

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: P348708

Luminaire Tested: **ARCH-N-PA1-10-740-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348708  
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-PA1-10-740-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 270mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2302 lumens  
Efficiency: N/A  
Efficacy: 164.4 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): 14  
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

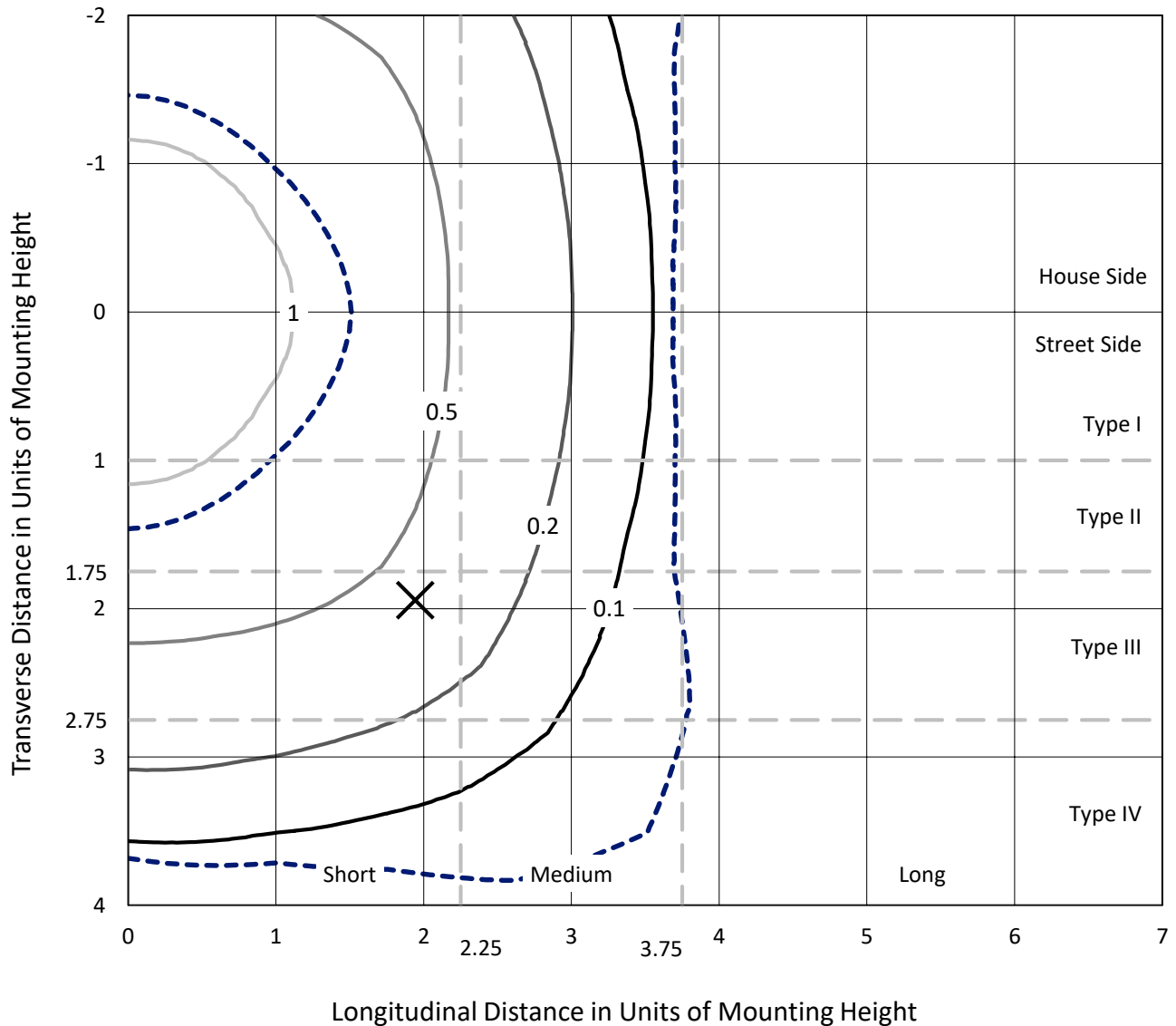




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### Iso-Footcandle Lines of Horizontal Illumination

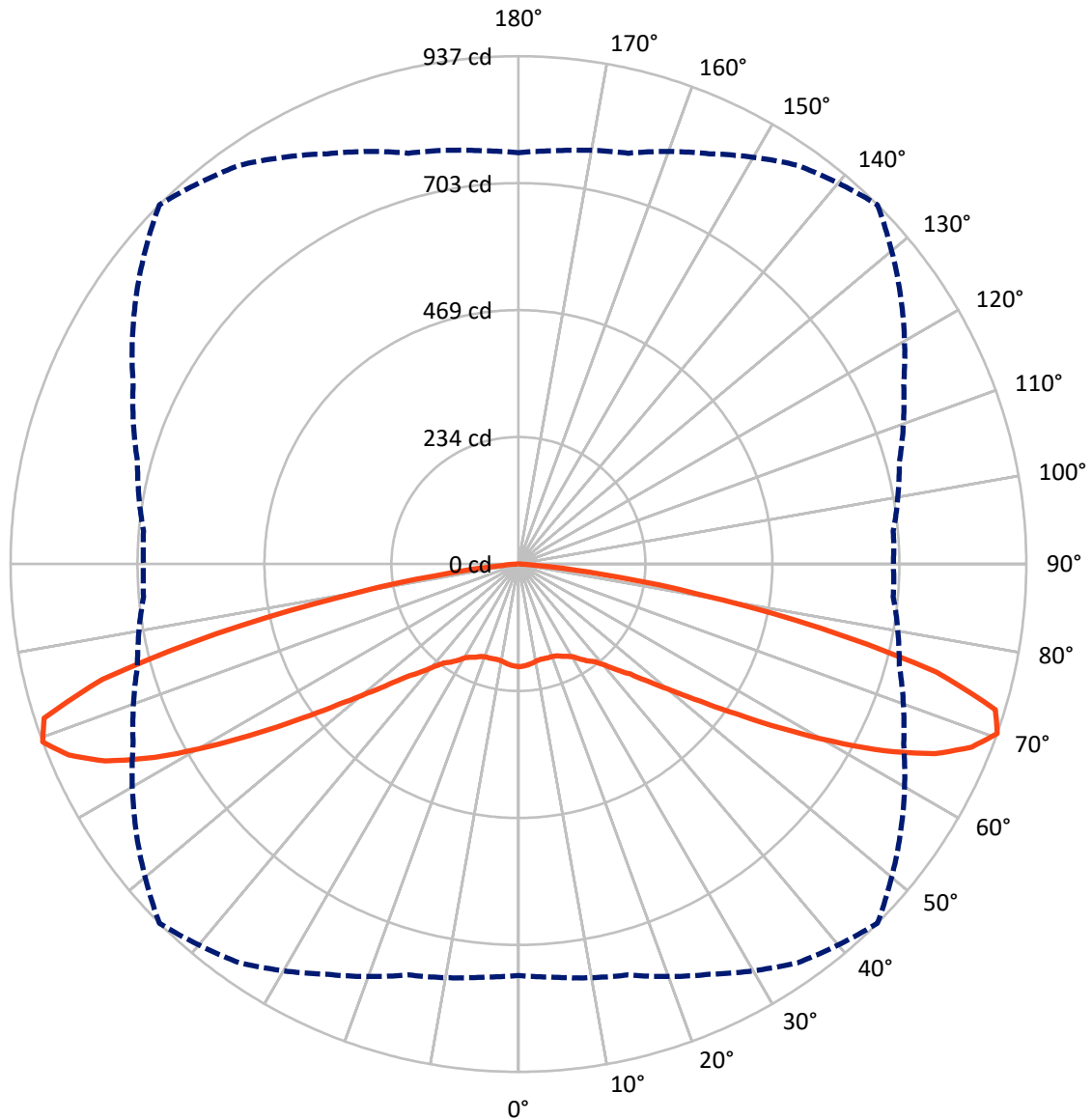
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.9 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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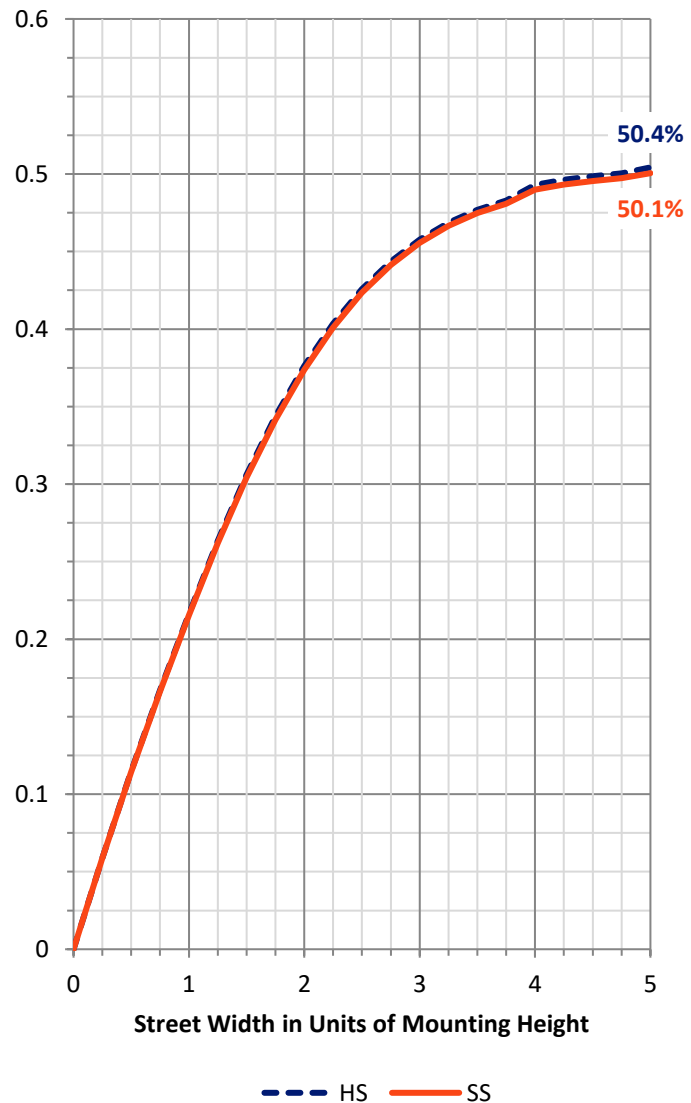
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1151.0	0.0	1151.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1151.0	0.0	1151.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2302.0	0.0	2302.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.7	0.8
