

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: P348701

Luminaire Tested: **ARCH-N-PA1-10-730-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348701
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-PA1-10-730-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2096 lumens
Efficiency: N/A
Efficacy: 149.7 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

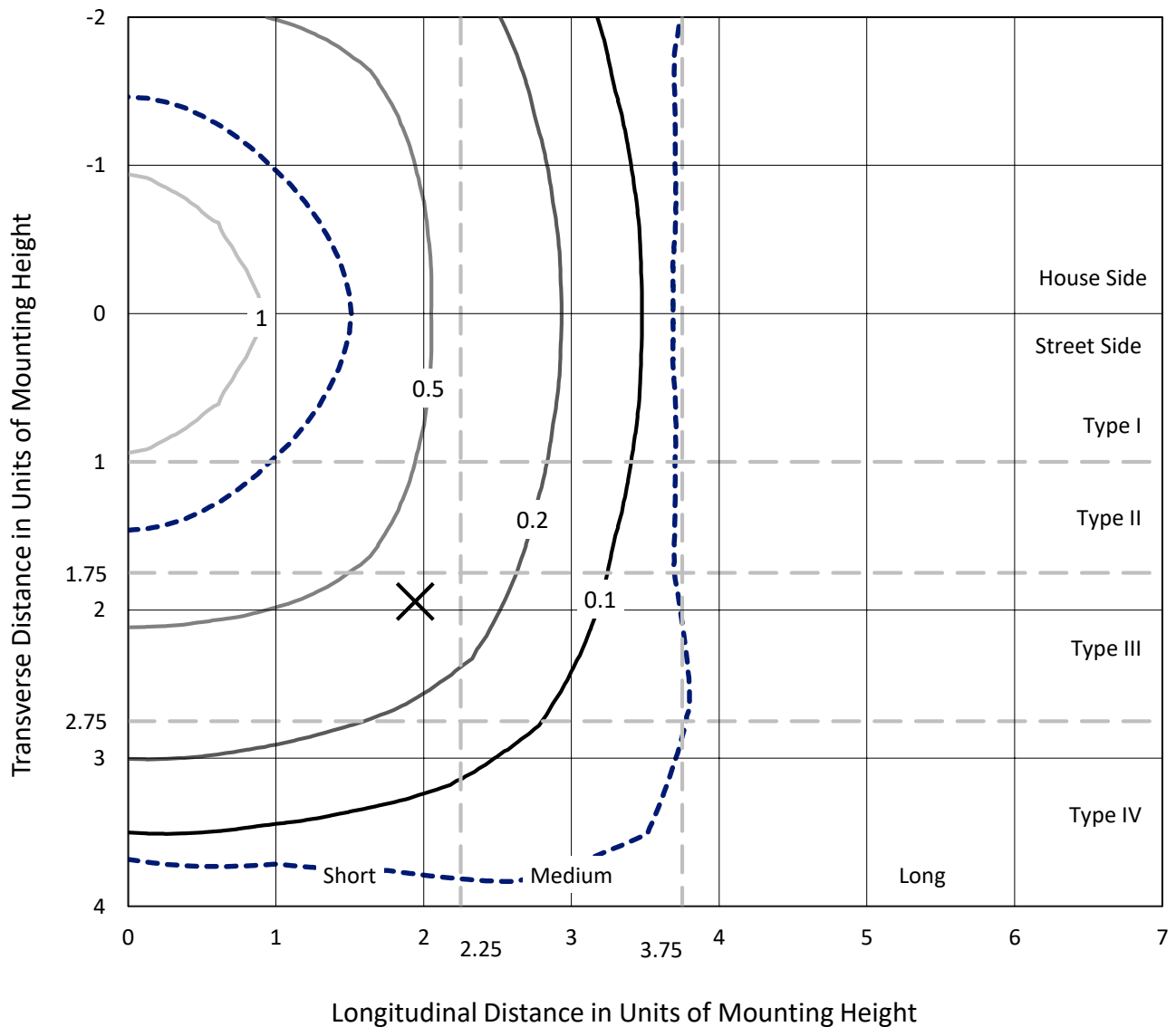
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348701
 CATALOG NUMBER: ARCH-N-PA1-10-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

