

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: P348711

Luminaire Tested: **ARCH-N-PA1-30-740-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348711
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-PA1-30-740-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4497 lumens
Efficiency: N/A
Efficacy: 145.1 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

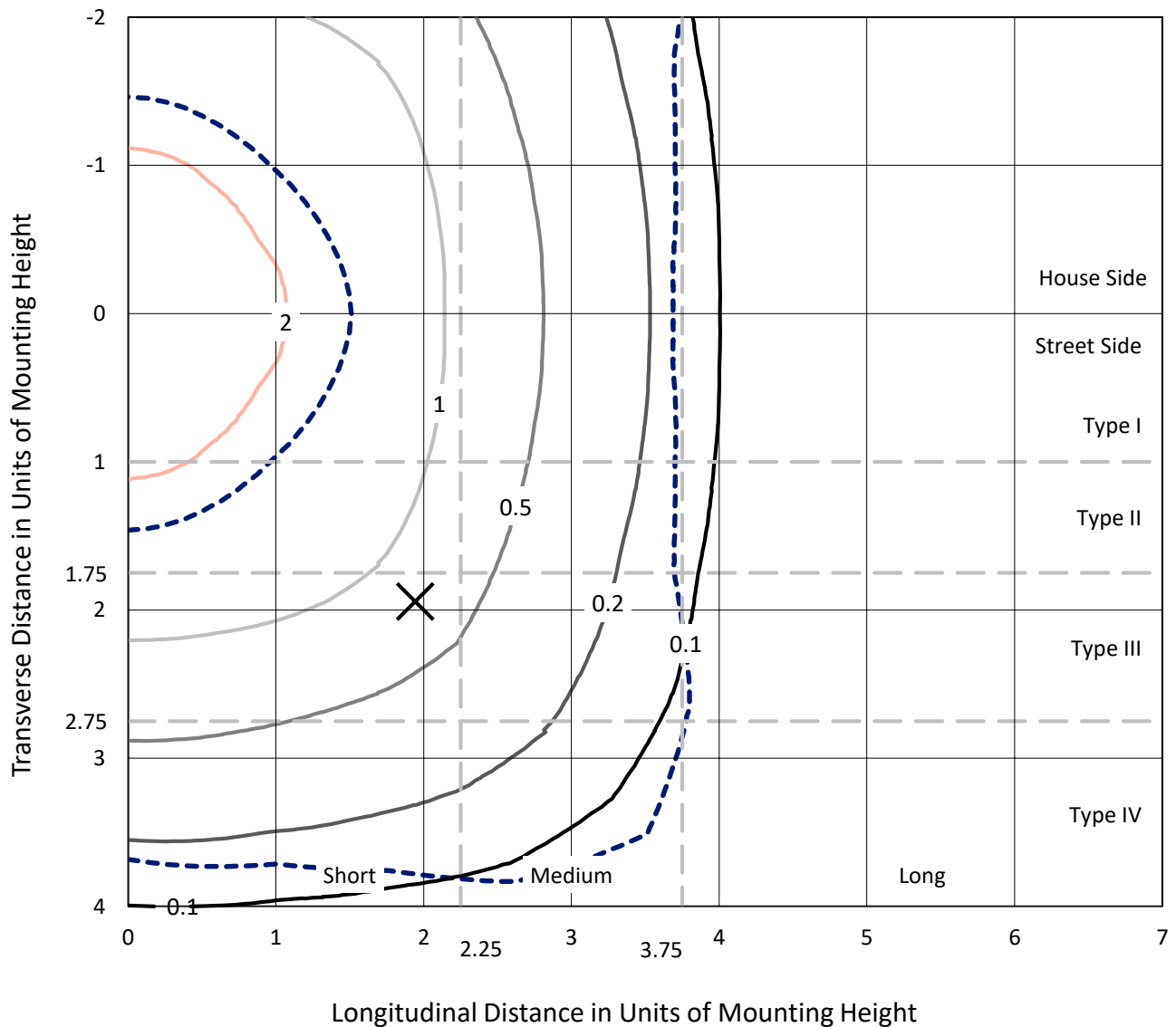
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

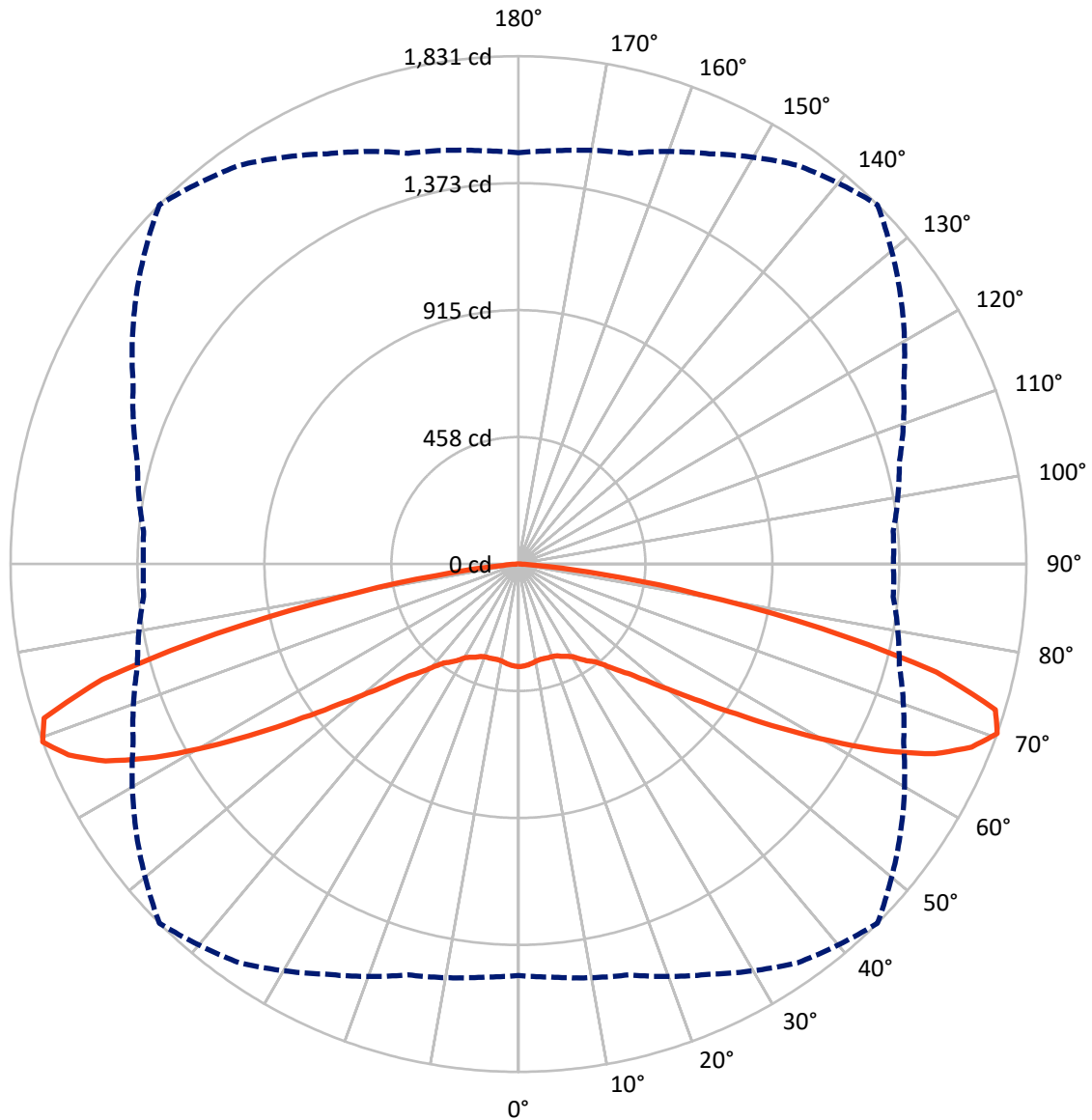
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.7 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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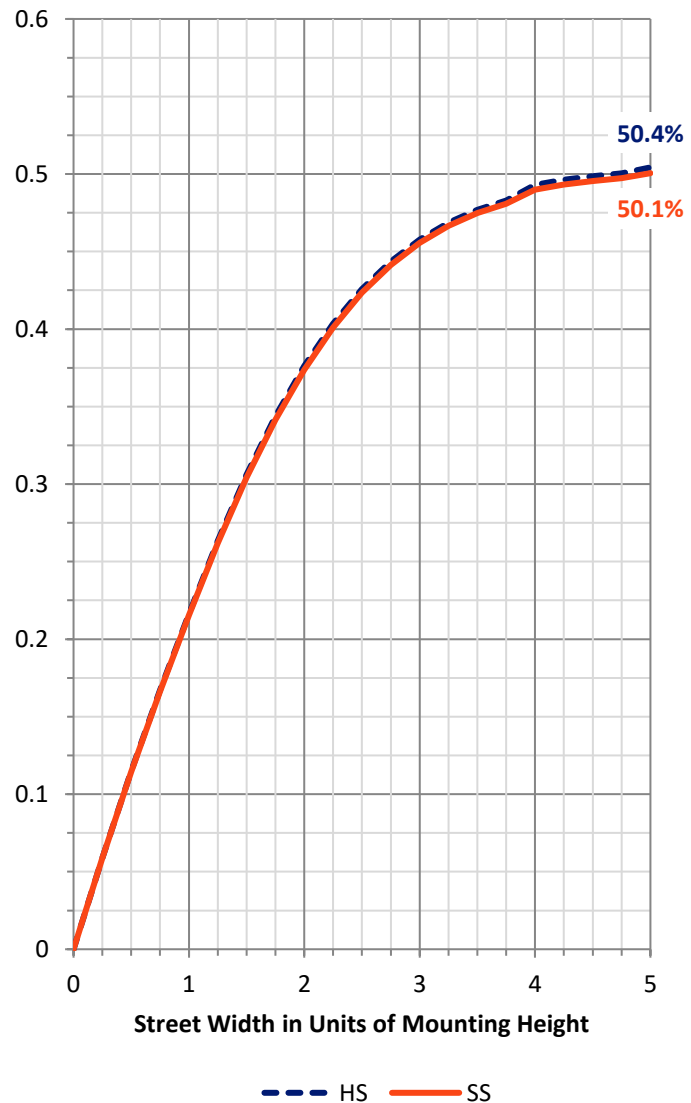
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2248.5	0.0	2248.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2248.5	0.0	2248.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4497.0	0.0	4497.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.5	0.8
