

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: P397706

Luminaire Tested: **ARCH-S-PA1-30-750-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA1-30-750-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4833 lumens  
Efficiency: N/A  
Efficacy: 155.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

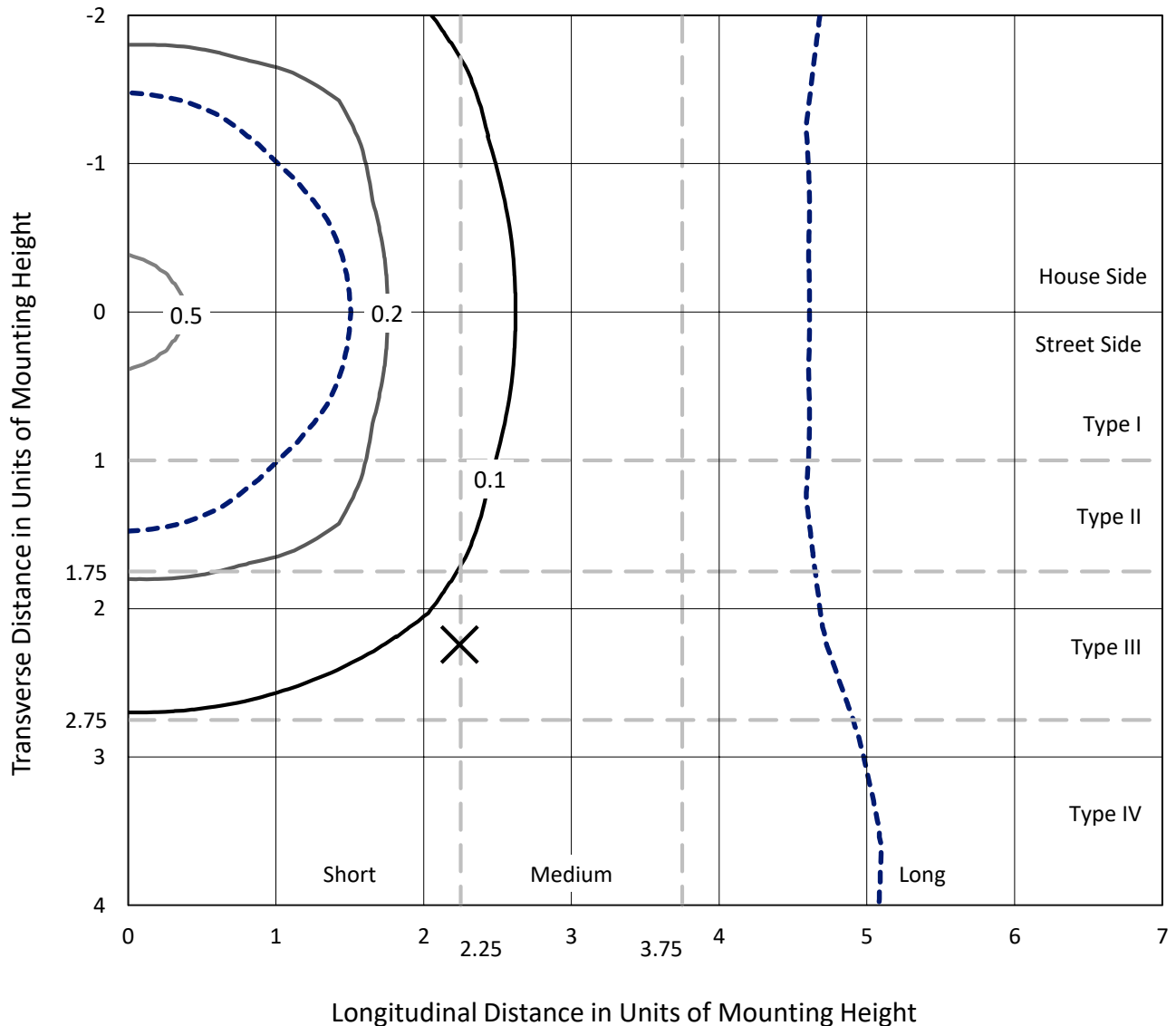
Input Watts (W): 31  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

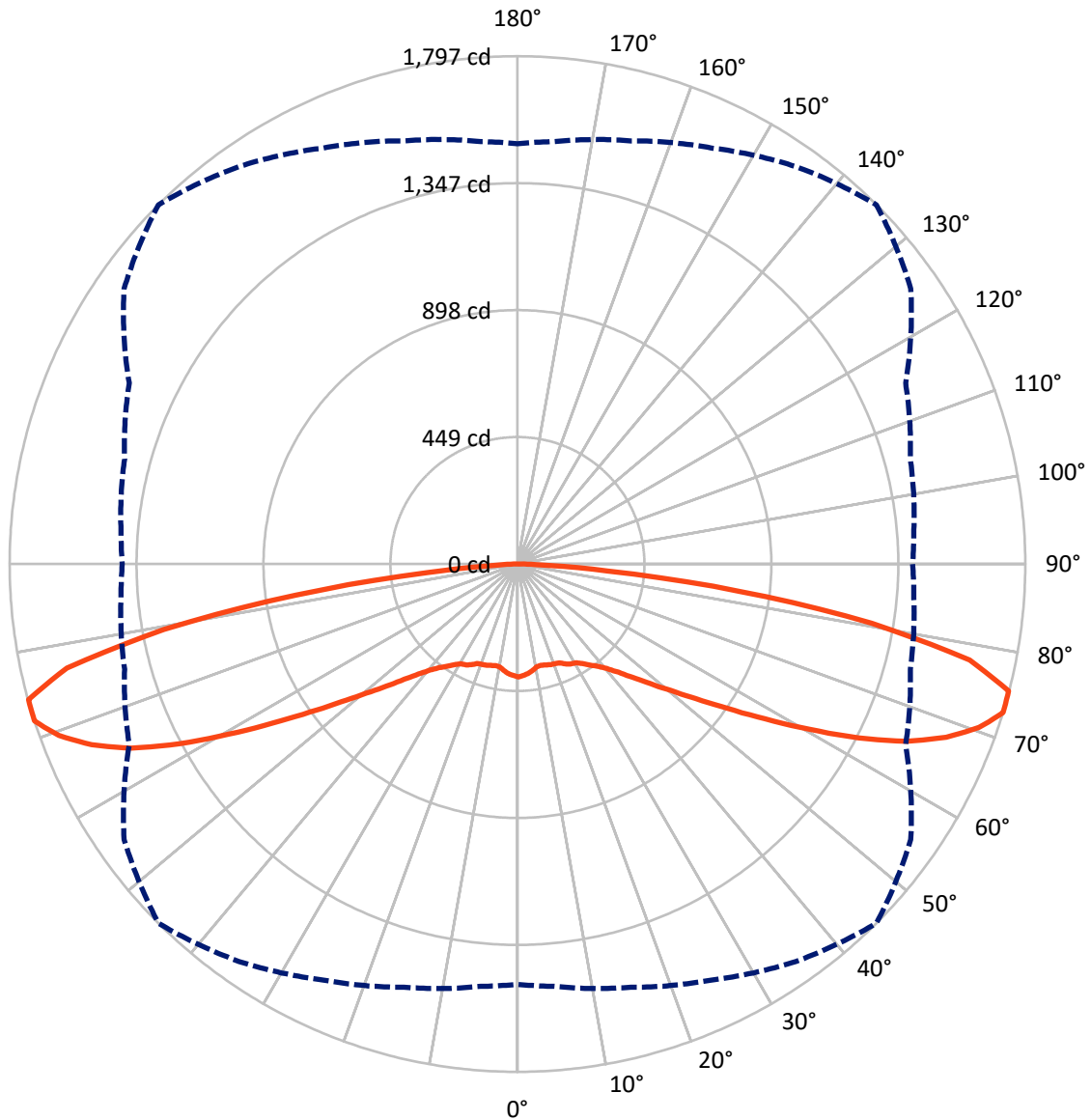


Based on 25 foot mounting height. Maximum calculated value = 0.6 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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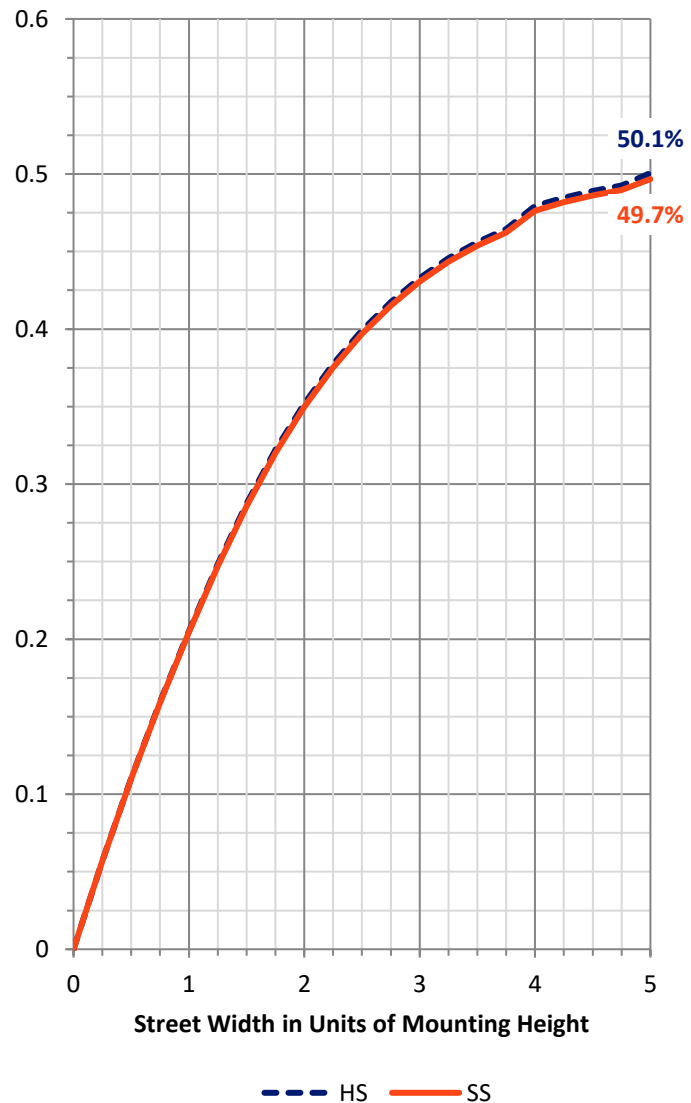
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2416.5	0.0	2416.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2416.5	0.0	2416.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4833.0	0.0	4833.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.7	0.8
