

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: P348696

Luminaire Tested: **ARCH-N-PA1-20-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348696
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-PA1-20-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2925 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

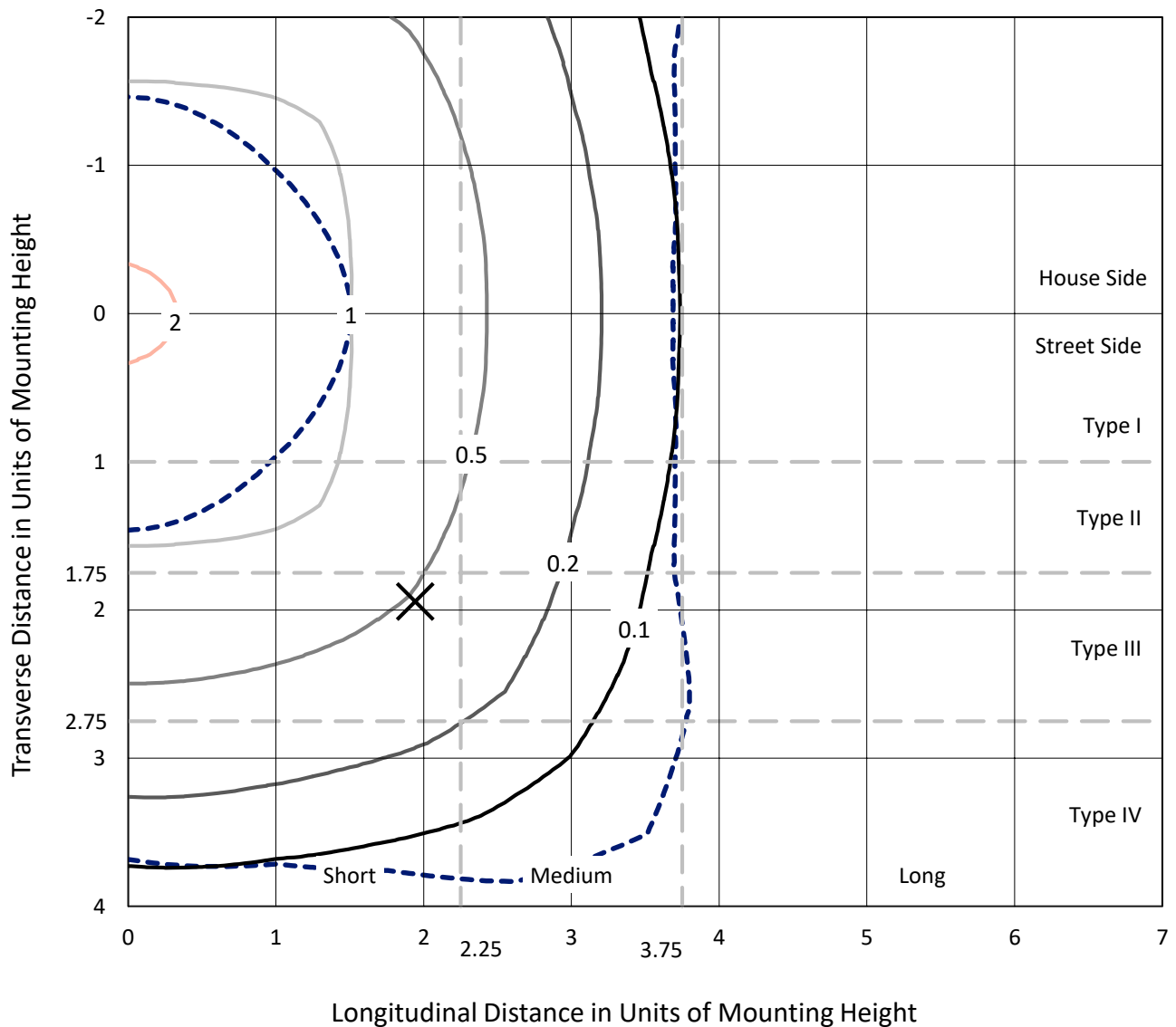
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348696
 CATALOG NUMBER: ARCH-N-PA1-20-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

