

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: P348704

Luminaire Tested: **ARCH-N-PA1-30-730-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348704
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-PA1-30-730-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4095 lumens
Efficiency: N/A
Efficacy: 132.1 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

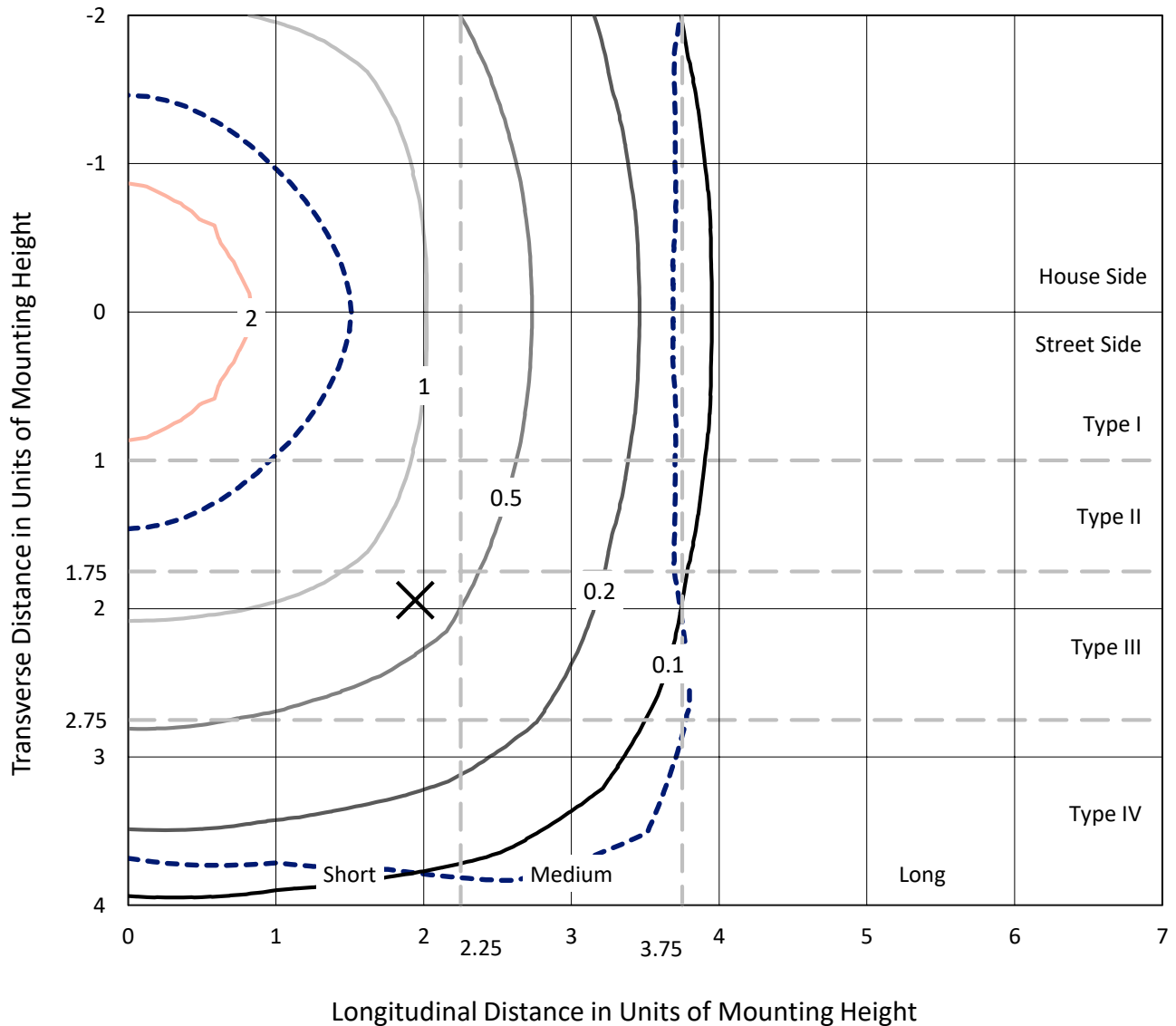
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348704
 CATALOG NUMBER: ARCH-N-PA1-30-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