10°-20°	100.9	2.2
20°-30°	172.0	3.8
30°-40°	268.8	6.0
40°-50°	455.6	10.1
50°-60°	830.8	18.5
60°-70°	1430.2	31.8
70°-80°	1121.1	24.9
80°-90°	83.1	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°	4497.0	100.0
0°-180°	4497.0	100.0



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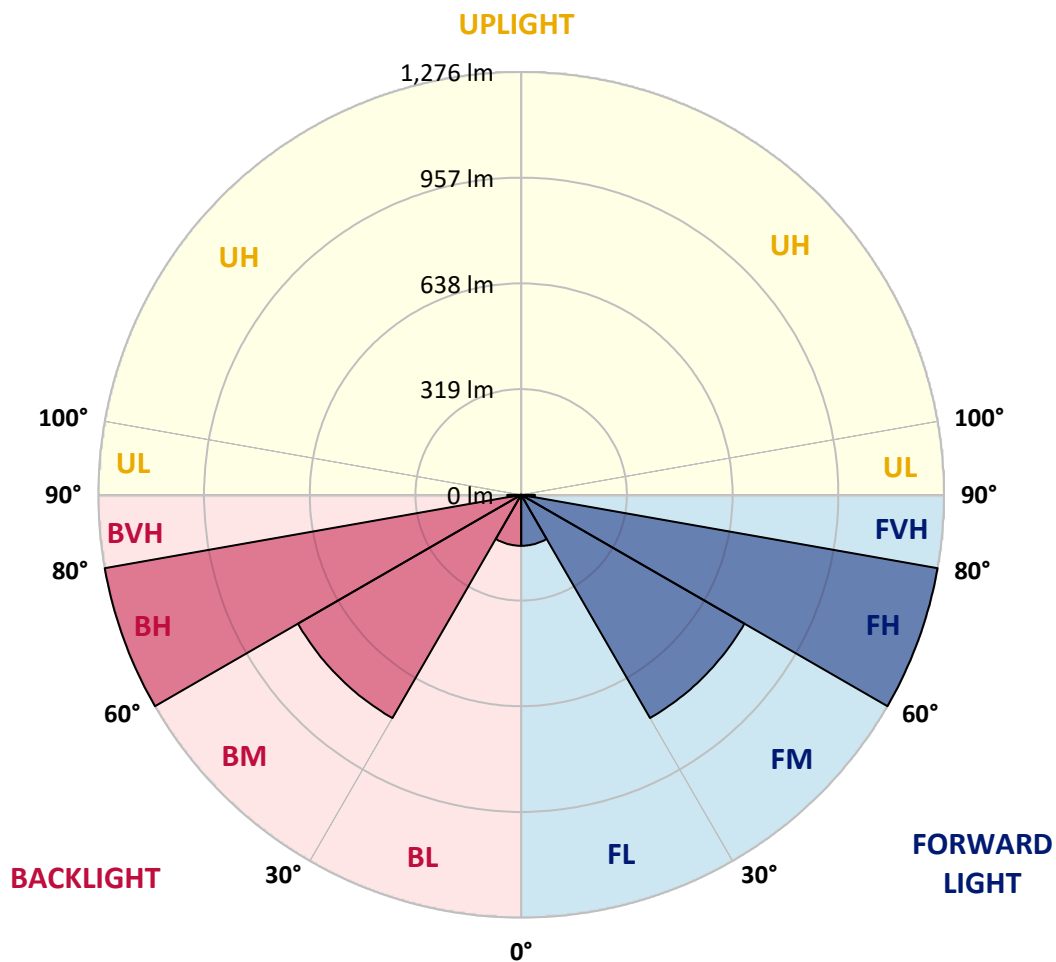
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	153.7	3.4			
FM (30°-60°)	777.6	17.3			
FH (60°-80°)	1275.6	28.4			G1/1800
FVH (80°-90°)	41.6	0.9			G1/100
BL (0°-30°)	153.7	3.4	B1/500		
BM (30°-60°)	777.6	17.3	B1/1000		
BH (60°-80°)	1275.6	28.4	B3/2500		G1/1800
BVH (80°-90°)	41.6	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°	370.1	370.1	370.1	370.1	370.1	370.1	370.1	370.1	370.1	370.1	370.1
