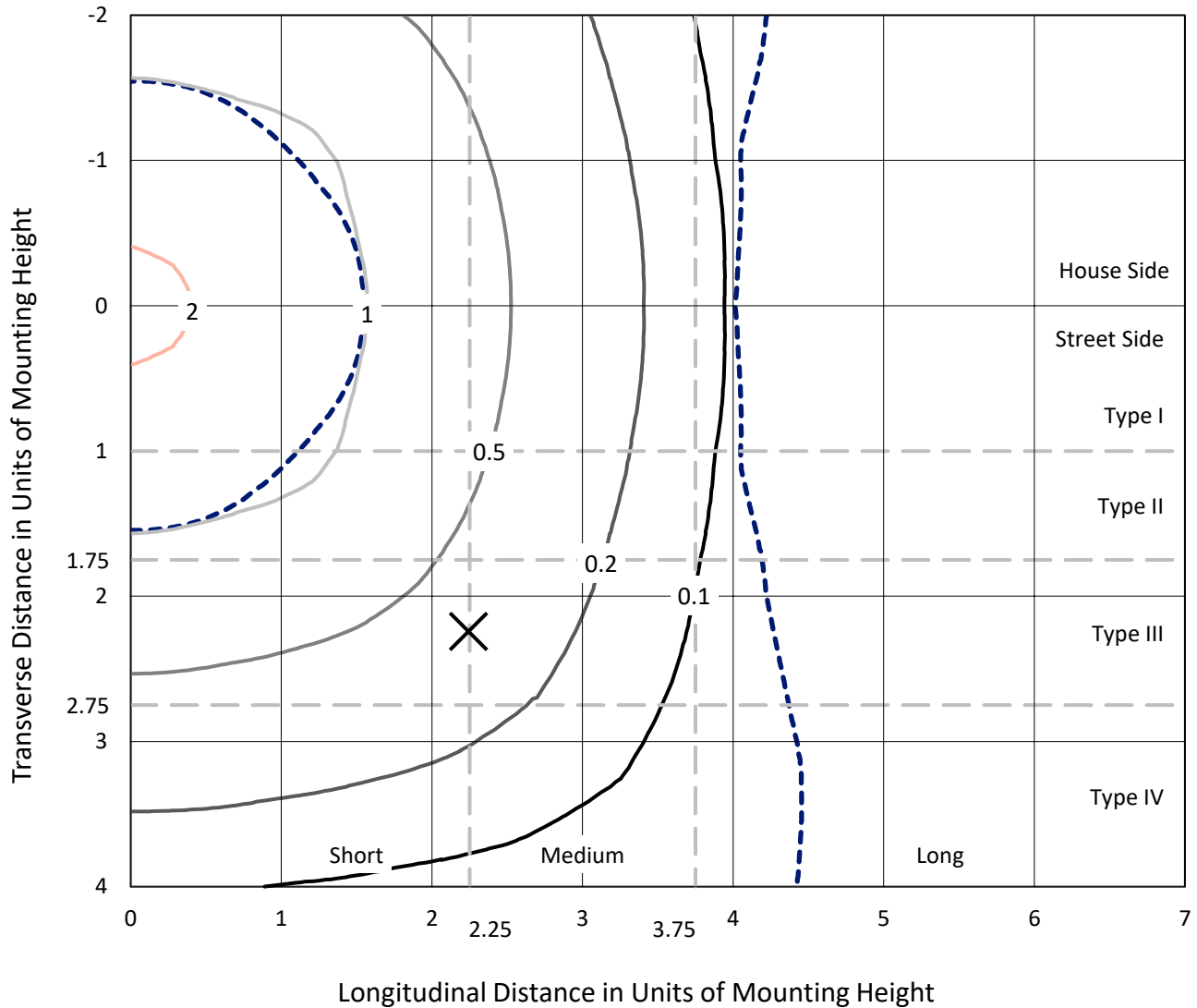
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

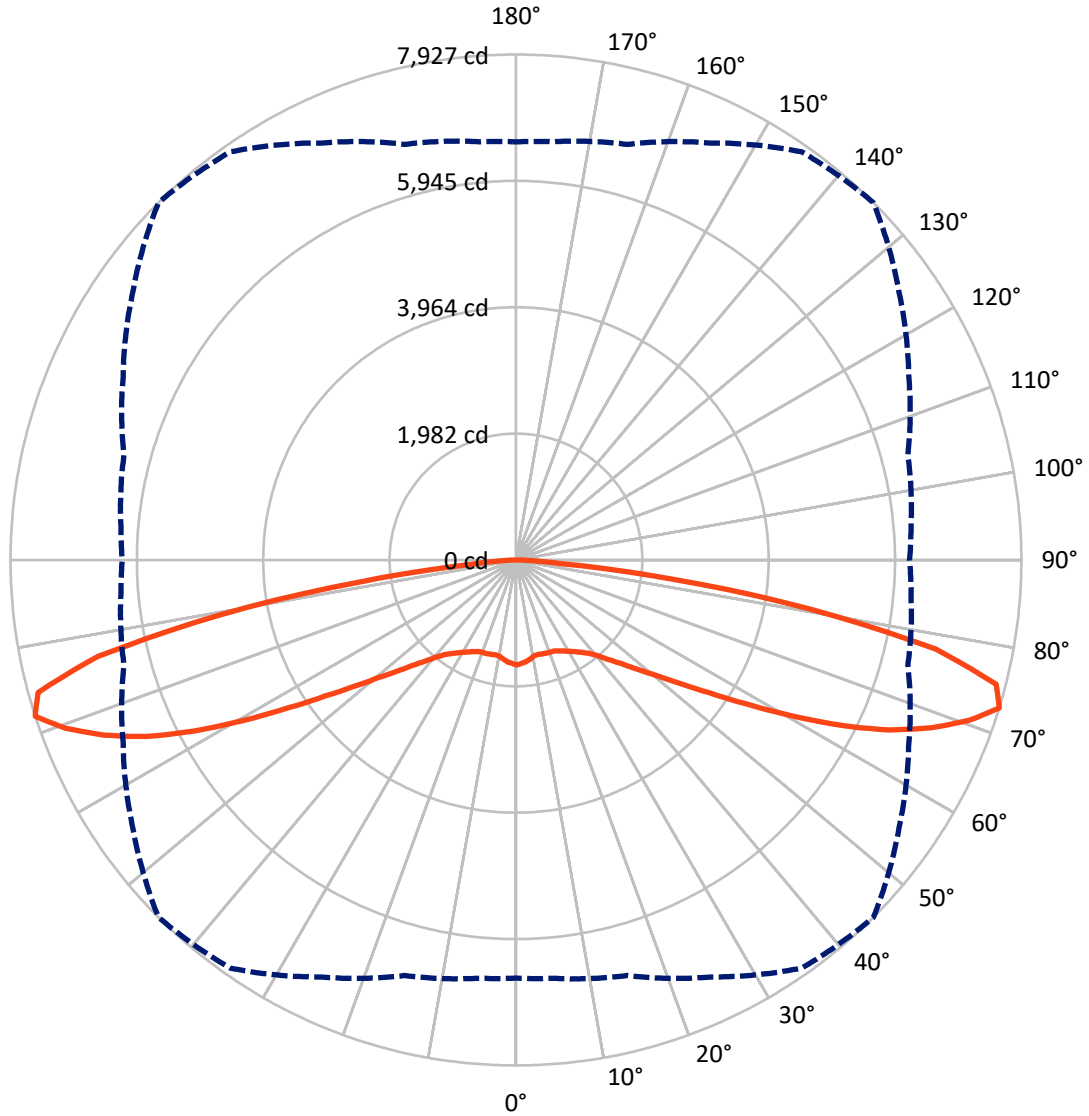
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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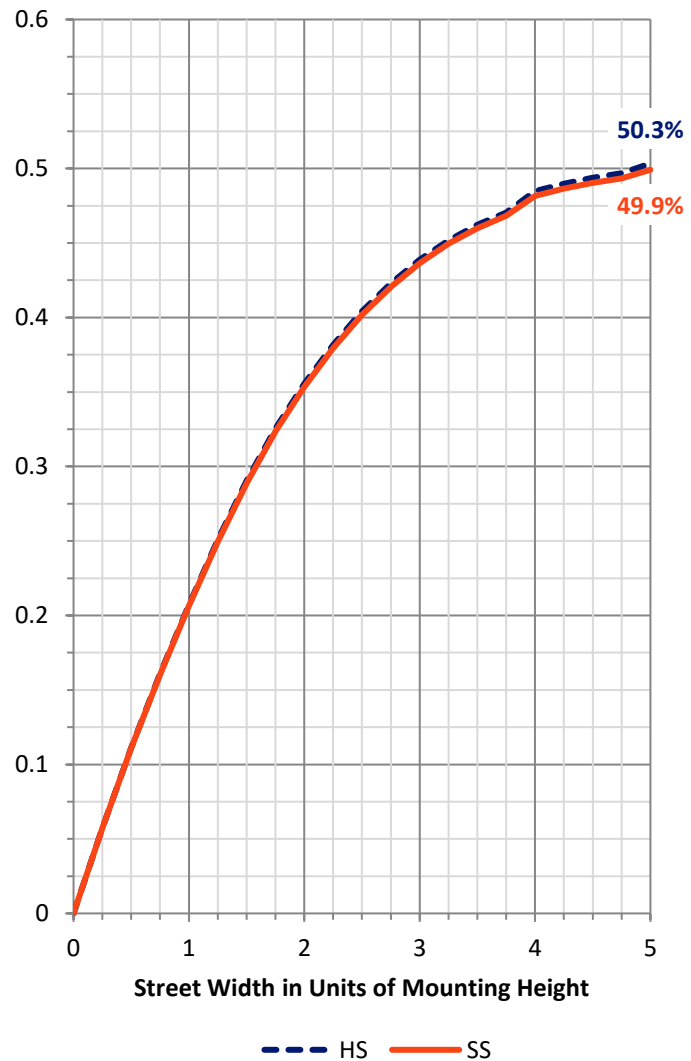
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9991.2	0.0	9991.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9991.2	0.0	9991.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	19982.5	0.0	19982.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	0.8
10°-20°	437.3	2.2
20°-30°	731.7	3.7
30°-40°	1124.3	5.6
40°-50°	1861.6	9.3
50°-60°	3309.5	16.6
60°-70°	5789.9	29.0
70°-80°	5890.7	29.5
80°-90°	685.9	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°	19982.5	100.0
0°-180°	19982.5	100.0



