

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: P397751

Luminaire Tested: **ARCH-S-PA1-40-727-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397751  
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-PA1-40-727-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5215 lumens  
Efficiency: N/A  
Efficacy: 130.4 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

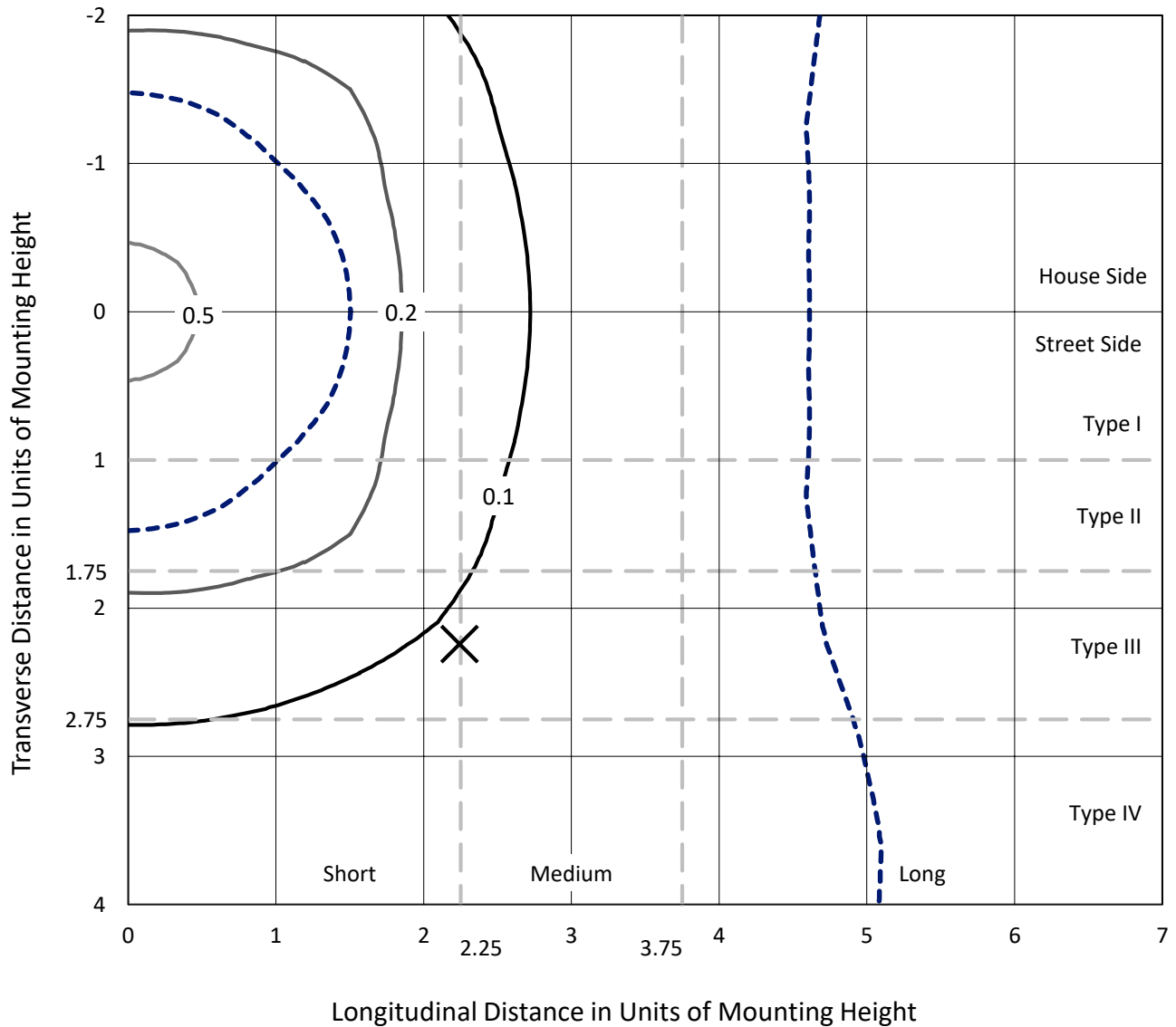
Input Watts (W): 40  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

