

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: P397760

Luminaire Tested: **ARCH-S-PA1-40-730-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397760  
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-PA1-40-730-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 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: 5678 lumens  
Efficiency: N/A  
Efficacy: 142.0 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

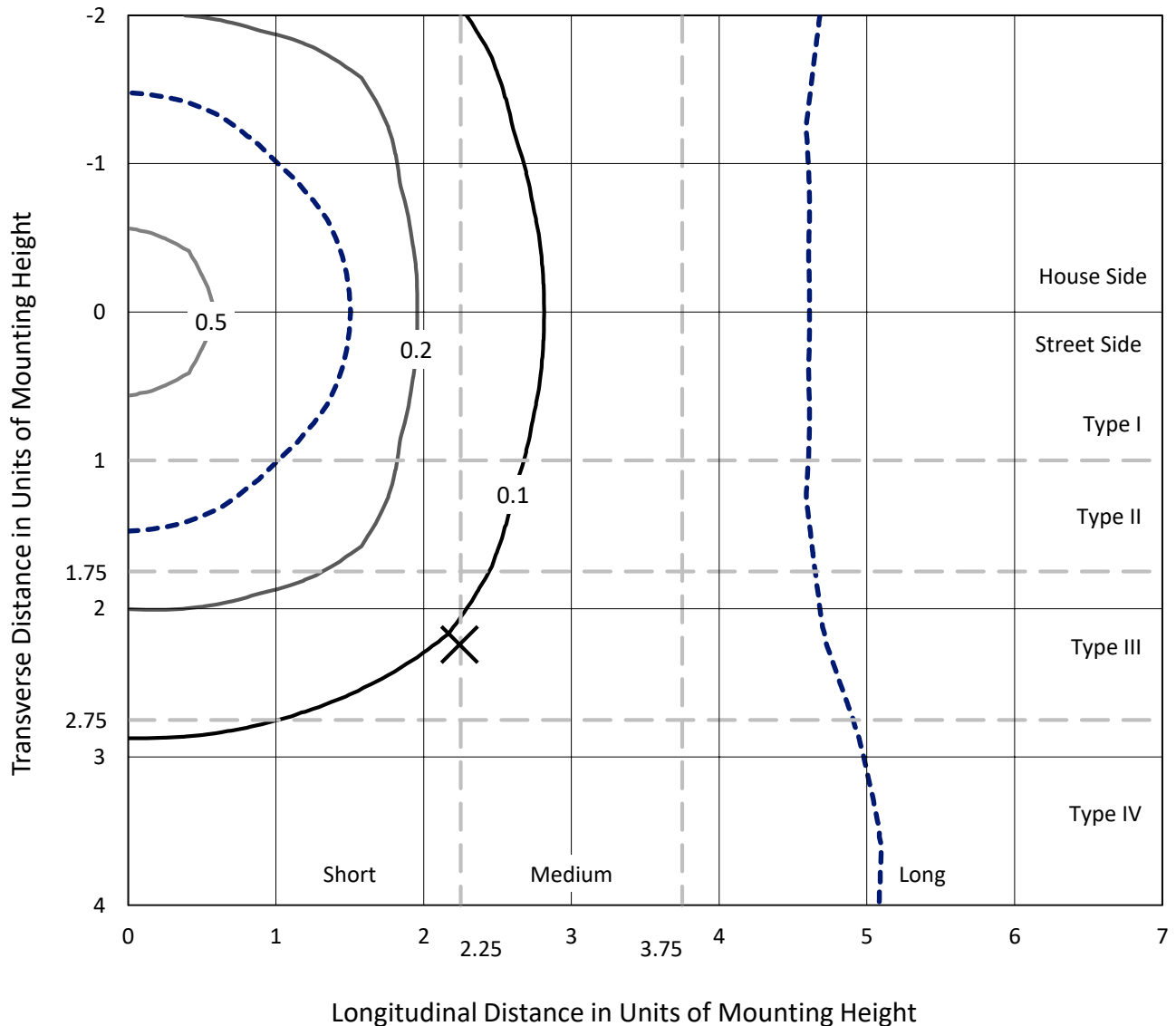


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

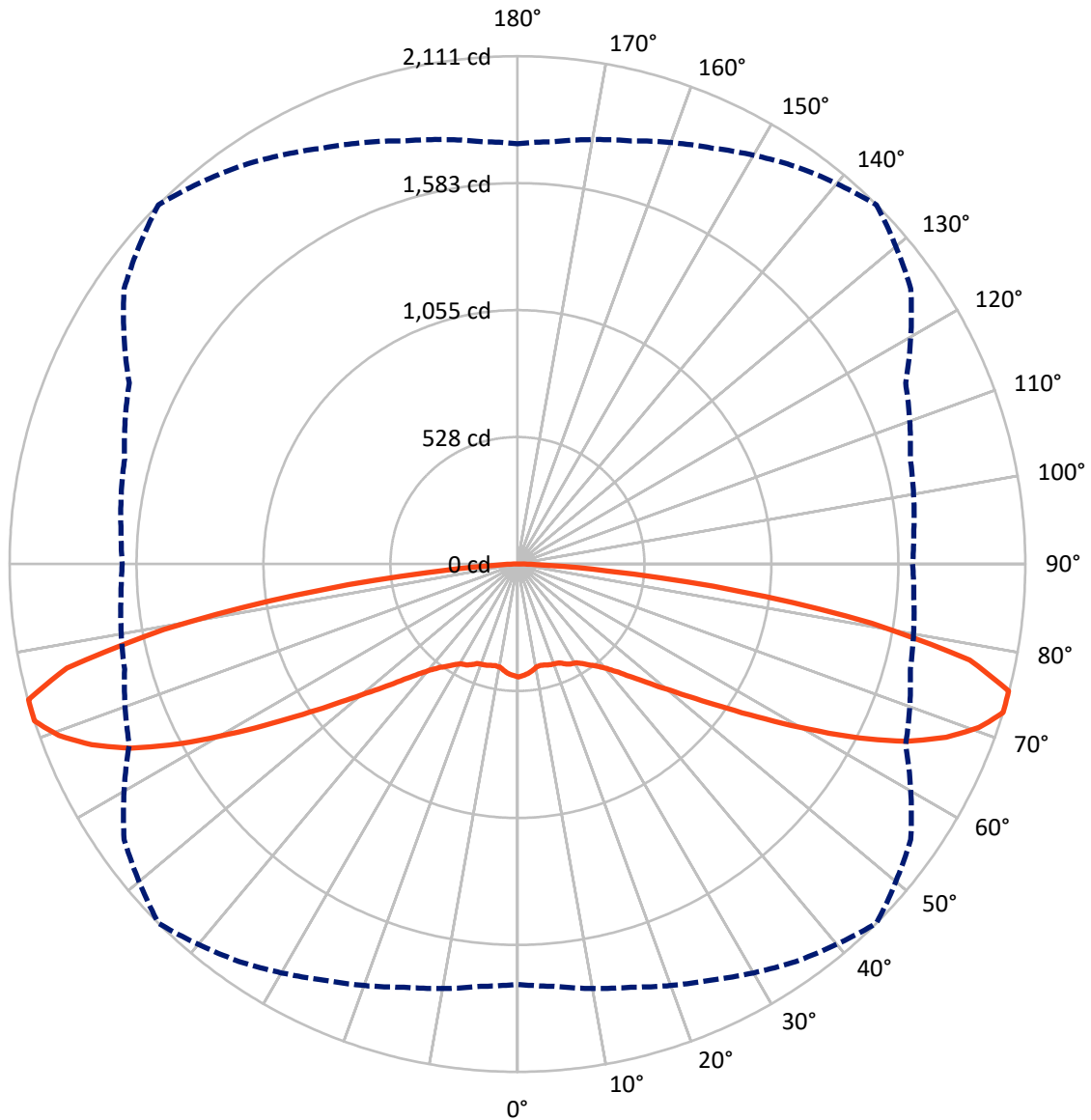


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type V - Short - Non-Cutoff

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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	2839.0	0.0	2839.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2839.0	0.0	2839.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5678.0	0.0	5678.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.1	0.8
10°-20°	125.1	2.2
20°-30°	212.5	3.7
30°-40°	324.1	5.7
40°-50°	533.7	9.4
50°-60°	932.0	16.4
60°-70°	1562.5	27.5
70°-80°	1672.2	29.5
80°-90°	272.7	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°	5678.0	100.0
0°-180°	5678.0	100.0



