

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: P234677

Luminaire Tested: **ARCH-AF24-60-D-U-5WQ-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234677  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-AF24-60-D-U-5WQ-8027  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6036 lumens  
Efficiency: N/A  
Efficacy: 94.3 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): 64  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

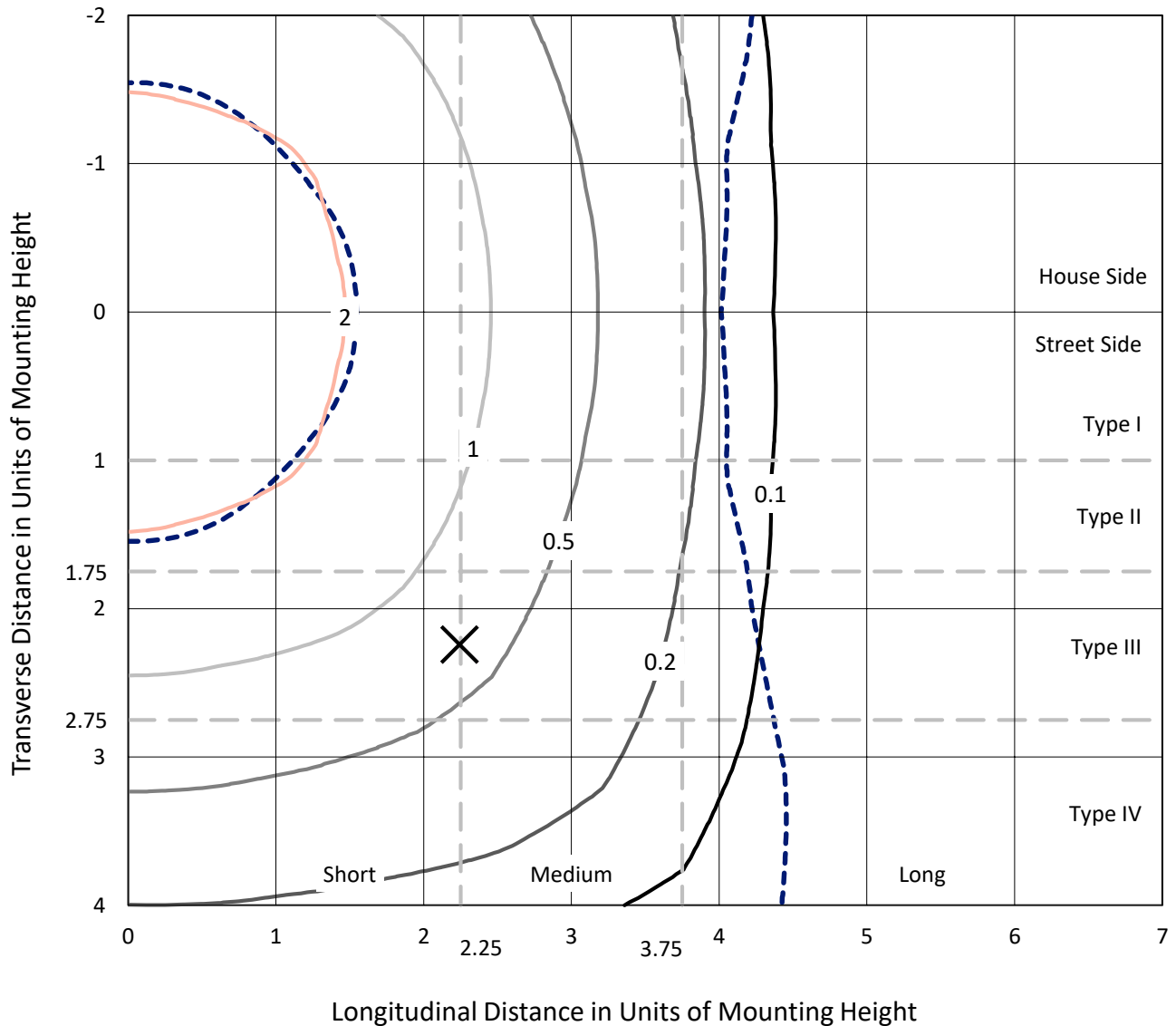


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

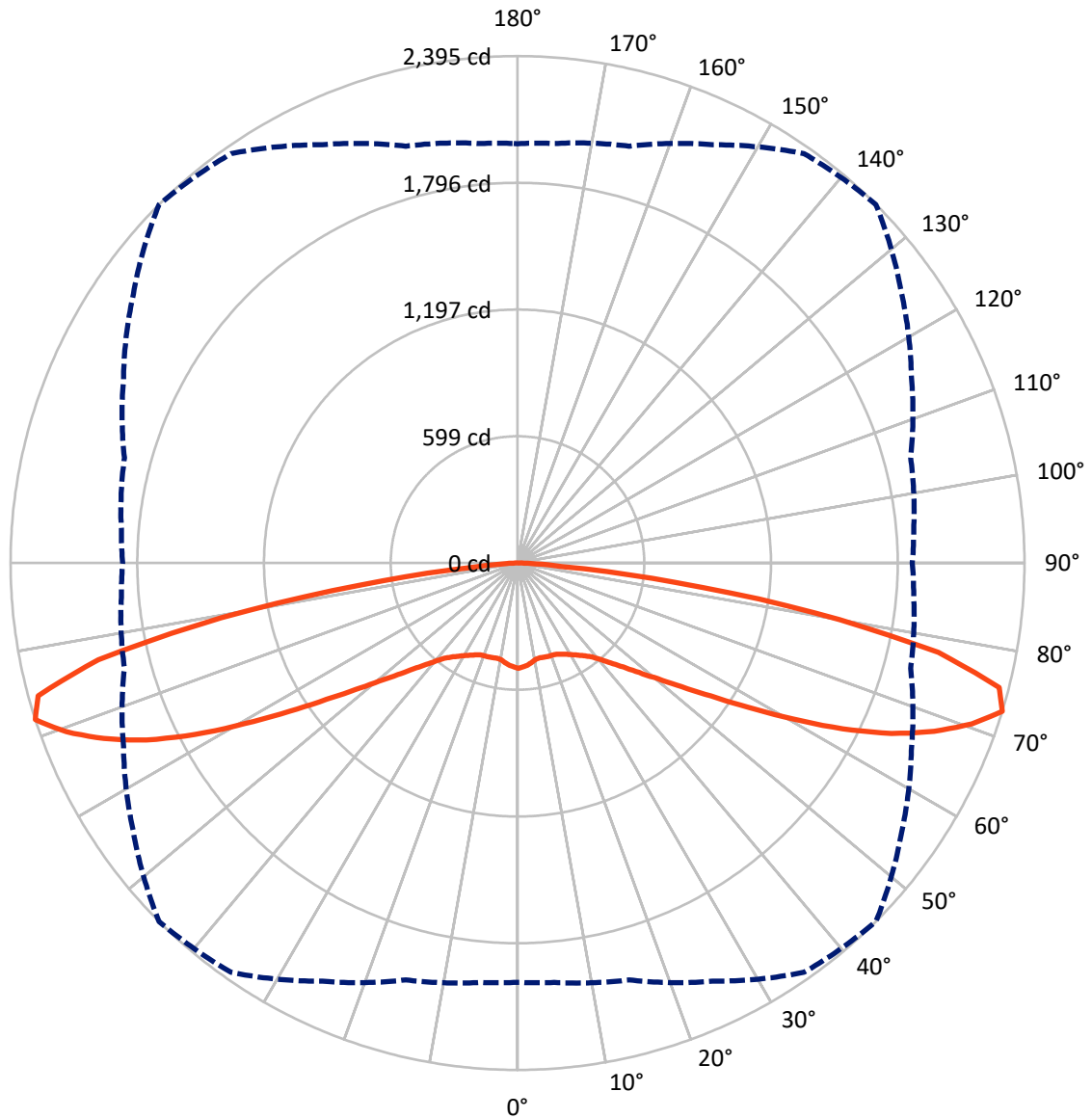


Based on 10 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - Non-Cutoff

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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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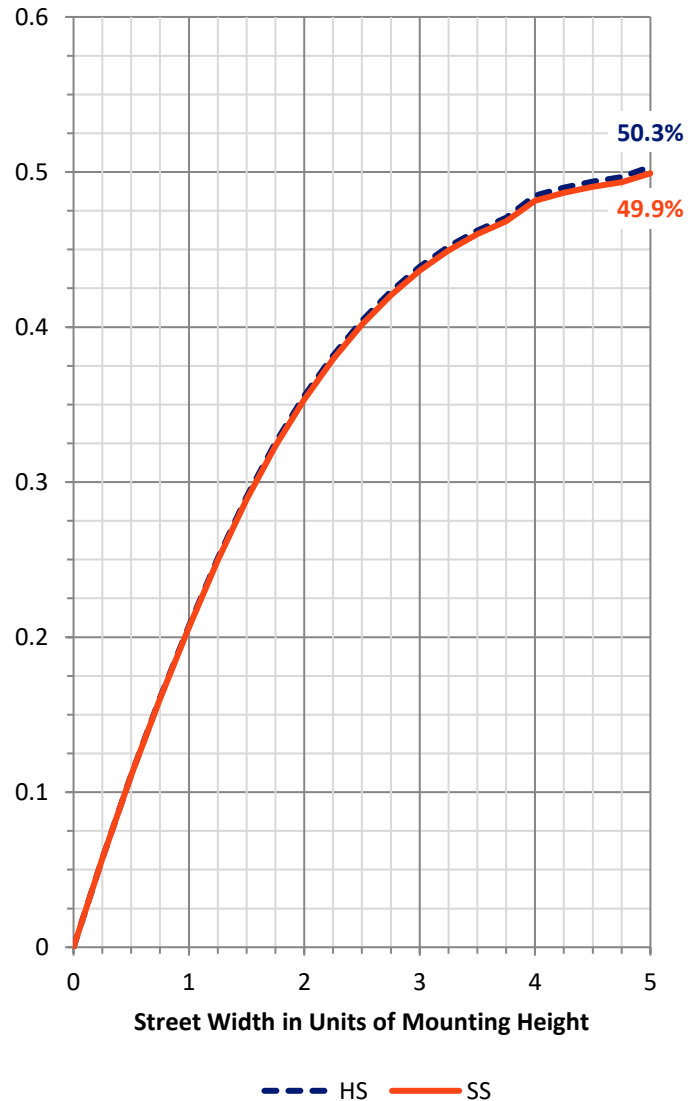
