

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: P399479

Luminaire Tested: **ARCH-L-PA3-150-727-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399479
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-PA3-150-727-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 20531 lumens
Efficiency: N/A
Efficacy: 134.2 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

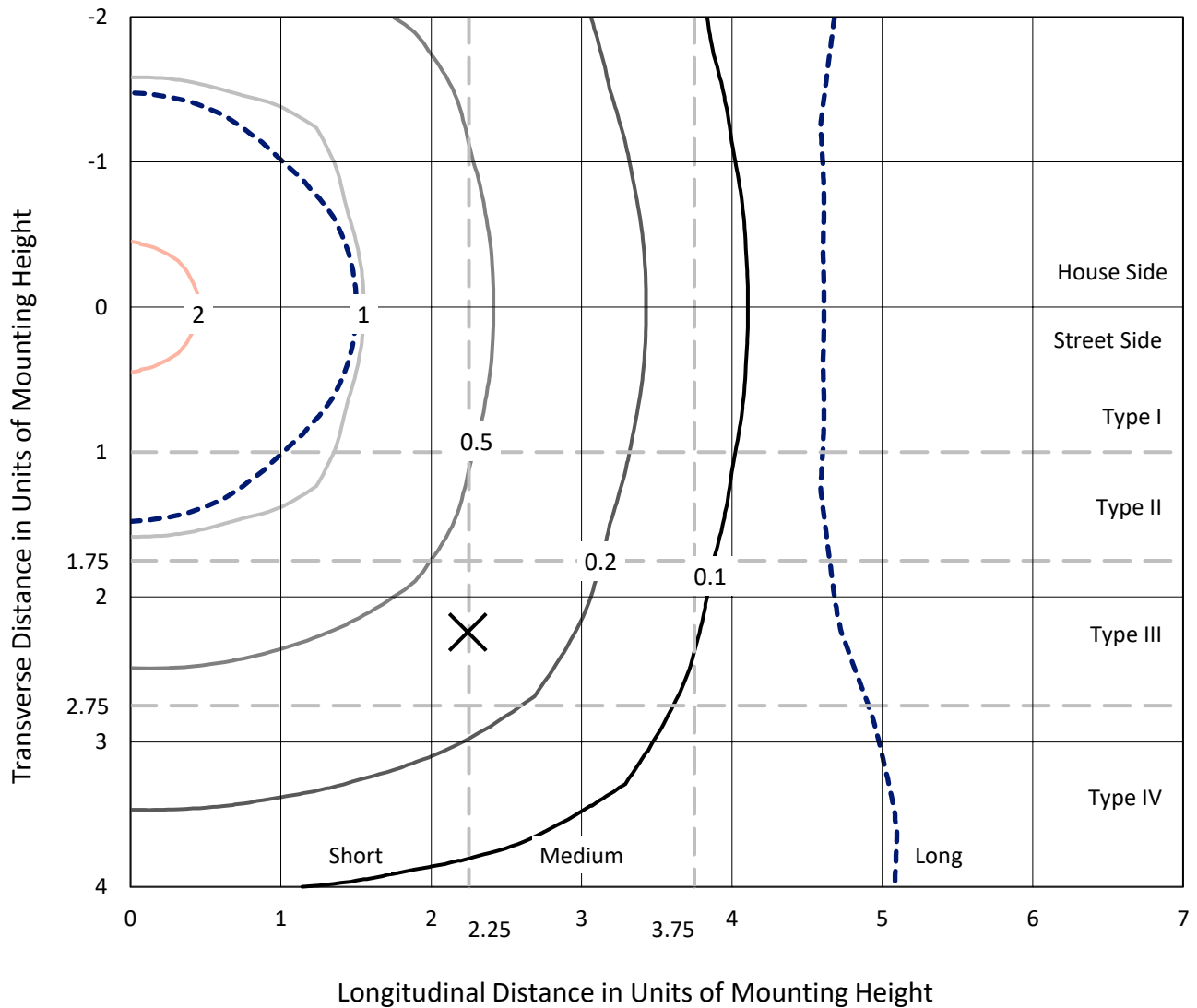
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

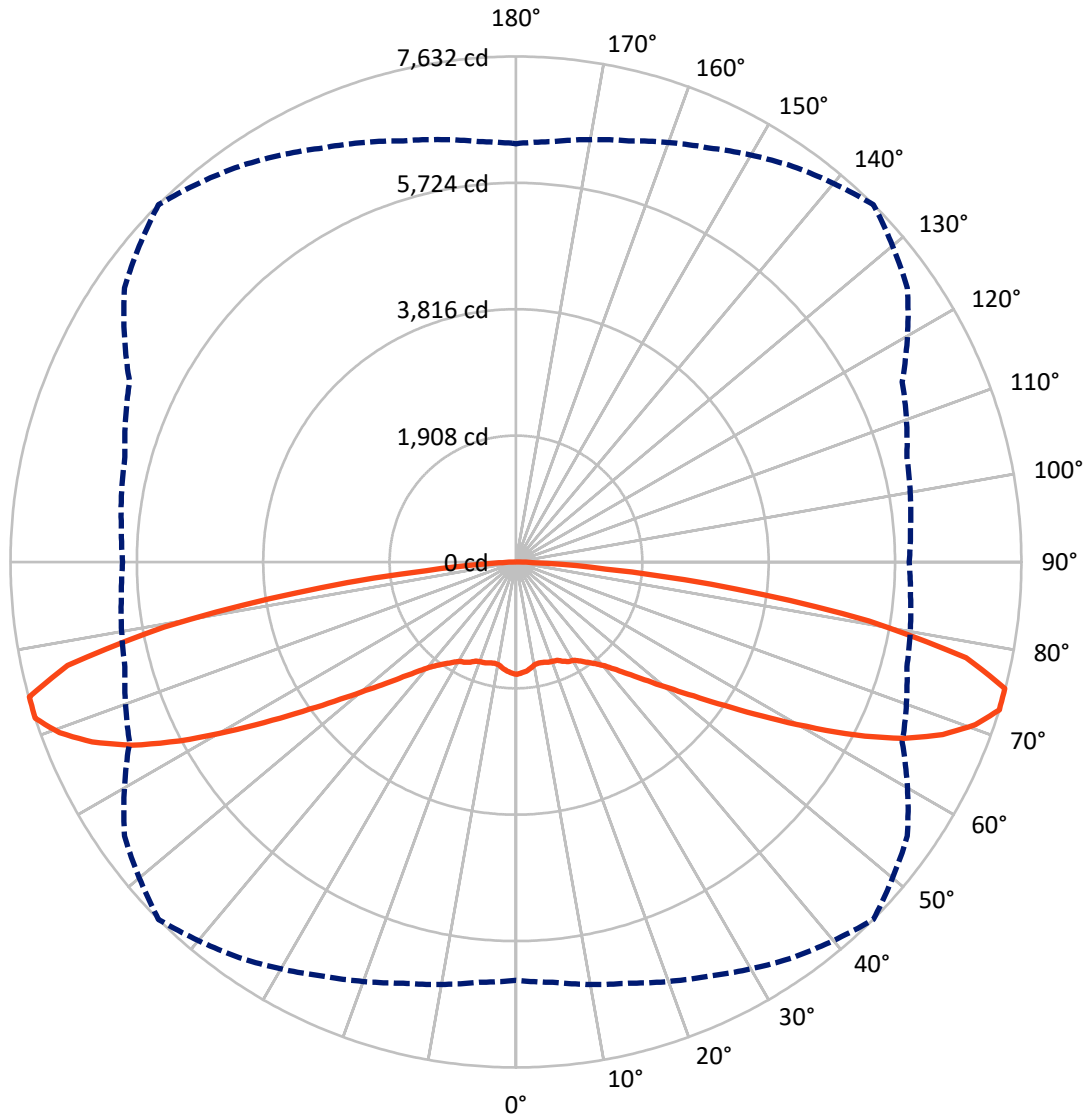
✕ Max cd
 - - - 1/2 Max cd



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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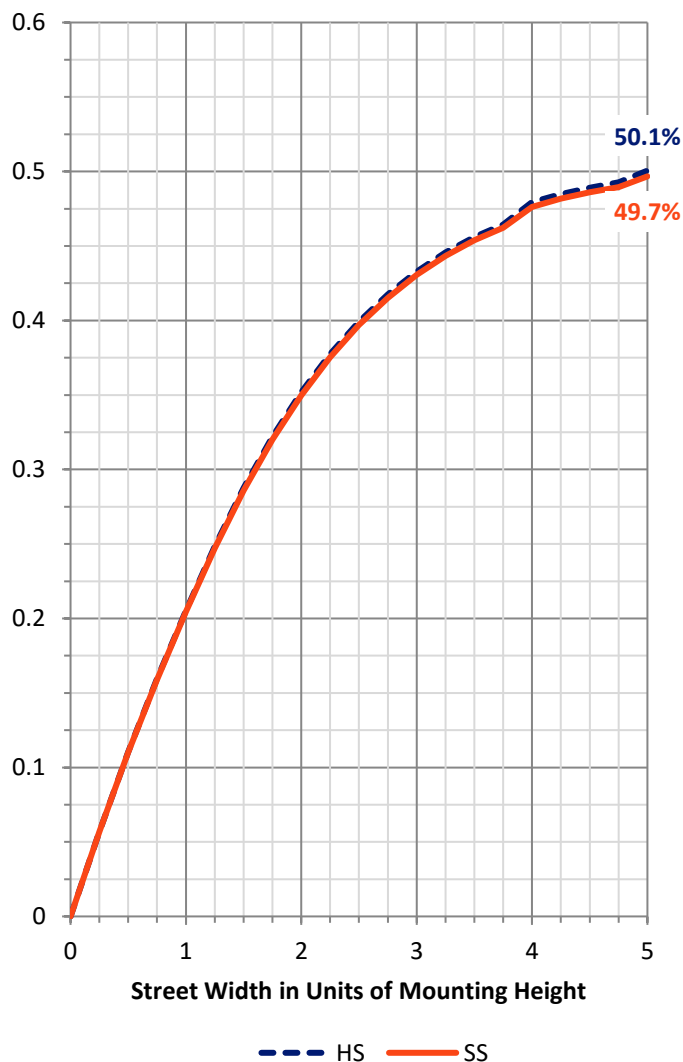
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10265.5	0.0	10265.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10265.5	0.0	10265.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20531.0	0.0	20531.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	0.8
