

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: P348695

Luminaire Tested: **ARCH-N-PA1-19-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348695
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-PA1-19-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2583 lumens
Efficiency: N/A
Efficacy: 135.9 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

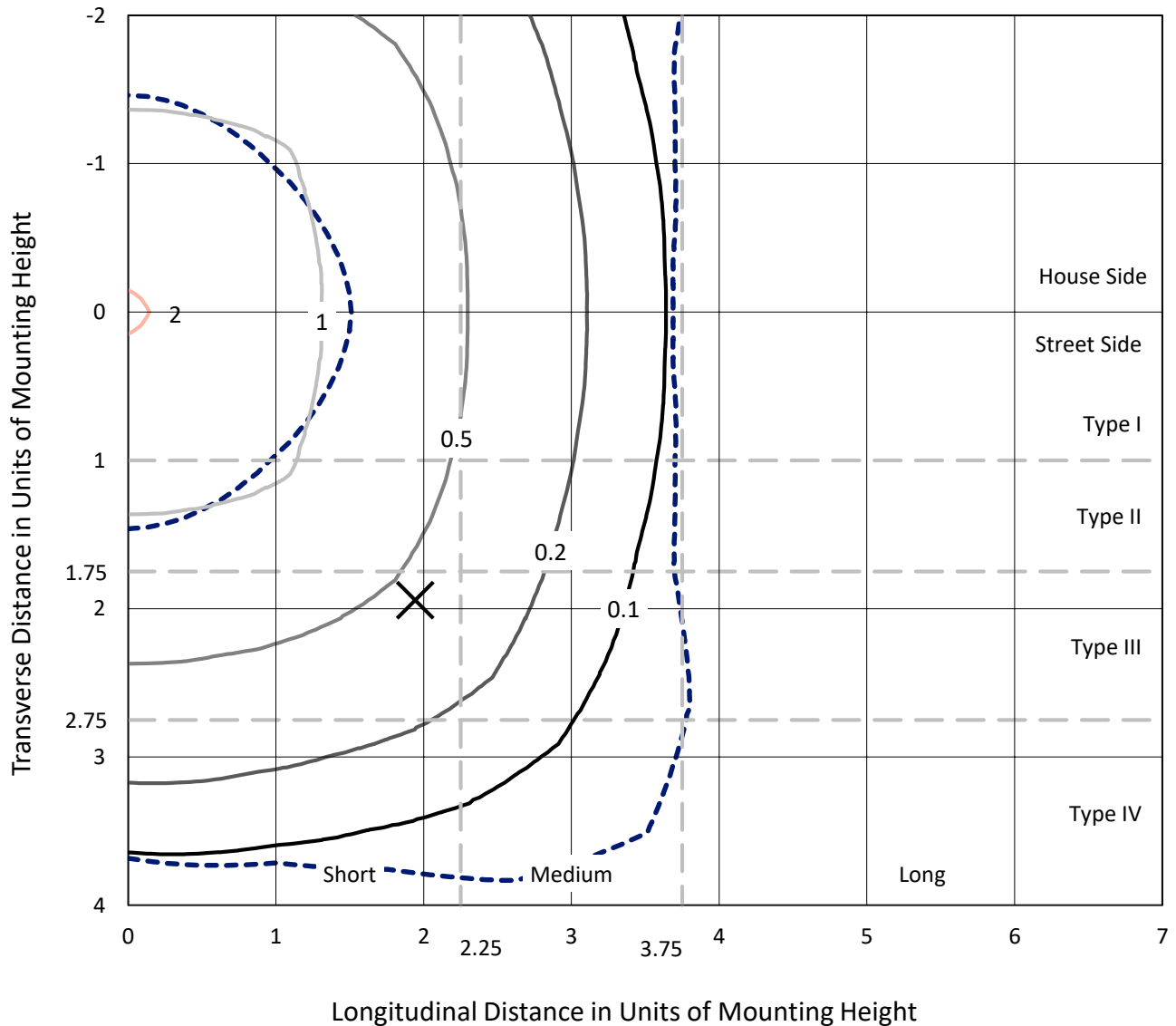
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

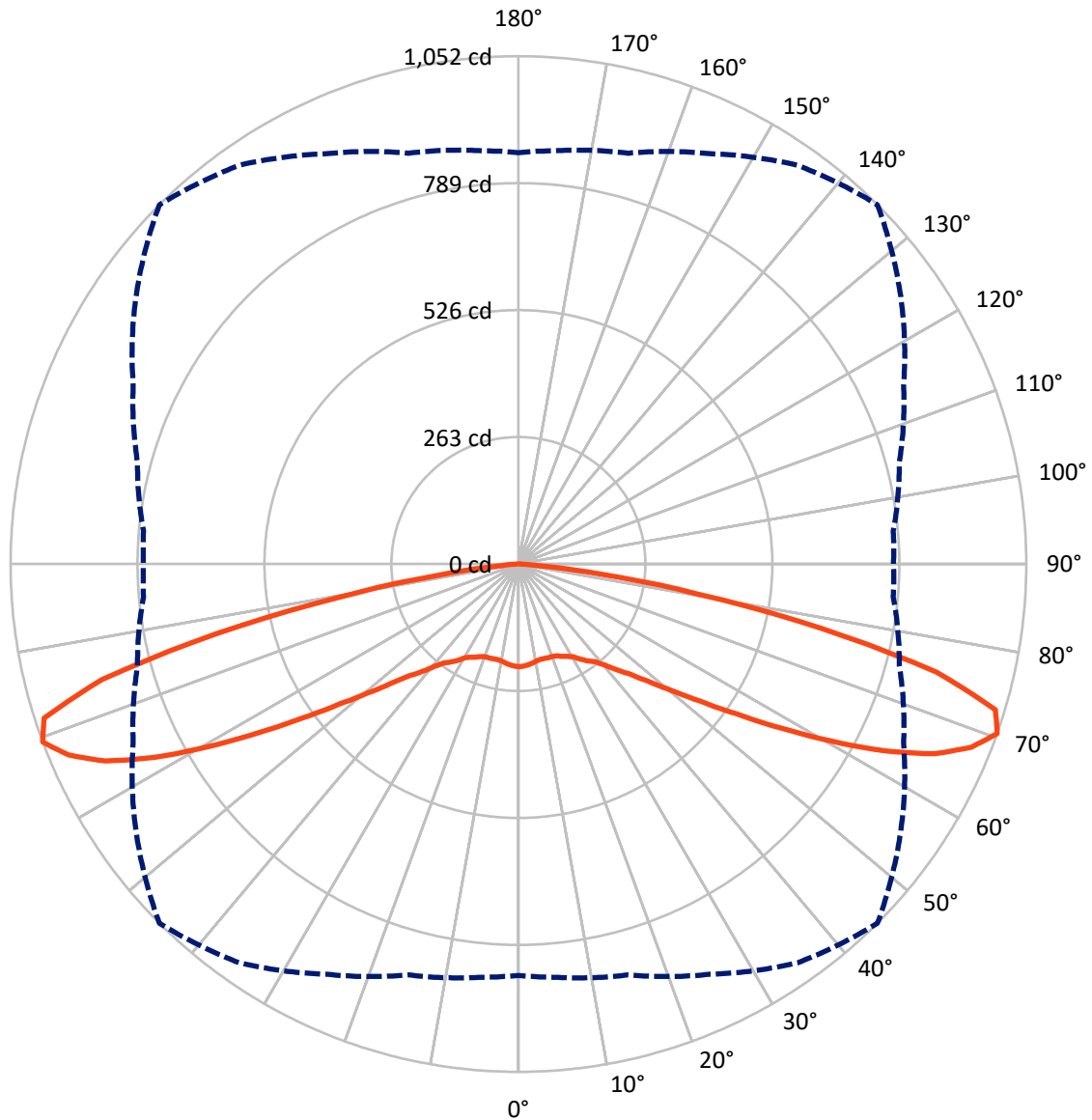
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.1 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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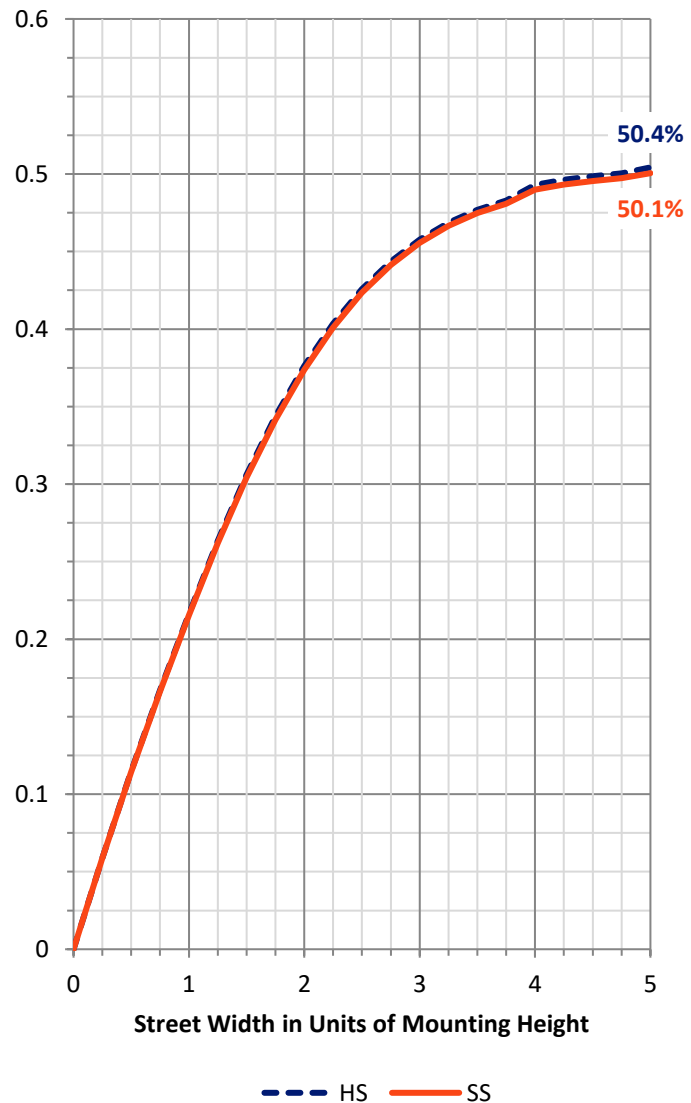
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1291.5	0.0	1291.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1291.5	0.0	1291.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2583.0	0.0	2583.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.8	0.8
10°-20°	58.0	2.2
20°-30°	98.8	3.8
30°-40°	154.4	6.0
40°-50°	261.7	10.1
