

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: P234678

Luminaire Tested: **ARCH-AF24-70-D-U-5WQ-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234678  
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-AF24-70-D-U-5WQ-8027  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6729 lumens  
Efficiency: N/A  
Efficacy: 90.9 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): 74  
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

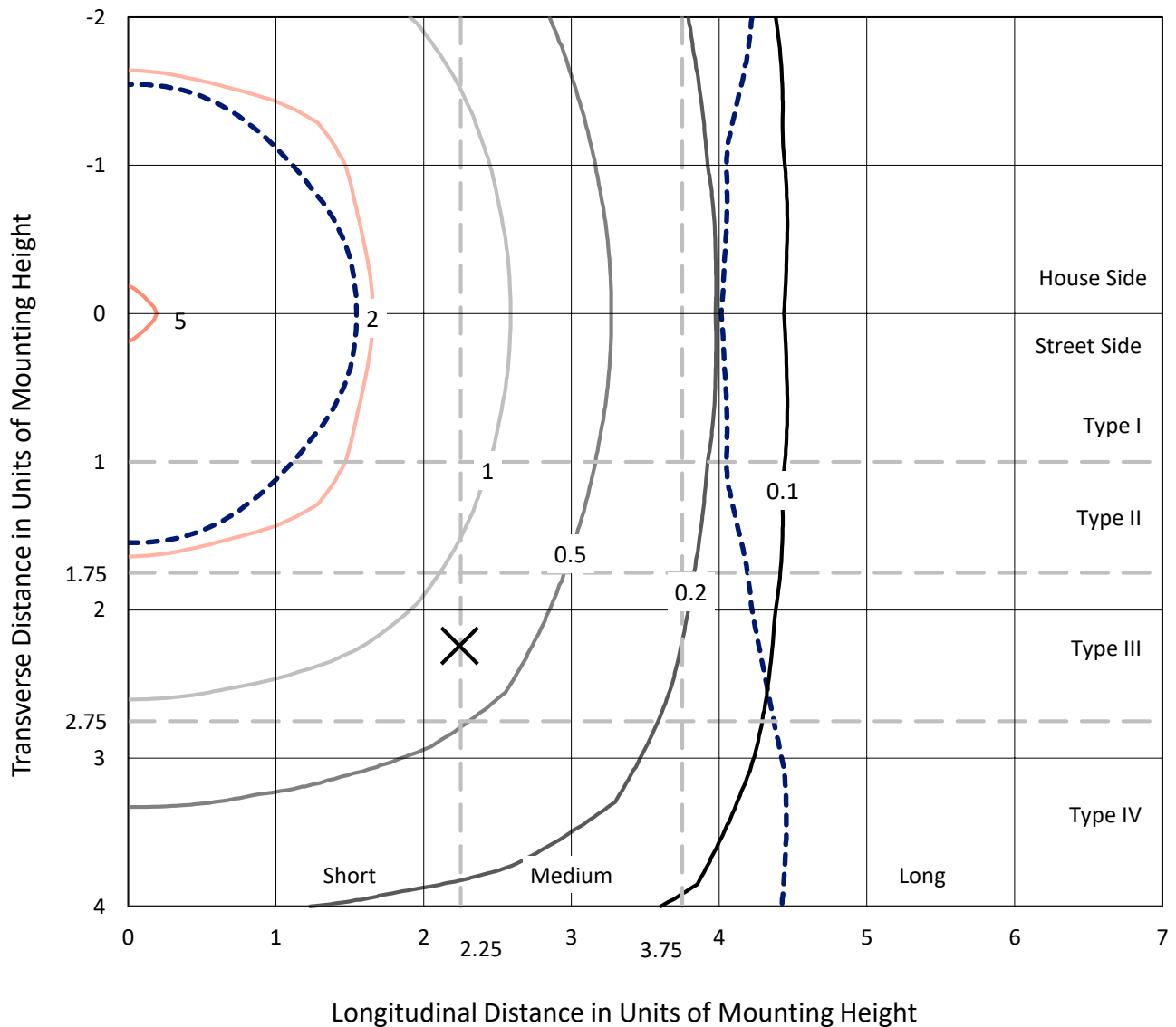


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

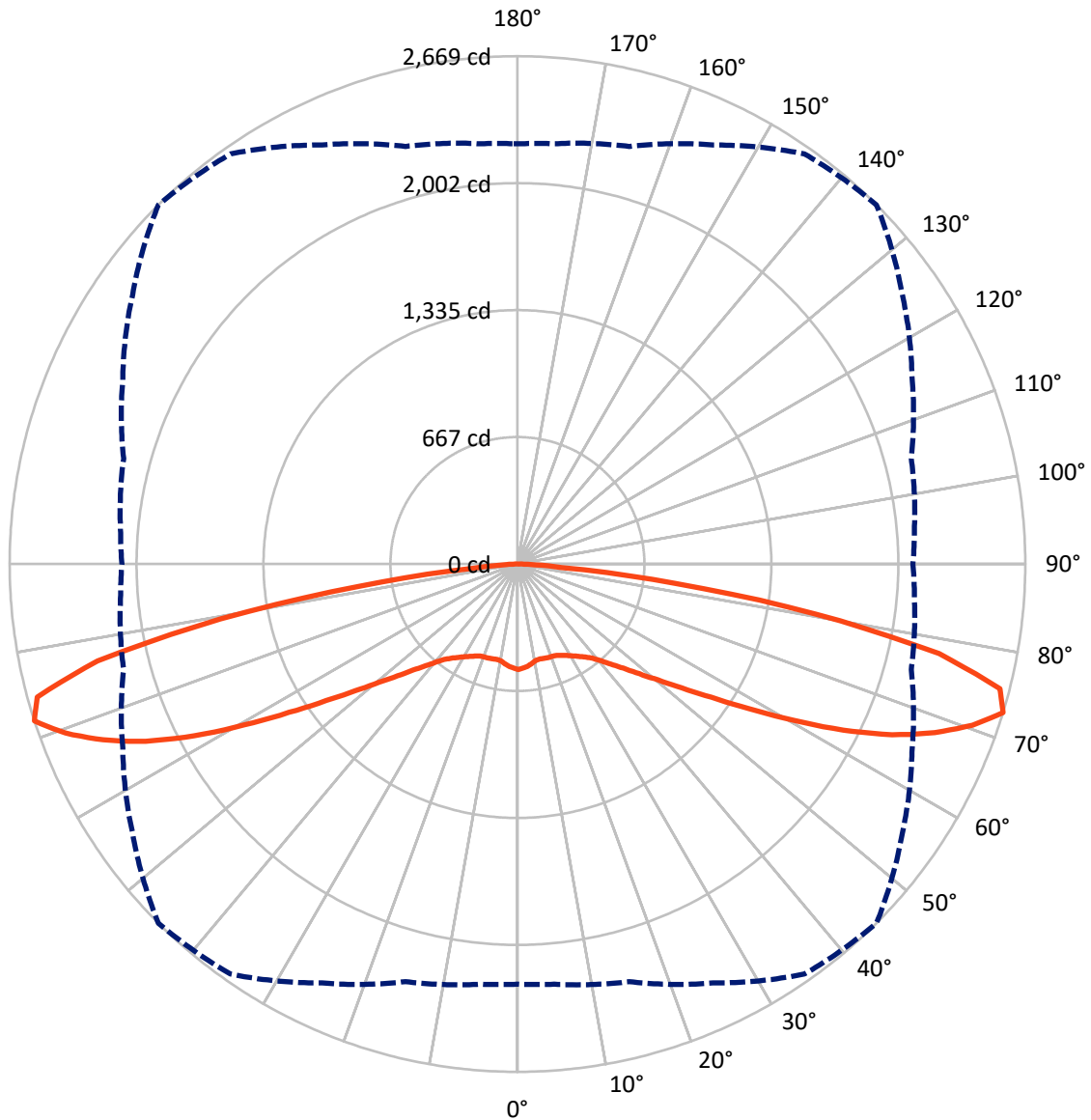


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Short - Non-Cutoff

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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	3364.5	0.0	3364.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3364.5	0.0	3364.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6729.0	0.0	6729.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.0	0.8
10°-20°	147.2	2.2
20°-30°	246.4	3.7
30°-40°	378.6	5.6
40°-50°	626.9	9.3
50°-60°	1114.5	16.6
60°-70°	1949.7	29.0
70°-80°	1983.7	29.5
80°-90°	231.0	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°	6729.0	100.0
0°-180°	6729.0	100.0



