

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: P236741

Luminaire Tested: **ARCH-L-AF72-280-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236741
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-AF72-280-D-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31791.3 lumens
Efficiency: N/A
Efficacy: 113.9 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): 279
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

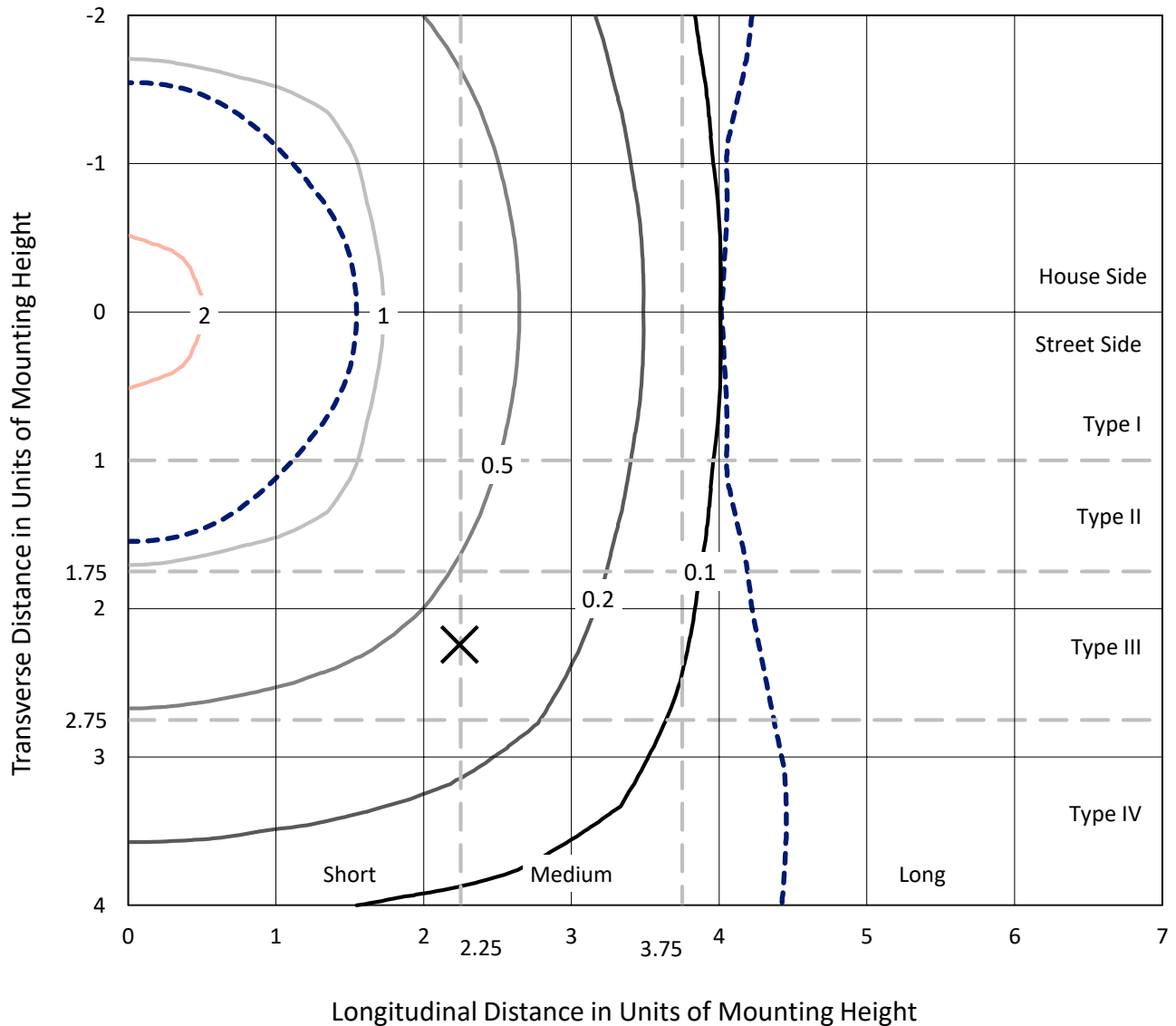


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Iso-Footcandle Lines of Horizontal Illumination

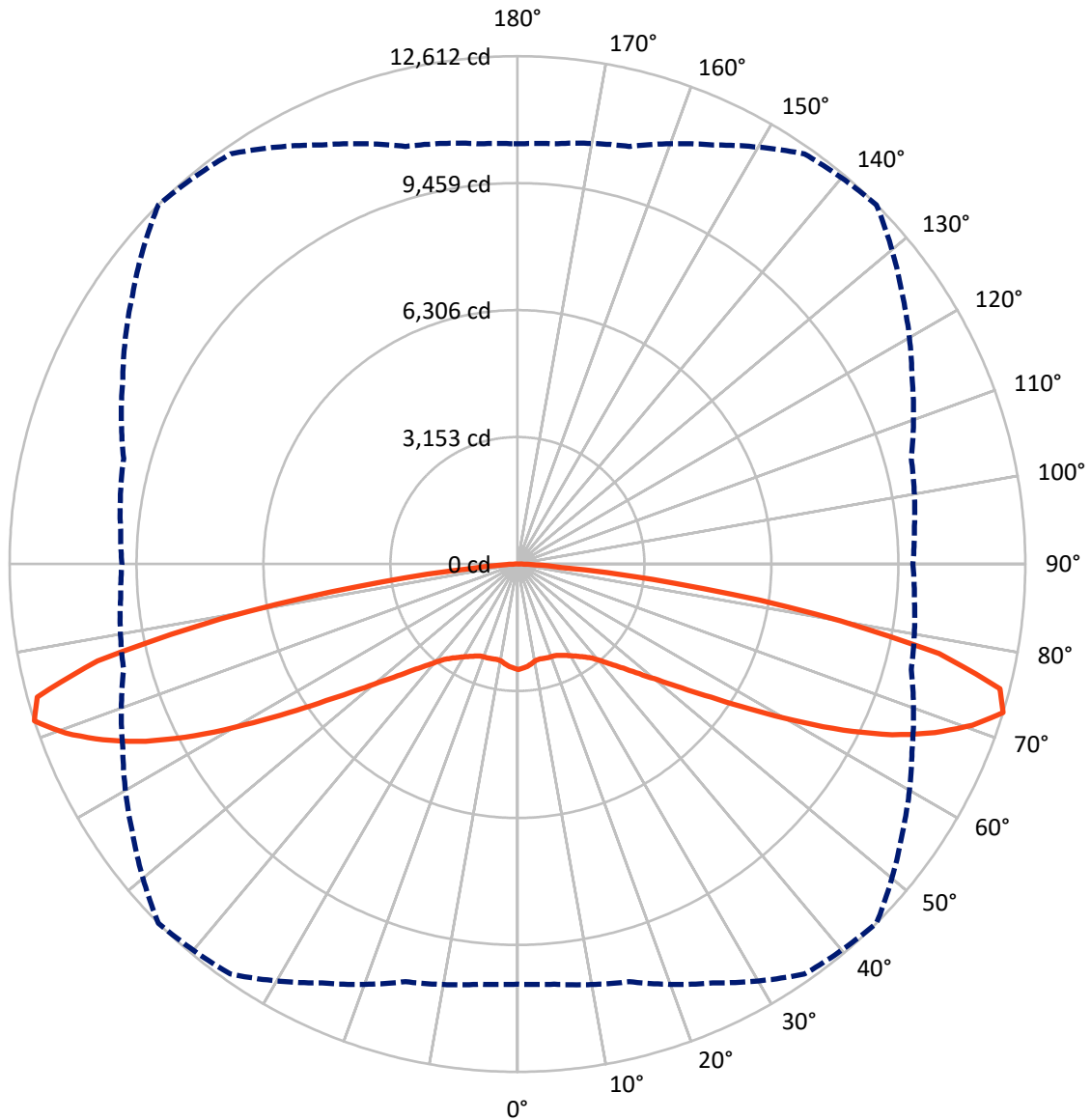
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.9 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	15895.6	0.0	15895.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15895.6	0.0	15895.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	31791.3	0.0	31791.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.1	0.8
10°-20°	695.7	2.2
20°-30°	1164.1	3.7
30°-40°	1788.7	5.6
40°-50°	2961.7	9.3
50°-60°	5265.3	16.6
60°-70°	9211.5	29.0
70°-80°	9371.9	29.5
80°-90°	1091.3	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°	31791.3	100.0
