

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: P400208

Luminaire Tested: **ARCH-L-PA3-250-730-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-250-730-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 31507 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

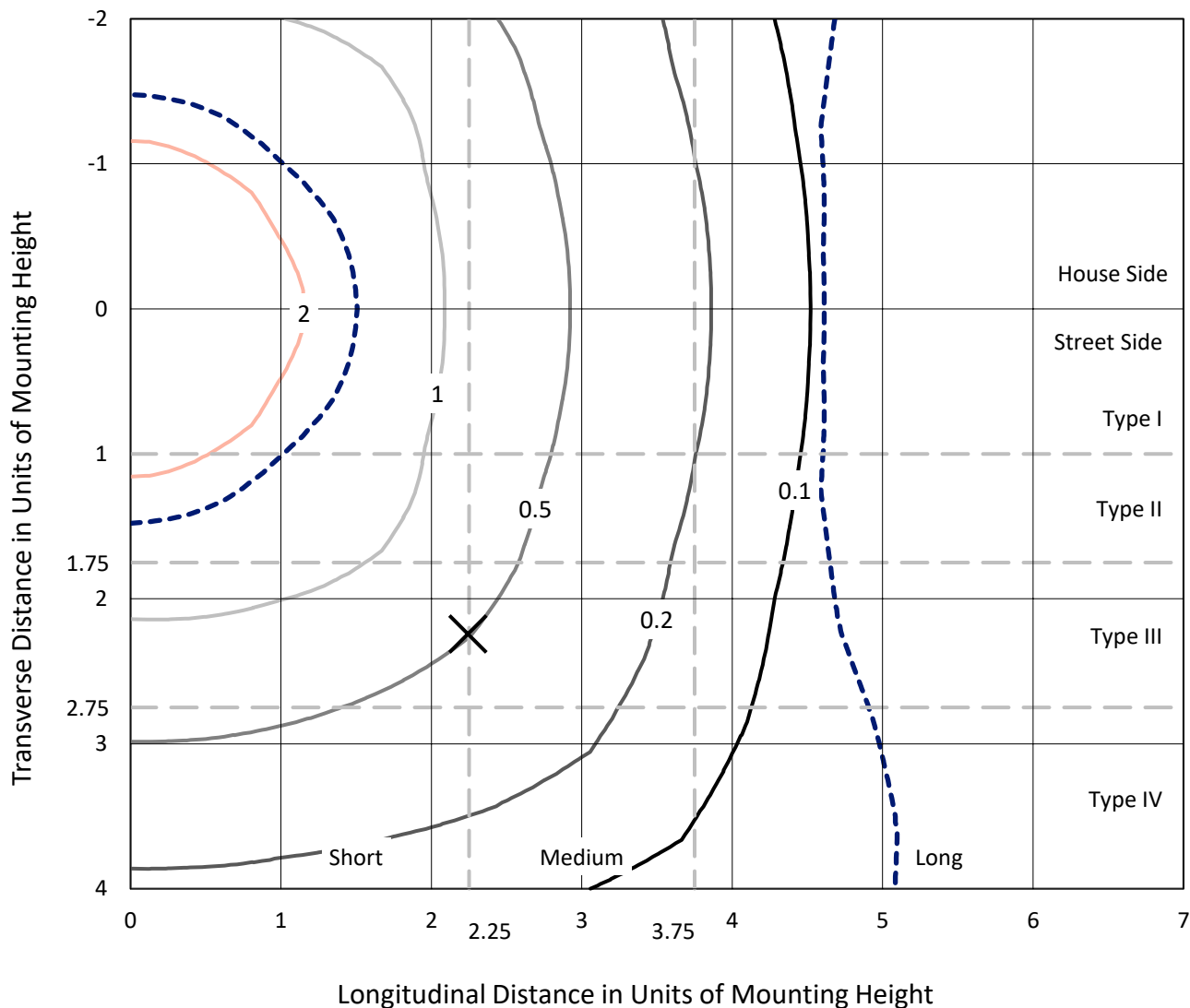
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

