

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: P214499

Luminaire Tested: **ARCH-AF16-30-D-U-5WQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P214499  
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-7030  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 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: 3727.9 lumens  
Efficiency: N/A  
Efficacy: 116.5 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

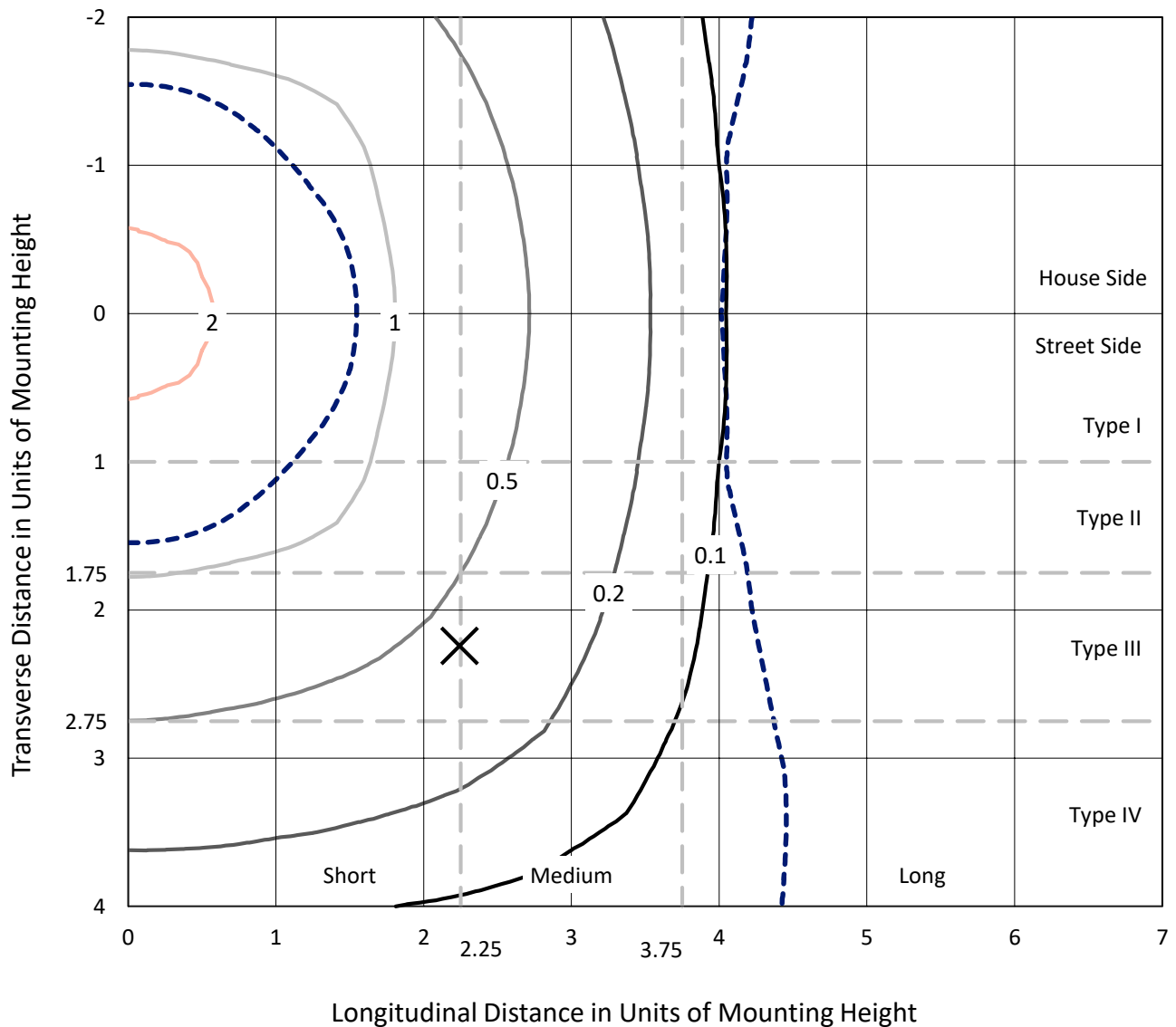


REPORT NUMBER: P214499

CATALOG NUMBER: ARCH-AF16-30-D-U-5WQ-7030

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

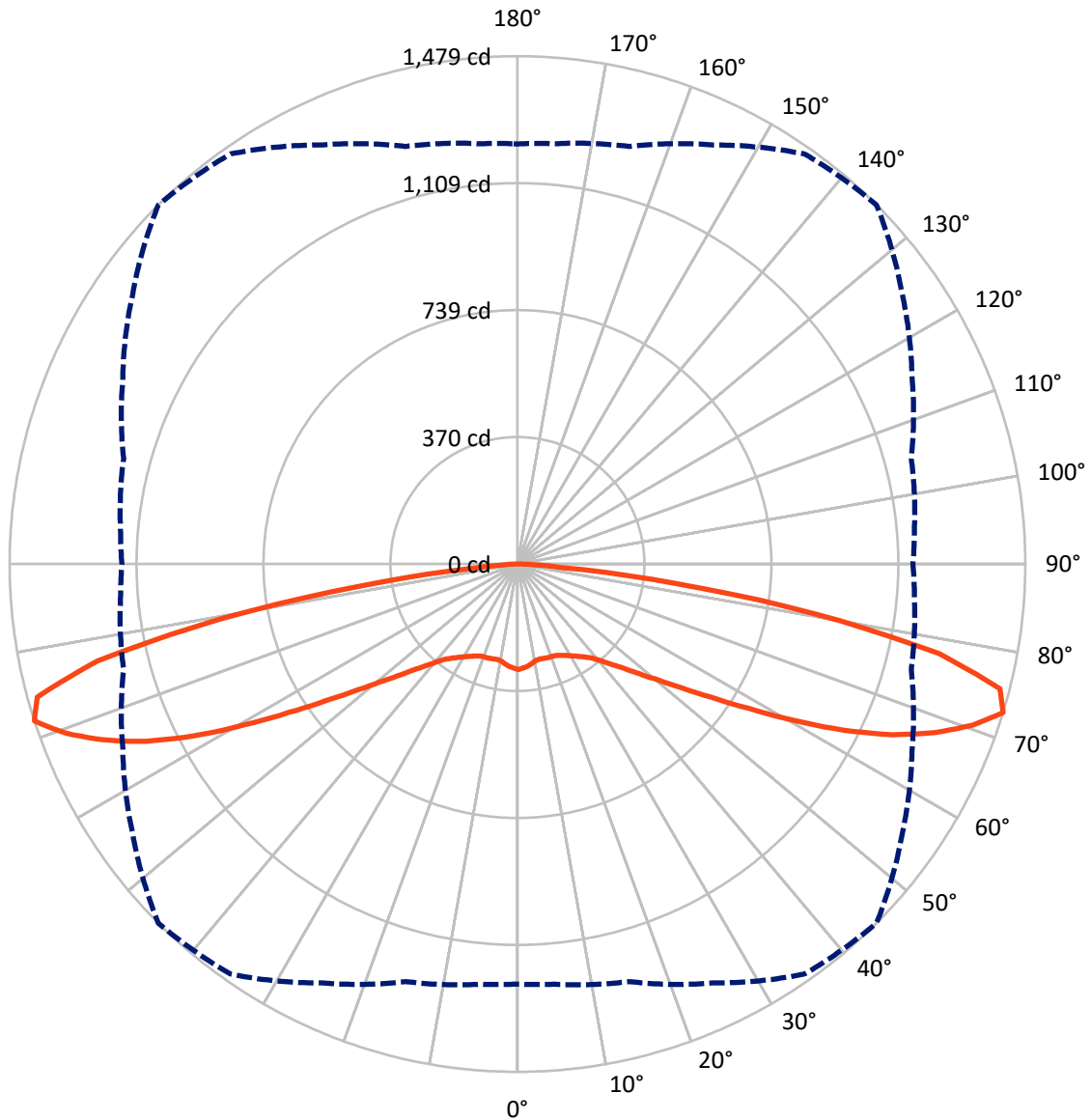


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P214499

CATALOG NUMBER: ARCH-AF16-30-D-U-5WQ-7030

### 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	1864.0	0.0	1864.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1864.0	0.0	1864.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3727.9	0.0	3727.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.3	0.8
10°-20°	81.6	2.2
20°-30°	136.5	3.7
30°-40°	209.8	5.6
40°-50°	347.3	9.3
50°-60°	617.4	16.6
60°-70°	1080.2	29.0
70°-80°	1099.0	29.5
80°-90°	128.0	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°	3727.9	100.0
0°-180°	3727.9	100.0



