

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: P399605

Luminaire Tested: **ARCH-L-PA3-160-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399605
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-PA3-160-830-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20420 lumens
Efficiency: N/A
Efficacy: 126.0 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

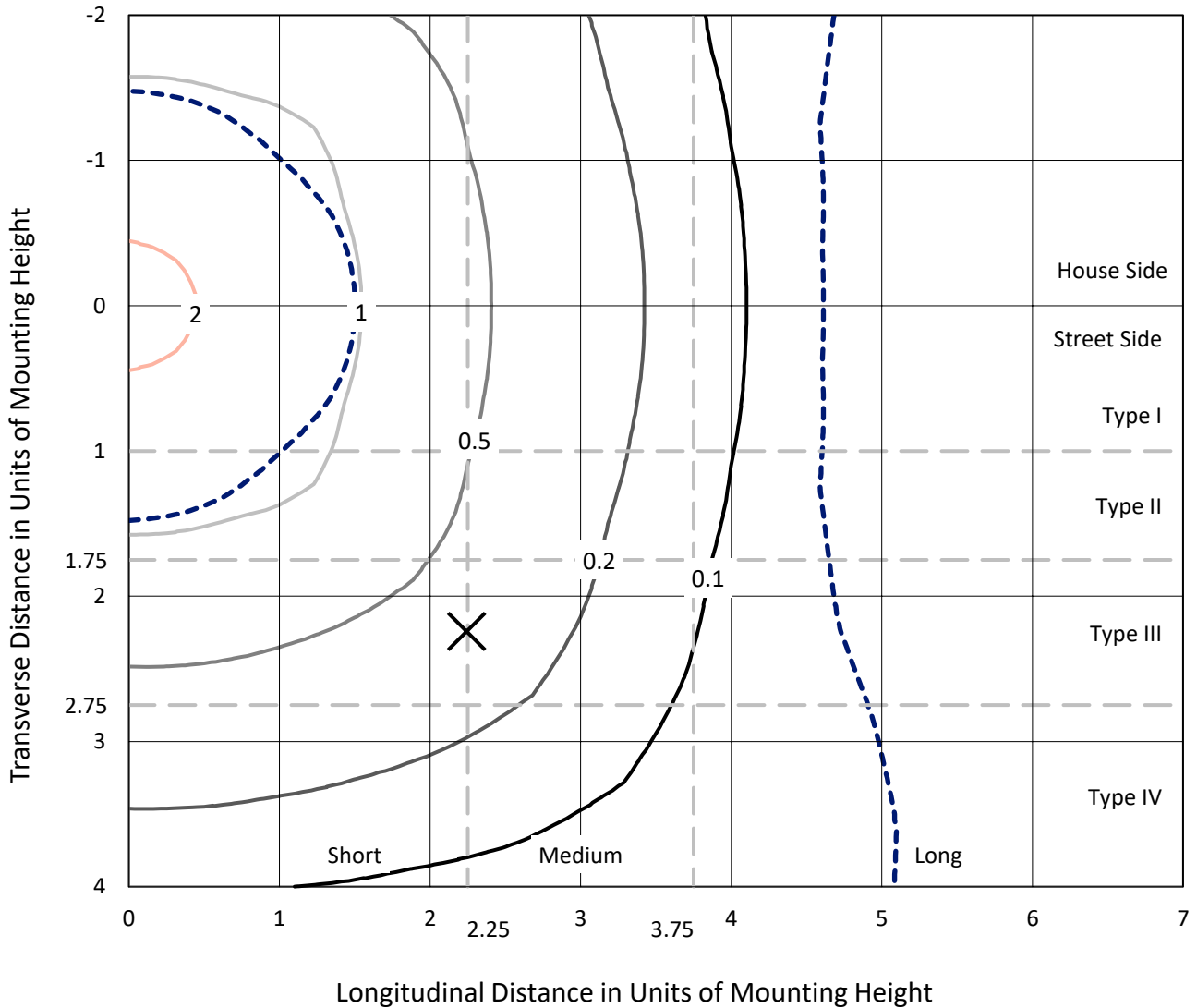
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

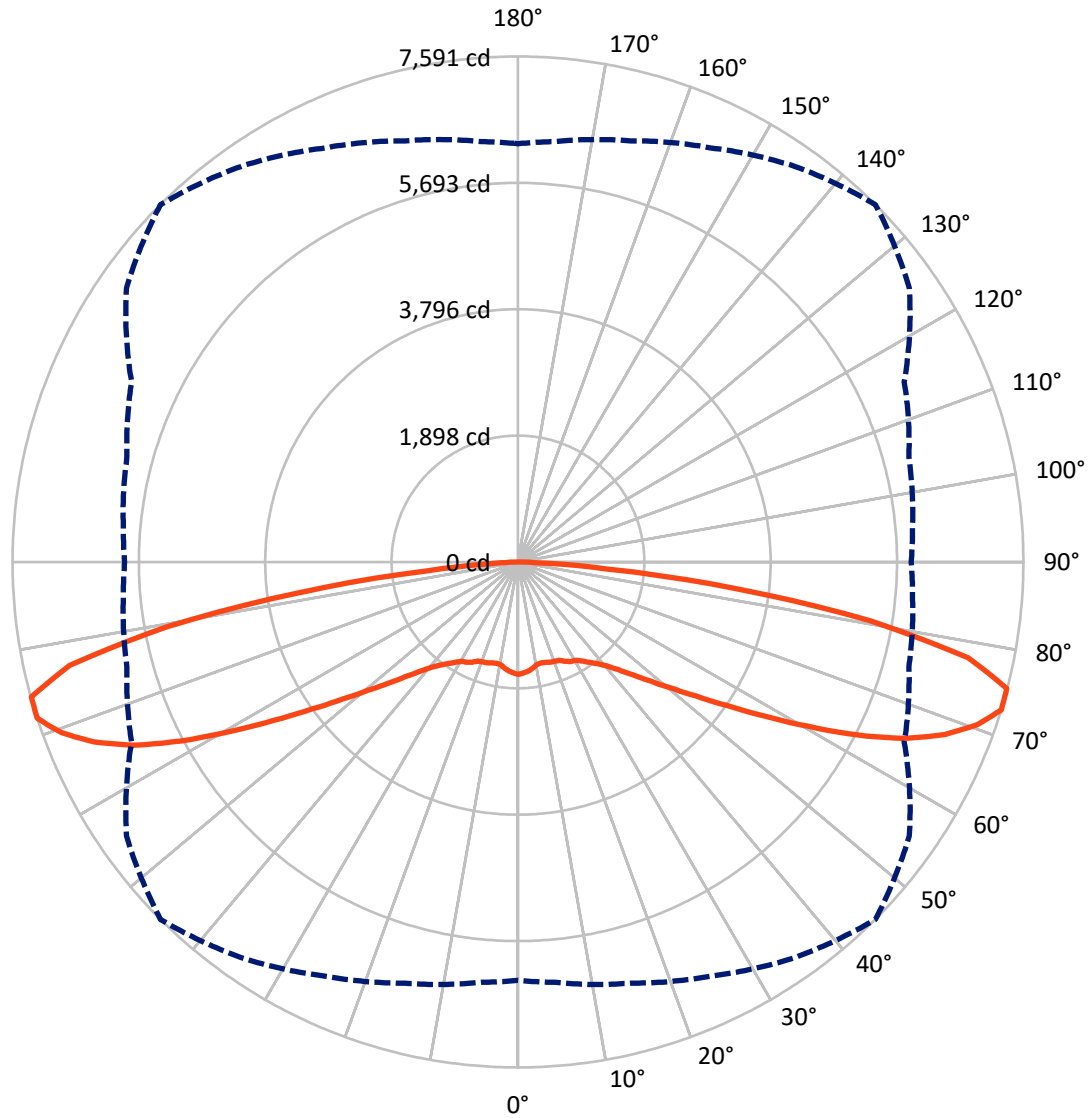
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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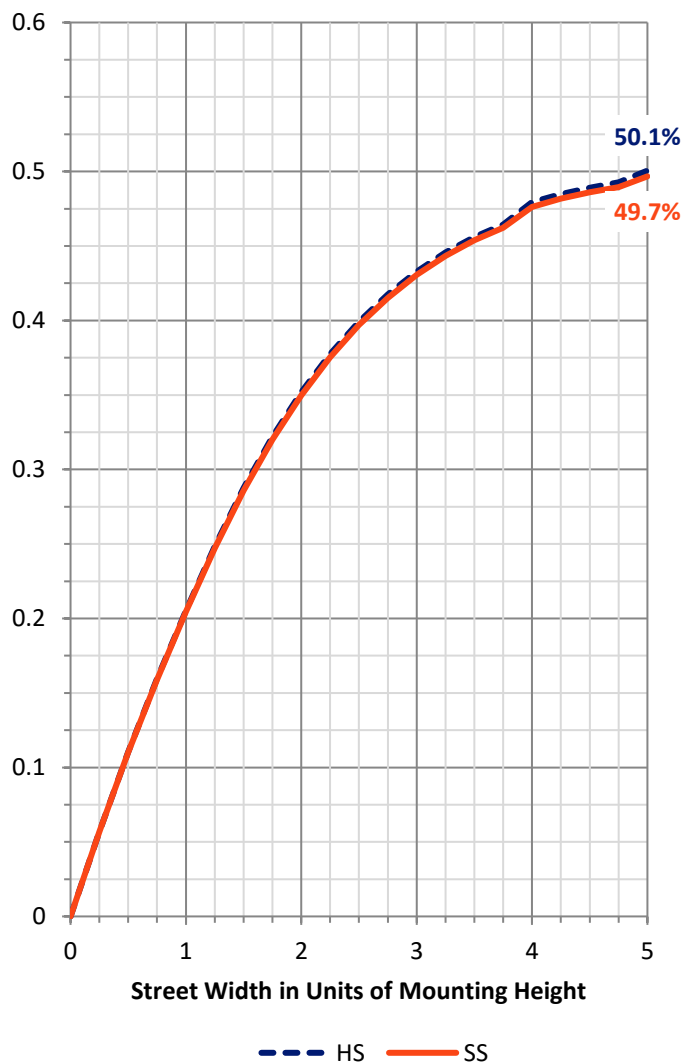
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10210.0	0.0	10210.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10210.0	0.0	10210.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20420.0	0.0	20420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	0.8