2.5°	368.5	368.9	368.5	368.8	368.0	368.3	368.3	368.3	368.2	368.3	368.0
5°	365.2	365.5	364.9	365.2	364.7	365.2	365.3	365.2	364.9	365.0	364.5
7.5°	360.3	360.6	360.1	360.6	360.0	360.7	360.6	360.1	359.7	359.7	359.1
10°	357.6	357.8	356.6	356.1	354.8	355.1	355.5	356.0	356.4	357.3	357.2
12.5°	357.8	357.8	356.0	354.0	352.1	352.6	353.3	354.9	356.7	358.4	358.5
15°	359.2	359.1	356.4	353.3	352.0	353.3	353.7	354.8	357.6	360.4	360.6
17.5°	360.3	360.3	356.1	352.6	352.4	354.5	354.3	354.8	357.9	362.1	362.2
20°	362.2	362.2	356.9	353.0	353.0	355.2	355.4	356.1	359.2	363.9	364.6
22.5°	366.5	366.7	361.0	357.9	358.2	359.5	360.0	361.2	364.0	369.1	370.0
25°	372.6	372.9	367.1	365.3	366.4	368.9	368.6	369.5	372.6	377.5	378.4
27.5°	381.1	380.4	375.0	374.3	375.3	377.1	376.9	377.1	379.6	384.1	385.1
30°	392.1	391.8	388.0	388.4	388.0	387.4	387.5	388.7	390.0	393.6	394.6
