

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: P399290

Luminaire Tested: **ARCH-L-PA3-120-750-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399290
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-PA3-120-750-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20322 lumens
Efficiency: N/A
Efficacy: 165.2 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

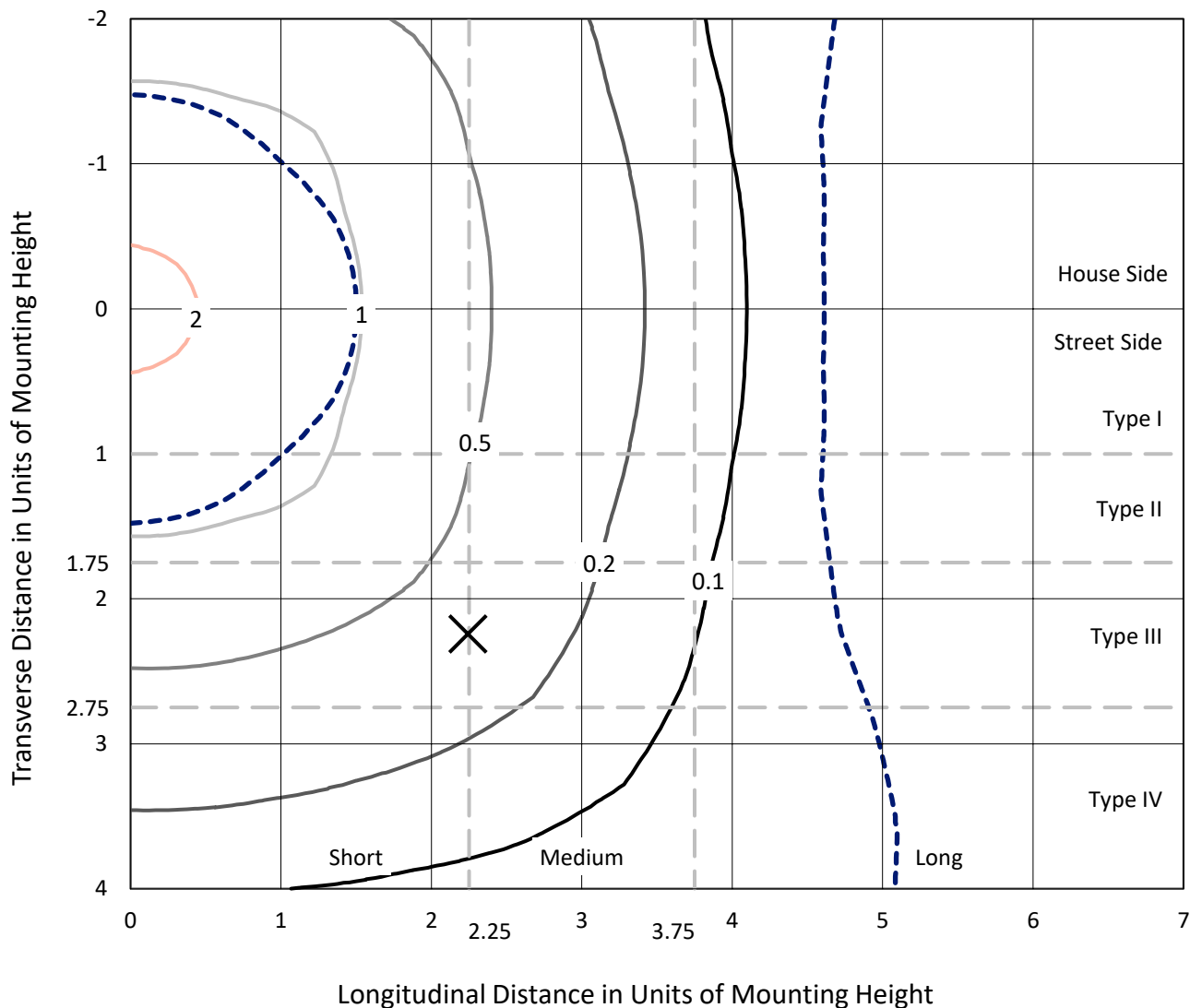
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

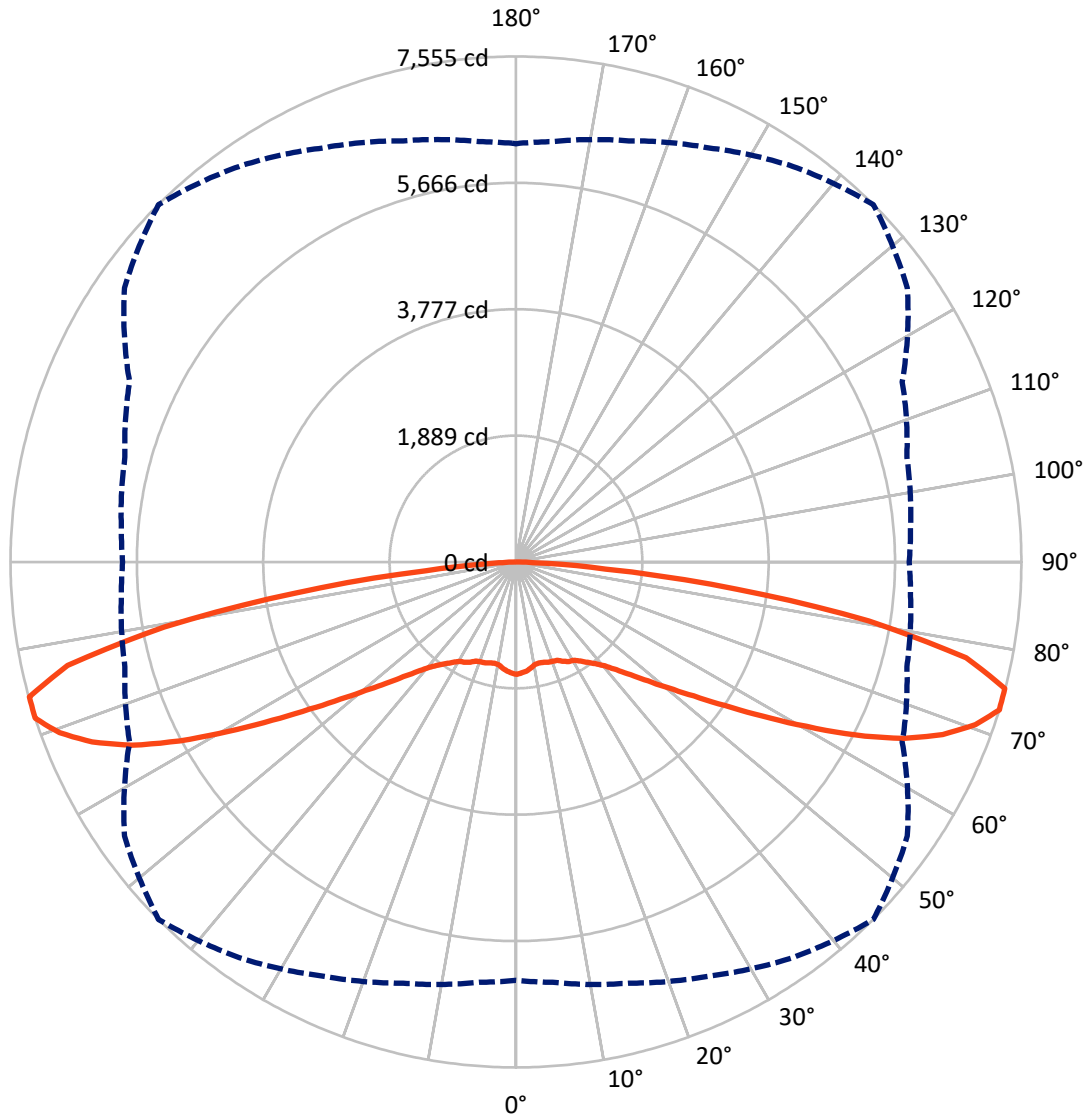
✕ Max cd
 - - - 1/2 Max cd



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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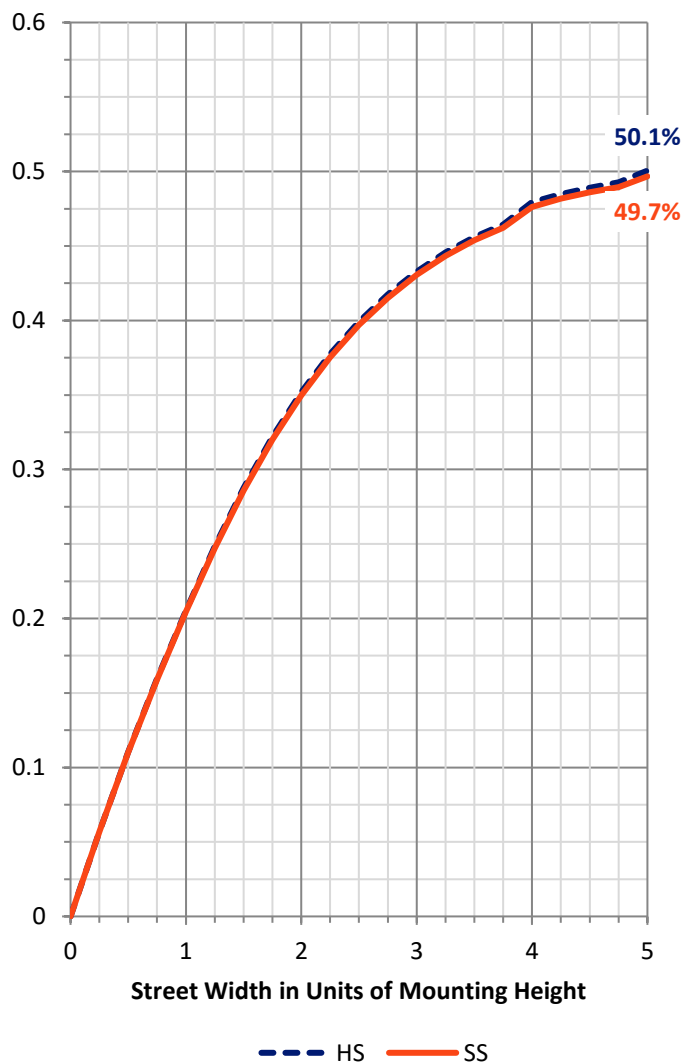
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10161.0	0.0	10161.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10161.0	0.0	10161.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20322.0	0.0	20322.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	0.8