REPORT NUMBER: P214499

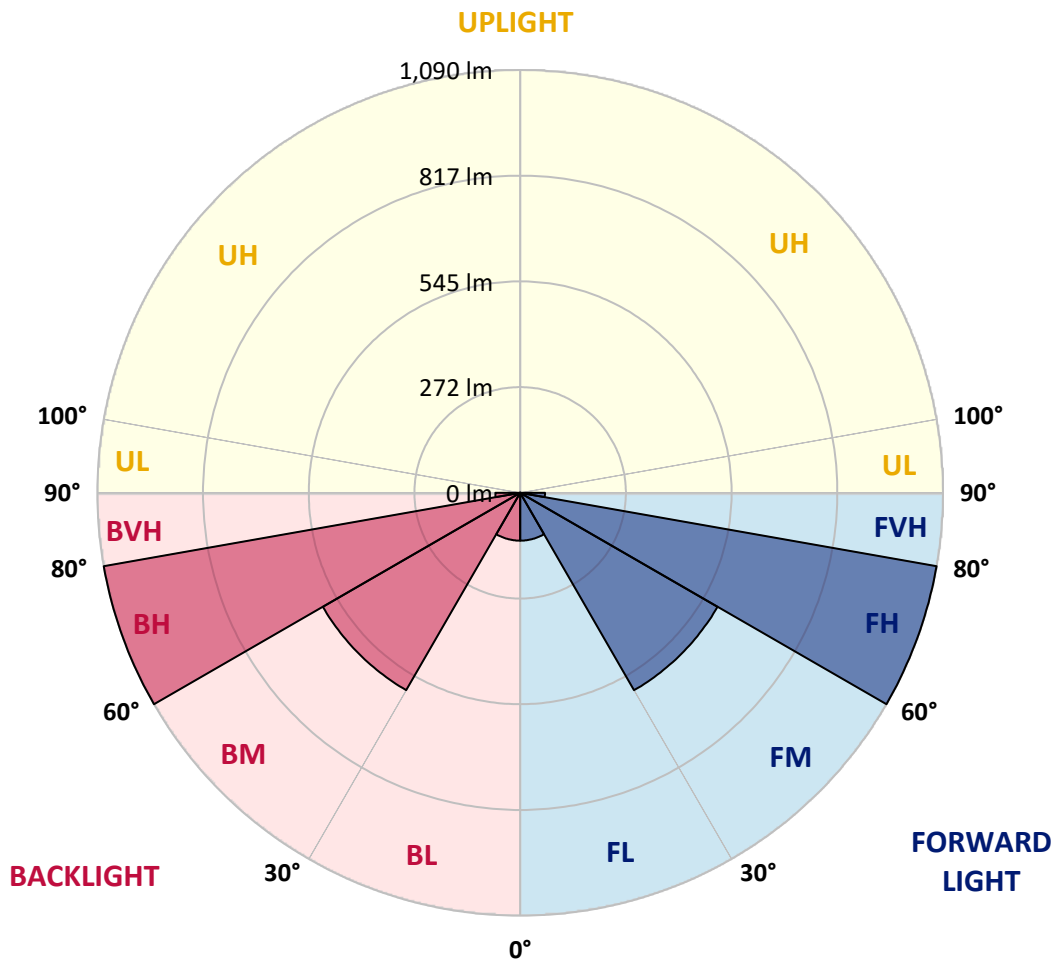
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	123.2	3.3			
FM	(30°-60°)	587.2	15.8			
FH	(60°-80°)	1089.6	29.2			G1/1800
FVH	(80°-90°)	64.0	1.7			G1/100
BL	(0°-30°)	123.2	3.3	B1/500		
BM	(30°-60°)	587.2	15.8	B1/1000		
BH	(60°-80°)	1089.6	29.2	B3/2500		G1/1800
BVH	(80°-90°)	64.0	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°	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2
2.5°	304.4	305.2	303.7	303.7	303.7	302.9	303.7	302.9	303.7	304.4	304.4
5°	301.5	301.5	300.1	300.1	300.1	299.5	300.1	300.1	300.9	301.5	301.5
7.5°	295.2	295.2	294.5	293.8	293.1	293.1	293.8	293.8	294.5	295.2	295.2
10°	291.6	290.9	289.5	287.4	286.7	285.9	287.4	288.8	290.9	293.1	292.4
12.5°	290.2	289.5	286.7	284.5	283.1	283.8	285.2	286.7	290.2	292.4	291.6
15°	291.6	290.2	286.7	283.1	283.8	285.2	286.7	286.7	290.9	293.1	293.1
17.5°	291.6	290.9	286.7	283.8	284.5	286.7	287.4	286.7	290.2	293.8	293.8
20°	292.4	292.4	286.7	284.5	285.2	287.4	288.1	287.4	290.2	294.5	294.5
22.5°	293.8	293.1	287.4	285.9	287.4	288.8	289.5	288.8	291.6	295.2	295.9
25°	296.6	295.2	290.2	289.5	292.4	294.5	294.5	293.1	294.5	298.1	298.1
27.5°	300.1	299.5	293.8	293.8	297.3	301.5	299.5	296.6	298.1	301.5	301.5
30°	306.6	305.8	300.1	300.1	305.2	310.1	305.2	301.5	303.7	307.2	308.0
32.5°	315.8	315.8	310.9	309.4	318.0	320.0	318.0	310.9	312.3	317.2	317.2
35°	331.4	330.0	325.0	324.3	332.8	332.1	331.4	325.0	326.4	332.1	332.1
37.5°	352.0	351.3	347.0	344.9	349.1	346.3	347.7	344.9	348.4	352.7	353.4
