

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: P348697

Luminaire Tested: **ARCH-N-PA1-30-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-30-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3761 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

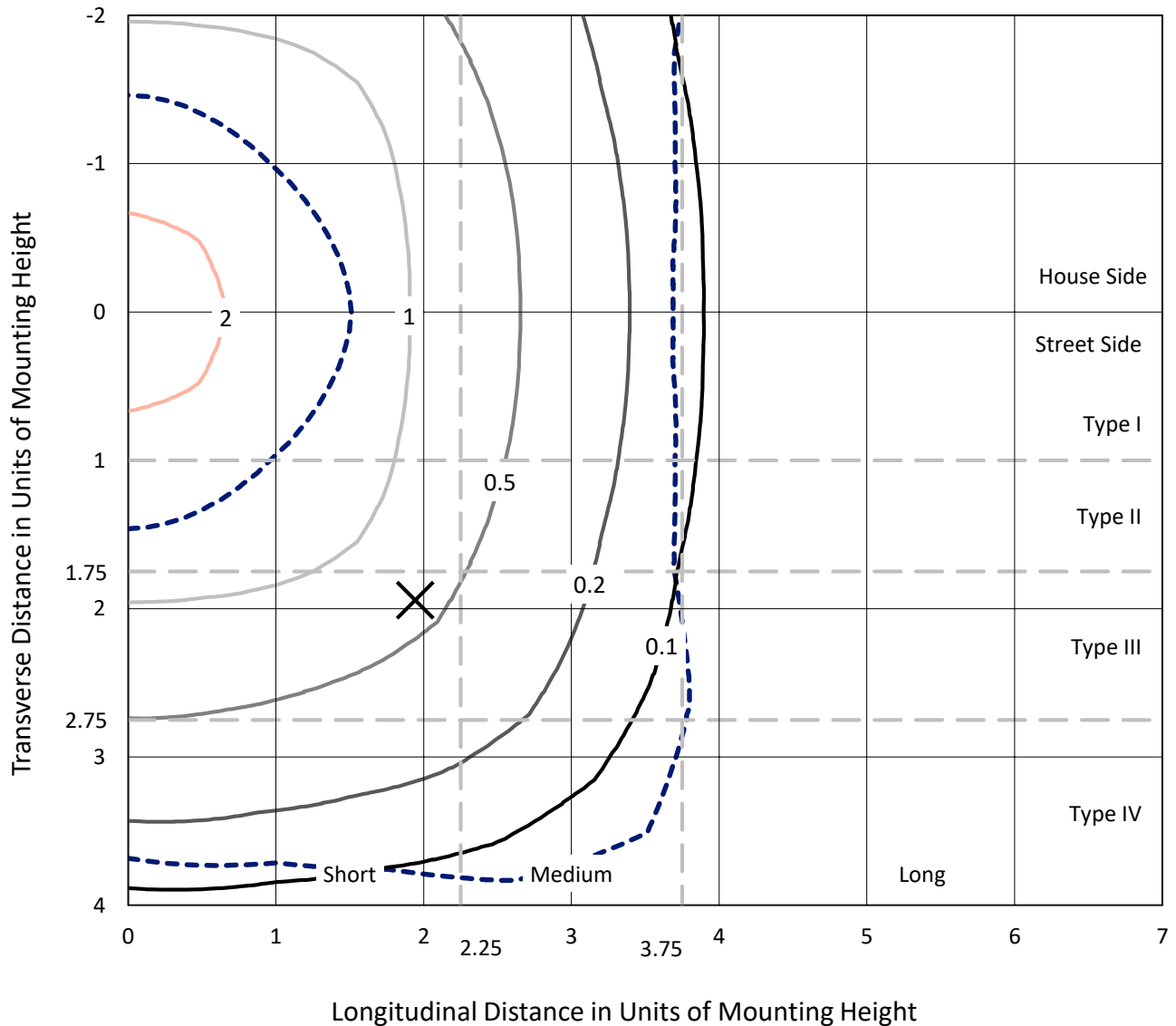
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

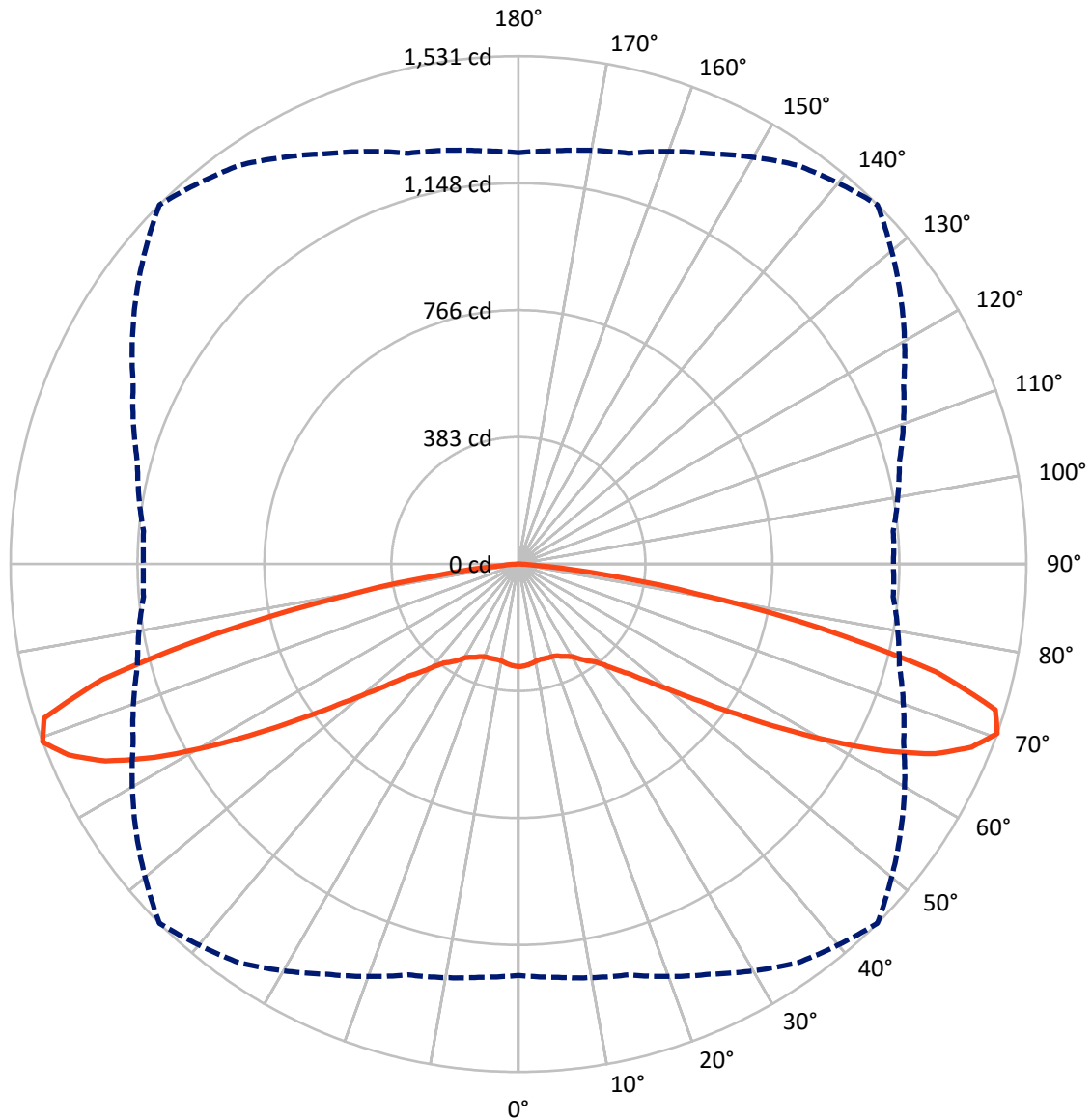
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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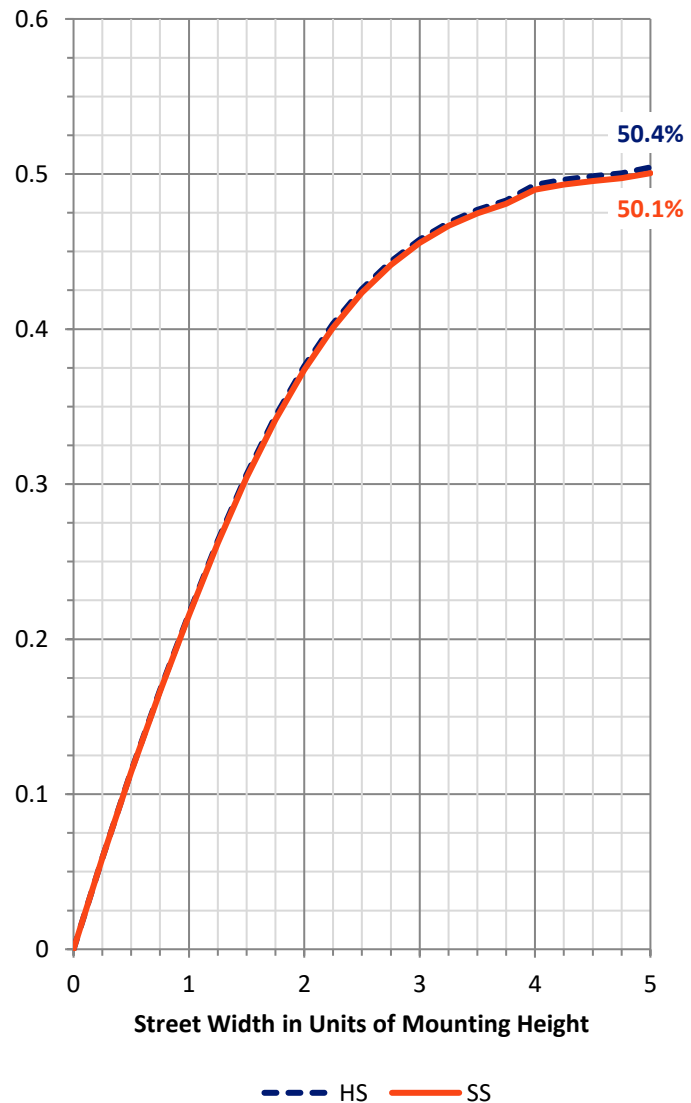
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1880.5	0.0	1880.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1880.5	0.0	1880.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3761.0	0.0	3761.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	0.8
10°-20°	84.4	2.2
20°-30°	143.9	3.8
30°-40°	224.8	6.0
40°-50°	381.0	10.1
50°-60°	694.8	18.5
60°-70°	1196.1	31.8
70°-80°	937.6	24.9
80°-90°	69.5	1.8
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°	3761.0	100.0