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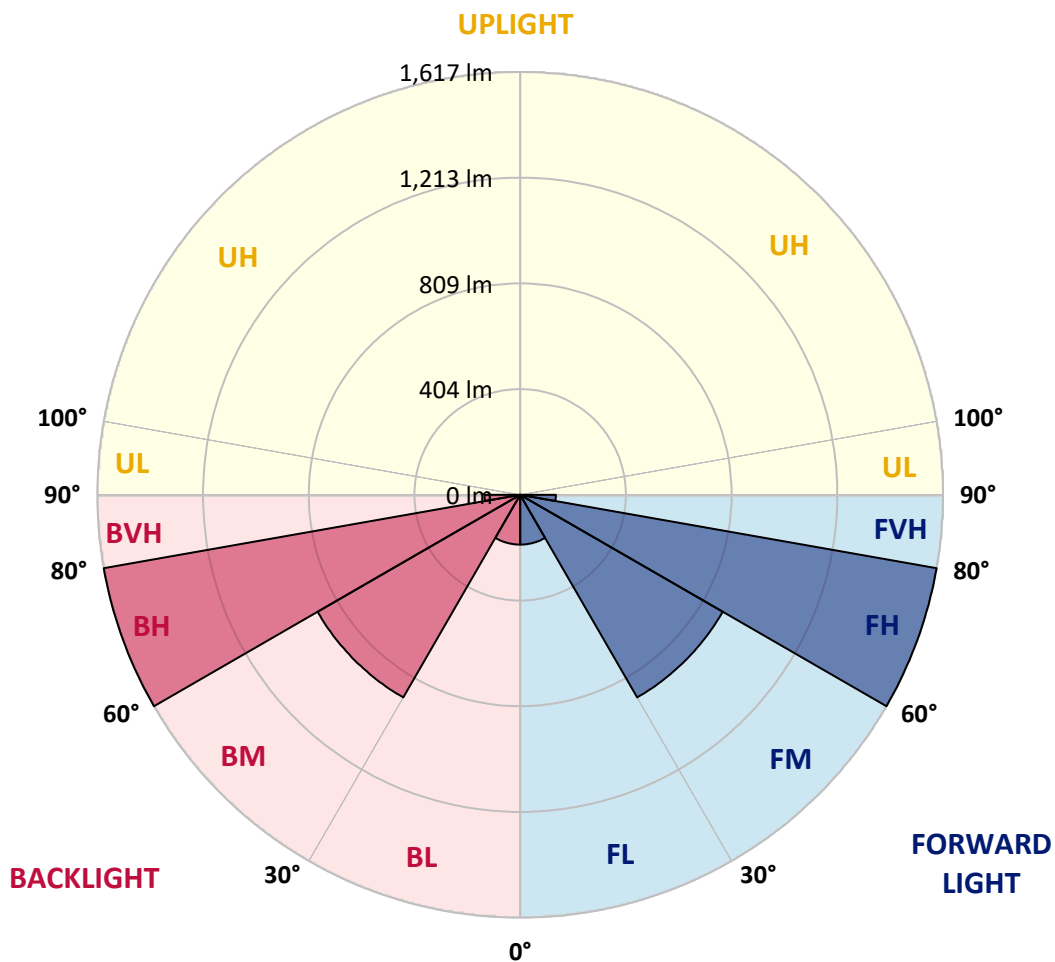
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	190.3	3.4			
FM	(30°-60°)	894.9	15.8			
FH	(60°-80°)	1617.4	28.5			G1/1800
FVH	(80°-90°)	136.4	2.4			G2/225
BL	(0°-30°)	190.3	3.4	B1/500		
BM	(30°-60°)	894.9	15.8	B1/1000		
BH	(60°-80°)	1617.4	28.5	B3/2500		G1/1800
BVH	(80°-90°)	136.4	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°	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9
2.5°	467.0	467.0	467.0	466.2	464.8	464.1	462.6	463.3	463.3	463.3	463.3
5°	461.2	461.2	460.4	459.7	458.3	457.5	456.1	457.5	457.5	457.5	457.5
7.5°	450.3	451.0	451.0	450.3	448.1	447.4	445.2	445.9	445.9	446.7	445.9
10°	444.5	444.5	443.8	440.1	436.5	435.1	434.3	436.5	438.7	440.9	440.9
12.5°	444.5	444.5	443.0	437.2	432.2	432.2	432.2	435.1	439.4	443.8	444.5
15°	446.7	446.7	443.8	437.2	434.3	435.1	435.1	438.0	443.0	448.8	449.6
17.5°	448.1	448.1	444.5	438.0	438.0	440.1	438.7	440.9	445.9	452.5	453.2
20°	450.3	450.3	445.2	440.1	440.1	442.3	442.3	444.5	448.8	455.4	456.1
22.5°	454.6	453.9	448.8	444.5	444.5	445.9	447.4	450.3	453.9	459.7	461.2
25°	459.7	459.7	455.4	454.6	456.1	459.7	459.0	458.3	459.7	464.8	467.0
27.5°	462.6	462.6	459.7	461.9	467.7	470.6	467.0	464.1	464.1	469.1	469.9
30°	472.0	471.3	468.4	469.9	474.9	476.4	474.2	470.6	472.8	478.6	479.3
32.5°	488.0	488.0	483.6	483.6	487.3	493.1	485.8	483.6	486.5	493.1	493.8
35°	512.6	512.6	506.8	503.9	506.8	514.8	503.9	503.2	508.3	515.5	516.3
37.5°	543.8	543.8	540.2	532.9	533.7	538.7	529.3	528.6	538.0	546.0	546.0
