

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: P236736

Luminaire Tested: **ARCH-L-AF72-230-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236736
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-AF72-230-D-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28162.9 lumens
Efficiency: N/A
Efficacy: 123.0 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

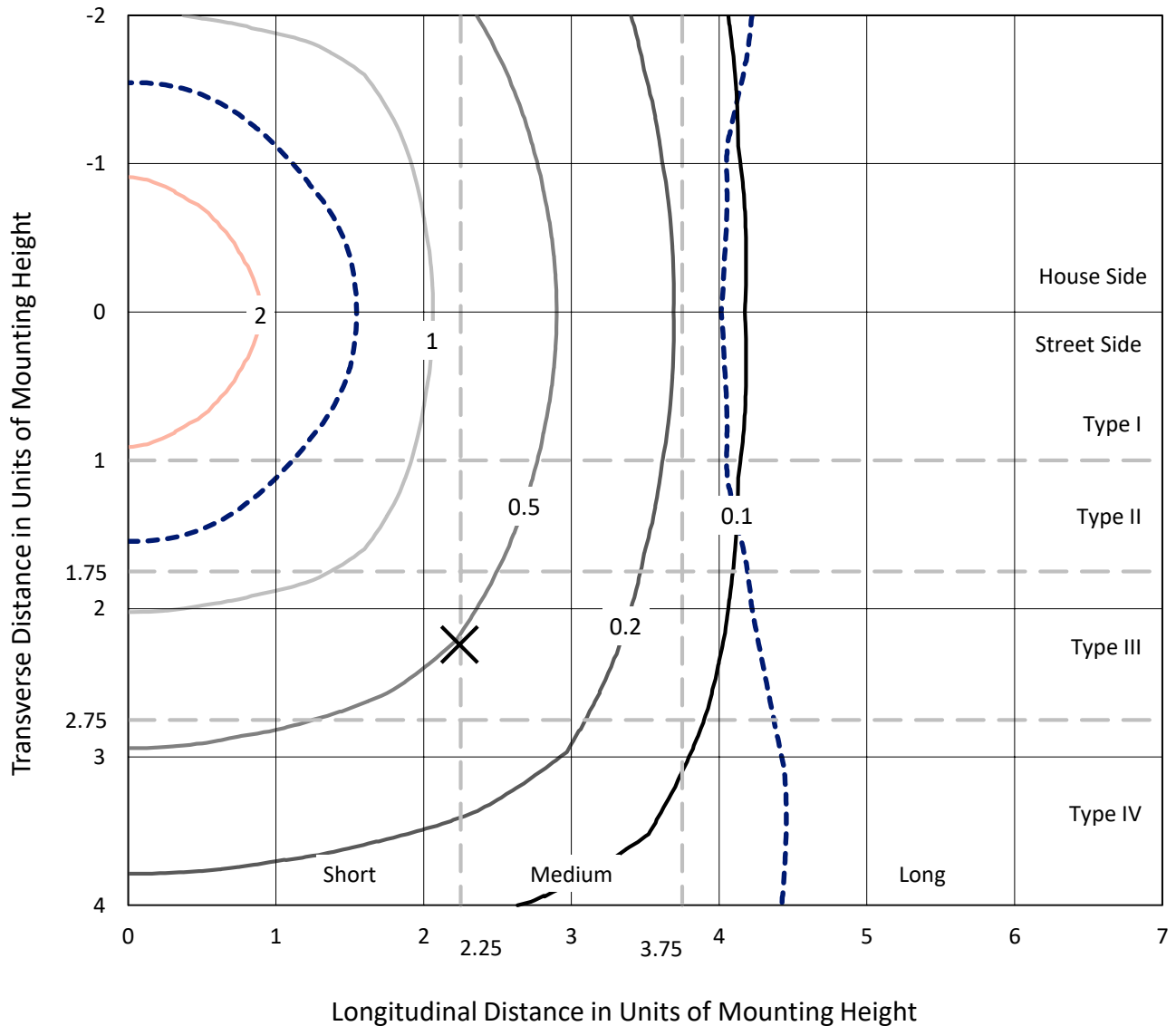
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

