

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: P265922

Luminaire Tested: **ARCH-AF24-30-D-U-5WQ-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P265922  
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-AF24-30-D-U-5WQ-7027  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3533.4 lumens  
Efficiency: N/A  
Efficacy: 114.0 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 - G1

Input Watts (W): 31  
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

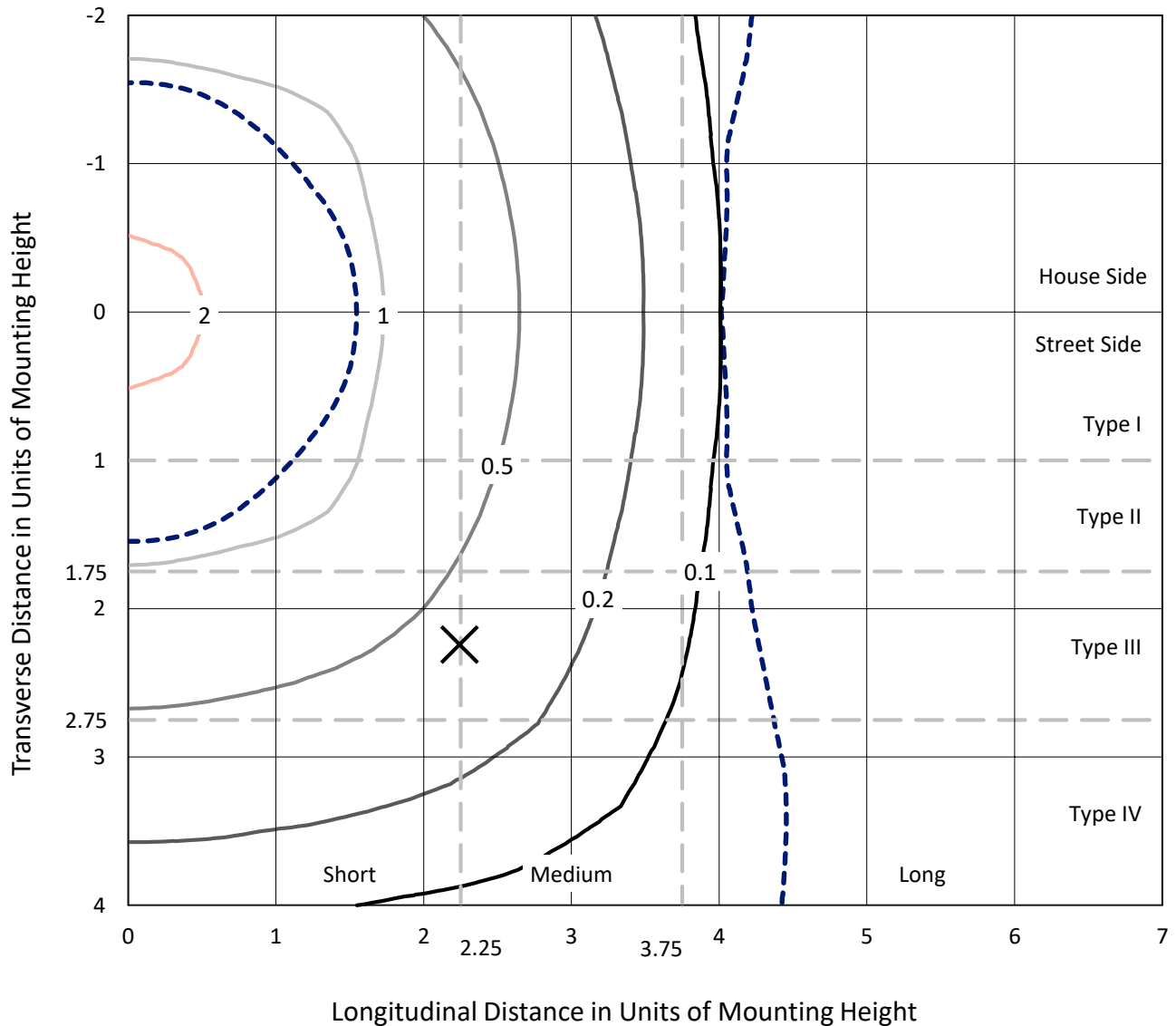


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

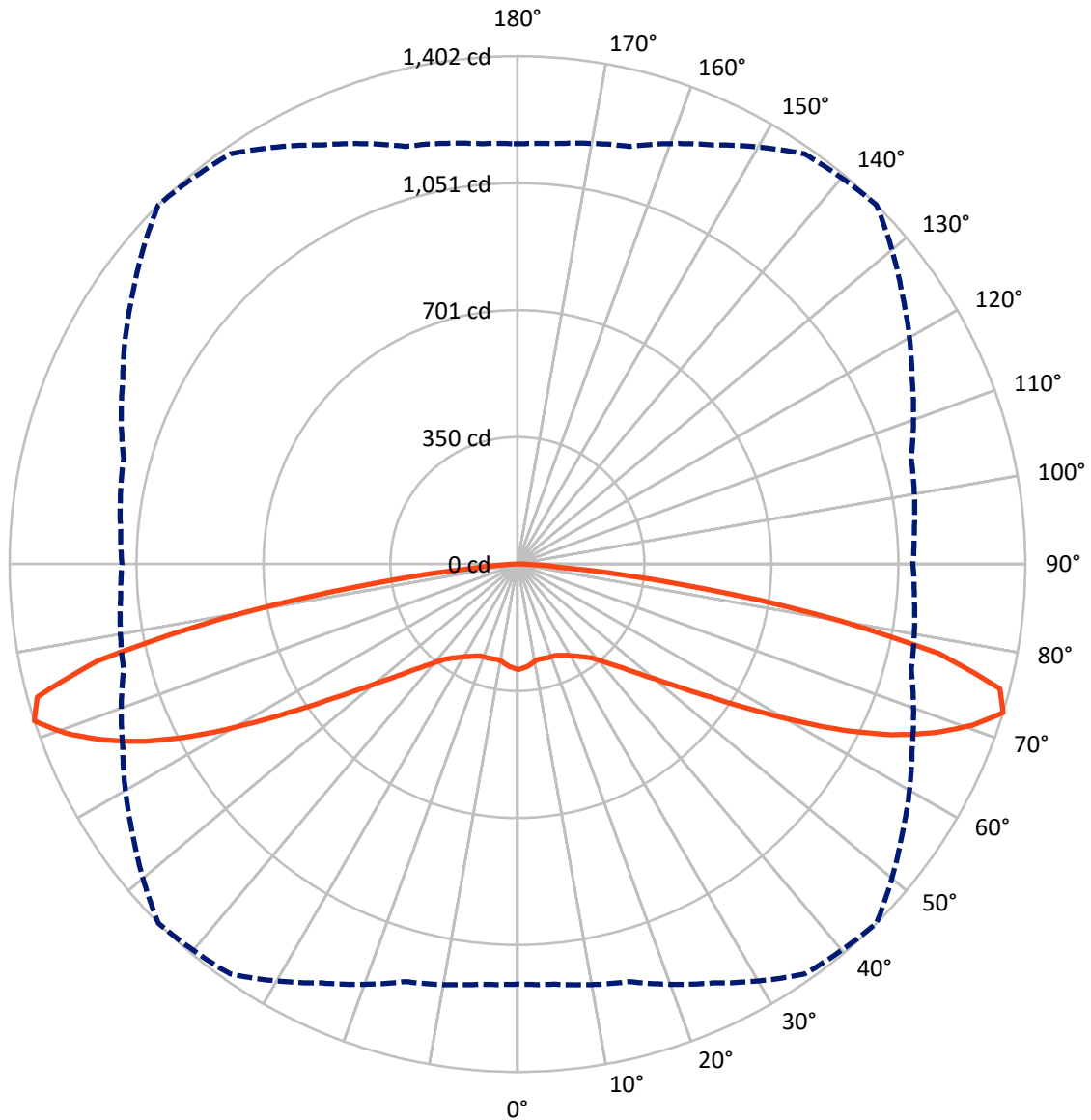


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - Non-Cutoff

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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	1766.7	0.0	1766.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1766.7	0.0	1766.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3533.4	0.0	3533.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.8	0.8
10°-20°	77.3	2.2
20°-30°	129.4	3.7
30°-40°	198.8	5.6
40°-50°	329.2	9.3
50°-60°	585.2	16.6
60°-70°	1023.8	29.0
70°-80°	1041.6	29.5
80°-90°	121.3	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°	3533.4	100.0
0°-180°	3533.4	100.0

