

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: P348707

Luminaire Tested: **ARCH-N-PA1-60-730-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348707  
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-PA1-60-730-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7125 lumens  
Efficiency: N/A  
Efficacy: 114.9 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 - G2

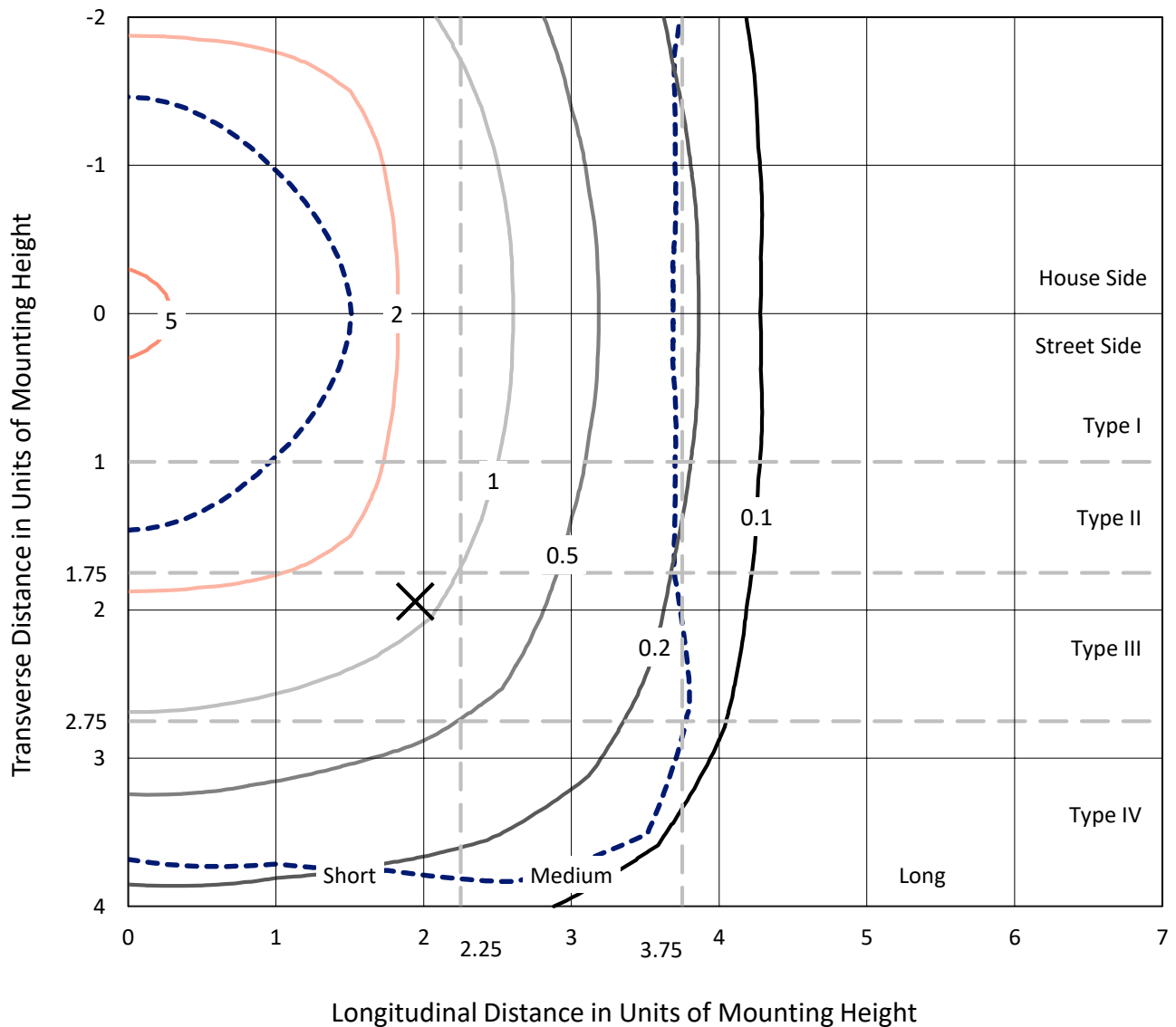
Input Watts (W): 62  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P348707  
 CATALOG NUMBER: ARCH-N-PA1-60-730-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