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3018.0	0.0	3018.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3018.0	0.0	3018.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6036.0	0.0	6036.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.8	0.8
10°-20°	132.1	2.2
20°-30°	221.0	3.7
30°-40°	339.6	5.6
40°-50°	562.3	9.3
50°-60°	999.7	16.6
60°-70°	1748.9	29.0
70°-80°	1779.4	29.5
80°-90°	207.2	3.4
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°	6036.0	100.0
0°-180°	6036.0	100.0



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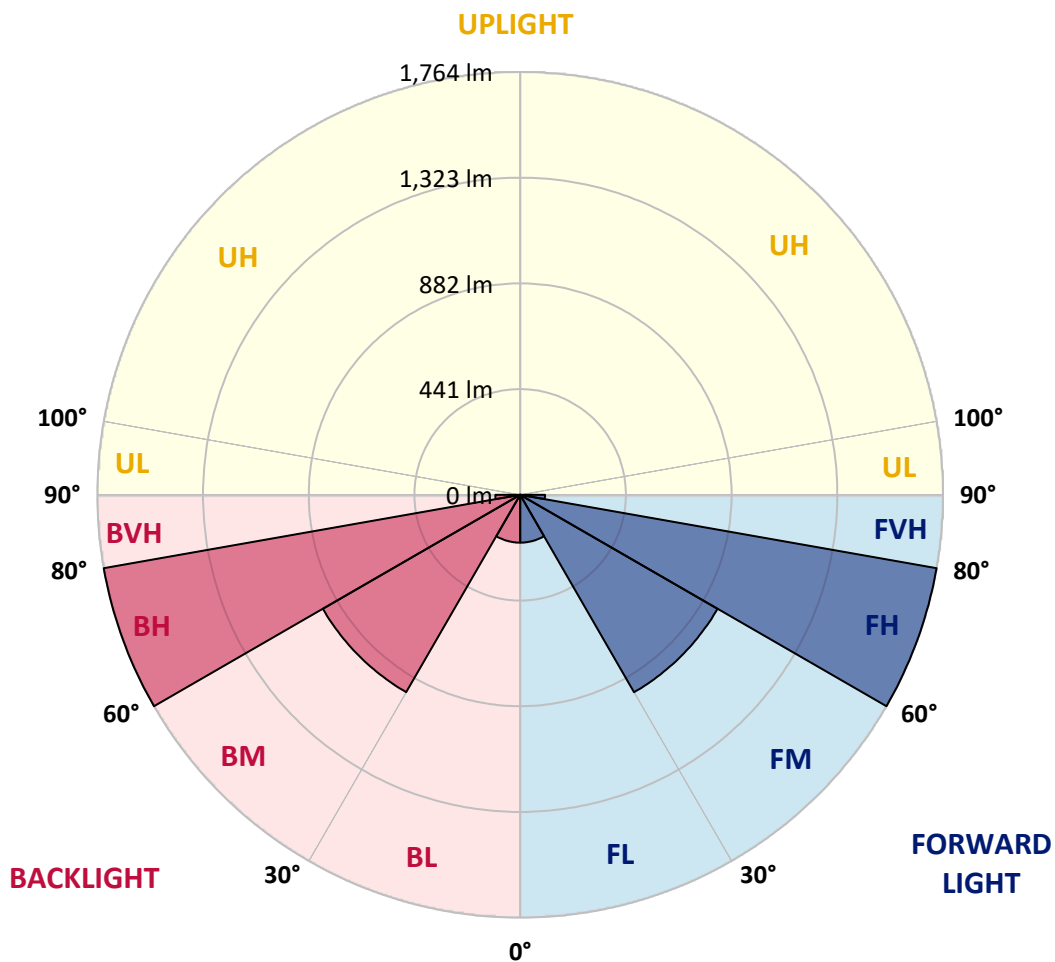
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	199.4	3.3			
FM	(30°-60°)	950.8	15.8			
FH	(60°-80°)	1764.2	29.2			G1/1800
FVH	(80°-90°)	103.6	1.7			G2/225
BL	(0°-30°)	199.4	3.3	B1/500		
BM	(30°-60°)	950.8	15.8	B1/1000		
BH	(60°-80°)	1764.2	29.2	B3/2500		G1/1800
