

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: P399569

Luminaire Tested: **ARCH-L-PA3-160-740-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399569  
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-PA3-160-740-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 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: 25697 lumens  
Efficiency: N/A  
Efficacy: 158.6 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

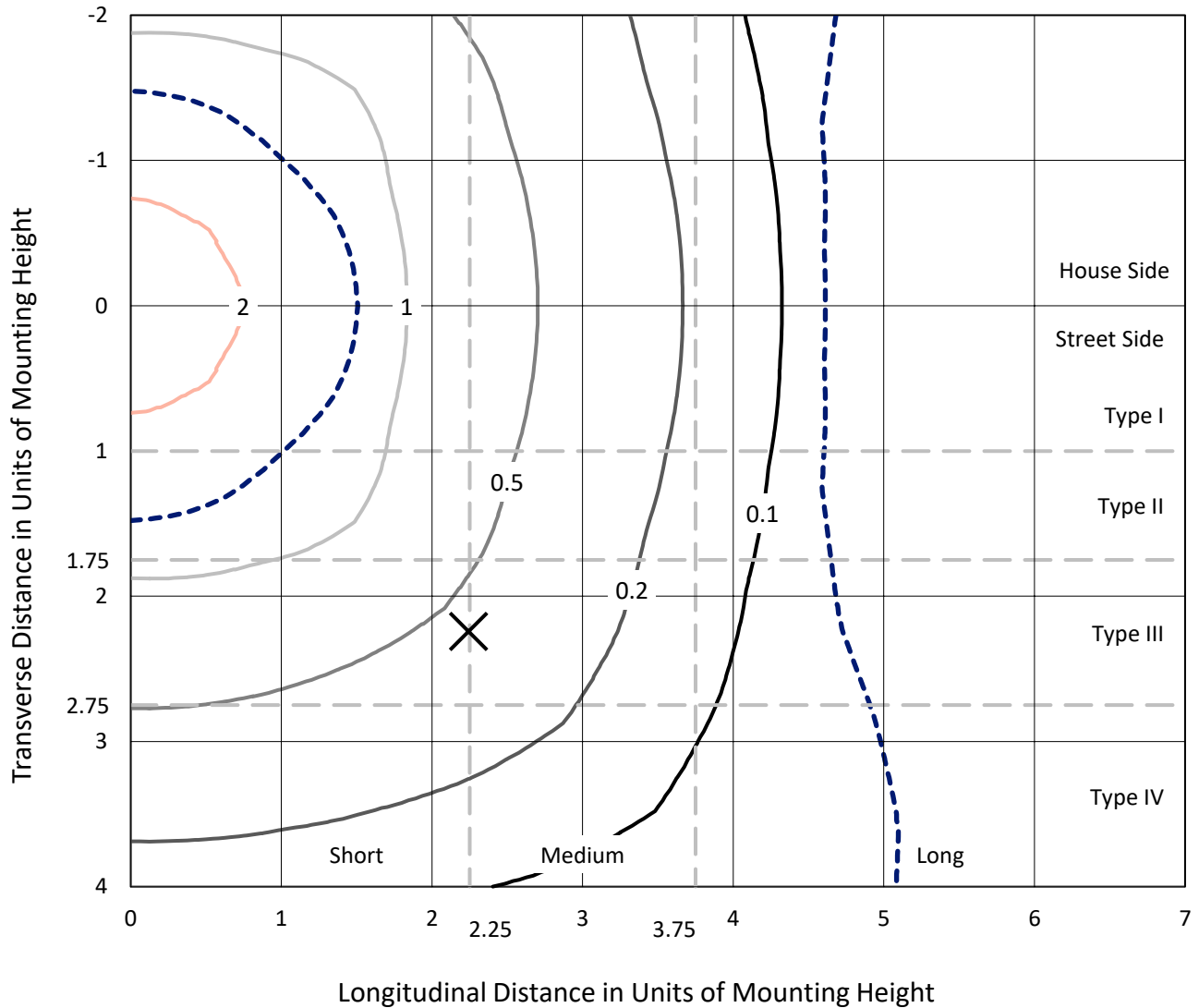
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

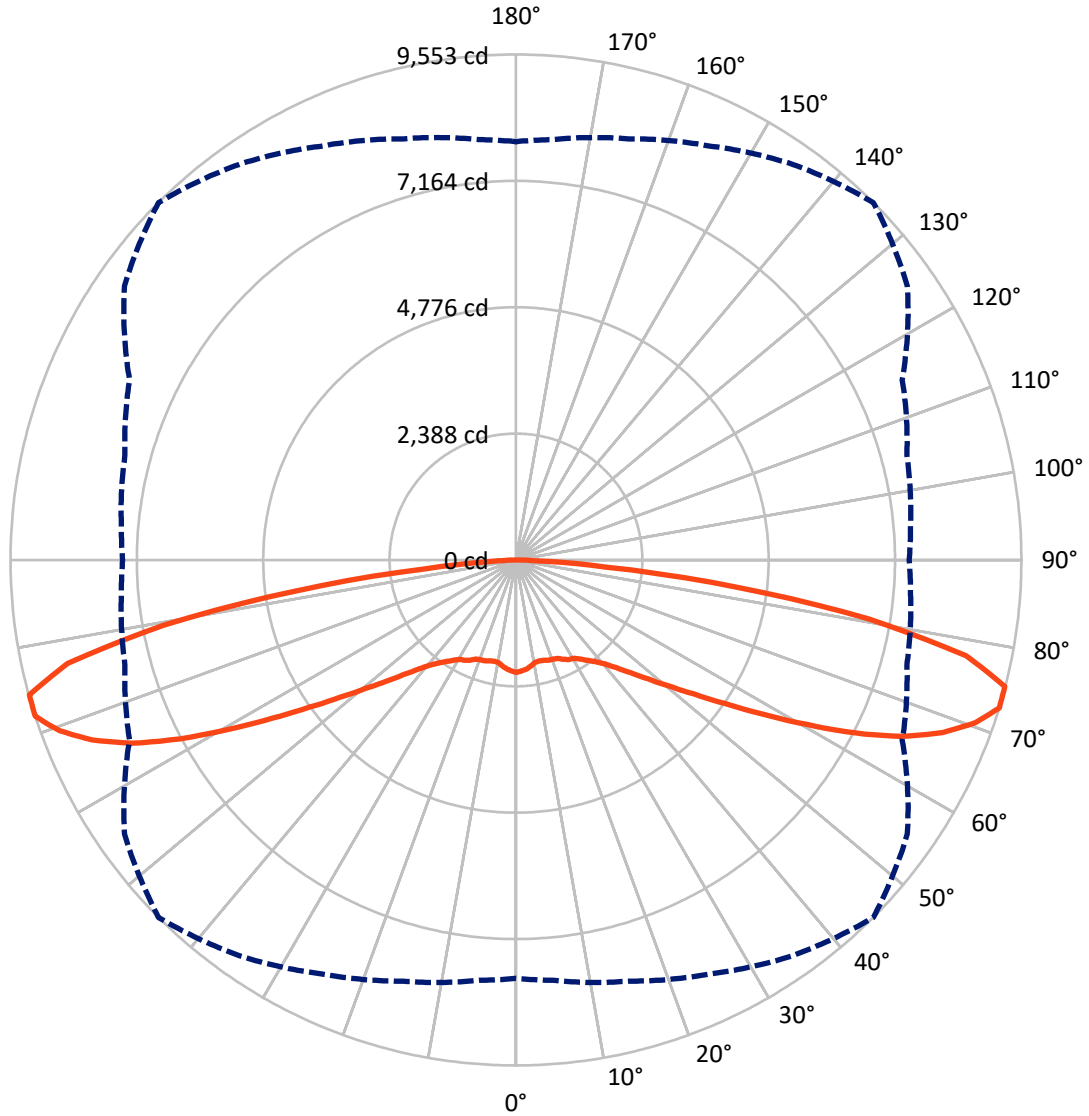
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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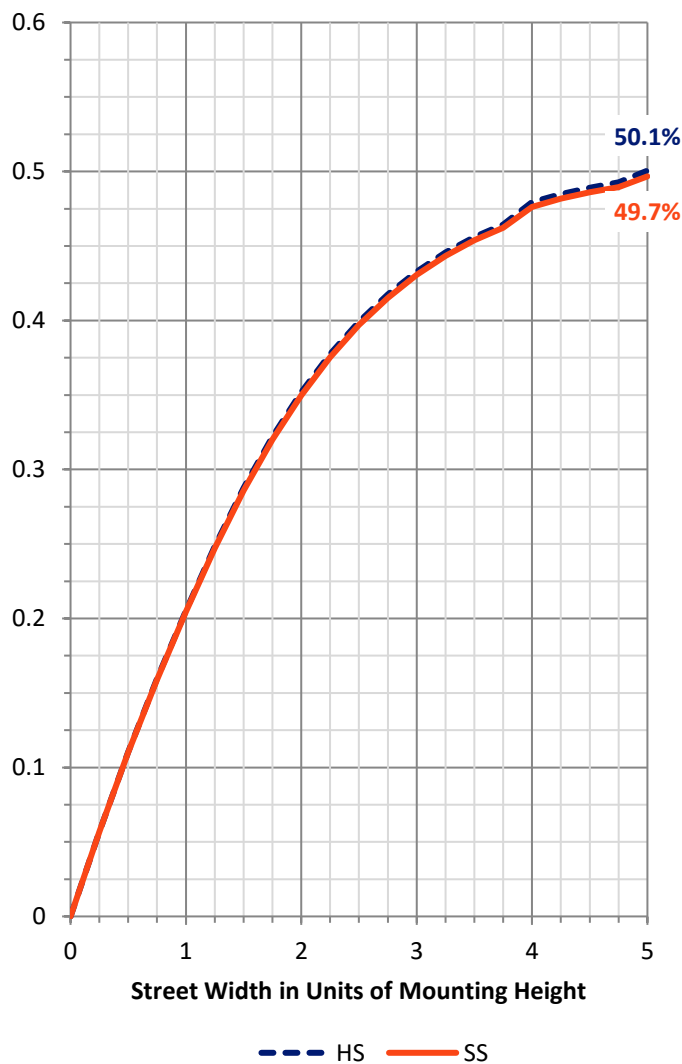
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12848.5	0.0	12848.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12848.5	0.0	12848.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25697.0	0.0	25697.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.0	0.8