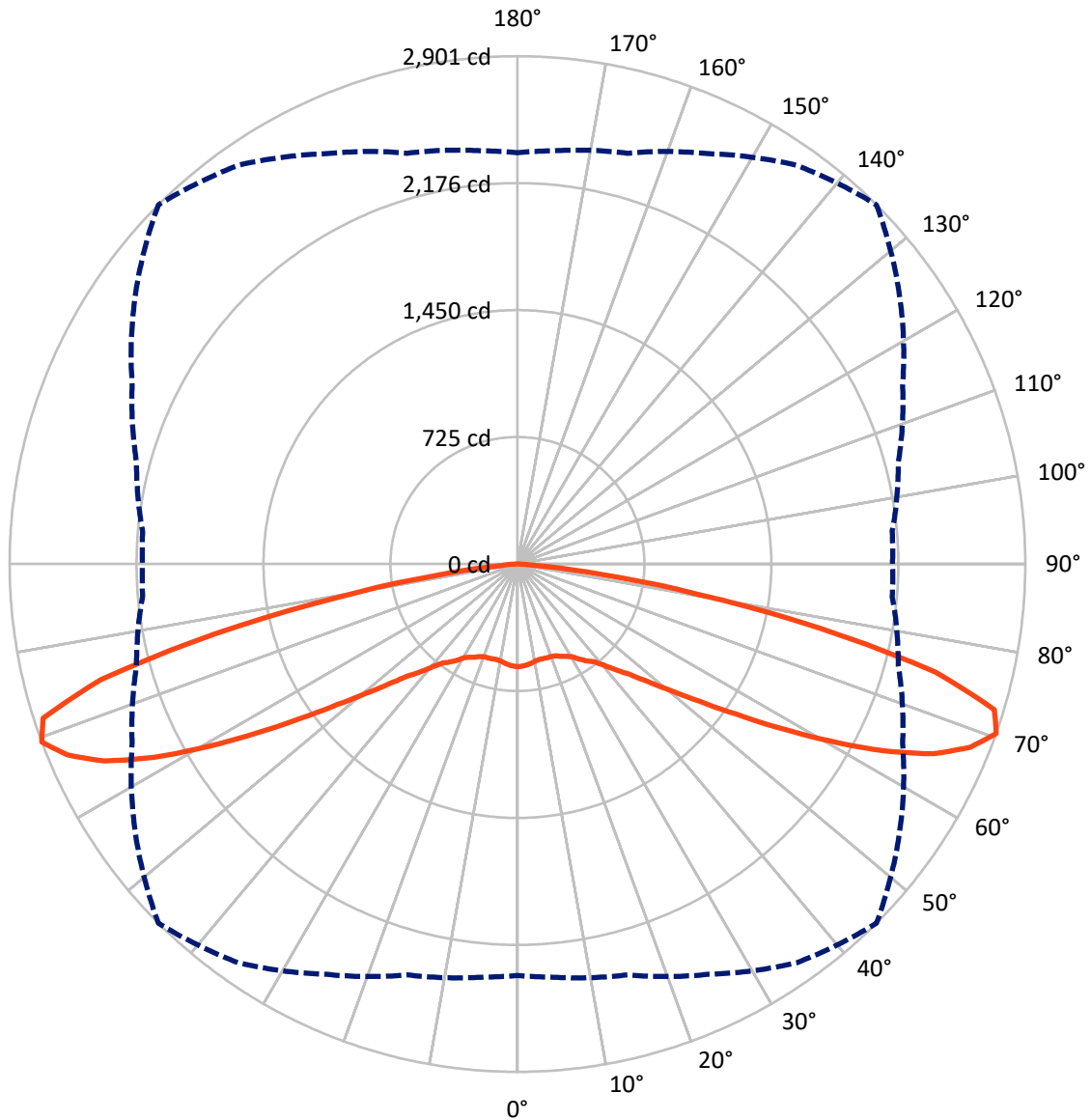
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P348707  
CATALOG NUMBER: ARCH-N-PA1-60-730-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P348707