10°-20°	452.2	2.2
20°-30°	768.4	3.7
30°-40°	1172.0	5.7
40°-50°	1929.8	9.4
50°-60°	3370.0	16.4
60°-70°	5650.0	27.5
70°-80°	6046.6	29.5
80°-90°	986.2	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°	20531.0	100.0
0°-180°	20531.0	100.0



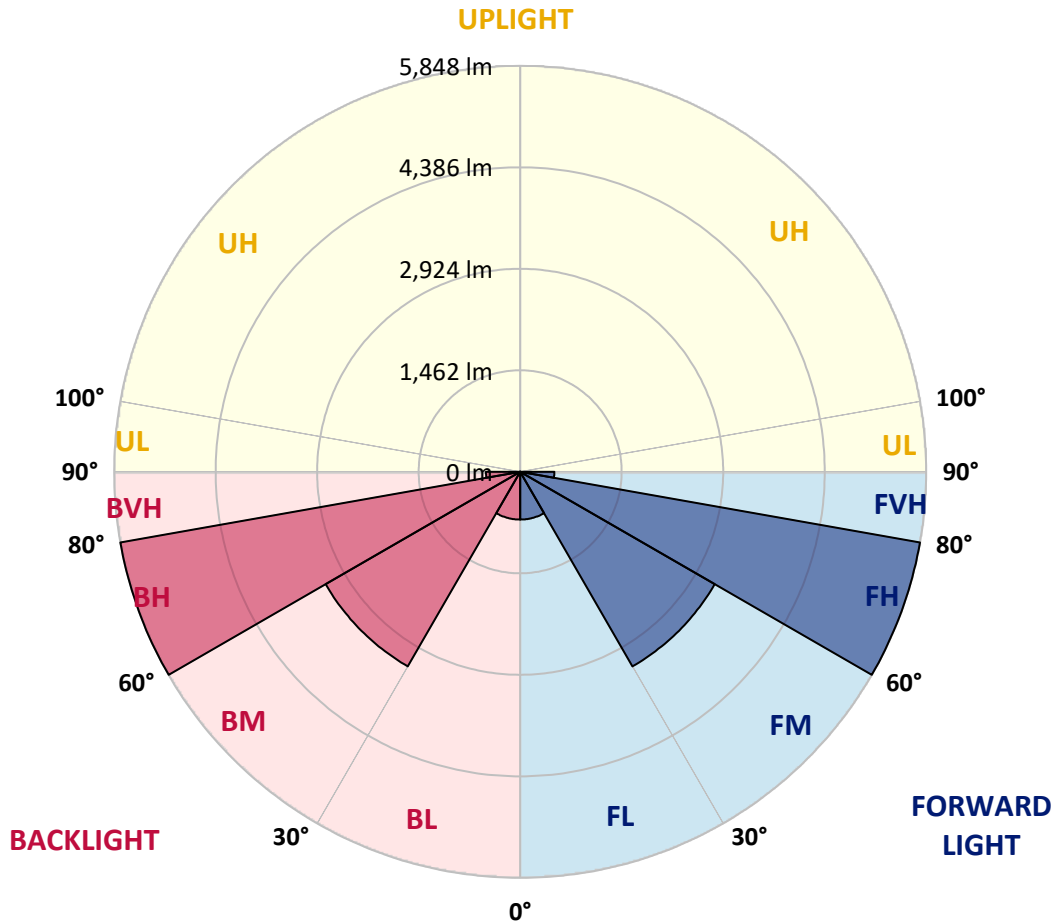
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	688.2	3.4			
FM (30°-60°)	3235.9	15.8			
FH (60°-80°)	5848.3	28.5			G3/7500
FVH (80°-90°)	493.1	2.4			G3/500
BL (0°-30°)	688.2	3.4	B2/1000		
BM (30°-60°)	3235.9	15.8	B3/5000		
BH (60°-80°)	5848.3	28.5	B5		G3/7500
BVH (80°-90°)	493.1	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°	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0
2.5°	1688.5	1688.5	1688.5	1685.9	1680.6	1678.0	1672.7	1675.4	1675.4	1675.4	1675.4
5°	1667.5	1667.5	1664.9	1662.3	1657.0	1654.4	1649.1	1654.4	1654.4	1654.4	1654.4
