

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: P399848

Luminaire Tested: **ARCH-L-PA3-200-730-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399848  
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-PA3-200-730-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27246 lumens  
Efficiency: N/A  
Efficacy: 135.6 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

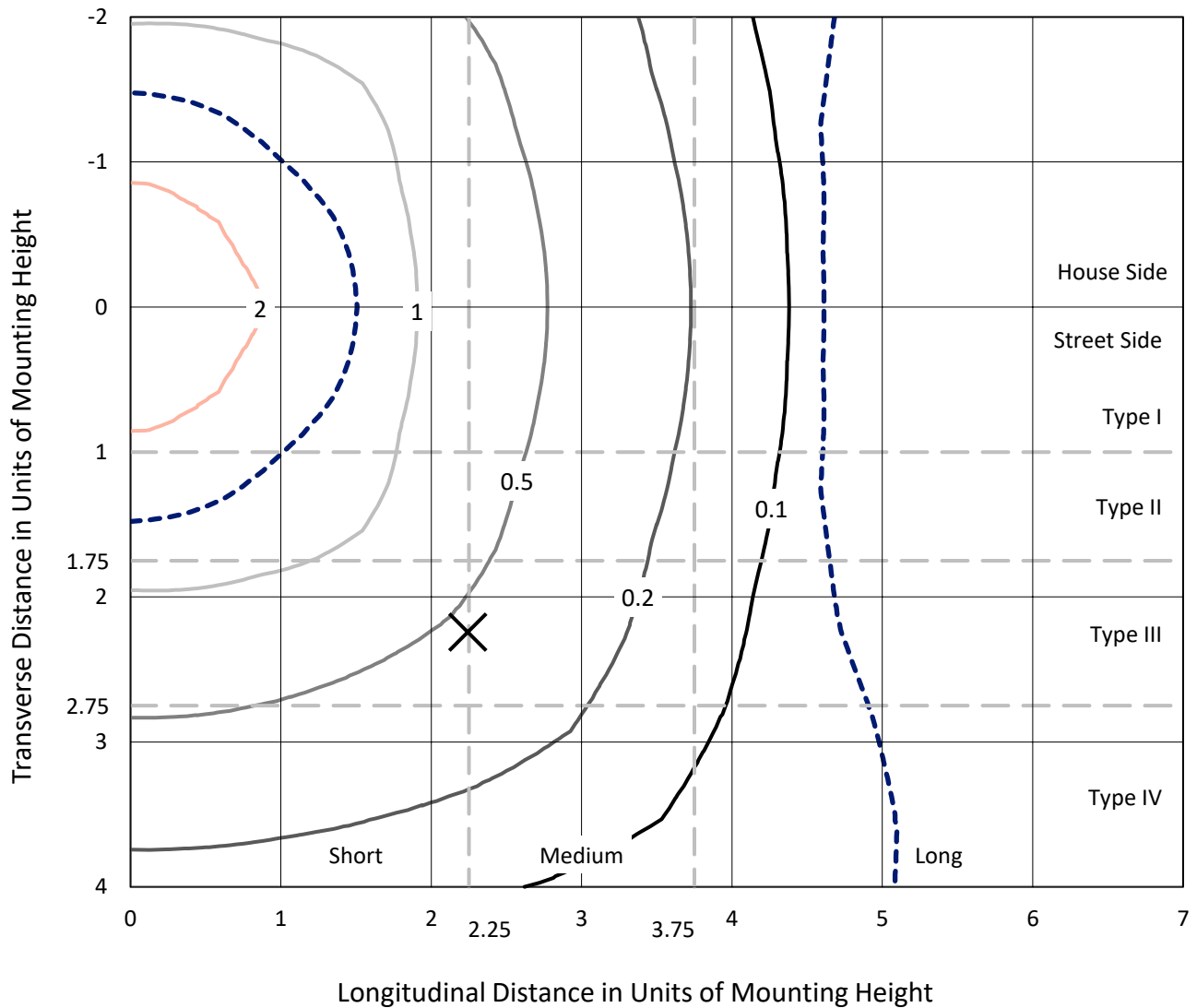
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P399848  
 CATALOG NUMBER: ARCH-L-PA3-200-730-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

