

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: P348698

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348698  
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-PA1-40-727-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 740mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4750 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

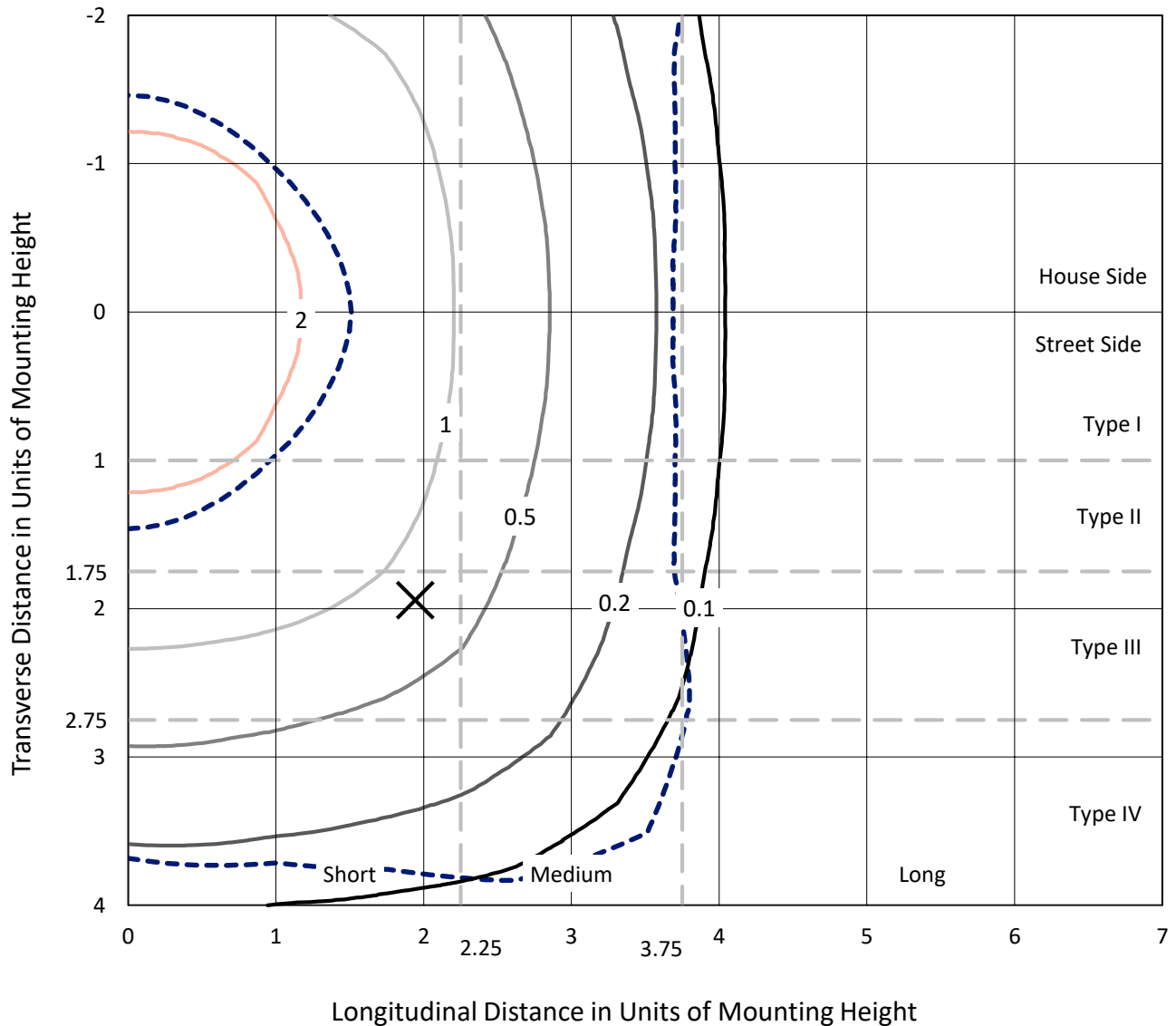
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

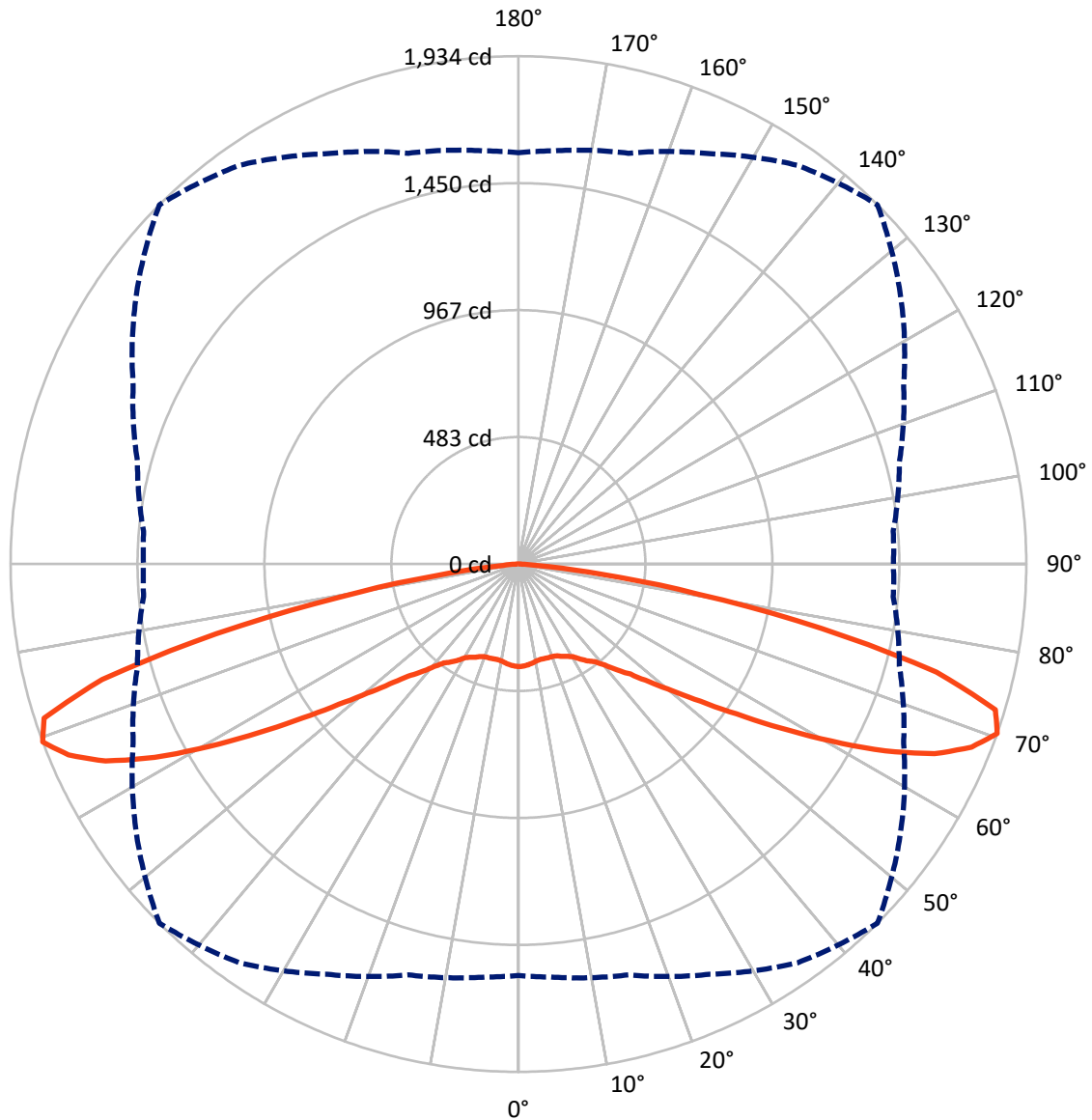
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 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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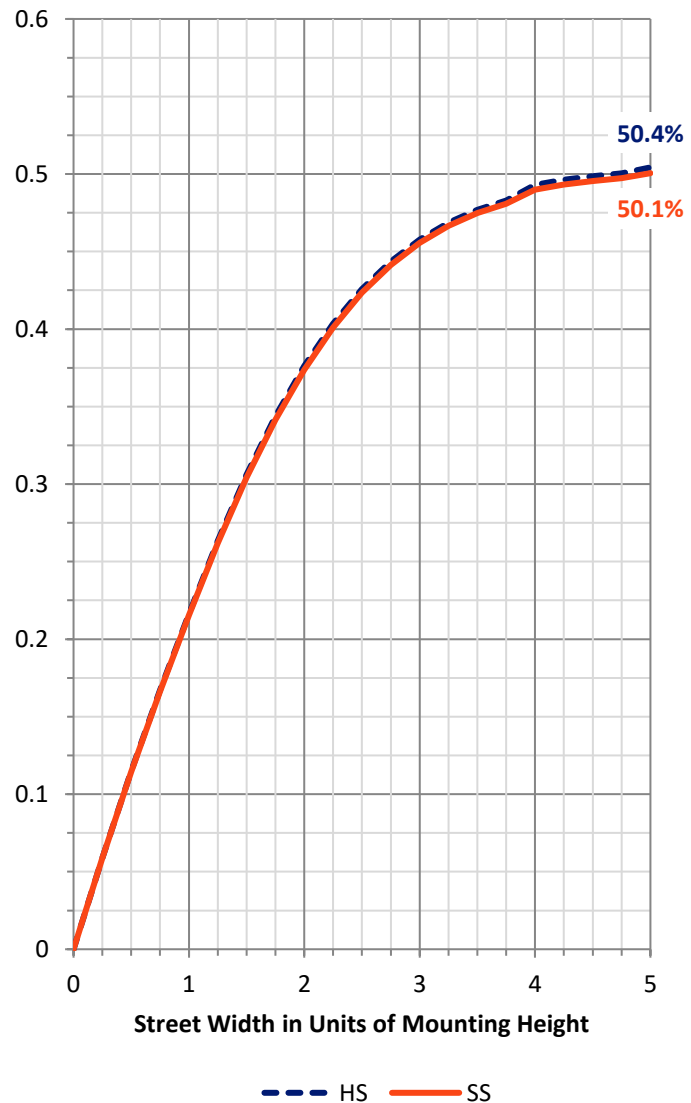
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2375.0	0.0	2375.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2375.0	0.0	2375.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4750.0	0.0	4750.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.5	0.8
10°-20°	106.6	2.2
20°-30°	181.7	3.8
30°-40°	283.9	6.0
40°-50°	481.2	10.1
50°-60°	877.5	18.5
