

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: P236734

Luminaire Tested: **ARCH-L-AF72-210-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-210-D-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26543.5 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G4

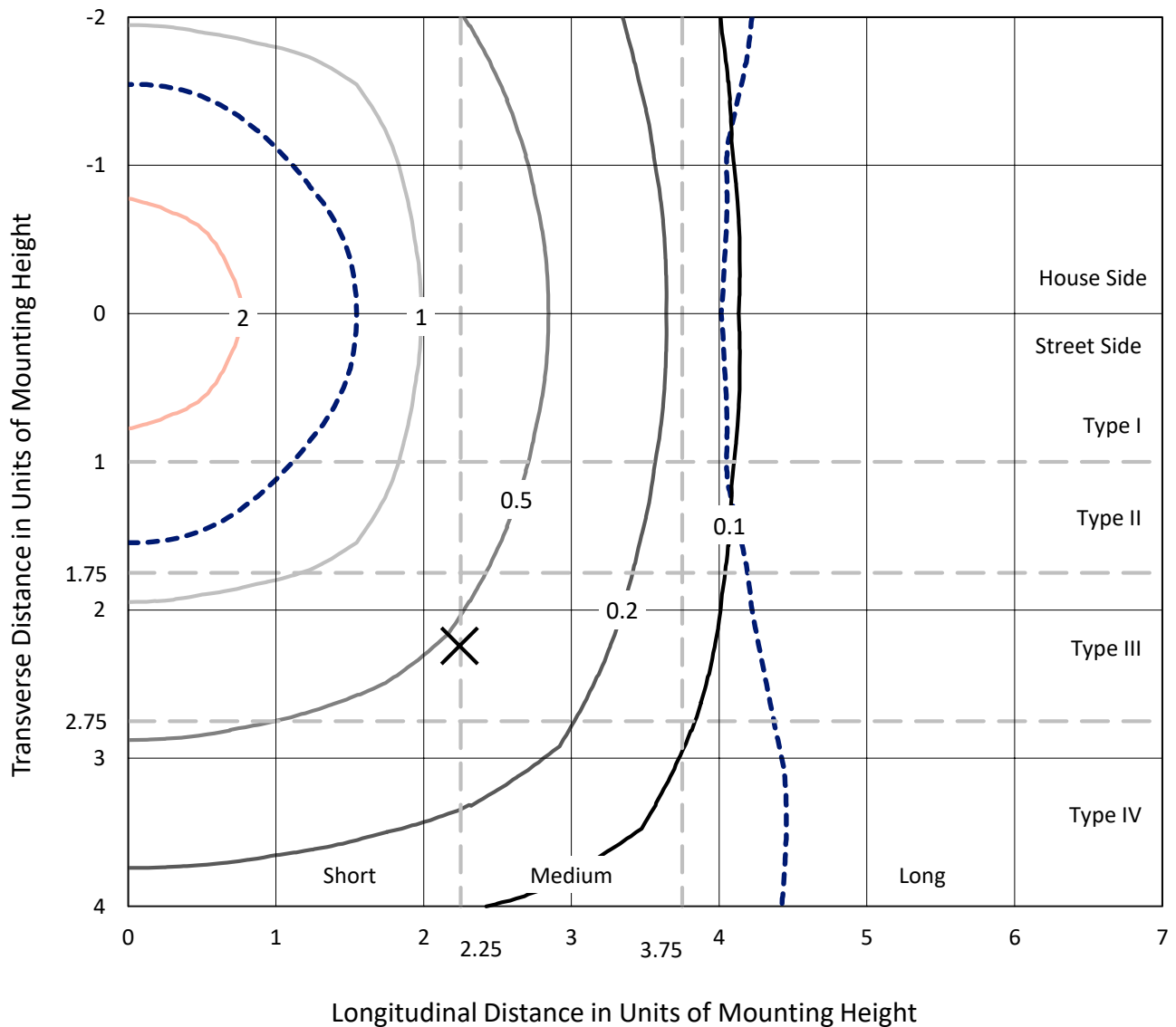
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

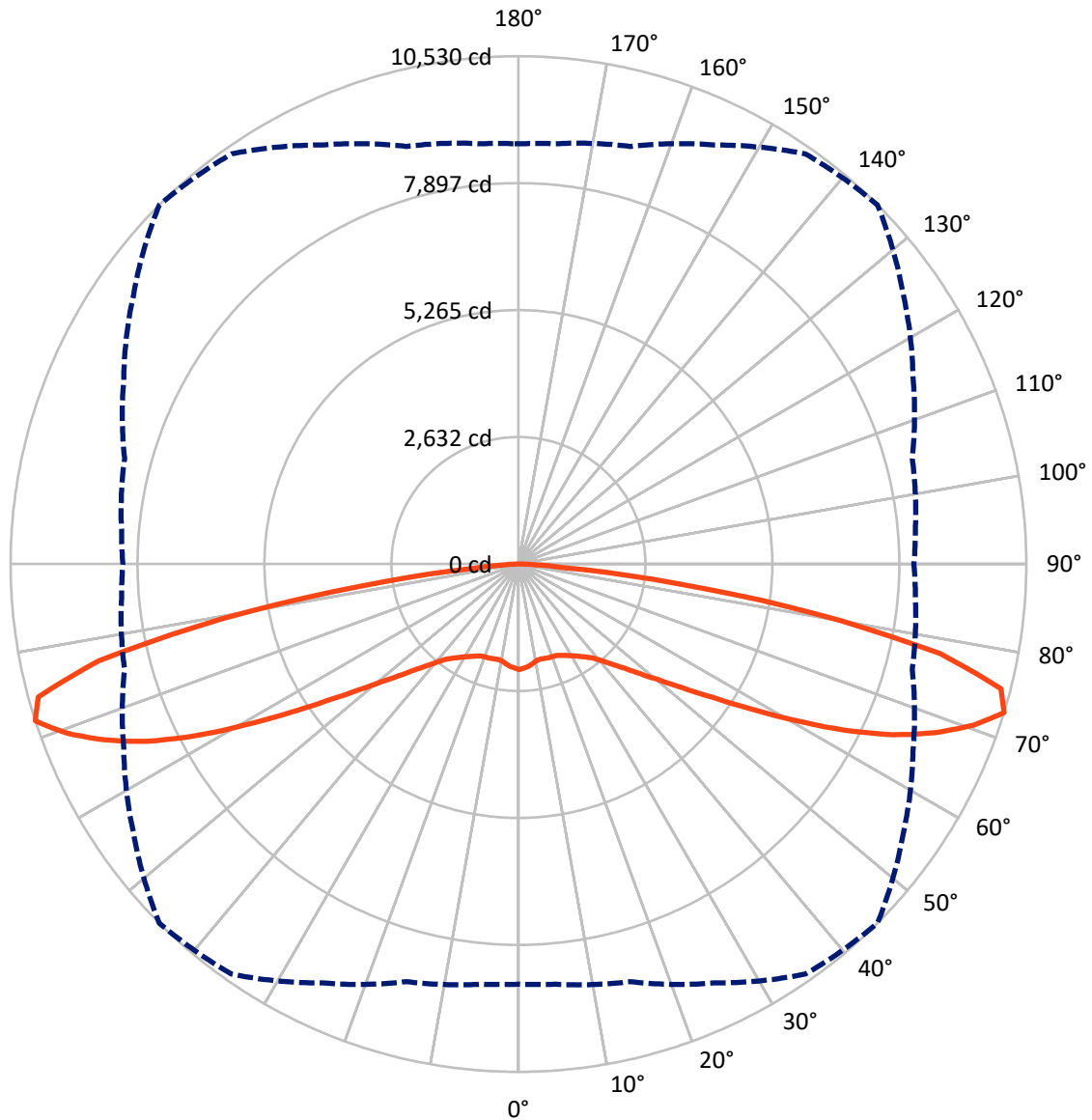
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13271.8	0.0	13271.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13271.8	0.0	13271.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	26543.5	0.0	26543.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	0.8
10°-20°	580.8	2.2
20°-30°	972.0	3.7
30°-40°	1493.4	5.6
40°-50°	2472.8	9.3
50°-60°	4396.1	16.6
60°-70°	7691.0	29.0
70°-80°	7824.9	29.5
80°-90°	911.1	3.4
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°	26543.5	100.0
0°-180°	26543.5	100.0



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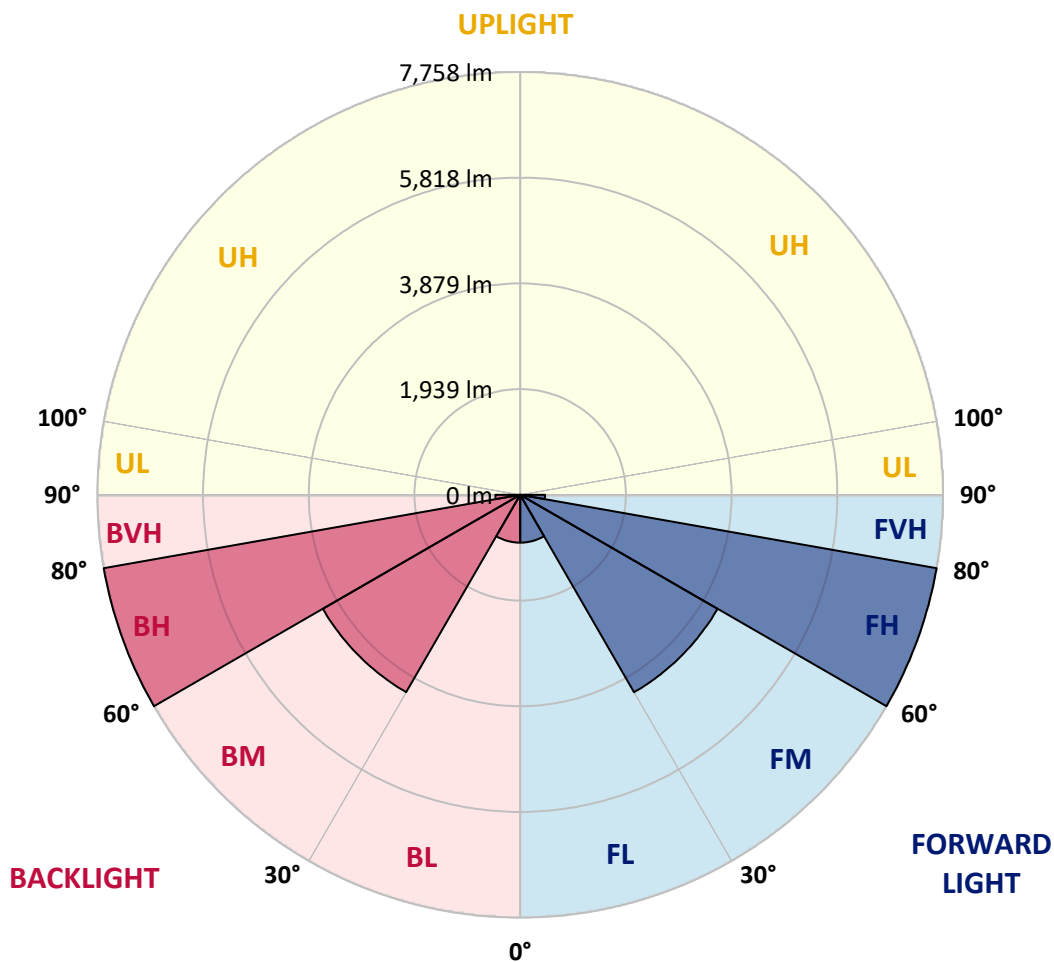
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	877.1	3.3			