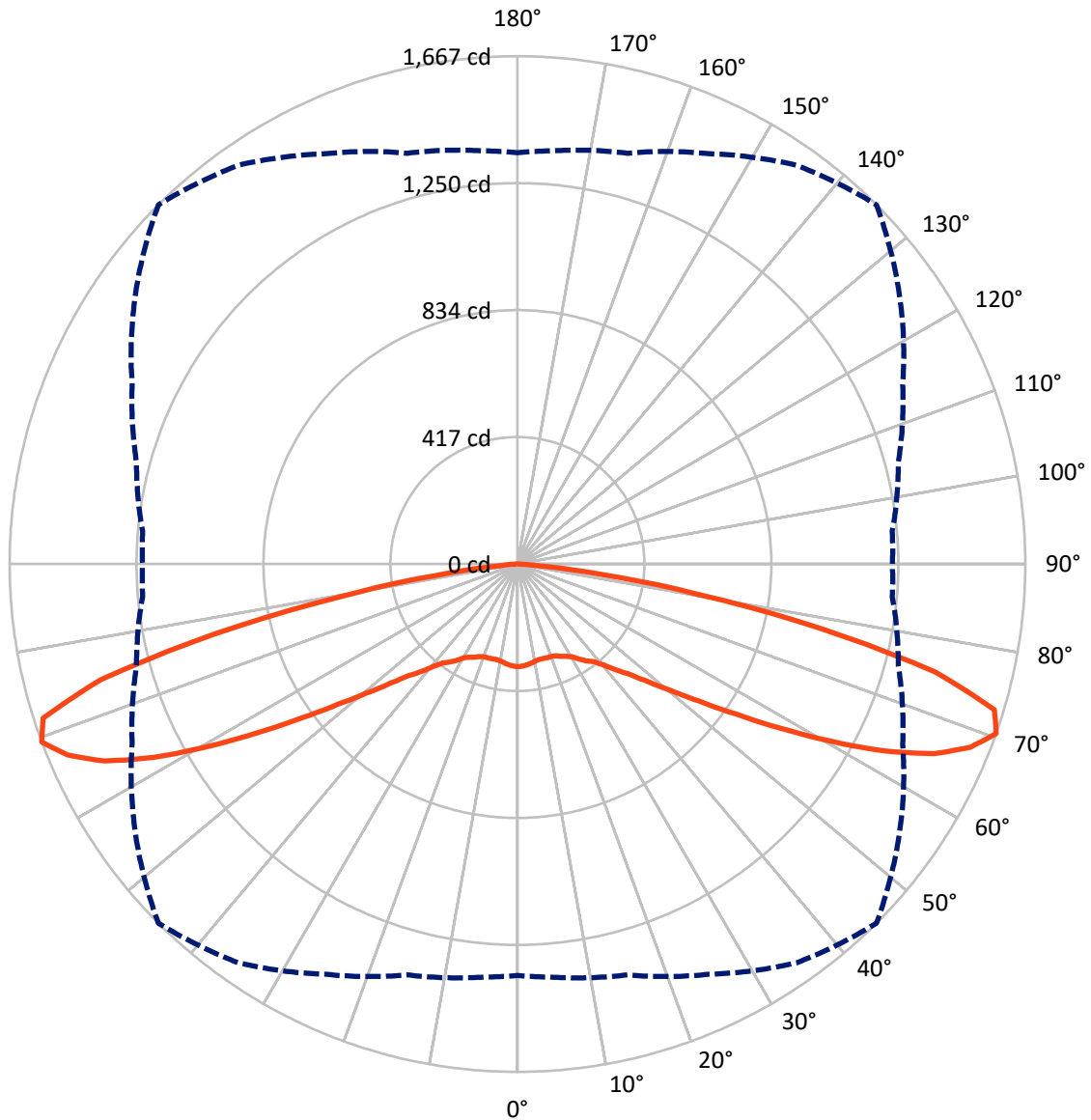
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P348704
CATALOG NUMBER: ARCH-N-PA1-30-730-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P348704