60°-70°	1510.7	31.8
70°-80°	1184.1	24.9
80°-90°	87.8	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°	4750.0	100.0
0°-180°	4750.0	100.0



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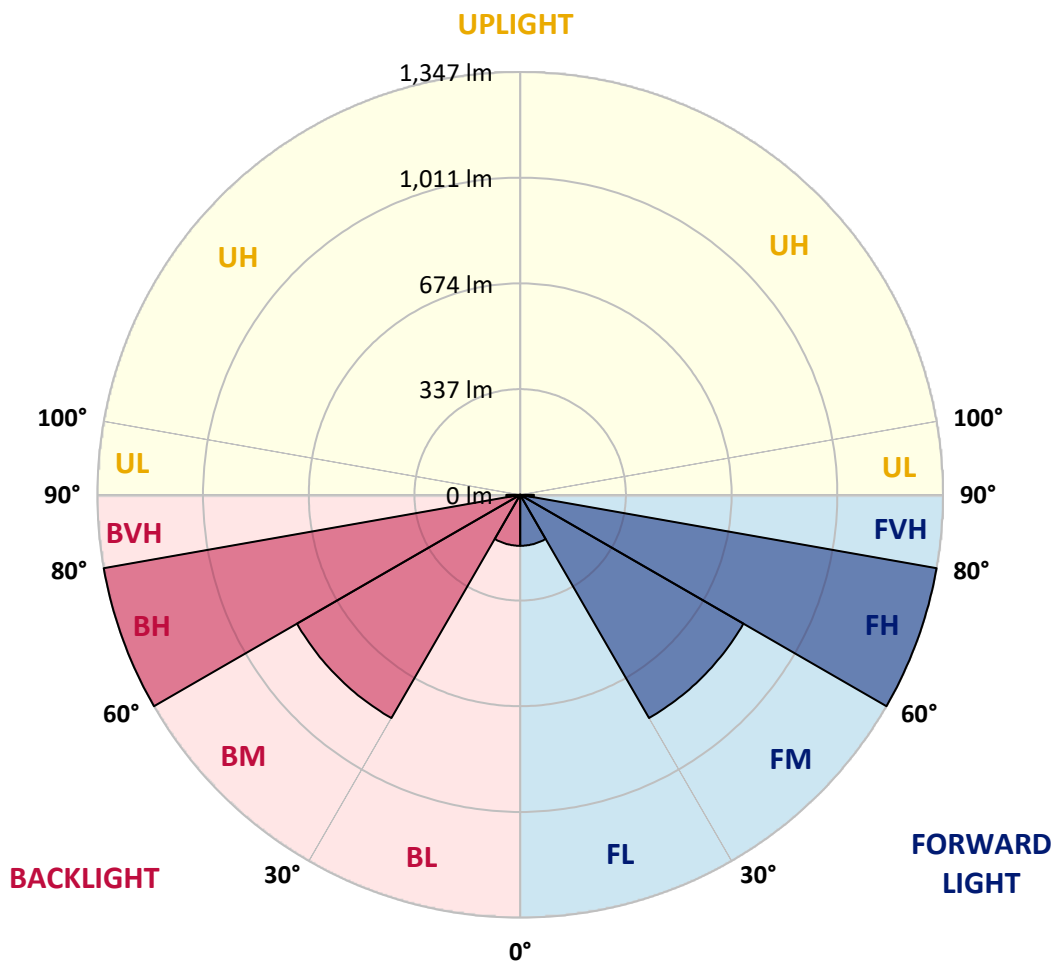
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	162.4	3.4			
FM (30°-60°)	821.3	17.3			
FH (60°-80°)	1347.4	28.4			G1/1800
FVH (80°-90°)	43.9	0.9			G1/100
BL (0°-30°)	162.4	3.4	B1/500		
BM (30°-60°)	821.3	17.3	B1/1000		
BH (60°-80°)	1347.4	28.4	B3/2500		G1/1800
BVH (80°-90°)	43.9	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9
2.5°	389.2	389.7	389.2	389.5	388.7	389.0	389.0	389.0	388.9	389.0	388.7
5°	385.7	386.1	385.4	385.7	385.3	385.7	385.9	385.7	385.4	385.6	385.0
7.5°	380.6	380.9	380.4	380.9	380.2	381.0	380.9	380.4	379.9	379.9	379.3
10°	377.7	377.9	376.6	376.2	374.7	375.1	375.5	376.0	376.5	377.4	377.3
12.5°	377.9	377.9	376.0	374.0	371.9	372.4	373.2	374.9	376.8	378.5	378.7
15°	379.5	379.3	376.5	373.2	371.8	373.2	373.6	374.7	377.7	380.7	380.9
17.5°	380.6	380.6	376.2	372.4	372.2	374.4	374.3	374.7	378.0	382.4	382.6