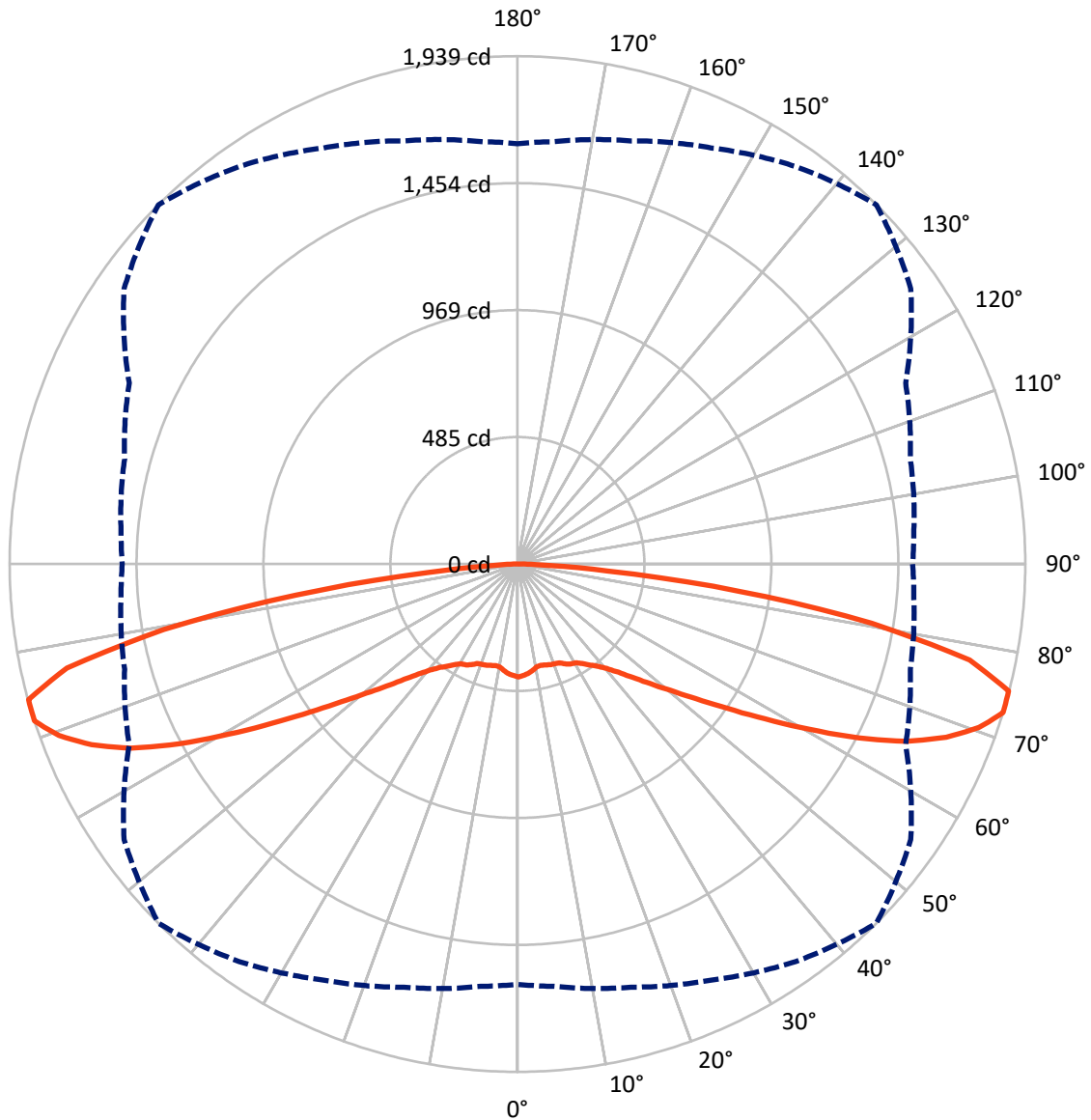


Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type V - Short - Non-Cutoff

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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	2607.5	0.0	2607.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2607.5	0.0	2607.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5215.0	0.0	5215.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.6	0.8
10°-20°	114.9	2.2
20°-30°	195.2	3.7
30°-40°	297.7	5.7
40°-50°	490.2	9.4
50°-60°	856.0	16.4
60°-70°	1435.1	27.5
70°-80°	1535.9	29.5
80°-90°	250.5	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°	5215.0	100.0
0°-180°	5215.0	100.0