CATALOG NUMBER: ARCH-N-PA1-30-730-U-5WQ

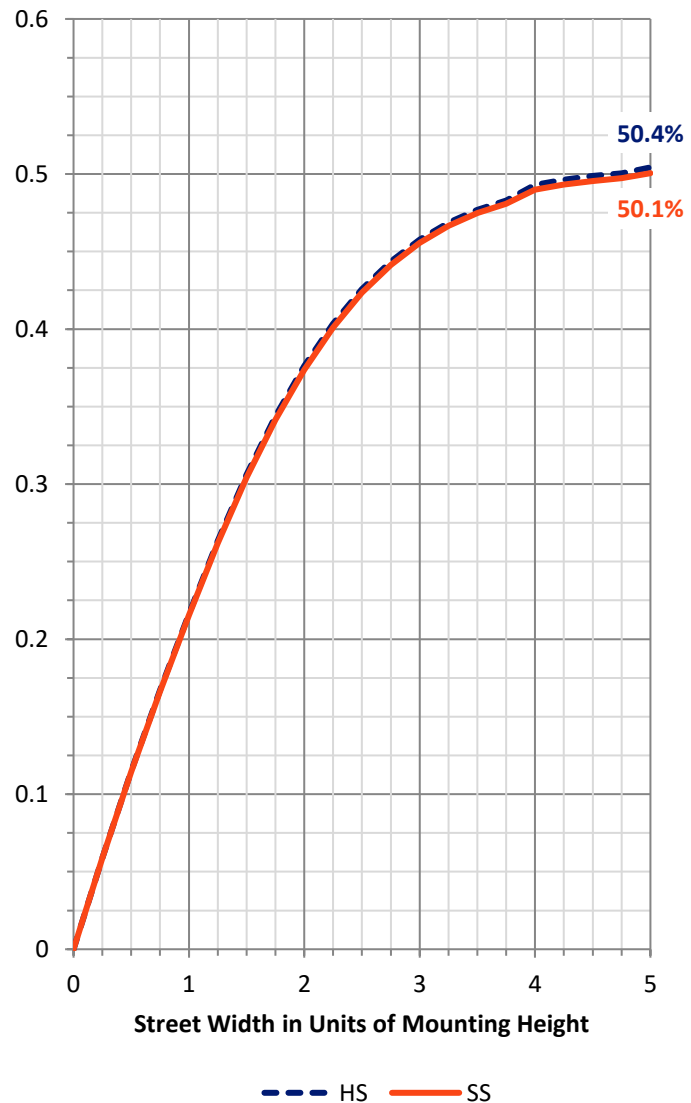
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2047.5	0.0	2047.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2047.5	0.0	2047.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4095.0	0.0	4095.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.5	0.8
10°-20°	91.9	2.2
20°-30°	156.7	3.8
30°-40°	244.8	6.0
40°-50°	414.8	10.1
50°-60°	756.5	18.5
60°-70°	1302.4	31.8
70°-80°	1020.8	24.9
80°-90°	75.7	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°	4095.0	100.0
0°-180°	4095.0	100.0



