

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: P236740

Luminaire Tested: **ARCH-L-AF72-270-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236740
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-AF72-270-D-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31325.8 lumens
Efficiency: N/A
Efficacy: 114.7 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

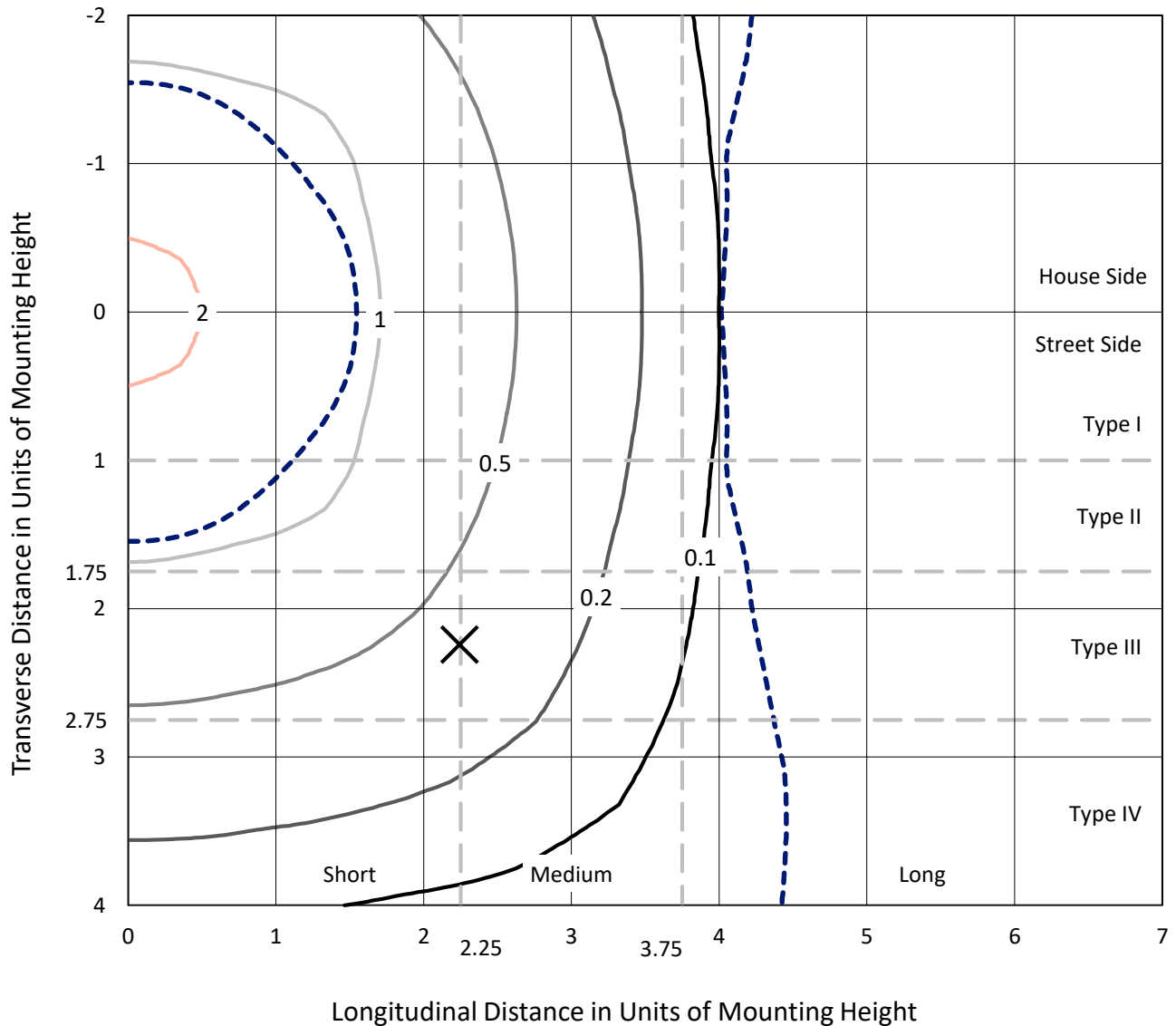
Input Watts (W): 273
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P236740
 CATALOG NUMBER: ARCH-L-AF72-270-D-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