10°-20°	566.0	2.2
20°-30°	961.7	3.7
30°-40°	1466.9	5.7
40°-50°	2415.4	9.4
50°-60°	4218.0	16.4
60°-70°	7071.6	27.5
70°-80°	7568.0	29.5
80°-90°	1234.3	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°	25697.0	100.0
0°-180°	25697.0	100.0

**Coefficient of Utilization**

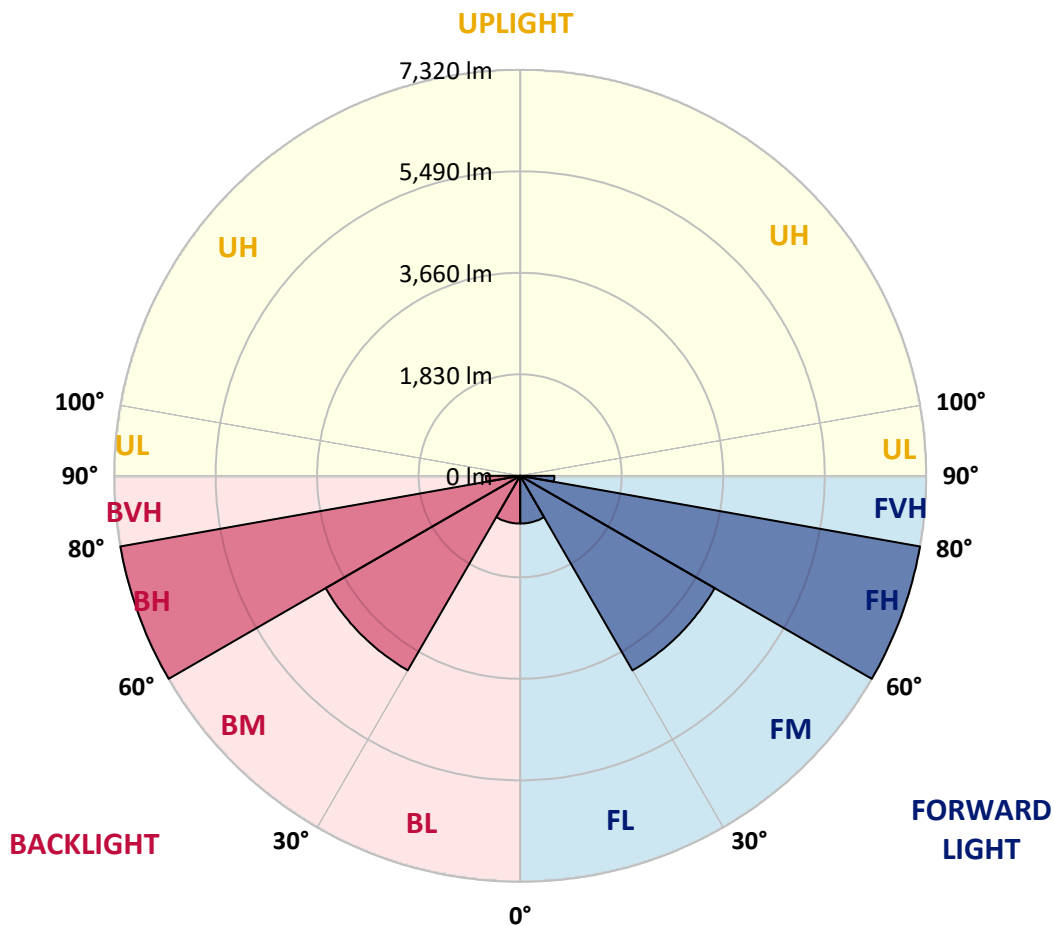


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.4	3.4			
FM (30°-60°)	4050.2	15.8			
FH (60°-80°)	7319.8	28.5			G3/7500
FVH (80°-90°)	617.2	2.4			G4/750
BL (0°-30°)	861.4	3.4	B2/1000		
BM (30°-60°)	4050.2	15.8	B3/5000		
BH (60°-80°)	7319.8	28.5	B5		G3/7500
BVH (80°-90°)	617.2	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°	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5
2.5°	2113.3	2113.3	2113.3	2110.0	2103.5	2100.2	2093.6	2096.9	2096.9	2096.9	2096.9
5°	2087.1	2087.1	2083.8	2080.5	2074.0	2070.7	2064.1	2070.7	2070.7	2070.7	2070.7
