

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: P348733

Luminaire Tested: **ARCH-N-PA1-40-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348733
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-PA1-40-827-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4175 lumens
Efficiency: N/A
Efficacy: 101.8 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

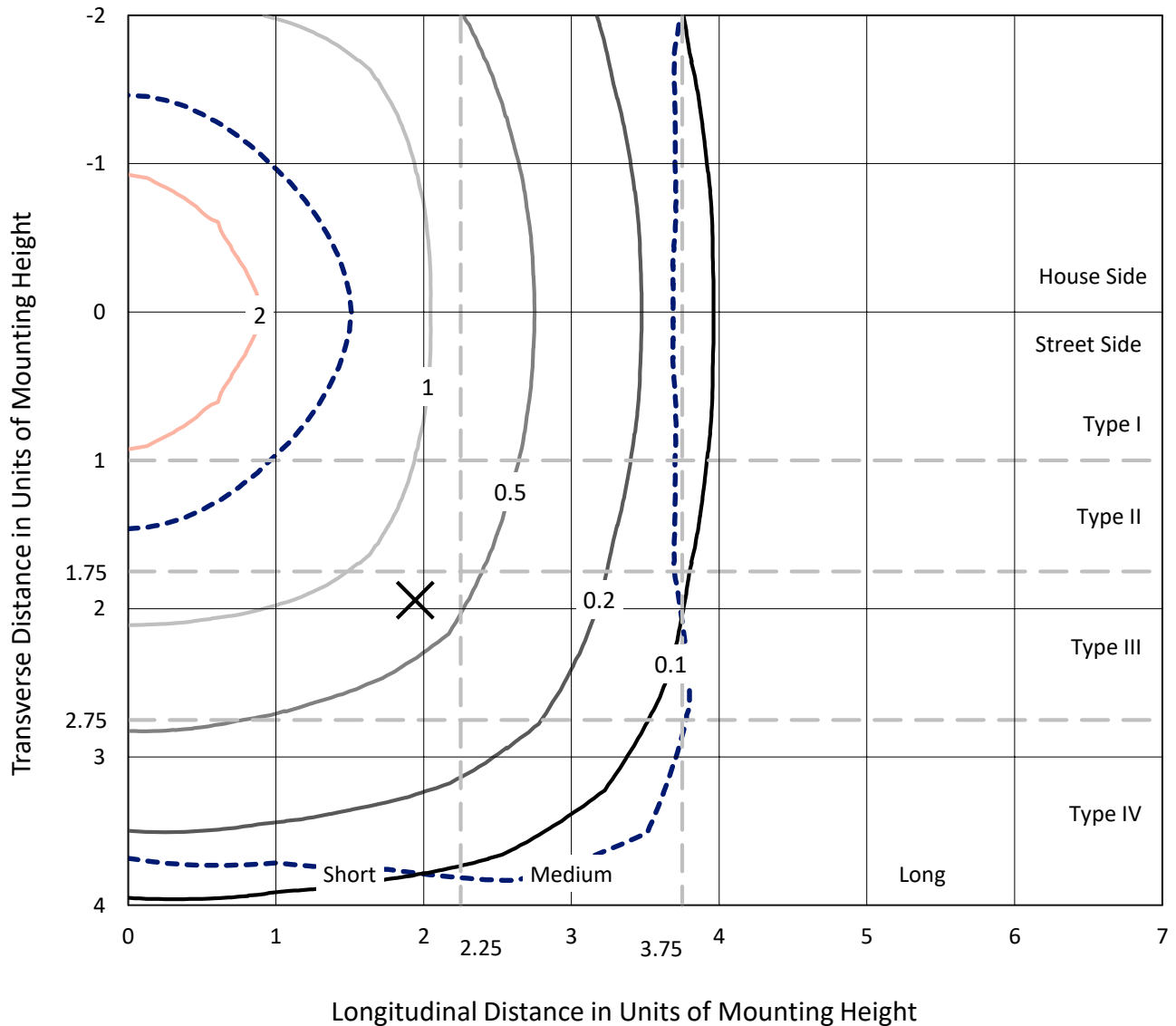
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

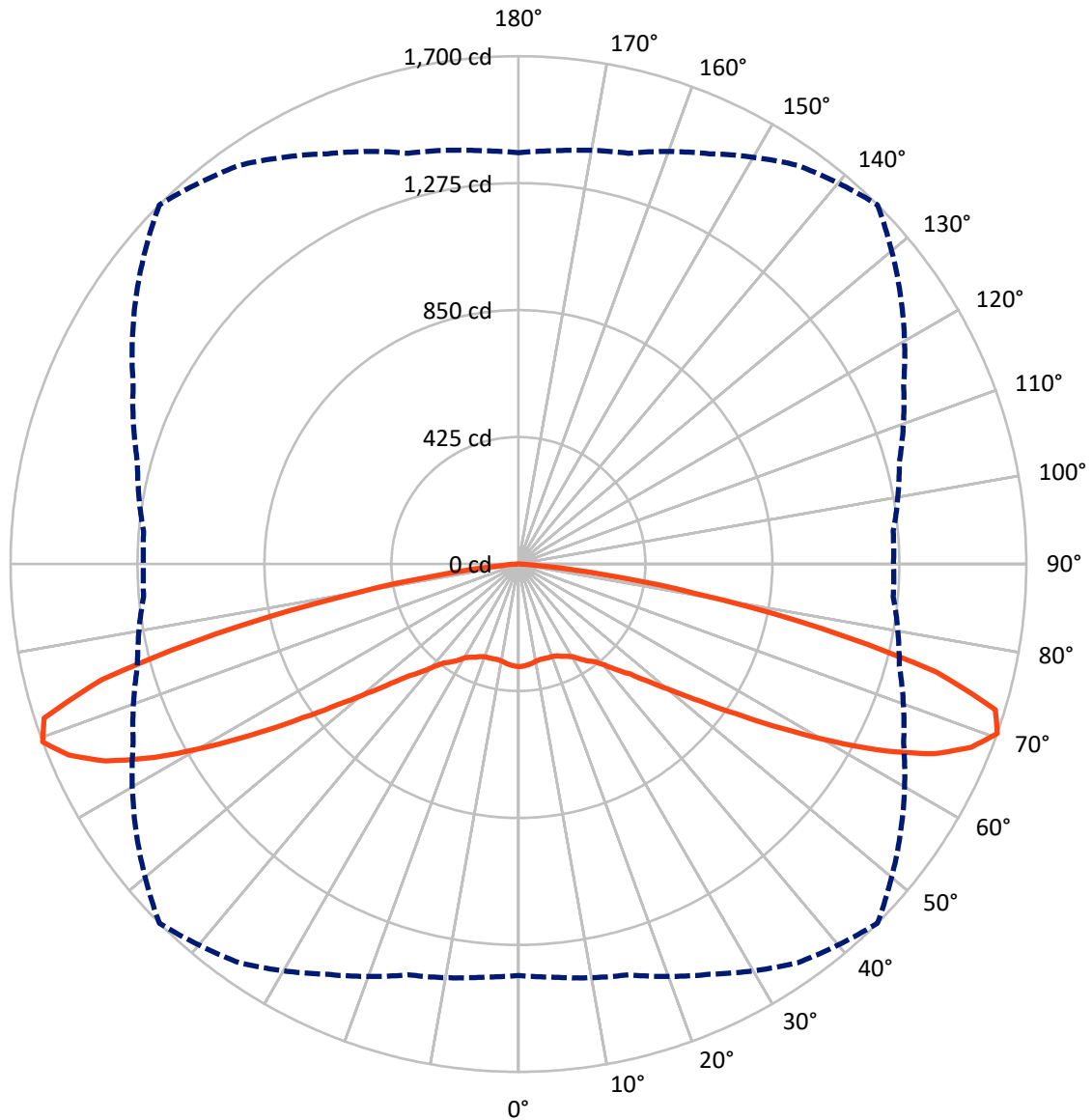


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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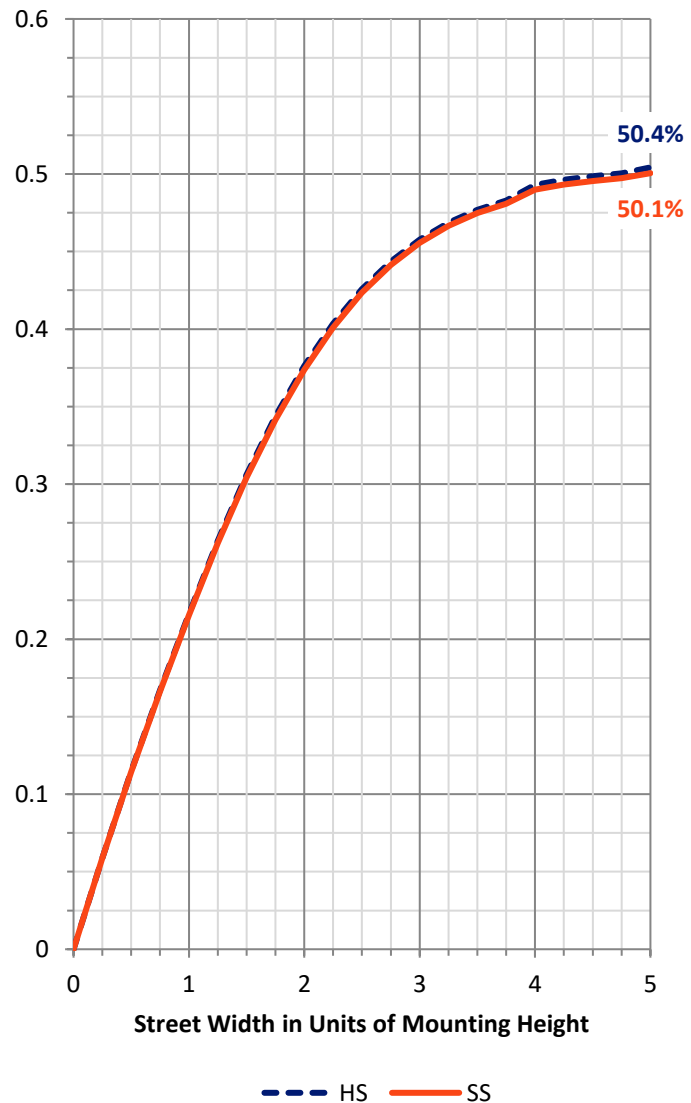
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2087.5	0.0	2087.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2087.5	0.0	2087.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4175.0	0.0	4175.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	0.8