40°	583.0	585.2	581.5	572.8	569.9	570.6	563.4	564.1	575.0	584.4	584.4
42.5°	631.6	633.0	627.2	620.7	617.1	614.9	607.6	609.1	622.1	634.5	634.5
45°	690.3	691.0	685.2	677.2	672.9	671.4	664.2	667.8	682.3	695.4	694.6
47.5°	756.3	757.0	751.2	743.2	740.3	742.5	735.2	735.2	748.3	759.2	757.7
50°	831.0	832.4	825.9	822.3	820.1	825.9	817.2	809.2	817.9	828.8	827.3
52.5°	913.6	917.2	912.9	914.3	922.3	929.6	915.1	897.7	902.0	909.3	907.1
55°	1013.7	1018.0	1019.5	1024.6	1045.6	1057.9	1034.0	1005.0	1002.8	1003.5	999.9
57.5°	1126.1	1129.0	1138.4	1150.0	1193.5	1213.1	1175.4	1125.3	1109.4	1100.0	1097.8
60°	1239.2	1244.3	1267.5	1291.4	1358.1	1393.6	1335.6	1251.5	1217.4	1200.0	1196.4
62.5°	1353.0	1363.2	1400.9	1441.5	1538.6	1591.6	1502.4	1380.6	1331.3	1309.5	1303.7
65°	1485.0	1497.3	1543.0	1594.5	1702.5	1777.2	1669.2	1514.0	1461.1	1432.1	1424.8
67.5°	1639.4	1652.5	1689.5	1746.8	1849.0	1922.2	1826.5	1650.3	1581.4	1544.4	1538.6
70°	1766.3	1777.9	1817.8	1875.8	1952.0	2035.3	1944.0	1759.1	1696.7	1670.6	1667.0
72.5°	1746.8	1762.0	1820.7	1907.7	2016.5	2110.7	1995.5	1780.1	1690.2	1653.9	1642.3
75°	1525.6	1542.3	1611.9	1769.2	1967.9	2108.6	1920.8	1640.2	1534.3	1503.8	1498.0
77.5°	1010.1	1026.0	1143.5	1391.5	1718.5	1921.5	1695.3	1374.1	1203.7	1130.4	1126.1
80°	408.2	428.5	540.9	804.1	1218.2	1493.7	1257.3	879.5	593.1	478.6	455.4
82.5°	95.0	113.1	164.6	296.6	623.6	930.3	678.0	328.5	190.7	135.6	121.8
85°	39.9	40.6	70.3	96.4	195.1	375.6	221.9	119.6	97.2	71.1	69.6
87.5°	15.2	16.0	34.1	40.6	62.4	71.1	75.4	61.6	57.3	35.5	34.1
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)