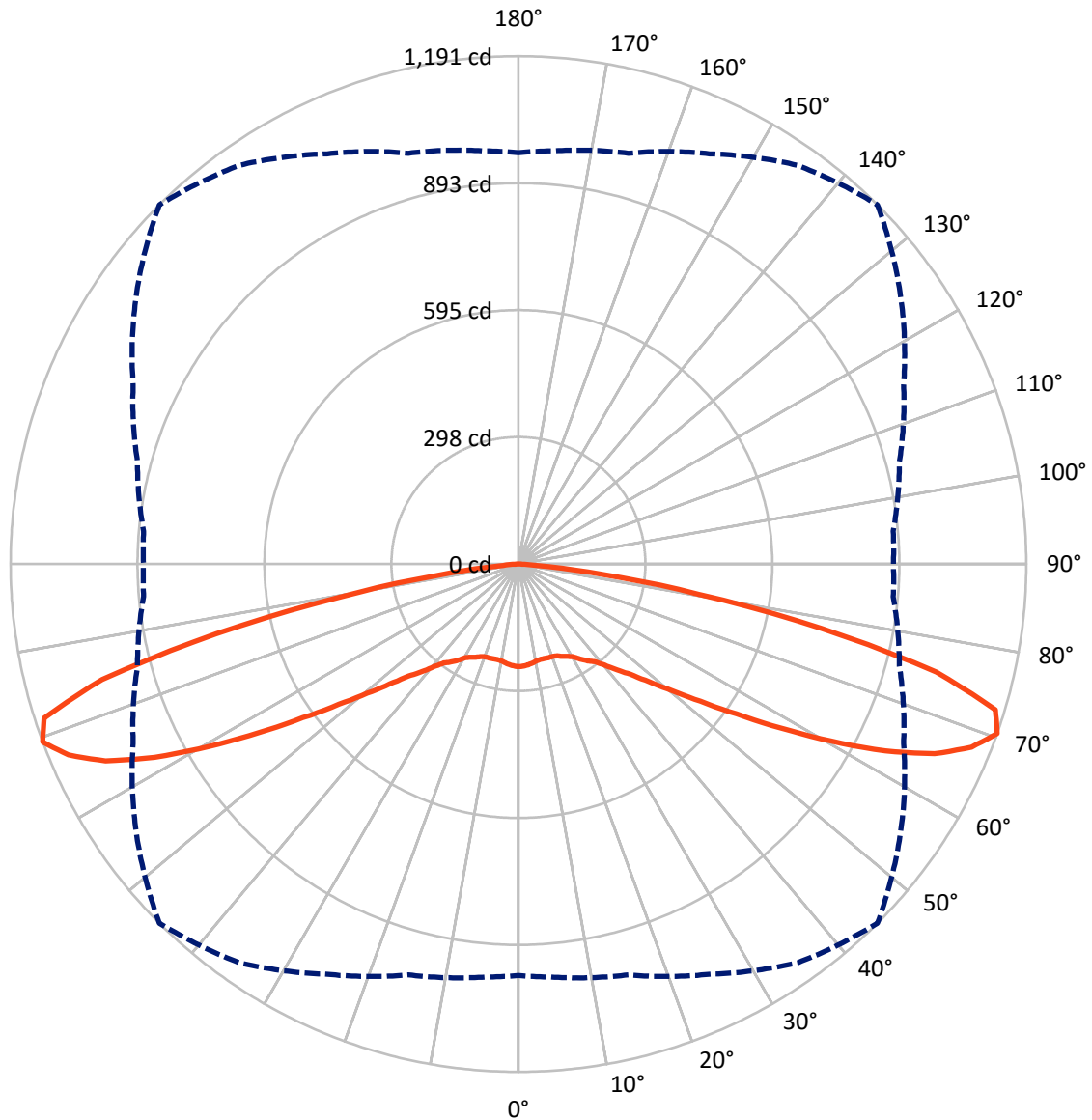


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P348696

CATALOG NUMBER: ARCH-N-PA1-20-727-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P348696