7.5°	2037.9	2041.1	2041.1	2037.9	2028.0	2024.7	2014.9	2018.2	2018.2	2021.4	2018.2
10°	2011.6	2011.6	2008.3	1991.9	1975.5	1968.9	1965.7	1975.5	1985.3	1995.2	1995.2
12.5°	2011.6	2011.6	2005.0	1978.8	1955.8	1955.8	1955.8	1968.9	1988.6	2008.3	2011.6
15°	2021.4	2021.4	2008.3	1978.8	1965.7	1968.9	1968.9	1982.1	2005.0	2031.3	2034.6
17.5°	2028.0	2028.0	2011.6	1982.1	1982.1	1991.9	1985.3	1995.2	2018.2	2047.7	2051.0
20°	2037.9	2037.9	2014.9	1991.9	1991.9	2001.8	2001.8	2011.6	2031.3	2060.8	2064.1
22.5°	2057.5	2054.3	2031.3	2011.6	2011.6	2018.2	2024.7	2037.9	2054.3	2080.5	2087.1
25°	2080.5	2080.5	2060.8	2057.5	2064.1	2080.5	2077.2	2074.0	2080.5	2103.5	2113.3
27.5°	2093.6	2093.6	2080.5	2090.4	2116.6	2129.7	2113.3	2100.2	2100.2	2123.2	2126.5
30°	2136.3	2133.0	2119.9	2126.5	2149.4	2156.0	2146.1	2129.7	2139.6	2165.8	2169.1
32.5°	2208.5	2208.5	2188.8	2188.8	2205.2	2231.5	2198.6	2188.8	2201.9	2231.5	2234.7
