

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: P348712

Luminaire Tested: **ARCH-N-PA1-40-740-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348712  
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-PA1-40-740-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 740mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5680 lumens  
Efficiency: N/A  
Efficacy: 138.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

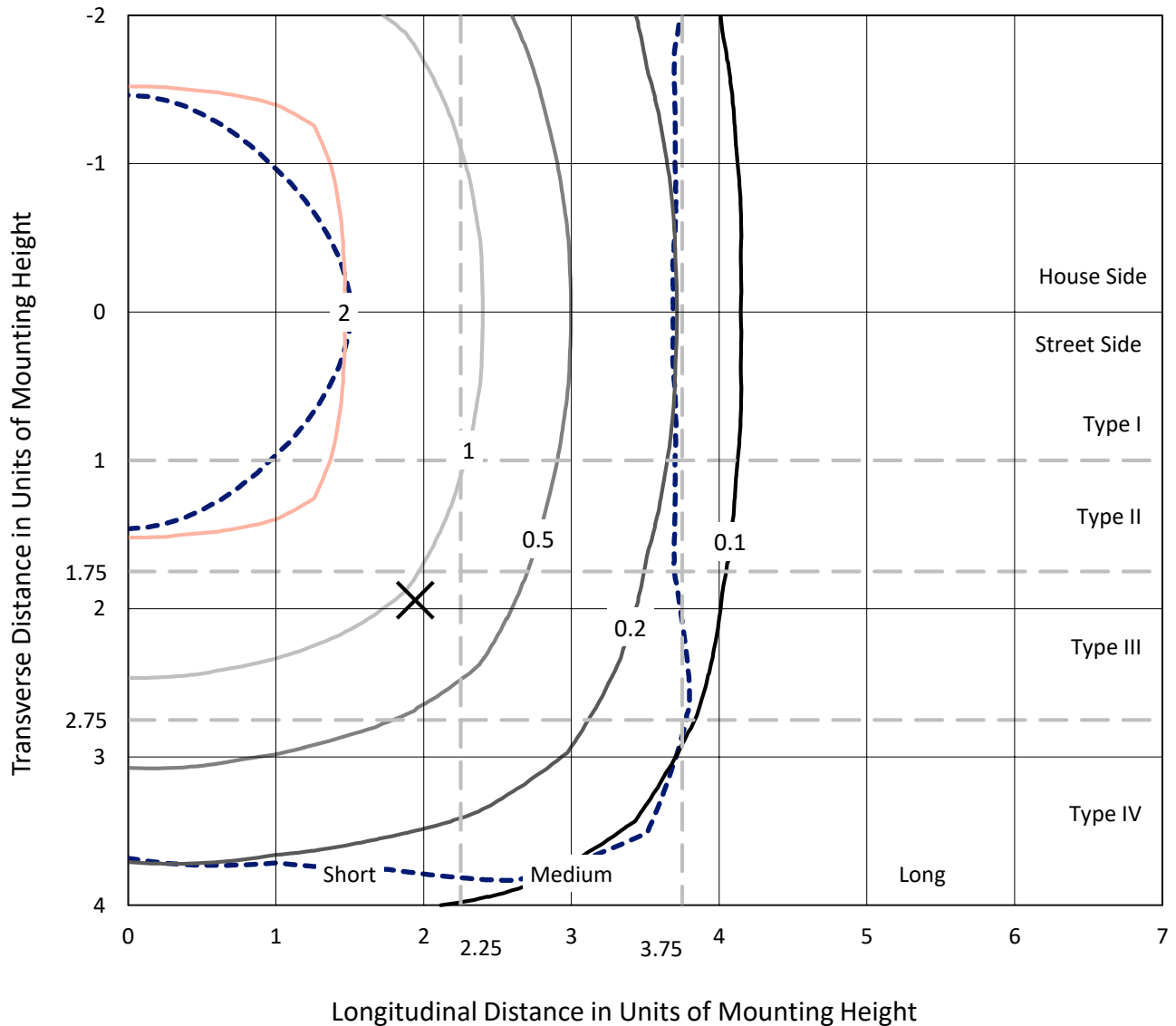
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

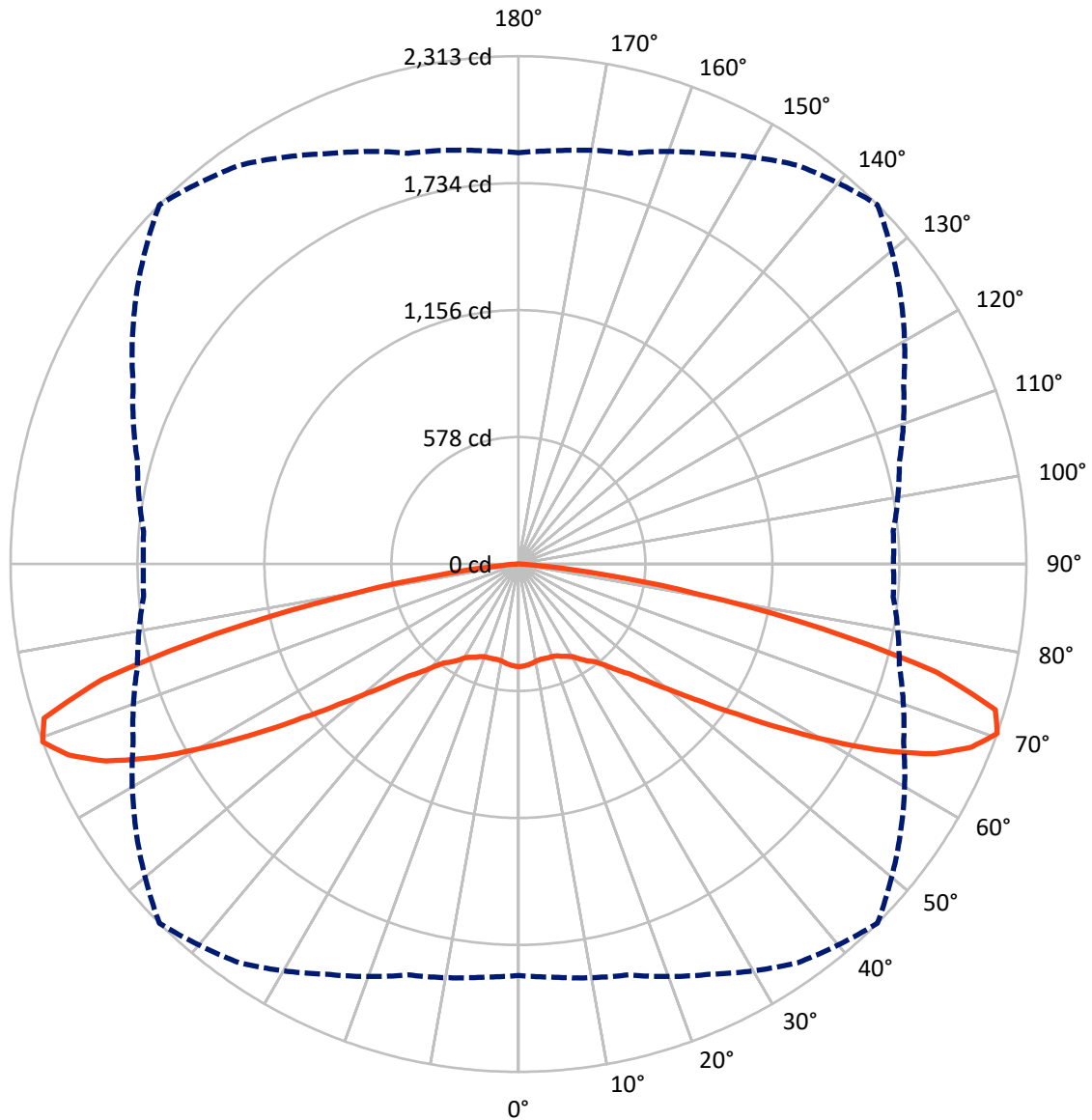
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 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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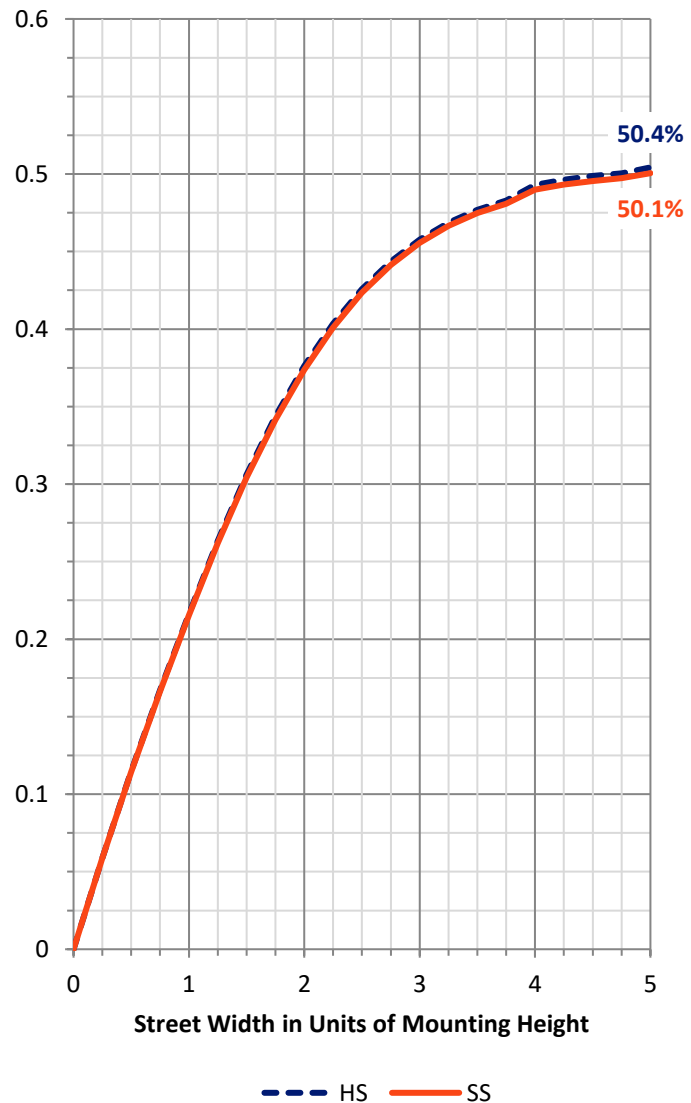
