

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: P348739

Luminaire Tested: **ARCH-N-PA1-30-830-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348739
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-PA1-30-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3574 lumens
Efficiency: N/A
Efficacy: 115.3 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

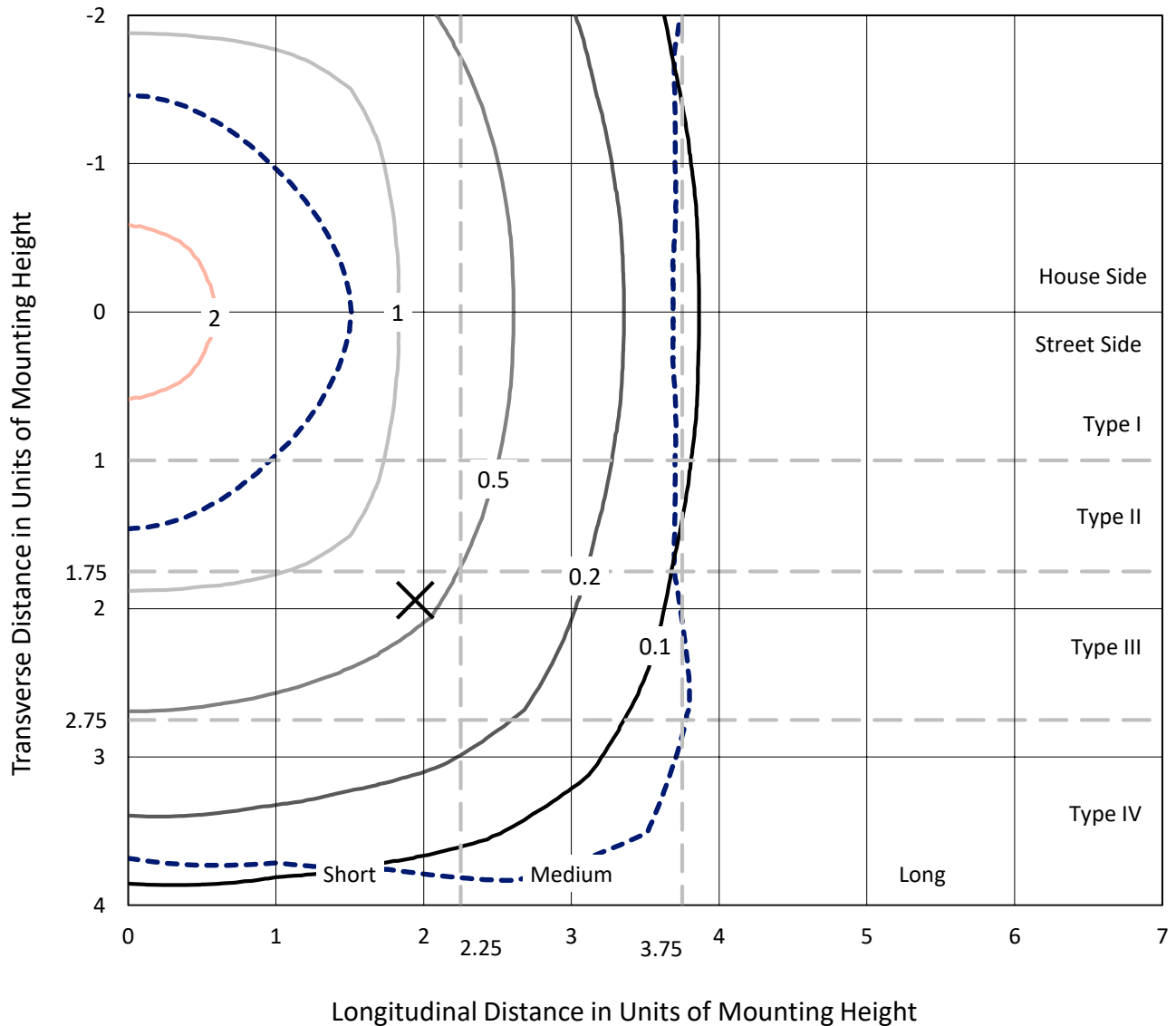
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

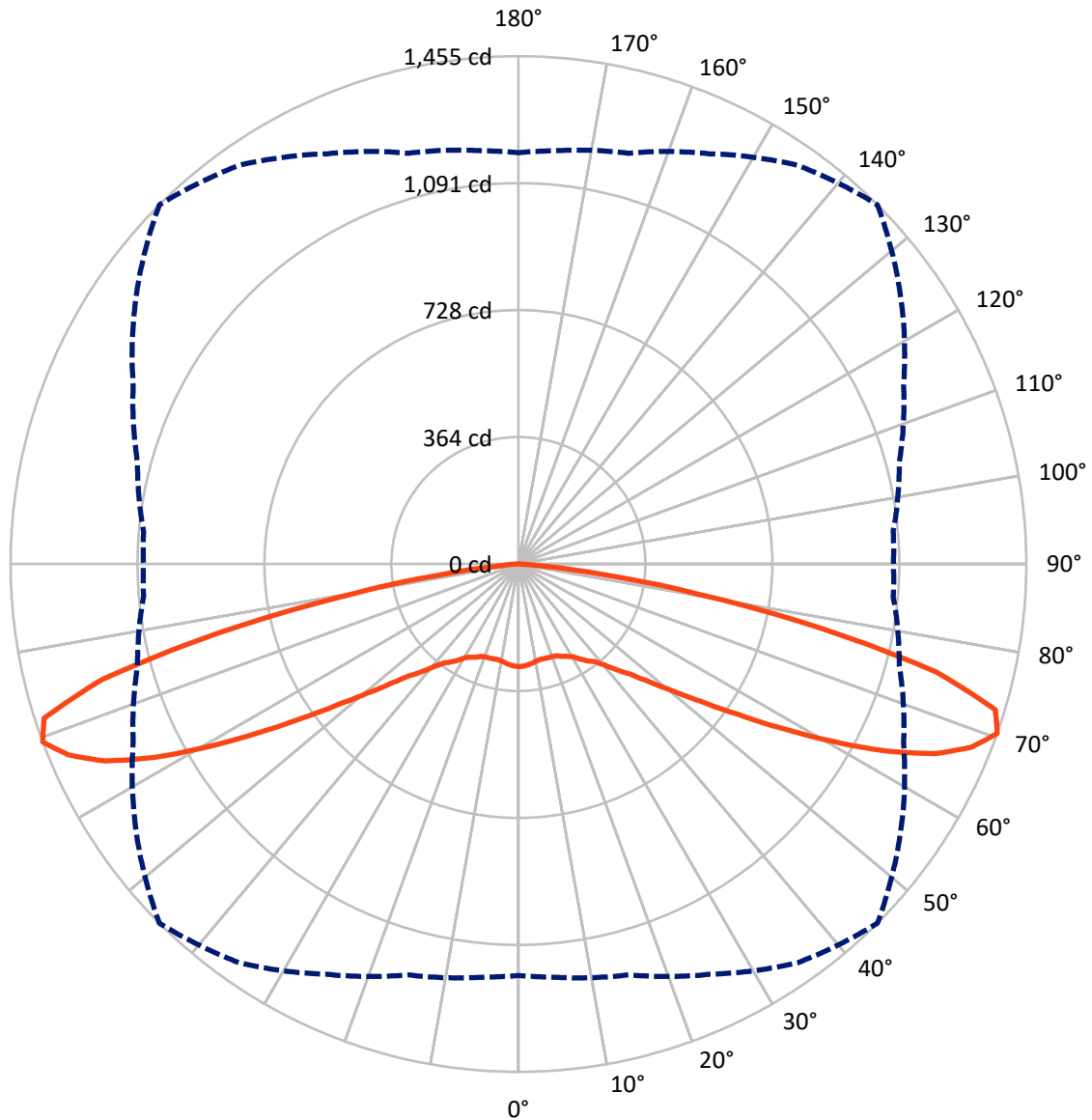


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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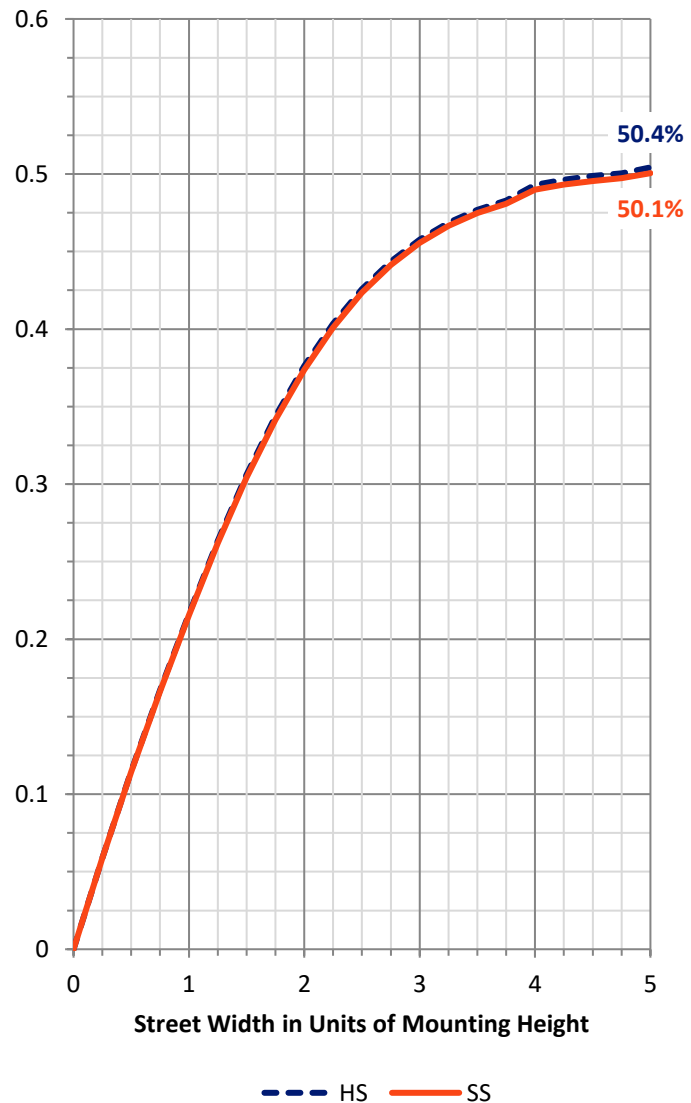
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1787.0	0.0	1787.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1787.0	0.0	1787.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3574.0	0.0	3574.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	0.8
10°-20°	80.2	2.2
20°-30°	136.7	3.8
30°-40°	213.6	6.0
40°-50°	362.1	10.1
50°-60°	660.2	18.5
60°-70°	1136.7	31.8
70°-80°	891.0	24.9
