

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: P399713

Luminaire Tested: **ARCH-L-PA3-180-740-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399713  
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-PA3-180-740-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27574 lumens  
Efficiency: N/A  
Efficacy: 152.3 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

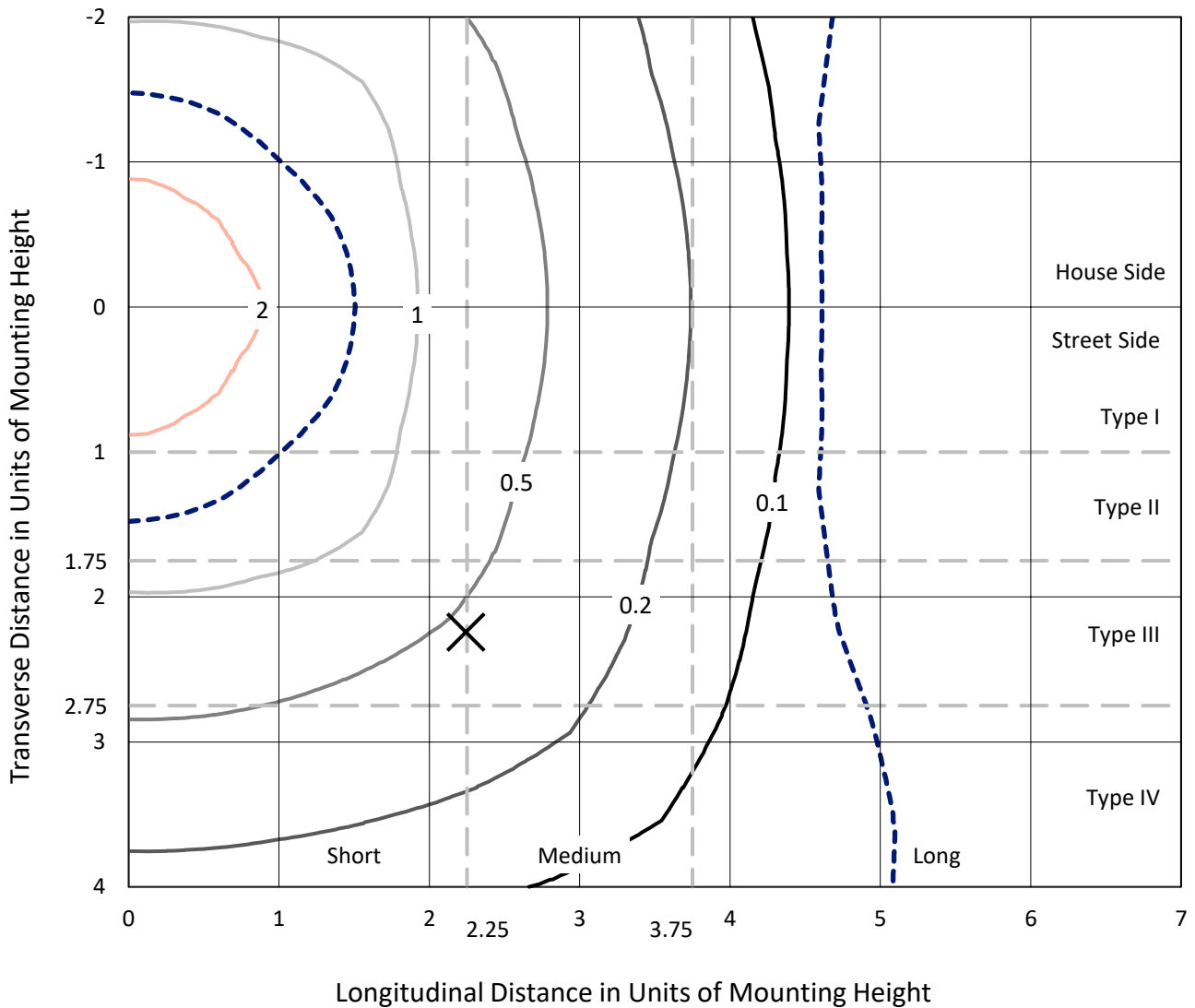
Input Watts (W): 181  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P399713  
 CATALOG NUMBER: ARCH-L-PA3-180-740-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