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2840.0	0.0	2840.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2840.0	0.0	2840.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5680.0	0.0	5680.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.6	0.8
10°-20°	127.4	2.2
20°-30°	217.3	3.8
30°-40°	339.5	6.0
40°-50°	575.4	10.1
50°-60°	1049.3	18.5
60°-70°	1806.4	31.8
70°-80°	1416.0	24.9
80°-90°	105.0	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°	5680.0	100.0
0°-180°	5680.0	100.0



REPORT NUMBER: P348712

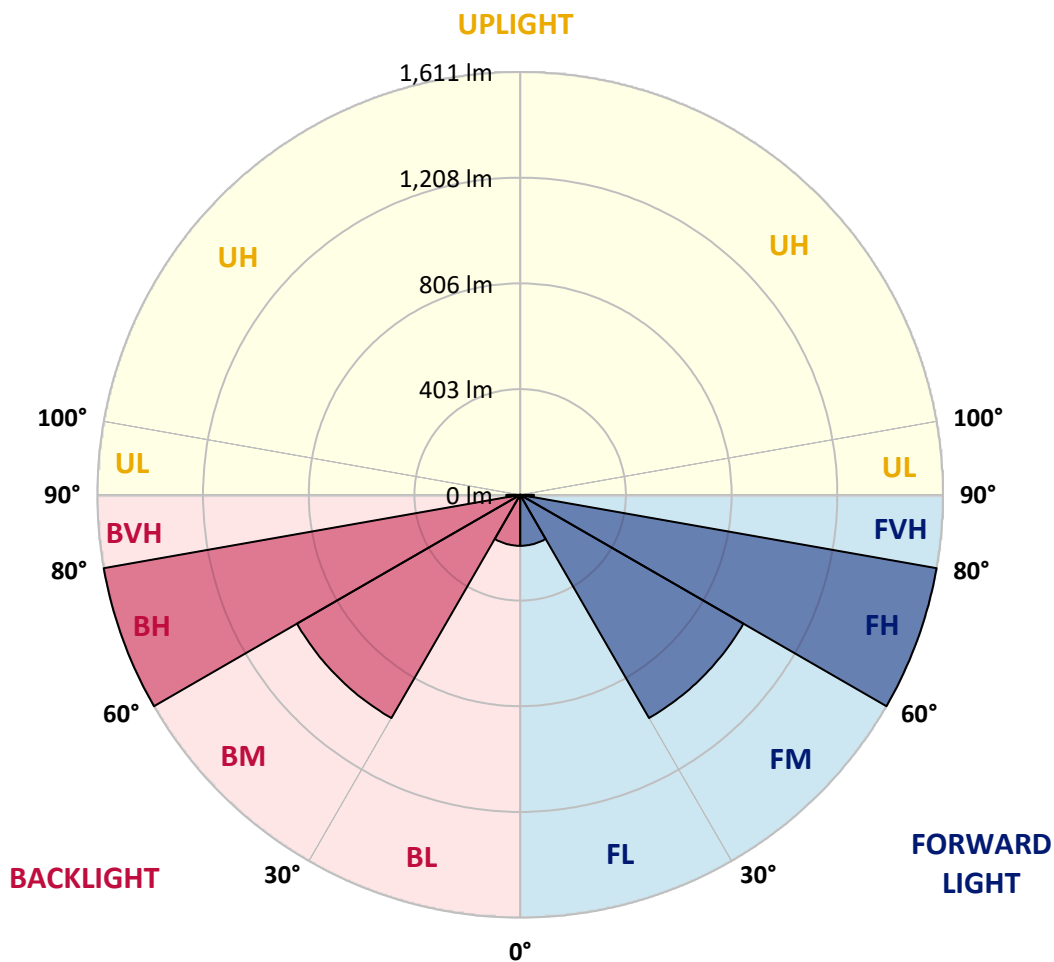
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	194.2	3.4			
FM	(30°-60°)	982.1	17.3			
FH	(60°-80°)	1611.2	28.4			G1/1800
FVH	(80°-90°)	52.5	0.9			G1/100
BL	(0°-30°)	194.2	3.4	B1/500		
BM	(30°-60°)	982.1	17.3	B1/1000		
BH	(60°-80°)	1611.2	28.4	B3/2500		G1/1800
BVH	(80°-90°)	52.5	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	467.5	467.5	467.5	467.5	467.5	467.5	467.5	467.5	467.5	467.5	467.5