0°-180°	3761.0	100.0



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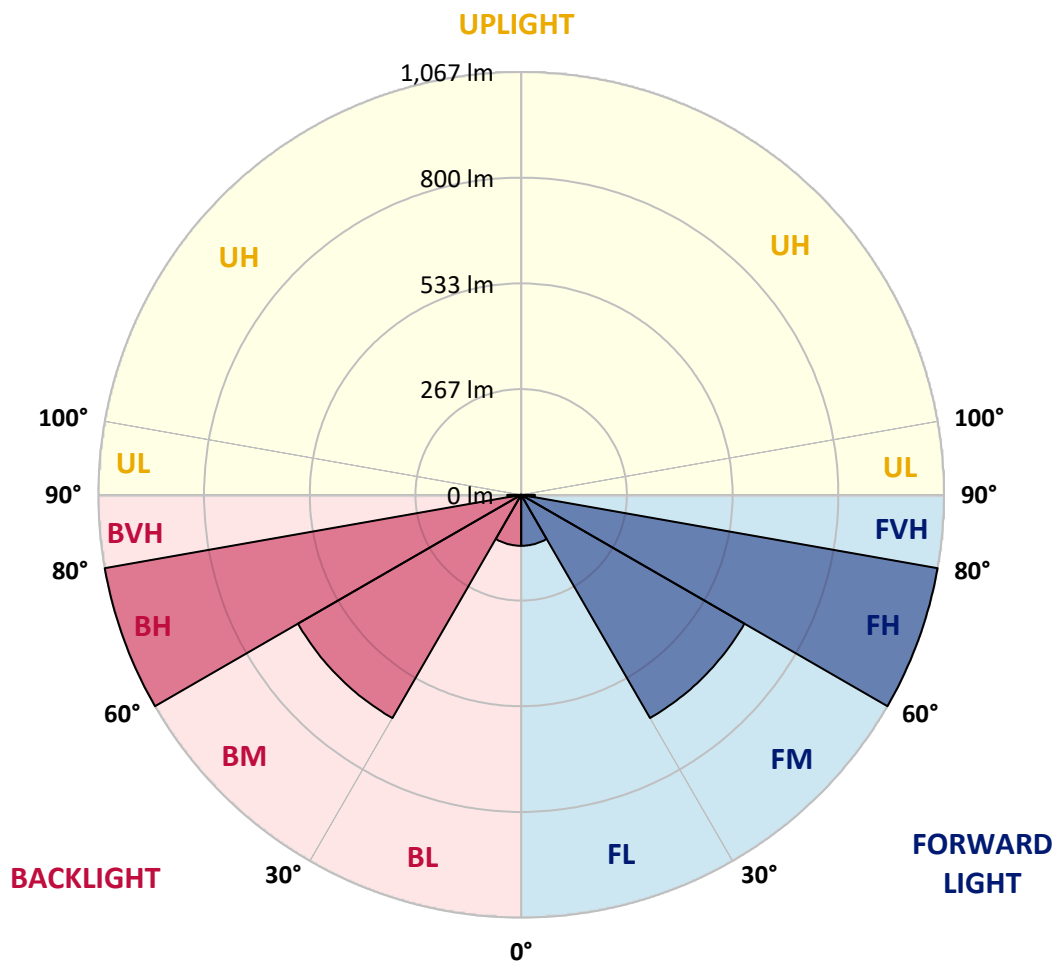
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	128.6	3.4			
FM (30°-60°)	650.3	17.3			
FH (60°-80°)	1066.9	28.4			G1/1800
FVH (80°-90°)	34.8	0.9			G1/100
BL (0°-30°)	128.6	3.4	B1/500		
BM (30°-60°)	650.3	17.3	B1/1000		
BH (60°-80°)	1066.9	28.4	B3/2500		G1/1800
BVH (80°-90°)	34.8	0.9			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°	309.5	309.5	309.5	309.5	309.5	309.5	309.5	309.5	309.5	309.5	309.5
2.5°	308.2	308.5	308.2	308.4	307.8	308.0	308.0	308.0	307.9	308.0	307.8
5°	305.4	305.7	305.2	305.4	305.1	305.4	305.5	305.4	305.2	305.3	304.8
7.5°	301.3	301.6	301.2	301.6	301.1	301.7	301.6	301.2	300.8	300.8	300.3
10°	299.1	299.2	298.2	297.8	296.7	297.0	297.3	297.7	298.1	298.8	298.7
12.5°	299.2	299.2	297.7	296.1	294.5	294.9	295.5	296.8	298.3	299.7	299.8
15°	300.4	300.3	298.1	295.5	294.4	295.5	295.8	296.7	299.1	301.4	301.6
17.5°	301.3	301.3	297.8	294.9	294.7	296.5	296.3	296.7	299.3	302.8	302.9
