

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: P348731

Luminaire Tested: **ARCH-N-PA1-20-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348731
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-PA1-20-827-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2571 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

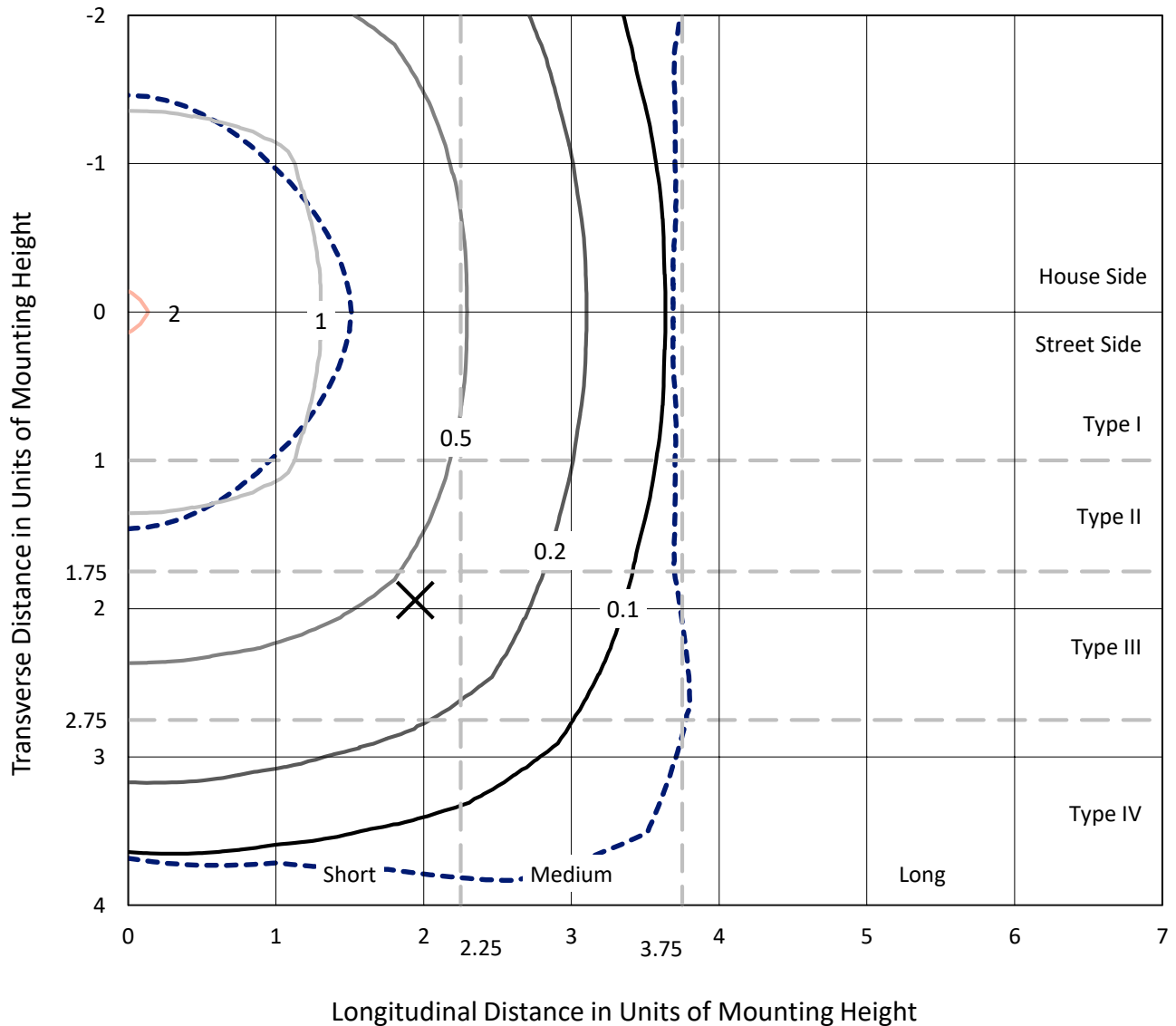
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348731
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

