

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: P348702

Luminaire Tested: **ARCH-N-PA1-19-730-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348702  
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-PA1-19-730-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 370mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2812 lumens  
Efficiency: N/A  
Efficacy: 148.0 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

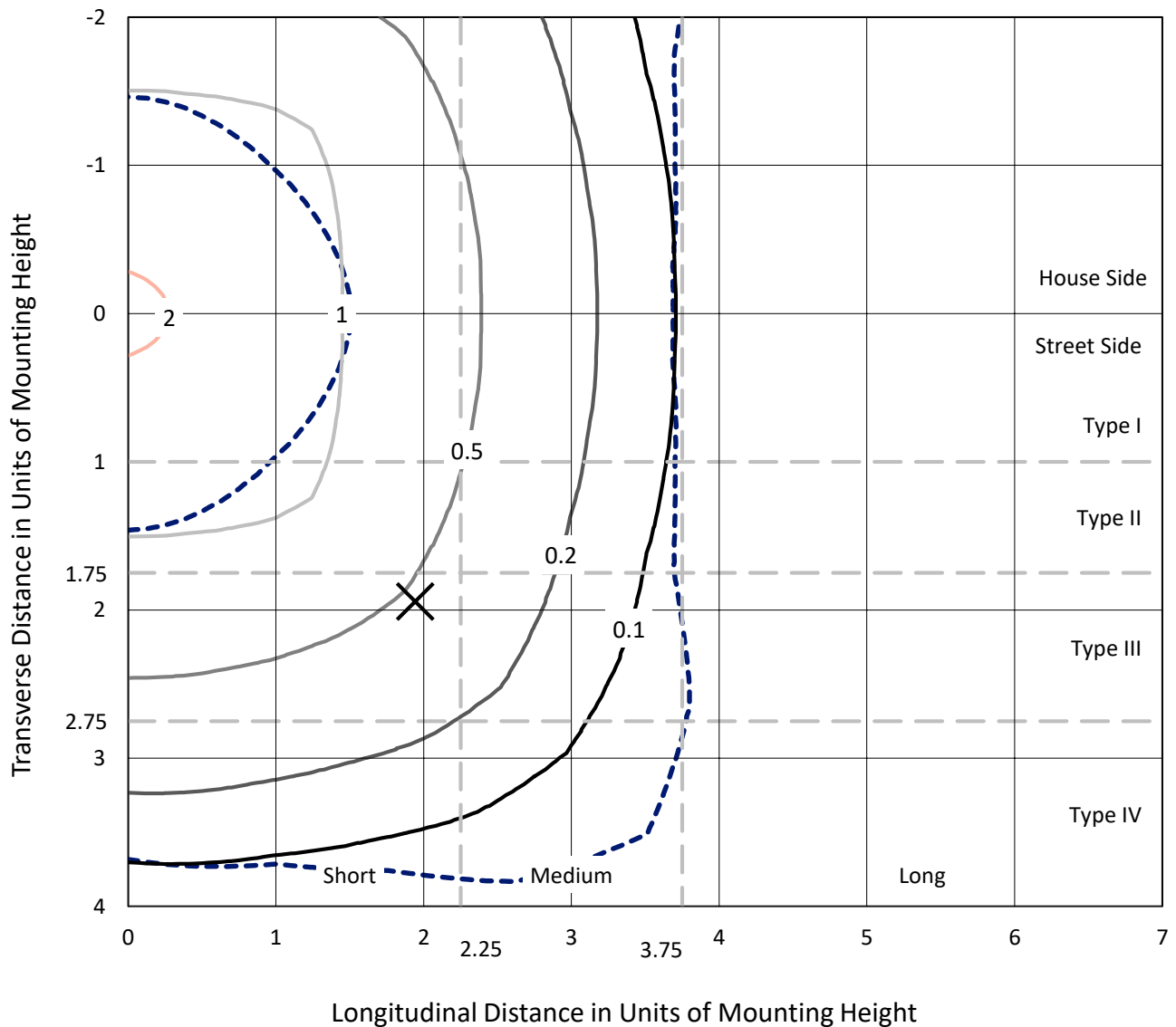
Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

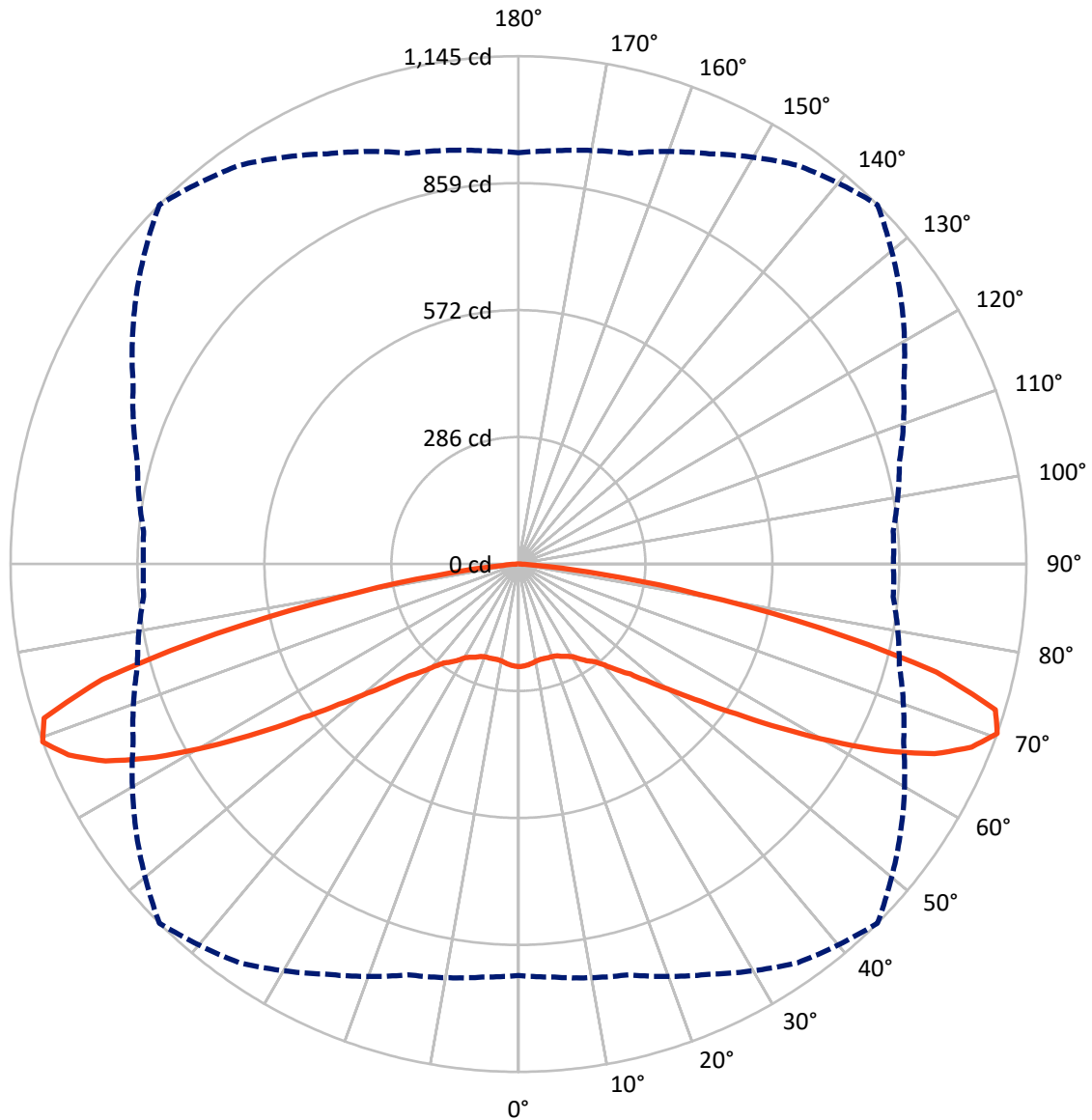
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 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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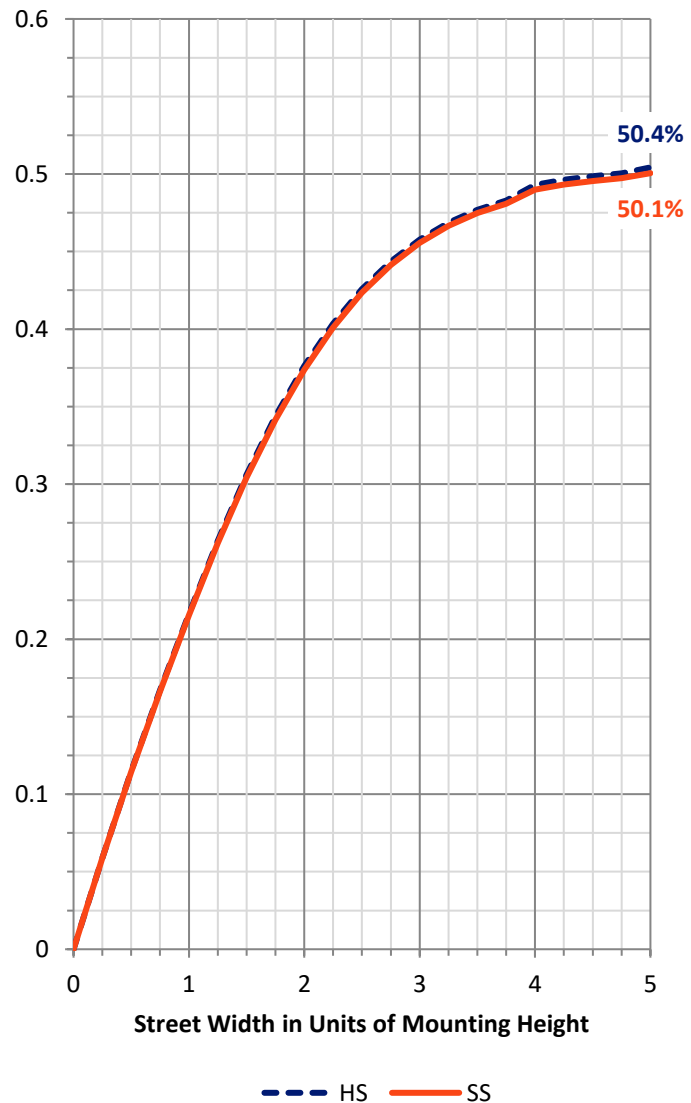
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1406.0	0.0	1406.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1406.0	0.0	1406.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2812.0	0.0	2812.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.6	0.8
10°-20°	63.1	2.2