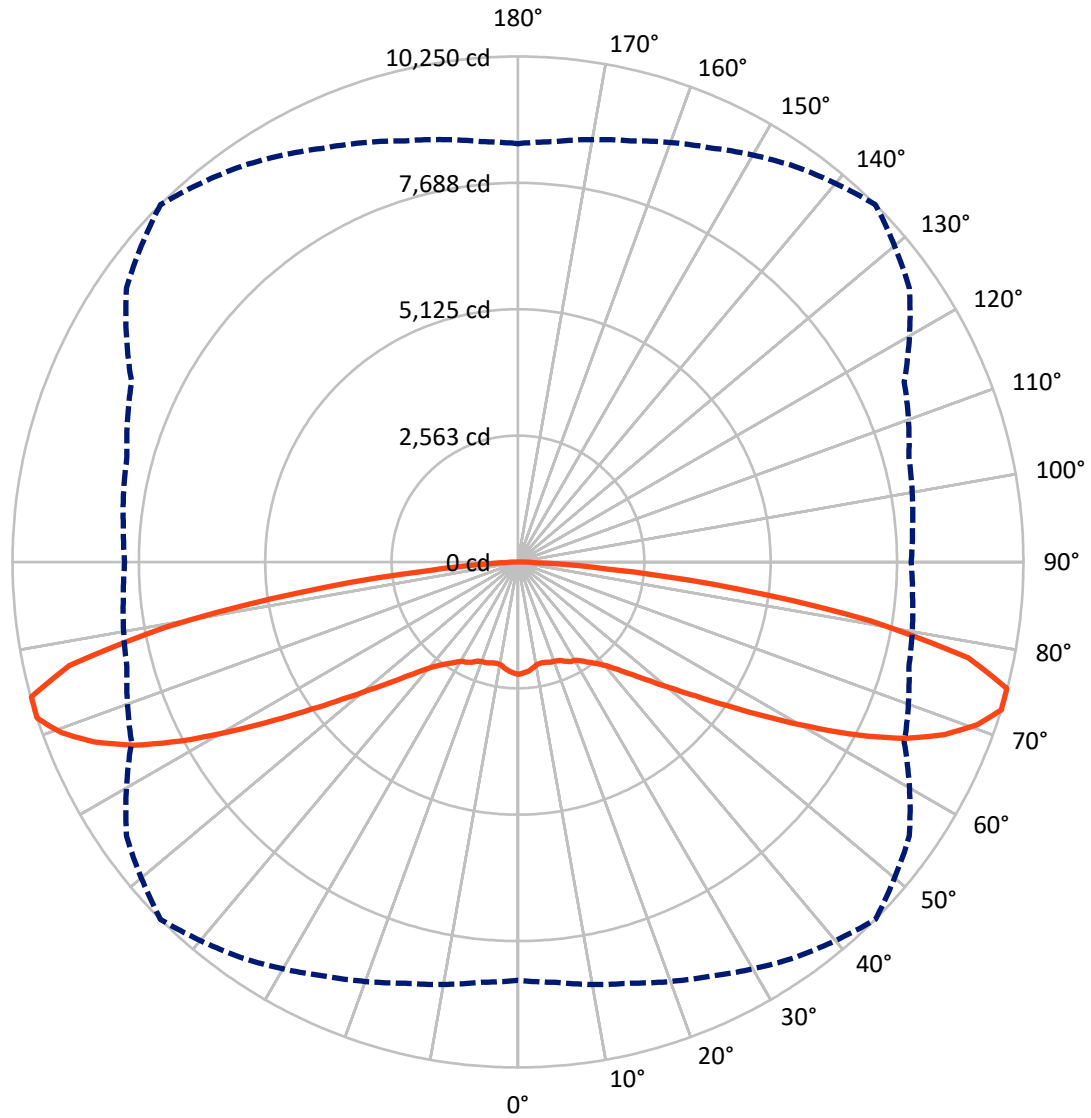
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