10°-20°	51.7	2.2
20°-30°	88.1	3.8
30°-40°	137.6	6.0
40°-50°	233.2	10.1
50°-60°	425.3	18.5
60°-70°	732.1	31.8
70°-80°	573.9	24.9
80°-90°	42.6	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°	2302.0	100.0
0°-180°	2302.0	100.0



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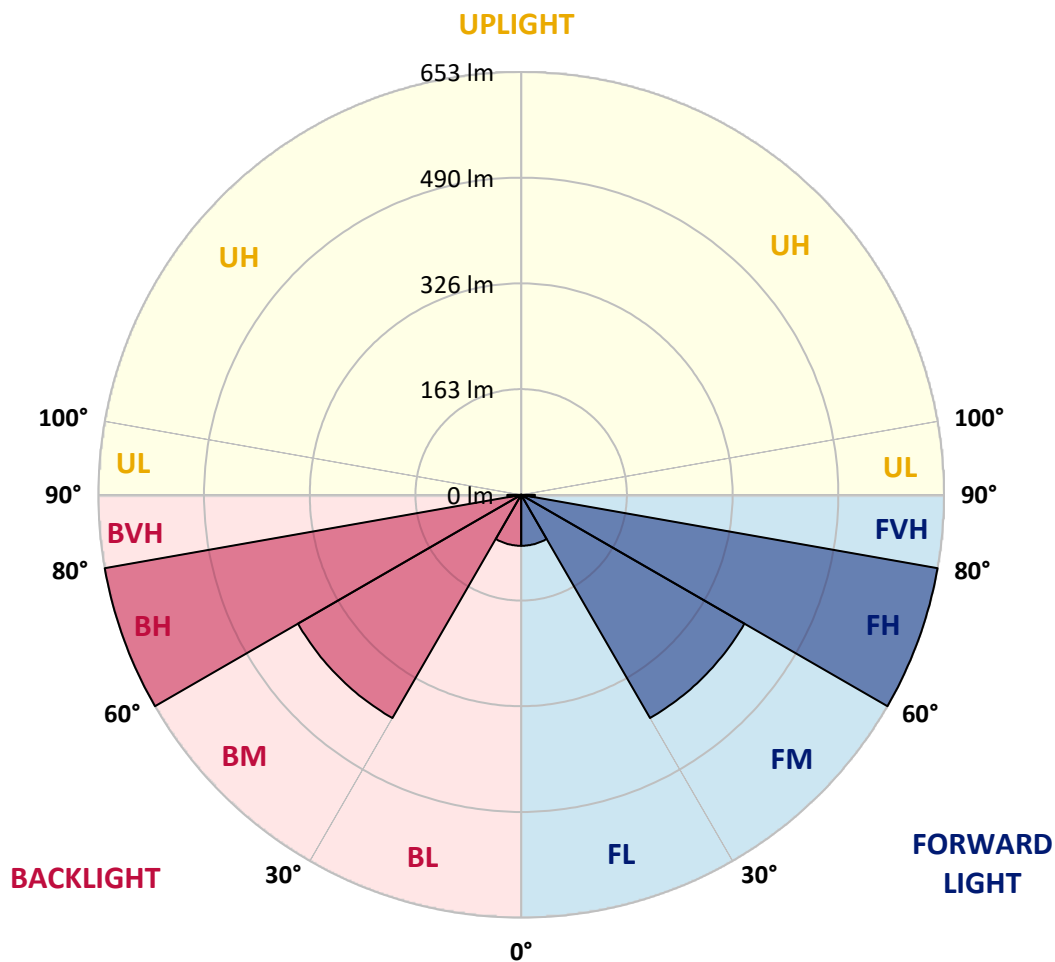
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	78.7	3.4			
FM	(30°-60°)	398.0	17.3			
FH	(60°-80°)	653.0	28.4			G0/660
FVH	(80°-90°)	21.3	0.9			G1/100
BL	(0°-30°)	78.7	3.4	B0/110		
BM	(30°-60°)	398.0	17.3	B1/1000		
BH	(60°-80°)	653.0	28.4	B2/1000		G0/660
BVH	(80°-90°)	21.3	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°	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5
2.5°	188.6	188.8	188.6	188.8	188.4	188.5	188.5	188.5	188.5	188.5	188.4
5°	186.9	187.1	186.8	186.9	186.7	186.9	187.0	186.9	186.8	186.9	186.6
7.5°	184.4	184.6	184.4	184.6	184.3	184.7	184.6	184.4	184.1	184.1	183.8
10°	183.1	183.1	182.5	182.3	181.6	181.8	182.0	182.2	182.4	182.9	182.8
