

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: P214513

Luminaire Tested: **ARCH-AF16-30-D-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P214513  
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-AF16-30-D-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 560mA LIGHT ENGINE WITH 16 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3943.5 lumens  
Efficiency: N/A  
Efficacy: 123.2 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): 32  
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

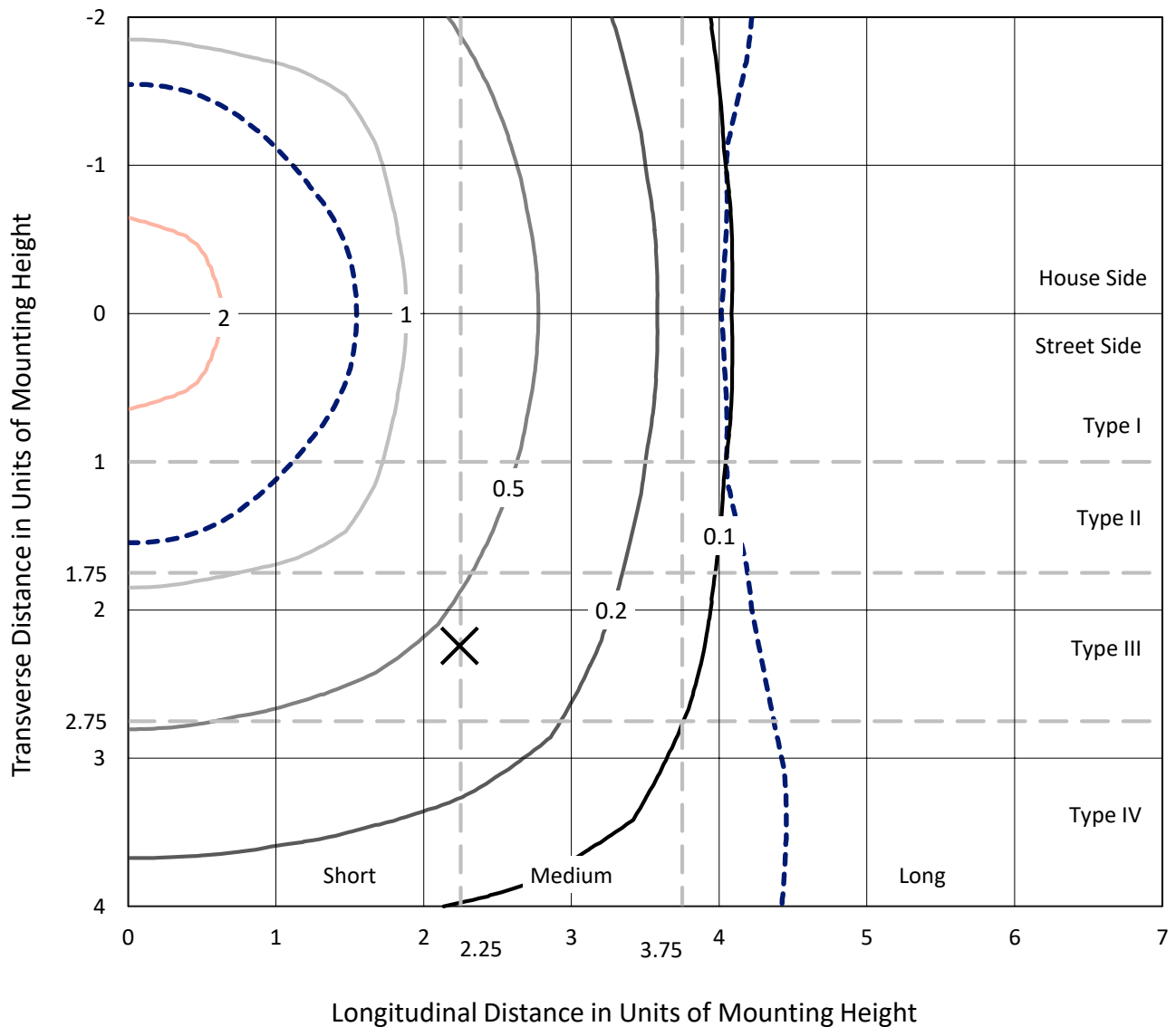


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

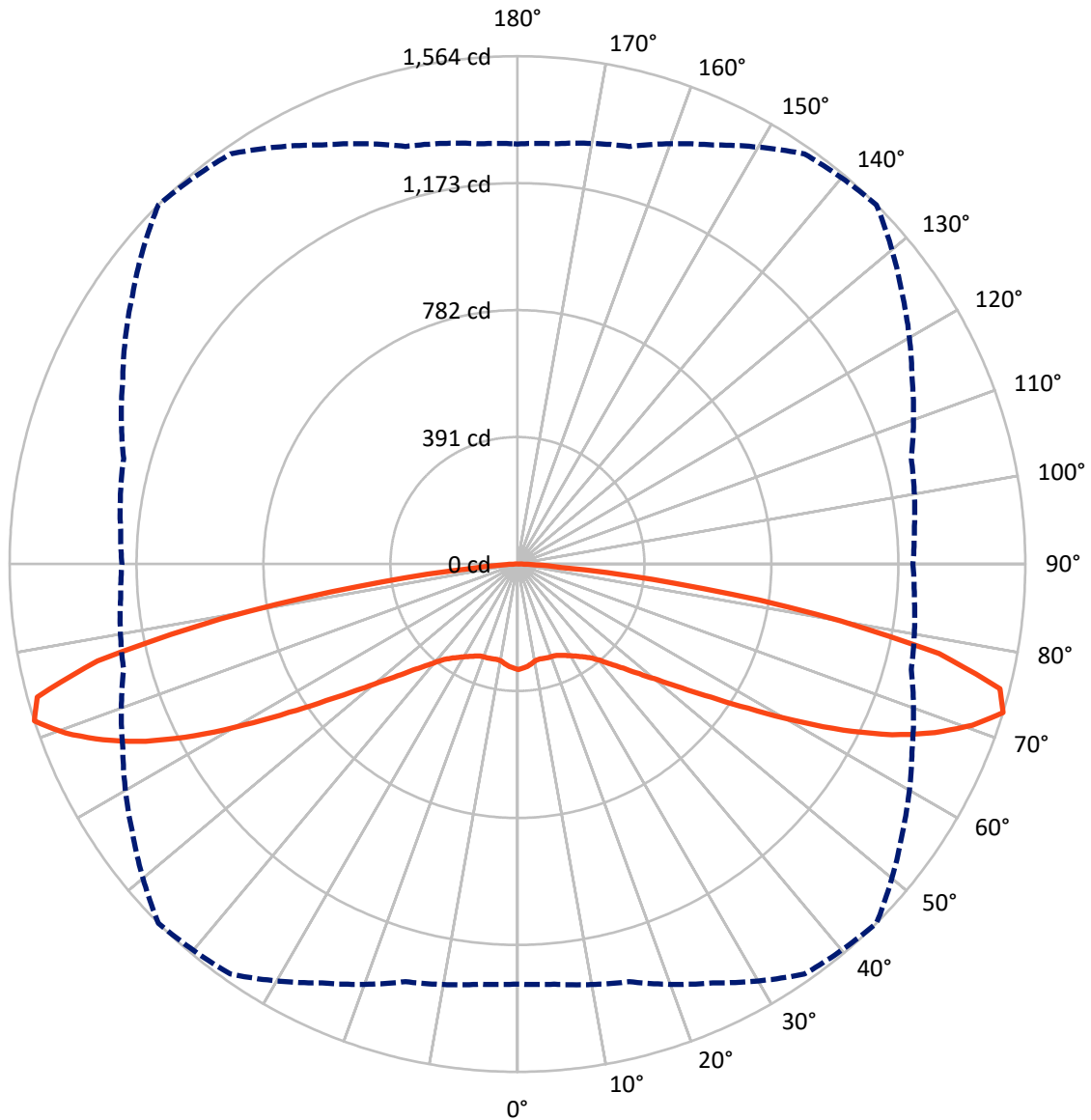


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc  
 Type V - Short - Non-Cutoff

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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	1971.7	0.0	1971.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1971.7	0.0	1971.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3943.5	0.0	3943.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.9	0.8
10°-20°	86.3	2.2
20°-30°	144.4	3.7
30°-40°	221.9	5.6
40°-50°	367.4	9.3
50°-60°	653.1	16.6
60°-70°	1142.6	29.0
70°-80°	1162.5	29.5
80°-90°	135.4	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°	3943.5	100.0
0°-180°	3943.5	100.0