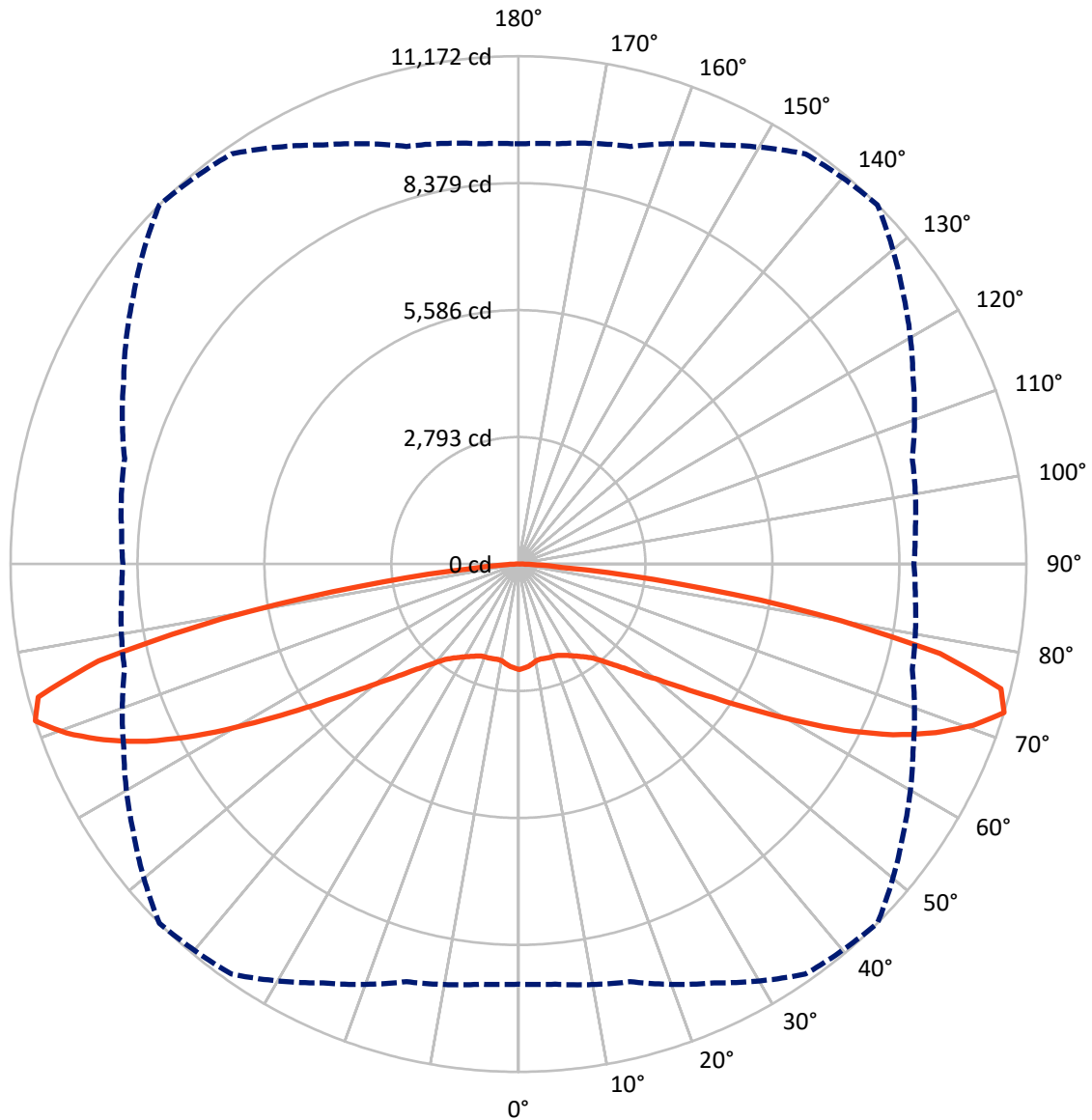


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Non-Cutoff

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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	14081.5	0.0	14081.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14081.5	0.0	14081.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28162.9	0.0	28162.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	0.8
10°-20°	616.3	2.2
20°-30°	1031.3	3.7
30°-40°	1584.6	5.6
40°-50°	2623.6	9.3
50°-60°	4664.3	16.6
60°-70°	8160.2	29.0
70°-80°	8302.3	29.5
80°-90°	966.8	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°	28162.9	100.0
0°-180°	28162.9	100.0