12.5°	183.1	183.1	182.2	181.2	180.2	180.5	180.9	181.7	182.6	183.4	183.5
15°	183.9	183.8	182.4	180.9	180.2	180.9	181.1	181.6	183.1	184.5	184.6
17.5°	184.4	184.4	182.3	180.5	180.4	181.5	181.4	181.6	183.2	185.3	185.4
20°	185.4	185.4	182.7	180.7	180.7	181.8	181.9	182.3	183.9	186.3	186.6
22.5°	187.6	187.7	184.8	183.2	183.4	184.0	184.3	184.9	186.3	188.9	189.4
25°	190.7	190.9	187.9	187.0	187.6	188.8	188.7	189.2	190.7	193.3	193.7
27.5°	195.1	194.7	192.0	191.6	192.1	193.0	193.0	193.0	194.3	196.6	197.1
30°	200.7	200.6	198.6	198.8	198.6	198.3	198.4	199.0	199.7	201.5	202.0
32.5°	206.2	206.4	205.1	206.3	208.0	209.1	207.3	205.7	204.9	205.9	206.4
35°	216.1	216.5	214.6	213.8	216.1	219.5	214.5	211.8	213.3	214.6	215.0
37.5°	232.9	233.2	230.0	226.9	225.2	228.4	223.5	223.7	229.1	231.5	231.4
40°	252.1	252.2	250.1	247.4	244.5	245.3	243.3	243.9	247.4	249.6	250.2
42.5°	275.0	274.7	271.4	267.6	266.7	267.5	264.2	263.7	267.7	271.7	271.8
45°	304.6	304.1	299.7	295.5	291.5	289.8	289.0	291.2	296.7	300.4	300.5
47.5°	336.5	335.0	332.8	329.4	325.9	324.2	322.9	323.9	328.0	329.4	329.6
50°	369.3	369.6	370.1	368.8	367.5	367.0	363.4	361.3	362.5	359.9	359.5
