

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: P348732

Luminaire Tested: **ARCH-N-PA1-30-827-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348732  
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-PA1-30-827-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 560mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3306 lumens  
Efficiency: N/A  
Efficacy: 106.6 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

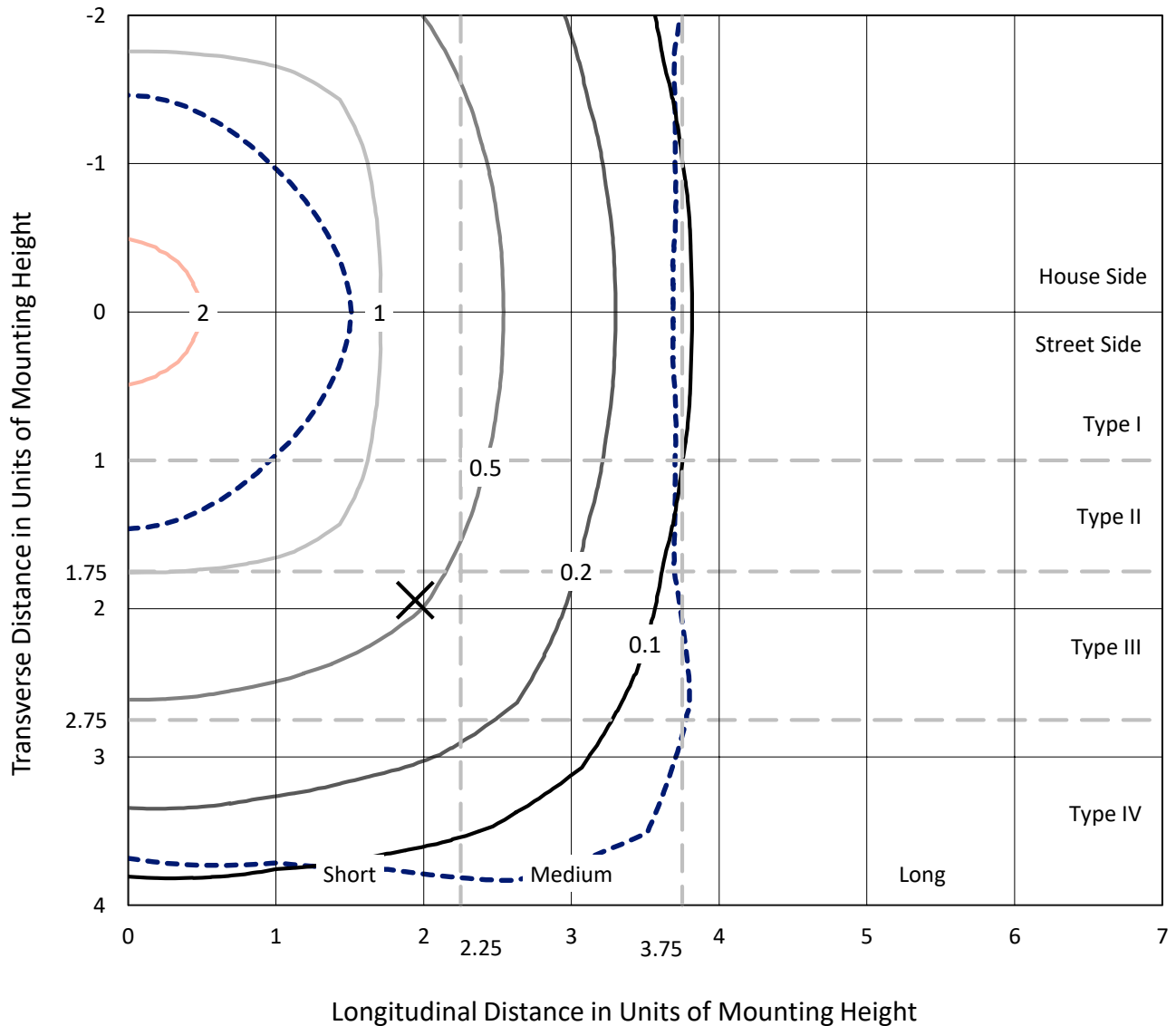
Input Watts (W): 31  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

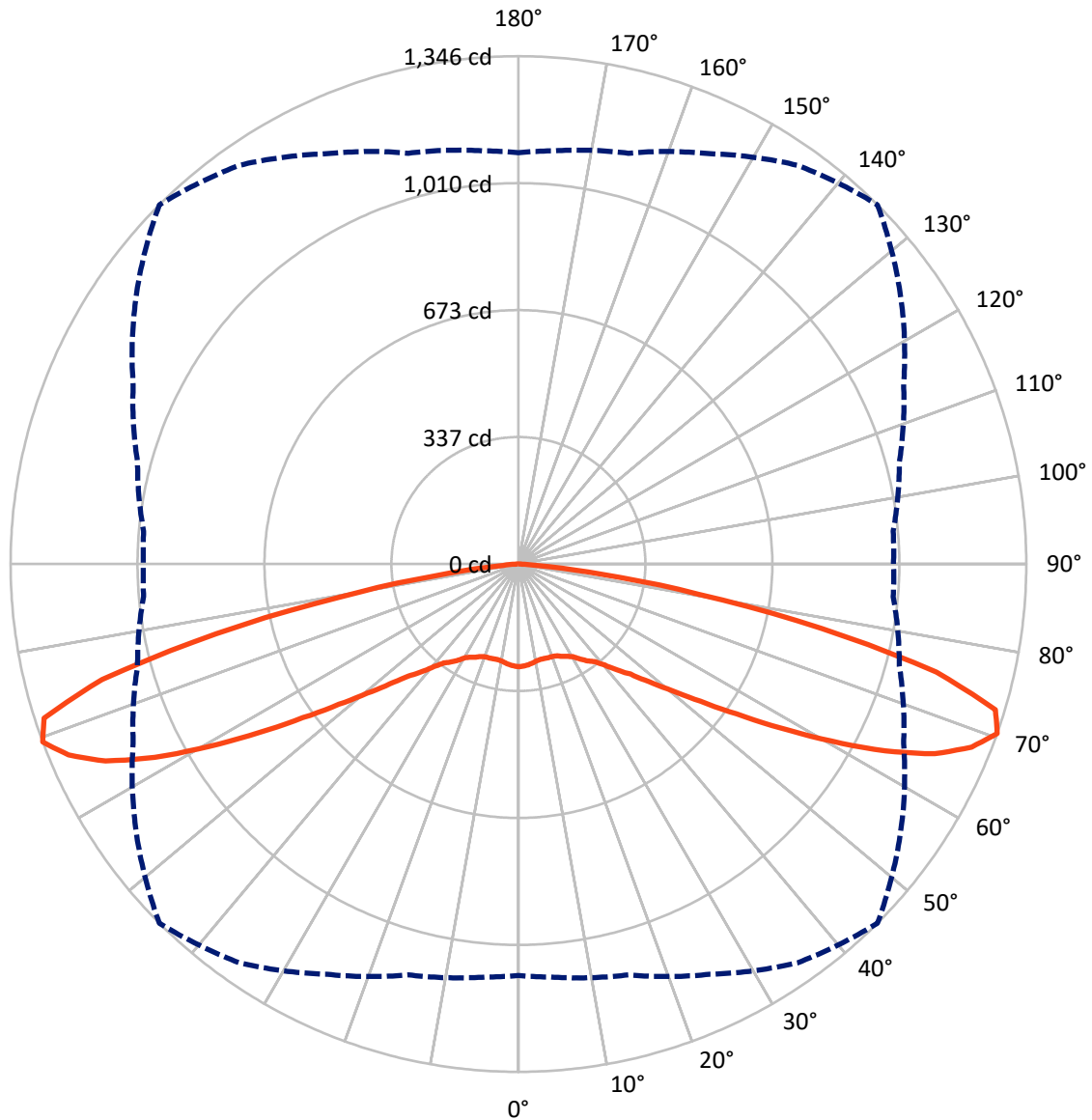


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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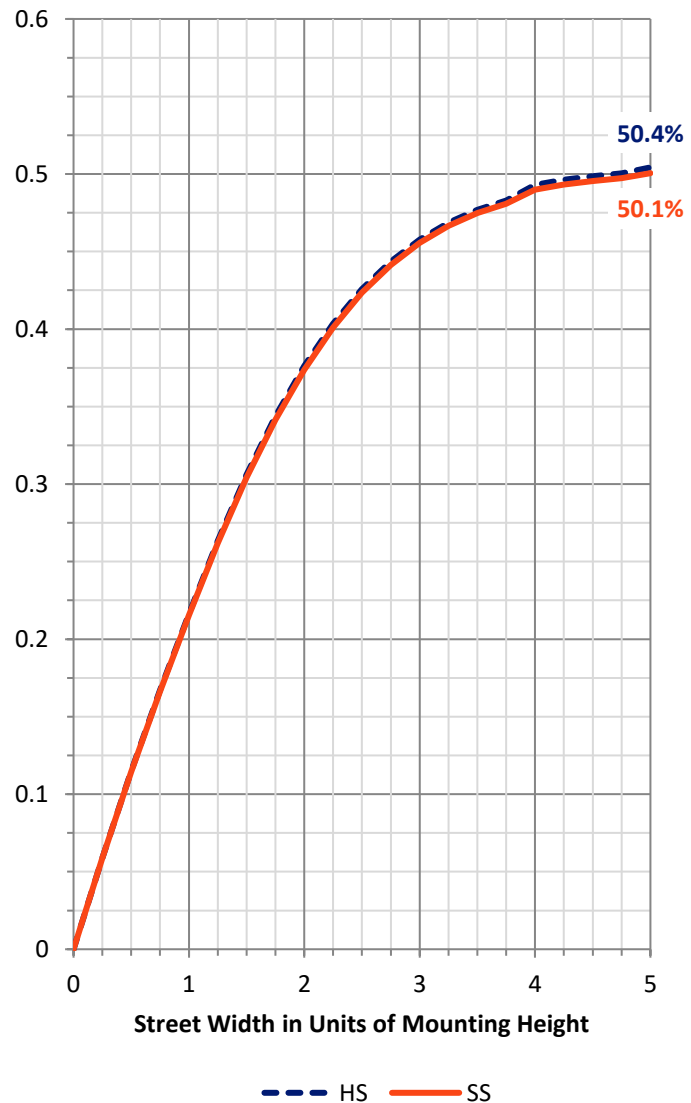