CATALOG NUMBER: ARCH-N-PA1-20-727-U-5WQ

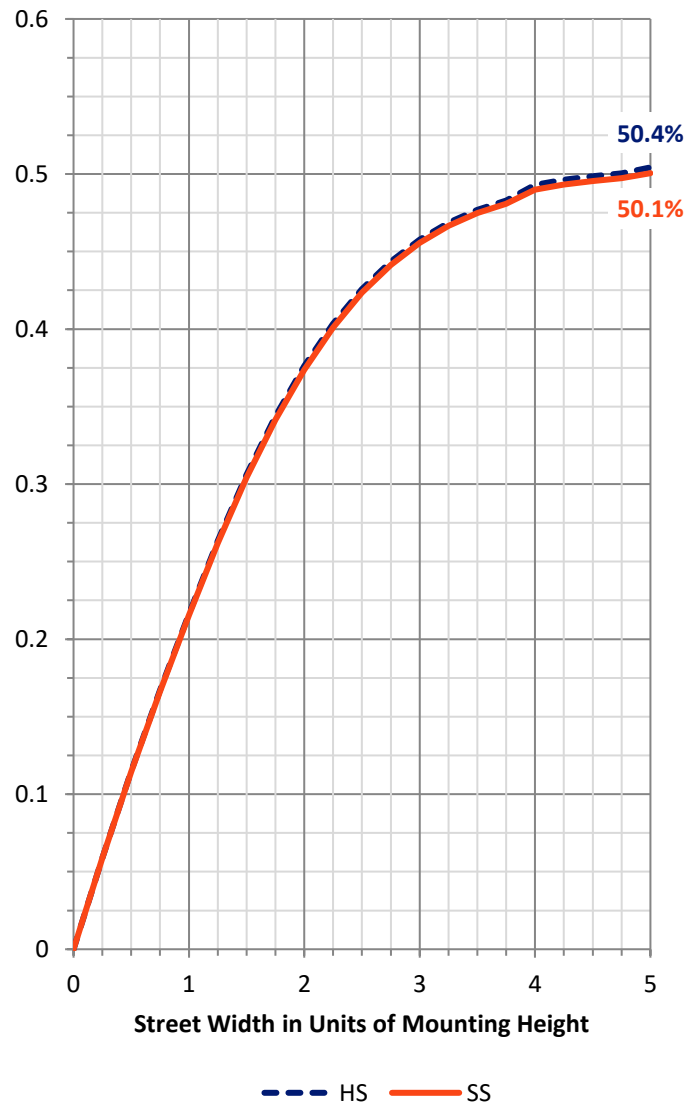
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1462.5	0.0	1462.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1462.5	0.0	1462.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2925.0	0.0	2925.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.5	0.8
10°-20°	65.6	2.2
20°-30°	111.9	3.8
30°-40°	174.8	6.0
40°-50°	296.3	10.1
50°-60°	540.4	18.5
60°-70°	930.3	31.8
70°-80°	729.2	24.9
80°-90°	54.1	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°	2925.0	100.0
0°-180°	2925.0	100.0