10°-20°	449.8	2.2
20°-30°	764.2	3.7
30°-40°	1165.7	5.7
40°-50°	1919.4	9.4
50°-60°	3351.8	16.4
60°-70°	5619.4	27.5
70°-80°	6013.9	29.5
80°-90°	980.9	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°	20420.0	100.0
0°-180°	20420.0	100.0

Coefficient of Utilization



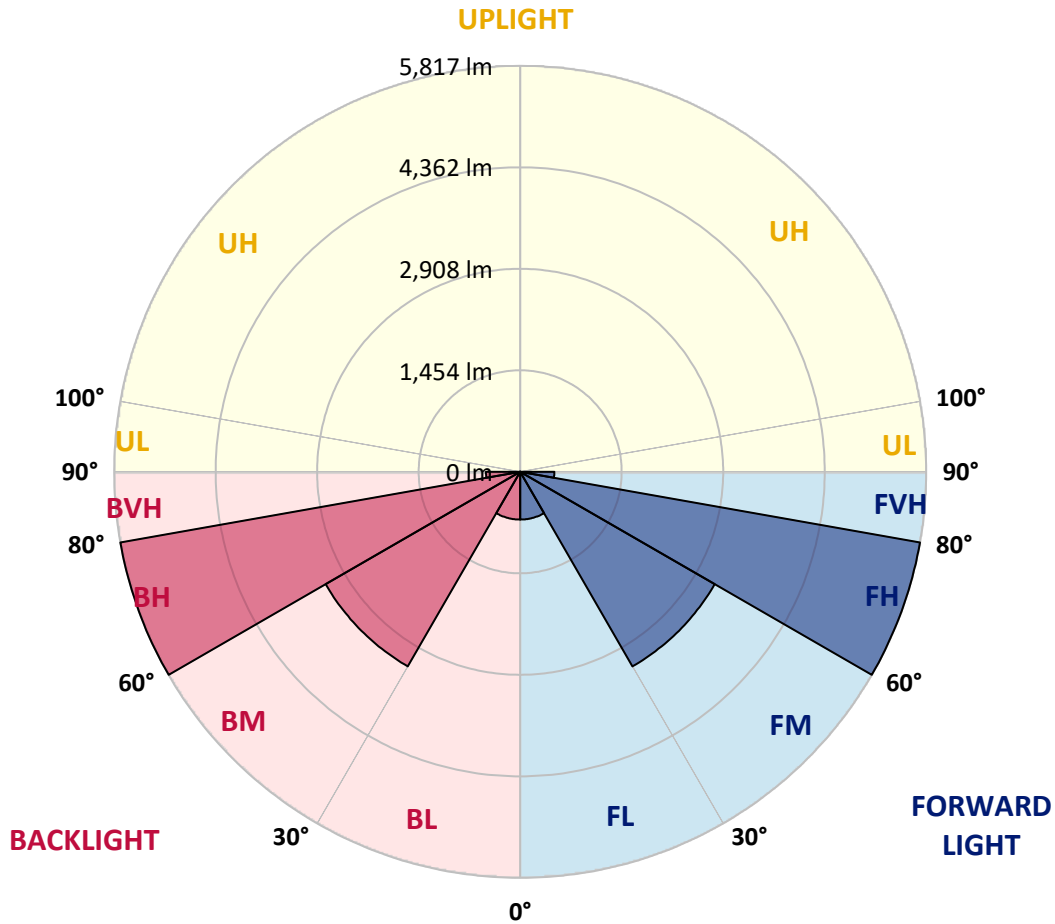
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	684.5	3.4			
FM (30°-60°)	3218.4	15.8			
FH (60°-80°)	5816.7	28.5			G3/7500
FVH (80°-90°)	490.4	2.4			G3/500
BL (0°-30°)	684.5	3.4	B2/1000		
BM (30°-60°)	3218.4	15.8	B3/5000		
BH (60°-80°)	5816.7	28.5	B5		G3/7500
BVH (80°-90°)	490.4	2.4			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°	1689.8	1689.8	1689.8	1689.8	1689.8	1689.8	1689.8	1689.8	1689.8	1689.8	1689.8
2.5°	1679.3	1679.3	1679.3	1676.7	1671.5	1668.9	1663.7	1666.3	1666.3	1666.3	1666.3
5°	1658.5	1658.5	1655.9	1653.3	1648.1	1645.4	1640.2	1645.4	1645.4	1645.4	1645.4