REPORT NUMBER: P399713  
CATALOG NUMBER: ARCH-L-PA3-180-740-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P399713  
 CATALOG NUMBER: ARCH-L-PA3-180-740-U-5WQ

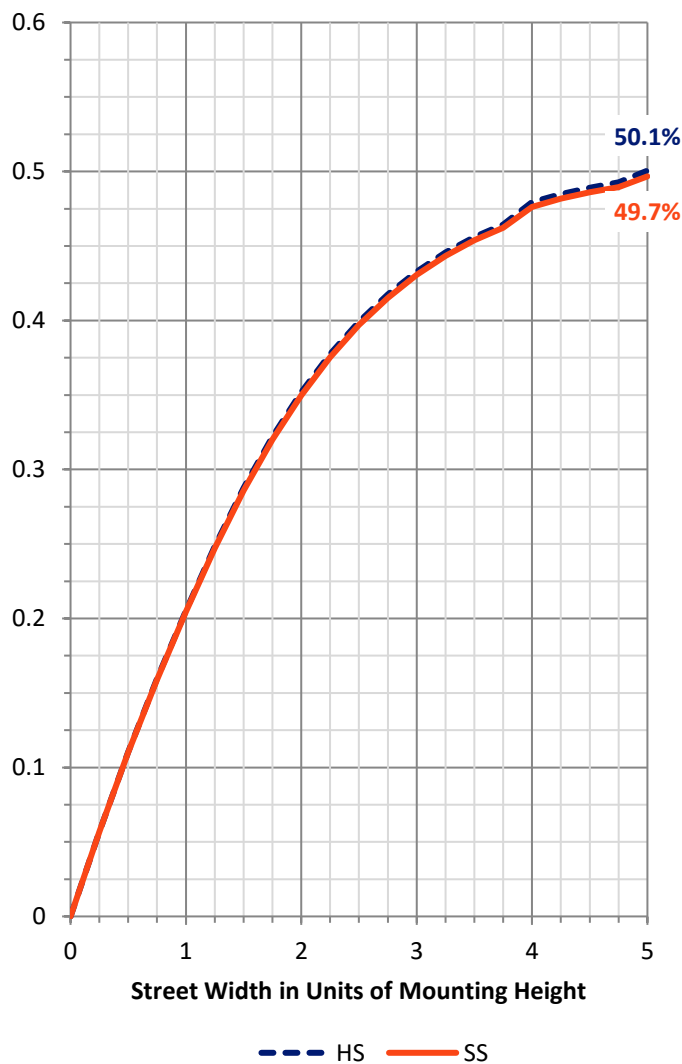
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13787.0	0.0	13787.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13787.0	0.0	13787.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27574.0	0.0	27574.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.2	0.8
10°-20°	607.3	2.2
20°-30°	1032.0	3.7
30°-40°	1574.0	5.7
40°-50°	2591.8	9.4
50°-60°	4526.1	16.4
60°-70°	7588.1	27.5
70°-80°	8120.8	29.5
80°-90°	1324.5	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°	27574.0	100.0
0°-180°	27574.0	100.0