CATALOG NUMBER: ARCH-N-PA1-60-730-U-5WQ

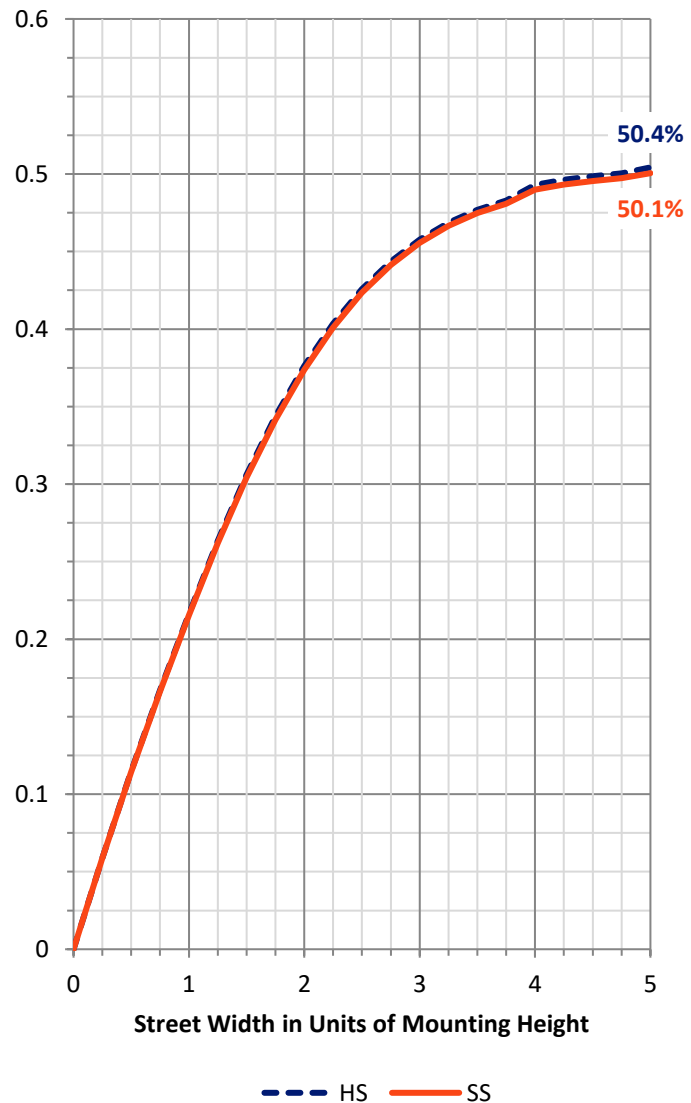
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3562.5	0.0	3562.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3562.5	0.0	3562.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7125.0	0.0	7125.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.7	0.8
10°-20°	159.9	2.2
20°-30°	272.6	3.8
30°-40°	425.9	6.0
40°-50°	721.8	10.1
50°-60°	1316.2	18.5
60°-70°	2266.0	31.8
70°-80°	1776.2	24.9
80°-90°	131.7	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°	7125.0	100.0
0°-180°	7125.0	100.0