BVH	(80°-90°)	103.6	1.7			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°	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5
2.5°	492.9	494.1	491.8	491.8	491.8	490.6	491.8	490.6	491.8	492.9	492.9
5°	488.3	488.3	486.0	486.0	486.0	484.9	486.0	486.0	487.2	488.3	488.3
7.5°	478.0	478.0	476.8	475.7	474.5	474.5	475.7	475.7	476.8	478.0	478.0
10°	472.2	471.1	468.8	465.3	464.2	463.0	465.3	467.6	471.1	474.5	473.4
12.5°	469.9	468.8	464.2	460.7	458.4	459.6	461.9	464.2	469.9	473.4	472.2
15°	472.2	469.9	464.2	458.4	459.6	461.9	464.2	464.2	471.1	474.5	474.5
17.5°	472.2	471.1	464.2	459.6	460.7	464.2	465.3	464.2	469.9	475.7	475.7
20°	473.4	473.4	464.2	460.7	461.9	465.3	466.5	465.3	469.9	476.8	476.8
22.5°	475.7	474.5	465.3	463.0	465.3	467.6	468.8	467.6	472.2	478.0	479.1
25°	480.3	478.0	469.9	468.8	473.4	476.8	476.8	474.5	476.8	482.6	482.6
27.5°	486.0	484.9	475.7	475.7	481.4	488.3	484.9	480.3	482.6	488.3	488.3
30°	496.4	495.2	486.0	486.0	494.1	502.1	494.1	488.3	491.8	497.5	498.7