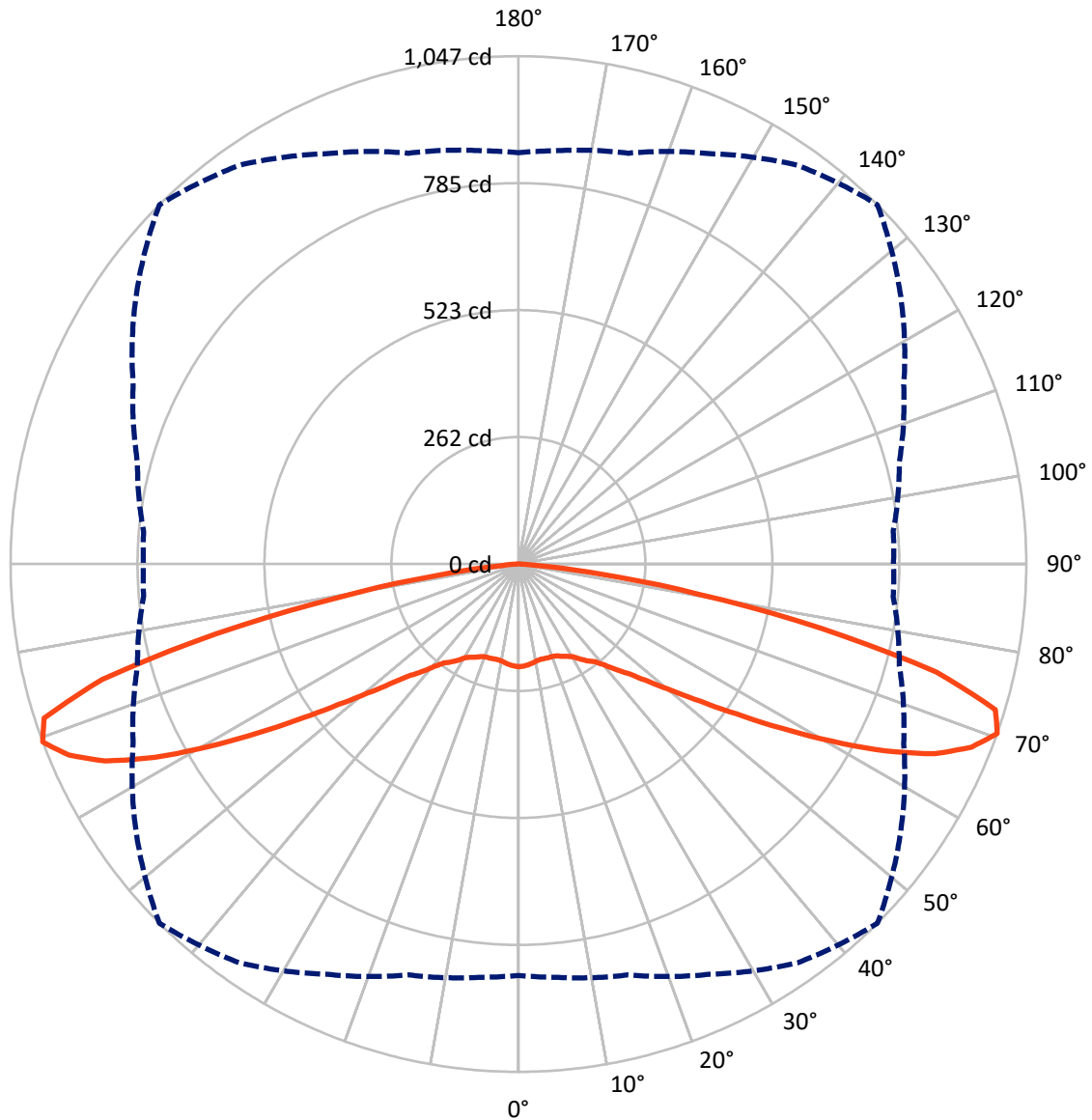


Based on 10 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P348731

CATALOG NUMBER: ARCH-N-PA1-20-827-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P348731

