

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: P214527

Luminaire Tested: **ARCH-AF16-30-D-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214527
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-7050
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 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: 3855 lumens
Efficiency: N/A
Efficacy: 120.5 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

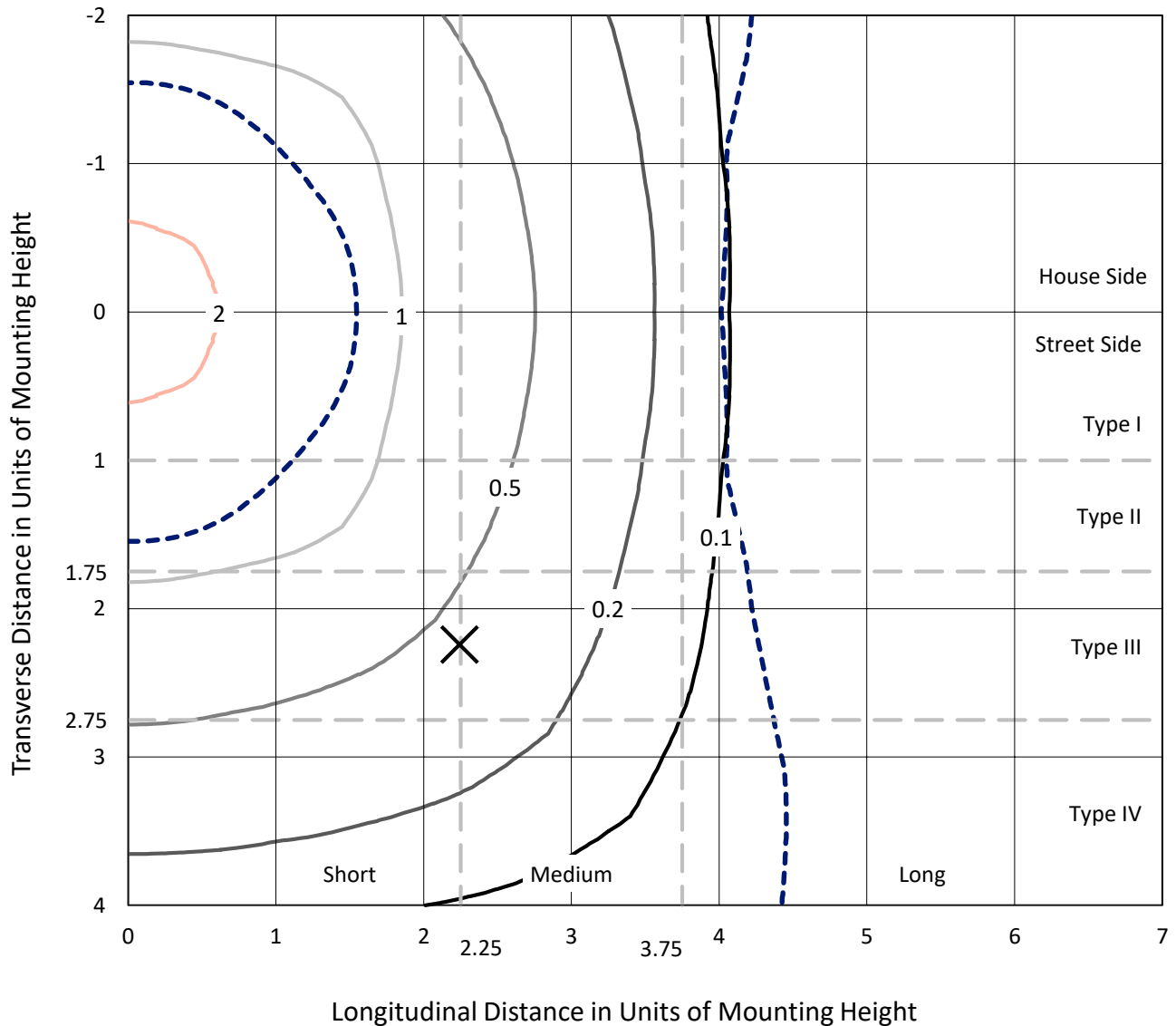
Input Watts (W): 32
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