REPORT NUMBER: P348707

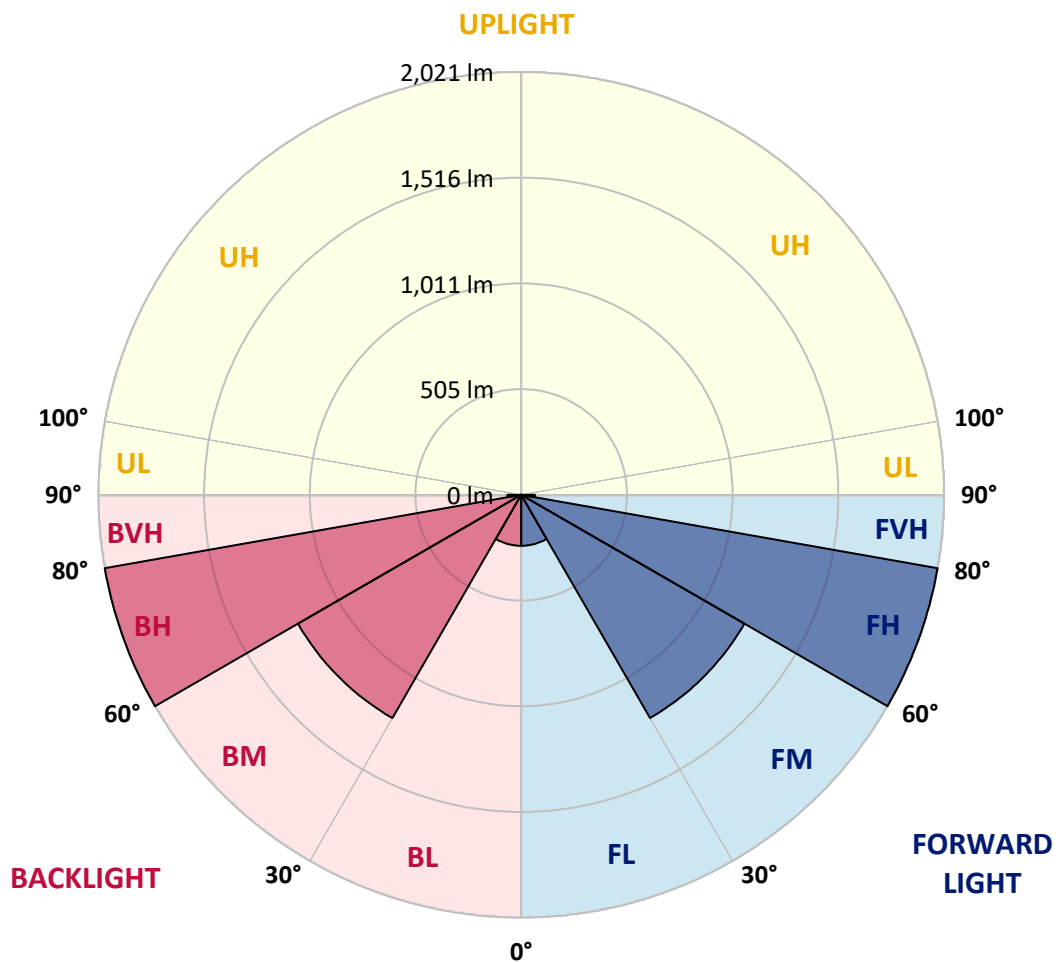
CATALOG NUMBER: ARCH-N-PA1-60-730-U-5WQ

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.6	3.4			
FM	(30°-60°)	1232.0	17.3			
FH	(60°-80°)	2021.1	28.4			G2/5000
FVH	(80°-90°)	65.9	0.9			G1/100
BL	(0°-30°)	243.6	3.4	B1/500		
BM	(30°-60°)	1232.0	17.3	B2/2500		
BH	(60°-80°)	2021.1	28.4	B3/2500		G2/5000
BVH	(80°-90°)	65.9	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-G2**