7.5°	1619.4	1622.0	1622.0	1619.4	1611.5	1608.9	1601.1	1603.7	1603.7	1606.3	1603.7
10°	1598.5	1598.5	1595.9	1582.9	1569.8	1564.6	1562.0	1569.8	1577.6	1585.5	1585.5
12.5°	1598.5	1598.5	1593.3	1572.4	1554.2	1554.2	1554.2	1564.6	1580.3	1595.9	1598.5
15°	1606.3	1606.3	1595.9	1572.4	1562.0	1564.6	1564.6	1575.0	1593.3	1614.2	1616.8
17.5°	1611.5	1611.5	1598.5	1575.0	1575.0	1582.9	1577.6	1585.5	1603.7	1627.2	1629.8
20°	1619.4	1619.4	1601.1	1582.9	1582.9	1590.7	1590.7	1598.5	1614.2	1637.6	1640.2
22.5°	1635.0	1632.4	1614.2	1598.5	1598.5	1603.7	1608.9	1619.4	1632.4	1653.3	1658.5
25°	1653.3	1653.3	1637.6	1635.0	1640.2	1653.3	1650.7	1648.1	1653.3	1671.5	1679.3
27.5°	1663.7	1663.7	1653.3	1661.1	1682.0	1692.4	1679.3	1668.9	1668.9	1687.2	1689.8
30°	1697.6	1695.0	1684.6	1689.8	1708.0	1713.2	1705.4	1692.4	1700.2	1721.1	1723.7
32.5°	1755.0	1755.0	1739.3	1739.3	1752.4	1773.2	1747.1	1739.3	1749.8	1773.2	1775.8