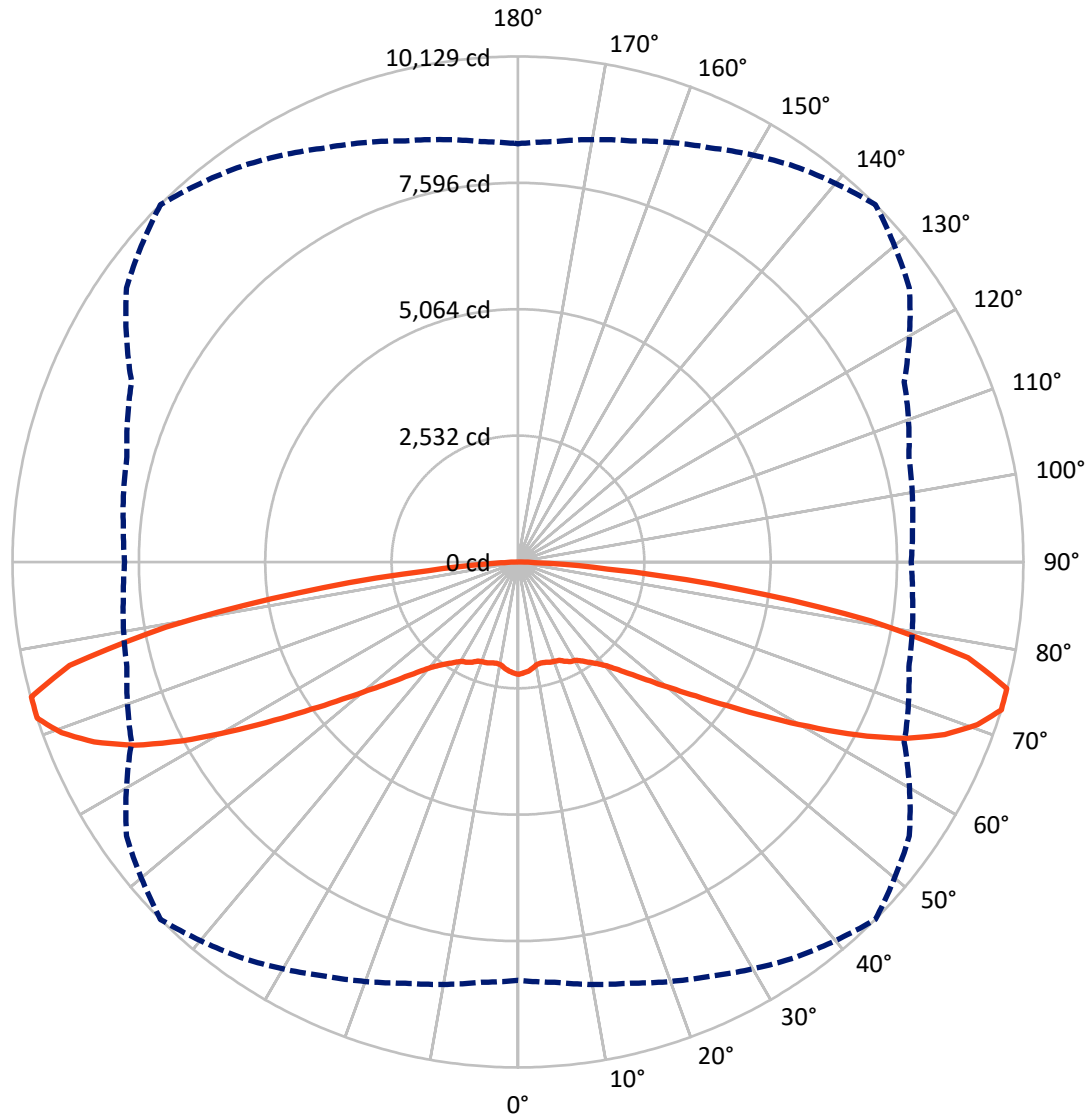
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - N/A

