

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: P348736

Luminaire Tested: **ARCH-N-PA1-10-830-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348736
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-PA1-10-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1829 lumens
Efficiency: N/A
Efficacy: 130.6 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

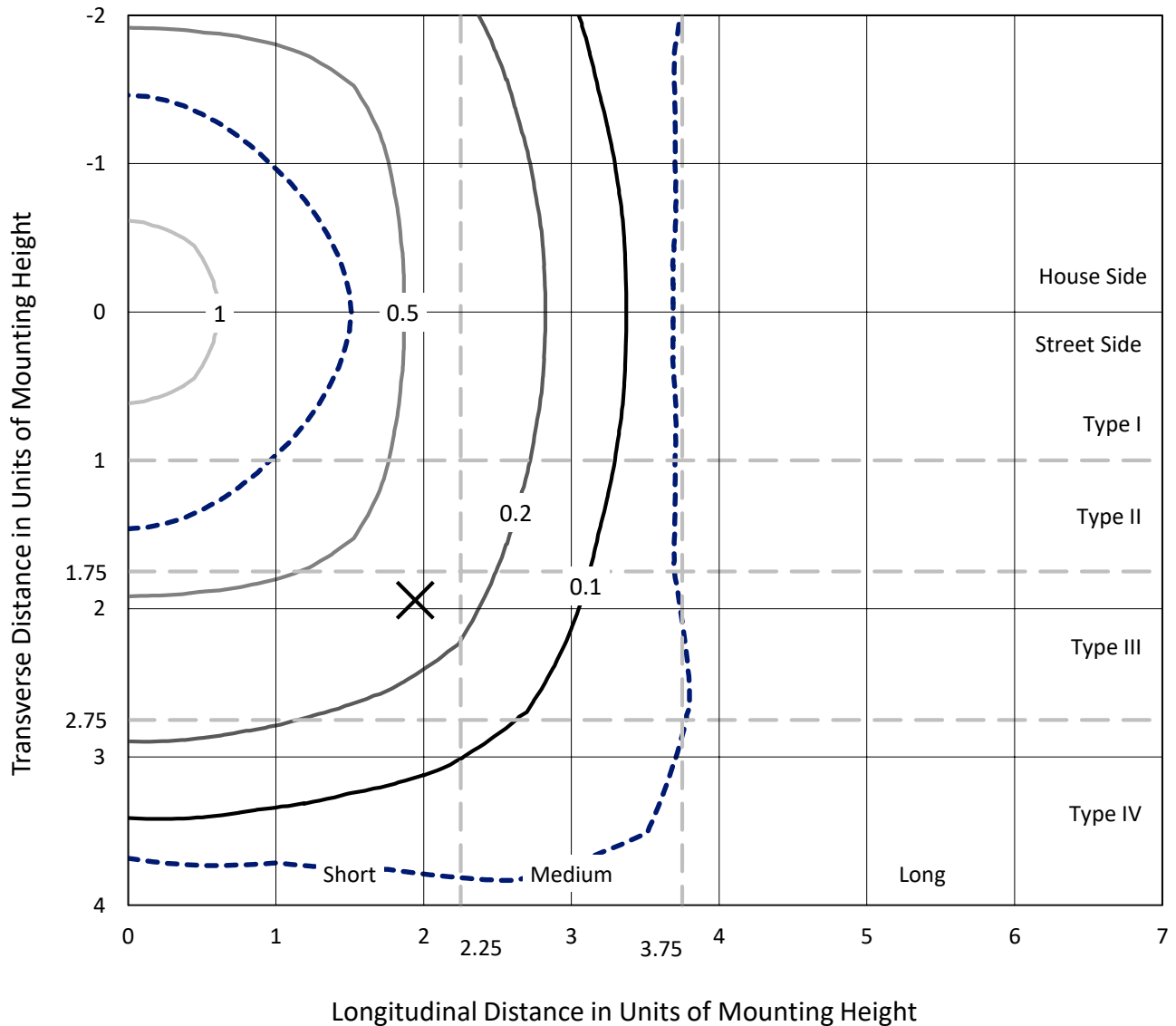
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

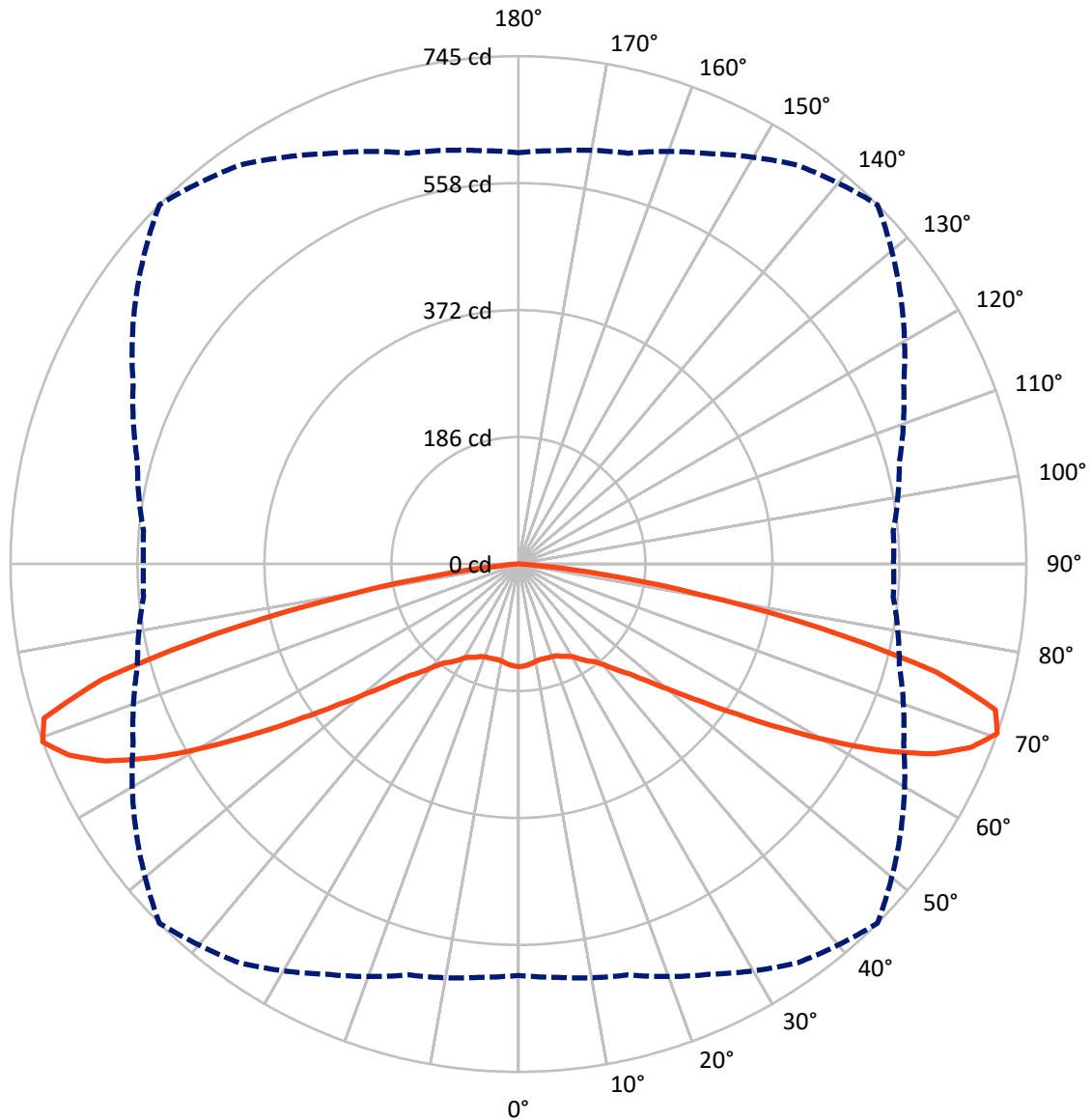
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.5 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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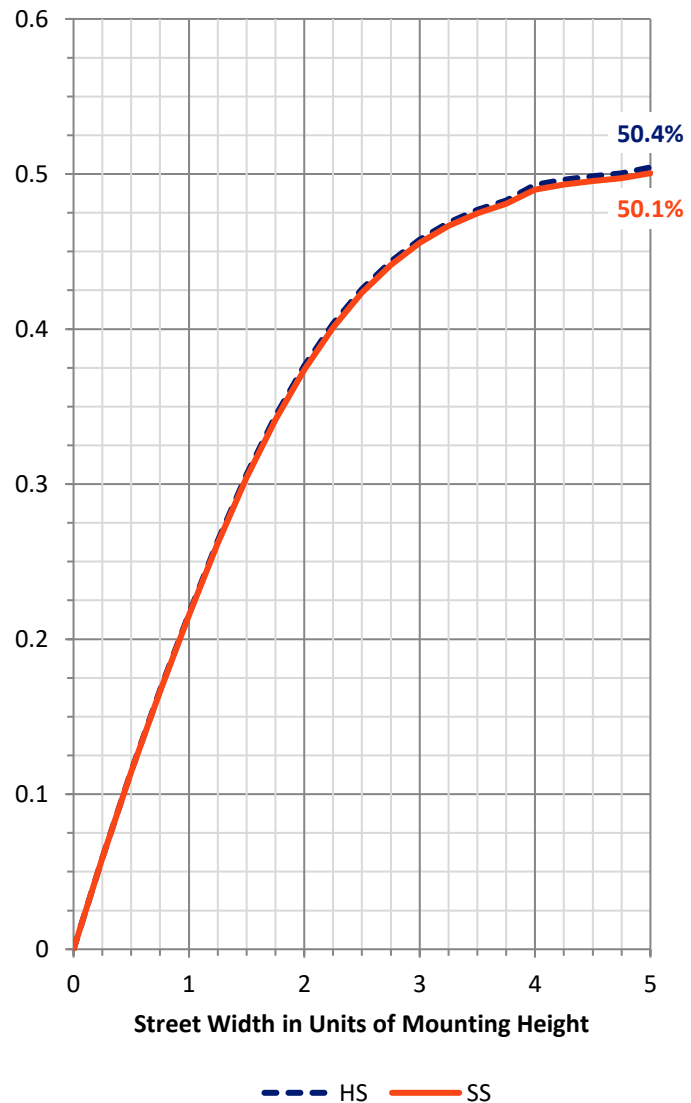
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	914.5	0.0	914.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	914.5	0.0	914.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	1829.0	0.0	1829.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.0	0.8
10°-20°	41.0	2.2
20°-30°	70.0	3.8
30°-40°	109.3	6.0
40°-50°	185.3	10.1
