

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: P348729

Luminaire Tested: **ARCH-N-PA1-10-827-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348729  
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-PA1-10-827-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 270mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1692 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

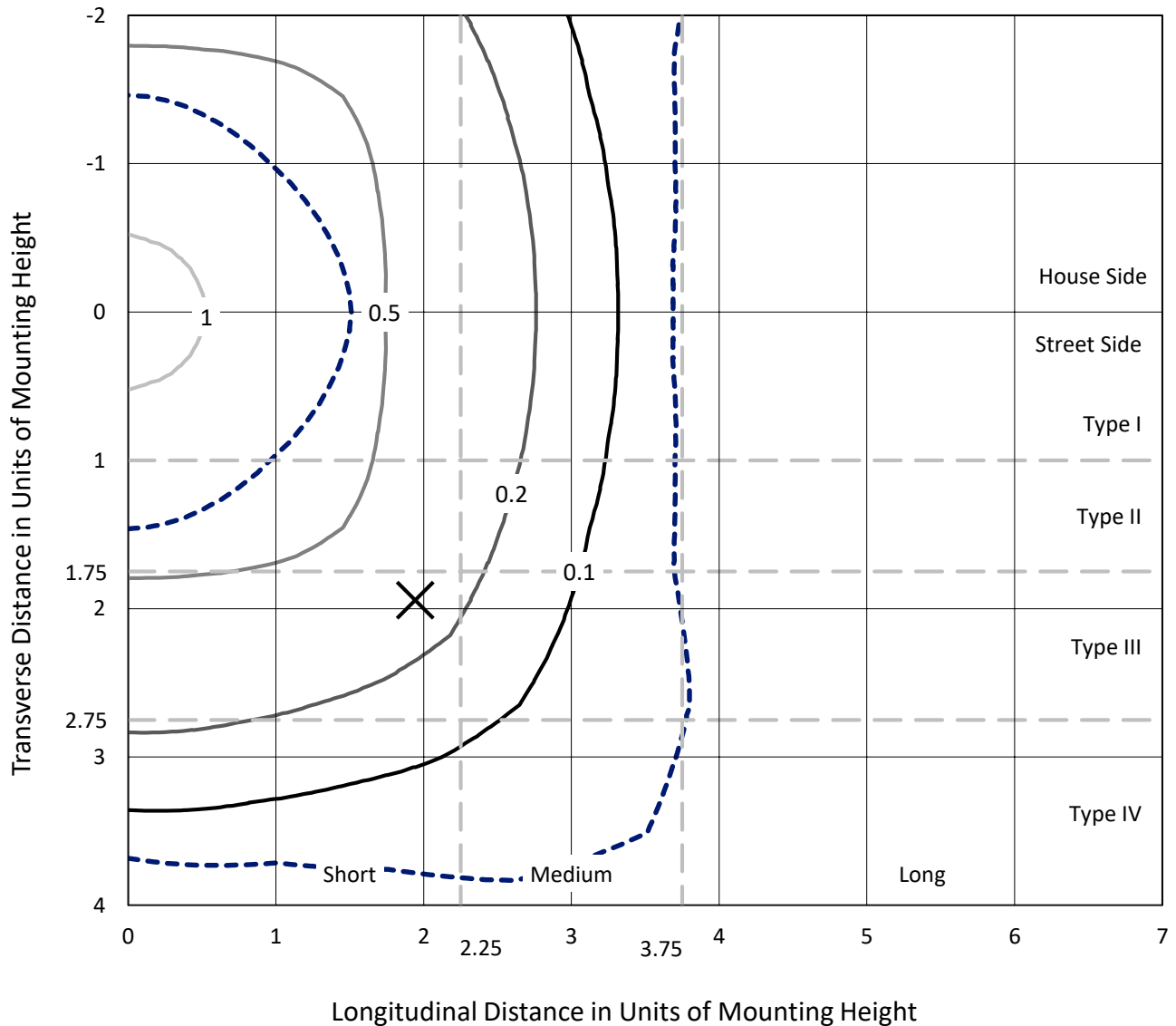
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

