

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: P348737

Luminaire Tested: **ARCH-N-PA1-19-830-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348737
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-PA1-19-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2454 lumens
Efficiency: N/A
Efficacy: 129.2 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

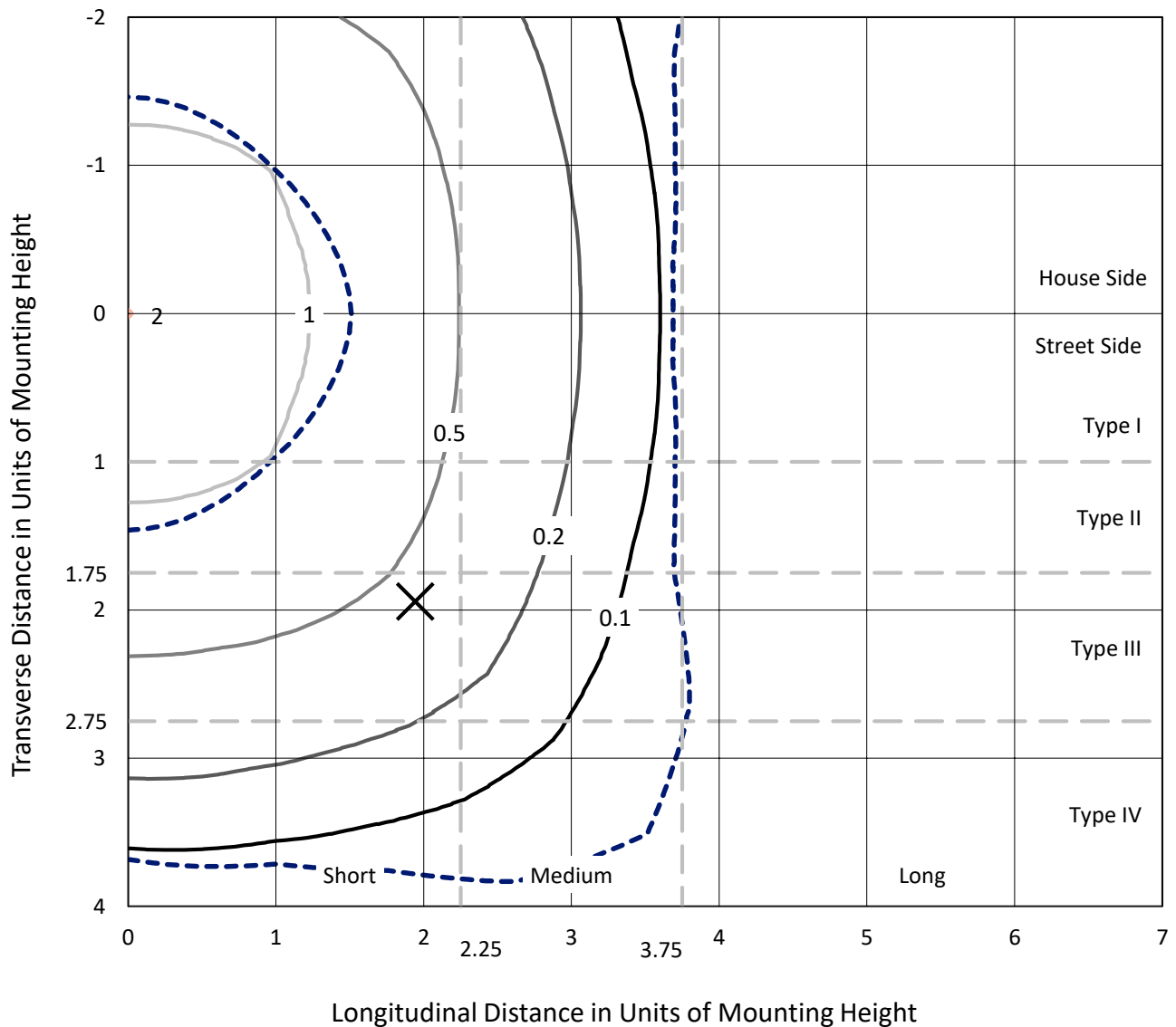
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

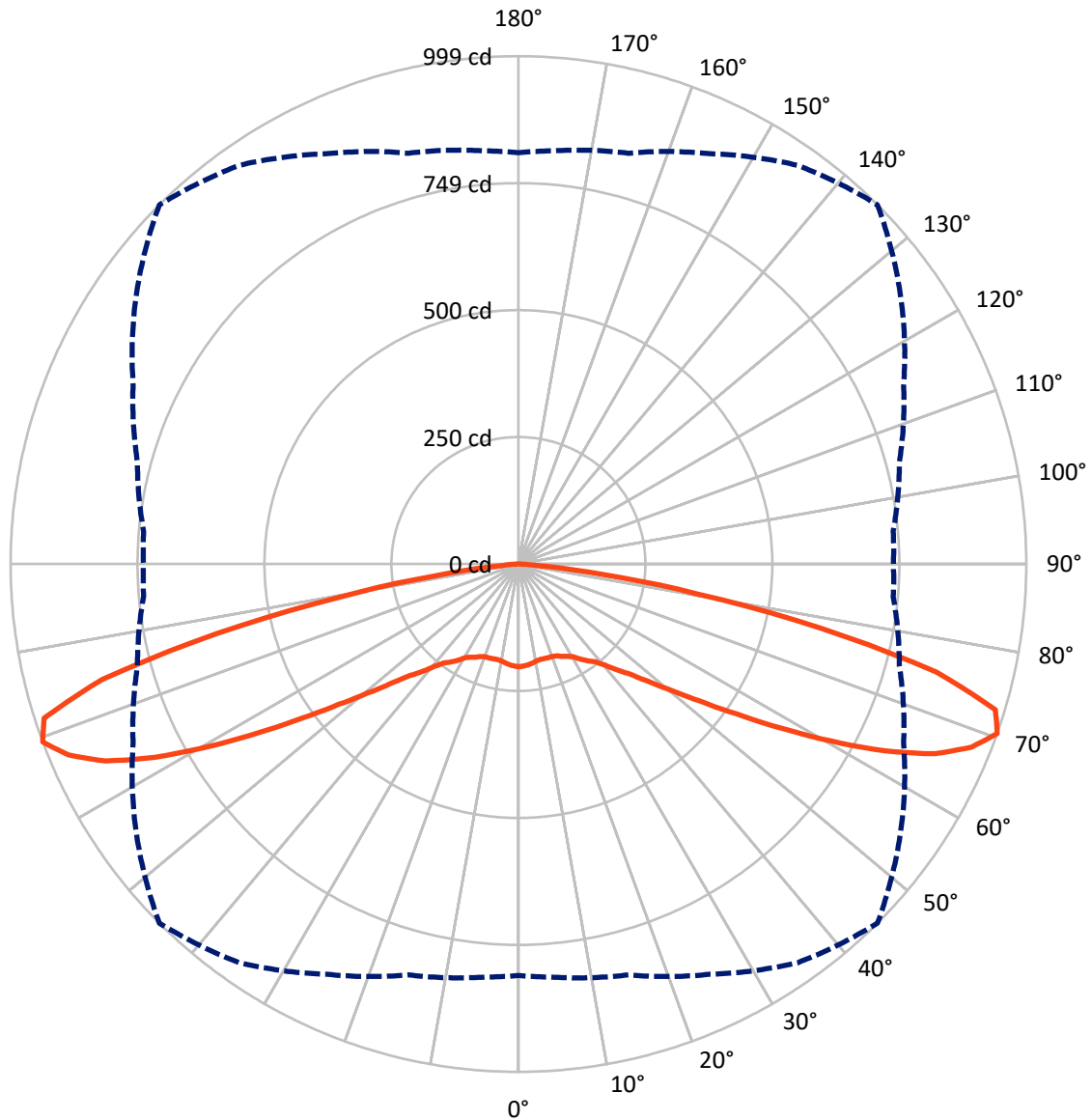


Based on 10 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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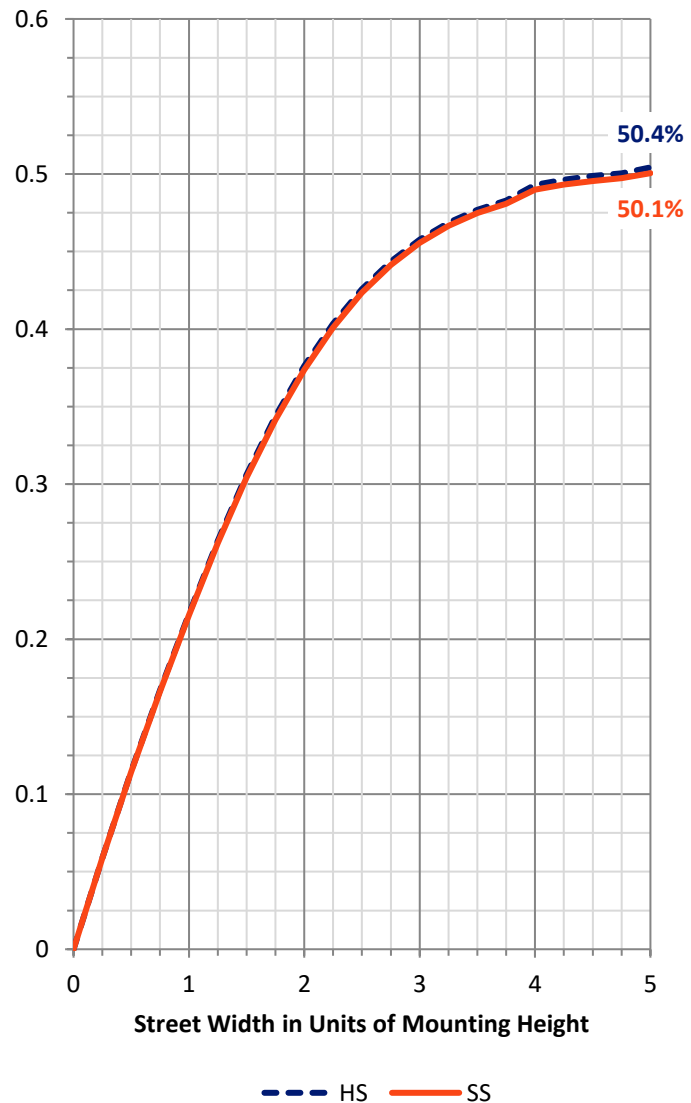
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1227.0	0.0	1227.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1227.0	0.0	1227.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	2454.0	0.0	2454.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.9	0.8
10°-20°	55.1	2.2
20°-30°	93.9	3.8
30°-40°	146.7	6.0
40°-50°	248.6	10.1
50°-60°	453.3	18.5