10°-20°	447.6	2.2
20°-30°	760.6	3.7
30°-40°	1160.1	5.7
40°-50°	1910.2	9.4
50°-60°	3335.7	16.4
60°-70°	5592.4	27.5
70°-80°	5985.0	29.5
80°-90°	976.2	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°	20322.0	100.0
0°-180°	20322.0	100.0



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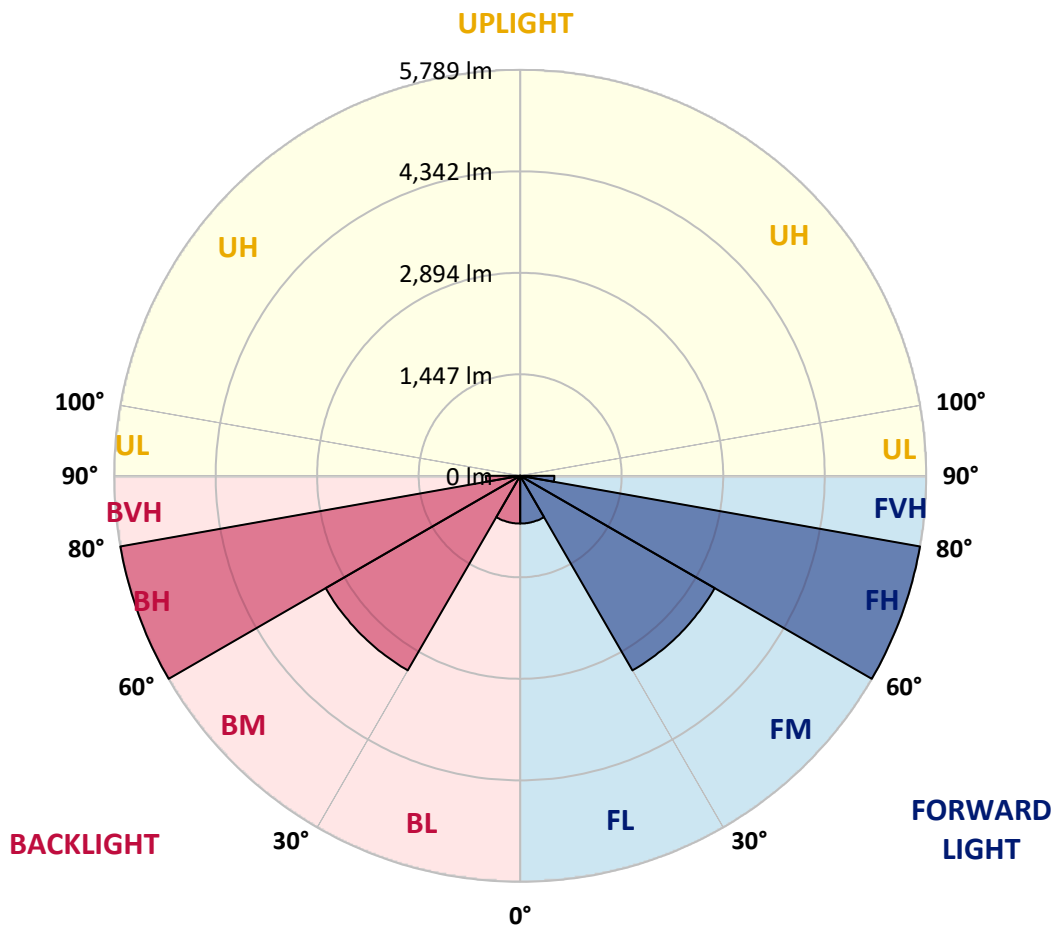
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.2	3.4			
FM (30°-60°)	3203.0	15.8			
FH (60°-80°)	5788.7	28.5			G3/7500
FVH (80°-90°)	488.1	2.4			G3/500
BL (0°-30°)	681.2	3.4	B2/1000		
BM (30°-60°)	3203.0	15.8	B3/5000		
BH (60°-80°)	5788.7	28.5	B5		G3/7500
BVH (80°-90°)	488.1	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°	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1671.3	1671.3	1671.3	1668.7	1663.5	1660.9	1655.7	1658.3	1658.3	1658.3	1658.3
5°	1650.5	1650.5	1647.9	1645.3	1640.1	1637.6	1632.4	1637.6	1637.6	1637.6	1637.6