20°-30°	107.6	3.8
30°-40°	168.1	6.0
40°-50°	284.9	10.1
50°-60°	519.5	18.5
60°-70°	894.3	31.8
70°-80°	701.0	24.9
80°-90°	52.0	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°	2812.0	100.0
0°-180°	2812.0	100.0



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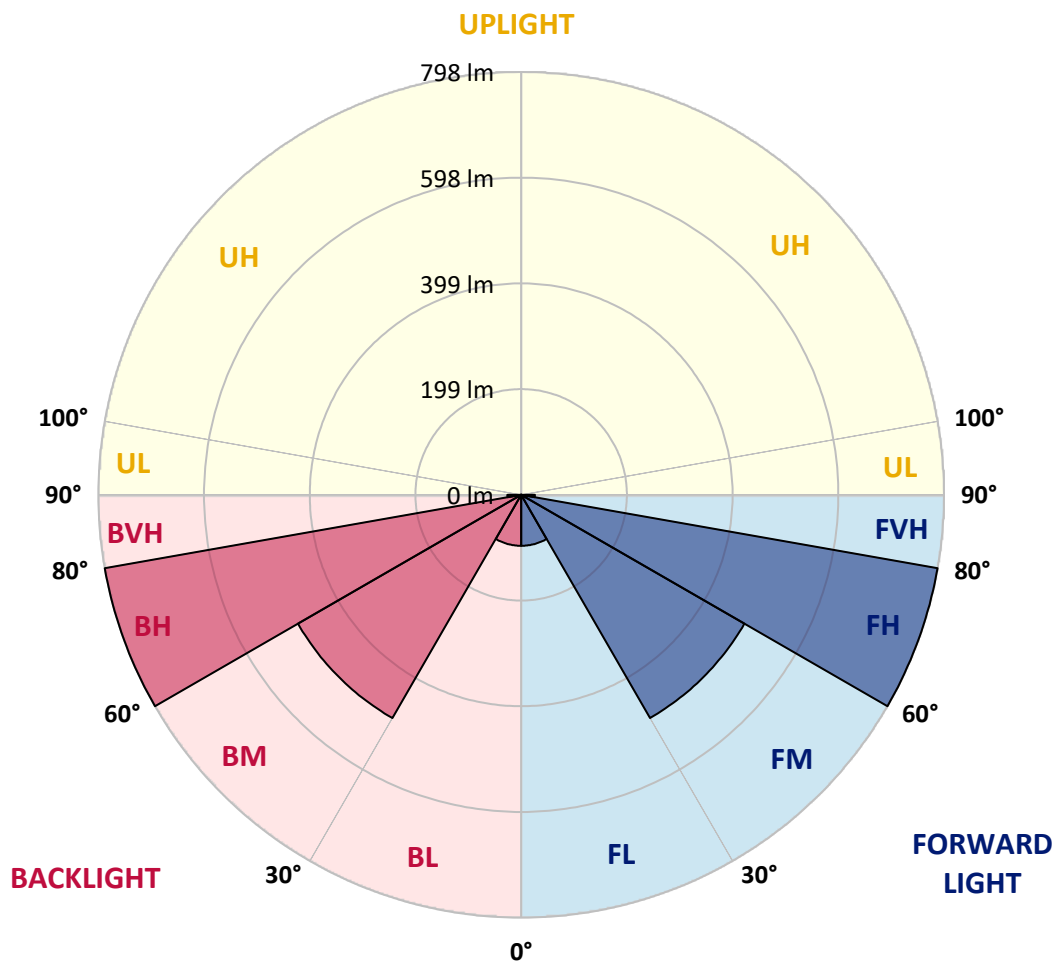
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	96.1	3.4			
FM (30°-60°)	486.2	17.3			
FH (60°-80°)	797.7	28.4			G1/1800
FVH (80°-90°)	26.0	0.9			G1/100
BL (0°-30°)	96.1	3.4	B0/110		
BM (30°-60°)	486.2	17.3	B1/1000		
BH (60°-80°)	797.7	28.4	B2/1000		G1/1800
BVH (80°-90°)	26.0	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°	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4
2.5°	230.4	230.7	230.4	230.6	230.1	230.3	230.3	230.3	230.2	230.3	230.1
5°	228.4	228.5	228.2	228.4	228.1	228.4	228.5	228.4	228.2	228.3	227.9
7.5°	225.3	225.5	225.2	225.5	225.1	225.6	225.5	225.2	224.9	224.9	224.5
10°	223.6	223.7	223.0	222.7	221.8	222.0	222.3	222.6	222.9	223.4	223.3
12.5°	223.7	223.7	222.6	221.4	220.2	220.5	220.9	221.9	223.1	224.1	224.2