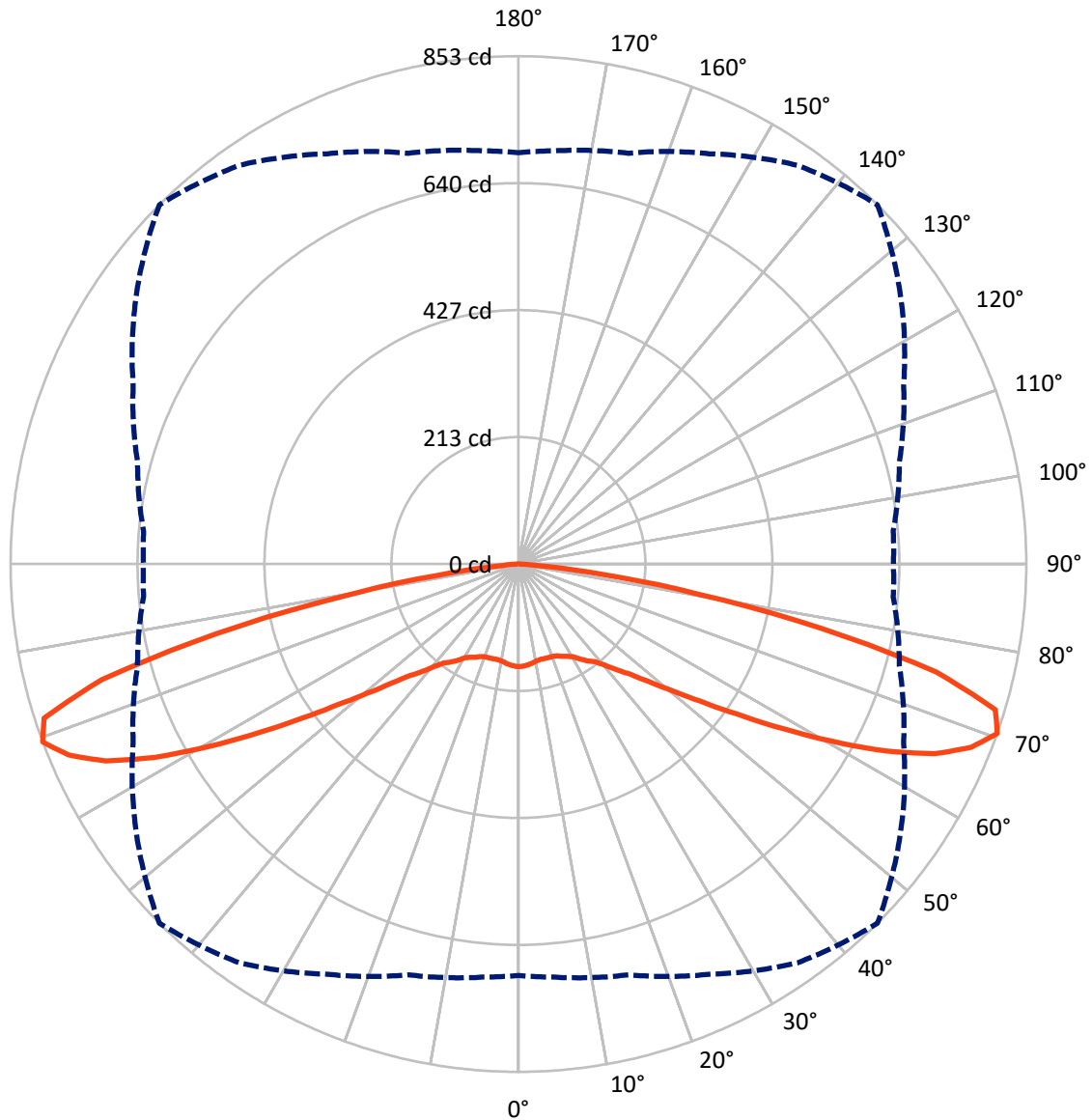
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P348701
CATALOG NUMBER: ARCH-N-PA1-10-730-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P348701

