

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: P236738

Luminaire Tested: **ARCH-L-AF72-250-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236738
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-AF72-250-D-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29784.2 lumens
Efficiency: N/A
Efficacy: 118.7 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

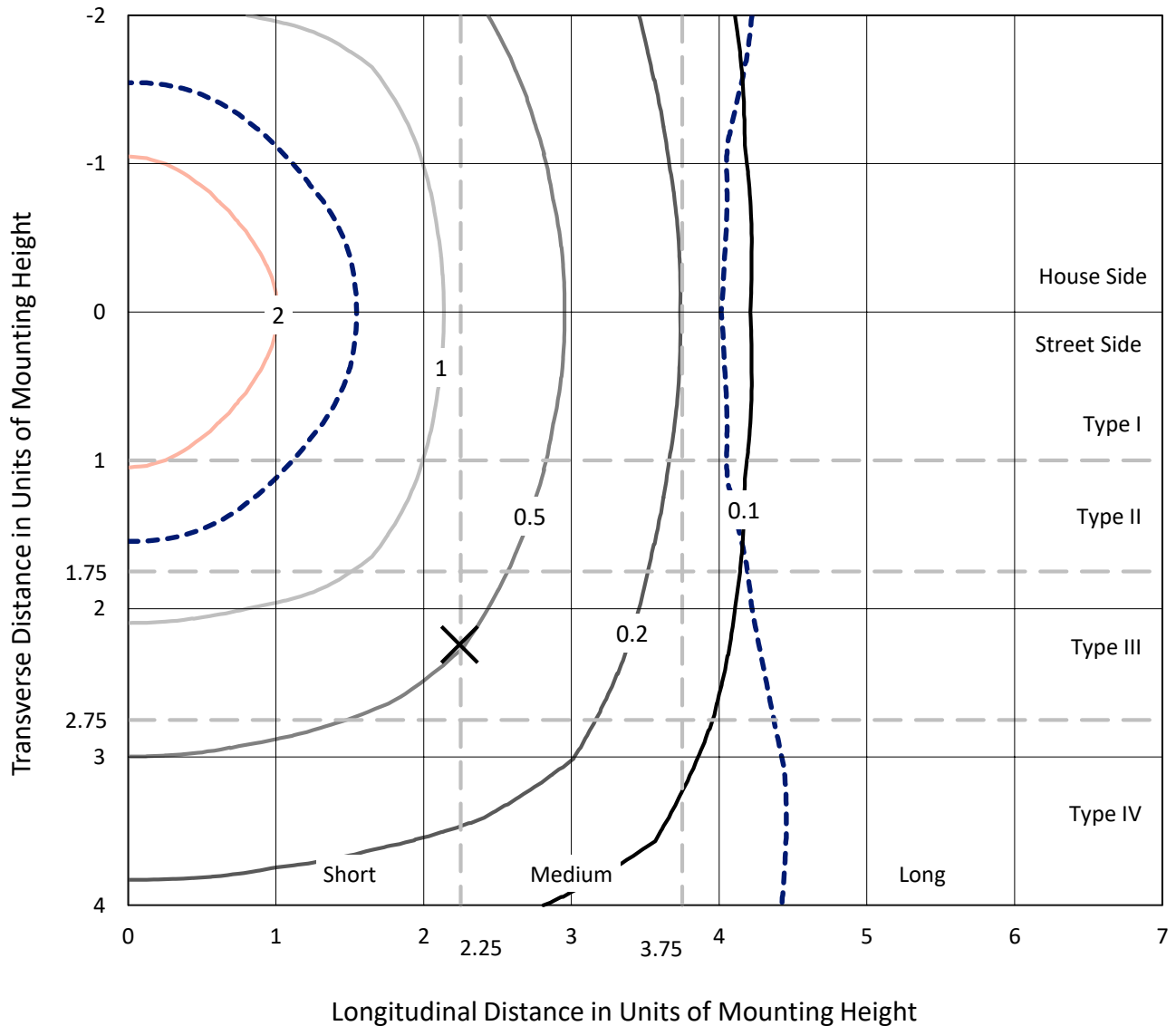
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