**Coefficient of Utilization**



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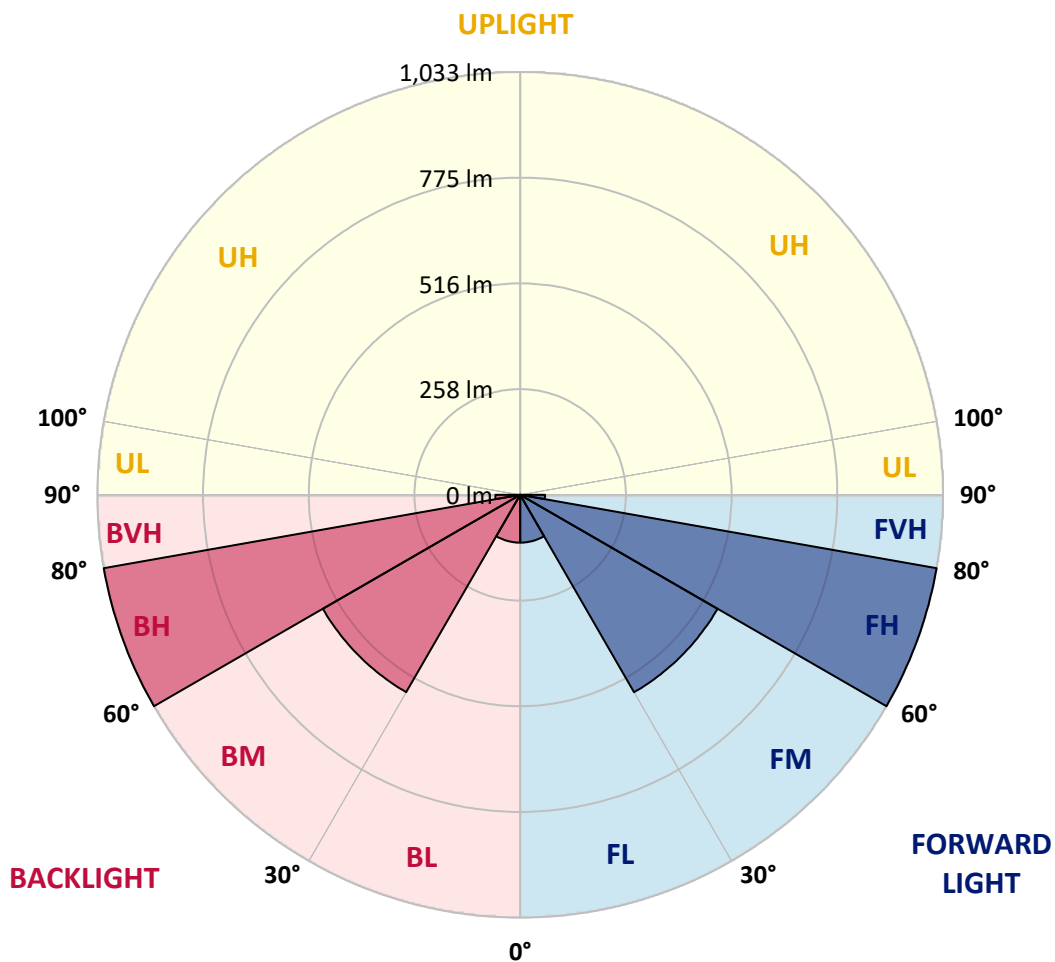
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	116.8	3.3			
FM (30°-60°)	556.6	15.8			
FH (60°-80°)	1032.7	29.2			G1/1800
FVH (80°-90°)	60.6	1.7			G1/100
BL (0°-30°)	116.8	3.3	B1/500		
BM (30°-60°)	556.6	15.8	B1/1000		
BH (60°-80°)	1032.7	29.2	B3/2500		G1/1800
BVH (80°-90°)	60.6	1.7			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°	291.2	291.2	291.2	291.2	291.2	291.2	291.2	291.2	291.2	291.2	291.2
2.5°	288.5	289.3	287.8	287.8	287.8	287.2	287.8	287.2	287.8	288.5	288.5
5°	285.8	285.8	284.6	284.6	284.6	283.9	284.6	284.6	285.2	285.8	285.8
7.5°	279.8	279.8	279.2	278.5	277.8	277.8	278.5	278.5	279.2	279.8	279.8
10°	276.4	275.8	274.4	272.4	271.7	271.1	272.4	273.8	275.8	277.8	277.0
12.5°	275.2	274.4	271.7	269.8	268.4	269.0	270.4	271.7	275.2	277.0	276.4
15°	276.4	275.2	271.7	268.4	269.0	270.4	271.7	271.7	275.8	277.8	277.8
17.5°	276.4	275.8	271.7	269.0	269.8	271.7	272.4	271.7	275.2	278.5	278.5
20°	277.0	277.0	271.7	269.8	270.4	272.4	273.1	272.4	275.2	279.2	279.2
22.5°	278.5	277.8	272.4	271.1	272.4	273.8	274.4	273.8	276.4	279.8	280.5
25°	281.1	279.8	275.2	274.4	277.0	279.2	279.2	277.8	279.2	282.4	282.4
27.5°	284.6	283.9	278.5	278.5	281.8	285.8	283.9	281.1	282.4	285.8	285.8
30°	290.5	290.0	284.6	284.6	289.3	293.9	289.3	285.8	287.8	291.2	291.9
32.5°	299.2	299.2	294.6	293.2	301.3	303.4	301.3	294.6	295.9	300.7	300.7
35°	314.0	312.8	308.1	307.4	315.5	314.8	314.0	308.1	309.3	314.8	314.8