7.5°	1611.6	1614.2	1614.2	1611.6	1603.8	1601.2	1593.4	1596.0	1596.0	1598.6	1596.0
10°	1590.8	1590.8	1588.2	1575.3	1562.3	1557.1	1554.5	1562.3	1570.1	1577.9	1577.9
12.5°	1590.8	1590.8	1585.6	1564.9	1546.7	1546.7	1546.7	1557.1	1572.7	1588.2	1590.8
15°	1598.6	1598.6	1588.2	1564.9	1554.5	1557.1	1557.1	1567.5	1585.6	1606.4	1609.0
17.5°	1603.8	1603.8	1590.8	1567.5	1567.5	1575.3	1570.1	1577.9	1596.0	1619.4	1622.0
20°	1611.6	1611.6	1593.4	1575.3	1575.3	1583.1	1583.1	1590.8	1606.4	1629.8	1632.4
22.5°	1627.2	1624.6	1606.4	1590.8	1590.8	1596.0	1601.2	1611.6	1624.6	1645.3	1650.5
25°	1645.3	1645.3	1629.8	1627.2	1632.4	1645.3	1642.7	1640.1	1645.3	1663.5	1671.3
27.5°	1655.7	1655.7	1645.3	1653.1	1673.9	1684.3	1671.3	1660.9	1660.9	1679.1	1681.7
30°	1689.5	1686.9	1676.5	1681.7	1699.8	1705.0	1697.2	1684.3	1692.0	1712.8	1715.4
32.5°	1746.5	1746.5	1731.0	1731.0	1744.0	1764.7	1738.8	1731.0	1741.4	1764.7	1767.3