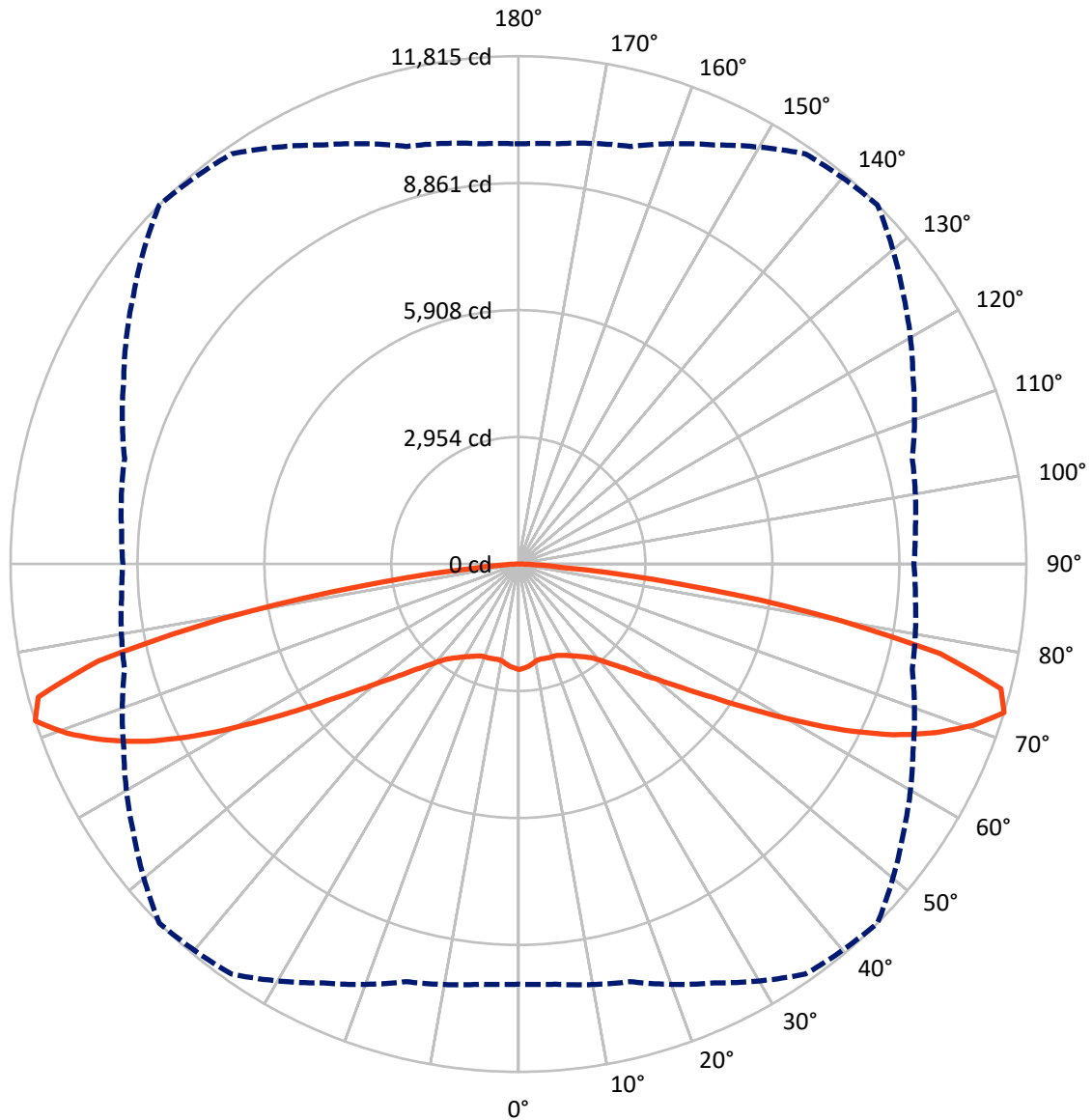


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P236738

CATALOG NUMBER: ARCH-L-AF72-250-D-U-5WQ

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: ARCH-L-AF72-250-D-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14892.1	0.0	14892.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14892.1	0.0	14892.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	29784.2	0.0	29784.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.9	0.8
10°-20°	651.7	2.2
20°-30°	1090.6	3.7
30°-40°	1675.8	5.6
40°-50°	2774.7	9.3
50°-60°	4932.9	16.6
60°-70°	8629.9	29.0
70°-80°	8780.3	29.5
80°-90°	1022.4	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°	29784.2	100.0
0°-180°	29784.2	100.0