CATALOG NUMBER: ARCH-N-PA1-10-730-U-5WQ

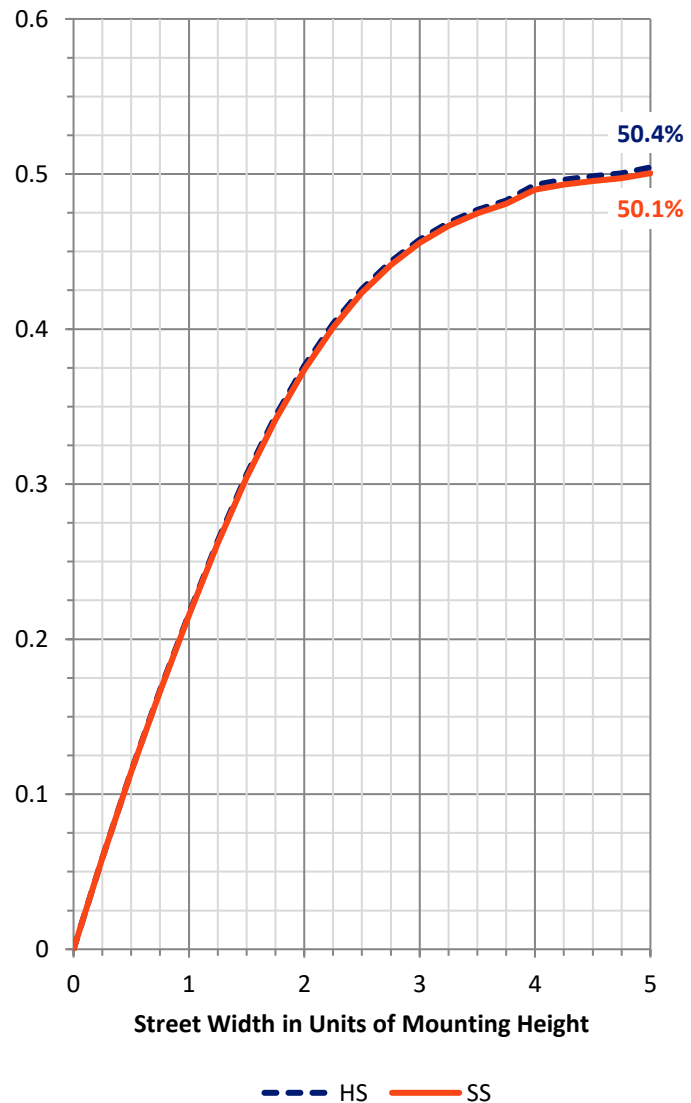
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1048.0	0.0	1048.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1048.0	0.0	1048.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	2096.0	0.0	2096.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	0.8
10°-20°	47.0	2.2
20°-30°	80.2	3.8
30°-40°	125.3	6.0
40°-50°	212.3	10.1
50°-60°	387.2	18.5
60°-70°	666.6	31.8
70°-80°	522.5	24.9
80°-90°	38.8	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°	2096.0	100.0
0°-180°	2096.0	100.0