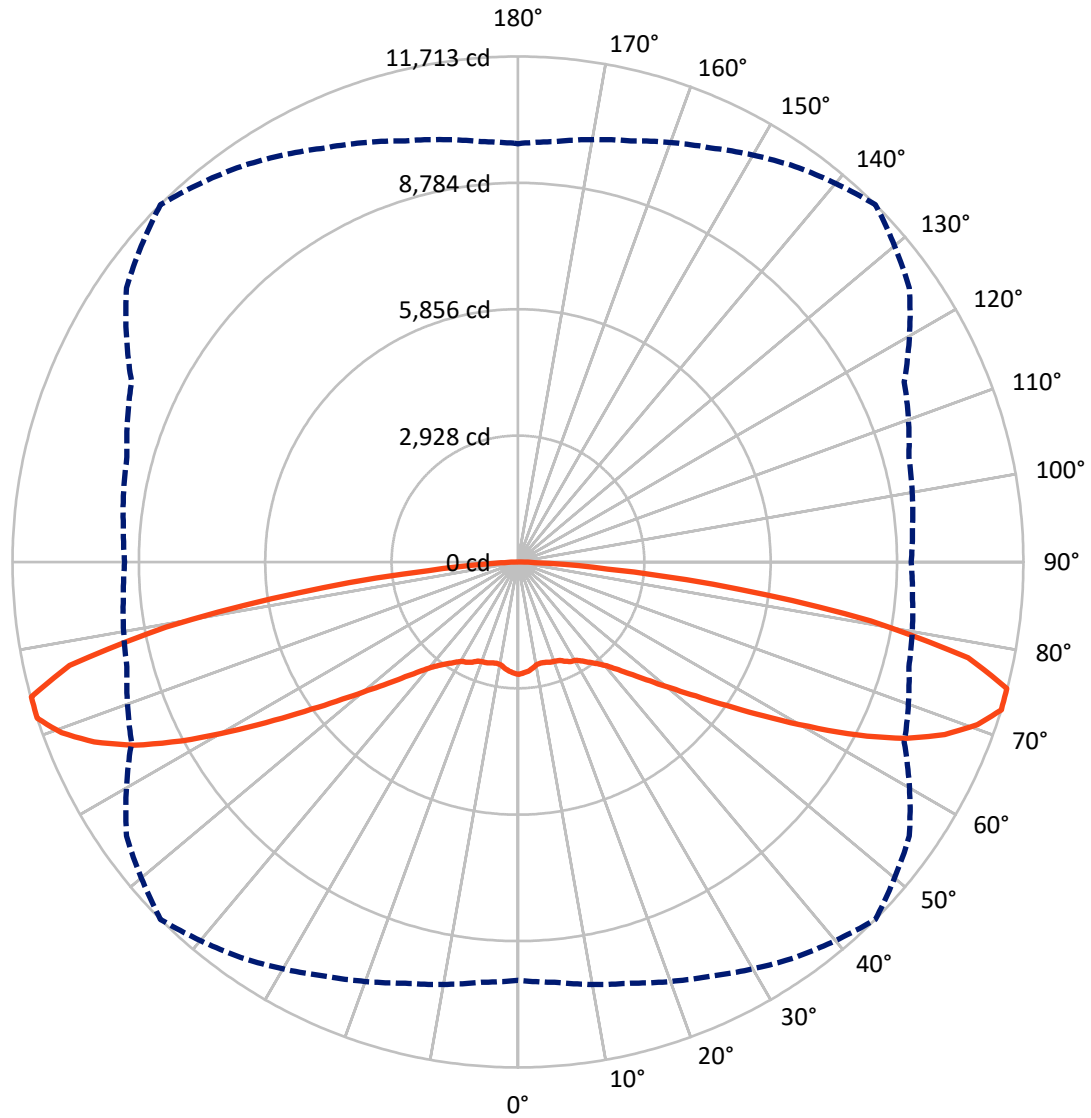
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