2.5°	465.4	466.0	465.4	465.8	464.8	465.2	465.2	465.2	465.0	465.2	464.8
5°	461.3	461.6	460.9	461.3	460.7	461.3	461.5	461.3	460.9	461.1	460.3
7.5°	455.1	455.4	454.9	455.4	454.7	455.6	455.4	454.9	454.3	454.3	453.6
10°	451.7	451.9	450.4	449.8	448.1	448.5	449.1	449.6	450.2	451.3	451.1
12.5°	451.9	451.9	449.6	447.2	444.7	445.3	446.2	448.3	450.6	452.6	452.8
15°	453.7	453.6	450.2	446.2	444.5	446.2	446.8	448.1	451.7	455.3	455.4
17.5°	455.1	455.1	449.8	445.3	445.1	447.7	447.5	448.1	452.1	457.3	457.5
20°	457.5	457.5	450.7	445.9	445.9	448.7	448.9	449.8	453.7	459.6	460.5
22.5°	463.0	463.1	456.0	452.1	452.4	454.1	454.7	456.2	459.8	466.1	467.3
25°	470.7	471.0	463.7	461.5	462.8	466.0	465.6	466.7	470.7	476.9	478.0
27.5°	481.4	480.4	473.7	472.7	474.0	476.3	476.1	476.3	479.5	485.1	486.4
30°	495.3	494.9	490.0	490.6	490.0	489.3	489.4	491.0	492.6	497.2	498.5