37.5°	333.6	332.9	328.9	326.9	330.9	328.2	329.6	326.9	330.2	334.3	335.0
40°	358.6	357.9	354.4	351.7	353.2	349.1	350.3	351.7	355.1	357.9	358.6
42.5°	389.4	389.4	386.0	381.4	379.4	377.3	377.3	380.1	383.3	386.7	386.7
45°	427.8	427.8	423.7	419.0	413.0	409.5	411.0	413.6	417.7	421.8	423.0
47.5°	472.8	472.8	467.5	462.7	456.7	452.7	452.7	454.1	460.0	463.4	465.4
50°	523.3	521.2	515.8	511.1	507.8	502.4	503.1	502.4	507.8	512.6	513.8
52.5°	575.8	575.0	569.6	568.4	570.3	567.6	567.6	560.9	563.0	565.7	564.9
55°	641.0	639.0	634.3	637.0	645.1	649.0	647.7	637.0	630.9	632.2	631.6
57.5°	712.3	710.2	708.9	716.9	735.2	751.9	748.6	723.8	712.3	713.0	713.7
60°	784.8	784.8	788.9	809.2	848.1	875.7	865.5	823.9	803.8	799.8	798.4
62.5°	859.6	861.6	870.3	904.0	963.8	1009.5	984.1	924.9	894.5	886.4	883.8
65°	946.4	948.3	961.1	1002.8	1082.2	1136.6	1093.0	1037.2	994.8	978.0	975.2
67.5°	1072.0	1073.5	1083.5	1123.9	1198.6	1242.3	1197.3	1147.5	1101.7	1082.2	1080.8
70°	1185.1	1186.4	1195.1	1248.4	1316.9	1332.4	1282.6	1219.4	1171.6	1156.2	1153.5
72.5°	1159.5	1164.3	1193.2	1276.0	1381.6	1401.6	1296.8	1201.9	1125.2	1099.6	1091.6
75°	972.5	980.0	1025.7	1150.1	1318.3	1375.5	1213.3	1039.1	924.9	875.7	862.9
77.5°	567.6	595.2	673.9	833.4	1073.5	1189.7	999.5	760.7	568.4	487.6	460.7
80°	155.3	170.1	227.4	383.3	673.3	833.4	637.5	349.1	188.4	141.3	131.2
82.5°	49.0	65.2	82.7	110.3	264.3	439.2	236.8	102.9	80.7	66.6	59.2
85°	26.2	28.2	46.4	53.8	79.4	123.1	73.3	53.8	48.4	35.7	33.6
87.5°	13.5	14.2	26.2	26.2	34.9	28.9	31.6	28.9	27.6	17.4	15.5
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)