32.5°	402.8	403.1	400.7	403.0	406.3	408.5	405.1	401.8	400.3	402.2	403.1
35°	422.2	422.9	419.2	417.7	422.2	428.7	419.0	413.7	416.7	419.2	419.9
37.5°	455.0	455.5	449.2	443.3	440.0	446.3	436.6	437.0	447.5	452.2	452.1
40°	492.5	492.7	488.5	483.3	477.7	479.1	475.3	476.5	483.3	487.6	488.8
42.5°	537.2	536.7	530.2	522.7	521.1	522.6	516.0	515.1	523.0	530.8	530.9
45°	595.0	594.0	585.5	577.3	569.4	566.2	564.5	568.8	579.7	586.8	587.0
47.5°	657.4	654.5	650.1	643.5	636.7	633.4	630.7	632.8	640.7	643.5	643.8
50°	721.5	722.1	723.0	720.4	717.9	716.9	709.9	705.8	708.2	703.0	702.3
52.5°	797.5	798.7	807.3	814.6	818.9	821.1	807.9	794.1	786.3	776.2	773.2
55°	887.2	889.1	901.8	922.0	942.8	953.8	929.9	904.0	880.0	861.1	855.0
57.5°	987.1	990.6	1008.0	1046.8	1089.5	1115.5	1075.1	1028.0	981.8	954.6	949.8
60°	1104.4	1107.6	1131.7	1187.4	1256.5	1295.7	1234.4	1157.5	1099.9	1073.9	1065.1