50°-60°	477.2	18.5
60°-70°	821.5	31.8
70°-80°	643.9	24.9
80°-90°	47.7	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°	2583.0	100.0
0°-180°	2583.0	100.0



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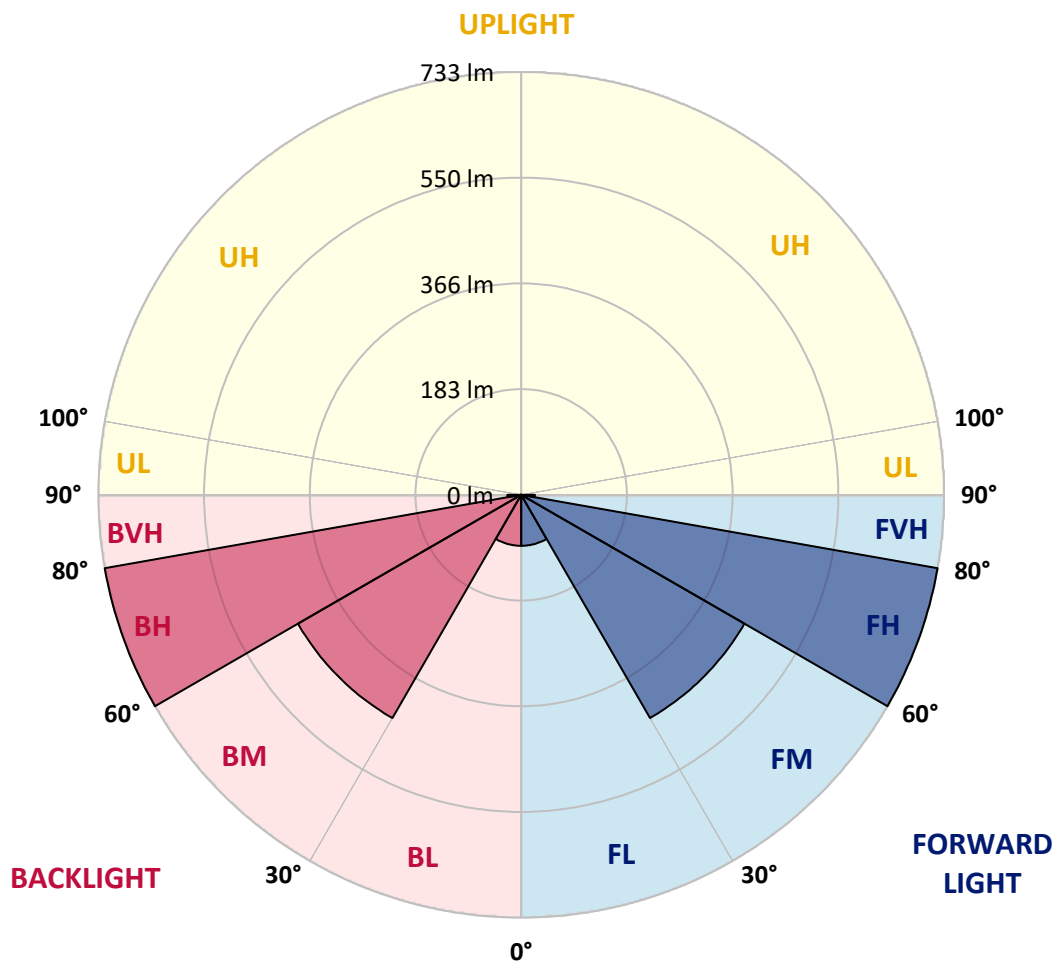
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	88.3	3.4			
FM	(30°-60°)	446.6	17.3			
FH	(60°-80°)	732.7	28.4			G1/1800
FVH	(80°-90°)	23.9	0.9			G1/100
BL	(0°-30°)	88.3	3.4	B0/110		
BM	(30°-60°)	446.6	17.3	B1/1000		
BH	(60°-80°)	732.7	28.4	B2/1000		G1/1800
BVH	(80°-90°)	23.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	212.6	212.6	212.6	212.6	212.6	212.6	212.6	212.6	212.6	212.6	212.6
2.5°	211.6	211.9	211.6	211.8	211.4	211.6	211.6	211.6	211.5	211.6	211.4
5°	209.8	209.9	209.6	209.8	209.5	209.8	209.8	209.8	209.6	209.7	209.3
7.5°	206.9	207.1	206.9	207.1	206.8	207.2	207.1	206.9	206.6	206.6	206.3
10°	205.4	205.5	204.8	204.5	203.8	204.0	204.2	204.5	204.7	205.2	205.1
12.5°	205.5	205.5	204.5	203.4	202.2	202.5	202.9	203.9	204.9	205.8	205.9