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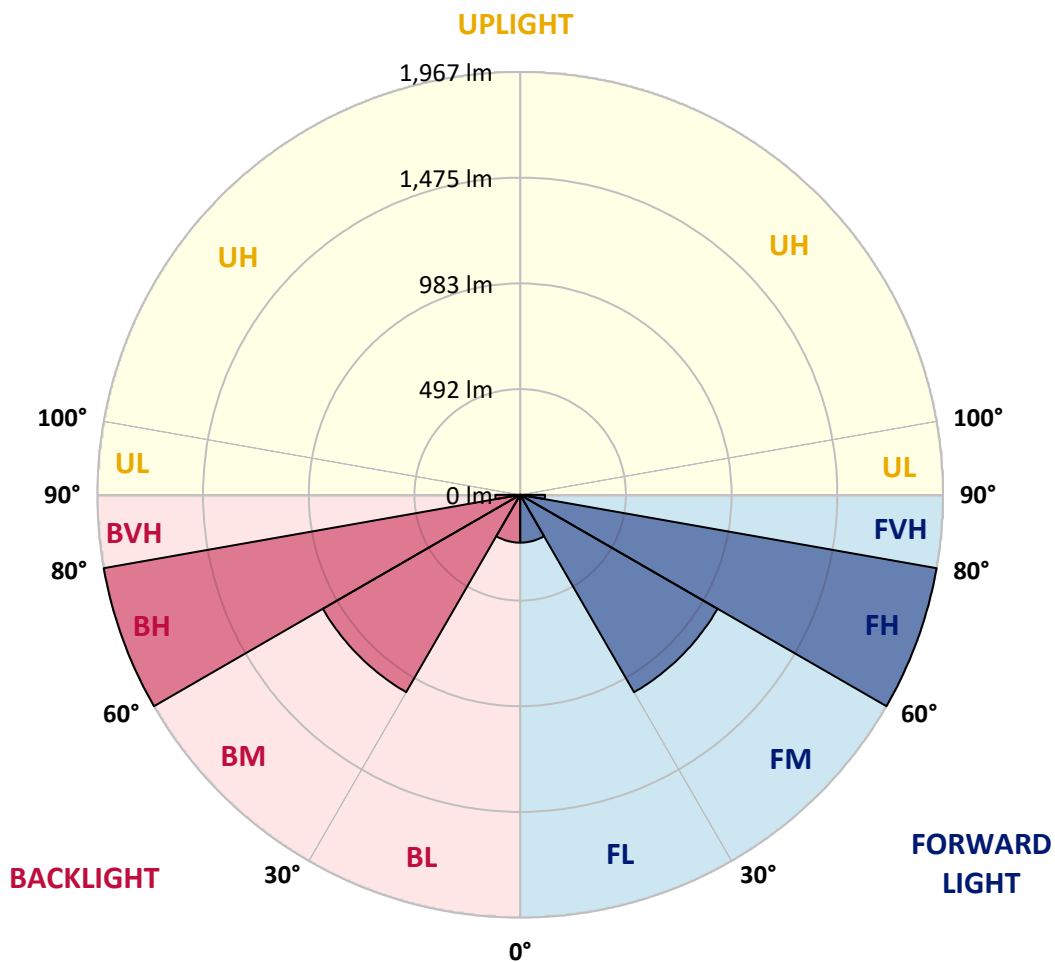
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	222.3	3.3			
FM	(30°-60°)	1060.0	15.8			
FH	(60°-80°)	1966.7	29.2			G2/5000
FVH	(80°-90°)	115.5	1.7			G2/225
BL	(0°-30°)	222.3	3.3	B1/500		
BM	(30°-60°)	1060.0	15.8	B2/2500		
BH	(60°-80°)	1966.7	29.2	B3/2500		G2/5000
BVH	(80°-90°)	115.5	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°	554.6	554.6	554.6	554.6	554.6	554.6	554.6	554.6	554.6	554.6	554.6
2.5°	549.5	550.8	548.2	548.2	548.2	546.9	548.2	546.9	548.2	549.5	549.5
5°	544.4	544.4	541.8	541.8	541.8	540.5	541.8	541.8	543.1	544.4	544.4
7.5°	532.9	532.9	531.6	530.3	529.0	529.0	530.3	530.3	531.6	532.9	532.9
10°	526.4	525.2	522.6	518.8	517.5	516.2	518.8	521.3	525.2	529.0	527.7
12.5°	523.9	522.6	517.5	513.6	511.1	512.4	514.9	517.5	523.9	527.7	526.4
15°	526.4	523.9	517.5	511.1	512.4	514.9	517.5	517.5	525.2	529.0	529.0
17.5°	526.4	525.2	517.5	512.4	513.6	517.5	518.8	517.5	523.9	530.3	530.3
20°	527.7	527.7	517.5	513.6	514.9	518.8	520.0	518.8	523.9	531.6	531.6
22.5°	530.3	529.0	518.8	516.2	518.8	521.3	522.6	521.3	526.4	532.9	534.1
25°	535.4	532.9	523.9	522.6	527.7	531.6	531.6	529.0	531.6	538.0	538.0
27.5°	541.8	540.5	530.3	530.3	536.7	544.4	540.5	535.4	538.0	544.4	544.4
30°	553.3	552.1	541.8	541.8	550.8	559.7	550.8	544.4	548.2	554.6	555.9
32.5°	570.0	570.0	561.0	558.5	573.8	577.7	573.8	561.0	563.6	572.6	572.6
35°	598.2	595.6	586.6	585.4	600.7	599.5	598.2	586.6	589.2	599.5	599.5
37.5°	635.3	634.0	626.4	622.5	630.2	625.1	627.6	622.5	628.9	636.6	637.9
