

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: P399416

Luminaire Tested: **ARCH-L-PA3-140-730-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-140-730-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21103 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

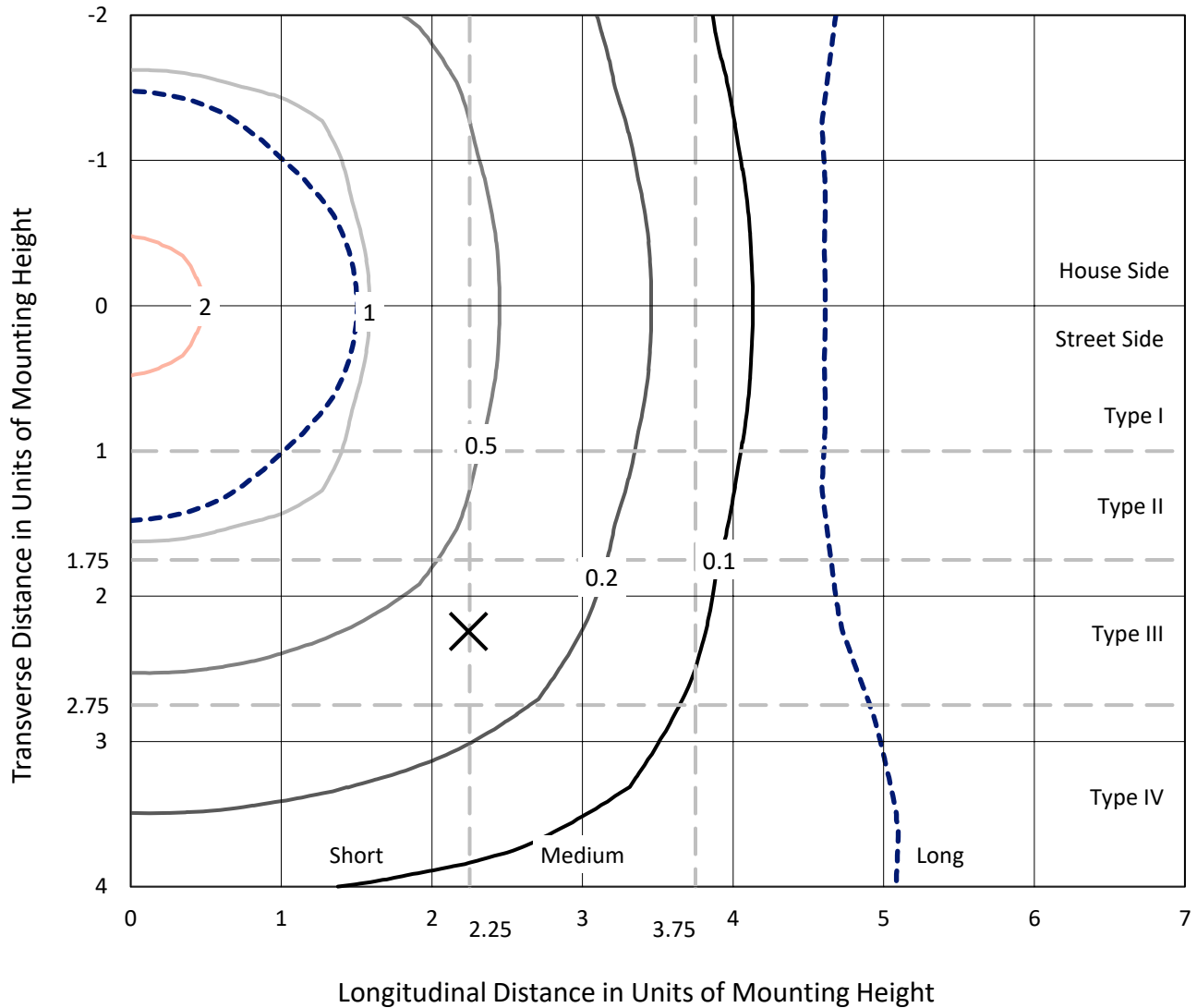
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

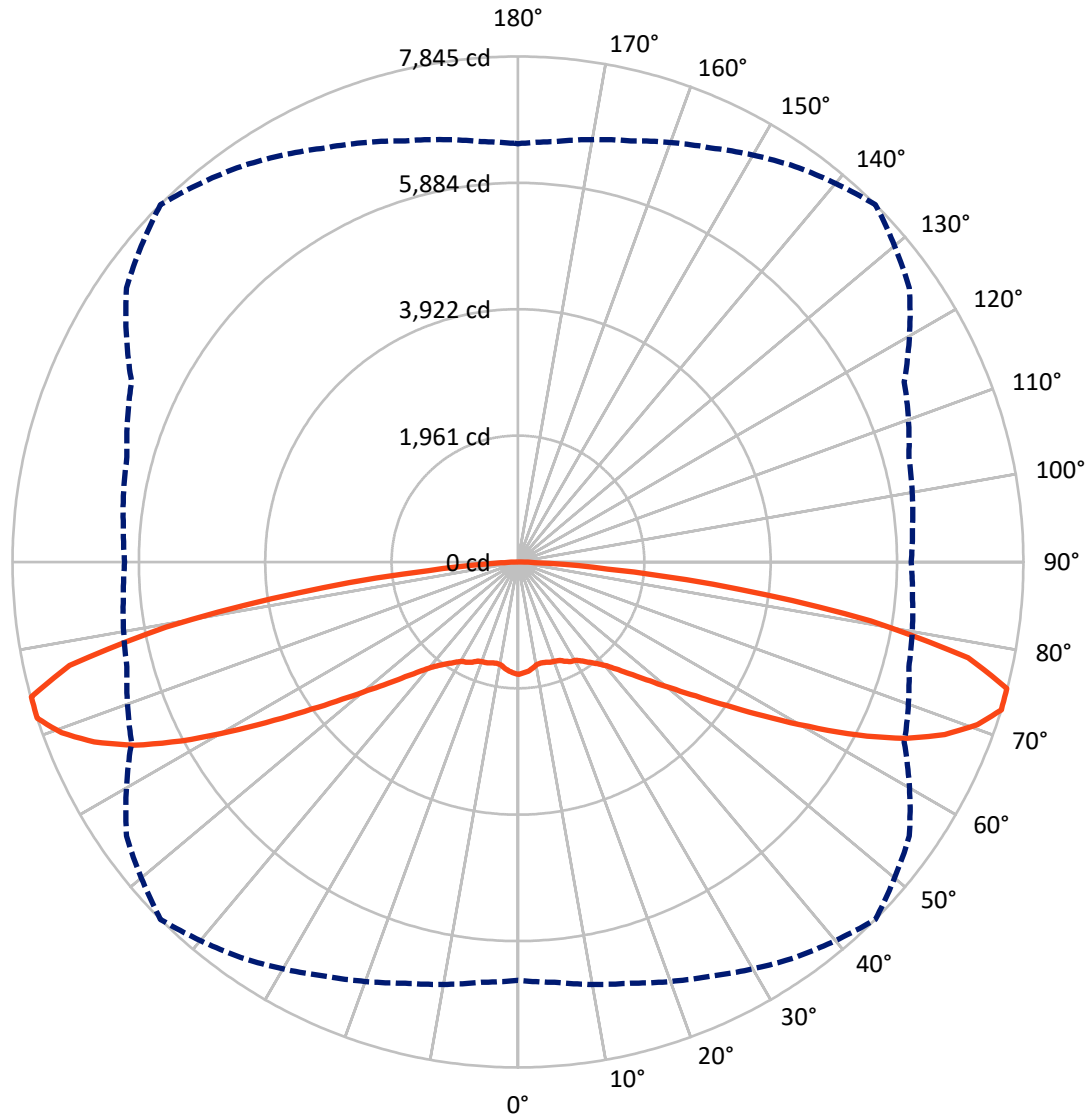
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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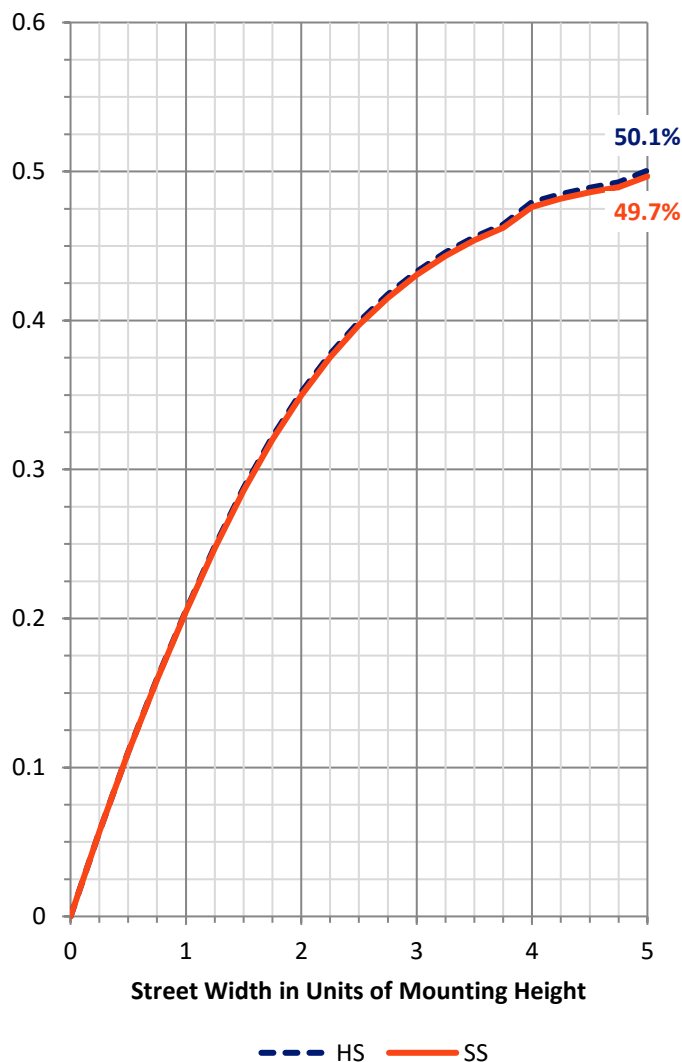
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10551.5	0.0	10551.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10551.5	0.0	10551.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21103.0	0.0	21103.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	0.8
10°-20°	464.8	2.2
20°-30°	789.8	3.7