10°-20°	106.4	2.2
20°-30°	180.9	3.7
30°-40°	275.9	5.7
40°-50°	454.3	9.4
50°-60°	793.3	16.4
60°-70°	1330.0	27.5
70°-80°	1423.4	29.5
80°-90°	232.2	4.8
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°	4833.0	100.0
0°-180°	4833.0	100.0



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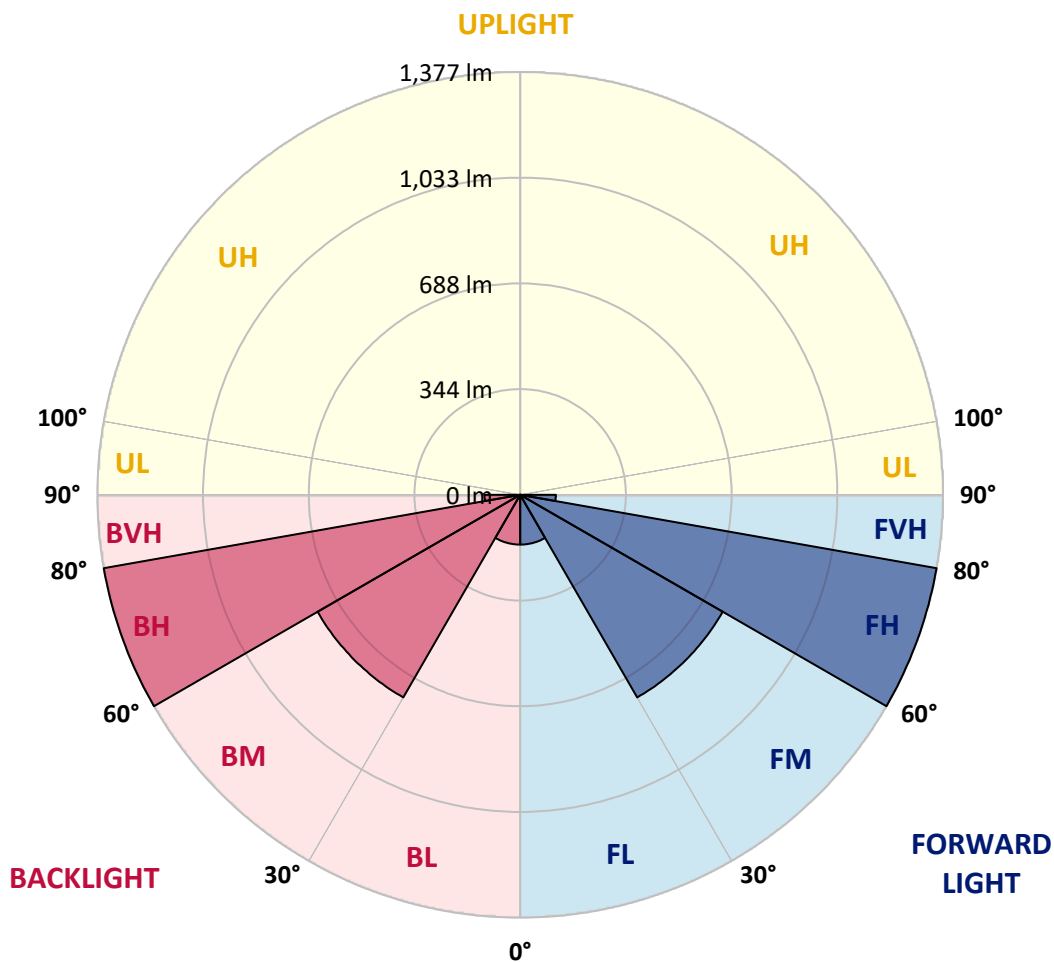
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	162.0	3.4			
FM (30°-60°)	761.7	15.8			
FH (60°-80°)	1376.7	28.5			G1/1800
FVH (80°-90°)	116.1	2.4			G2/225
BL (0°-30°)	162.0	3.4	B1/500		
BM (30°-60°)	761.7	15.8	B1/1000		
BH (60°-80°)	1376.7	28.5	B3/2500		G1/1800
BVH (80°-90°)	116.1	2.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9
2.5°	397.5	397.5	397.5	396.9	395.6	395.0	393.8	394.4	394.4	394.4	394.4
