

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: P348703

Luminaire Tested: **ARCH-N-PA1-20-730-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348703  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-N-PA1-20-730-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 420mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3185 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G1

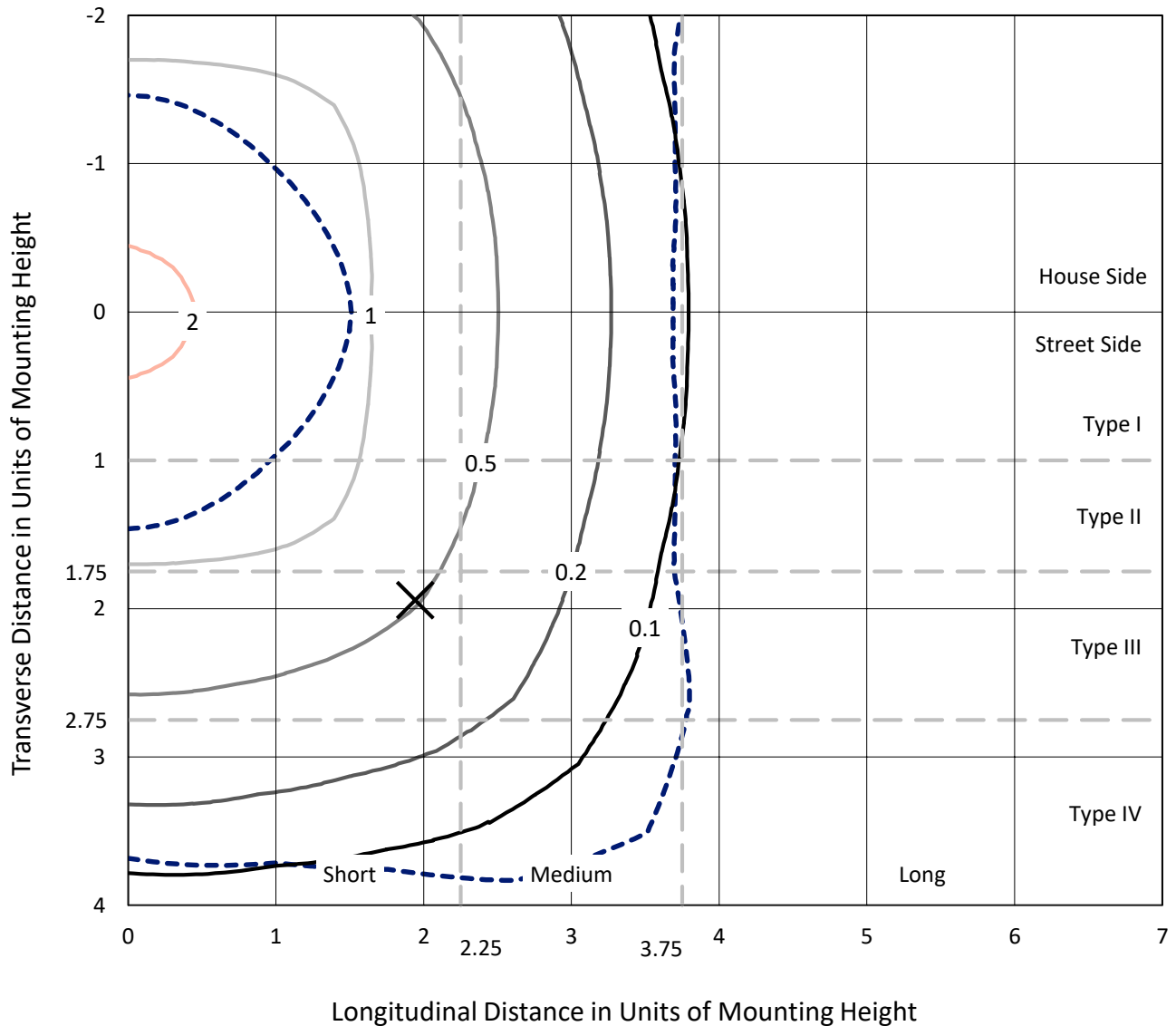
Input Watts (W): 24  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

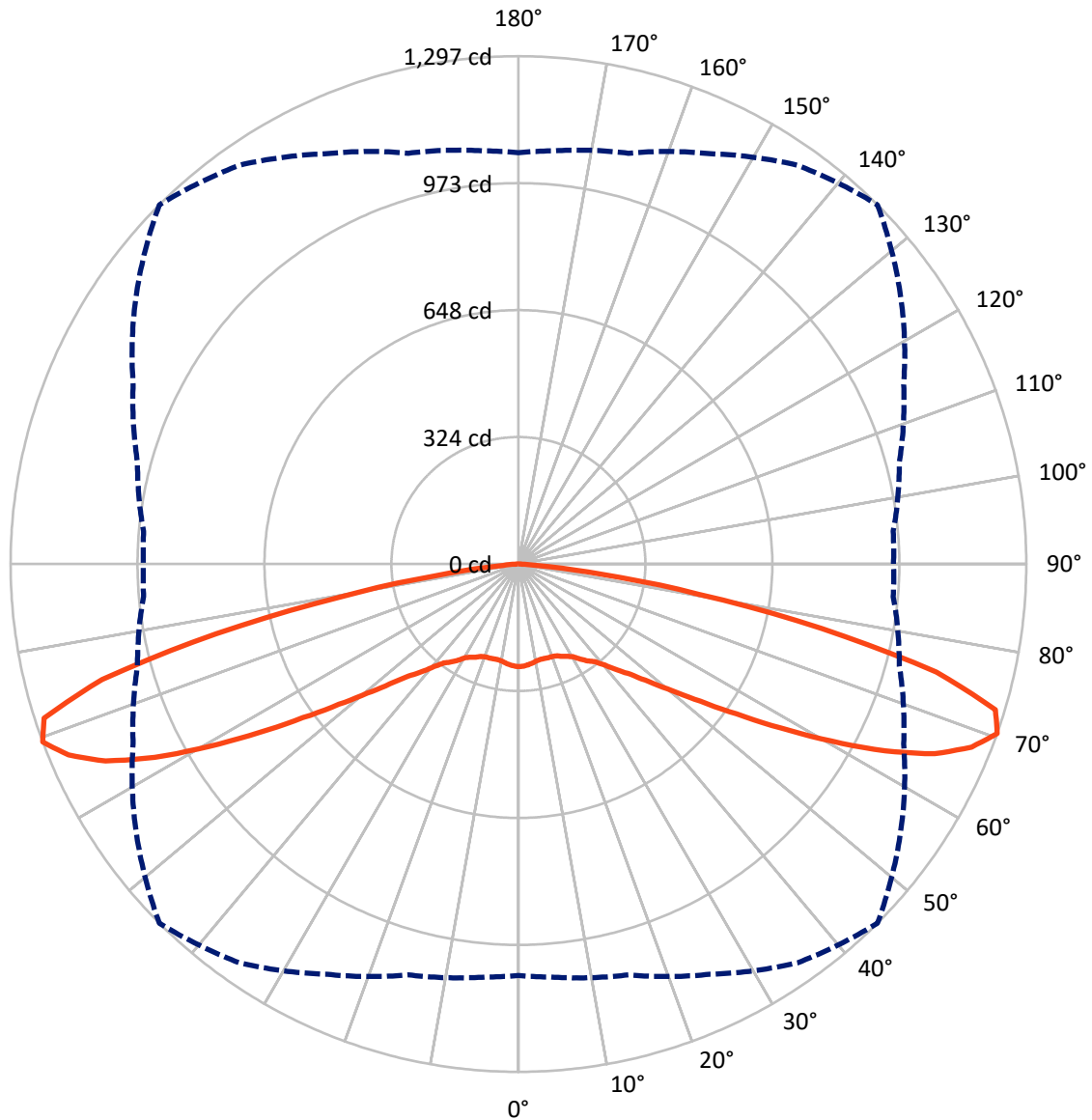
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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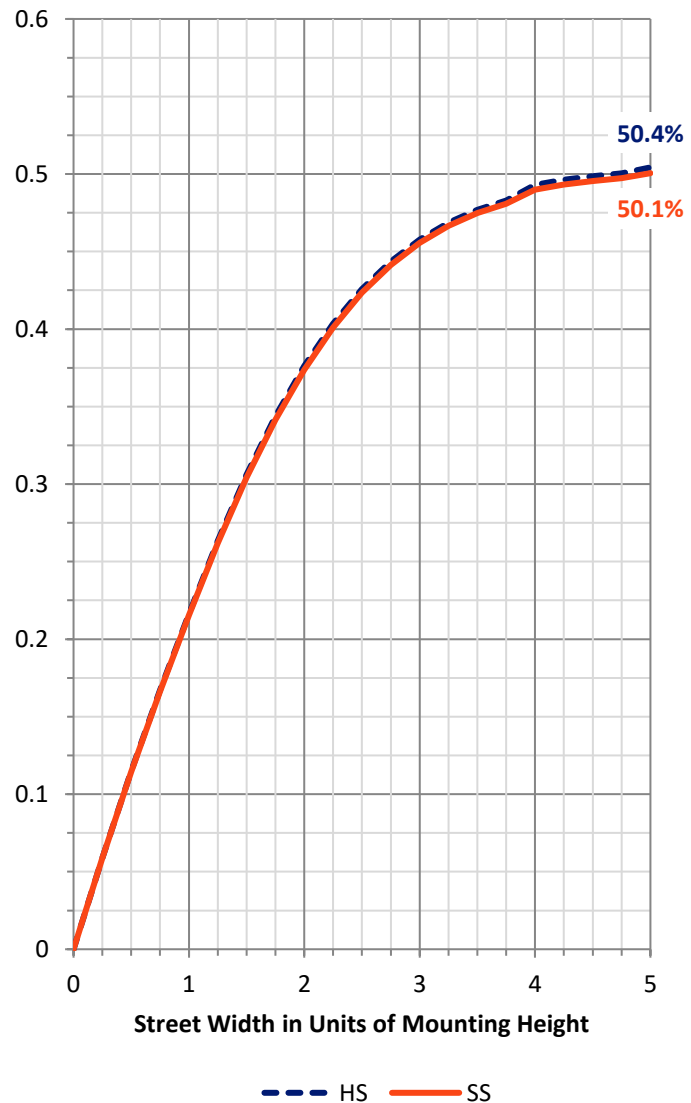
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1592.5	0.0	1592.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1592.5	0.0	1592.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3185.0	0.0	3185.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.5	0.8
10°-20°	71.5	2.2
20°-30°	121.8	3.8
30°-40°	190.4	6.0
40°-50°	322.7	10.1
50°-60°	588.4	18.5