40°	682.7	681.4	675.0	669.9	672.5	664.8	667.3	669.9	676.3	681.4	682.7
42.5°	741.6	741.6	735.2	726.3	722.4	718.6	718.6	723.7	730.1	736.5	736.5
45°	814.6	814.6	807.0	798.0	786.5	780.1	782.6	787.7	795.4	803.1	805.7
47.5°	900.5	900.5	890.2	881.3	869.7	862.0	862.0	864.6	876.1	882.5	886.4
50°	996.5	992.7	982.4	973.5	967.1	956.8	958.1	956.8	967.1	976.0	978.6
52.5°	1096.4	1095.2	1084.9	1082.4	1086.2	1081.1	1081.1	1068.3	1072.1	1077.2	1075.9
55°	1220.7	1216.8	1207.9	1213.0	1228.4	1236.1	1233.5	1213.0	1201.5	1204.0	1202.8
57.5°	1356.5	1352.6	1350.1	1365.4	1400.0	1432.0	1425.6	1378.2	1356.5	1357.7	1359.0
60°	1494.8	1494.8	1502.5	1540.9	1615.2	1667.7	1648.5	1569.1	1530.7	1523.0	1520.4
62.5°	1637.0	1640.8	1657.5	1721.5	1835.5	1922.6	1873.9	1761.2	1703.6	1688.2	1683.1
65°	1802.2	1806.1	1830.4	1909.8	2061.0	2164.7	2081.4	1975.1	1894.4	1862.4	1857.3
67.5°	2041.7	2044.3	2063.5	2140.4	2282.5	2365.8	2280.0	2185.2	2098.1	2061.0	2058.4
70°	2256.9	2259.5	2276.1	2377.3	2508.0	2537.4	2442.7	2322.3	2231.3	2201.9	2196.7
72.5°	2208.3	2217.2	2272.3	2429.9	2631.0	2669.4	2469.6	2289.0	2142.9	2094.3	2078.9
75°	1852.2	1866.3	1953.4	2190.3	2510.5	2619.4	2310.7	1979.0	1761.2	1667.7	1643.4
77.5°	1081.1	1133.6	1283.5	1587.0	2044.3	2265.9	1903.4	1448.7	1082.4	928.6	877.4
80°	295.9	324.1	432.9	730.1	1282.2	1587.0	1214.3	664.8	358.6	269.0	249.8
82.5°	93.5	124.2	157.5	210.1	503.4	836.4	450.9	196.0	153.7	126.8	112.7
85°	50.0	53.8	88.4	102.5	151.1	234.4	139.6	102.5	92.2	67.9	64.0
87.5°	25.6	26.9	50.0	50.0	66.6	55.1	60.2	55.1	52.5	33.3	29.5
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)