REPORT NUMBER: P348704

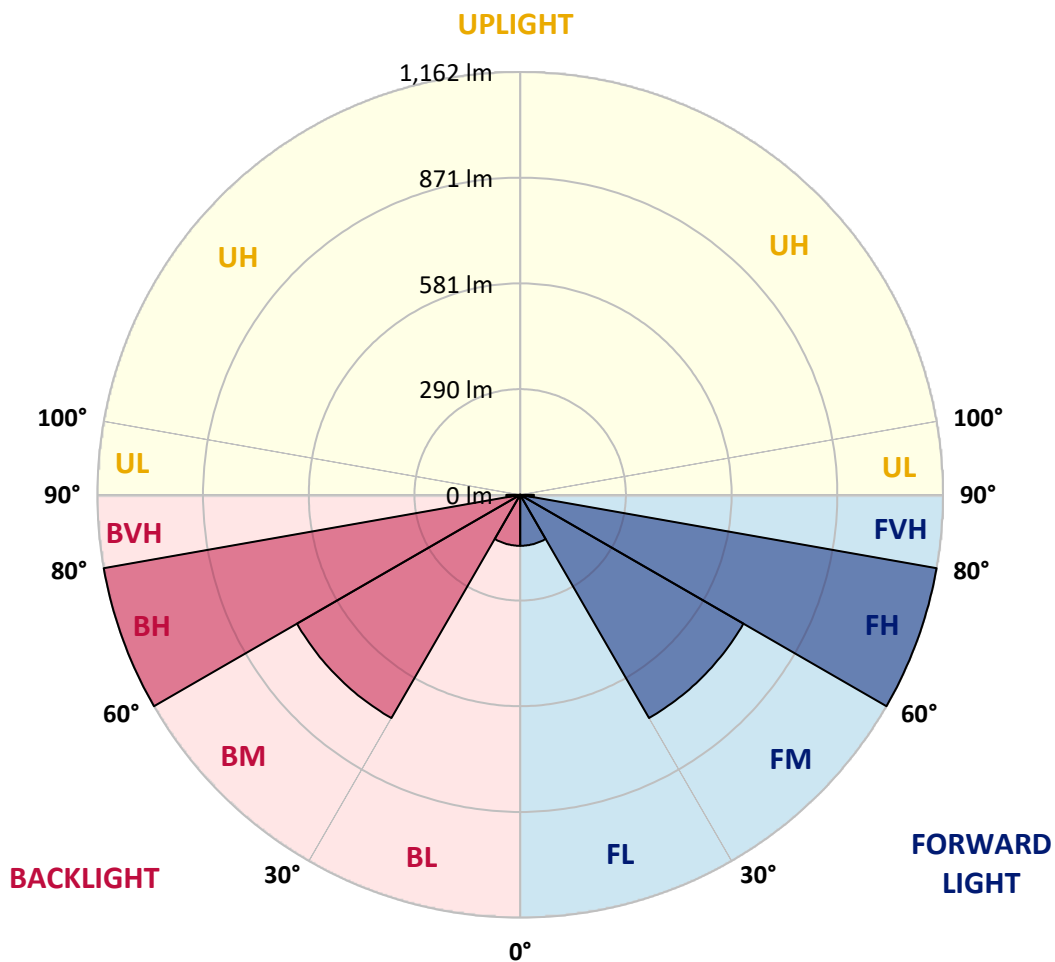
CATALOG NUMBER: ARCH-N-PA1-30-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.0	3.4			
FM	(30°-60°)	708.1	17.3			
FH	(60°-80°)	1161.6	28.4			G1/1800
FVH	(80°-90°)	37.8	0.9			G1/100
BL	(0°-30°)	140.0	3.4	B1/500		
BM	(30°-60°)	708.1	17.3	B1/1000		
BH	(60°-80°)	1161.6	28.4	B3/2500		G1/1800
BVH	(80°-90°)	37.8	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