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1653.0	0.0	1653.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1653.0	0.0	1653.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3306.0	0.0	3306.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.4	0.8
10°-20°	74.2	2.2
20°-30°	126.5	3.8
30°-40°	197.6	6.0
40°-50°	334.9	10.1
50°-60°	610.7	18.5
60°-70°	1051.4	31.8
70°-80°	824.1	24.9
80°-90°	61.1	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°	3306.0	100.0
0°-180°	3306.0	100.0



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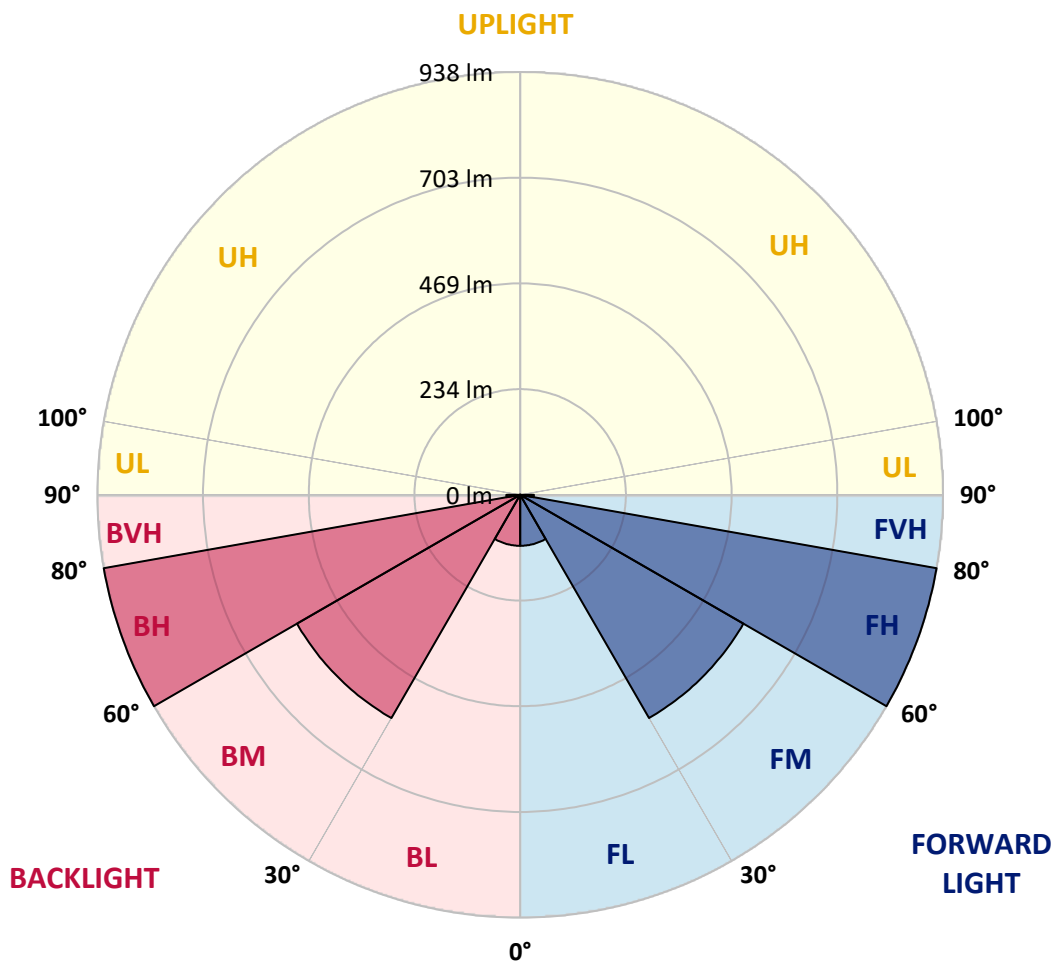
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	113.0	3.4			
FM (30°-60°)	571.6	17.3			
FH (60°-80°)	937.8	28.4			G1/1800
FVH (80°-90°)	30.6	0.9			G1/100
BL (0°-30°)	113.0	3.4	B1/500		
BM (30°-60°)	571.6	17.3	B1/1000		
BH (60°-80°)	937.8	28.4	B2/1000		G1/1800
BVH (80°-90°)	30.6	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	272.1	272.1	272.1	272.1	272.1	272.1	272.1	272.1	272.1	272.1	272.1