10°-20°	93.7	2.2
20°-30°	159.7	3.8
30°-40°	249.6	6.0
40°-50°	422.9	10.1
50°-60°	771.3	18.5
60°-70°	1327.8	31.8
70°-80°	1040.8	24.9
80°-90°	77.2	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°	4175.0	100.0
0°-180°	4175.0	100.0



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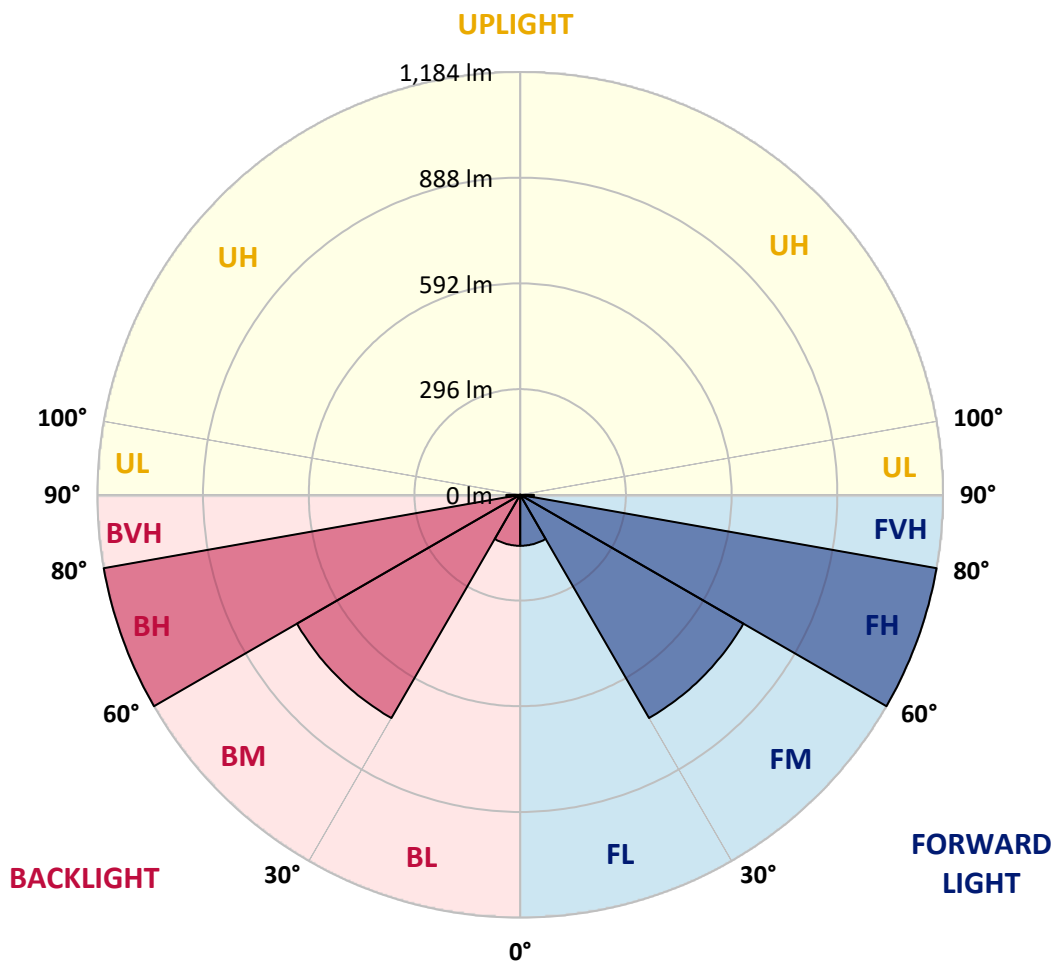
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	142.7	3.4			
FM (30°-60°)	721.9	17.3			
FH (60°-80°)	1184.3	28.4			G1/1800
FVH (80°-90°)	38.6	0.9			G1/100
BL (0°-30°)	142.7	3.4	B1/500		
BM (30°-60°)	721.9	17.3	B1/1000		
BH (60°-80°)	1184.3	28.4	B3/2500		G1/1800
BVH (80°-90°)	38.6	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°	343.6	343.6	343.6	343.6	343.6	343.6	343.6	343.6	343.6	343.6	343.6