15°	224.6	224.5	222.9	220.9	220.1	220.9	221.2	221.8	223.6	225.4	225.5
17.5°	225.3	225.3	222.7	220.5	220.4	221.7	221.6	221.8	223.8	226.4	226.5
20°	226.5	226.5	223.1	220.7	220.7	222.1	222.2	222.7	224.6	227.5	228.0
22.5°	229.2	229.3	225.8	223.8	224.0	224.8	225.1	225.8	227.6	230.8	231.3
25°	233.0	233.2	229.6	228.5	229.1	230.7	230.5	231.1	233.0	236.1	236.6
27.5°	238.3	237.8	234.5	234.0	234.7	235.8	235.7	235.8	237.4	240.2	240.8
30°	245.2	245.0	242.6	242.9	242.6	242.2	242.3	243.1	243.9	246.1	246.8
32.5°	251.9	252.1	250.6	252.0	254.0	255.4	253.3	251.2	250.3	251.5	252.1
35°	264.0	264.4	262.1	261.2	264.0	268.1	262.0	258.7	260.5	262.1	262.6
37.5°	284.5	284.8	280.9	277.2	275.1	279.1	273.0	273.3	279.8	282.8	282.7
40°	308.0	308.1	305.5	302.2	298.7	299.6	297.2	297.9	302.2	304.9	305.7
42.5°	335.9	335.6	331.5	326.9	325.8	326.8	322.7	322.1	327.1	331.9	332.0
45°	372.1	371.4	366.1	361.0	356.1	354.0	353.0	355.7	362.5	367.0	367.0
47.5°	411.0	409.3	406.5	402.4	398.1	396.1	394.4	395.7	400.6	402.4	402.6
50°	451.1	451.5	452.1	450.5	448.9	448.3	443.9	441.4	442.9	439.6	439.1