REPORT NUMBER: P348701

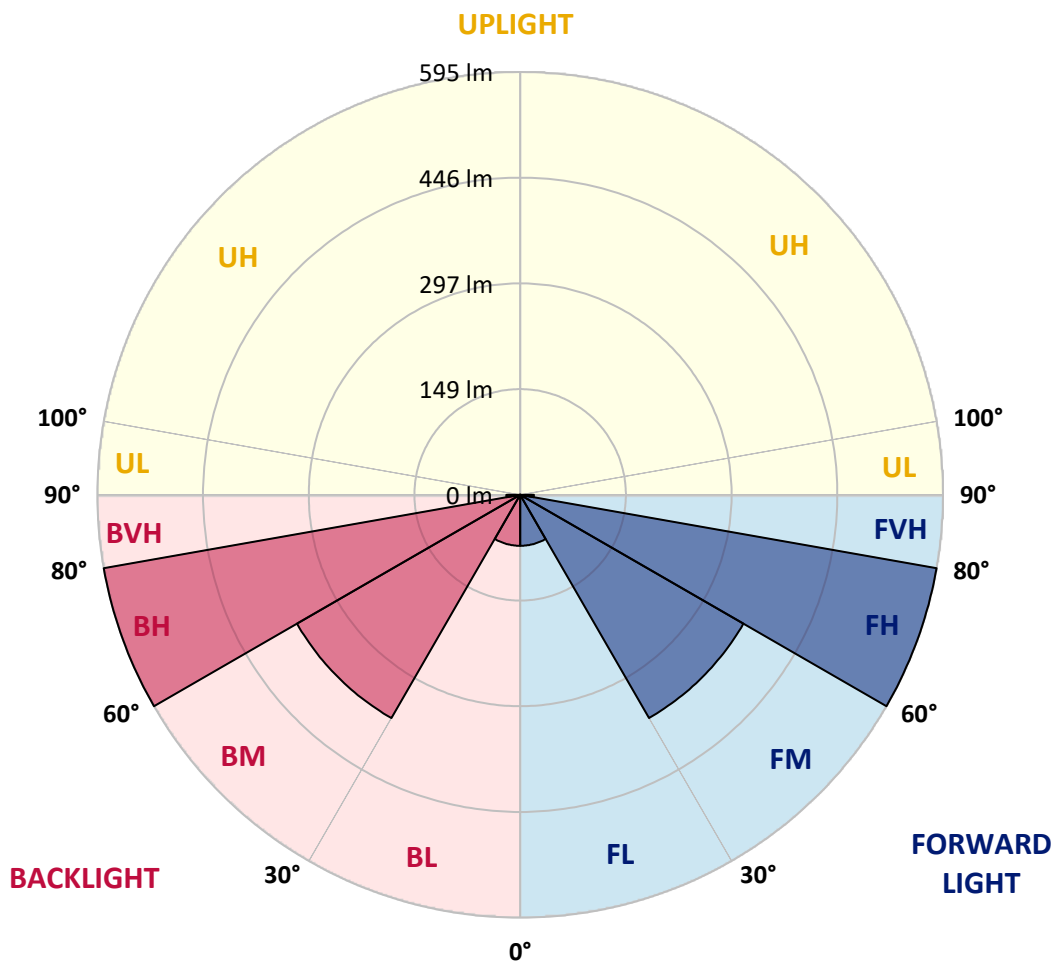
CATALOG NUMBER: ARCH-N-PA1-10-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	71.7	3.4			
FM (30°-60°)	362.4	17.3			
FH (60°-80°)	594.6	28.4			G0/660
FVH (80°-90°)	19.4	0.9			G1/100
BL (0°-30°)	71.7	3.4	B0/110		
BM (30°-60°)	362.4	17.3	B1/1000		
BH (60°-80°)	594.6	28.4	B2/1000		G0/660
BVH (80°-90°)	19.4	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