2.5°	270.9	271.2	270.9	271.1	270.6	270.8	270.8	270.8	270.7	270.8	270.6
5°	268.5	268.7	268.3	268.5	268.1	268.5	268.6	268.5	268.3	268.4	267.9
7.5°	264.9	265.1	264.8	265.1	264.6	265.2	265.1	264.8	264.4	264.4	264.0
10°	262.9	263.0	262.1	261.8	260.8	261.0	261.4	261.7	262.0	262.7	262.6
12.5°	263.0	263.0	261.7	260.3	258.9	259.2	259.7	260.9	262.2	263.4	263.6
15°	264.1	264.0	262.0	259.7	258.7	259.7	260.1	260.8	262.9	265.0	265.1
17.5°	264.9	264.9	261.8	259.2	259.1	260.6	260.5	260.8	263.1	266.2	266.3
20°	266.3	266.3	262.4	259.5	259.5	261.1	261.3	261.8	264.1	267.5	268.0
22.5°	269.5	269.6	265.4	263.1	263.3	264.3	264.6	265.5	267.6	271.3	272.0
25°	273.9	274.2	269.9	268.6	269.4	271.2	271.0	271.6	273.9	277.6	278.2
27.5°	280.2	279.6	275.7	275.1	275.9	277.2	277.1	277.2	279.1	282.4	283.1
30°	288.3	288.1	285.2	285.5	285.2	284.8	284.9	285.8	286.7	289.4	290.1