REPORT NUMBER: P399848  
CATALOG NUMBER: ARCH-L-PA3-200-730-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P399848  
 CATALOG NUMBER: ARCH-L-PA3-200-730-U-5WQ

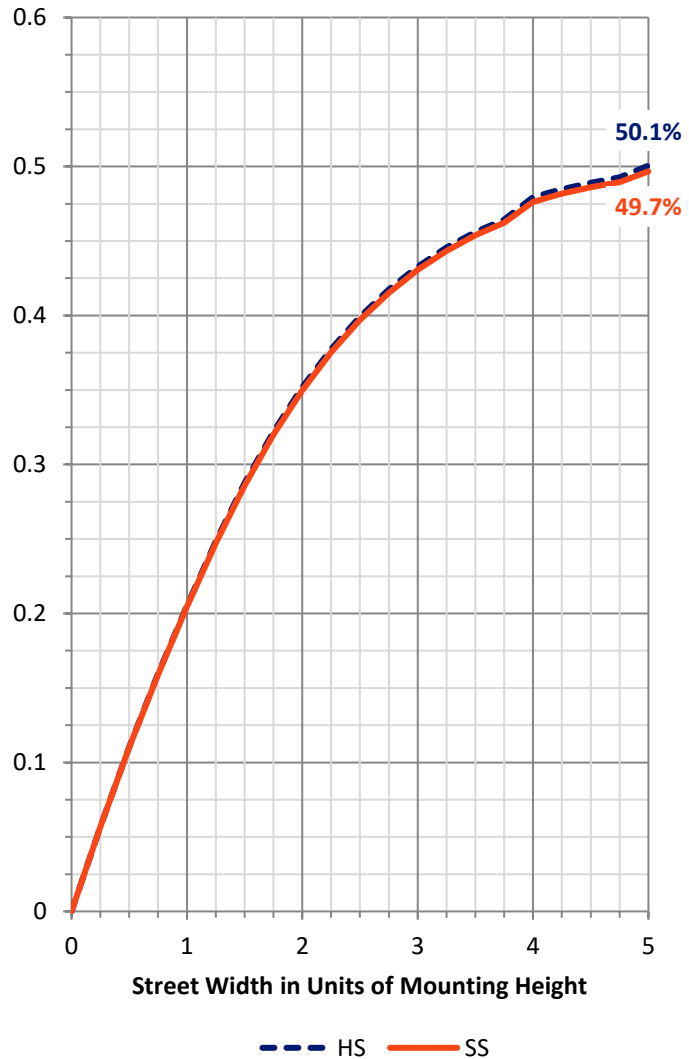
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13623.0	0.0	13623.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13623.0	0.0	13623.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27246.0	0.0	27246.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.7	0.8
10°-20°	600.1	2.2
20°-30°	1019.7	3.7
30°-40°	1555.3	5.7
40°-50°	2561.0	9.4
50°-60°	4472.3	16.4
60°-70°	7497.9	27.5
70°-80°	8024.2	29.5
80°-90°	1308.7	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°	27246.0	100.0
0°-180°	27246.0	100.0