80°-90°	66.1	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°	3574.0	100.0
0°-180°	3574.0	100.0



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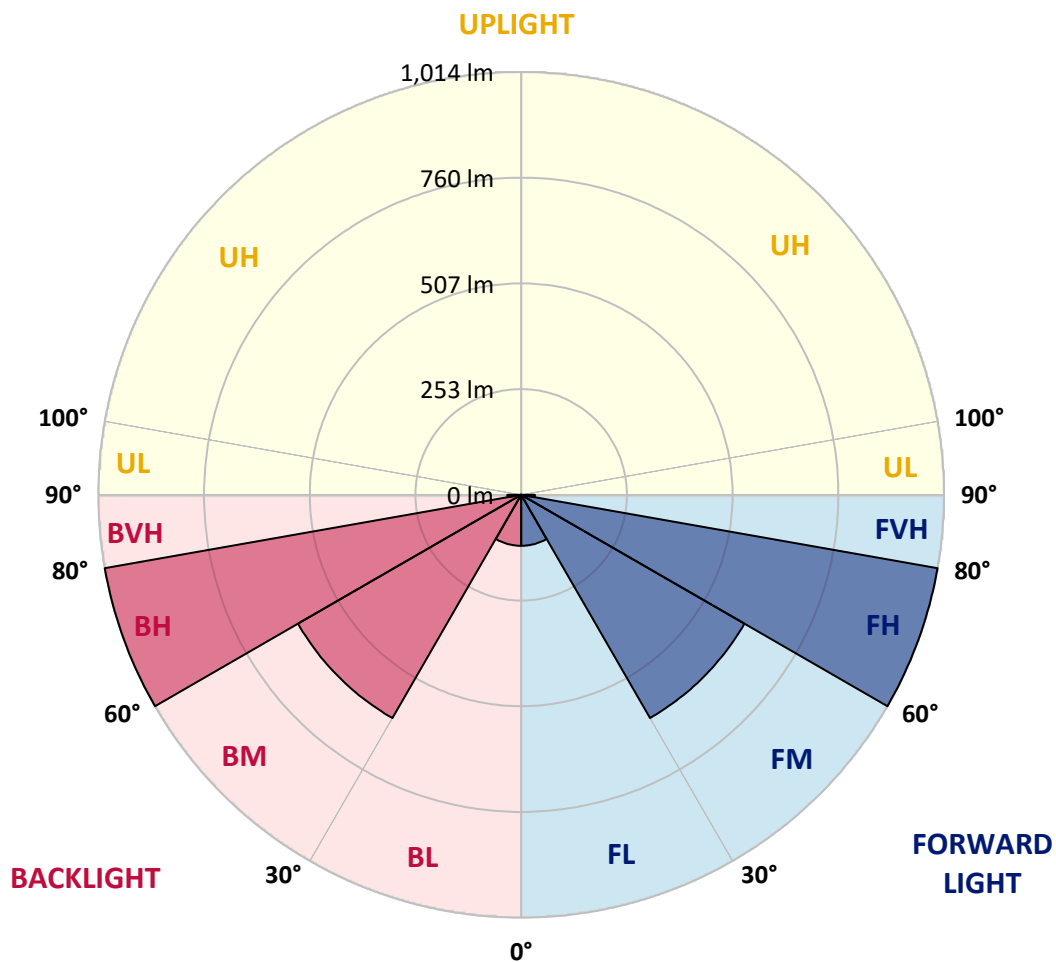
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	122.2	3.4			
FM (30°-60°)	618.0	17.3			
FH (60°-80°)	1013.8	28.4			G1/1800
FVH (80°-90°)	33.0	0.9			G1/100
BL (0°-30°)	122.2	3.4	B1/500		
BM (30°-60°)	618.0	17.3	B1/1000		
BH (60°-80°)	1013.8	28.4	B3/2500		G1/1800
BVH (80°-90°)	33.0	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°	294.1	294.1	294.1	294.1	294.1	294.1	294.1	294.1	294.1	294.1	294.1
2.5°	292.8	293.2	292.8	293.1	292.5	292.7	292.7	292.7	292.6	292.7	292.5
5°	290.2	290.5	290.0	290.2	289.9	290.2	290.4	290.2	290.0	290.1	289.6
7.5°	286.3	286.6	286.2	286.6	286.1	286.7	286.6	286.2	285.9	285.9	285.4
10°	284.2	284.3	283.4	283.0	282.0	282.2	282.6	282.9	283.3	284.0	283.9
12.5°	284.3	284.3	282.9	281.4	279.8	280.2	280.8	282.1	283.5	284.8	284.9
15°	285.5	285.4	283.3	280.8	279.7	280.8	281.1	282.0	284.2	286.5	286.6