60°-70°	780.5	31.8
70°-80°	611.8	24.9
80°-90°	45.4	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°	2454.0	100.0
0°-180°	2454.0	100.0



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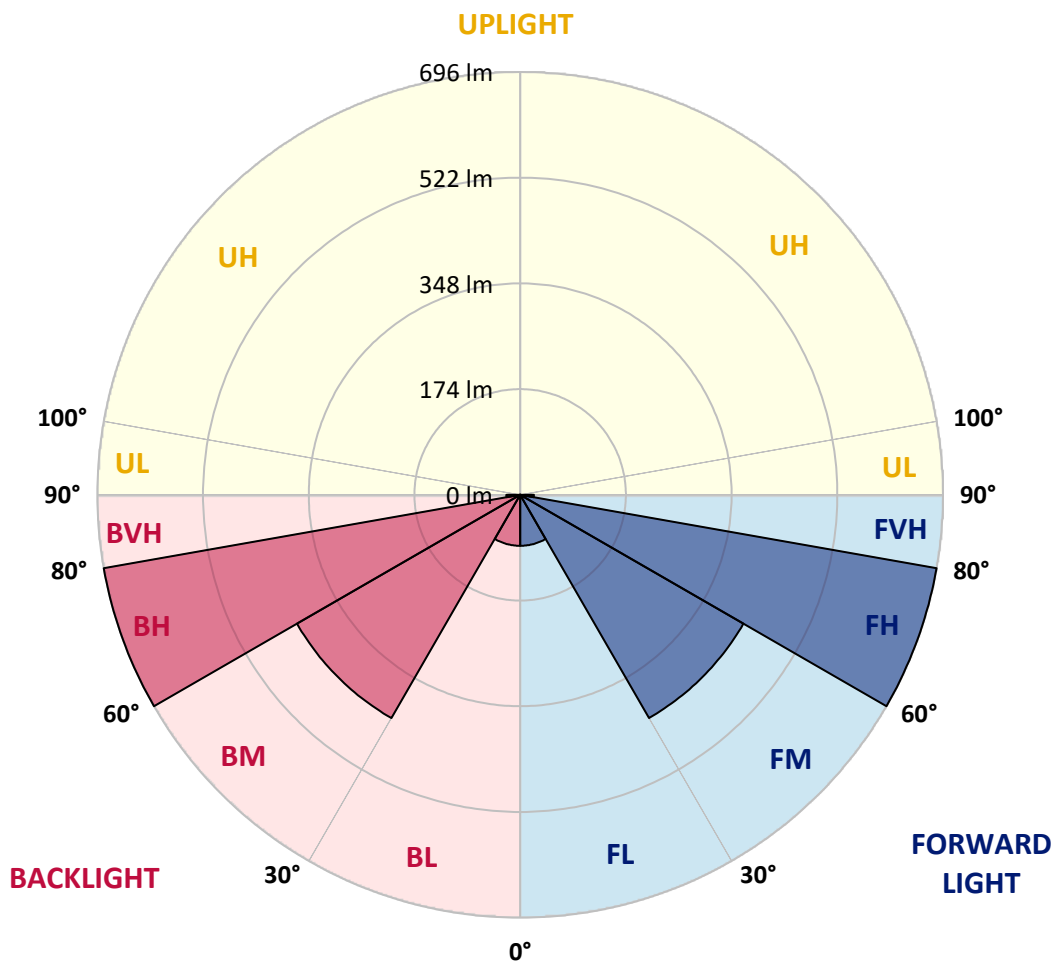
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	83.9	3.4			
FM	(30°-60°)	424.3	17.3			
FH	(60°-80°)	696.1	28.4			G1/1800
FVH	(80°-90°)	22.7	0.9			G1/100
BL	(0°-30°)	83.9	3.4	B0/110		
BM	(30°-60°)	424.3	17.3	B1/1000		
BH	(60°-80°)	696.1	28.4	B2/1000		G1/1800
BVH	(80°-90°)	22.7	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°	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0
2.5°	201.1	201.3	201.1	201.2	200.8	201.0	201.0	201.0	200.9	201.0	200.8
5°	199.3	199.4	199.1	199.3	199.0	199.3	199.4	199.3	199.1	199.2	198.9
7.5°	196.6	196.8	196.5	196.8	196.4	196.9	196.8	196.5	196.3	196.3	196.0
10°	195.1	195.2	194.6	194.3	193.6	193.8	194.0	194.3	194.5	195.0	194.9
12.5°	195.2	195.2	194.3	193.2	192.1	192.4	192.8	193.7	194.7	195.6	195.6
15°	196.0	196.0	194.5	192.8	192.1	192.8	193.0	193.6	195.1	196.7	196.8