REPORT NUMBER: P399848

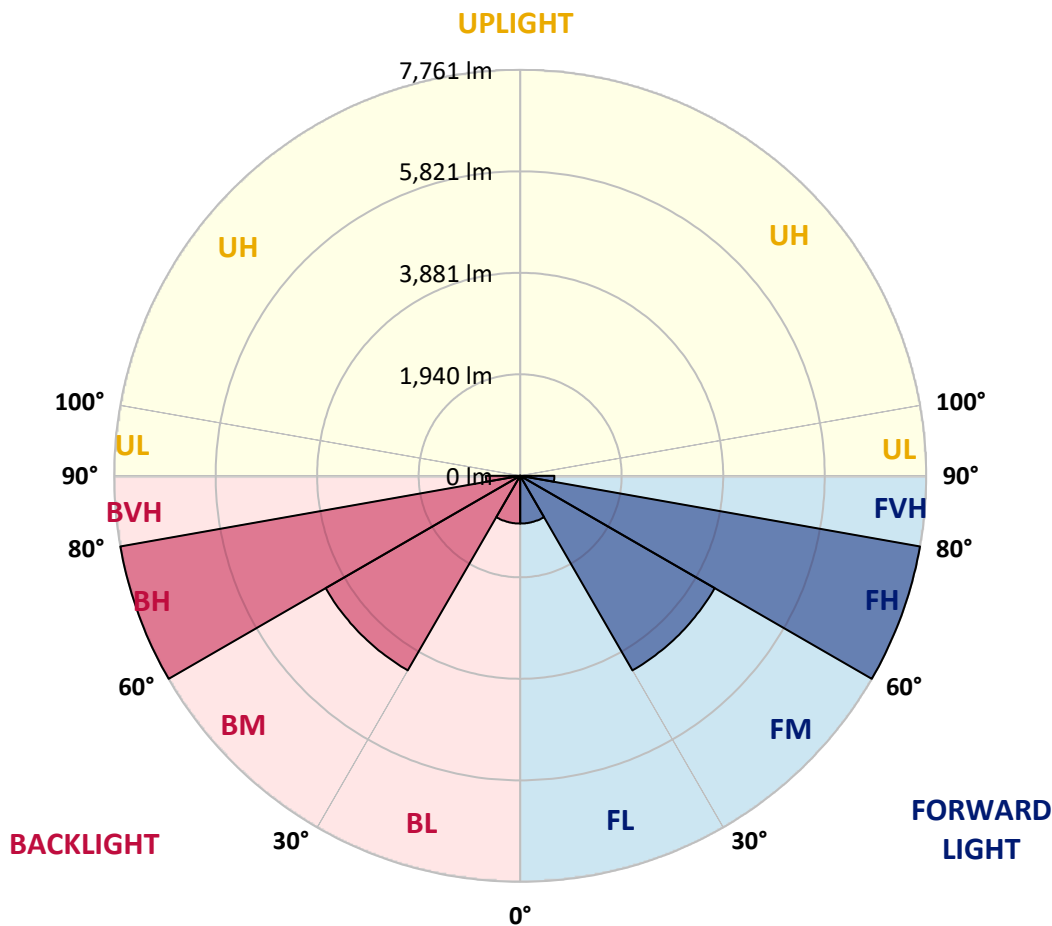
CATALOG NUMBER: ARCH-L-PA3-200-730-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	913.3	3.4			
FM (30°-60°)	4294.3	15.8			
FH (60°-80°)	7761.1	28.5			G4/12000
FVH (80°-90°)	654.4	2.4			G4/750
BL (0°-30°)	913.3	3.4	B2/1000		
BM (30°-60°)	4294.3	15.8	B3/5000		
BH (60°-80°)	7761.1	28.5	B5		G4/12000
BVH (80°-90°)	654.4	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: P399848