17.5°	286.3	286.3	283.0	280.2	280.1	281.7	281.6	282.0	284.4	287.8	287.9
20°	287.9	287.9	283.6	280.5	280.5	282.3	282.4	283.0	285.5	289.2	289.8
22.5°	291.3	291.4	286.9	284.4	284.7	285.7	286.1	287.0	289.3	293.3	294.0
25°	296.2	296.4	291.8	290.4	291.2	293.2	293.0	293.7	296.2	300.1	300.8
27.5°	302.9	302.3	298.0	297.5	298.3	299.7	299.6	299.7	301.7	305.3	306.1
30°	311.6	311.4	308.3	308.7	308.3	307.9	308.0	308.9	310.0	312.8	313.6
32.5°	320.1	320.4	318.5	320.3	322.9	324.6	321.9	319.3	318.1	319.7	320.4
35°	335.5	336.1	333.2	332.0	335.5	340.7	333.0	328.8	331.1	333.2	333.7
37.5°	361.6	362.0	357.0	352.3	349.7	354.7	347.0	347.3	355.6	359.4	359.3
40°	391.4	391.6	388.2	384.1	379.6	380.8	377.7	378.7	384.1	387.5	388.5
42.5°	426.9	426.6	421.3	415.4	414.1	415.3	410.1	409.4	415.7	421.8	421.9
45°	472.9	472.1	465.3	458.8	452.6	450.0	448.7	452.1	460.7	466.4	466.5
47.5°	522.4	520.2	516.6	511.4	506.0	503.4	501.3	502.9	509.2	511.4	511.7
50°	573.4	573.9	574.6	572.6	570.5	569.7	564.2	561.0	562.9	558.7	558.1
52.5°	633.8	634.7	641.6	647.4	650.8	652.6	642.1	631.1	624.9	616.9	614.5