FM	(30°-60°)	4181.2	15.8			
FH	(60°-80°)	7757.9	29.2			G4/12000
FVH	(80°-90°)	455.6	1.7			G3/500
BL	(0°-30°)	877.1	3.3	B2/1000		
BM	(30°-60°)	4181.2	15.8	B3/5000		
BH	(60°-80°)	7757.9	29.2	B5		G4/12000
BVH	(80°-90°)	455.6	1.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2187.8	2187.8	2187.8	2187.8	2187.8	2187.8	2187.8	2187.8	2187.8	2187.8	2187.8
2.5°	2167.6	2172.6	2162.5	2162.5	2162.5	2157.5	2162.5	2157.5	2162.5	2167.6	2167.6
5°	2147.4	2147.4	2137.3	2137.3	2137.3	2132.2	2137.3	2137.3	2142.4	2147.4	2147.4
7.5°	2101.9	2101.9	2096.8	2091.8	2086.7	2086.7	2091.8	2091.8	2096.8	2101.9	2101.9
10°	2076.7	2071.6	2061.5	2046.3	2041.3	2036.2	2046.3	2056.4	2071.6	2086.7	2081.7
12.5°	2066.6	2061.5	2041.3	2026.2	2016.0	2021.0	2031.2	2041.3	2066.6	2081.7	2076.7
15°	2076.7	2066.6	2041.3	2016.0	2021.0	2031.2	2041.3	2041.3	2071.6	2086.7	2086.7
17.5°	2076.7	2071.6	2041.3	2021.0	2026.2	2041.3	2046.3	2041.3	2066.6	2091.8	2091.8
20°	2081.7	2081.7	2041.3	2026.2	2031.2	2046.3	2051.4	2046.3	2066.6	2096.8	2096.8
22.5°	2091.8	2086.7	2046.3	2036.2	2046.3	2056.4	2061.5	2056.4	2076.7	2101.9	2107.0