30°-40°	1204.7	5.7
40°-50°	1983.6	9.4
50°-60°	3463.9	16.4
60°-70°	5807.4	27.5
70°-80°	6215.1	29.5
80°-90°	1013.7	4.8
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°	21103.0	100.0
0°-180°	21103.0	100.0



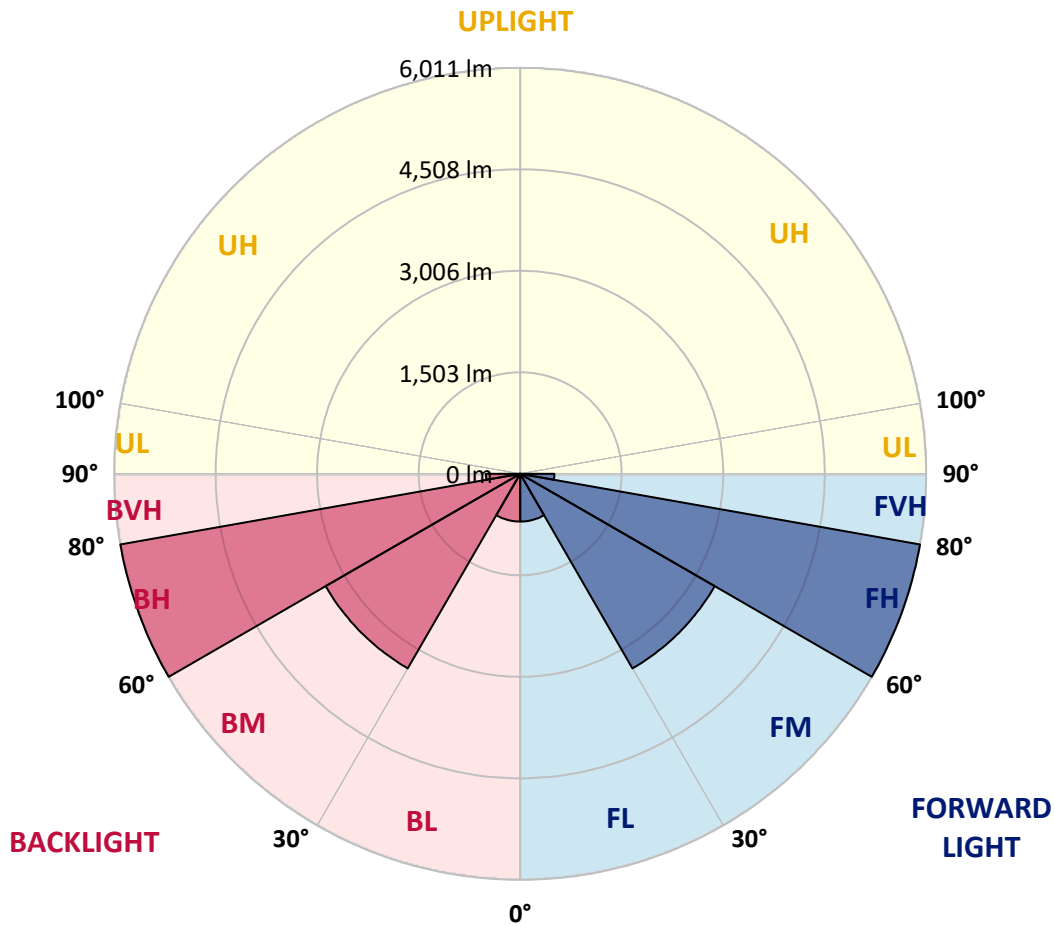
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	707.4	3.4			
FM (30°-60°)	3326.1	15.8			
FH (60°-80°)	6011.2	28.5			G3/7500
FVH (80°-90°)	506.8	2.4			G4/750
BL (0°-30°)	707.4	3.4	B2/1000		
BM (30°-60°)	3326.1	15.8	B3/5000		
BH (60°-80°)	6011.2	28.5	B5		G3/7500
BVH (80°-90°)	506.8	2.4			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3
2.5°	1735.5	1735.5	1735.5	1732.8	1727.4	1724.7	1719.3	1722.0	1722.0	1722.0	1722.0
5°	1714.0	1714.0	1711.3	1708.6	1703.2	1700.5	1695.1	1700.5	1700.5	1700.5	1700.5
7.5°	1673.5	1676.2	1676.2	1673.5	1665.4	1662.8	1654.7	1657.4	1657.4	1660.1	1657.4