5°	392.5	392.5	391.9	391.3	390.1	389.4	388.2	389.4	389.4	389.4	389.4
7.5°	383.3	383.9	383.9	383.3	381.4	380.8	379.0	379.6	379.6	380.2	379.6
10°	378.3	378.3	377.7	374.6	371.5	370.3	369.7	371.5	373.4	375.2	375.2
12.5°	378.3	378.3	377.1	372.2	367.8	367.8	367.8	370.3	374.0	377.7	378.3
15°	380.2	380.2	377.7	372.2	369.7	370.3	370.3	372.8	377.1	382.0	382.7
17.5°	381.4	381.4	378.3	372.8	372.8	374.6	373.4	375.2	379.6	385.1	385.7
20°	383.3	383.3	379.0	374.6	374.6	376.5	376.5	378.3	382.0	387.6	388.2
22.5°	387.0	386.4	382.0	378.3	378.3	379.6	380.8	383.3	386.4	391.3	392.5
25°	391.3	391.3	387.6	387.0	388.2	391.3	390.7	390.1	391.3	395.6	397.5
27.5°	393.8	393.8	391.3	393.1	398.1	400.6	397.5	395.0	395.0	399.3	399.9
30°	401.8	401.2	398.7	399.9	404.3	405.5	403.6	400.6	402.4	407.3	408.0
32.5°	415.4	415.4	411.7	411.7	414.7	419.7	413.5	411.7	414.1	419.7	420.3