**Coefficient of Utilization**

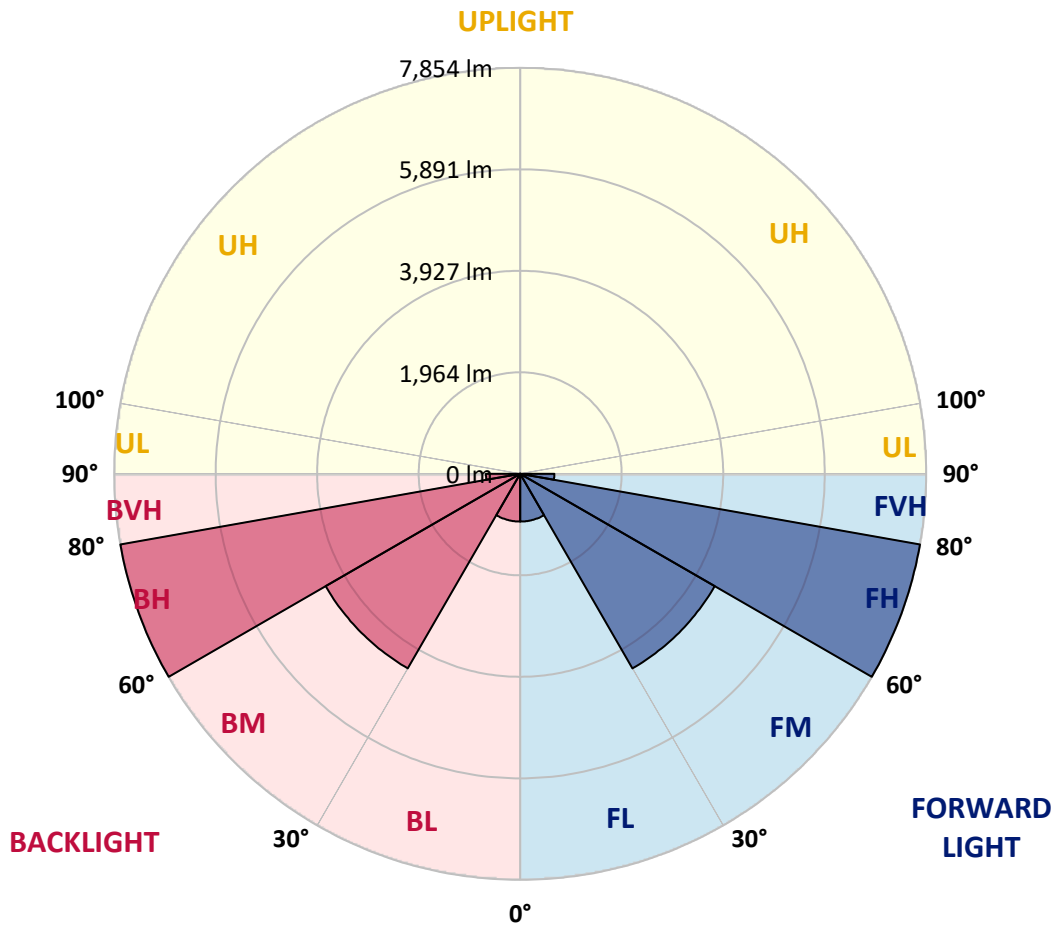


REPORT NUMBER: P399713  
 CATALOG NUMBER: ARCH-L-PA3-180-740-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.3	3.4			
FM (30°-60°)	4346.0	15.8			
FH (60°-80°)	7854.5	28.5			G4/12000
FVH (80°-90°)	662.3	2.4			G4/750
BL (0°-30°)	924.3	3.4	B2/1000		
BM (30°-60°)	4346.0	15.8	B3/5000		
BH (60°-80°)	7854.5	28.5	B5		G4/12000
BVH (80°-90°)	662.3	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