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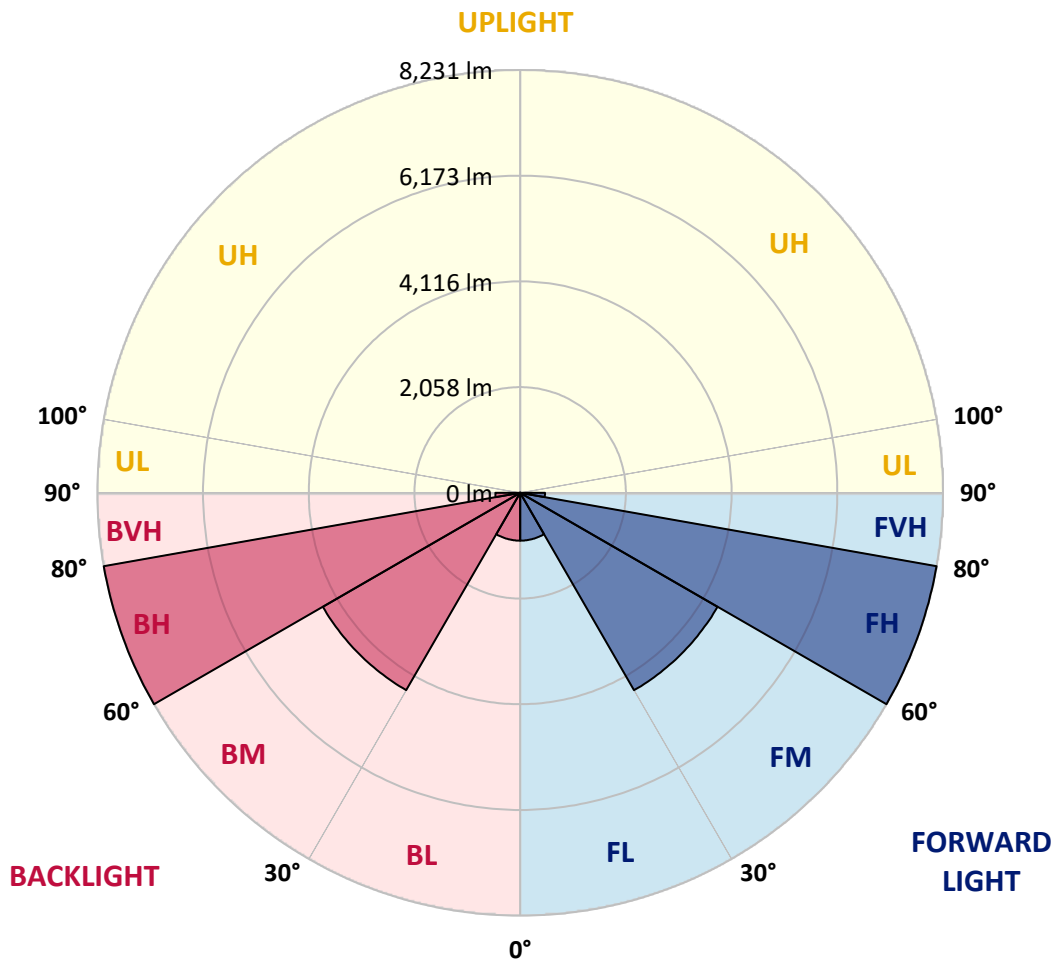
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	930.6	3.3			
FM	(30°-60°)	4436.3	15.8			
FH	(60°-80°)	8231.2	29.2			G4/12000
FVH	(80°-90°)	483.4	1.7			G3/500
BL	(0°-30°)	930.6	3.3	B2/1000		
BM	(30°-60°)	4436.3	15.8	B3/5000		
BH	(60°-80°)	8231.2	29.2	B5		G4/12000
BVH	(80°-90°)	483.4	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°	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3
2.5°	2299.8	2305.2	2294.5	2294.5	2294.5	2289.2	2294.5	2289.2	2294.5	2299.8	2299.8
5°	2278.4	2278.4	2267.7	2267.7	2267.7	2262.3	2267.7	2267.7	2273.0	2278.4	2278.4
7.5°	2230.1	2230.1	2224.8	2219.4	2214.1	2214.1	2219.4	2219.4	2224.8	2230.1	2230.1
10°	2203.3	2198.0	2187.3	2171.2	2165.8	2160.5	2171.2	2181.9	2198.0	2214.1	2208.7
12.5°	2192.6	2187.3	2165.8	2149.7	2139.0	2144.4	2155.1	2165.8	2192.6	2208.7	2203.3
15°	2203.3	2192.6	2165.8	2139.0	2144.4	2155.1	2165.8	2165.8	2198.0	2214.1	2214.1
17.5°	2203.3	2198.0	2165.8	2144.4	2149.7	2165.8	2171.2	2165.8	2192.6	2219.4	2219.4
20°	2208.7	2208.7	2165.8	2149.7	2155.1	2171.2	2176.5	2171.2	2192.6	2224.8	2224.8
22.5°	2219.4	2214.1	2171.2	2160.5	2171.2	2181.9	2187.3	2181.9	2203.3	2230.1	2235.5
25°	2240.9	2230.1	2192.6	2187.3	2208.7	2224.8	2224.8	2214.1	2224.8	2251.6	2251.6
27.5°	2267.7	2262.3	2219.4	2219.4	2246.2	2278.4	2262.3	2240.9	2251.6	2278.4	2278.4
30°	2316.0	2310.5	2267.7	2267.7	2305.2	2342.8	2305.2	2278.4	2294.5	2321.3	2326.6
32.5°	2385.6	2385.6	2348.1	2337.3	2401.7	2417.7	2401.7	2348.1	2358.8	2396.4	2396.4
35°	2503.6	2492.8	2455.3	2450.0	2514.3	2508.9	2503.6	2455.3	2466.0	2508.9	2508.9
37.5°	2659.1	2653.6	2621.5	2605.4	2637.6	2616.1	2626.8	2605.4	2632.3	2664.4	2669.7