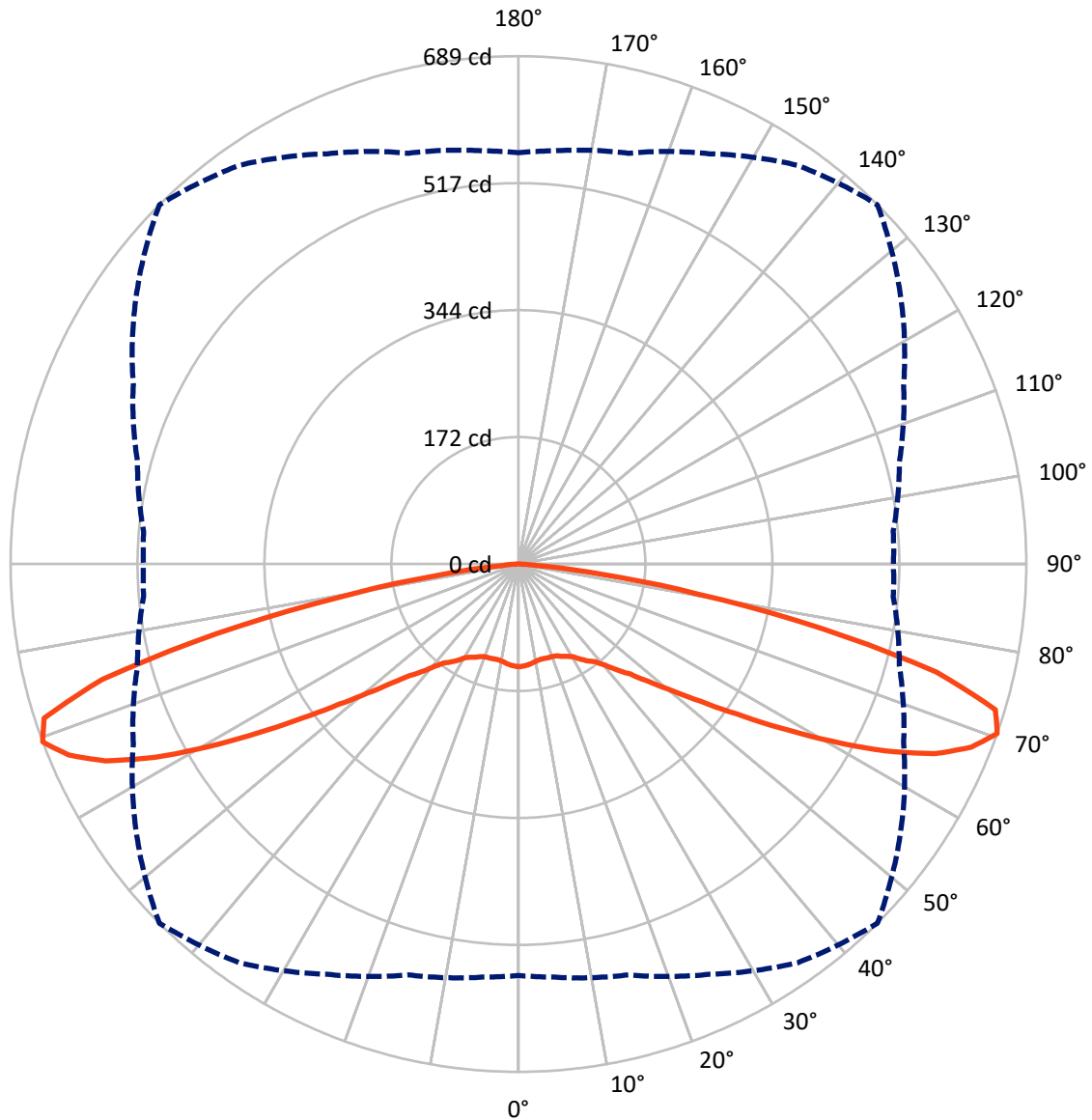


Based on 10 foot mounting height. Maximum calculated value = 1.4 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P348729

CATALOG NUMBER: ARCH-N-PA1-10-827-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P348729