50°-60°	337.9	18.5
60°-70°	581.7	31.8
70°-80°	455.9	24.9
80°-90°	33.8	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°	1829.0	100.0
0°-180°	1829.0	100.0



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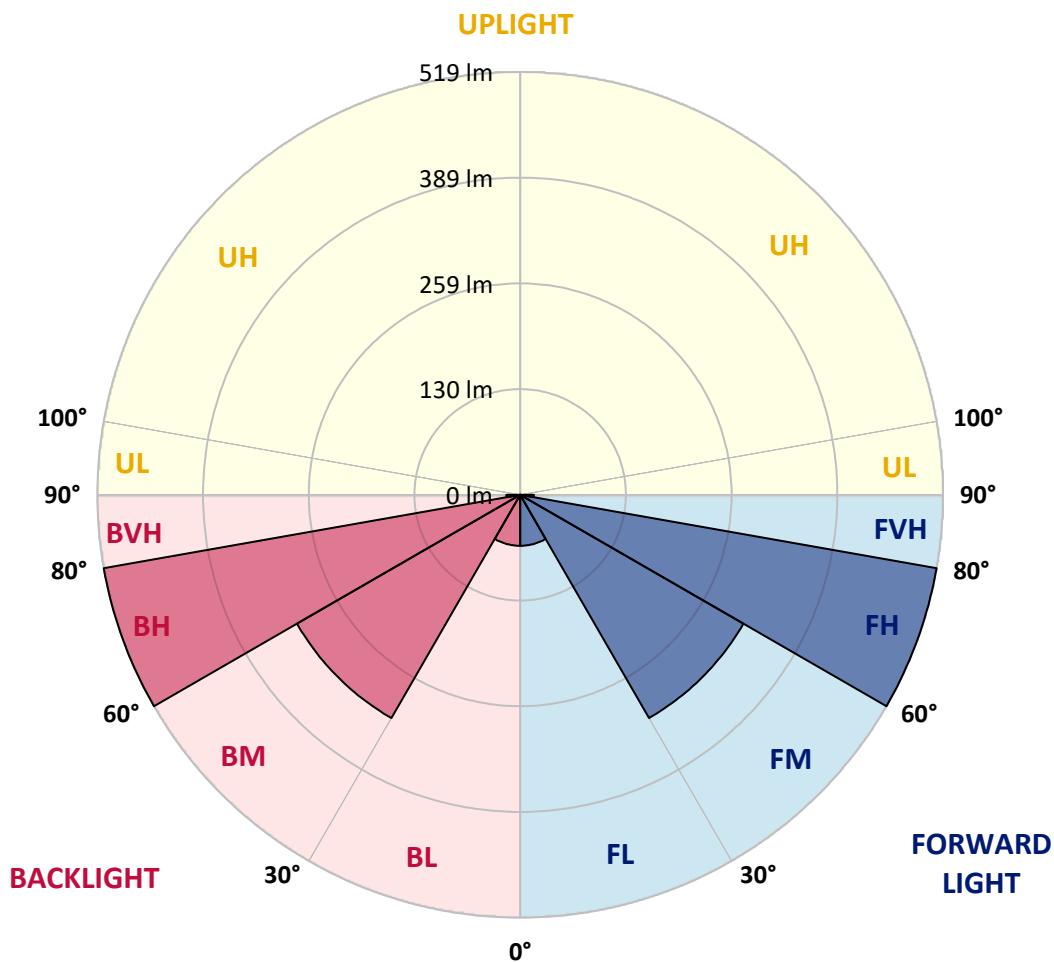
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	62.5	3.4			
FM	(30°-60°)	316.3	17.3			
FH	(60°-80°)	518.8	28.4			G0/660
FVH	(80°-90°)	16.9	0.9			G1/100
BL	(0°-30°)	62.5	3.4	B0/110		
BM	(30°-60°)	316.3	17.3	B1/1000		
BH	(60°-80°)	518.8	28.4	B2/1000		G0/660
BVH	(80°-90°)	16.9	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	150.5	150.5	150.5	150.5	150.5	150.5	150.5	150.5	150.5	150.5	150.5
2.5°	149.9	150.0	149.9	150.0	149.7	149.8	149.8	149.8	149.7	149.8	149.7
5°	148.5	148.7	148.4	148.5	148.3	148.5	148.6	148.5	148.4	148.5	148.2
7.5°	146.5	146.7	146.5	146.7	146.4	146.7	146.7	146.5	146.3	146.3	146.0
10°	145.4	145.5	145.0	144.8	144.3	144.4	144.6	144.8	145.0	145.3	145.3
12.5°	145.5	145.5	144.8	144.0	143.2	143.4	143.7	144.4	145.1	145.7	145.8