CATALOG NUMBER: ARCH-L-PA3-200-730-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2254.6	2254.6	2254.6	2254.6	2254.6	2254.6	2254.6	2254.6	2254.6	2254.6	2254.6
2.5°	2240.7	2240.7	2240.7	2237.2	2230.3	2226.8	2219.8	2223.3	2223.3	2223.3	2223.3
5°	2212.9	2212.9	2209.4	2205.9	2199.0	2195.5	2188.5	2195.5	2195.5	2195.5	2195.5
7.5°	2160.7	2164.2	2164.2	2160.7	2150.3	2146.8	2136.3	2139.8	2139.8	2143.3	2139.8
10°	2132.9	2132.9	2129.4	2112.0	2094.6	2087.6	2084.1	2094.6	2105.0	2115.5	2115.5
12.5°	2132.9	2132.9	2125.9	2098.1	2073.7	2073.7	2073.7	2087.6	2108.5	2129.4	2132.9
15°	2143.3	2143.3	2129.4	2098.1	2084.1	2087.6	2087.6	2101.5	2125.9	2153.7	2157.2
17.5°	2150.3	2150.3	2132.9	2101.5	2101.5	2112.0	2105.0	2115.5	2139.8	2171.1	2174.6
20°	2160.7	2160.7	2136.3	2112.0	2112.0	2122.4	2122.4	2132.9	2153.7	2185.0	2188.5
22.5°	2181.6	2178.1	2153.7	2132.9	2132.9	2139.8	2146.8	2160.7	2178.1	2205.9	2212.9
25°	2205.9	2205.9	2185.0	2181.6	2188.5	2205.9	2202.4	2199.0	2205.9	2230.3	2240.7
27.5°	2219.8	2219.8	2205.9	2216.4	2244.2	2258.1	2240.7	2226.8	2226.8	2251.2	2254.6
30°	2265.1	2261.6	2247.7	2254.6	2279.0	2286.0	2275.5	2258.1	2268.6	2296.4	2299.9
32.5°	2341.6	2341.6	2320.7	2320.7	2338.1	2366.0	2331.2	2320.7	2334.7	2366.0	2369.5
35°	2459.9	2459.9	2432.1	2418.2	2432.1	2470.4	2418.2	2414.7	2439.0	2473.8	2477.3
37.5°	2609.5	2609.5	2592.1	2557.3	2560.8	2585.2	2539.9	2536.5	2581.7	2620.0	2620.0
40°	2797.4	2807.9	2790.5	2748.7	2734.8	2738.3	2703.5	2707.0	2759.1	2804.4	2804.4
42.5°	3030.5	3037.5	3009.7	2978.3	2961.0	2950.5	2915.7	2922.7	2985.3	3044.5	3044.5
45°	3312.4	3315.8	3288.0	3249.7	3228.9	3221.9	3187.1	3204.5	3274.1	3336.7	3333.2
47.5°	3629.0	3632.5	3604.6	3566.4	3552.4	3562.9	3528.1	3528.1	3590.7	3642.9	3635.9
50°	3987.4	3994.3	3963.0	3945.6	3935.2	3963.0	3921.3	3883.0	3924.7	3976.9	3970.0
52.5°	4384.0	4401.4	4380.5	4387.5	4425.8	4460.6	4391.0	4307.5	4328.3	4363.1	4352.7
55°	4864.2	4885.0	4892.0	4916.4	5017.3	5076.4	4961.6	4822.4	4812.0	4815.5	4798.1
57.5°	5403.5	5417.4	5462.6	5518.3	5727.1	5821.0	5640.1	5400.0	5323.4	5278.2	5267.8
60°	5946.3	5970.6	6082.0	6196.8	6516.9	6687.4	6409.0	6005.4	5841.9	5758.4	5741.0
62.5°	6492.5	6541.2	6722.2	6917.0	7383.2	7637.2	7209.3	6624.7	6388.1	6283.8	6255.9
65°	7125.8	7184.9	7404.1	7651.2	8169.6	8528.0	8009.5	7264.9	7010.9	6871.8	6837.0
67.5°	7866.9	7929.5	8107.0	8381.8	8872.4	9223.8	8764.6	7919.1	7588.5	7411.1	7383.2
70°	8475.8	8531.4	8722.8	9001.2	9366.5	9766.6	9328.2	8441.0	8141.7	8016.5	7999.1
72.5°	8381.8	8454.9	8736.7	9154.2	9676.1	10128.5	9575.2	8541.9	8110.4	7936.5	7880.8
75°	7320.6	7400.6	7734.7	8489.7	9443.0	10118.0	9216.9	7870.4	7362.4	7216.2	7188.4
77.5°	4846.8	4923.3	5487.0	6676.9	8246.1	9220.4	8134.8	6593.4	5775.8	5424.3	5403.5
80°	1958.9	2056.3	2595.6	3858.6	5845.4	7167.5	6033.2	4220.5	2846.1	2296.4	2185.0
82.5°	455.8	542.8	789.8	1423.1	2992.3	4464.0	3253.2	1576.2	915.1	650.6	584.5
85°	191.4	194.8	337.5	462.8	936.0	1802.3	1064.7	574.1	466.2	341.0	334.0
87.5°	73.1	76.5	163.5	194.8	299.2	341.0	361.9	295.7	274.9	170.5	163.5
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)