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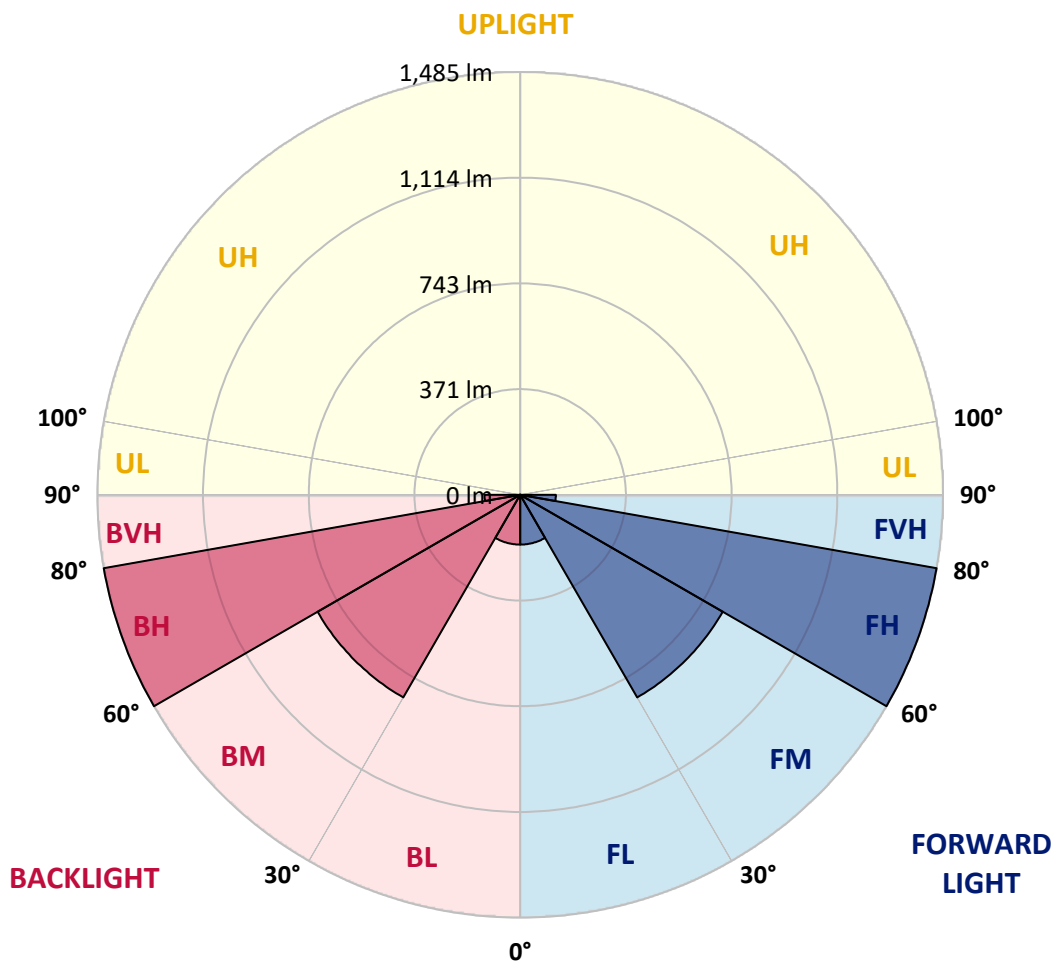
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	174.8	3.4			
FM (30°-60°)	821.9	15.8			
FH (60°-80°)	1485.5	28.5			G1/1800
FVH (80°-90°)	125.3	2.4			G2/225
BL (0°-30°)	174.8	3.4	B1/500		
BM (30°-60°)	821.9	15.8	B1/1000		
BH (60°-80°)	1485.5	28.5	B3/2500		G1/1800
BVH (80°-90°)	125.3	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°	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5
2.5°	428.9	428.9	428.9	428.2	426.9	426.2	424.9	425.6	425.6	425.6	425.6
5°	423.6	423.6	422.9	422.2	420.9	420.2	418.9	420.2	420.2	420.2	420.2
7.5°	413.6	414.2	414.2	413.6	411.6	410.9	408.9	409.6	409.6	410.2	409.6
10°	408.2	408.2	407.6	404.2	400.9	399.6	398.9	400.9	402.9	404.9	404.9
12.5°	408.2	408.2	406.9	401.6	396.9	396.9	396.9	399.6	403.6	407.6	408.2
15°	410.2	410.2	407.6	401.6	398.9	399.6	399.6	402.2	406.9	412.2	412.9
17.5°	411.6	411.6	408.2	402.2	402.2	404.2	402.9	404.9	409.6	415.6	416.2
20°	413.6	413.6	408.9	404.2	404.2	406.2	406.2	408.2	412.2	418.2	418.9
22.5°	417.6	416.9	412.2	408.2	408.2	409.6	410.9	413.6	416.9	422.2	423.6
25°	422.2	422.2	418.2	417.6	418.9	422.2	421.6	420.9	422.2	426.9	428.9
27.5°	424.9	424.9	422.2	424.2	429.5	432.2	428.9	426.2	426.2	430.9	431.5
30°	433.5	432.9	430.2	431.5	436.2	437.5	435.5	432.2	434.2	439.5	440.2
32.5°	448.2	448.2	444.2	444.2	447.5	452.9	446.2	444.2	446.9	452.9	453.5
35°	470.8	470.8	465.5	462.8	465.5	472.8	462.8	462.2	466.8	473.5	474.2
37.5°	499.5	499.5	496.1	489.5	490.2	494.8	486.2	485.5	494.1	501.5	501.5