40°	378.2	377.5	374.0	371.2	372.6	368.3	369.8	371.2	374.6	377.5	378.2
42.5°	411.0	411.0	407.3	402.4	400.2	398.1	398.1	401.0	404.5	408.1	408.1
45°	451.4	451.4	447.1	442.1	435.7	432.1	433.5	436.4	440.7	444.9	446.4
47.5°	498.9	498.9	493.2	488.2	481.9	477.6	477.6	479.0	485.3	488.9	491.0
50°	552.1	550.0	544.3	539.3	535.8	530.1	530.8	530.1	535.8	540.8	542.2
52.5°	607.5	606.7	601.0	599.7	601.8	599.0	599.0	591.8	594.0	596.8	596.1
55°	676.4	674.1	669.2	672.1	680.5	684.8	683.4	672.1	665.6	667.0	666.4
57.5°	751.4	749.4	748.0	756.5	775.6	793.3	789.8	763.5	751.4	752.2	752.9
60°	828.1	828.1	832.3	853.7	894.9	923.9	913.3	869.2	848.0	843.7	842.3
62.5°	906.9	909.0	918.3	953.8	1016.8	1065.2	1038.2	975.6	943.8	935.3	932.4
65°	998.4	1000.6	1014.0	1058.0	1141.8	1199.2	1153.1	1094.2	1049.6	1031.9	1029.0
67.5°	1131.2	1132.6	1143.2	1185.8	1264.5	1310.7	1263.1	1210.6	1162.4	1141.8	1140.3
70°	1250.4	1251.8	1261.0	1317.0	1389.4	1405.7	1353.2	1286.5	1236.2	1219.9	1217.0
72.5°	1223.3	1228.4	1258.8	1346.2	1457.5	1478.9	1368.2	1268.1	1187.2	1160.3	1151.7
75°	1026.2	1033.9	1082.2	1213.5	1390.9	1451.2	1280.2	1096.4	975.6	923.9	910.4
77.5°	599.0	628.0	711.1	879.2	1132.6	1255.3	1054.5	802.6	599.7	514.5	486.1
80°	163.9	179.5	239.9	404.5	710.3	879.2	672.7	368.3	198.8	149.0	138.4
82.5°	51.8	68.9	87.3	116.4	278.8	463.4	249.7	108.6	85.1	70.3	62.5
85°	27.7	29.8	48.9	56.9	83.7	129.9	77.3	56.9	51.2	37.5	35.5
87.5°	14.2	14.9	27.7	27.7	36.9	30.5	33.4	30.5	29.1	18.5	16.3
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)