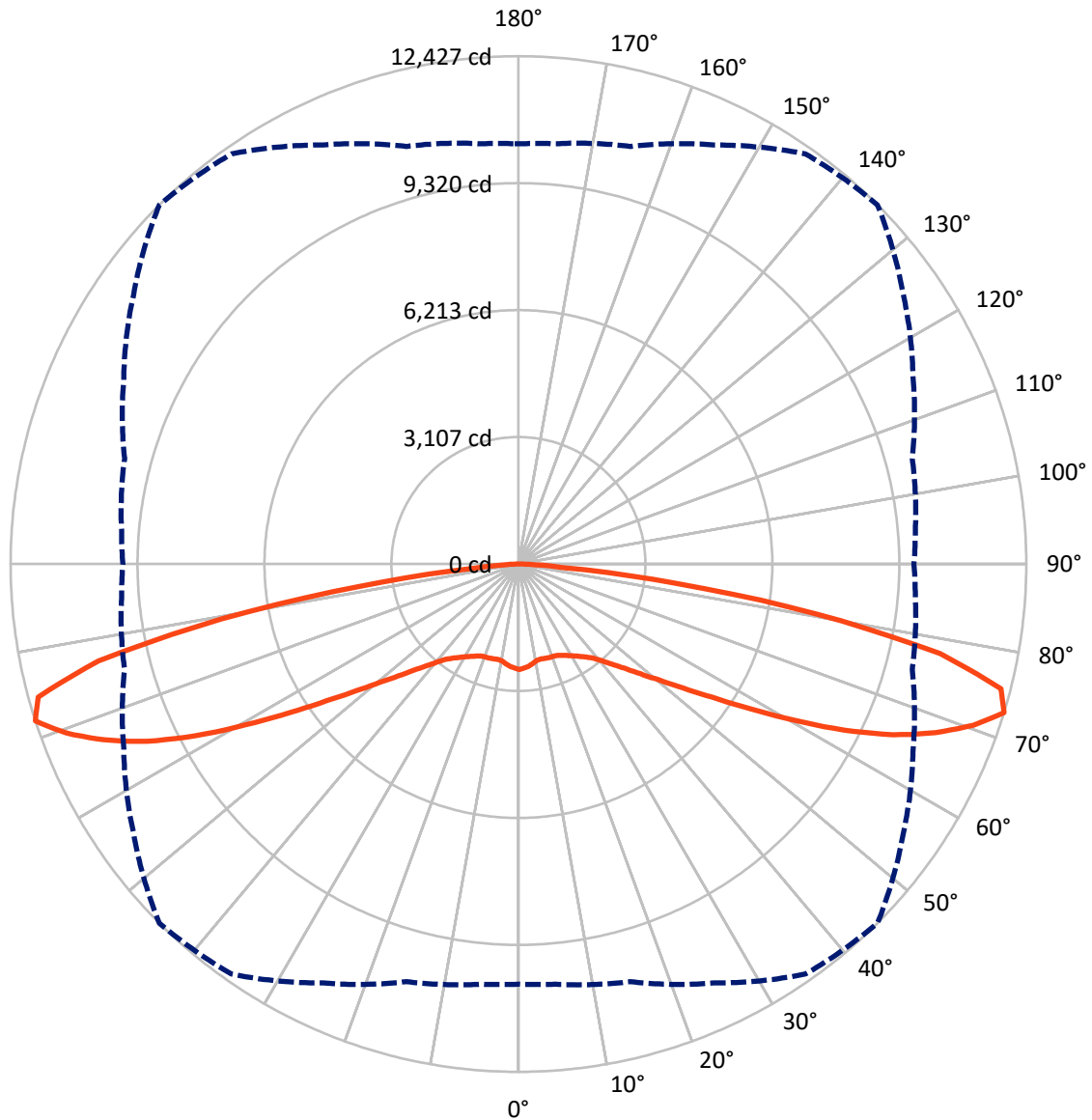


Based on 30 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P236740

CATALOG NUMBER: ARCH-L-AF72-270-D-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P236740

CATALOG NUMBER: ARCH-L-AF72-270-D-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15662.9	0.0	15662.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15662.9	0.0	15662.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	31325.8	0.0	31325.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	0.8
10°-20°	685.5	2.2
20°-30°	1147.1	3.7
30°-40°	1762.5	5.6
40°-50°	2918.3	9.3
50°-60°	5188.2	16.6
60°-70°	9076.6	29.0
70°-80°	9234.7	29.5
80°-90°	1075.3	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°	31325.8	100.0
0°-180°	31325.8	100.0