52.5°	498.7	499.4	504.8	509.4	512.1	513.5	505.2	496.5	491.7	485.4	483.5
55°	554.8	556.0	563.9	576.5	589.5	596.4	581.5	565.3	550.3	538.5	534.7
57.5°	617.3	619.4	630.3	654.6	681.3	697.5	672.2	642.8	613.9	596.9	593.9
60°	690.6	692.6	707.7	742.5	785.7	810.2	771.9	723.8	687.8	671.5	666.0
62.5°	777.8	778.0	796.5	837.2	894.3	928.3	876.4	812.1	775.0	755.4	750.1
65°	871.7	872.1	891.3	935.2	994.3	1031.3	972.7	905.7	860.3	831.4	827.3
67.5°	938.0	939.9	960.1	1013.0	1068.2	1101.6	1041.0	965.2	912.8	878.3	874.8
70°	927.4	935.0	958.7	1020.4	1097.2	1144.9	1052.0	958.2	889.0	848.2	845.3
72.5°	808.8	823.4	855.0	935.9	1058.8	1124.4	991.7	858.2	779.9	745.2	740.0
75°	550.8	574.5	622.2	738.9	904.6	973.5	834.8	684.2	610.6	562.6	559.0
77.5°	245.6	251.0	311.4	445.8	624.2	699.1	606.6	447.6	336.0	268.0	253.7
80°	68.5	69.3	92.5	166.0	312.4	410.8	335.4	174.4	98.0	69.1	65.1
82.5°	21.8	23.6	28.8	43.1	105.0	187.4	107.8	46.5	33.1	26.4	23.8
85°	10.6	10.5	14.6	17.5	26.8	41.5	28.6	21.6	18.9	12.6	11.3
87.5°	4.5	4.6	6.8	6.1	7.8	6.7	9.2	9.7	10.1	5.6	4.8
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)