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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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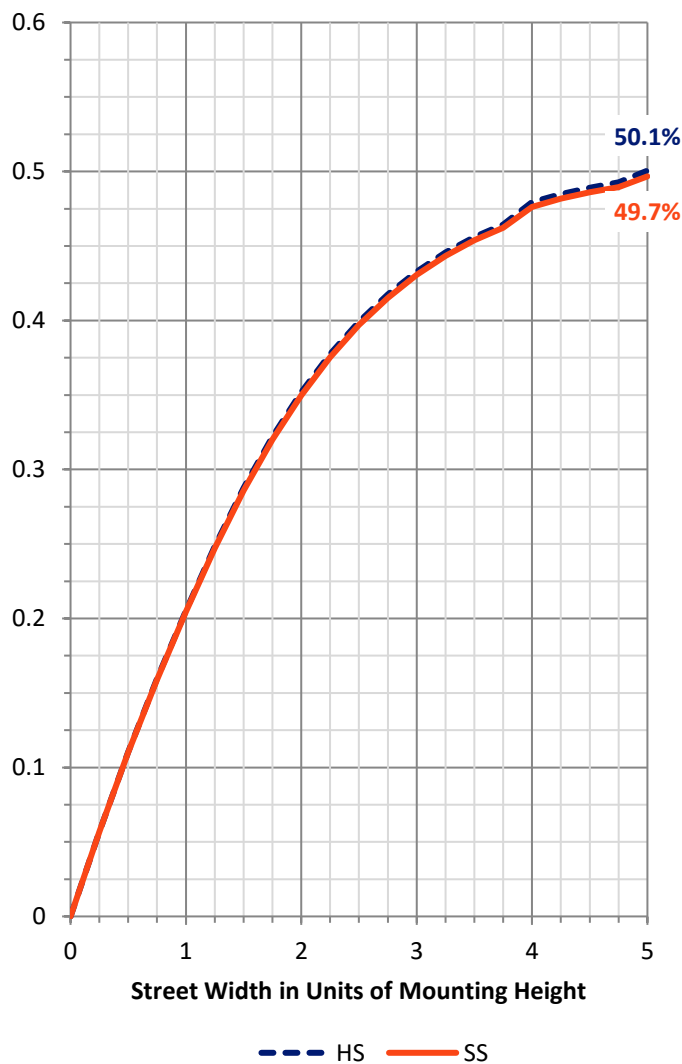
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15753.5	0.0	15753.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15753.5	0.0	15753.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31507.0	0.0	31507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.1	0.8
10°-20°	694.0	2.2
20°-30°	1179.2	3.7
30°-40°	1798.6	5.7
40°-50°	2961.5	9.4
50°-60°	5171.7	16.4
60°-70°	8670.4	27.5
70°-80°	9279.2	29.5
80°-90°	1513.4	4.8
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°	31507.0	100.0
0°-180°	31507.0	100.0