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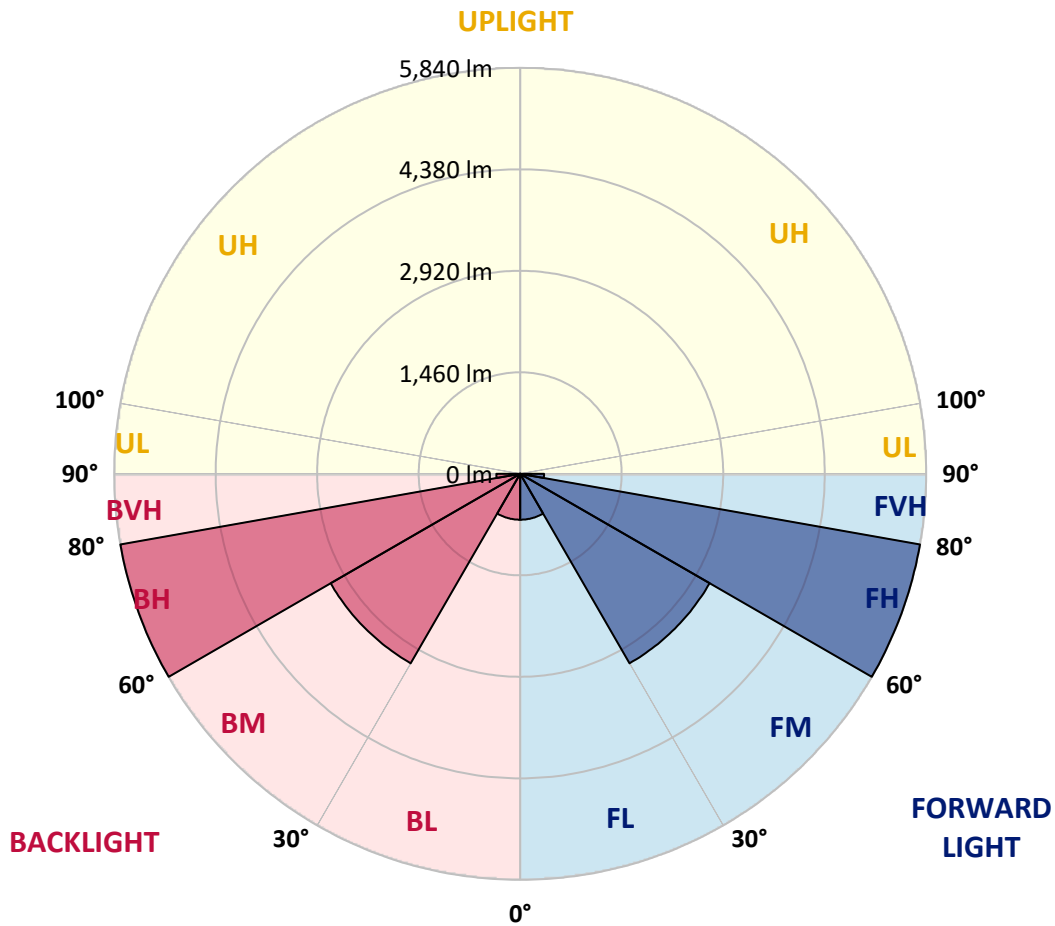
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	660.3	3.3			
FM (30°-60°)	3147.7	15.8			
FH (60°-80°)	5840.3	29.2			G3/7500
FVH (80°-90°)	343.0	1.7			G3/500
BL (0°-30°)	660.3	3.3	B2/1000		
BM (30°-60°)	3147.7	15.8	B3/5000		
BH (60°-80°)	5840.3	29.2	B5		G3/7500
BVH (80°-90°)	343.0	1.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1647.0	1647.0	1647.0	1647.0	1647.0	1647.0	1647.0	1647.0	1647.0	1647.0	1647.0
2.5°	1631.8	1635.6	1628.0	1628.0	1628.0	1624.2	1628.0	1624.2	1628.0	1631.8	1631.8
5°	1616.6	1616.6	1609.0	1609.0	1609.0	1605.1	1609.0	1609.0	1612.7	1616.6	1616.6
7.5°	1582.4	1582.4	1578.6	1574.8	1570.9	1570.9	1574.8	1574.8	1578.6	1582.4	1582.4
10°	1563.3	1559.5	1551.9	1540.5	1536.7	1532.9	1540.5	1548.1	1559.5	1570.9	1567.1
12.5°	1555.8	1551.9	1536.7	1525.3	1517.7	1521.6	1529.1	1536.7	1555.8	1567.1	1563.3
