

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: P214504

Luminaire Tested: **ARCH-AF24-30-D-U-5WQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P214504  
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-7030  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 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: 3600 lumens  
Efficiency: N/A  
Efficacy: 116.1 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 (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

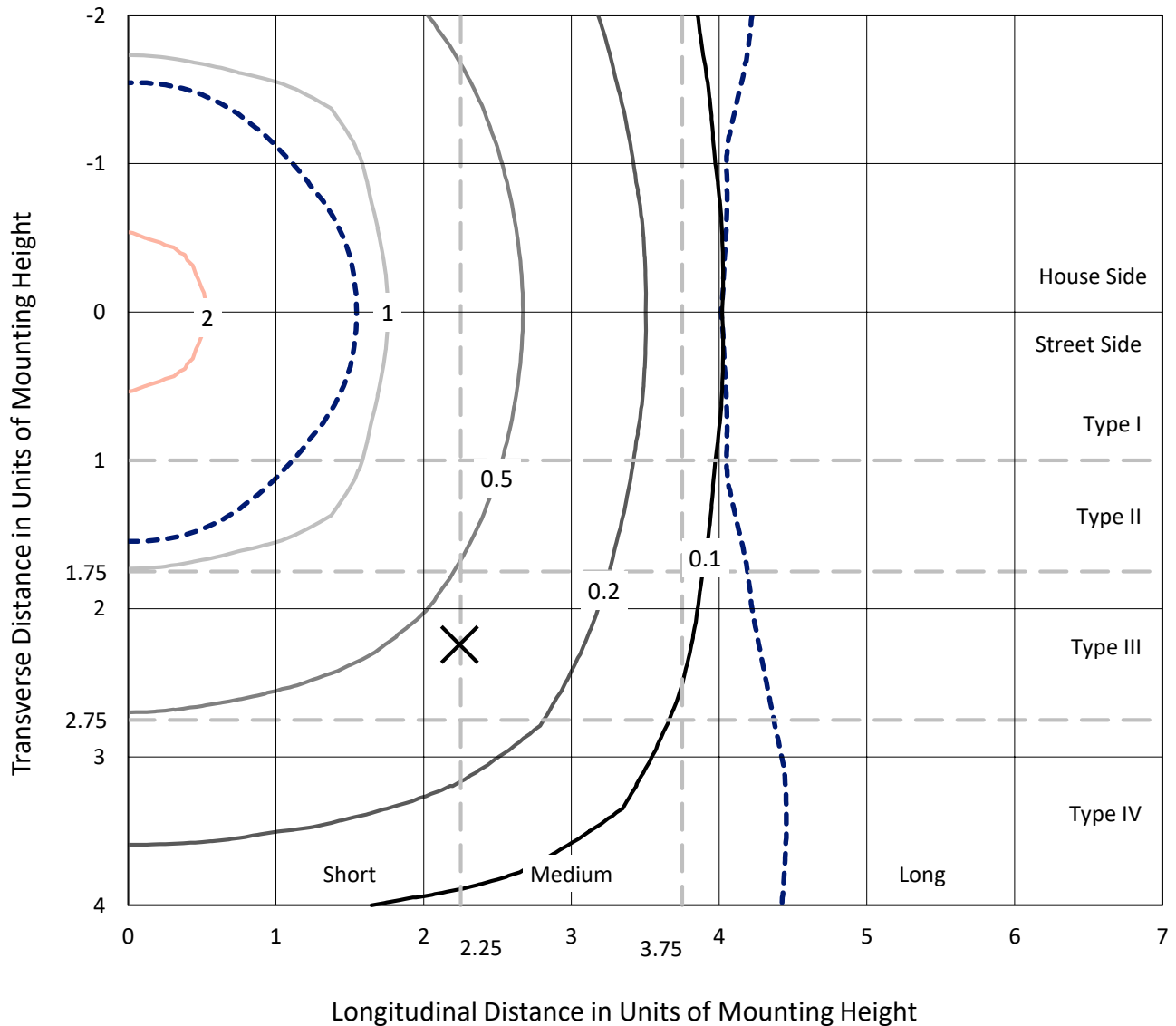


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

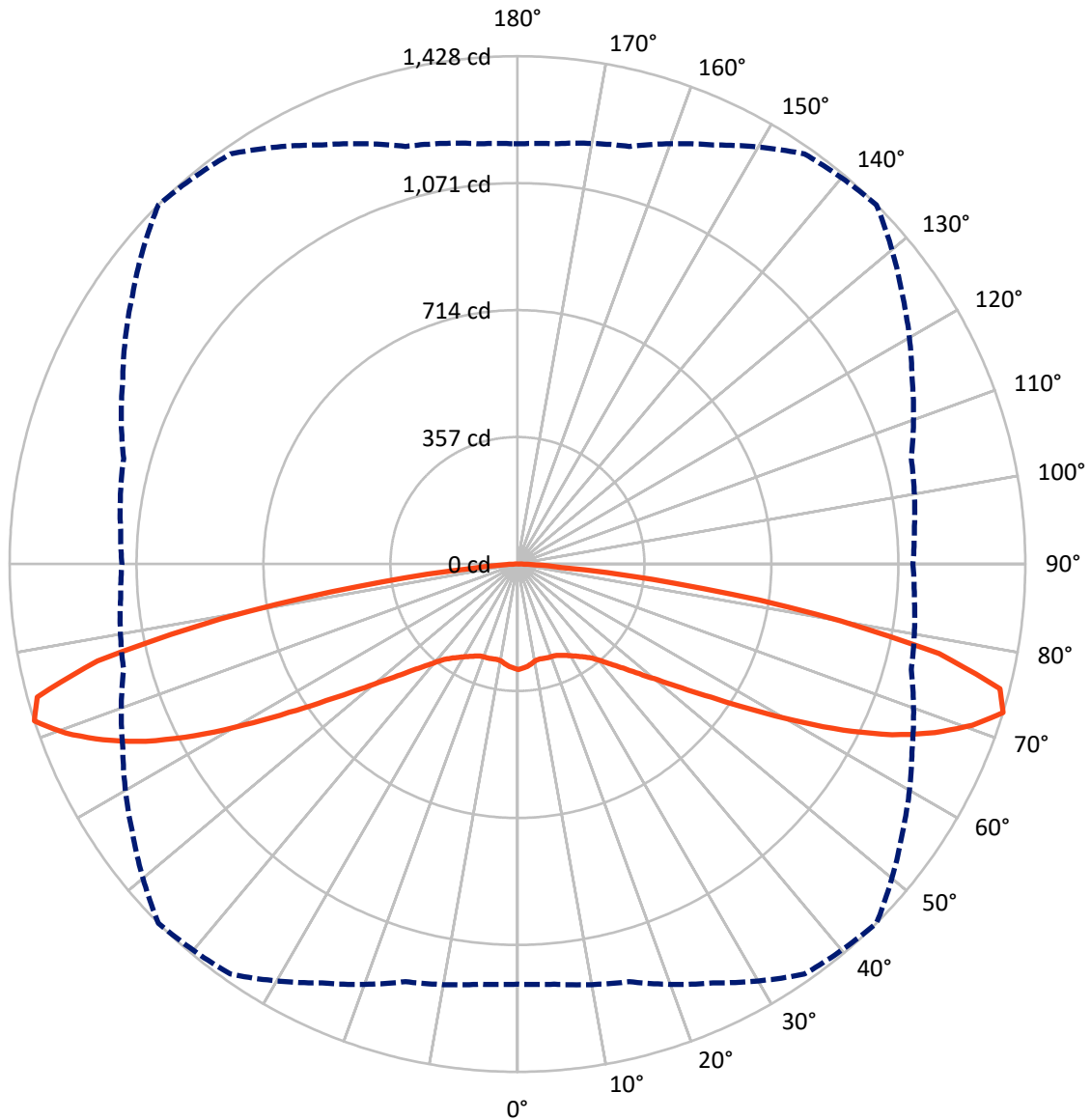


Based on 10 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - Non-Cutoff

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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	1800.0	0.0	1800.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1800.0	0.0	1800.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3600.0	0.0	3600.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.3	0.8
10°-20°	78.8	2.2
20°-30°	131.8	3.7
30°-40°	202.6	5.6
40°-50°	335.4	9.3
50°-60°	596.2	16.6
60°-70°	1043.1	29.0
70°-80°	1061.3	29.5
80°-90°	123.6	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°	3600.0	100.0
0°-180°	3600.0	100.0