CATALOG NUMBER: ARCH-N-PA1-10-827-U-5WQ

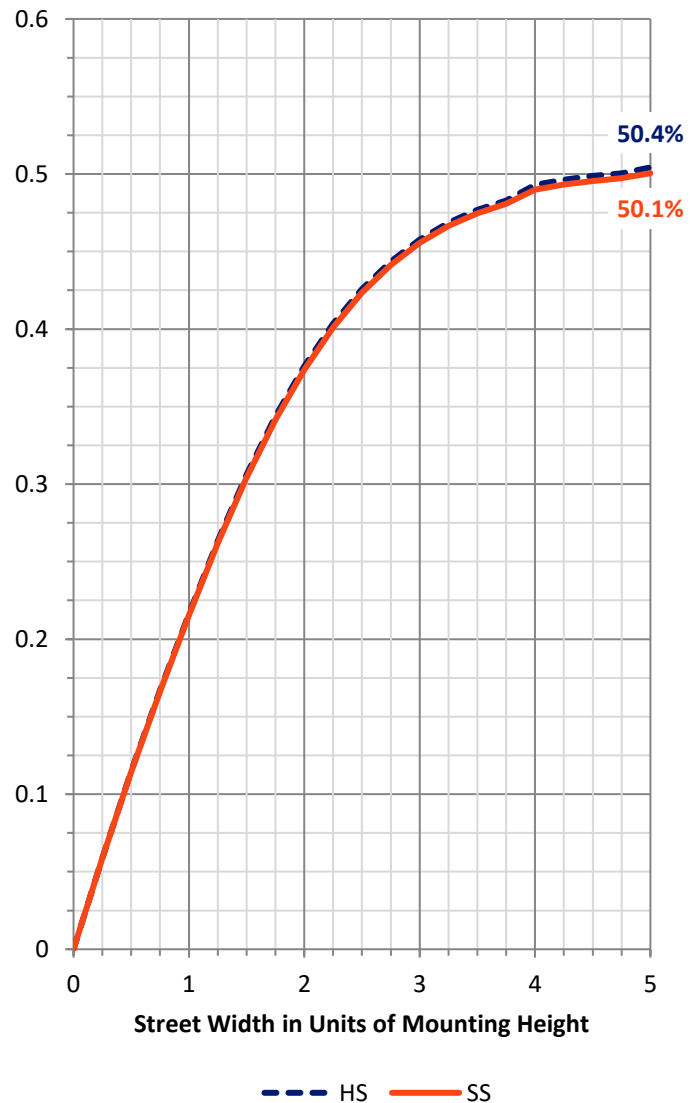
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	846.0	0.0	846.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	846.0	0.0	846.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	1692.0	0.0	1692.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.0	0.8
10°-20°	38.0	2.2
20°-30°	64.7	3.8
30°-40°	101.1	6.0
40°-50°	171.4	10.1
50°-60°	312.6	18.5
60°-70°	538.1	31.8
70°-80°	421.8	24.9
80°-90°	31.3	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°	1692.0	100.0
0°-180°	1692.0	100.0