52.5°	408.2	408.8	413.3	417.0	419.2	420.3	413.6	406.5	402.5	397.3	395.8
55°	454.1	455.1	461.6	472.0	482.6	488.3	476.0	462.7	450.5	440.8	437.7
57.5°	505.3	507.1	516.0	535.8	557.7	571.0	550.3	526.3	502.6	488.6	486.2
60°	565.3	567.0	579.3	607.8	643.2	663.2	631.9	592.5	563.0	549.7	545.2
62.5°	636.7	636.9	652.1	685.3	732.1	760.0	717.5	664.8	634.5	618.4	614.1
65°	713.6	714.0	729.6	765.6	813.9	844.2	796.3	741.4	704.3	680.6	677.3
67.5°	767.9	769.5	786.0	829.2	874.5	901.8	852.2	790.2	747.2	719.0	716.2
70°	759.2	765.4	784.9	835.3	898.2	937.2	861.2	784.4	727.7	694.4	692.0
72.5°	662.1	674.1	699.9	766.2	866.8	920.5	811.8	702.5	638.4	610.0	605.8
75°	450.9	470.3	509.4	604.9	740.5	797.0	683.4	560.1	499.8	460.5	457.6
77.5°	201.0	205.4	254.9	365.0	511.0	572.3	496.6	366.4	275.0	219.4	207.7
80°	56.0	56.7	75.7	135.9	255.8	336.3	274.6	142.8	80.3	56.6	53.3
82.5°	17.8	19.3	23.6	35.3	86.0	153.4	88.3	38.1	27.1	21.6	19.5
85°	8.7	8.6	12.0	14.3	21.9	34.0	23.4	17.7	15.5	10.3	9.3
87.5°	3.7	3.7	5.6	5.0	6.4	5.5	7.5	7.9	8.3	4.6	4.0
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)