35°	2320.1	2320.1	2293.8	2280.7	2293.8	2329.9	2280.7	2277.4	2300.4	2333.2	2336.5
37.5°	2461.2	2461.2	2444.8	2412.0	2415.2	2438.2	2395.5	2392.3	2434.9	2471.0	2471.0
40°	2638.4	2648.2	2631.8	2592.4	2579.3	2582.6	2549.8	2553.1	2602.3	2644.9	2644.9
42.5°	2858.2	2864.8	2838.6	2809.0	2792.6	2782.8	2750.0	2756.5	2815.6	2871.4	2871.4
45°	3124.1	3127.3	3101.1	3065.0	3045.3	3038.7	3005.9	3022.3	3088.0	3147.0	3143.7
47.5°	3422.7	3426.0	3399.7	3363.6	3350.5	3360.3	3327.5	3327.5	3386.6	3435.8	3429.2
50°	3760.7	3767.2	3737.7	3721.3	3711.5	3737.7	3698.3	3662.2	3701.6	3750.8	3744.3
52.5°	4134.8	4151.2	4131.5	4138.1	4174.2	4207.0	4141.3	4062.6	4082.3	4115.1	4105.2
55°	4587.6	4607.3	4613.9	4636.9	4732.0	4787.8	4679.5	4548.3	4538.4	4541.7	4525.3
57.5°	5096.3	5109.4	5152.1	5204.6	5401.5	5490.1	5319.4	5093.0	5020.8	4978.1	4968.3
60°	5608.2	5631.2	5736.2	5844.5	6146.4	6307.2	6044.6	5664.0	5509.8	5431.0	5414.6