REPORT NUMBER: P348696

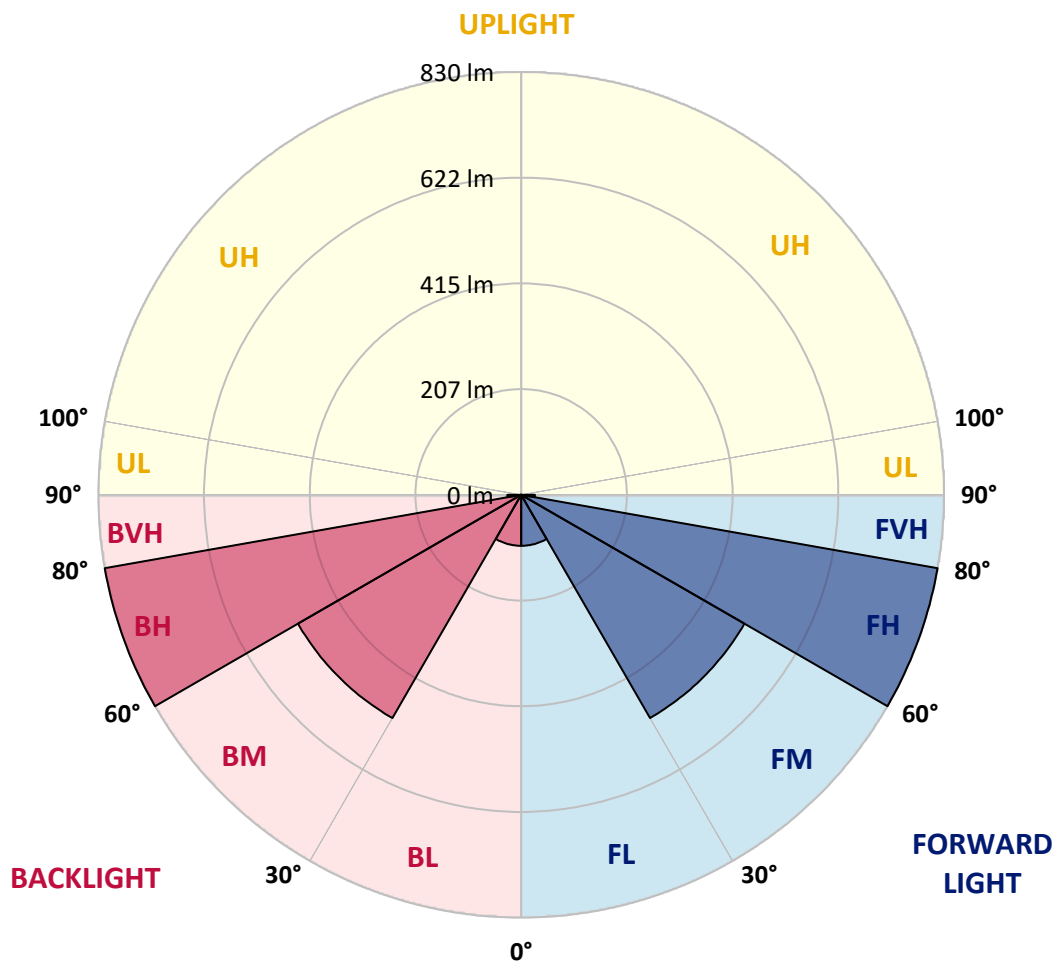
CATALOG NUMBER: ARCH-N-PA1-20-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	100.0	3.4			
FM	(30°-60°)	505.8	17.3			
FH	(60°-80°)	829.7	28.4			G1/1800
FVH	(80°-90°)	27.0	0.9			G1/100
BL	(0°-30°)	100.0	3.4	B0/110		
BM	(30°-60°)	505.8	17.3	B1/1000		
BH	(60°-80°)	829.7	28.4	B2/1000		G1/1800
BVH	(80°-90°)	27.0	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