20°	382.6	382.6	376.9	372.9	372.9	375.2	375.4	376.2	379.5	384.3	385.1
22.5°	387.2	387.3	381.3	378.0	378.4	379.8	380.2	381.5	384.5	389.8	390.8
25°	393.6	393.9	387.8	385.9	387.0	389.7	389.4	390.3	393.6	398.8	399.7
27.5°	402.6	401.8	396.1	395.3	396.4	398.3	398.2	398.3	401.0	405.7	406.8
30°	414.2	413.9	409.8	410.3	409.8	409.2	409.3	410.6	412.0	415.8	416.9
32.5°	425.5	425.8	423.3	425.7	429.1	431.5	427.8	424.4	422.8	424.9	425.8
35°	445.9	446.7	442.8	441.2	445.9	452.8	442.6	437.0	440.1	442.8	443.6
37.5°	480.6	481.1	474.5	468.2	464.8	471.4	461.2	461.6	472.6	477.7	477.5
40°	520.2	520.4	516.0	510.5	504.5	506.1	502.0	503.3	510.5	515.1	516.3
42.5°	567.4	566.9	560.0	552.1	550.4	552.0	545.1	544.1	552.4	560.6	560.8
45°	628.5	627.4	618.4	609.8	601.5	598.0	596.3	600.8	612.3	619.9	620.0
47.5°	694.3	691.3	686.6	679.7	672.5	669.0	666.2	668.4	676.7	679.7	680.0
50°	762.1	762.7	763.6	761.0	758.3	757.2	749.8	745.6	748.1	742.6	741.8
52.5°	842.3	843.6	852.7	860.4	865.0	867.3	853.3	838.7	830.6	819.9	816.7
55°	937.1	939.1	952.5	973.9	995.9	1007.5	982.2	954.8	929.5	909.6	903.2