17.5°	196.6	196.6	194.3	192.4	192.3	193.4	193.4	193.6	195.3	197.6	197.7
20°	197.7	197.7	194.7	192.6	192.6	193.8	193.9	194.3	196.0	198.6	199.0
22.5°	200.0	200.1	197.0	195.3	195.5	196.2	196.4	197.1	198.6	201.4	201.9
25°	203.3	203.5	200.3	199.4	199.9	201.3	201.2	201.6	203.3	206.0	206.5
27.5°	208.0	207.6	204.6	204.2	204.8	205.8	205.7	205.8	207.2	209.6	210.2
30°	214.0	213.8	211.7	211.9	211.7	211.4	211.5	212.1	212.8	214.8	215.4
32.5°	219.8	220.0	218.7	219.9	221.7	222.9	221.0	219.3	218.4	219.5	220.0
35°	230.4	230.8	228.8	227.9	230.4	233.9	228.7	225.7	227.4	228.8	229.2
37.5°	248.3	248.6	245.1	241.9	240.1	243.5	238.2	238.5	244.2	246.8	246.7
40°	268.8	268.9	266.6	263.7	260.7	261.5	259.4	260.0	263.7	266.1	266.7
42.5°	293.1	292.9	289.3	285.3	284.4	285.2	281.6	281.1	285.4	289.6	289.7
45°	324.7	324.1	319.5	315.0	310.7	309.0	308.1	310.4	316.3	320.2	320.3
47.5°	358.7	357.2	354.7	351.2	347.4	345.6	344.2	345.3	349.6	351.2	351.3
50°	393.7	394.0	394.5	393.1	391.8	391.2	387.4	385.2	386.5	383.6	383.2