CATALOG NUMBER: ARCH-N-PA1-20-827-U-5WQ

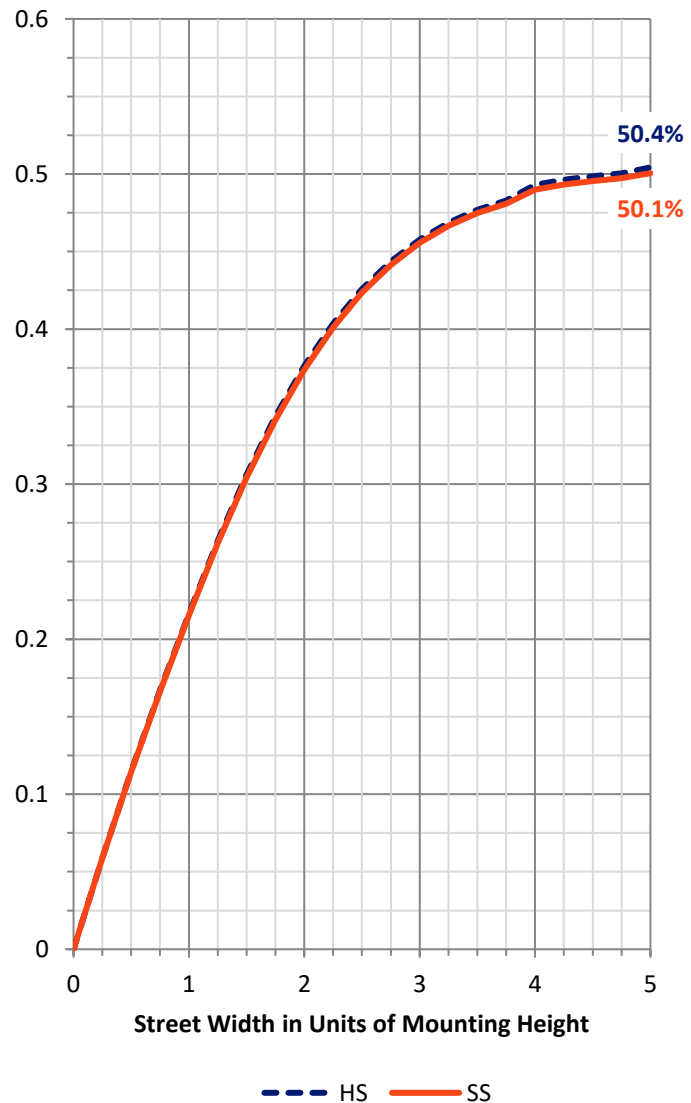
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1285.5	0.0	1285.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1285.5	0.0	1285.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2571.0	0.0	2571.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.7	0.8
10°-20°	57.7	2.2
20°-30°	98.4	3.8
30°-40°	153.7	6.0
40°-50°	260.4	10.1
50°-60°	475.0	18.5
60°-70°	817.7	31.8
70°-80°	640.9	24.9
80°-90°	47.5	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°	2571.0	100.0
0°-180°	2571.0	100.0