60°-70°	1013.0	31.8
70°-80°	794.0	24.9
80°-90°	58.9	1.8
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°	3185.0	100.0
0°-180°	3185.0	100.0



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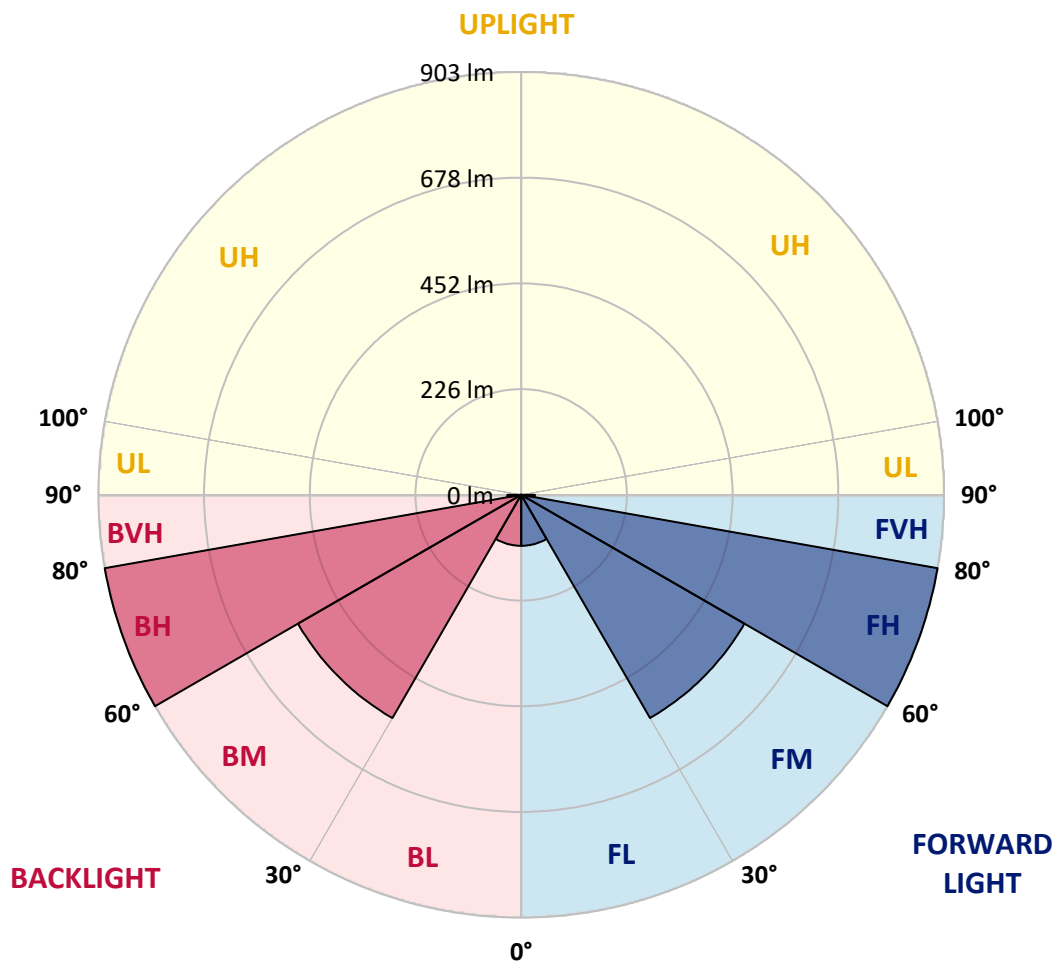
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	108.9	3.4			
FM (30°-60°)	550.7	17.3			
FH (60°-80°)	903.5	28.4			G1/1800
FVH (80°-90°)	29.4	0.9			G1/100
BL (0°-30°)	108.9	3.4	B0/110		
BM (30°-60°)	550.7	17.3	B1/1000		
BH (60°-80°)	903.5	28.4	B2/1000		G1/1800
BVH (80°-90°)	29.4	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	262.1	262.1	262.1	262.1	262.1	262.1	262.1	262.1	262.1	262.1	262.1
2.5°	261.0	261.3	261.0	261.2	260.7	260.9	260.9	260.9	260.8	260.9	260.7
5°	258.6	258.9	258.4	258.6	258.3	258.6	258.8	258.6	258.4	258.5	258.1
7.5°	255.2	255.4	255.1	255.4	255.0	255.5	255.4	255.1	254.8	254.8	254.3
10°	253.3	253.4	252.5	252.2	251.3	251.5	251.8	252.1	252.4	253.1	253.0
12.5°	253.4	253.4	252.1	250.7	249.4	249.7	250.2	251.4	252.6	253.8	253.9
15°	254.4	254.3	252.4	250.2	249.3	250.2	250.5	251.3	253.3	255.3	255.4