10°	1652.0	1652.0	1649.3	1635.8	1622.3	1616.9	1614.2	1622.3	1630.4	1638.5	1638.5
12.5°	1652.0	1652.0	1646.6	1625.0	1606.2	1606.2	1606.2	1616.9	1633.1	1649.3	1652.0
15°	1660.1	1660.1	1649.3	1625.0	1614.2	1616.9	1616.9	1627.7	1646.6	1668.1	1670.8
17.5°	1665.4	1665.4	1652.0	1627.7	1627.7	1635.8	1630.4	1638.5	1657.4	1681.6	1684.3
20°	1673.5	1673.5	1654.7	1635.8	1635.8	1643.9	1643.9	1652.0	1668.1	1692.4	1695.1
22.5°	1689.7	1687.0	1668.1	1652.0	1652.0	1657.4	1662.8	1673.5	1687.0	1708.6	1714.0
25°	1708.6	1708.6	1692.4	1689.7	1695.1	1708.6	1705.9	1703.2	1708.6	1727.4	1735.5
27.5°	1719.3	1719.3	1708.6	1716.7	1738.2	1749.0	1735.5	1724.7	1724.7	1743.6	1746.3
30°	1754.4	1751.7	1740.9	1746.3	1765.2	1770.6	1762.5	1749.0	1757.1	1778.6	1781.3
32.5°	1813.7	1813.7	1797.5	1797.5	1811.0	1832.5	1805.6	1797.5	1808.3	1832.5	1835.2
35°	1905.3	1905.3	1883.7	1873.0	1883.7	1913.4	1873.0	1870.3	1889.1	1916.1	1918.8
