

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: P348694

Luminaire Tested: **ARCH-N-PA1-10-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348694
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-PA1-10-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1925 lumens
Efficiency: N/A
Efficacy: 137.5 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

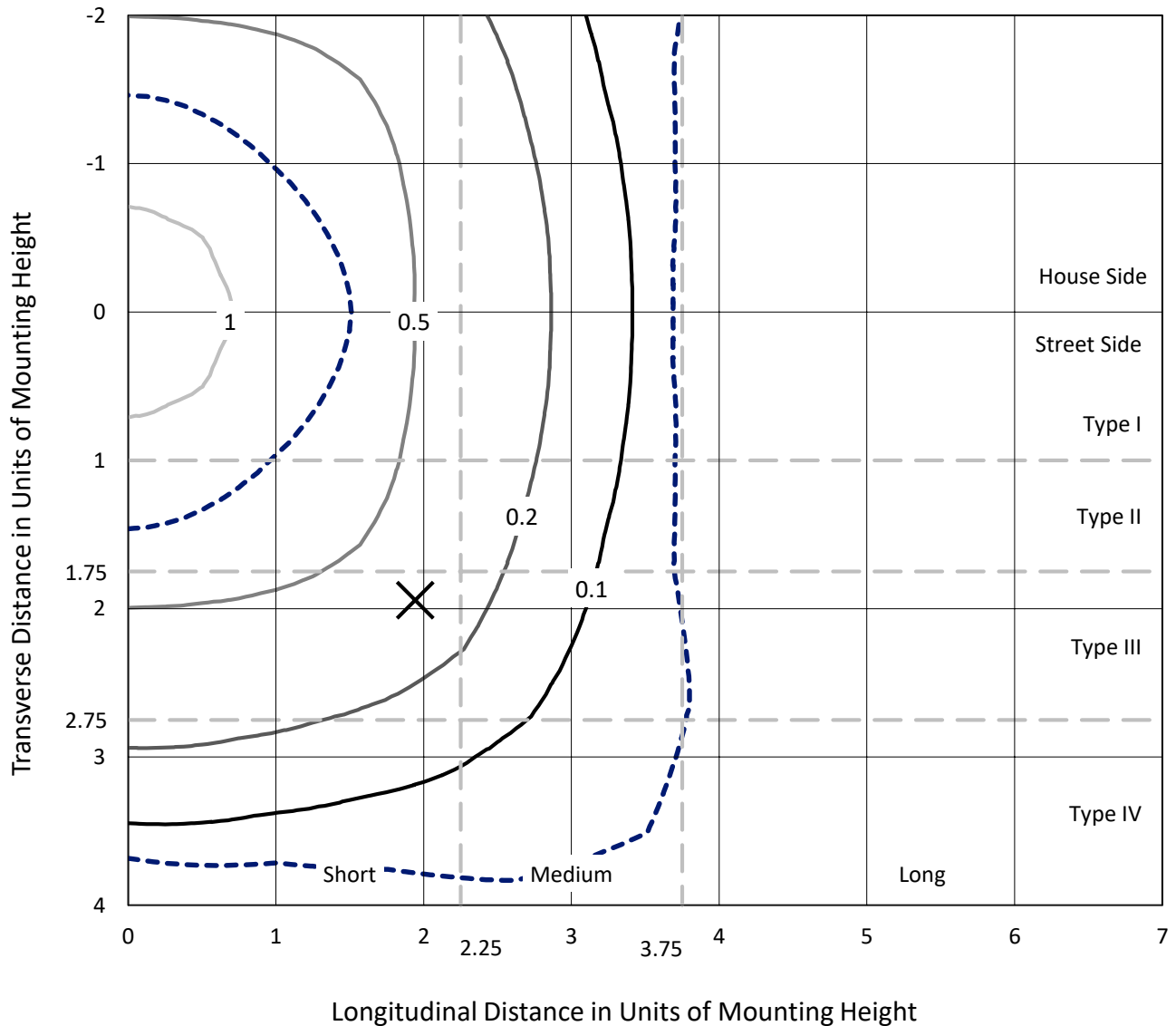
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

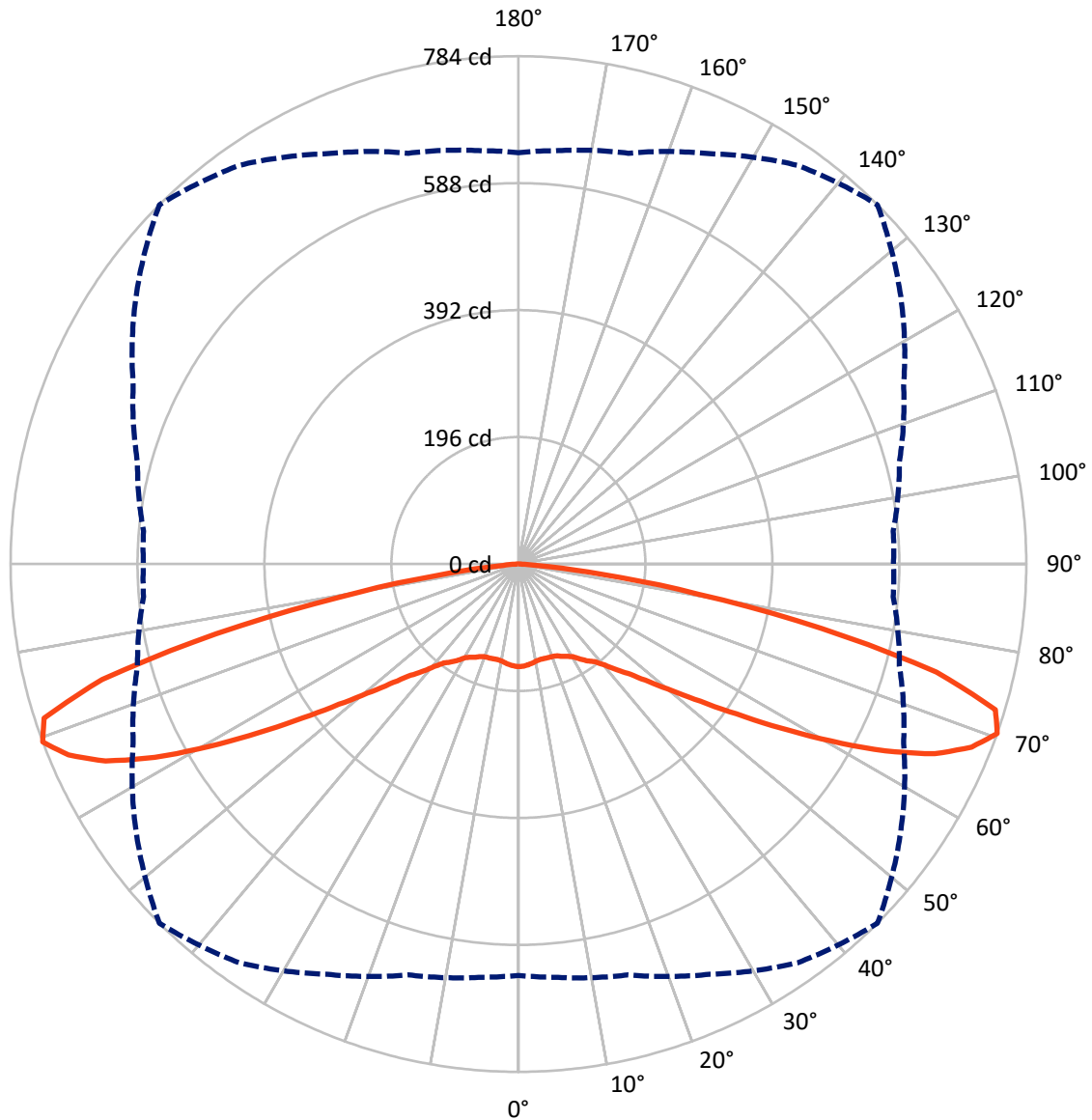


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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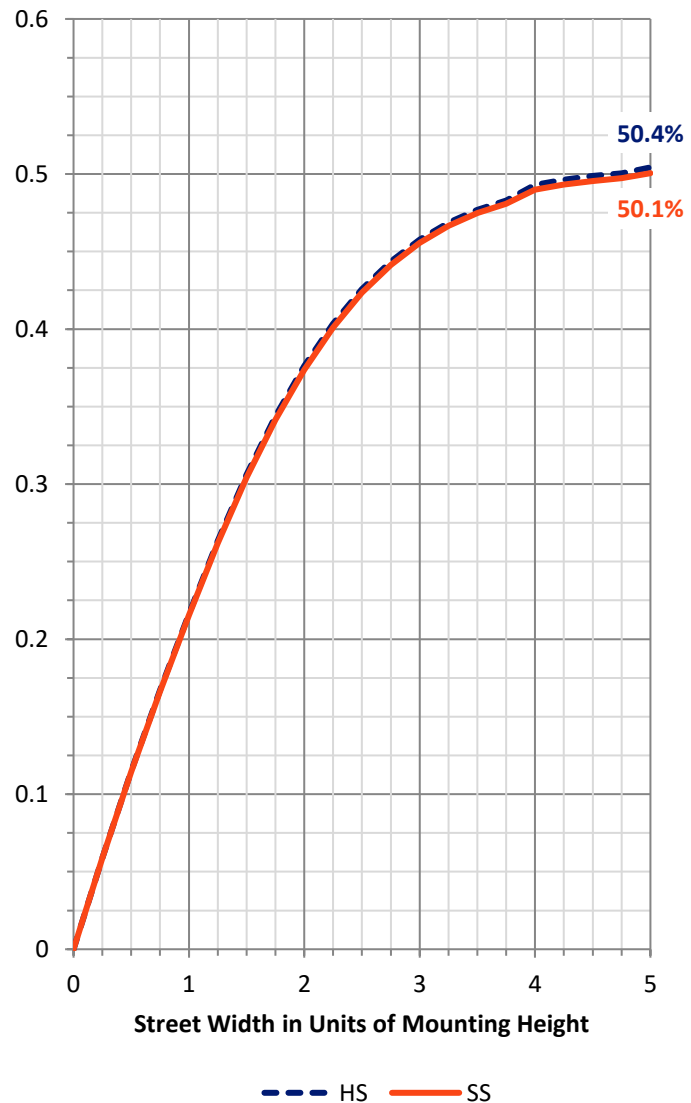
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	962.5	0.0	962.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	962.5	0.0	962.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	1925.0	0.0	1925.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.8	0.8
10°-20°	43.2	2.2
20°-30°	73.6	3.8
30°-40°	115.1	6.0
40°-50°	195.0	10.1
50°-60°	355.6	18.5