REPORT NUMBER: P348729

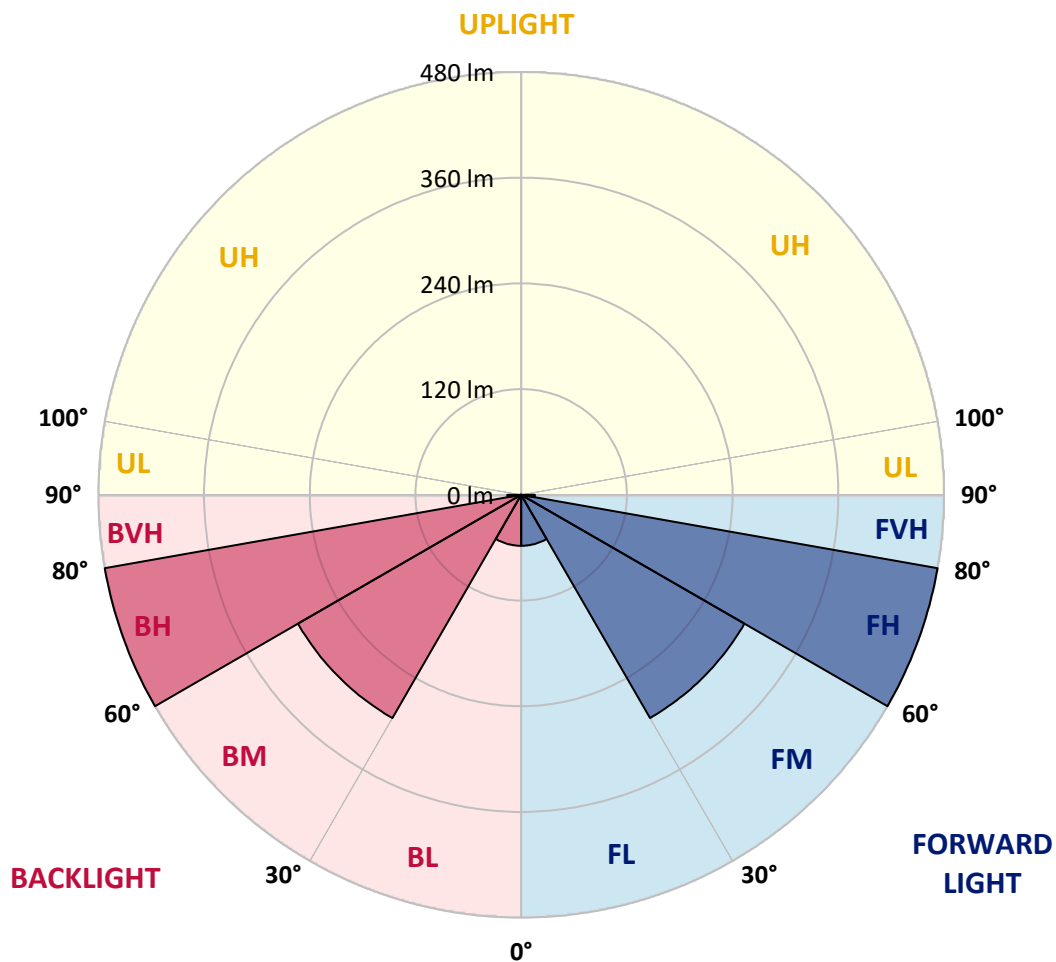
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	57.8	3.4			
FM	(30°-60°)	292.6	17.3			
FH	(60°-80°)	480.0	28.4			G0/660
FVH	(80°-90°)	15.6	0.9			G1/100
BL	(0°-30°)	57.8	3.4	B0/110		
BM	(30°-60°)	292.6	17.3	B1/1000		
BH	(60°-80°)	480.0	28.4	B1/500		G0/660
BVH	(80°-90°)	15.6	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3
2.5°	138.6	138.8	138.6	138.7	138.5	138.6	138.6	138.6	138.5	138.6	138.5
5°	137.4	137.5	137.3	137.4	137.2	137.4	137.5	137.4	137.3	137.3	137.1
7.5°	135.6	135.7	135.5	135.7	135.4	135.7	135.7	135.5	135.3	135.3	135.1
10°	134.6	134.6	134.2	134.0	133.5	133.6	133.8	133.9	134.1	134.4	134.4
12.5°	134.6	134.6	133.9	133.2	132.5	132.6	132.9	133.5	134.2	134.8	134.9
15°	135.2	135.1	134.1	132.9	132.4	132.9	133.1	133.5	134.6	135.6	135.7
17.5°	135.6	135.6	134.0	132.6	132.6	133.4	133.3	133.5	134.7	136.2	136.3
20°	136.3	136.3	134.3	132.8	132.8	133.7	133.7	134.0	135.2	136.9	137.2
22.5°	137.9	138.0	135.8	134.7	134.8	135.3	135.4	135.9	137.0	138.9	139.2
25°	140.2	140.3	138.1	137.5	137.9	138.8	138.7	139.0	140.2	142.1	142.4
27.5°	143.4	143.1	141.1	140.8	141.2	141.9	141.8	141.9	142.8	144.5	144.9
30°	147.5	147.4	146.0	146.1	146.0	145.7	145.8	146.2	146.8	148.1	148.5
32.5°	151.6	151.7	150.8	151.6	152.9	153.7	152.4	151.2	150.6	151.3	151.7
35°	158.8	159.1	157.7	157.2	158.8	161.3	157.7	155.7	156.8	157.7	158.0
37.5°	171.2	171.4	169.0	166.8	165.6	167.9	164.3	164.4	168.4	170.1	170.1
40°	185.3	185.4	183.8	181.8	179.7	180.3	178.8	179.3	181.8	183.5	183.9
42.5°	202.1	201.9	199.5	196.7	196.1	196.6	194.2	193.8	196.8	199.7	199.8
45°	223.9	223.5	220.3	217.2	214.3	213.0	212.4	214.0	218.1	220.8	220.9
47.5°	247.3	246.3	244.6	242.1	239.5	238.3	237.3	238.1	241.1	242.1	242.2
50°	271.5	271.7	272.0	271.1	270.1	269.7	267.1	265.6	266.5	264.5	264.2
52.5°	300.1	300.5	303.7	306.5	308.1	309.0	304.0	298.8	295.9	292.0	290.9
55°	333.8	334.5	339.3	346.9	354.7	358.9	349.9	340.1	331.1	324.0	321.7
57.5°	371.4	372.7	379.2	393.9	409.9	419.7	404.5	386.8	369.4	359.2	357.4
60°	415.5	416.7	425.8	446.7	472.8	487.5	464.4	435.5	413.8	404.0	400.7
62.5°	468.0	468.1	479.3	503.7	538.1	558.6	527.3	488.7	466.3	454.5	451.3
65°	524.5	524.8	536.3	562.7	598.3	620.5	585.3	545.0	517.7	500.3	497.8
67.5°	564.4	565.6	577.7	609.5	642.8	662.8	626.4	580.8	549.2	528.5	526.4
70°	558.0	562.6	576.9	614.0	660.2	688.9	633.0	576.5	534.9	510.4	508.6
72.5°	486.7	495.4	514.5	563.2	637.1	676.6	596.7	516.4	469.2	448.4	445.2
75°	331.4	345.7	374.4	444.6	544.3	585.8	502.3	411.7	367.4	338.5	336.4
77.5°	147.8	151.0	187.4	268.3	375.6	420.7	365.0	269.3	202.2	161.2	152.6
80°	41.2	41.7	55.6	99.9	188.0	247.2	201.8	104.9	59.0	41.6	39.2
82.5°	13.1	14.2	17.4	25.9	63.2	112.8	64.9	28.0	19.9	15.9	14.3
85°	6.4	6.3	8.8	10.5	16.1	25.0	17.2	13.0	11.4	7.6	6.8
87.5°	2.7	2.7	4.1	3.7	4.7	4.0	5.5	5.8	6.1	3.4	2.9
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)