40°	2857.4	2852.0	2825.2	2803.8	2814.4	2782.3	2793.1	2803.8	2830.6	2852.0	2857.4
42.5°	3103.9	3103.9	3077.1	3039.6	3023.5	3007.5	3007.5	3029.0	3055.8	3082.6	3082.6
45°	3409.5	3409.5	3377.4	3339.8	3291.5	3264.7	3275.5	3297.0	3329.1	3361.3	3372.1
47.5°	3768.8	3768.8	3725.8	3688.4	3640.1	3607.8	3607.8	3618.6	3666.9	3693.7	3709.7
50°	4170.8	4154.7	4111.9	4074.3	4047.5	4004.6	4010.0	4004.6	4047.5	4085.1	4095.7
52.5°	4589.0	4583.5	4540.7	4529.9	4546.1	4524.6	4524.6	4471.0	4487.1	4508.6	4503.1
55°	5108.9	5092.9	5055.3	5076.8	5141.1	5173.3	5162.5	5076.8	5028.5	5039.3	5033.9
57.5°	5677.2	5661.1	5650.4	5714.7	5859.5	5993.5	5966.7	5768.3	5677.2	5682.6	5687.9
60°	6256.2	6256.2	6288.4	6449.2	6760.1	6979.9	6899.5	6567.1	6406.3	6374.1	6363.4
62.5°	6851.2	6867.4	6937.0	7205.1	7682.2	8046.7	7843.0	7371.3	7130.0	7065.7	7044.2
65°	7542.8	7558.9	7660.8	7993.1	8625.7	9060.0	8711.4	8266.6	7928.8	7794.8	7773.3
67.5°	8545.3	8556.1	8636.5	8958.1	9553.1	9901.6	9542.4	9145.7	8781.2	8625.7	8615.0
70°	9445.9	9456.7	9526.3	9949.8	10496.7	10620.0	10223.3	9719.4	9338.7	9215.4	9194.0
72.5°	9242.3	9279.7	9510.3	10169.7	11011.3	11172.2	10335.8	9579.9	8968.8	8765.1	8700.7
75°	7751.9	7810.8	8175.4	9167.2	10507.3	10963.1	9671.1	8282.6	7371.3	6979.9	6878.0
77.5°	4524.6	4744.4	5371.6	6642.1	8556.1	9483.5	7966.3	6063.2	4529.9	3886.7	3672.2
80°	1238.4	1356.3	1812.0	3055.8	5366.3	6642.1	5082.1	2782.3	1501.1	1125.8	1045.4
82.5°	391.4	520.0	659.4	879.2	2106.9	3500.6	1887.0	820.2	643.3	530.7	471.8
85°	209.1	225.2	369.9	428.9	632.6	981.0	584.3	428.9	386.0	284.2	268.0
87.5°	107.2	112.6	209.1	209.1	278.8	230.5	252.0	230.5	219.8	139.4	123.3
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)