7.5°	1628.2	1630.8	1630.8	1628.2	1620.3	1617.7	1609.8	1612.4	1612.4	1615.1	1612.4
10°	1607.2	1607.2	1604.6	1591.5	1578.4	1573.1	1570.5	1578.4	1586.2	1594.1	1594.1
12.5°	1607.2	1607.2	1602.0	1581.0	1562.6	1562.6	1562.6	1573.1	1588.8	1604.6	1607.2
15°	1615.1	1615.1	1604.6	1581.0	1570.5	1573.1	1573.1	1583.6	1602.0	1622.9	1625.6
17.5°	1620.3	1620.3	1607.2	1583.6	1583.6	1591.5	1586.2	1594.1	1612.4	1636.0	1638.7
20°	1628.2	1628.2	1609.8	1591.5	1591.5	1599.3	1599.3	1607.2	1622.9	1646.5	1649.1
22.5°	1643.9	1641.3	1622.9	1607.2	1607.2	1612.4	1617.7	1628.2	1641.3	1662.3	1667.5
25°	1662.3	1662.3	1646.5	1643.9	1649.1	1662.3	1659.6	1657.0	1662.3	1680.6	1688.5
27.5°	1672.7	1672.7	1662.3	1670.1	1691.1	1701.6	1688.5	1678.0	1678.0	1696.3	1699.0
30°	1706.8	1704.2	1693.7	1699.0	1717.3	1722.6	1714.7	1701.6	1709.5	1730.4	1733.0
32.5°	1764.5	1764.5	1748.8	1748.8	1761.9	1782.9	1756.6	1748.8	1759.3	1782.9	1785.5