62.5°	6123.4	6169.3	6340.0	6523.8	6963.5	7203.0	6799.4	6248.1	6025.0	5926.5	5900.3
65°	6720.6	6776.4	6983.2	7216.2	7705.1	8043.1	7554.2	6851.9	6612.4	6481.1	6448.3
67.5°	7419.6	7478.7	7646.1	7905.3	8368.0	8699.4	8266.3	7468.8	7157.1	6989.7	6963.5
70°	7993.9	8046.4	8226.9	8489.4	8834.0	9211.4	8797.9	7961.1	7678.9	7560.7	7544.3
72.5°	7905.3	7974.2	8240.0	8633.8	9126.0	9552.6	9030.9	8056.2	7649.3	7485.3	7432.7
75°	6904.4	6979.9	7294.9	8007.0	8906.2	9542.8	8692.9	7422.9	6943.8	6806.0	6779.7
77.5°	4571.2	4643.4	5175.0	6297.3	7777.3	8696.2	7672.3	6218.6	5447.4	5116.0	5096.3
80°	1847.5	1939.4	2448.0	3639.3	5513.0	6760.0	5690.2	3980.5	2684.3	2165.8	2060.8
82.5°	429.9	511.9	744.9	1342.2	2822.1	4210.3	3068.3	1486.5	863.1	613.7	551.3
85°	180.5	183.8	318.3	436.4	882.7	1699.9	1004.2	541.5	439.7	321.6	315.0
87.5°	68.9	72.2	154.2	183.8	282.2	321.6	341.3	278.9	259.2	160.8	154.2
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)