REPORT NUMBER: P348696

CATALOG NUMBER: ARCH-N-PA1-20-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	240.7	240.7	240.7	240.7	240.7	240.7	240.7	240.7	240.7	240.7	240.7
2.5°	239.7	240.0	239.7	239.9	239.4	239.6	239.6	239.6	239.5	239.6	239.4
5°	237.5	237.7	237.3	237.5	237.2	237.5	237.6	237.5	237.3	237.4	237.1
7.5°	234.3	234.5	234.2	234.5	234.1	234.6	234.5	234.2	234.0	234.0	233.6
10°	232.6	232.7	231.9	231.6	230.8	231.0	231.2	231.5	231.8	232.4	232.3
12.5°	232.7	232.7	231.5	230.3	229.0	229.3	229.8	230.9	232.0	233.1	233.2
15°	233.7	233.6	231.8	229.8	228.9	229.8	230.1	230.8	232.6	234.4	234.5
17.5°	234.3	234.3	231.6	229.3	229.2	230.6	230.5	230.8	232.8	235.5	235.6
20°	235.6	235.6	232.1	229.6	229.6	231.1	231.1	231.6	233.7	236.7	237.1
22.5°	238.4	238.5	234.8	232.8	233.0	233.9	234.1	234.9	236.8	240.1	240.6
25°	242.4	242.6	238.8	237.6	238.3	240.0	239.8	240.3	242.4	245.6	246.1
27.5°	247.9	247.4	243.9	243.4	244.1	245.3	245.2	245.3	246.9	249.8	250.5
30°	255.0	254.9	252.3	252.6	252.3	252.0	252.0	252.8	253.7	256.0	256.7
32.5°	262.0	262.2	260.7	262.1	264.2	265.7	263.5	261.3	260.4	261.6	262.2
35°	274.6	275.1	272.7	271.7	274.6	278.8	272.6	269.1	271.0	272.7	273.1
37.5°	296.0	296.3	292.2	288.3	286.2	290.3	284.0	284.3	291.0	294.1	294.0
40°	320.4	320.5	317.7	314.4	310.7	311.6	309.1	309.9	314.4	317.2	317.9
42.5°	349.4	349.1	344.8	340.0	338.9	339.9	335.6	335.1	340.2	345.2	345.3
45°	387.0	386.3	380.8	375.5	370.4	368.3	367.2	370.0	377.1	381.7	381.8
47.5°	427.6	425.7	422.8	418.6	414.1	412.0	410.2	411.6	416.7	418.6	418.8
50°	469.3	469.7	470.2	468.6	466.9	466.3	461.7	459.1	460.7	457.3	456.8
52.5°	518.7	519.5	525.1	529.8	532.6	534.1	525.5	516.5	511.5	504.9	502.9
55°	577.1	578.3	586.5	599.7	613.2	620.4	604.8	588.0	572.4	560.1	556.2
57.5°	642.1	644.3	655.6	680.9	708.6	725.6	699.3	668.7	638.6	620.9	617.8
60°	718.3	720.4	736.1	772.3	817.3	842.7	802.9	752.9	715.4	698.5	692.8
62.5°	809.1	809.3	828.5	870.8	930.2	965.6	911.6	844.8	806.2	785.8	780.2
65°	906.7	907.2	927.1	972.8	1034.2	1072.7	1011.8	942.1	894.9	864.8	860.5
67.5°	975.7	977.7	998.7	1053.7	1111.1	1145.9	1082.8	1004.0	949.5	913.6	910.0
70°	964.7	972.6	997.3	1061.4	1141.3	1190.9	1094.3	996.7	924.7	882.3	879.3
72.5°	841.3	856.5	889.4	973.6	1101.4	1169.6	1031.5	892.7	811.2	775.1	769.7
75°	572.9	597.6	647.2	768.6	940.9	1012.6	868.4	711.7	635.1	585.2	581.5
77.5°	255.4	261.0	323.9	463.7	649.3	727.2	630.9	465.6	349.5	278.8	263.9
80°	71.2	72.1	96.2	172.7	325.0	427.3	348.9	181.4	102.0	71.9	67.7
82.5°	22.6	24.6	30.0	44.8	109.2	195.0	112.1	48.4	34.4	27.5	24.8
85°	11.0	10.9	15.2	18.2	27.9	43.2	29.7	22.4	19.6	13.1	11.8
87.5°	4.6	4.7	7.1	6.4	8.1	7.0	9.6	10.1	10.5	5.8	5.0
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)