15°	206.3	206.3	204.7	202.9	202.2	202.9	203.2	203.8	205.4	207.0	207.1
17.5°	206.9	206.9	204.5	202.5	202.4	203.6	203.5	203.8	205.6	208.0	208.1
20°	208.1	208.1	205.0	202.8	202.8	204.0	204.1	204.5	206.3	209.0	209.4
22.5°	210.5	210.6	207.4	205.6	205.7	206.5	206.8	207.5	209.1	212.0	212.5
25°	214.0	214.2	210.9	209.8	210.4	211.9	211.7	212.2	214.0	216.9	217.4
27.5°	218.9	218.5	215.4	215.0	215.6	216.6	216.5	216.6	218.0	220.6	221.2
30°	225.2	225.1	222.8	223.1	222.8	222.5	222.6	223.3	224.0	226.1	226.7
32.5°	231.4	231.5	230.2	231.5	233.3	234.6	232.7	230.8	229.9	231.0	231.5
35°	242.5	242.9	240.8	239.9	242.5	246.2	240.7	237.6	239.3	240.8	241.2
37.5°	261.4	261.6	258.0	254.6	252.7	256.3	250.8	251.0	257.0	259.7	259.7
40°	282.9	283.0	280.6	277.6	274.4	275.2	273.0	273.7	277.6	280.1	280.8
42.5°	308.5	308.3	304.5	300.2	299.3	300.2	296.4	295.9	300.4	304.9	304.9
45°	341.8	341.2	336.3	331.6	327.1	325.2	324.3	326.7	333.0	337.1	337.2
47.5°	377.6	375.9	373.4	369.6	365.7	363.8	362.3	363.5	368.0	369.6	369.8
50°	414.4	414.7	415.3	413.8	412.3	411.7	407.7	405.4	406.8	403.8	403.4