REPORT NUMBER: P348731

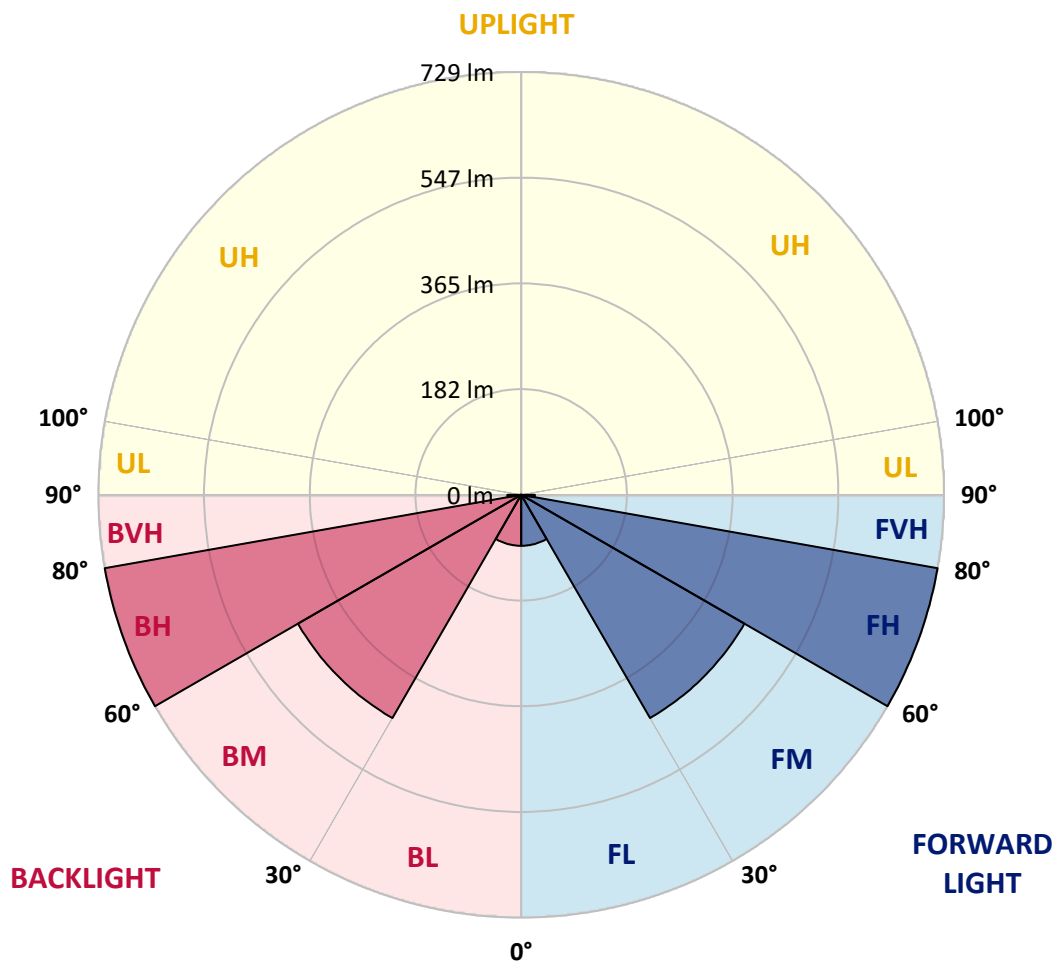
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	87.9	3.4			
FM (30°-60°)	444.5	17.3			
FH (60°-80°)	729.3	28.4			G1/1800
FVH (80°-90°)	23.8	0.9			G1/100
BL (0°-30°)	87.9	3.4	B0/110		
BM (30°-60°)	444.5	17.3	B1/1000		
BH (60°-80°)	729.3	28.4	B2/1000		G1/1800
BVH (80°-90°)	23.8	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