15°	146.1	146.0	145.0	143.7	143.1	143.7	143.9	144.3	145.4	146.6	146.7
17.5°	146.5	146.5	144.8	143.4	143.3	144.2	144.1	144.3	145.6	147.3	147.3
20°	147.3	147.3	145.1	143.6	143.6	144.5	144.5	144.8	146.1	148.0	148.3
22.5°	149.1	149.1	146.8	145.6	145.7	146.2	146.4	146.9	148.0	150.1	150.5
25°	151.6	151.7	149.3	148.6	149.0	150.0	149.9	150.3	151.6	153.6	153.9
27.5°	155.0	154.7	152.5	152.2	152.6	153.4	153.3	153.4	154.4	156.2	156.6
30°	159.5	159.4	157.8	158.0	157.8	157.5	157.6	158.1	158.6	160.1	160.5
32.5°	163.8	164.0	163.0	163.9	165.2	166.1	164.7	163.4	162.8	163.6	164.0
35°	171.7	172.0	170.5	169.9	171.7	174.4	170.4	168.3	169.5	170.5	170.8
37.5°	185.1	185.3	182.7	180.3	179.0	181.5	177.6	177.8	182.0	183.9	183.9
40°	200.3	200.4	198.7	196.6	194.3	194.9	193.3	193.8	196.6	198.3	198.8
42.5°	218.5	218.3	215.6	212.6	211.9	212.5	209.9	209.5	212.7	215.9	215.9
45°	242.0	241.6	238.1	234.8	231.6	230.3	229.6	231.4	235.8	238.7	238.7
47.5°	267.4	266.2	264.4	261.7	258.9	257.6	256.5	257.4	260.6	261.7	261.8
50°	293.4	293.7	294.0	293.0	292.0	291.6	288.7	287.1	288.0	285.9	285.6