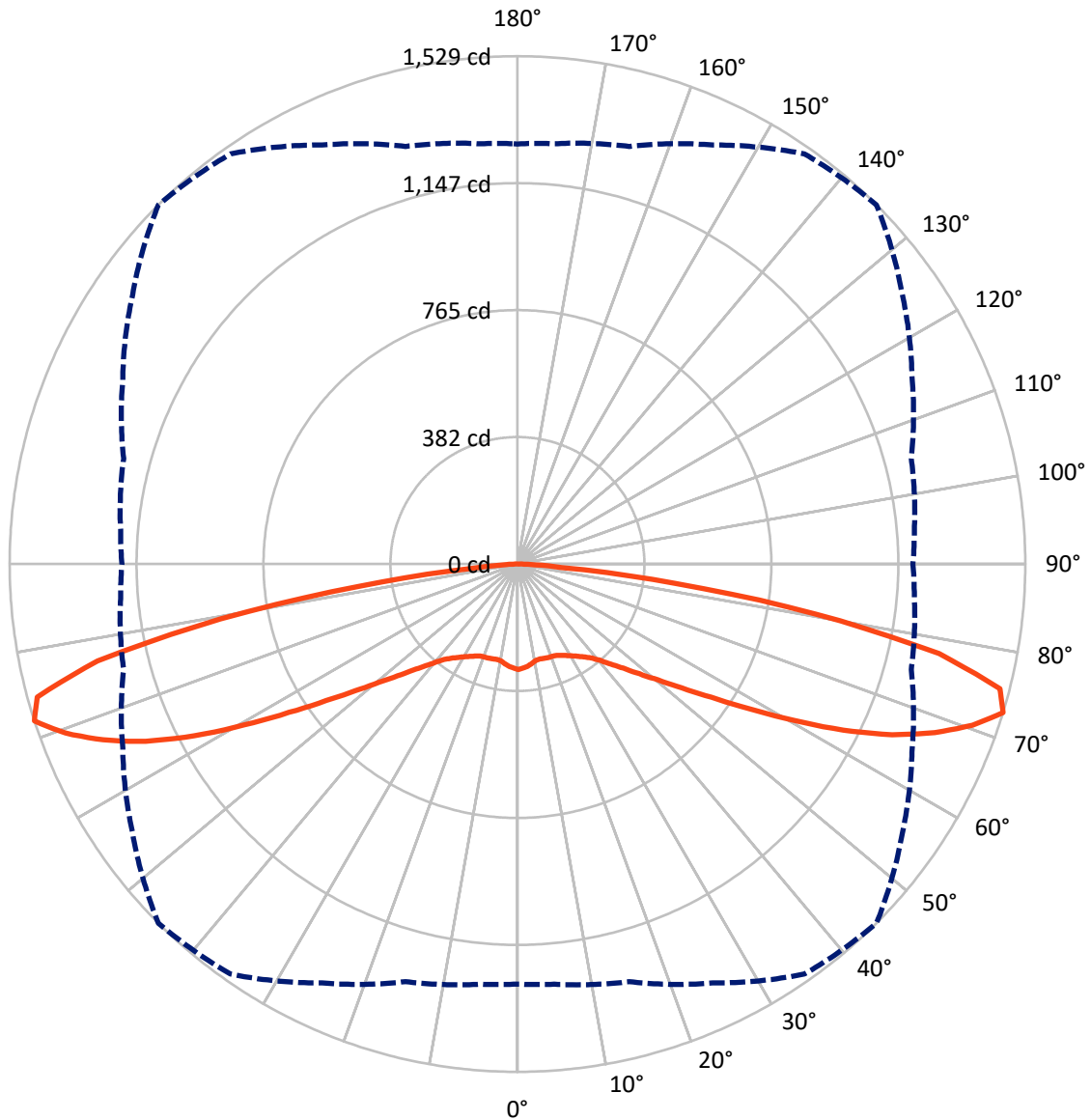


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Non-Cutoff

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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
House Side	Lumens	1927.5	0.0	1927.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1927.5	0.0	1927.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3855.0	0.0	3855.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	0.8
10°-20°	84.4	2.2
20°-30°	141.2	3.7
30°-40°	216.9	5.6
40°-50°	359.1	9.3
50°-60°	638.5	16.6
60°-70°	1117.0	29.0
70°-80°	1136.4	29.5
80°-90°	132.3	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°	3855.0	100.0
0°-180°	3855.0	100.0