0°-180°	31791.3	100.0



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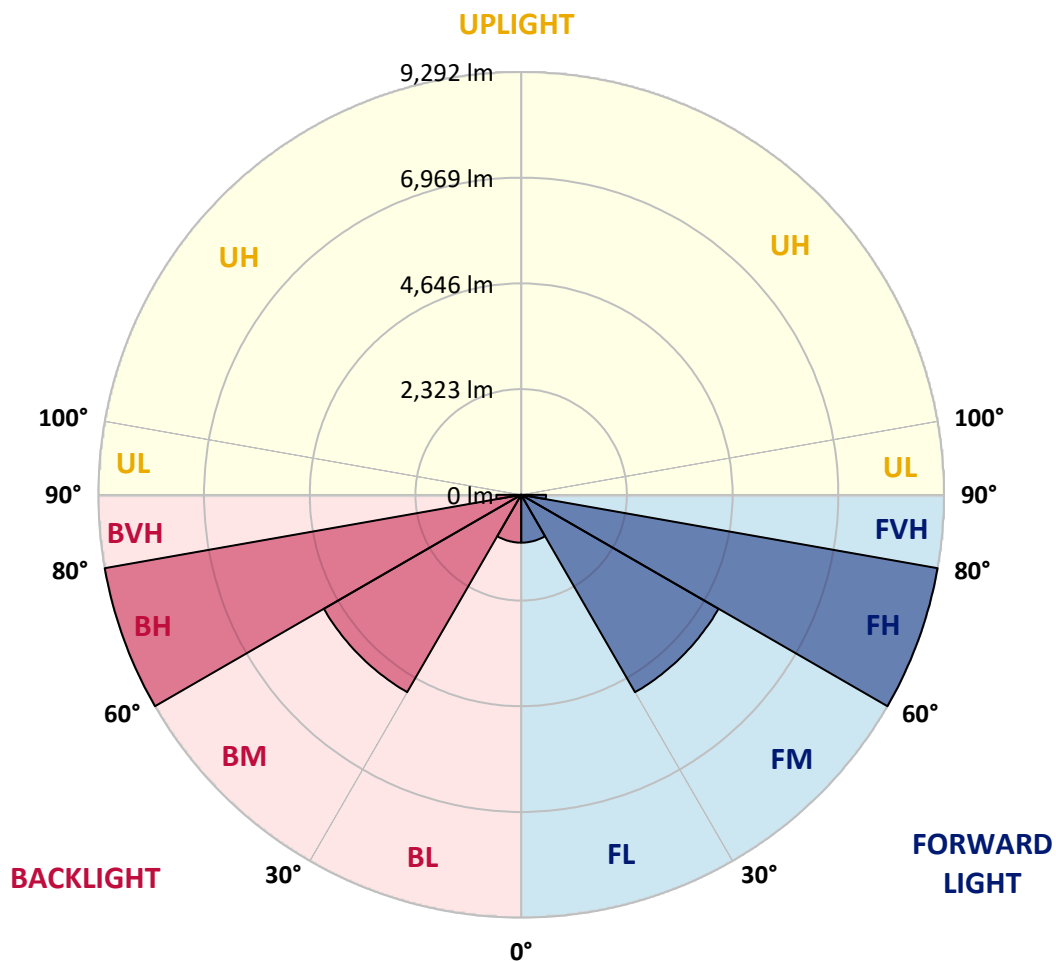
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1050.5	3.3			
FM	(30°-60°)	5007.8	15.8			
FH	(60°-80°)	9291.7	29.2			G4/12000
FVH	(80°-90°)	545.7	1.7			G4/750
BL	(0°-30°)	1050.5	3.3	B3/2500		
BM	(30°-60°)	5007.8	15.8	B4/8500		
BH	(60°-80°)	9291.7	29.2	B5		G4/12000
BVH	(80°-90°)	545.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2620.3	2620.3	2620.3	2620.3	2620.3	2620.3	2620.3	2620.3	2620.3	2620.3	2620.3
2.5°	2596.1	2602.2	2590.1	2590.1	2590.1	2584.1	2590.1	2584.1	2590.1	2596.1	2596.1
5°	2571.9	2571.9	2559.8	2559.8	2559.8	2553.8	2559.8	2559.8	2565.9	2571.9	2571.9
7.5°	2517.5	2517.5	2511.4	2505.3	2499.3	2499.3	2505.3	2505.3	2511.4	2517.5	2517.5
10°	2487.2	2481.2	2469.1	2450.9	2444.9	2438.8	2450.9	2463.0	2481.2	2499.3	2493.2
12.5°	2475.1	2469.1	2444.9	2426.6	2414.6	2420.6	2432.8	2444.9	2475.1	2493.2	2487.2
15°	2487.2	2475.1	2444.9	2414.6	2420.6	2432.8	2444.9	2444.9	2481.2	2499.3	2499.3
17.5°	2487.2	2481.2	2444.9	2420.6	2426.6	2444.9	2450.9	2444.9	2475.1	2505.3	2505.3