60°-70°	612.2	31.8
70°-80°	479.9	24.9
80°-90°	35.6	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°	1925.0	100.0
0°-180°	1925.0	100.0



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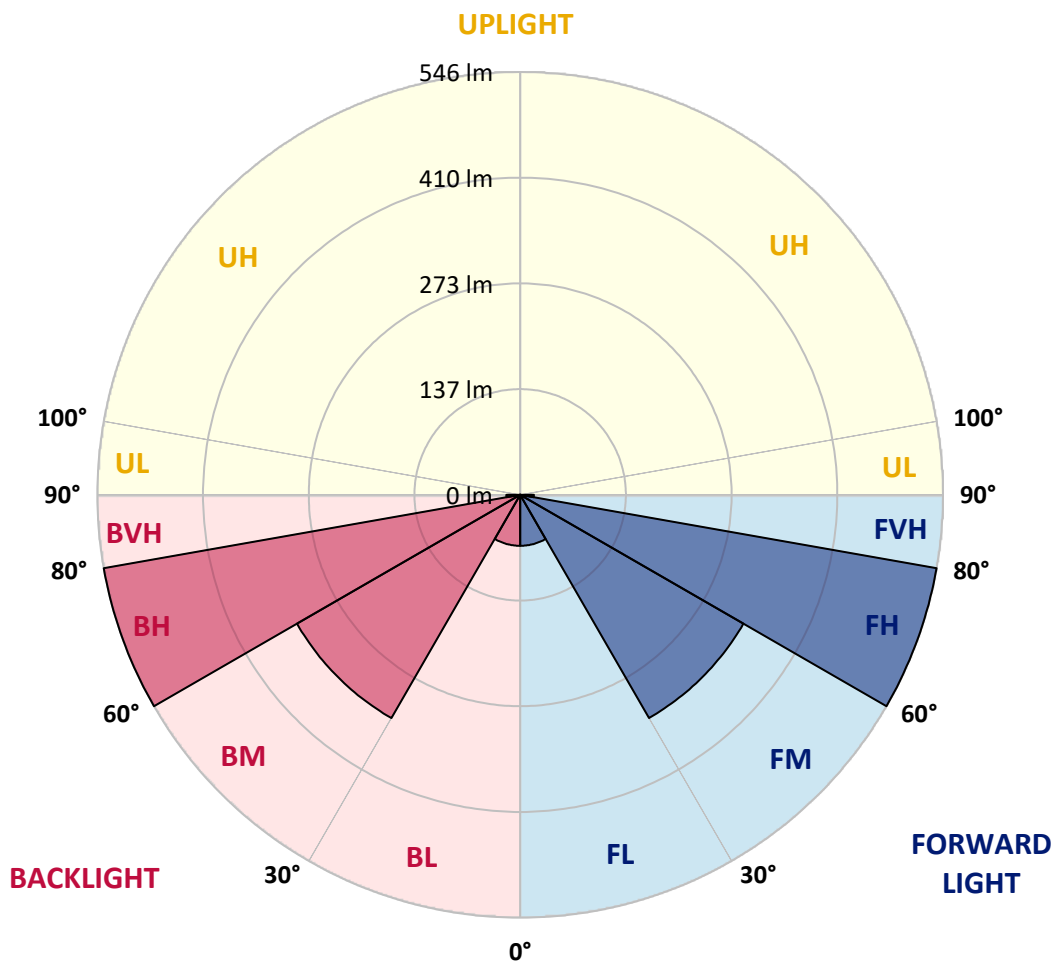
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	65.8	3.4			
FM (30°-60°)	332.9	17.3			
FH (60°-80°)	546.1	28.4			G0/660
FVH (80°-90°)	17.8	0.9			G1/100
BL (0°-30°)	65.8	3.4	B0/110		
BM (30°-60°)	332.9	17.3	B1/1000		
BH (60°-80°)	546.1	28.4	B2/1000		G0/660
BVH (80°-90°)	17.8	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4
2.5°	157.7	157.9	157.7	157.9	157.5	157.7	157.7	157.7	157.6	157.7	157.5
5°	156.3	156.5	156.2	156.3	156.1	156.3	156.4	156.3	156.2	156.3	156.0
7.5°	154.2	154.4	154.2	154.4	154.1	154.4	154.4	154.2	154.0	154.0	153.7
10°	153.1	153.1	152.6	152.4	151.9	152.0	152.2	152.4	152.6	153.0	152.9
12.5°	153.1	153.1	152.4	151.6	150.7	150.9	151.2	151.9	152.7	153.4	153.5
15°	153.8	153.7	152.6	151.2	150.7	151.2	151.4	151.9	153.1	154.3	154.4