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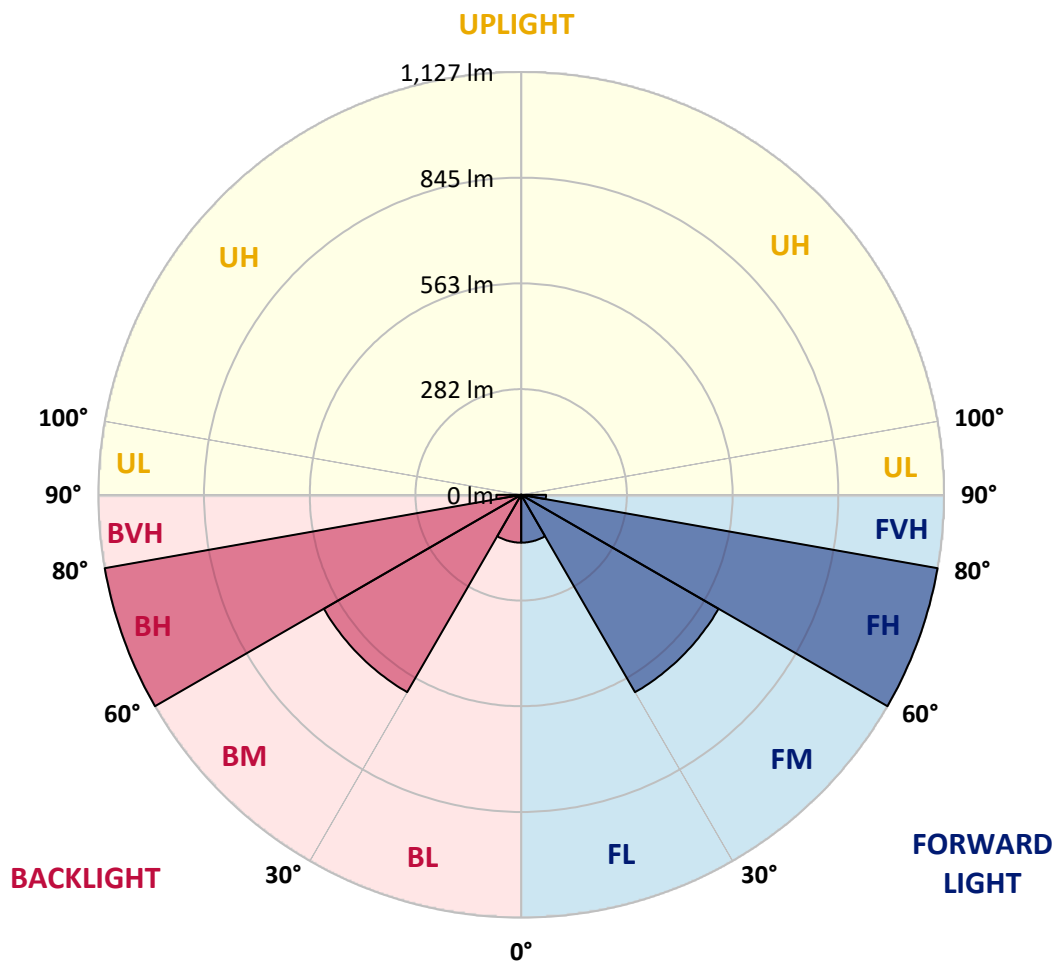
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	127.4	3.3			
FM	(30°-60°)	607.2	15.8			
FH	(60°-80°)	1126.7	29.2			G1/1800
FVH	(80°-90°)	66.2	1.7			G1/100
BL	(0°-30°)	127.4	3.3	B1/500		
BM	(30°-60°)	607.2	15.8	B1/1000		
BH	(60°-80°)	1126.7	29.2	B3/2500		G1/1800
BVH	(80°-90°)	66.2	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°	317.7	317.7	317.7	317.7	317.7	317.7	317.7	317.7	317.7	317.7	317.7
2.5°	314.8	315.5	314.1	314.1	314.1	313.3	314.1	313.3	314.1	314.8	314.8
5°	311.9	311.9	310.4	310.4	310.4	309.7	310.4	310.4	311.1	311.9	311.9
7.5°	305.3	305.3	304.5	303.8	303.1	303.1	303.8	303.8	304.5	305.3	305.3
10°	301.6	300.9	299.4	297.2	296.5	295.7	297.2	298.7	300.9	303.1	302.3
12.5°	300.1	299.4	296.5	294.3	292.8	293.5	295.0	296.5	300.1	302.3	301.6
15°	301.6	300.1	296.5	292.8	293.5	295.0	296.5	296.5	300.9	303.1	303.1
17.5°	301.6	300.9	296.5	293.5	294.3	296.5	297.2	296.5	300.1	303.8	303.8
20°	302.3	302.3	296.5	294.3	295.0	297.2	297.9	297.2	300.1	304.5	304.5
22.5°	303.8	303.1	297.2	295.7	297.2	298.7	299.4	298.7	301.6	305.3	306.0
25°	306.7	305.3	300.1	299.4	302.3	304.5	304.5	303.1	304.5	308.2	308.2
27.5°	310.4	309.7	303.8	303.8	307.5	311.9	309.7	306.7	308.2	311.9	311.9
30°	317.0	316.3	310.4	310.4	315.5	320.7	315.5	311.9	314.1	317.7	318.5
32.5°	326.5	326.5	321.4	319.9	328.7	331.0	328.7	321.4	322.9	328.0	328.0
35°	342.7	341.2	336.1	335.4	344.2	343.4	342.7	336.1	337.6	343.4	343.4
37.5°	364.0	363.2	358.8	356.6	361.0	358.1	359.6	356.6	360.3	364.7	365.4