35°	436.4	436.4	431.4	428.9	431.4	438.2	428.9	428.3	432.6	438.8	439.4
37.5°	462.9	462.9	459.8	453.6	454.2	458.6	450.5	449.9	458.0	464.7	464.7
40°	496.2	498.1	495.0	487.6	485.1	485.7	479.6	480.2	489.4	497.5	497.5
42.5°	537.6	538.8	533.9	528.3	525.2	523.4	517.2	518.4	529.5	540.0	540.0
45°	587.6	588.2	583.2	576.5	572.7	571.5	565.3	568.4	580.8	591.9	591.3
47.5°	643.7	644.3	639.4	632.6	630.1	632.0	625.8	625.8	636.9	646.2	645.0
50°	707.3	708.5	703.0	699.9	698.0	703.0	695.6	688.8	696.2	705.4	704.2
52.5°	777.7	780.7	777.0	778.3	785.1	791.2	778.9	764.1	767.8	774.0	772.1
55°	862.8	866.5	867.8	872.1	890.0	900.5	880.1	855.4	853.6	854.2	851.1
57.5°	958.5	961.0	969.0	978.9	1015.9	1032.6	1000.5	957.9	944.3	936.3	934.4
60°	1054.8	1059.1	1078.8	1099.2	1156.0	1186.2	1136.9	1065.3	1036.3	1021.4	1018.4
62.5°	1151.7	1160.3	1192.4	1227.0	1309.7	1354.7	1278.8	1175.1	1133.2	1114.6	1109.7