2.5°	342.1	342.5	342.1	342.4	341.7	341.9	341.9	341.9	341.8	341.9	341.7
5°	339.0	339.3	338.8	339.0	338.6	339.0	339.2	339.0	338.8	338.9	338.4
7.5°	334.5	334.8	334.4	334.8	334.2	334.9	334.8	334.4	333.9	333.9	333.4
10°	332.0	332.1	331.0	330.6	329.4	329.7	330.1	330.5	330.9	331.7	331.6
12.5°	332.1	332.1	330.5	328.7	326.9	327.3	328.0	329.5	331.2	332.7	332.8
15°	333.5	333.4	330.9	328.0	326.8	328.0	328.4	329.4	332.0	334.6	334.8
17.5°	334.5	334.5	330.6	327.3	327.2	329.1	329.0	329.4	332.3	336.1	336.3
20°	336.3	336.3	331.3	327.7	327.7	329.8	329.9	330.6	333.5	337.8	338.5
22.5°	340.3	340.4	335.2	332.3	332.6	333.8	334.2	335.3	337.9	342.6	343.5
25°	346.0	346.2	340.8	339.2	340.2	342.5	342.2	343.1	346.0	350.5	351.3
27.5°	353.8	353.1	348.2	347.5	348.4	350.1	350.0	350.1	352.4	356.6	357.6
30°	364.0	363.8	360.2	360.6	360.2	359.6	359.8	360.9	362.1	365.4	366.4