REPORT NUMBER: P348704

CATALOG NUMBER: ARCH-N-PA1-30-730-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0
2.5°	335.5	335.9	335.5	335.8	335.1	335.4	335.4	335.4	335.3	335.4	335.1
5°	332.5	332.8	332.3	332.5	332.1	332.5	332.7	332.5	332.3	332.4	331.9
7.5°	328.1	328.3	327.9	328.3	327.8	328.5	328.3	327.9	327.5	327.5	327.0
10°	325.6	325.8	324.7	324.3	323.1	323.3	323.7	324.2	324.6	325.4	325.2
12.5°	325.8	325.8	324.2	322.4	320.6	321.0	321.7	323.2	324.8	326.3	326.5
15°	327.1	327.0	324.6	321.7	320.5	321.7	322.1	323.1	325.6	328.2	328.3
17.5°	328.1	328.1	324.3	321.0	320.9	322.8	322.7	323.1	325.9	329.7	329.8
20°	329.8	329.8	325.0	321.4	321.4	323.5	323.6	324.3	327.1	331.3	332.0
22.5°	333.8	333.9	328.8	325.9	326.2	327.4	327.8	328.9	331.5	336.1	336.9
25°	339.3	339.6	334.3	332.7	333.6	335.9	335.7	336.5	339.3	343.8	344.6
27.5°	347.0	346.4	341.5	340.8	341.8	343.4	343.3	343.4	345.7	349.8	350.7
30°	357.1	356.8	353.3	353.7	353.3	352.7	352.9	354.0	355.2	358.4	359.4
32.5°	366.8	367.1	364.9	367.0	369.9	372.0	368.9	365.9	364.5	366.3	367.1
35°	384.4	385.1	381.7	380.4	384.4	390.4	381.6	376.7	379.4	381.7	382.4
37.5°	414.4	414.8	409.1	403.7	400.7	406.4	397.6	398.0	407.5	411.8	411.7
40°	448.5	448.6	444.8	440.1	435.0	436.3	432.8	433.9	440.1	444.0	445.1
42.5°	489.1	488.7	482.8	476.0	474.5	475.9	469.9	469.1	476.3	483.3	483.4
45°	541.8	540.9	533.2	525.7	518.5	515.6	514.1	518.0	527.9	534.4	534.5
47.5°	598.6	596.0	592.0	586.0	579.8	576.8	574.3	576.2	583.4	586.0	586.3
50°	657.0	657.5	658.3	656.0	653.7	652.8	646.4	642.7	644.9	640.2	639.5
52.5°	726.2	727.3	735.1	741.8	745.7	747.7	735.7	723.1	716.0	706.8	704.1
55°	807.9	809.6	821.1	839.6	858.5	868.6	846.7	823.2	801.4	784.2	778.6
57.5°	898.9	902.0	917.9	953.2	992.1	1015.8	979.0	936.1	894.0	869.2	864.9
60°	1005.6	1008.6	1030.6	1081.2	1144.2	1179.8	1124.0	1054.0	1001.6	977.9	969.9
62.5°	1132.7	1133.0	1159.9	1219.1	1302.3	1351.9	1276.3	1182.7	1128.6	1100.1	1092.3
65°	1269.4	1270.1	1298.0	1361.9	1447.9	1501.8	1416.5	1319.0	1252.8	1210.7	1204.8
67.5°	1366.0	1368.8	1398.2	1475.1	1555.6	1604.2	1515.9	1405.6	1329.2	1279.0	1274.0
70°	1350.5	1361.6	1396.2	1486.0	1597.9	1667.2	1532.0	1395.4	1294.6	1235.2	1231.0
72.5°	1177.8	1199.1	1245.1	1363.0	1541.9	1637.4	1444.1	1249.7	1135.7	1085.2	1077.6
75°	802.0	836.6	906.1	1076.1	1317.3	1417.7	1215.7	996.4	889.1	819.2	814.1
77.5°	357.6	365.5	453.5	649.2	909.1	1018.1	883.3	651.8	489.3	390.3	369.4
80°	99.7	100.9	134.6	241.8	455.0	598.2	488.5	254.0	142.8	100.6	94.8
82.5°	31.7	34.4	42.0	62.7	152.9	272.9	157.0	67.7	48.2	38.5	34.7
85°	15.4	15.3	21.3	25.5	39.0	60.4	41.6	31.4	27.5	18.3	16.5
87.5°	6.5	6.6	9.9	8.9	11.4	9.8	13.4	14.1	14.8	8.1	7.0
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)