32.5°	508.8	509.2	506.2	509.0	513.1	515.9	511.6	507.5	505.6	508.0	509.2
35°	533.2	534.2	529.5	527.6	533.2	541.5	529.3	522.5	526.3	529.5	530.4
37.5°	574.7	575.3	567.4	559.9	555.8	563.7	551.5	552.0	565.2	571.2	571.0
40°	622.1	622.3	617.0	610.4	603.3	605.2	600.3	601.8	610.4	615.9	617.4
42.5°	678.5	677.9	669.6	660.2	658.2	660.0	651.8	650.7	660.6	670.4	670.6
45°	751.6	750.2	739.5	729.2	719.2	715.1	713.0	718.5	732.2	741.2	741.4
47.5°	830.3	826.7	821.1	812.8	804.2	800.0	796.6	799.3	809.2	812.8	813.2
50°	911.3	912.0	913.1	909.9	906.7	905.4	896.6	891.5	894.5	888.0	887.0
52.5°	1007.3	1008.8	1019.7	1028.9	1034.3	1037.1	1020.4	1002.9	993.2	980.4	976.6
55°	1120.6	1123.0	1139.0	1164.5	1190.8	1204.7	1174.5	1141.8	1111.5	1087.7	1080.0
57.5°	1246.8	1251.1	1273.1	1322.2	1376.1	1409.0	1357.9	1298.5	1240.1	1205.7	1199.7
60°	1394.9	1399.0	1429.5	1499.7	1587.1	1636.5	1559.1	1462.0	1389.2	1356.4	1345.3