32.5°	374.0	374.3	372.1	374.1	377.2	379.2	376.1	373.0	371.6	373.4	374.3
35°	391.9	392.6	389.2	387.8	391.9	398.0	389.0	384.1	386.8	389.2	389.9
37.5°	422.5	422.9	417.1	411.6	408.5	414.3	405.3	405.7	415.4	419.8	419.7
40°	457.3	457.4	453.5	448.7	443.5	444.8	441.2	442.3	448.7	452.7	453.8
42.5°	498.7	498.3	492.2	485.3	483.8	485.2	479.1	478.3	485.6	492.8	492.9
45°	552.4	551.4	543.6	536.0	528.7	525.6	524.1	528.1	538.2	544.8	545.0
47.5°	610.3	607.7	603.5	597.4	591.1	588.0	585.6	587.5	594.8	597.4	597.7
50°	669.8	670.4	671.2	668.8	666.5	665.5	659.0	655.3	657.5	652.7	652.0
52.5°	740.4	741.5	749.5	756.3	760.3	762.3	750.0	737.2	730.0	720.6	717.9
55°	823.7	825.4	837.2	856.0	875.3	885.5	863.3	839.3	817.0	799.5	793.8
57.5°	916.5	919.6	935.8	971.8	1011.5	1035.6	998.1	954.4	911.5	886.2	881.8
60°	1025.3	1028.3	1050.7	1102.3	1166.6	1202.9	1146.0	1074.6	1021.1	997.0	988.8