17.5°	255.2	255.2	252.2	249.7	249.6	251.1	251.0	251.3	253.5	256.4	256.5
20°	256.5	256.5	252.7	250.0	250.0	251.6	251.7	252.2	254.4	257.7	258.2
22.5°	259.6	259.7	255.7	253.5	253.7	254.6	255.0	255.8	257.8	261.4	262.0
25°	263.9	264.1	260.0	258.8	259.5	261.3	261.1	261.7	263.9	267.4	268.0
27.5°	269.9	269.4	265.6	265.1	265.8	267.1	267.0	267.1	268.9	272.0	272.8
30°	277.7	277.5	274.8	275.1	274.8	274.3	274.5	275.3	276.2	278.8	279.5
32.5°	285.3	285.5	283.8	285.4	287.7	289.3	286.9	284.6	283.5	284.9	285.5
35°	299.0	299.5	296.9	295.8	299.0	303.6	296.8	293.0	295.1	296.9	297.4
37.5°	322.3	322.6	318.2	314.0	311.6	316.1	309.2	309.5	316.9	320.3	320.2
40°	348.8	348.9	346.0	342.3	338.3	339.4	336.6	337.5	342.3	345.4	346.2
42.5°	380.4	380.1	375.5	370.2	369.1	370.1	365.5	364.8	370.4	375.9	376.0
45°	421.4	420.7	414.7	408.9	403.3	401.0	399.8	402.9	410.6	415.6	415.7
47.5°	465.6	463.6	460.4	455.8	450.9	448.6	446.7	448.2	453.8	455.8	456.0
50°	511.0	511.4	512.0	510.2	508.4	507.7	502.8	499.9	501.6	497.9	497.4
52.5°	564.8	565.7	571.8	576.9	580.0	581.6	572.2	562.4	556.9	549.7	547.6