REPORT NUMBER: P348701

CATALOG NUMBER: ARCH-N-PA1-10-730-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	172.5	172.5	172.5	172.5	172.5	172.5	172.5	172.5	172.5	172.5	172.5
2.5°	171.7	171.9	171.7	171.9	171.5	171.7	171.7	171.7	171.6	171.7	171.5
5°	170.2	170.4	170.1	170.2	170.0	170.2	170.3	170.2	170.1	170.1	169.9
7.5°	167.9	168.1	167.9	168.1	167.8	168.1	168.1	167.9	167.6	167.6	167.4
10°	166.7	166.7	166.2	166.0	165.4	165.5	165.7	165.9	166.1	166.5	166.5
12.5°	166.7	166.7	165.9	165.0	164.1	164.3	164.7	165.4	166.3	167.0	167.1
15°	167.4	167.4	166.1	164.7	164.0	164.7	164.9	165.4	166.7	168.0	168.1
17.5°	167.9	167.9	166.0	164.3	164.3	165.2	165.2	165.4	166.8	168.8	168.8
20°	168.8	168.8	166.3	164.5	164.5	165.6	165.6	166.0	167.4	169.6	169.9
22.5°	170.8	170.9	168.3	166.8	167.0	167.6	167.8	168.3	169.7	172.0	172.4
25°	173.7	173.8	171.1	170.3	170.8	171.9	171.8	172.2	173.7	176.0	176.4
27.5°	177.6	177.3	174.8	174.4	174.9	175.8	175.7	175.8	176.9	179.0	179.5
30°	182.8	182.6	180.8	181.0	180.8	180.5	180.6	181.2	181.8	183.5	183.9
32.5°	187.8	187.9	186.8	187.8	189.3	190.4	188.8	187.3	186.6	187.5	187.9
35°	196.8	197.1	195.4	194.7	196.8	199.8	195.3	192.8	194.2	195.4	195.7
37.5°	212.1	212.3	209.4	206.6	205.1	208.0	203.5	203.7	208.6	210.8	210.7
40°	229.6	229.6	227.7	225.3	222.6	223.3	221.5	222.1	225.3	227.3	227.8
42.5°	250.4	250.2	247.1	243.6	242.9	243.6	240.5	240.1	243.8	247.4	247.5
45°	277.3	276.8	272.9	269.1	265.4	263.9	263.1	265.1	270.2	273.5	273.6
47.5°	306.4	305.1	303.0	299.9	296.7	295.2	294.0	294.9	298.6	299.9	300.1
50°	336.3	336.5	337.0	335.8	334.6	334.1	330.9	329.0	330.1	327.7	327.3
52.5°	371.7	372.3	376.3	379.7	381.7	382.7	376.5	370.1	366.5	361.8	360.4
55°	413.5	414.4	420.3	429.7	439.4	444.6	433.4	421.3	410.2	401.4	398.5
57.5°	460.1	461.7	469.8	487.9	507.8	519.9	501.1	479.2	457.6	444.9	442.7
60°	514.7	516.3	527.5	553.4	585.7	603.9	575.3	539.5	512.6	500.5	496.4
62.5°	579.8	579.9	593.7	624.0	666.6	691.9	653.3	605.3	577.7	563.1	559.1
65°	649.7	650.1	664.4	697.1	741.1	768.7	725.0	675.1	641.3	619.7	616.6
67.5°	699.2	700.6	715.7	755.0	796.2	821.1	775.9	719.5	680.4	654.6	652.1
70°	691.3	696.9	714.6	760.6	817.9	853.4	784.2	714.2	662.6	632.2	630.1
72.5°	602.9	613.7	637.3	697.6	789.2	838.1	739.2	639.7	581.3	555.4	551.5
75°	410.5	428.2	463.8	550.8	674.3	725.6	622.3	510.0	455.1	419.3	416.7
77.5°	183.0	187.1	232.1	332.3	465.3	521.1	452.1	333.6	250.4	199.7	189.1
80°	51.0	51.7	68.9	123.8	232.9	306.2	250.0	130.0	73.1	51.5	48.5
82.5°	16.2	17.6	21.5	32.1	78.3	139.7	80.4	34.7	24.7	19.7	17.7
85°	7.9	7.8	10.9	13.0	20.0	30.9	21.3	16.1	14.1	9.4	8.5
87.5°	3.3	3.4	5.1	4.6	5.8	5.0	6.9	7.2	7.6	4.2	3.6
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)