35°	1843.6	1843.6	1822.8	1812.3	1822.8	1851.5	1812.3	1809.7	1828.0	1854.1	1856.7
37.5°	1955.8	1955.8	1942.7	1916.6	1919.3	1937.5	1903.6	1901.0	1934.9	1963.6	1963.6
40°	2096.6	2104.4	2091.4	2060.1	2049.6	2052.2	2026.2	2028.8	2067.9	2101.8	2101.8
42.5°	2271.3	2276.5	2255.6	2232.2	2219.1	2211.3	2185.2	2190.5	2237.4	2281.7	2281.7
45°	2482.5	2485.1	2464.3	2435.6	2419.9	2414.7	2388.6	2401.7	2453.8	2500.8	2498.2
47.5°	2719.8	2722.4	2701.6	2672.9	2662.4	2670.3	2644.2	2644.2	2691.1	2730.2	2725.0
50°	2988.4	2993.6	2970.1	2957.1	2949.3	2970.1	2938.9	2910.2	2941.5	2980.6	2975.4
52.5°	3285.7	3298.7	3283.1	3288.3	3317.0	3343.0	3290.9	3228.3	3244.0	3270.0	3262.2
55°	3645.5	3661.2	3666.4	3684.7	3760.3	3804.6	3718.6	3614.2	3606.4	3609.0	3596.0
57.5°	4049.7	4060.2	4094.1	4135.8	4292.2	4362.7	4227.1	4047.1	3989.8	3955.9	3948.0
60°	4456.5	4474.8	4558.2	4644.3	4884.2	5012.0	4803.3	4500.9	4378.3	4315.7	4302.7