17.5°	154.2	154.2	152.4	150.9	150.9	151.7	151.7	151.9	153.2	155.0	155.1
20°	155.1	155.1	152.8	151.1	151.1	152.1	152.1	152.4	153.8	155.8	156.1
22.5°	156.9	157.0	154.5	153.2	153.3	153.9	154.1	154.6	155.8	158.0	158.4
25°	159.5	159.6	157.2	156.4	156.8	157.9	157.8	158.2	159.5	161.6	162.0
27.5°	163.1	162.8	160.5	160.2	160.7	161.4	161.4	161.4	162.5	164.4	164.9
30°	167.9	167.7	166.1	166.3	166.1	165.8	165.9	166.4	167.0	168.5	168.9
32.5°	172.4	172.6	171.5	172.5	173.9	174.9	173.4	172.0	171.4	172.2	172.6
35°	180.7	181.0	179.4	178.8	180.7	183.5	179.4	177.1	178.4	179.4	179.8
37.5°	194.8	195.0	192.3	189.8	188.4	191.0	186.9	187.1	191.5	193.6	193.5
40°	210.8	210.9	209.1	206.9	204.5	205.1	203.4	204.0	206.9	208.7	209.2
42.5°	229.9	229.7	226.9	223.8	223.1	223.7	220.9	220.5	223.9	227.2	227.3
45°	254.7	254.3	250.6	247.1	243.8	242.4	241.7	243.5	248.1	251.2	251.3
47.5°	281.4	280.2	278.3	275.5	272.5	271.1	270.0	270.9	274.3	275.5	275.6
50°	308.8	309.1	309.5	308.4	307.3	306.9	303.9	302.1	303.2	300.9	300.6
52.5°	341.4	341.9	345.6	348.7	350.5	351.5	345.8	339.9	336.6	332.3	331.0