REPORT NUMBER: P236738

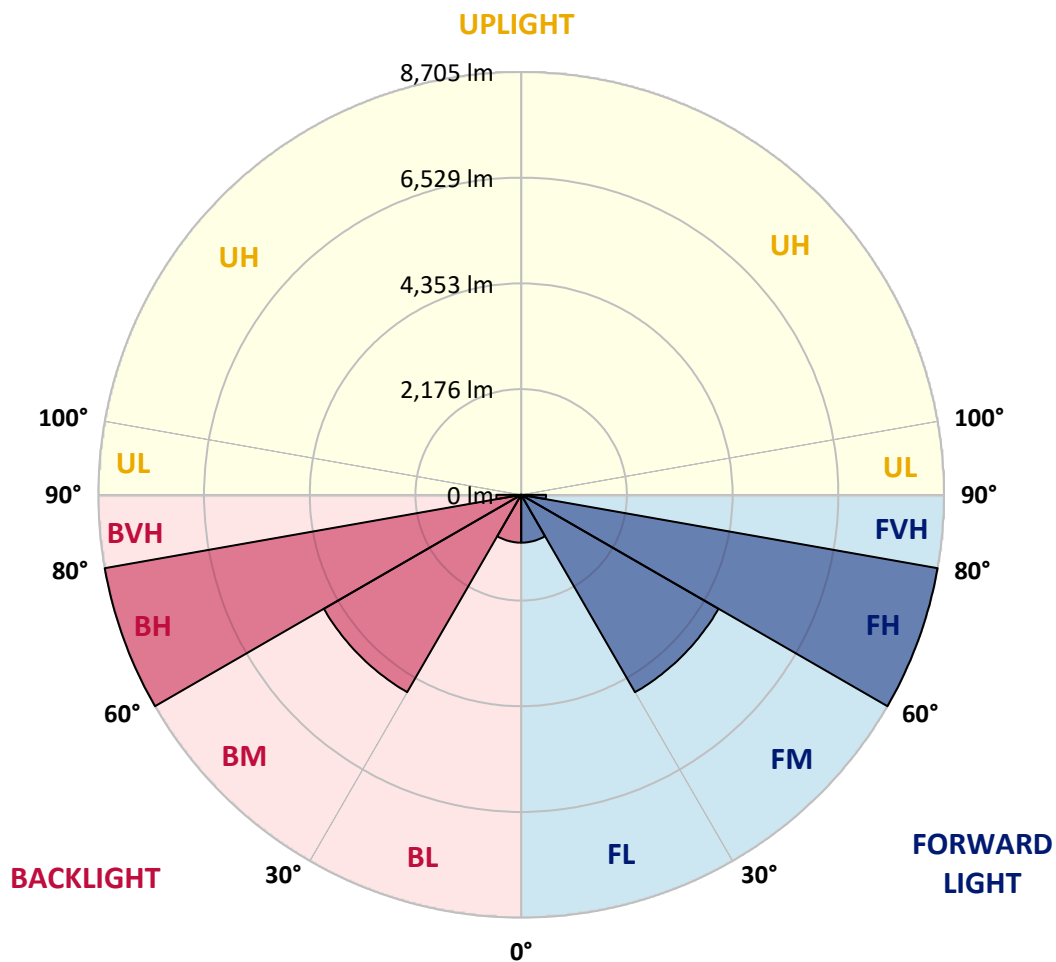
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	984.1	3.3			
FM	(30°-60°)	4691.7	15.8			
FH	(60°-80°)	8705.1	29.2			G4/12000
FVH	(80°-90°)	511.2	1.7			G4/750
BL	(0°-30°)	984.1	3.3	B2/1000		
BM	(30°-60°)	4691.7	15.8	B3/5000		
BH	(60°-80°)	8705.1	29.2	B5		G4/12000
BVH	(80°-90°)	511.2	1.7			G4/750
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°	2454.9	2454.9	2454.9	2454.9	2454.9	2454.9	2454.9	2454.9	2454.9	2454.9	2454.9
2.5°	2432.3	2437.9	2426.5	2426.5	2426.5	2420.9	2426.5	2420.9	2426.5	2432.3	2432.3
5°	2409.6	2409.6	2398.2	2398.2	2398.2	2392.6	2398.2	2398.2	2403.9	2409.6	2409.6
7.5°	2358.5	2358.5	2352.9	2347.2	2341.5	2341.5	2347.2	2347.2	2352.9	2358.5	2358.5
10°	2330.2	2324.6	2313.2	2296.1	2290.5	2284.9	2296.1	2307.5	2324.6	2341.5	2335.8
12.5°	2318.8	2313.2	2290.5	2273.5	2262.2	2267.8	2279.1	2290.5	2318.8	2335.8	2330.2
15°	2330.2	2318.8	2290.5	2262.2	2267.8	2279.1	2290.5	2290.5	2324.6	2341.5	2341.5
17.5°	2330.2	2324.6	2290.5	2267.8	2273.5	2290.5	2296.1	2290.5	2318.8	2347.2	2347.2
20°	2335.8	2335.8	2290.5	2273.5	2279.1	2296.1	2301.8	2296.1	2318.8	2352.9	2352.9
22.5°	2347.2	2341.5	2296.1	2284.9	2296.1	2307.5	2313.2	2307.5	2330.2	2358.5	2364.2
25°	2369.9	2358.5	2318.8	2313.2	2335.8	2352.9	2352.9	2341.5	2352.9	2381.2	2381.2
27.5°	2398.2	2392.6	2347.2	2347.2	2375.5	2409.6	2392.6	2369.9	2381.2	2409.6	2409.6
30°	2449.3	2443.6	2398.2	2398.2	2437.9	2477.6	2437.9	2409.6	2426.5	2454.9	2460.6
32.5°	2522.9	2522.9	2483.2	2472.0	2540.0	2557.0	2540.0	2483.2	2494.6	2534.3	2534.3
35°	2647.7	2636.3	2596.7	2591.0	2659.1	2653.3	2647.7	2596.7	2608.0	2653.3	2653.3
37.5°	2812.1	2806.5	2772.4	2755.4	2789.4	2766.8	2778.0	2755.4	2783.8	2817.7	2823.4