35°	1834.8	1834.8	1814.0	1803.6	1814.0	1842.6	1803.6	1801.0	1819.2	1845.2	1847.8
37.5°	1946.4	1946.4	1933.4	1907.4	1910.0	1928.2	1894.5	1891.9	1925.6	1954.2	1954.2
40°	2086.5	2094.3	2081.3	2050.2	2039.8	2042.4	2016.4	2019.0	2058.0	2091.7	2091.7
42.5°	2260.4	2265.6	2244.8	2221.5	2208.5	2200.7	2174.7	2179.9	2226.7	2270.8	2270.8
45°	2470.6	2473.2	2452.4	2423.9	2408.3	2403.1	2377.2	2390.1	2442.1	2488.8	2486.2
47.5°	2706.8	2709.4	2688.6	2660.0	2649.7	2657.5	2631.5	2631.5	2678.2	2717.1	2711.9
50°	2974.1	2979.3	2955.9	2942.9	2935.1	2955.9	2924.8	2896.2	2927.3	2966.3	2961.1
52.5°	3269.9	3282.9	3267.3	3272.5	3301.1	3327.0	3275.1	3212.8	3228.4	3254.3	3246.6
55°	3628.0	3643.6	3648.8	3667.0	3742.2	3786.3	3700.7	3596.9	3589.1	3591.7	3578.7
57.5°	4030.3	4040.7	4074.4	4115.9	4271.6	4341.7	4206.8	4027.7	3970.6	3936.9	3929.1
60°	4435.1	4453.3	4536.4	4622.0	4860.7	4987.9	4780.3	4479.3	4357.3	4295.0	4282.0