15°	1563.3	1555.8	1536.7	1517.7	1521.6	1529.1	1536.7	1536.7	1559.5	1570.9	1570.9
17.5°	1563.3	1559.5	1536.7	1521.6	1525.3	1536.7	1540.5	1536.7	1555.8	1574.8	1574.8
20°	1567.1	1567.1	1536.7	1525.3	1529.1	1540.5	1544.3	1540.5	1555.8	1578.6	1578.6
22.5°	1574.8	1570.9	1540.5	1532.9	1540.5	1548.1	1551.9	1548.1	1563.3	1582.4	1586.1
25°	1589.9	1582.4	1555.8	1551.9	1567.1	1578.6	1578.6	1570.9	1578.6	1597.6	1597.6
27.5°	1609.0	1605.1	1574.8	1574.8	1593.8	1616.6	1605.1	1589.9	1597.6	1616.6	1616.6
30°	1643.3	1639.4	1609.0	1609.0	1635.6	1662.3	1635.6	1616.6	1628.0	1647.0	1650.8
32.5°	1692.7	1692.7	1665.9	1658.4	1704.1	1715.5	1704.1	1665.9	1673.7	1700.3	1700.3
35°	1776.3	1768.7	1742.1	1738.4	1783.9	1780.2	1776.3	1742.1	1749.7	1780.2	1780.2
37.5°	1886.7	1882.9	1860.0	1848.6	1871.4	1856.2	1863.9	1848.6	1867.7	1890.4	1894.2