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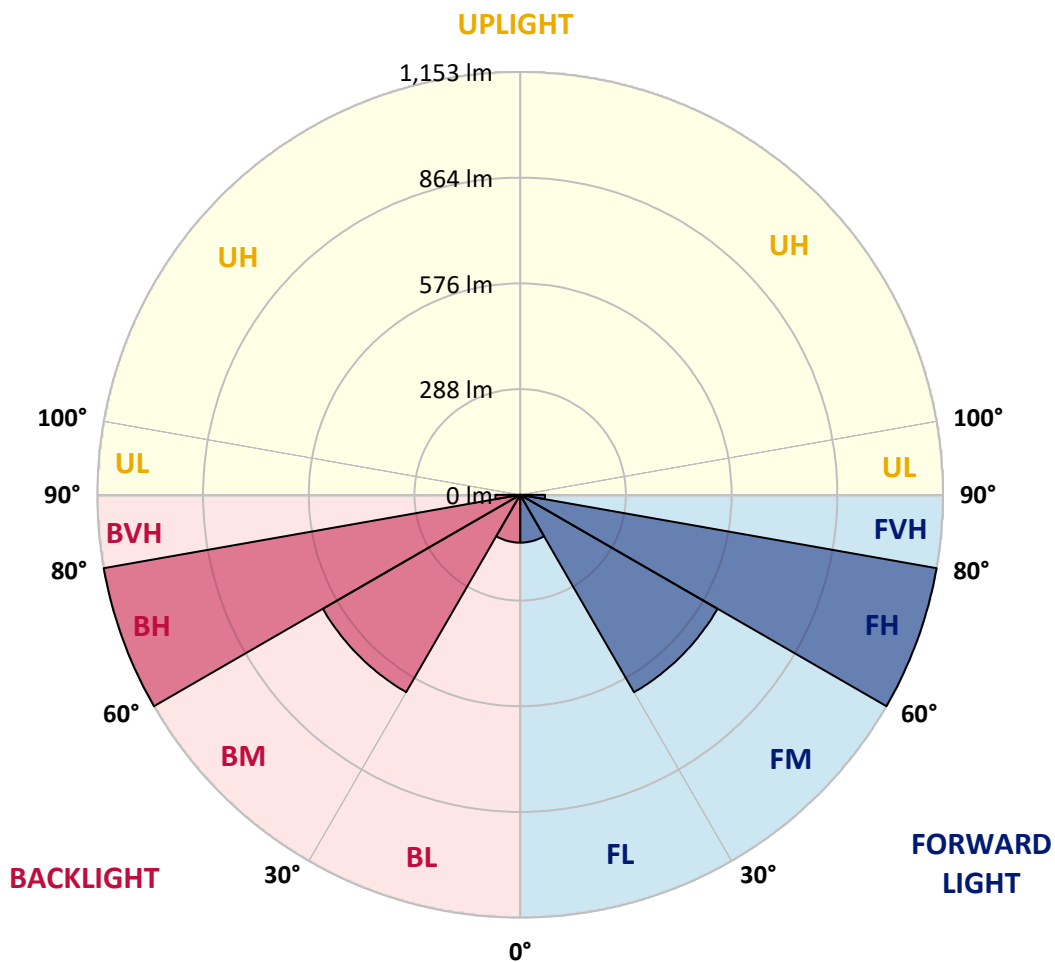
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	130.3	3.3			
FM	(30°-60°)	621.2	15.8			
FH	(60°-80°)	1152.6	29.2			G1/1800
FVH	(80°-90°)	67.7	1.7			G1/100
BL	(0°-30°)	130.3	3.3	B1/500		
BM	(30°-60°)	621.2	15.8	B1/1000		
BH	(60°-80°)	1152.6	29.2	B3/2500		G1/1800
BVH	(80°-90°)	67.7	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°	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0
2.5°	322.0	322.7	321.3	321.3	321.3	320.5	321.3	320.5	321.3	322.0	322.0
5°	319.1	319.1	317.5	317.5	317.5	316.8	317.5	317.5	318.2	319.1	319.1
7.5°	312.3	312.3	311.5	310.8	310.1	310.1	310.8	310.8	311.5	312.3	312.3
10°	308.5	307.8	306.3	304.0	303.3	302.5	304.0	305.6	307.8	310.1	309.2
12.5°	307.0	306.3	303.3	301.1	299.5	300.2	301.8	303.3	307.0	309.2	308.5
15°	308.5	307.0	303.3	299.5	300.2	301.8	303.3	303.3	307.8	310.1	310.1
17.5°	308.5	307.8	303.3	300.2	301.1	303.3	304.0	303.3	307.0	310.8	310.8
20°	309.2	309.2	303.3	301.1	301.8	304.0	304.7	304.0	307.0	311.5	311.5
22.5°	310.8	310.1	304.0	302.5	304.0	305.6	306.3	305.6	308.5	312.3	313.0
25°	313.7	312.3	307.0	306.3	309.2	311.5	311.5	310.1	311.5	315.3	315.3
27.5°	317.5	316.8	310.8	310.8	314.6	319.1	316.8	313.7	315.3	319.1	319.1
30°	324.3	323.6	317.5	317.5	322.7	328.1	322.7	319.1	321.3	325.0	325.8
32.5°	334.0	334.0	328.8	327.2	336.2	338.6	336.2	328.8	330.3	335.5	335.5
35°	350.6	349.0	343.8	343.1	352.1	351.3	350.6	343.8	345.3	351.3	351.3
37.5°	372.4	371.5	367.0	364.8	369.3	366.3	367.9	364.8	368.6	373.1	373.8