62.5°	1154.8	1155.1	1182.6	1242.9	1327.7	1378.3	1301.2	1205.8	1150.7	1121.5	1113.7
65°	1294.2	1294.9	1323.3	1388.5	1476.2	1531.2	1444.2	1344.7	1277.3	1234.4	1228.3
67.5°	1392.6	1395.5	1425.5	1504.0	1586.0	1635.6	1545.5	1433.1	1355.2	1304.0	1298.9
70°	1376.9	1388.2	1423.4	1515.0	1629.1	1699.8	1562.0	1422.6	1319.9	1259.4	1255.1
72.5°	1200.8	1222.5	1269.5	1389.6	1572.0	1669.4	1472.3	1274.1	1157.9	1106.4	1098.6
75°	817.7	852.9	923.8	1097.1	1343.1	1445.4	1239.5	1015.9	906.5	835.3	830.0
77.5°	364.6	372.6	462.4	661.9	926.8	1038.0	900.6	664.6	498.8	397.9	376.6
80°	101.6	102.9	137.3	246.5	463.9	609.9	498.0	258.9	145.6	102.6	96.7
82.5°	32.3	35.1	42.8	63.9	155.9	278.3	160.1	69.1	49.2	39.2	35.4
85°	15.7	15.6	21.7	26.0	39.8	61.6	42.4	32.0	28.0	18.6	16.8
87.5°	6.6	6.8	10.1	9.1	11.6	9.9	13.7	14.4	15.1	8.3	7.2
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)