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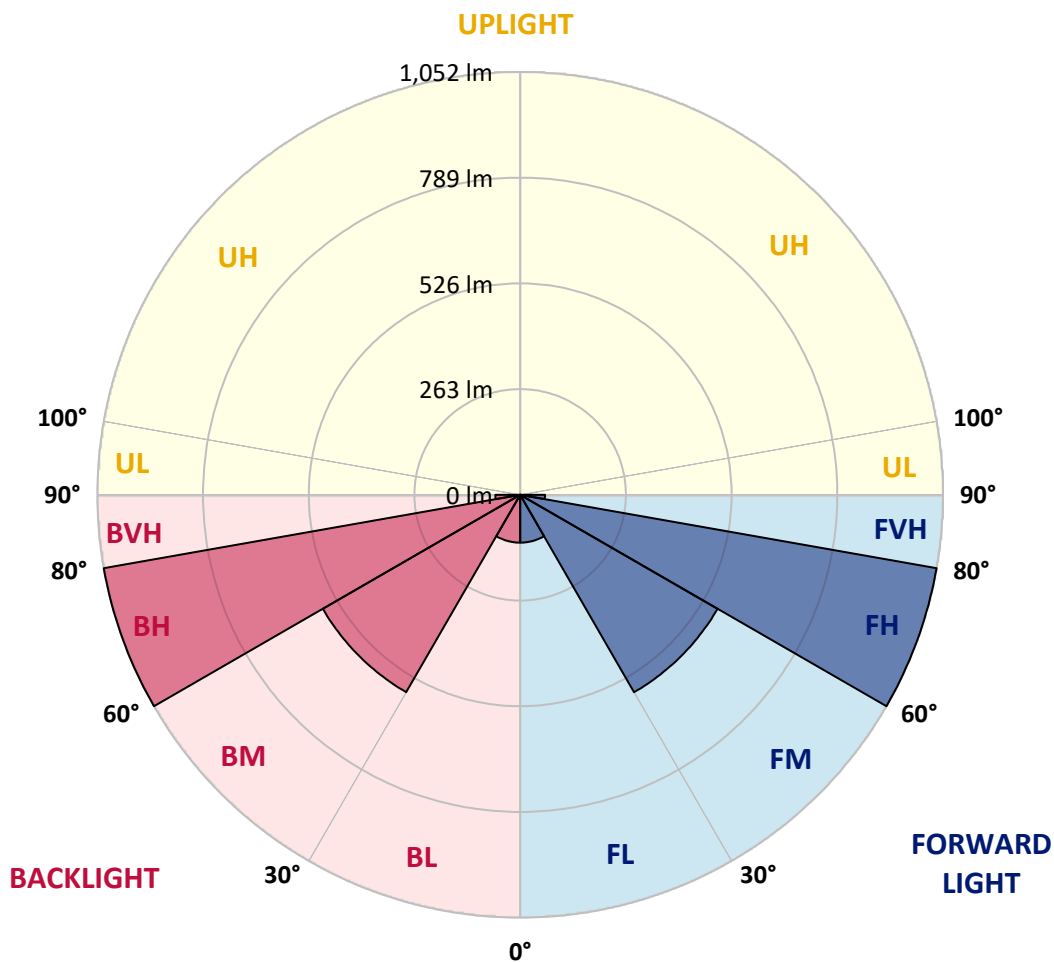
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	119.0	3.3			
FM	(30°-60°)	567.1	15.8			
FH	(60°-80°)	1052.2	29.2			G1/1800
FVH	(80°-90°)	61.8	1.7			G1/100
BL	(0°-30°)	119.0	3.3	B1/500		
BM	(30°-60°)	567.1	15.8	B1/1000		
BH	(60°-80°)	1052.2	29.2	B3/2500		G1/1800
BVH	(80°-90°)	61.8	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°	296.7	296.7	296.7	296.7	296.7	296.7	296.7	296.7	296.7	296.7	296.7
2.5°	294.0	294.7	293.3	293.3	293.3	292.6	293.3	292.6	293.3	294.0	294.0
5°	291.2	291.2	289.9	289.9	289.9	289.2	289.9	289.9	290.6	291.2	291.2
7.5°	285.1	285.1	284.4	283.7	283.0	283.0	283.7	283.7	284.4	285.1	285.1
10°	281.6	281.0	279.6	277.5	276.9	276.2	277.5	278.9	281.0	283.0	282.3
12.5°	280.3	279.6	276.9	274.8	273.4	274.1	275.5	276.9	280.3	282.3	281.6
15°	281.6	280.3	276.9	273.4	274.1	275.5	276.9	276.9	281.0	283.0	283.0
17.5°	281.6	281.0	276.9	274.1	274.8	276.9	277.5	276.9	280.3	283.7	283.7
20°	282.3	282.3	276.9	274.8	275.5	277.5	278.2	277.5	280.3	284.4	284.4
22.5°	283.7	283.0	277.5	276.2	277.5	278.9	279.6	278.9	281.6	285.1	285.8
25°	286.4	285.1	280.3	279.6	282.3	284.4	284.4	283.0	284.4	287.8	287.8
27.5°	289.9	289.2	283.7	283.7	287.1	291.2	289.2	286.4	287.8	291.2	291.2
30°	296.0	295.4	289.9	289.9	294.7	299.5	294.7	291.2	293.3	296.7	297.4
32.5°	304.9	304.9	300.2	298.8	307.0	309.1	307.0	300.2	301.5	306.3	306.3
35°	320.0	318.7	313.9	313.2	321.4	320.7	320.0	313.9	315.2	320.7	320.7
37.5°	339.9	339.2	335.1	333.0	337.2	334.4	335.8	333.0	336.5	340.6	341.3