40°	400.1	399.4	395.6	392.6	394.1	389.5	391.1	392.6	396.4	399.4	400.1
42.5°	434.7	434.7	430.9	425.6	423.4	421.1	421.1	424.1	427.9	431.6	431.6
45°	477.4	477.4	472.9	467.7	460.9	457.2	458.7	461.7	466.2	470.7	472.2
47.5°	527.7	527.7	521.7	516.5	509.7	505.2	505.2	506.7	513.4	517.2	519.5
50°	584.0	581.8	575.7	570.5	566.7	560.8	561.5	560.8	566.7	572.0	573.5
52.5°	642.5	641.8	635.8	634.3	636.6	633.5	633.5	626.0	628.3	631.3	630.5
55°	715.3	713.1	707.9	710.8	719.9	724.4	722.9	710.8	704.1	705.6	704.9
57.5°	794.9	792.7	791.2	800.2	820.5	839.2	835.4	807.7	794.9	795.7	796.5
60°	876.1	876.1	880.6	903.1	946.5	977.3	966.1	919.5	897.0	892.5	891.0
62.5°	959.3	961.6	971.4	1008.8	1075.7	1126.8	1098.2	1032.2	998.4	989.4	986.3
65°	1056.2	1058.4	1072.7	1119.2	1207.8	1268.6	1219.8	1157.5	1110.2	1091.5	1088.4
67.5°	1196.5	1198.1	1209.3	1254.3	1337.7	1386.5	1336.2	1280.6	1229.6	1207.8	1206.3
70°	1322.7	1324.1	1333.9	1393.3	1469.8	1487.1	1431.5	1360.9	1307.6	1290.4	1287.4
72.5°	1294.1	1299.4	1331.7	1423.9	1541.9	1564.4	1447.3	1341.4	1255.9	1227.3	1218.3
75°	1085.5	1093.7	1144.8	1283.6	1471.3	1535.1	1354.2	1159.7	1032.2	977.3	963.1
77.5°	633.5	664.3	752.2	930.1	1198.1	1327.9	1115.4	848.9	634.3	544.2	514.2
80°	173.4	190.0	253.7	427.9	751.4	930.1	711.7	389.5	210.2	157.6	146.4
82.5°	54.8	72.8	92.4	123.1	295.0	490.2	264.2	114.9	90.1	74.3	66.1
85°	29.3	31.5	51.8	60.0	88.6	137.4	81.8	60.0	54.0	39.8	37.5
87.5°	15.0	15.8	29.3	29.3	39.1	32.3	35.3	32.3	30.8	19.5	17.3
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)