20°	2493.2	2493.2	2444.9	2426.6	2432.8	2450.9	2456.9	2450.9	2475.1	2511.4	2511.4
22.5°	2505.3	2499.3	2450.9	2438.8	2450.9	2463.0	2469.1	2463.0	2487.2	2517.5	2523.5
25°	2529.6	2517.5	2475.1	2469.1	2493.2	2511.4	2511.4	2499.3	2511.4	2541.6	2541.6
27.5°	2559.8	2553.8	2505.3	2505.3	2535.6	2571.9	2553.8	2529.6	2541.6	2571.9	2571.9
30°	2614.3	2608.2	2559.8	2559.8	2602.2	2644.5	2602.2	2571.9	2590.1	2620.3	2626.4
32.5°	2692.9	2692.9	2650.6	2638.5	2711.1	2729.2	2711.1	2650.6	2662.7	2705.1	2705.1
35°	2826.1	2814.0	2771.6	2765.5	2838.2	2832.1	2826.1	2771.6	2783.8	2832.1	2832.1
37.5°	3001.5	2995.5	2959.2	2941.1	2977.4	2953.2	2965.3	2941.1	2971.4	3007.7	3013.7
40°	3225.5	3219.4	3189.2	3165.0	3177.1	3140.8	3152.8	3165.0	3195.3	3219.4	3225.5
42.5°	3503.9	3503.9	3473.6	3431.3	3413.1	3395.0	3395.0	3419.1	3449.4	3479.7	3479.7
45°	3848.9	3848.9	3812.5	3770.2	3715.7	3685.4	3697.6	3721.7	3758.0	3794.3	3806.4
47.5°	4254.2	4254.2	4205.9	4163.5	4109.0	4072.7	4072.7	4084.8	4139.3	4169.5	4187.7
50°	4708.1	4690.0	4641.5	4599.2	4568.9	4520.5	4526.6	4520.5	4568.9	4611.4	4623.4
52.5°	5180.1	5174.1	5125.7	5113.6	5131.7	5107.6	5107.6	5047.0	5065.1	5089.4	5083.3
55°	5767.2	5749.0	5706.6	5730.9	5803.5	5839.8	5827.6	5730.9	5676.4	5688.5	5682.5