REPORT NUMBER: P236740

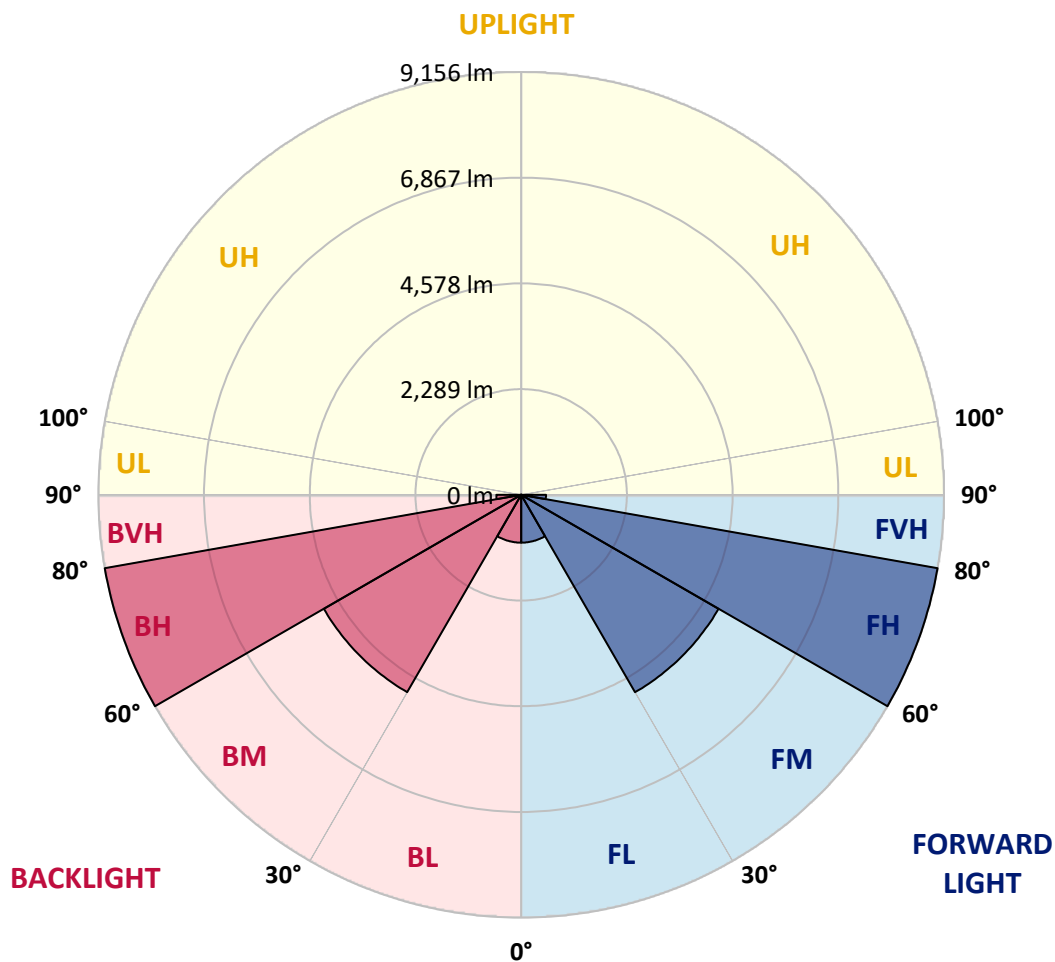
CATALOG NUMBER: ARCH-L-AF72-270-D-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1035.1	3.3			
FM	(30°-60°)	4934.5	15.8			
FH	(60°-80°)	9155.7	29.2			G4/12000
FVH	(80°-90°)	537.7	1.7			G4/750
BL	(0°-30°)	1035.1	3.3	B3/2500		
BM	(30°-60°)	4934.5	15.8	B3/5000		
BH	(60°-80°)	9155.7	29.2	B5		G4/12000
BVH	(80°-90°)	537.7	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