57.5°	1042.7	1046.3	1064.7	1105.7	1150.8	1178.3	1135.5	1085.9	1037.0	1008.3	1003.2
60°	1166.5	1169.9	1195.4	1254.2	1327.2	1368.6	1303.8	1222.6	1161.8	1134.3	1125.0
62.5°	1313.9	1314.2	1345.5	1414.1	1510.6	1568.1	1480.4	1371.9	1309.2	1276.0	1267.1
65°	1472.4	1473.2	1505.6	1579.7	1679.5	1742.0	1643.1	1529.9	1453.2	1404.4	1397.5
67.5°	1584.4	1587.7	1621.8	1711.1	1804.4	1860.8	1758.4	1630.5	1541.9	1483.6	1477.8
70°	1566.5	1579.4	1619.5	1723.7	1853.4	1933.9	1777.1	1618.5	1501.6	1432.8	1427.9
72.5°	1366.2	1390.9	1444.3	1581.0	1788.5	1899.3	1675.1	1449.6	1317.3	1258.7	1249.9
75°	930.3	970.4	1051.0	1248.2	1528.0	1644.5	1410.2	1155.8	1031.4	950.3	944.3
77.5°	414.8	423.9	526.1	753.1	1054.5	1180.9	1024.6	756.1	567.5	452.7	428.5
80°	115.6	117.1	156.2	280.5	527.8	693.9	566.6	294.6	165.6	116.7	110.0
82.5°	36.8	39.9	48.7	72.7	177.4	316.6	182.1	78.6	55.9	44.6	40.2
85°	17.9	17.8	24.7	29.5	45.3	70.1	48.2	36.5	31.9	21.2	19.2
87.5°	7.5	7.7	11.5	10.4	13.2	11.3	15.6	16.3	17.1	9.4	8.2
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)