40°	391.1	390.4	386.7	383.8	385.3	380.8	382.3	383.8	387.5	390.4	391.1
42.5°	424.9	424.9	421.2	416.1	413.9	411.7	411.7	414.6	418.3	421.9	421.9
45°	466.7	466.7	462.3	457.2	450.6	446.9	448.4	451.3	455.7	460.1	461.6
47.5°	515.9	515.9	510.0	504.9	498.3	493.9	493.9	495.3	501.9	505.6	507.8
50°	570.9	568.7	562.8	557.7	554.0	548.2	548.9	548.2	554.0	559.2	560.6
52.5°	628.1	627.4	621.5	620.1	622.3	619.3	619.3	612.0	614.2	617.1	616.4
55°	699.3	697.1	692.0	694.9	703.7	708.1	706.7	694.9	688.3	689.8	689.1
57.5°	777.1	774.9	773.4	782.2	802.1	820.4	816.7	789.6	777.1	777.8	778.6
60°	856.4	856.4	860.8	882.8	925.3	955.4	944.4	898.9	876.9	872.5	871.0
62.5°	937.8	940.0	949.6	986.2	1051.6	1101.5	1073.6	1009.0	976.0	967.2	964.2
65°	1032.5	1034.7	1048.6	1094.1	1180.7	1240.1	1192.4	1131.5	1085.3	1067.0	1064.0
67.5°	1169.7	1171.2	1182.2	1226.2	1307.7	1355.4	1306.2	1251.9	1202.0	1180.7	1179.2
70°	1293.0	1294.4	1304.0	1362.0	1436.8	1453.7	1399.4	1330.4	1278.3	1261.4	1258.5
72.5°	1265.1	1270.2	1301.8	1392.0	1507.3	1529.3	1414.8	1311.3	1227.7	1199.8	1191.0
75°	1061.1	1069.2	1119.1	1254.8	1438.3	1500.7	1323.8	1133.7	1009.0	955.4	941.5
77.5°	619.3	649.4	735.3	909.2	1171.2	1298.1	1090.4	829.9	620.1	532.0	502.7
80°	169.5	185.7	248.0	418.3	734.5	909.2	695.7	380.8	205.5	154.1	143.1
82.5°	53.6	71.2	90.3	120.3	288.4	479.2	258.3	112.3	88.1	72.6	64.6
85°	28.6	30.8	50.6	58.7	86.6	134.3	80.0	58.7	52.8	38.9	36.7
87.5°	14.7	15.4	28.6	28.6	38.2	31.6	34.5	31.6	30.1	19.1	16.9
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)