52.5°	458.1	458.7	463.7	467.9	470.4	471.6	464.0	456.1	451.6	445.8	444.1
55°	509.6	510.7	518.0	529.6	541.5	547.9	534.1	519.2	505.5	494.6	491.1
57.5°	567.0	569.0	579.0	601.3	625.8	640.7	617.5	590.5	563.9	548.3	545.6
60°	634.3	636.2	650.0	682.0	721.7	744.2	709.0	664.8	631.8	616.8	611.8
62.5°	714.5	714.6	731.6	769.0	821.4	852.7	805.0	746.0	711.9	693.9	689.0
65°	800.7	801.1	818.7	859.0	913.3	947.3	893.5	832.0	790.3	763.7	759.9
67.5°	861.6	863.4	881.9	930.5	981.2	1011.9	956.2	886.6	838.4	806.7	803.6
70°	851.9	858.9	880.7	937.3	1007.9	1051.6	966.4	880.1	816.6	779.2	776.5
72.5°	742.9	756.3	785.4	859.7	972.6	1032.8	910.9	788.3	716.4	684.5	679.7
75°	505.9	527.7	571.5	678.8	830.9	894.2	766.8	628.5	560.8	516.8	513.5
77.5°	225.6	230.5	286.1	409.5	573.4	642.2	557.2	411.1	308.6	246.2	233.0
80°	62.9	63.7	84.9	152.5	287.0	377.3	308.1	160.2	90.1	63.5	59.8
82.5°	20.0	21.7	26.5	39.6	96.5	172.2	99.0	42.7	30.4	24.3	21.9
85°	9.7	9.7	13.4	16.1	24.6	38.1	26.2	19.8	17.3	11.5	10.4
87.5°	4.1	4.2	6.2	5.6	7.2	6.2	8.5	8.9	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)