32.5°	296.1	296.4	294.6	296.3	298.7	300.3	297.8	295.4	294.3	295.7	296.4
35°	310.4	310.9	308.2	307.1	310.4	315.2	308.1	304.1	306.3	308.2	308.7
37.5°	334.5	334.9	330.3	325.9	323.5	328.1	321.0	321.3	329.0	332.5	332.3
40°	362.1	362.2	359.1	355.3	351.2	352.2	349.4	350.3	355.3	358.5	359.4
42.5°	394.9	394.6	389.8	384.3	383.1	384.2	379.4	378.7	384.5	390.2	390.3
45°	437.4	436.7	430.4	424.4	418.6	416.2	415.0	418.2	426.2	431.4	431.5
47.5°	483.3	481.2	477.9	473.1	468.1	465.6	463.7	465.2	471.0	473.1	473.3
50°	530.4	530.8	531.5	529.6	527.8	527.0	521.9	518.9	520.7	516.8	516.3
52.5°	586.3	587.1	593.5	598.8	602.0	603.7	593.9	583.8	578.1	570.6	568.4
55°	652.2	653.6	662.9	677.8	693.1	701.2	683.6	664.6	647.0	633.1	628.6
57.5°	725.7	728.2	741.0	769.6	800.9	820.1	790.3	755.8	721.8	701.8	698.3
60°	811.9	814.3	832.0	872.9	923.8	952.5	907.5	850.9	808.6	789.5	783.0