62.5°	1571.1	1571.5	1608.9	1691.0	1806.4	1875.1	1770.3	1640.4	1565.5	1525.8	1515.1
65°	1760.7	1761.6	1800.3	1889.0	2008.3	2083.1	1964.7	1829.5	1737.8	1679.3	1671.1
67.5°	1894.7	1898.6	1939.4	2046.1	2157.7	2225.2	2102.7	1949.7	1843.7	1774.0	1767.1
70°	1873.2	1888.6	1936.6	2061.1	2216.3	2312.5	2125.0	1935.4	1795.6	1713.3	1707.5
72.5°	1633.7	1663.2	1727.1	1890.5	2138.7	2271.2	2003.1	1733.5	1575.3	1505.2	1494.6
75°	1112.5	1160.4	1256.8	1492.6	1827.2	1966.4	1686.3	1382.1	1233.3	1136.3	1129.2
77.5°	496.0	506.9	629.0	900.5	1260.9	1412.2	1225.2	904.1	678.7	541.3	512.4
80°	138.3	140.0	186.8	335.4	631.1	829.7	677.5	352.3	198.0	139.6	131.5
82.5°	44.0	47.7	58.2	87.0	212.1	378.6	217.8	93.9	66.9	53.4	48.1
85°	21.4	21.2	29.5	35.3	54.1	83.8	57.7	43.6	38.1	25.4	22.9
87.5°	9.0	9.2	13.7	12.4	15.8	13.5	18.6	19.5	20.5	11.3	9.8
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)