52.5°	324.3	324.8	328.3	331.3	333.1	334.0	328.6	323.0	319.8	315.7	314.5
55°	360.8	361.6	366.8	375.0	383.5	387.9	378.2	367.7	357.9	350.2	347.8
57.5°	401.5	402.9	410.0	425.7	443.1	453.7	437.2	418.1	399.3	388.2	386.3
60°	449.2	450.5	460.3	482.9	511.1	527.0	502.0	470.8	447.3	436.8	433.2
62.5°	505.9	506.0	518.1	544.5	581.7	603.8	570.0	528.2	504.1	491.3	487.9
65°	567.0	567.3	579.7	608.3	646.7	670.8	632.7	589.1	559.6	540.8	538.1
67.5°	610.1	611.4	624.5	658.9	694.8	716.5	677.1	627.8	593.7	571.3	569.0
70°	603.2	608.2	623.6	663.7	713.7	744.6	684.3	623.2	578.2	551.7	549.8
72.5°	526.1	535.6	556.1	608.8	688.7	731.3	645.0	558.2	507.2	484.7	481.3
75°	358.2	373.7	404.7	480.6	588.4	633.2	543.0	445.0	397.1	365.9	363.6
77.5°	159.7	163.2	202.6	290.0	406.0	454.7	394.5	291.1	218.5	174.3	165.0
80°	44.5	45.1	60.1	108.0	203.2	267.2	218.2	113.4	63.8	45.0	42.4
82.5°	14.2	15.4	18.8	28.0	68.3	121.9	70.1	30.3	21.5	17.2	15.5
85°	6.9	6.8	9.5	11.4	17.4	27.0	18.6	14.0	12.3	8.2	7.4
87.5°	2.9	3.0	4.4	4.0	5.1	4.4	6.0	6.3	6.6	3.6	3.1
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)