40°	2027.5	2023.6	2004.6	1989.4	1996.9	1974.1	1981.8	1989.4	2008.4	2023.6	2027.5
42.5°	2202.3	2202.3	2183.3	2156.7	2145.3	2134.0	2134.0	2149.1	2168.1	2187.2	2187.2
45°	2419.2	2419.2	2396.4	2369.8	2335.5	2316.6	2324.1	2339.3	2362.0	2384.9	2392.6
47.5°	2674.0	2674.0	2643.6	2617.0	2582.8	2560.0	2560.0	2567.5	2601.8	2620.8	2632.2
50°	2959.3	2948.0	2917.4	2890.9	2871.8	2841.4	2845.2	2841.4	2871.8	2898.4	2906.1
52.5°	3256.0	3252.2	3221.7	3214.2	3225.6	3210.4	3210.4	3172.4	3183.7	3198.9	3195.2
55°	3625.0	3613.5	3586.9	3602.2	3647.7	3670.6	3663.0	3602.2	3567.9	3575.5	3571.6
57.5°	4028.2	4016.7	4009.2	4054.8	4157.6	4252.6	4233.6	4092.9	4028.2	4032.0	4035.7
60°	4438.9	4438.9	4461.8	4575.9	4796.5	4952.5	4895.4	4659.6	4545.5	4522.7	4515.0
62.5°	4861.2	4872.6	4922.0	5112.2	5450.7	5709.5	5564.9	5230.1	5058.9	5013.4	4998.1