65°	1264.0	1274.5	1313.4	1357.2	1449.2	1512.7	1420.8	1288.7	1243.6	1218.9	1212.8
67.5°	1395.5	1406.6	1438.0	1486.8	1573.8	1636.2	1554.7	1404.7	1346.1	1314.6	1309.7
70°	1503.5	1513.3	1547.3	1596.7	1661.5	1732.4	1654.7	1497.3	1444.2	1422.0	1418.9
72.5°	1486.8	1499.8	1549.8	1623.8	1716.4	1796.6	1698.5	1515.2	1438.7	1407.8	1397.9
75°	1298.6	1312.8	1372.0	1505.9	1675.0	1794.8	1634.9	1396.1	1306.0	1280.0	1275.1
77.5°	859.7	873.3	973.3	1184.4	1462.7	1635.5	1443.0	1169.6	1024.5	962.2	958.5
80°	347.5	364.8	460.4	684.5	1036.9	1271.4	1070.2	748.6	504.9	407.3	387.6
82.5°	80.9	96.3	140.1	252.4	530.8	791.8	577.1	279.6	162.3	115.4	103.7
85°	33.9	34.6	59.9	82.1	166.0	319.7	188.9	101.8	82.7	60.5	59.2
87.5°	13.0	13.6	29.0	34.6	53.1	60.5	64.2	52.5	48.8	30.2	29.0
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)