25°	2112.0	2101.9	2066.6	2061.5	2081.7	2096.8	2096.8	2086.7	2096.8	2122.1	2122.1
27.5°	2137.3	2132.2	2091.8	2091.8	2117.1	2147.4	2132.2	2112.0	2122.1	2147.4	2147.4
30°	2182.8	2177.7	2137.3	2137.3	2172.6	2208.0	2172.6	2147.4	2162.5	2187.8	2192.9
32.5°	2248.4	2248.4	2213.1	2202.9	2263.6	2278.7	2263.6	2213.1	2223.2	2258.6	2258.6
35°	2359.6	2349.5	2314.1	2309.1	2369.7	2364.7	2359.6	2314.1	2324.2	2364.7	2364.7
37.5°	2506.1	2501.1	2470.7	2455.6	2485.9	2465.7	2475.8	2455.6	2480.9	2511.1	2516.3
40°	2693.0	2688.0	2662.7	2642.6	2652.6	2622.3	2632.5	2642.6	2667.9	2688.0	2693.0
42.5°	2925.5	2925.5	2900.3	2864.9	2849.7	2834.5	2834.5	2854.7	2880.0	2905.3	2905.3
45°	3213.5	3213.5	3183.2	3147.8	3102.3	3077.0	3087.2	3107.4	3137.7	3168.0	3178.1
47.5°	3552.0	3552.0	3511.6	3476.2	3430.8	3400.5	3400.5	3410.5	3456.0	3481.3	3496.4
50°	3931.0	3915.9	3875.3	3840.1	3814.8	3774.4	3779.4	3774.4	3814.8	3850.1	3860.2
52.5°	4325.0	4320.0	4279.6	4269.5	4284.6	4264.5	4264.5	4213.9	4229.1	4249.3	4244.2
55°	4815.2	4800.0	4764.7	4784.9	4845.5	4875.8	4865.7	4784.9	4739.4	4749.5	4744.4