REPORT NUMBER: P236740

CATALOG NUMBER: ARCH-L-AF72-270-D-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2581.9	2581.9	2581.9	2581.9	2581.9	2581.9	2581.9	2581.9	2581.9	2581.9	2581.9
2.5°	2558.1	2564.1	2552.2	2552.2	2552.2	2546.2	2552.2	2546.2	2552.2	2558.1	2558.1
5°	2534.3	2534.3	2522.4	2522.4	2522.4	2516.4	2522.4	2522.4	2528.3	2534.3	2534.3
7.5°	2480.7	2480.7	2474.6	2468.7	2462.8	2462.8	2468.7	2468.7	2474.6	2480.7	2480.7
10°	2450.8	2444.9	2432.9	2415.0	2409.0	2403.1	2415.0	2427.0	2444.9	2462.8	2456.7
12.5°	2438.8	2432.9	2409.0	2391.1	2379.3	2385.2	2397.1	2409.0	2438.8	2456.7	2450.8
15°	2450.8	2438.8	2409.0	2379.3	2385.2	2397.1	2409.0	2409.0	2444.9	2462.8	2462.8
17.5°	2450.8	2444.9	2409.0	2385.2	2391.1	2409.0	2415.0	2409.0	2438.8	2468.7	2468.7
20°	2456.7	2456.7	2409.0	2391.1	2397.1	2415.0	2421.0	2415.0	2438.8	2474.6	2474.6
22.5°	2468.7	2462.8	2415.0	2403.1	2415.0	2427.0	2432.9	2427.0	2450.8	2480.7	2486.6
25°	2492.5	2480.7	2438.8	2432.9	2456.7	2474.6	2474.6	2462.8	2474.6	2504.5	2504.5
27.5°	2522.4	2516.4	2468.7	2468.7	2498.5	2534.3	2516.4	2492.5	2504.5	2534.3	2534.3
30°	2576.0	2570.1	2522.4	2522.4	2564.1	2605.9	2564.1	2534.3	2552.2	2581.9	2588.0
32.5°	2653.5	2653.5	2611.8	2599.8	2671.4	2689.3	2671.4	2611.8	2623.8	2665.5	2665.5
35°	2784.7	2772.8	2731.1	2725.0	2796.6	2790.7	2784.7	2731.1	2742.9	2790.7	2790.7
37.5°	2957.7	2951.7	2915.9	2898.0	2933.8	2910.0	2921.9	2898.0	2927.8	2963.6	2969.5
40°	3178.3	3172.3	3142.5	3118.7	3130.5	3094.8	3106.7	3118.7	3148.4	3172.3	3178.3
42.5°	3452.6	3452.6	3422.8	3381.1	3363.2	3345.3	3345.3	3369.1	3398.9	3428.7	3428.7
45°	3792.5	3792.5	3756.7	3714.9	3661.2	3631.5	3643.3	3667.3	3703.0	3738.8	3750.8
47.5°	4192.0	4192.0	4144.3	4102.5	4048.8	4013.1	4013.1	4025.0	4078.7	4108.5	4126.4
50°	4639.2	4621.3	4573.6	4531.9	4502.1	4454.3	4460.3	4454.3	4502.1	4543.8	4555.7
52.5°	5104.3	5098.4	5050.6	5038.7	5056.7	5032.8	5032.8	4973.2	4991.0	5014.9	5008.9
55°	5682.7	5664.8	5623.1	5647.0	5718.5	5754.3	5742.3	5647.0	5593.3	5605.3	5599.2
57.5°	6314.8	6296.9	6285.0	6356.5	6517.5	6666.7	6636.8	6416.2	6314.8	6320.8	6326.7
60°	6958.8	6958.8	6994.6	7173.4	7519.3	7763.8	7674.4	7304.7	7125.8	7090.0	7078.1
62.5°	7620.7	7638.6	7716.1	8014.3	8545.0	8950.4	8723.8	8199.2	7930.7	7859.2	7835.4
65°	8389.9	8407.8	8521.1	8890.8	9594.5	10077.5	9689.9	9194.9	8819.3	8670.2	8646.4
67.5°	9505.1	9516.9	9606.4	9964.2	10626.0	11013.6	10614.1	10172.8	9767.3	9594.5	9582.5
70°	10506.8	10518.7	10596.2	11067.3	11675.6	11812.7	11371.4	10811.0	10387.6	10250.4	10226.5
72.5°	10280.2	10322.0	10578.3	11311.8	12248.0	12426.9	11496.6	10655.9	9976.1	9749.5	9677.9
75°	8622.5	8688.1	9093.5	10196.7	11687.4	12194.3	10757.2	9212.8	8199.2	7763.8	7650.5
77.5°	5032.8	5277.2	5975.0	7388.2	9516.9	10548.6	8861.0	6744.1	5038.7	4323.2	4084.6
80°	1377.4	1508.6	2015.5	3398.9	5968.9	7388.2	5652.9	3094.8	1669.7	1252.2	1162.8
82.5°	435.3	578.4	733.5	977.9	2343.5	3893.9	2099.0	912.4	715.6	590.3	524.8
85°	232.5	250.4	411.4	477.0	703.6	1091.2	650.0	477.0	429.3	316.0	298.2
87.5°	119.3	125.2	232.5	232.5	310.1	256.5	280.3	256.5	244.5	155.1	137.2
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)