

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: P397787

Luminaire Tested: **ARCH-S-PA1-40-760-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397787  
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-PA1-40-760-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5700K, 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: 6235 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): 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

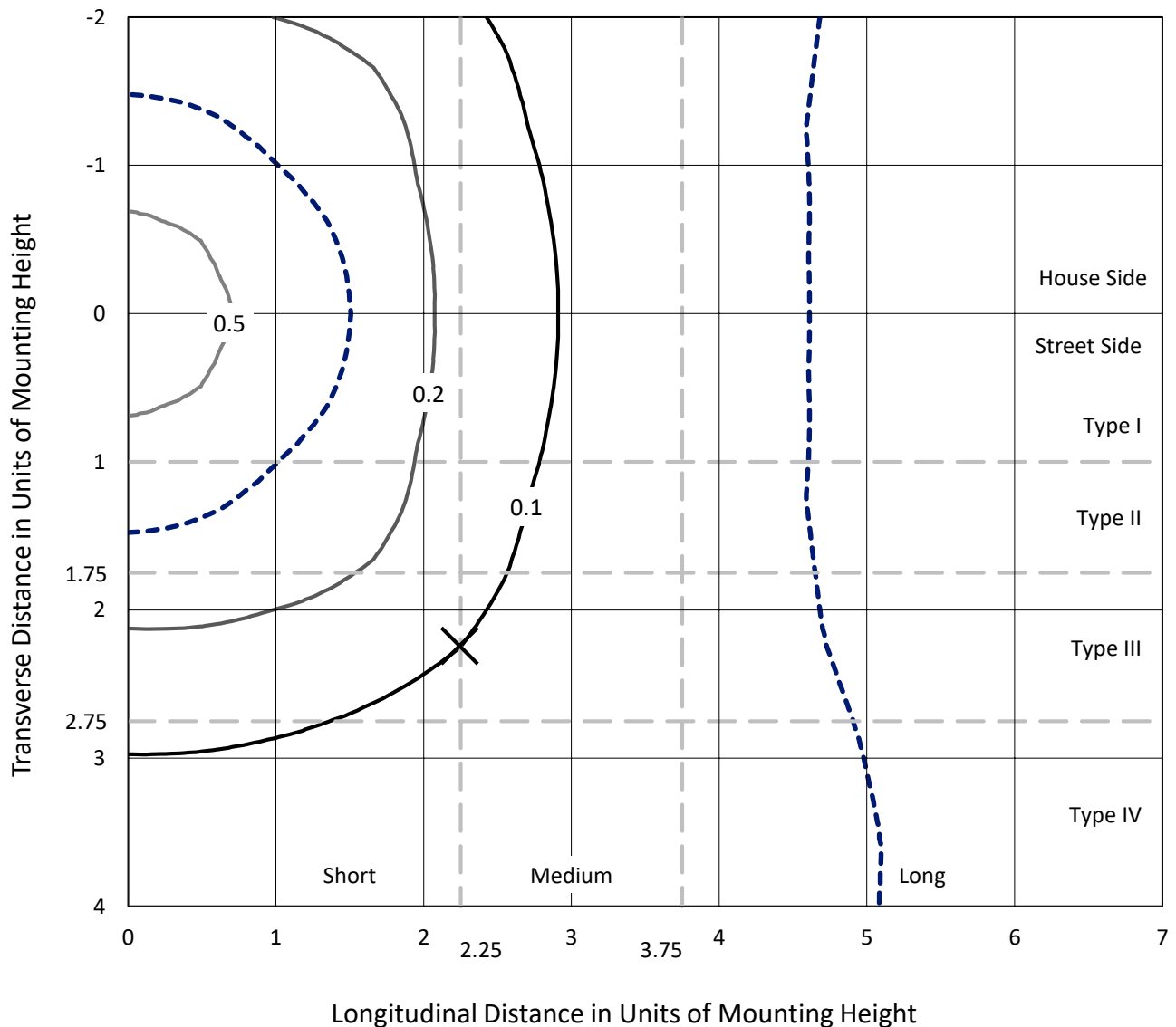


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

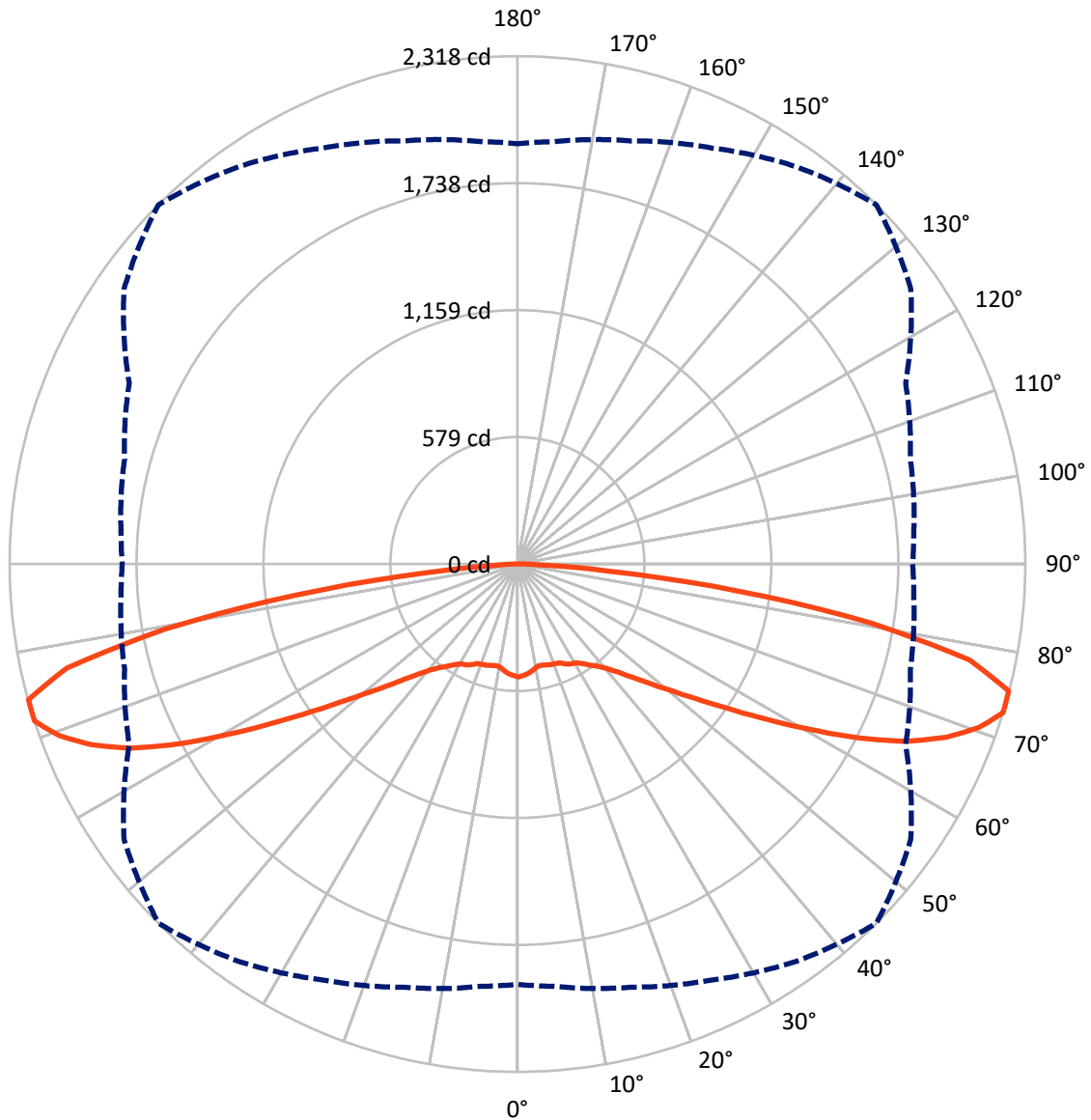


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type V - Short - Non-Cutoff

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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	3117.5	0.0	3117.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3117.5	0.0	3117.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6235.0	0.0	6235.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.3	0.8
10°-20°	137.3	2.2
20°-30°	233.3	3.7
30°-40°	355.9	5.7
40°-50°	586.1	9.4
50°-60°	1023.4	16.4
60°-70°	1715.8	27.5
70°-80°	1836.3	29.5
80°-90°	299.5	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°	6235.0	100.0
0°-180°	6235.0	100.0