55°	705.1	706.6	716.7	732.8	749.3	758.1	739.0	718.4	699.4	684.4	679.6
57.5°	784.5	787.3	801.1	831.9	865.9	886.6	854.4	817.0	780.3	758.6	754.9
60°	877.7	880.3	899.4	943.7	998.6	1029.7	981.0	919.9	874.1	853.5	846.5
62.5°	988.6	988.8	1012.3	1064.0	1136.6	1179.9	1113.9	1032.2	985.0	960.1	953.4
65°	1107.9	1108.5	1132.8	1188.6	1263.7	1310.7	1236.3	1151.1	1093.5	1056.7	1051.5
67.5°	1192.2	1194.7	1220.3	1287.5	1357.7	1400.1	1323.0	1226.8	1160.1	1116.3	1111.9
70°	1178.7	1188.4	1218.5	1296.9	1394.6	1455.1	1337.1	1217.8	1129.9	1078.1	1074.4
72.5°	1028.0	1046.5	1086.7	1189.6	1345.7	1429.1	1260.4	1090.7	991.2	947.1	940.5
75°	700.0	730.1	790.8	939.2	1149.7	1237.3	1061.1	869.7	776.0	715.0	710.5
77.5°	312.1	319.0	395.8	566.6	793.4	888.6	770.9	568.9	427.0	340.6	322.4
80°	87.0	88.1	117.5	211.0	397.1	522.1	426.3	221.7	124.6	87.8	82.8
82.5°	27.7	30.0	36.6	54.7	133.5	238.2	137.0	59.1	42.1	33.6	30.3
85°	13.5	13.4	18.6	22.2	34.0	52.7	36.3	27.4	24.0	16.0	14.4
87.5°	5.7	5.8	8.6	7.8	9.9	8.5	11.7	12.3	12.9	7.1	6.1
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)