57.5°	6408.7	6390.5	6378.4	6451.0	6614.4	6765.7	6735.4	6511.5	6408.7	6414.7	6420.8
60°	7062.2	7062.2	7098.6	7280.0	7631.0	7879.2	7788.4	7413.2	7231.6	7195.3	7183.3
62.5°	7733.9	7752.1	7830.8	8133.4	8672.0	9083.4	8853.4	8321.0	8048.6	7975.9	7951.8
65°	8514.6	8532.7	8647.7	9022.9	9737.1	10227.2	9833.8	9331.6	8950.3	8799.0	8774.8
67.5°	9646.2	9658.3	9749.1	10112.2	10783.9	11177.3	10771.9	10324.0	9912.5	9737.1	9724.9
70°	10662.9	10675.0	10753.7	11231.8	11849.0	11988.2	11540.4	10971.6	10541.9	10402.7	10378.4
72.5°	10433.0	10475.3	10735.6	11479.9	12430.0	12611.6	11667.5	10814.2	10124.3	9894.4	9821.8
75°	8750.6	8817.1	9228.7	10348.2	11861.1	12375.5	10917.0	9349.7	8321.0	7879.2	7764.2
77.5°	5107.6	5355.7	6063.6	7497.9	9658.3	10705.3	8992.7	6844.4	5113.6	4387.4	4145.3
80°	1398.0	1531.1	2045.4	3449.4	6057.6	7497.9	5736.9	3140.8	1694.4	1270.8	1180.1
82.5°	441.8	587.0	744.3	992.5	2378.3	3951.7	2130.2	925.9	726.2	599.1	532.5
85°	236.0	254.2	417.6	484.2	714.1	1107.4	659.6	484.2	435.7	320.7	302.6
87.5°	121.0	127.1	236.0	236.0	314.7	260.2	284.4	260.2	248.1	157.3	139.2
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)