52.5°	435.2	435.8	440.5	444.5	446.9	448.1	440.9	433.3	429.1	423.6	422.0
55°	484.1	485.2	492.1	503.1	514.5	520.5	507.4	493.3	480.2	469.9	466.6
57.5°	538.7	540.5	550.0	571.2	594.5	608.7	586.7	561.0	535.8	520.9	518.3
60°	602.6	604.4	617.6	647.9	685.7	707.0	673.6	631.6	600.2	586.0	581.2
62.5°	678.8	679.0	695.1	730.6	780.4	810.1	764.8	708.7	676.4	659.2	654.6
65°	760.7	761.1	777.8	816.1	867.7	900.0	848.9	790.4	750.8	725.5	722.0
67.5°	818.6	820.3	837.9	884.0	932.2	961.4	908.4	842.4	796.6	766.5	763.5
70°	809.3	816.0	836.7	890.5	957.5	999.1	918.1	836.2	775.8	740.2	737.7
72.5°	705.8	718.6	746.2	816.8	924.0	981.2	865.4	748.9	680.6	650.3	645.8
75°	480.6	501.3	543.0	644.9	789.4	849.6	728.5	597.1	532.8	490.9	487.9
77.5°	214.3	219.0	271.8	389.1	544.8	610.1	529.3	390.6	293.2	233.9	221.4
80°	59.7	60.5	80.7	144.9	272.7	358.5	292.7	152.2	85.6	60.3	56.8
82.5°	19.0	20.6	25.2	37.6	91.6	163.6	94.1	40.6	28.9	23.1	20.8
85°	9.3	9.2	12.7	15.3	23.4	36.2	24.9	18.8	16.5	11.0	9.9
87.5°	3.9	4.0	5.9	5.4	6.8	5.8	8.0	8.4	8.8	4.9	4.2
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)