55°	379.8	380.6	386.0	394.7	403.6	408.3	398.0	387.0	376.7	368.6	366.0
57.5°	422.6	424.0	431.5	448.1	466.4	477.5	460.2	440.1	420.3	408.6	406.6
60°	472.7	474.1	484.5	508.3	537.9	554.6	528.4	495.5	470.8	459.7	455.9
62.5°	532.5	532.6	545.3	573.1	612.2	635.5	600.0	556.0	530.6	517.1	513.5
65°	596.7	597.0	610.2	640.2	680.6	706.0	665.9	620.0	588.9	569.1	566.3
67.5°	642.1	643.5	657.3	693.4	731.3	754.1	712.6	660.8	624.9	601.2	598.9
70°	634.9	640.1	656.3	698.5	751.1	783.7	720.2	655.9	608.6	580.7	578.7
72.5°	553.7	563.7	585.3	640.7	724.8	769.7	678.9	587.5	533.9	510.1	506.5
75°	377.0	393.3	425.9	505.8	619.3	666.4	571.5	468.4	418.0	385.1	382.7
77.5°	168.1	171.8	213.2	305.2	427.3	478.6	415.2	306.4	230.0	183.5	173.6
80°	46.9	47.4	63.3	113.7	213.9	281.2	229.6	119.4	67.1	47.3	44.6
82.5°	14.9	16.2	19.7	29.5	71.9	128.3	73.8	31.8	22.7	18.1	16.3
85°	7.3	7.2	10.0	12.0	18.3	28.4	19.5	14.8	12.9	8.6	7.8
87.5°	3.1	3.1	4.6	4.2	5.3	4.6	6.3	6.6	6.9	3.8	3.3
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)