35°	1853.7	1853.7	1832.7	1822.2	1832.7	1861.5	1822.2	1819.6	1837.9	1864.1	1866.8
37.5°	1966.4	1966.4	1953.3	1927.1	1929.7	1948.0	1914.0	1911.3	1945.4	1974.3	1974.3
40°	2108.0	2115.8	2102.7	2071.3	2060.8	2063.4	2037.2	2039.8	2079.1	2113.2	2113.2
42.5°	2283.6	2288.9	2267.9	2244.3	2231.2	2223.3	2197.1	2202.4	2249.6	2294.1	2294.1
45°	2496.0	2498.6	2477.7	2448.8	2433.1	2427.8	2401.6	2414.7	2467.2	2514.4	2511.7
47.5°	2734.6	2737.2	2716.2	2687.4	2676.9	2684.8	2658.6	2658.6	2705.8	2745.1	2739.8
50°	3004.6	3009.9	2986.3	2973.2	2965.3	2986.3	2954.8	2926.0	2957.5	2996.8	2991.5
52.5°	3303.5	3316.6	3300.9	3306.2	3335.0	3361.2	3308.8	3245.9	3261.6	3287.8	3279.9
55°	3665.4	3681.1	3686.3	3704.7	3780.7	3825.3	3738.8	3633.9	3626.0	3628.6	3615.5
57.5°	4071.7	4082.2	4116.3	4158.3	4315.6	4386.4	4250.0	4069.1	4011.4	3977.4	3969.5
60°	4480.8	4499.1	4583.0	4669.5	4910.7	5039.2	4829.5	4525.3	4402.1	4339.2	4326.1