62.5°	1243.9	1244.2	1273.8	1338.8	1430.1	1484.6	1401.6	1298.8	1239.4	1208.0	1199.6
65°	1394.0	1394.7	1425.4	1495.6	1590.0	1649.3	1555.5	1448.4	1375.8	1329.6	1323.0
67.5°	1500.1	1503.2	1535.5	1619.9	1708.3	1761.7	1664.7	1543.6	1459.7	1404.5	1399.0
70°	1483.1	1495.3	1533.2	1631.8	1754.7	1830.9	1682.4	1532.3	1421.7	1356.5	1351.9
72.5°	1293.4	1316.8	1367.4	1496.8	1693.3	1798.2	1585.9	1372.4	1247.2	1191.7	1183.4
75°	880.8	918.7	995.0	1181.7	1446.6	1556.9	1335.1	1094.2	976.4	899.7	894.0
77.5°	392.7	401.3	498.0	713.0	998.3	1118.0	970.0	715.8	537.3	428.6	405.7
80°	109.5	110.8	147.9	265.5	499.7	656.9	536.4	278.9	156.8	110.5	104.1
82.5°	34.8	37.8	46.1	68.9	167.9	299.7	172.4	74.4	53.0	42.2	38.1
85°	17.0	16.8	23.4	28.0	42.8	66.3	45.7	34.5	30.2	20.1	18.1
87.5°	7.1	7.3	10.9	9.8	12.5	10.7	14.7	15.5	16.2	8.9	7.7
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)