Type V Short





REPORT NUMBER: P348707

CATALOG NUMBER: ARCH-N-PA1-60-730-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4
2.5°	583.8	584.5	583.8	584.3	583.1	583.6	583.6	583.6	583.3	583.6	583.1
5°	578.6	579.1	578.1	578.6	577.9	578.6	578.8	578.6	578.1	578.4	577.4
7.5°	570.8	571.3	570.6	571.3	570.4	571.5	571.3	570.6	569.9	569.9	568.9
10°	566.6	566.8	564.9	564.2	562.1	562.6	563.3	564.0	564.7	566.1	565.9
12.5°	566.8	566.8	564.0	560.9	557.9	558.6	559.8	562.3	565.2	567.8	568.0
15°	569.2	568.9	564.7	559.8	557.6	559.8	560.5	562.1	566.6	571.1	571.3
17.5°	570.8	570.8	564.2	558.6	558.3	561.6	561.4	562.1	567.1	573.7	573.9
20°	573.9	573.9	565.4	559.3	559.3	562.8	563.1	564.2	569.2	576.5	577.7
22.5°	580.7	581.0	572.0	567.1	567.5	569.7	570.4	572.2	576.7	584.7	586.2
25°	590.4	590.9	581.7	578.8	580.5	584.5	584.0	585.4	590.4	598.2	599.6
27.5°	603.8	602.7	594.2	593.0	594.6	597.5	597.2	597.5	601.5	608.5	610.2
30°	621.3	620.8	614.7	615.4	614.7	613.7	614.0	615.8	618.0	623.6	625.3
32.5°	638.2	638.7	634.9	638.5	643.7	647.2	641.8	636.6	634.2	637.3	638.7
35°	668.9	670.1	664.2	661.8	668.9	679.2	663.9	655.4	660.2	664.2	665.3
37.5°	721.0	721.7	711.8	702.3	697.2	707.1	691.7	692.4	708.9	716.5	716.3
40°	780.4	780.6	774.0	765.7	756.8	759.1	753.0	754.9	765.7	772.6	774.5
42.5°	851.1	850.4	840.0	828.2	825.6	828.0	817.6	816.2	828.7	840.9	841.2
45°	942.7	941.1	927.7	914.7	902.2	897.0	894.4	901.3	918.5	929.8	930.0
47.5°	1041.5	1037.0	1030.0	1019.6	1008.7	1003.6	999.3	1002.6	1015.1	1019.6	1020.1
50°	1143.1	1144.0	1145.4	1141.4	1137.4	1135.8	1124.7	1118.3	1122.1	1113.9	1112.7
52.5°	1263.5	1265.4	1279.1	1290.6	1297.5	1301.0	1280.0	1258.1	1245.8	1229.8	1225.1
55°	1405.6	1408.7	1428.7	1460.8	1493.8	1511.2	1473.3	1432.3	1394.3	1364.4	1354.7
57.5°	1564.0	1569.4	1597.0	1658.5	1726.2	1767.4	1703.3	1628.8	1555.5	1512.4	1504.9
60°	1749.7	1754.9	1793.1	1881.3	1990.8	2052.8	1955.7	1833.9	1742.7	1701.4	1687.5
62.5°	1970.8	1971.3	2018.2	2121.2	2265.9	2352.2	2220.6	2057.8	1963.7	1914.0	1900.6
65°	2208.6	2209.8	2258.3	2369.6	2519.3	2613.1	2464.6	2294.9	2179.9	2106.6	2096.2
67.5°	2376.7	2381.6	2432.8	2566.6	2706.6	2791.2	2637.6	2445.7	2312.8	2225.4	2216.6
70°	2349.8	2369.1	2429.2	2585.5	2780.2	2900.8	2665.6	2427.8	2252.5	2149.2	2141.9
72.5°	2049.3	2086.3	2166.4	2371.5	2682.8	2849.0	2512.7	2174.4	1976.0	1888.1	1874.9
75°	1395.5	1455.6	1576.5	1872.3	2292.1	2466.7	2115.3	1733.7	1547.0	1425.4	1416.5
77.5°	622.2	635.9	789.1	1129.6	1581.7	1771.4	1536.9	1134.1	851.3	679.0	642.7
80°	173.5	175.6	234.3	420.7	791.7	1040.8	849.9	441.9	248.4	175.1	165.0
82.5°	55.2	59.9	73.1	109.1	266.1	474.9	273.2	117.8	83.9	66.9	60.3
85°	26.9	26.6	37.0	44.3	67.9	105.1	72.4	54.7	47.8	31.8	28.8
87.5°	11.3	11.5	17.2	15.6	19.8	17.0	23.3	24.5	25.7	14.1	12.3
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)