20°	302.9	302.9	298.5	295.2	295.2	297.1	297.2	297.8	300.4	304.3	304.9
22.5°	306.5	306.7	301.9	299.3	299.6	300.7	301.1	302.1	304.4	308.7	309.4
25°	311.6	311.9	307.0	305.5	306.4	308.5	308.3	309.0	311.6	315.8	316.5
27.5°	318.7	318.1	313.6	313.0	313.9	315.4	315.3	315.4	317.5	321.2	322.1
30°	327.9	327.7	324.5	324.8	324.5	324.0	324.1	325.1	326.2	329.2	330.1
32.5°	336.9	337.1	335.2	337.0	339.8	341.6	338.8	336.0	334.8	336.4	337.1
35°	353.1	353.7	350.6	349.3	353.1	358.5	350.5	346.0	348.5	350.6	351.2
37.5°	380.6	380.9	375.7	370.7	368.0	373.2	365.1	365.5	374.2	378.2	378.1
40°	411.9	412.0	408.6	404.2	399.5	400.7	397.5	398.5	404.2	407.8	408.8
42.5°	449.2	448.9	443.4	437.2	435.8	437.1	431.6	430.8	437.4	443.9	444.0
45°	497.6	496.8	489.7	482.8	476.2	473.5	472.1	475.7	484.8	490.8	490.9
47.5°	549.8	547.4	543.7	538.2	532.5	529.7	527.5	529.2	535.8	538.2	538.4
50°	603.4	603.9	604.6	602.5	600.4	599.5	593.7	590.3	592.3	588.0	587.3
52.5°	667.0	668.0	675.2	681.3	684.9	686.7	675.7	664.1	657.6	649.2	646.7
55°	742.0	743.6	754.2	771.1	788.5	797.7	777.7	756.0	736.0	720.2	715.1