57.5°	5350.7	5335.6	5325.5	5386.1	5522.6	5648.8	5623.6	5436.7	5350.7	5355.9	5360.9
60°	5896.5	5896.5	5926.8	6078.4	6371.4	6578.6	6502.8	6189.5	6038.0	6007.6	5997.6
62.5°	6457.3	6472.4	6538.2	6790.8	7240.4	7584.1	7392.0	6947.4	6720.1	6659.4	6639.2
65°	7109.1	7124.2	7220.3	7533.5	8129.7	8539.0	8210.6	7791.2	7472.9	7346.5	7326.4
67.5°	8053.9	8064.0	8139.8	8443.0	9003.8	9332.3	8993.8	8619.9	8276.3	8129.7	8119.7
70°	8902.8	8912.9	8978.5	9377.7	9893.2	10009.4	9635.5	9160.5	8801.8	8685.6	8665.3
72.5°	8710.8	8746.1	8963.4	9584.9	10378.1	10529.7	9741.6	9029.1	8453.2	8261.1	8200.5
75°	7306.1	7361.8	7705.3	8640.0	9903.2	10332.7	9115.0	7806.3	6947.4	6578.6	6482.5
77.5°	4264.5	4471.6	5062.8	6260.3	8064.0	8938.1	7508.3	5714.6	4269.5	3663.2	3461.1
80°	1167.2	1278.3	1707.8	2880.0	5057.7	6260.3	4790.0	2622.3	1414.7	1061.1	985.3
82.5°	368.9	490.1	621.4	828.6	1985.6	3299.4	1778.5	773.0	606.3	500.2	444.7
85°	197.0	212.3	348.6	404.2	596.2	924.6	550.8	404.2	363.8	267.8	252.7
87.5°	101.1	106.1	197.0	197.0	262.7	217.3	237.4	217.3	207.1	131.3	116.2
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)