40°	535.4	537.4	534.1	526.1	523.5	524.1	517.5	518.1	528.1	536.8	536.8
42.5°	580.1	581.4	576.1	570.1	566.7	564.7	558.1	559.4	571.4	582.7	582.7
45°	634.0	634.7	629.3	622.0	618.0	616.7	610.0	613.4	626.7	638.7	638.0
47.5°	694.6	695.3	689.9	682.6	680.0	682.0	675.3	675.3	687.3	697.3	695.9
50°	763.2	764.5	758.5	755.2	753.2	758.5	750.5	743.2	751.2	761.2	759.9
52.5°	839.1	842.4	838.5	839.8	847.1	853.8	840.5	824.5	828.5	835.1	833.1
55°	931.0	935.0	936.4	941.0	960.3	971.6	949.7	923.0	921.0	921.7	918.4
57.5°	1034.2	1036.9	1045.6	1056.2	1096.2	1114.2	1079.5	1033.6	1018.9	1010.3	1008.3
60°	1138.1	1142.8	1164.1	1186.1	1247.4	1280.0	1226.7	1149.5	1118.2	1102.2	1098.8
62.5°	1242.7	1252.0	1286.6	1323.9	1413.2	1461.8	1379.9	1268.0	1222.7	1202.7	1197.4
65°	1363.9	1375.2	1417.2	1464.5	1563.7	1632.3	1533.1	1390.5	1341.9	1315.3	1308.6
67.5°	1505.8	1517.7	1551.7	1604.3	1698.2	1765.5	1677.6	1515.7	1452.5	1418.5	1413.2
70°	1622.3	1633.0	1669.6	1722.9	1792.8	1869.4	1785.5	1615.6	1558.4	1534.4	1531.1
72.5°	1604.3	1618.3	1672.2	1752.2	1852.1	1938.6	1832.7	1635.0	1552.4	1519.1	1508.4
75°	1401.2	1416.5	1480.4	1625.0	1807.4	1936.6	1764.1	1506.4	1409.2	1381.2	1375.9
77.5°	927.7	942.3	1050.2	1278.0	1578.3	1764.8	1557.0	1262.0	1105.5	1038.2	1034.2
80°	374.9	393.6	496.8	738.6	1118.8	1371.9	1154.8	807.8	544.8	439.5	418.2
82.5°	87.2	103.9	151.2	272.4	572.7	854.4	622.7	301.7	175.1	124.5	111.9
85°	36.6	37.3	64.6	88.6	179.1	345.0	203.8	109.9	89.2	65.3	63.9
87.5°	14.0	14.7	31.3	37.3	57.3	65.3	69.3	56.6	52.6	32.6	31.3
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)