40°	365.3	364.6	361.1	358.4	359.8	355.7	357.0	358.4	361.8	364.6	365.3
42.5°	396.8	396.8	393.3	388.6	386.5	384.4	384.4	387.2	390.6	394.0	394.0
45°	435.8	435.8	431.7	426.9	420.8	417.3	418.7	421.4	425.6	429.7	431.0
47.5°	481.7	481.7	476.3	471.5	465.3	461.2	461.2	462.6	468.7	472.2	474.2
50°	533.1	531.1	525.6	520.8	517.4	511.9	512.6	511.9	517.4	522.2	523.5
52.5°	586.6	585.9	580.4	579.1	581.1	578.4	578.4	571.5	573.6	576.3	575.6
55°	653.1	651.0	646.2	649.0	657.2	661.3	659.9	649.0	642.8	644.2	643.5
57.5°	725.7	723.6	722.3	730.5	749.0	766.1	762.7	737.4	725.7	726.4	727.1
60°	799.7	799.7	803.8	824.4	864.1	892.2	881.9	839.5	818.9	814.8	813.4
62.5°	875.8	877.8	886.7	921.0	982.0	1028.6	1002.6	942.3	911.4	903.2	900.5
65°	964.2	966.2	979.3	1021.7	1102.6	1158.1	1113.6	1056.7	1013.5	996.4	993.6
67.5°	1092.3	1093.7	1104.0	1145.1	1221.2	1265.7	1219.8	1169.1	1122.5	1102.6	1101.2
70°	1207.5	1208.8	1217.7	1271.9	1341.8	1357.5	1306.8	1242.4	1193.7	1178.0	1175.2
72.5°	1181.4	1186.2	1215.7	1300.0	1407.6	1428.1	1321.2	1224.6	1146.5	1120.4	1112.2
75°	990.9	998.4	1045.0	1171.8	1343.1	1401.4	1236.2	1058.7	942.3	892.2	879.2
77.5°	578.4	606.5	686.6	849.1	1093.7	1212.2	1018.3	775.0	579.1	496.8	469.4
80°	158.3	173.4	231.6	390.6	686.0	849.1	649.6	355.7	191.9	143.9	133.6
82.5°	50.0	66.5	84.3	112.4	269.3	447.5	241.2	104.8	82.2	67.8	60.3
85°	26.7	28.8	47.3	54.8	80.9	125.4	74.7	54.8	49.3	36.3	34.3
87.5°	13.7	14.4	26.7	26.7	35.6	29.5	32.2	29.5	28.1	17.8	15.8
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)