32.5°	511.3	511.3	503.3	501.0	514.7	518.2	514.7	503.3	505.5	513.6	513.6
35°	536.6	534.3	526.2	525.1	538.9	537.7	536.6	526.2	528.5	537.7	537.7
37.5°	569.9	568.7	561.8	558.4	565.3	560.7	563.0	558.4	564.1	571.0	572.2
40°	612.4	611.3	605.5	600.9	603.2	596.3	598.6	600.9	606.7	611.3	612.4
42.5°	665.3	665.3	659.5	651.5	648.0	644.6	644.6	649.2	654.9	660.7	660.7
45°	730.7	730.7	723.9	715.8	705.5	699.7	702.0	706.6	713.5	720.4	722.7
47.5°	807.7	807.7	798.5	790.5	780.2	773.3	773.3	775.6	785.9	791.6	795.1
50°	893.9	890.5	881.3	873.2	867.5	858.3	859.4	858.3	867.5	875.5	877.8
52.5°	983.5	982.4	973.2	970.9	974.3	969.7	969.7	958.2	961.7	966.3	965.1
55°	1095.0	1091.5	1083.5	1088.1	1101.9	1108.8	1106.5	1088.1	1077.7	1080.0	1078.9
57.5°	1216.8	1213.3	1211.0	1224.8	1255.8	1284.6	1278.8	1236.3	1216.8	1217.9	1219.1
60°	1340.9	1340.9	1347.7	1382.2	1448.9	1496.0	1478.7	1407.5	1373.0	1366.1	1363.8