37.5°	2021.2	2021.2	2007.7	1980.8	1983.4	2002.3	1967.3	1964.6	1999.6	2029.3	2029.3
40°	2166.7	2174.8	2161.3	2129.0	2118.2	2120.9	2093.9	2096.6	2137.1	2172.1	2172.1
42.5°	2347.3	2352.6	2331.1	2306.8	2293.4	2285.3	2258.3	2263.7	2312.2	2358.0	2358.0
45°	2565.5	2568.2	2546.7	2517.0	2500.9	2495.5	2468.5	2482.0	2535.9	2584.4	2581.7
47.5°	2810.8	2813.5	2791.9	2762.3	2751.5	2759.6	2732.6	2732.6	2781.1	2821.6	2816.2
50°	3088.4	3093.7	3069.5	3056.0	3047.9	3069.5	3037.2	3007.5	3039.8	3080.3	3074.9
52.5°	3395.6	3409.1	3392.9	3398.3	3427.9	3454.9	3401.0	3336.3	3352.5	3379.4	3371.3
55°	3767.5	3783.6	3789.0	3807.9	3886.0	3931.9	3842.9	3735.1	3727.0	3729.7	3716.3
57.5°	4185.2	4196.0	4231.0	4274.1	4435.8	4508.6	4368.4	4182.5	4123.2	4088.2	4080.1
60°	4605.6	4624.5	4710.7	4799.6	5047.6	5179.6	4964.0	4651.4	4524.7	4460.1	4446.6
62.5°	5028.7	5066.4	5206.6	5357.5	5718.6	5915.3	5583.8	5131.1	4947.8	4867.0	4845.4