REPORT NUMBER: P348731

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	211.6	211.6	211.6	211.6	211.6	211.6	211.6	211.6	211.6	211.6	211.6
2.5°	210.7	210.9	210.7	210.8	210.4	210.6	210.6	210.6	210.5	210.6	210.4
5°	208.8	209.0	208.6	208.8	208.5	208.8	208.9	208.8	208.6	208.7	208.4
7.5°	206.0	206.2	205.9	206.2	205.8	206.2	206.2	205.9	205.6	205.6	205.3
10°	204.4	204.5	203.9	203.6	202.8	203.0	203.3	203.5	203.8	204.3	204.2
12.5°	204.5	204.5	203.5	202.4	201.3	201.6	202.0	202.9	203.9	204.9	205.0
15°	205.4	205.3	203.8	202.0	201.2	202.0	202.2	202.8	204.4	206.1	206.2
17.5°	206.0	206.0	203.6	201.6	201.5	202.7	202.6	202.8	204.6	207.0	207.1
20°	207.1	207.1	204.0	201.8	201.8	203.1	203.2	203.6	205.4	208.0	208.4
22.5°	209.6	209.6	206.4	204.6	204.8	205.6	205.8	206.5	208.1	211.0	211.5
25°	213.0	213.2	209.9	208.9	209.5	210.9	210.7	211.3	213.0	215.8	216.4
27.5°	217.9	217.5	214.4	214.0	214.6	215.6	215.5	215.6	217.0	219.6	220.2
30°	224.2	224.0	221.8	222.1	221.8	221.5	221.5	222.2	223.0	225.0	225.6
32.5°	230.3	230.5	229.1	230.4	232.3	233.5	231.6	229.7	228.9	230.0	230.5
35°	241.4	241.8	239.7	238.8	241.4	245.1	239.6	236.5	238.2	239.7	240.1
37.5°	260.2	260.4	256.8	253.4	251.6	255.1	249.6	249.9	255.8	258.5	258.5
40°	281.6	281.7	279.3	276.3	273.1	273.9	271.7	272.4	276.3	278.8	279.5
42.5°	307.1	306.8	303.1	298.9	297.9	298.8	295.0	294.5	299.0	303.4	303.5
45°	340.2	339.6	334.7	330.1	325.6	323.7	322.7	325.2	331.4	335.5	335.6
47.5°	375.8	374.2	371.6	367.9	364.0	362.1	360.6	361.8	366.3	367.9	368.1
50°	412.5	412.8	413.3	411.9	410.4	409.8	405.8	403.5	404.9	401.9	401.5
52.5°	455.9	456.6	461.5	465.7	468.2	469.5	461.9	454.0	449.6	443.8	442.1
55°	507.2	508.3	515.5	527.1	539.0	545.3	531.6	516.8	503.1	492.3	488.8
57.5°	564.4	566.3	576.3	598.5	622.9	637.8	614.6	587.8	561.3	545.7	543.0
60°	631.4	633.3	647.0	678.8	718.4	740.7	705.7	661.7	628.8	613.9	608.9
62.5°	711.2	711.3	728.2	765.4	817.6	848.8	801.3	742.5	708.6	690.7	685.8
65°	797.0	797.4	814.9	855.0	909.1	942.9	889.3	828.1	786.6	760.1	756.4
67.5°	857.6	859.4	877.8	926.1	976.7	1007.2	951.7	882.5	834.6	803.0	799.9
70°	847.9	854.9	876.6	933.0	1003.2	1046.7	961.9	876.1	812.8	775.5	772.9
72.5°	739.5	752.8	781.7	855.7	968.1	1028.0	906.7	784.6	713.0	681.3	676.5
75°	503.6	525.2	568.9	675.6	827.1	890.1	763.3	625.6	558.2	514.4	511.1
77.5°	224.5	229.5	284.7	407.6	570.7	639.2	554.6	409.2	307.2	245.0	231.9
80°	62.6	63.4	84.5	151.8	285.7	375.6	306.7	159.5	89.6	63.2	59.5
82.5°	19.9	21.6	26.4	39.4	96.0	171.4	98.6	42.5	30.3	24.2	21.8
85°	9.7	9.6	13.4	16.0	24.5	37.9	26.1	19.7	17.3	11.5	10.4
87.5°	4.1	4.2	6.2	5.6	7.1	6.1	8.4	8.8	9.3	5.1	4.4
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)