62.5°	4842.6	4878.9	5013.9	5159.2	5506.9	5696.4	5377.2	4941.2	4764.7	4686.9	4666.1
65°	5314.9	5359.0	5522.5	5706.8	6093.5	6360.8	5974.1	5418.7	5229.3	5125.5	5099.5
67.5°	5867.7	5914.4	6046.7	6251.8	6617.7	6879.8	6537.2	5906.6	5660.1	5527.7	5506.9
70°	6321.8	6363.3	6506.1	6713.7	6986.2	7284.6	6957.6	6295.9	6072.7	5979.3	5966.3
72.5°	6251.8	6306.3	6516.5	6827.9	7217.2	7554.5	7141.9	6371.1	6049.3	5919.6	5878.1
75°	5460.2	5519.9	5769.1	6332.2	7043.3	7546.7	6874.6	5870.3	5491.4	5382.4	5361.6
77.5°	3615.1	3672.2	4092.6	4980.1	6150.5	6877.2	6067.5	4917.8	4308.0	4045.9	4030.3
80°	1461.1	1533.7	1936.0	2878.0	4359.9	5346.0	4500.0	3147.9	2122.8	1712.8	1629.8
82.5°	340.0	404.8	589.1	1061.4	2231.8	3329.6	2426.5	1175.6	682.5	485.3	436.0
85°	142.7	145.3	251.7	345.2	698.1	1344.3	794.1	428.2	347.8	254.3	249.1
87.5°	54.5	57.1	122.0	145.3	223.2	254.3	269.9	220.6	205.0	127.2	122.0
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)