55°	628.3	629.7	638.7	653.0	667.7	675.5	658.6	640.2	623.3	609.9	605.6
57.5°	699.1	701.6	713.9	741.4	771.6	790.1	761.4	728.1	695.4	676.1	672.7
60°	782.2	784.5	801.5	841.0	889.9	917.7	874.2	819.8	779.0	760.6	754.3
62.5°	881.0	881.2	902.2	948.2	1012.9	1051.5	992.7	919.9	877.8	855.6	849.6
65°	987.3	987.8	1009.5	1059.3	1126.2	1168.1	1101.7	1025.9	974.4	941.7	937.0
67.5°	1062.4	1064.6	1087.5	1147.3	1209.9	1247.7	1179.0	1093.3	1033.9	994.8	990.9
70°	1050.4	1059.0	1085.9	1155.8	1242.8	1296.7	1191.6	1085.3	1006.9	960.7	957.5
72.5°	916.1	932.6	968.4	1060.1	1199.3	1273.5	1123.2	972.0	883.3	844.0	838.1
75°	623.8	650.7	704.7	836.9	1024.6	1102.7	945.6	775.0	691.6	637.2	633.2
77.5°	278.1	284.3	352.7	505.0	707.0	791.9	687.0	507.0	380.5	303.5	287.3
80°	77.5	78.5	104.7	188.1	353.9	465.3	379.9	197.5	111.0	78.3	73.7
82.5°	24.7	26.8	32.7	48.8	118.9	212.3	122.1	52.7	37.5	29.9	27.0
85°	12.0	11.9	16.5	19.8	30.3	47.0	32.3	24.4	21.4	14.2	12.9
87.5°	5.1	5.2	7.7	7.0	8.8	7.6	10.4	11.0	11.5	6.3	5.5
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)