62.5°	914.5	914.7	936.4	984.2	1051.4	1091.4	1030.4	954.8	911.2	888.1	881.9
65°	1024.8	1025.3	1047.9	1099.5	1168.9	1212.5	1143.6	1064.8	1011.5	977.4	972.6
67.5°	1102.8	1105.1	1128.8	1190.9	1255.9	1295.1	1223.8	1134.8	1073.1	1032.6	1028.5
70°	1090.3	1099.3	1127.2	1199.7	1290.0	1346.0	1236.8	1126.5	1045.1	997.2	993.9
72.5°	950.9	968.0	1005.2	1100.4	1244.8	1321.9	1165.9	1008.9	916.9	876.1	869.9
75°	647.5	675.4	731.5	868.7	1063.5	1144.5	981.5	804.4	717.8	661.4	657.2
77.5°	288.7	295.0	366.1	524.2	733.9	821.9	713.1	526.2	395.0	315.1	298.2
80°	80.5	81.5	108.7	195.2	367.3	482.9	394.3	205.0	115.3	81.3	76.6
82.5°	25.6	27.8	33.9	50.6	123.5	220.4	126.7	54.7	38.9	31.1	28.0
85°	12.5	12.4	17.2	20.6	31.5	48.8	33.6	25.4	22.2	14.8	13.3
87.5°	5.2	5.4	8.0	7.2	9.2	7.9	10.8	11.4	11.9	6.6	5.7
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)