**Coefficient of Utilization**



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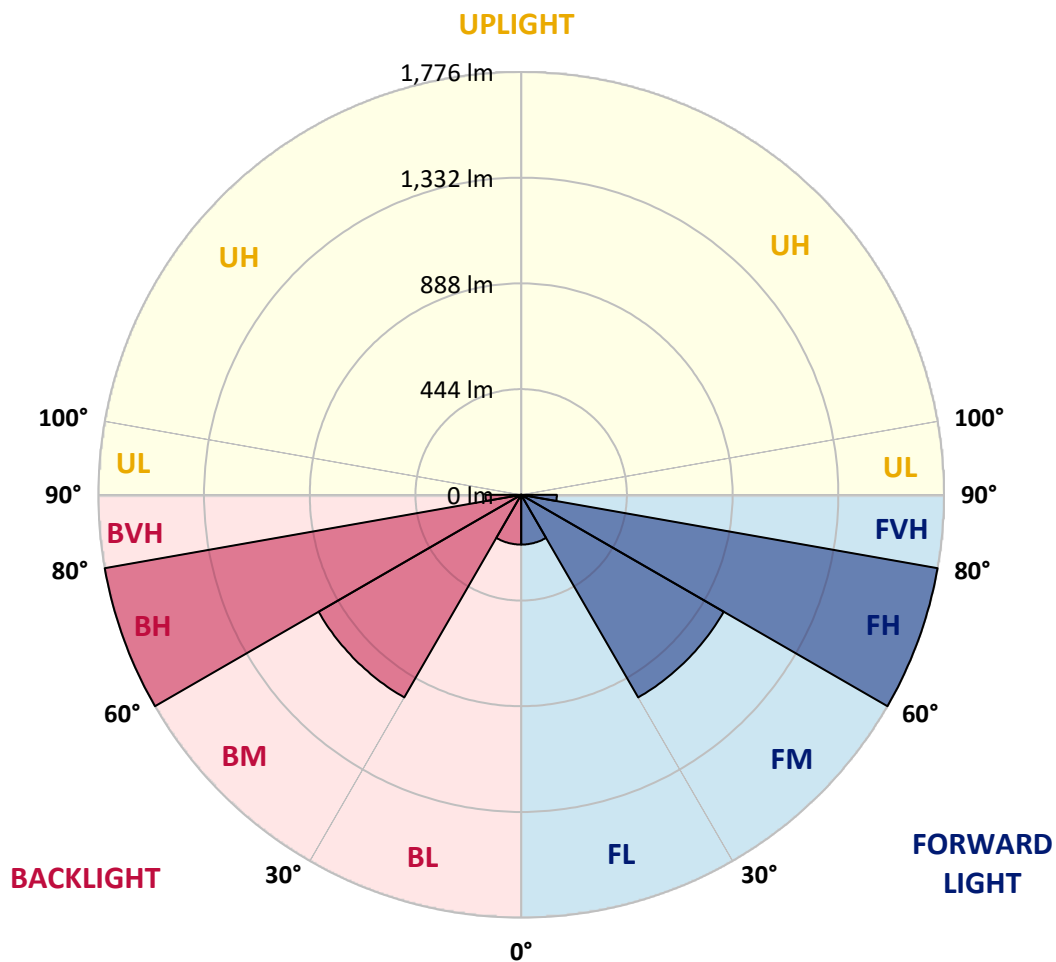
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	209.0	3.4			
FM (30°-60°)	982.7	15.8			
FH (60°-80°)	1776.0	28.5			G1/1800
FVH (80°-90°)	149.7	2.4			G2/225
BL (0°-30°)	209.0	3.4	B1/500		
BM (30°-60°)	982.7	15.8	B1/1000		
BH (60°-80°)	1776.0	28.5	B3/2500		G1/1800
BVH (80°-90°)	149.7	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°	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0
2.5°	512.8	512.8	512.8	512.0	510.4	509.6	508.0	508.8	508.8	508.8	508.8
5°	506.4	506.4	505.6	504.8	503.2	502.4	500.8	502.4	502.4	502.4	502.4
7.5°	494.5	495.3	495.3	494.5	492.1	491.3	488.9	489.7	489.7	490.5	489.7
10°	488.1	488.1	487.3	483.3	479.3	477.7	476.9	479.3	481.7	484.1	484.1
12.5°	488.1	488.1	486.5	480.1	474.5	474.5	474.5	477.7	482.5	487.3	488.1
15°	490.5	490.5	487.3	480.1	476.9	477.7	477.7	480.9	486.5	492.9	493.7
17.5°	492.1	492.1	488.1	480.9	480.9	483.3	481.7	484.1	489.7	496.8	497.6
20°	494.5	494.5	488.9	483.3	483.3	485.7	485.7	488.1	492.9	500.0	500.8
22.5°	499.2	498.4	492.9	488.1	488.1	489.7	491.3	494.5	498.4	504.8	506.4
25°	504.8	504.8	500.0	499.2	500.8	504.8	504.0	503.2	504.8	510.4	512.8
27.5°	508.0	508.0	504.8	507.2	513.6	516.7	512.8	509.6	509.6	515.2	516.0
30°	518.3	517.5	514.4	516.0	521.5	523.1	520.7	516.7	519.1	525.5	526.3
32.5°	535.9	535.9	531.1	531.1	535.1	541.4	533.5	531.1	534.3	541.4	542.2
35°	562.9	562.9	556.6	553.4	556.6	565.3	553.4	552.6	558.2	566.1	566.9
37.5°	597.2	597.2	593.2	585.2	586.0	591.6	581.2	580.4	590.8	599.6	599.6