62.5°	1468.4	1471.8	1486.8	1544.2	1646.5	1724.6	1681.0	1579.8	1528.1	1514.4	1509.8
65°	1616.6	1620.1	1641.9	1713.1	1848.7	1941.8	1867.1	1771.7	1699.3	1670.6	1666.0
67.5°	1831.5	1833.8	1851.0	1919.9	2047.5	2122.2	2045.2	1960.2	1882.0	1848.7	1846.4
70°	2024.5	2026.8	2041.7	2132.5	2249.7	2276.1	2191.1	2083.1	2001.5	1975.1	1970.5
72.5°	1980.8	1988.9	2038.3	2179.6	2360.0	2394.5	2215.2	2053.2	1922.2	1878.6	1864.8
75°	1661.4	1674.1	1752.2	1964.7	2252.0	2349.7	2072.8	1775.2	1579.8	1496.0	1474.1
77.5°	969.7	1016.8	1151.3	1423.6	1833.8	2032.5	1707.4	1299.5	970.9	833.0	787.0
80°	265.4	290.7	388.4	654.9	1150.1	1423.6	1089.2	596.3	321.7	241.3	224.1
82.5°	83.9	111.5	141.3	188.4	451.5	750.3	404.4	175.8	137.9	113.7	101.1
85°	44.8	48.3	79.3	91.9	135.6	210.3	125.2	91.9	82.7	60.9	57.4
87.5°	23.0	24.1	44.8	44.8	59.7	49.4	54.0	49.4	47.1	29.9	26.4
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)