65°	5351.8	5363.2	5435.5	5671.3	6120.1	6428.3	6181.1	5865.4	5625.8	5530.6	5515.4
67.5°	6063.2	6070.8	6127.8	6356.0	6778.2	7025.5	6770.7	6489.1	6230.5	6120.1	6112.6
70°	6702.2	6709.8	6759.3	7059.7	7447.6	7535.2	7253.7	6896.1	6626.1	6538.6	6523.5
72.5°	6557.6	6584.3	6747.9	7215.7	7812.9	7927.0	7333.6	6797.2	6363.7	6219.1	6173.4
75°	5500.2	5542.0	5800.7	6504.4	7455.3	7778.6	6861.9	5876.7	5230.1	4952.5	4880.2
77.5°	3210.4	3366.3	3811.3	4712.8	6070.8	6728.8	5652.3	4302.0	3214.2	2757.7	2605.5
80°	878.7	962.3	1285.7	2168.1	3807.5	4712.8	3606.0	1974.1	1065.1	798.8	741.8
82.5°	277.6	369.0	467.8	623.8	1494.8	2483.8	1338.9	582.1	456.4	376.6	334.8
85°	148.4	159.7	262.4	304.3	448.8	696.1	414.6	304.3	273.9	201.6	190.2
87.5°	76.1	79.9	148.4	148.4	197.8	163.6	178.7	163.6	155.9	98.9	87.5
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)