40°	640.2	642.6	638.6	629.0	625.8	626.6	618.7	619.5	631.4	641.8	641.8
42.5°	693.5	695.1	688.7	681.6	677.6	675.2	667.2	668.8	683.2	696.7	696.7
45°	758.0	758.8	752.4	743.7	738.9	737.3	729.3	733.3	749.2	763.6	762.8
47.5°	830.5	831.3	824.9	816.1	812.9	815.3	807.4	807.4	821.7	833.6	832.1
50°	912.5	914.1	906.9	902.9	900.5	906.9	897.3	888.6	898.1	910.1	908.5
52.5°	1003.2	1007.2	1002.4	1004.0	1012.8	1020.8	1004.8	985.7	990.5	998.5	996.1
55°	1113.1	1117.9	1119.5	1125.1	1148.2	1161.7	1135.4	1103.6	1101.2	1102.0	1098.0
57.5°	1236.5	1239.7	1250.1	1262.8	1310.6	1332.1	1290.7	1235.7	1218.2	1207.9	1205.5
60°	1360.7	1366.3	1391.8	1418.1	1491.3	1530.3	1466.6	1374.3	1336.9	1317.8	1313.8
62.5°	1485.8	1496.9	1538.3	1582.9	1689.6	1747.7	1649.8	1516.0	1461.9	1438.0	1431.6
65°	1630.7	1644.2	1694.4	1750.9	1869.5	1951.5	1832.9	1662.5	1604.4	1572.5	1564.6
67.5°	1800.3	1814.6	1855.2	1918.1	2030.4	2110.8	2005.7	1812.2	1736.6	1696.0	1689.6
70°	1939.6	1952.3	1996.1	2059.8	2143.4	2235.0	2134.7	1931.6	1863.2	1834.5	1830.5
72.5°	1918.1	1934.8	1999.3	2094.9	2214.3	2317.8	2191.2	1954.7	1856.0	1816.2	1803.4
75°	1675.3	1693.6	1770.0	1942.8	2161.0	2315.4	2109.2	1801.1	1684.8	1651.4	1645.0
77.5°	1109.1	1126.7	1255.6	1528.0	1887.1	2110.0	1861.6	1508.8	1321.7	1241.3	1236.5
80°	448.3	470.6	594.0	883.0	1337.7	1640.2	1380.7	965.8	651.3	525.5	500.0
82.5°	104.3	124.2	180.7	325.7	684.8	1021.6	744.5	360.7	209.4	148.9	133.8
85°	43.8	44.6	77.2	105.9	214.2	412.4	243.6	131.4	106.7	78.0	76.4
87.5°	16.7	17.5	37.4	44.6	68.5	78.0	82.8	67.7	62.9	39.0	37.4
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)