62.5°	4892.4	4929.1	5065.4	5212.3	5563.6	5755.0	5432.5	4992.0	4813.7	4735.1	4714.1
65°	5369.6	5414.1	5579.3	5765.5	6156.1	6426.2	6035.5	5474.4	5283.0	5178.2	5151.9
67.5°	5928.0	5975.2	6108.9	6316.1	6685.7	6950.5	6604.5	5967.3	5718.3	5584.6	5563.6
70°	6386.8	6428.8	6573.0	6782.7	7058.0	7359.6	7029.2	6360.6	6135.1	6040.8	6027.6
72.5°	6316.1	6371.1	6583.5	6898.1	7291.4	7632.2	7215.3	6436.7	6111.5	5980.5	5938.5
75°	5516.4	5576.7	5828.4	6397.3	7115.7	7624.4	6945.3	5930.6	5547.8	5437.7	5416.8
77.5°	3652.2	3709.9	4134.7	5031.3	6213.8	6947.9	6129.9	4968.4	4352.3	4087.5	4071.7
80°	1476.1	1549.5	1955.9	2907.6	4404.7	5401.0	4546.3	3180.3	2144.7	1730.4	1646.5
82.5°	343.5	409.0	595.2	1072.3	2254.8	3363.8	2451.4	1187.7	689.5	490.3	440.5
85°	144.2	146.8	254.3	348.7	705.3	1358.1	802.3	432.6	351.3	256.9	251.7
87.5°	55.1	57.7	123.2	146.8	225.5	256.9	272.7	222.9	207.1	128.5	123.2
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)