65°	5519.2	5565.0	5734.8	5926.1	6327.6	6605.2	6203.7	5627.0	5430.2	5322.4	5295.5
67.5°	6093.2	6141.7	6279.1	6492.0	6872.0	7144.2	6788.5	6133.6	5877.6	5740.1	5718.6
70°	6564.8	6607.9	6756.1	6971.7	7254.7	7564.6	7225.0	6537.8	6306.1	6209.1	6195.6
72.5°	6492.0	6548.6	6766.9	7090.3	7494.5	7844.9	7416.4	6616.0	6281.8	6147.1	6104.0
75°	5670.1	5732.1	5990.8	6575.6	7314.0	7836.8	7138.8	6095.9	5702.4	5589.2	5567.7
77.5°	3754.0	3813.3	4249.9	5171.5	6386.9	7141.5	6300.7	5106.8	4473.5	4201.4	4185.2
80°	1517.2	1592.7	2010.4	2988.6	4527.4	5551.5	4673.0	3268.9	2204.4	1778.6	1692.4
82.5°	353.0	420.4	611.7	1102.2	2317.6	3457.6	2519.7	1220.8	708.8	503.9	452.7
85°	148.2	150.9	261.4	358.4	724.9	1396.0	824.6	444.7	361.1	264.1	258.7
87.5°	56.6	59.3	126.7	150.9	231.8	264.1	280.3	229.1	212.9	132.1	126.7
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)