40°	3021.9	3016.2	2987.8	2965.1	2976.5	2942.5	2953.9	2965.1	2993.6	3016.2	3021.9
42.5°	3282.6	3282.6	3254.3	3214.6	3197.6	3180.7	3180.7	3203.3	3231.6	3259.9	3259.9
45°	3605.8	3605.8	3571.8	3532.1	3481.1	3452.8	3464.1	3486.7	3520.8	3554.8	3566.1
47.5°	3985.7	3985.7	3940.3	3900.6	3849.7	3815.6	3815.6	3827.0	3878.0	3906.3	3923.3
50°	4410.9	4393.9	4348.6	4308.9	4280.5	4235.1	4240.8	4235.1	4280.5	4320.2	4331.6
52.5°	4853.1	4847.5	4802.1	4790.8	4807.8	4785.1	4785.1	4728.4	4745.4	4768.1	4762.4
55°	5403.1	5386.0	5346.4	5369.1	5437.1	5471.2	5459.8	5369.1	5318.0	5329.4	5323.7
57.5°	6004.0	5987.0	5975.7	6043.7	6196.8	6338.5	6310.2	6100.5	6004.0	6009.7	6015.4
60°	6616.3	6616.3	6650.4	6820.4	7149.3	7381.7	7296.7	6945.2	6775.1	6741.0	6729.8
62.5°	7245.7	7262.6	7336.4	7619.9	8124.5	8510.0	8294.5	7795.6	7540.5	7472.5	7449.7
65°	7977.1	7994.1	8101.8	8453.3	9122.3	9581.6	9213.0	8742.4	8385.2	8243.6	8220.8
67.5°	9037.3	9048.6	9133.6	9473.9	10103.2	10471.6	10091.8	9672.2	9286.8	9122.3	9110.9
70°	9989.7	10001.1	10074.7	10522.7	11101.0	11231.4	10811.8	10278.9	9876.4	9746.0	9723.2
72.5°	9774.3	9814.0	10057.8	10755.1	11645.3	11815.3	10930.8	10131.5	9485.1	9269.7	9201.6
75°	8198.1	8260.5	8646.1	9694.9	11112.3	11594.2	10227.9	8759.4	7795.6	7381.7	7274.0
77.5°	4785.1	5017.6	5680.9	7024.6	9048.6	10029.4	8424.9	6412.3	4790.8	4110.4	3883.6
80°	1309.7	1434.4	1916.3	3231.6	5675.2	7024.6	5374.7	2942.5	1587.5	1190.6	1105.6
82.5°	413.9	549.9	697.3	929.8	2228.1	3702.3	1995.7	867.5	680.4	561.3	498.9
85°	221.2	238.1	391.2	453.6	669.0	1037.5	618.0	453.6	408.2	300.4	283.5
87.5°	113.3	119.1	221.2	221.2	294.8	243.8	266.5	243.8	232.4	147.4	130.4
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)