REPORT NUMBER: P399713

CATALOG NUMBER: ARCH-L-PA3-180-740-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2281.8	2281.8	2281.8	2281.8	2281.8	2281.8	2281.8	2281.8	2281.8	2281.8	2281.8
2.5°	2267.7	2267.7	2267.7	2264.2	2257.1	2253.6	2246.6	2250.1	2250.1	2250.1	2250.1
5°	2239.5	2239.5	2236.0	2232.5	2225.4	2221.9	2214.9	2221.9	2221.9	2221.9	2221.9
7.5°	2186.7	2190.2	2190.2	2186.7	2176.1	2172.6	2162.1	2165.6	2165.6	2169.1	2165.6
10°	2158.5	2158.5	2155.0	2137.4	2119.8	2112.8	2109.2	2119.8	2130.4	2140.9	2140.9
12.5°	2158.5	2158.5	2151.5	2123.3	2098.7	2098.7	2098.7	2112.8	2133.9	2155.0	2158.5
15°	2169.1	2169.1	2155.0	2123.3	2109.2	2112.8	2112.8	2126.8	2151.5	2179.7	2183.2
17.5°	2176.1	2176.1	2158.5	2126.8	2126.8	2137.4	2130.4	2140.9	2165.6	2197.3	2200.8
20°	2186.7	2186.7	2162.1	2137.4	2137.4	2148.0	2148.0	2158.5	2179.7	2211.4	2214.9
22.5°	2207.8	2204.3	2179.7	2158.5	2158.5	2165.6	2172.6	2186.7	2204.3	2232.5	2239.5
25°	2232.5	2232.5	2211.4	2207.8	2214.9	2232.5	2229.0	2225.4	2232.5	2257.1	2267.7
27.5°	2246.6	2246.6	2232.5	2243.0	2271.2	2285.3	2267.7	2253.6	2253.6	2278.3	2281.8
30°	2292.3	2288.8	2274.7	2281.8	2306.4	2313.5	2302.9	2285.3	2295.9	2324.0	2327.6
32.5°	2369.8	2369.8	2348.7	2348.7	2366.3	2394.5	2359.2	2348.7	2362.8	2394.5	2398.0
35°	2489.5	2489.5	2461.4	2447.3	2461.4	2500.1	2447.3	2443.8	2468.4	2503.6	2507.1
37.5°	2640.9	2640.9	2623.3	2588.1	2591.7	2616.3	2570.5	2567.0	2612.8	2651.5	2651.5
40°	2831.1	2841.7	2824.1	2781.8	2767.7	2771.2	2736.0	2739.5	2792.4	2838.1	2838.1
42.5°	3067.0	3074.1	3045.9	3014.2	2996.6	2986.0	2950.8	2957.9	3021.2	3081.1	3081.1
45°	3352.2	3355.8	3327.6	3288.9	3267.7	3260.7	3225.5	3243.1	3313.5	3376.9	3373.4
47.5°	3672.7	3676.2	3648.0	3609.3	3595.2	3605.8	3570.6	3570.6	3633.9	3686.8	3679.7
50°	4035.4	4042.4	4010.7	3993.1	3982.5	4010.7	3968.5	3929.7	3972.0	4024.8	4017.8
52.5°	4436.8	4454.4	4433.3	4440.3	4479.0	4514.3	4443.8	4359.3	4380.5	4415.7	4405.1
55°	4922.7	4943.9	4950.9	4975.5	5077.7	5137.5	5021.3	4880.5	4869.9	4873.4	4855.8
57.5°	5468.5	5482.6	5528.4	5584.7	5796.0	5891.1	5708.0	5465.0	5387.5	5341.8	5331.2
60°	6017.8	6042.5	6155.2	6271.4	6595.3	6767.9	6486.2	6077.7	5912.2	5827.7	5810.1
62.5°	6570.7	6620.0	6803.1	7000.3	7472.1	7729.2	7296.1	6704.5	6465.0	6359.4	6331.2
65°	7211.5	7271.4	7493.3	7743.3	8267.9	8630.6	8106.0	7352.4	7095.3	6954.5	6919.3
67.5°	7961.6	8025.0	8204.5	8482.7	8979.2	9334.9	8870.1	8014.4	7679.9	7500.3	7472.1
70°	8577.8	8634.1	8827.8	9109.5	9479.2	9884.2	9440.5	8542.6	8239.8	8113.0	8095.4
72.5°	8482.7	8556.7	8841.9	9264.4	9792.6	10250.4	9690.5	8644.7	8208.1	8032.0	7975.7
75°	7408.7	7489.7	7827.8	8591.9	9556.7	10239.8	9327.8	7965.1	7451.0	7303.1	7274.9
77.5°	4905.1	4982.6	5553.0	6757.3	8345.4	9331.3	8232.7	6672.8	5845.3	5489.7	5468.5
80°	1982.5	2081.1	2626.9	3905.1	5915.7	7253.8	6105.9	4271.3	2880.4	2324.0	2211.4
82.5°	461.3	549.3	799.3	1440.2	3028.3	4517.8	3292.4	1595.1	926.1	658.5	591.6
85°	193.7	197.2	341.6	468.3	947.2	1824.0	1077.5	581.0	471.8	345.1	338.0
87.5°	73.9	77.5	165.5	197.2	302.8	345.1	366.2	299.3	278.2	172.5	165.5
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)