57.5°	825.6	828.4	843.0	875.5	911.2	932.9	899.1	859.8	821.1	798.3	794.4
60°	923.6	926.4	946.5	993.0	1050.9	1083.6	1032.3	968.0	919.9	898.1	890.8
62.5°	1040.3	1040.6	1065.3	1119.7	1196.1	1241.6	1172.2	1086.2	1036.6	1010.3	1003.2
65°	1165.8	1166.5	1192.1	1250.8	1329.8	1379.3	1301.0	1211.4	1150.7	1112.0	1106.5
67.5°	1254.5	1257.2	1284.2	1354.8	1428.7	1473.4	1392.3	1291.0	1220.8	1174.7	1170.1
70°	1240.4	1250.6	1282.3	1364.8	1467.5	1531.2	1407.1	1281.5	1189.0	1134.5	1130.6
72.5°	1081.7	1101.3	1143.6	1251.8	1416.2	1503.9	1326.3	1147.8	1043.0	996.6	989.7
75°	736.6	768.4	832.2	988.3	1209.9	1302.1	1116.6	915.2	816.6	752.4	747.7
77.5°	328.4	335.7	416.5	596.3	834.9	935.1	811.3	598.7	449.4	358.4	339.3
80°	91.6	92.7	123.7	222.1	417.9	549.4	448.6	233.3	131.1	92.4	87.1
82.5°	29.1	31.6	38.6	57.6	140.5	250.7	144.2	62.2	44.3	35.3	31.8
85°	14.2	14.1	19.5	23.4	35.8	55.5	38.2	28.9	25.3	16.8	15.2
87.5°	6.0	6.1	9.1	8.2	10.5	9.0	12.3	12.9	13.6	7.5	6.5
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)