62.5°	4865.9	4902.4	5038.0	5184.1	5533.5	5723.9	5403.1	4965.0	4787.7	4709.5	4688.6
65°	5340.5	5384.9	5549.1	5734.3	6122.8	6391.4	6002.9	5444.8	5254.5	5150.2	5124.1
67.5°	5896.0	5942.9	6075.9	6281.9	6649.6	6913.0	6568.8	5935.1	5687.4	5554.4	5533.5
70°	6352.3	6394.0	6537.5	6746.1	7019.9	7319.8	6991.2	6326.2	6102.0	6008.1	5995.1
72.5°	6281.9	6336.7	6547.9	6860.8	7252.0	7591.0	7176.3	6401.9	6078.5	5948.1	5906.4
75°	5486.6	5546.5	5796.9	6362.7	7077.2	7583.1	6907.7	5898.6	5517.9	5408.3	5387.5
77.5°	3632.5	3689.9	4112.3	5004.1	6180.2	6910.4	6096.8	4941.6	4328.8	4065.4	4049.7
80°	1468.1	1541.1	1945.3	2891.9	4380.9	5371.8	4521.7	3163.1	2133.1	1721.1	1637.6
82.5°	341.6	406.8	591.9	1066.5	2242.6	3345.7	2438.2	1181.3	685.8	487.6	438.1
85°	143.4	146.0	252.9	346.8	701.5	1350.8	798.0	430.3	349.4	255.6	250.3
87.5°	54.8	57.4	122.6	146.0	224.3	255.6	271.2	221.7	206.0	127.8	122.6
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)