Coefficient of Utilization



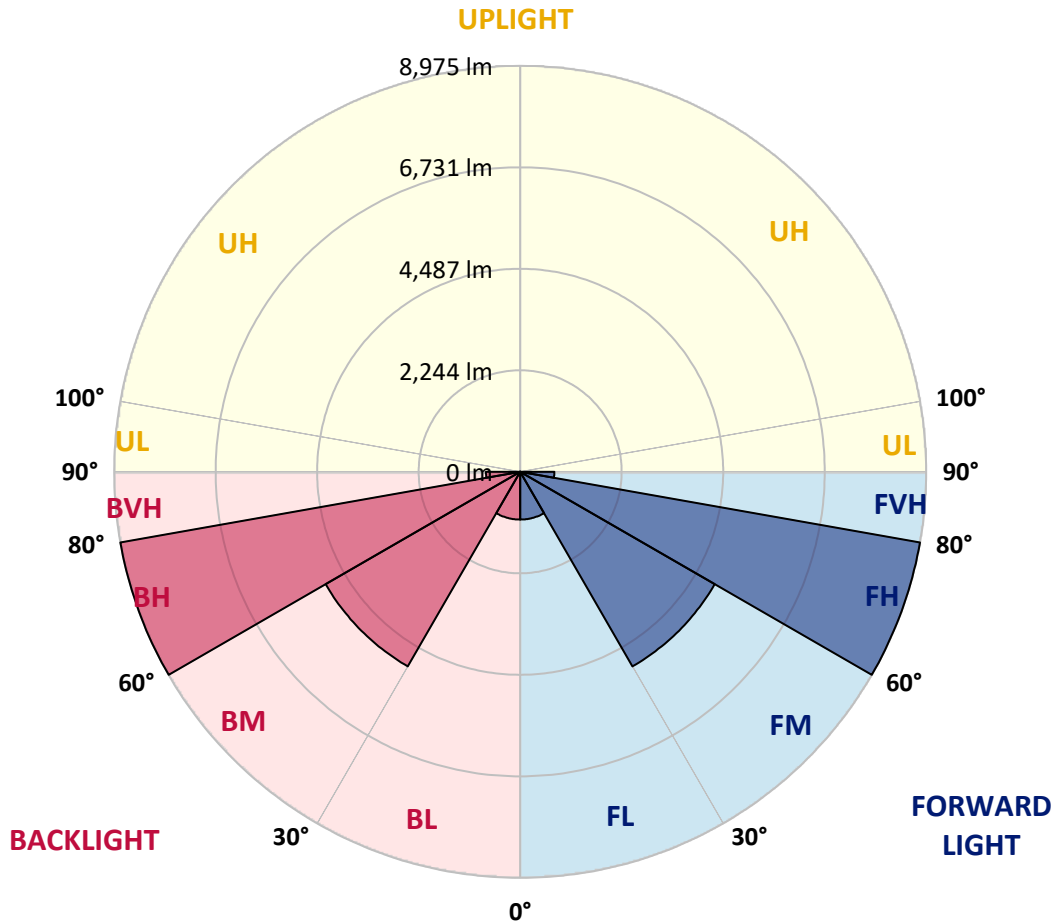
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1056.1	3.4			
FM (30°-60°)	4965.9	15.8			
FH (60°-80°)	8974.8	28.5			G4/12000
FVH (80°-90°)	756.7	2.4			G5
BL (0°-30°)	1056.1	3.4	B3/2500		
BM (30°-60°)	4965.9	15.8	B3/5000		
BH (60°-80°)	8974.8	28.5	B5		G4/12000
BVH (80°-90°)	756.7	2.4			G5
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2607.2	2607.2	2607.2	2607.2	2607.2	2607.2	2607.2	2607.2	2607.2	2607.2	2607.2
2.5°	2591.1	2591.1	2591.1	2587.1	2579.1	2575.1	2567.0	2571.0	2571.0	2571.0	2571.0
5°	2559.0	2559.0	2554.9	2550.9	2542.9	2538.8	2530.8	2538.8	2538.8	2538.8	2538.8
7.5°	2498.6	2502.6	2502.6	2498.6	2486.5	2482.5	2470.4	2474.5	2474.5	2478.5	2474.5
10°	2466.4	2466.4	2462.4	2442.3	2422.2	2414.1	2410.1	2422.2	2434.2	2446.3	2446.3
12.5°	2466.4	2466.4	2458.4	2426.2	2398.0	2398.0	2398.0	2414.1	2438.3	2462.4	2466.4
15°	2478.5	2478.5	2462.4	2426.2	2410.1	2414.1	2414.1	2430.2	2458.4	2490.6	2494.6
17.5°	2486.5	2486.5	2466.4	2430.2	2430.2	2442.3	2434.2	2446.3	2474.5	2510.7	2514.7
20°	2498.6	2498.6	2470.4	2442.3	2442.3	2454.3	2454.3	2466.4	2490.6	2526.8	2530.8
22.5°	2522.7	2518.7	2490.6	2466.4	2466.4	2474.5	2482.5	2498.6	2518.7	2550.9	2559.0
25°	2550.9	2550.9	2526.8	2522.7	2530.8	2550.9	2546.9	2542.9	2550.9	2579.1	2591.1
27.5°	2567.0	2567.0	2550.9	2563.0	2595.2	2611.3	2591.1	2575.1	2575.1	2603.2	2607.2
30°	2619.3	2615.3	2599.2	2607.2	2635.4	2643.5	2631.4	2611.3	2623.3	2655.5	2659.5
32.5°	2707.8	2707.8	2683.7	2683.7	2703.8	2736.0	2695.8	2683.7	2699.8	2736.0	2740.0
35°	2844.6	2844.6	2812.4	2796.3	2812.4	2856.7	2796.3	2792.3	2820.5	2860.7	2864.7
37.5°	3017.6	3017.6	2997.5	2957.3	2961.3	2989.5	2937.2	2933.1	2985.4	3029.7	3029.7
40°	3234.9	3247.0	3226.9	3178.6	3162.5	3166.5	3126.3	3130.3	3190.6	3243.0	3243.0
42.5°	3504.5	3512.5	3480.3	3444.1	3424.0	3411.9	3371.7	3379.8	3452.2	3520.6	3520.6
45°	3830.4	3834.4	3802.2	3758.0	3733.8	3725.8	3685.5	3705.7	3786.1	3858.6	3854.5
47.5°	4196.5	4200.6	4168.4	4124.1	4108.0	4120.1	4079.8	4079.8	4152.3	4212.6	4204.6
50°	4611.0	4619.0	4582.8	4562.7	4550.6	4582.8	4534.5	4490.2	4538.5	4598.9	4590.8
52.5°	5069.6	5089.7	5065.6	5073.7	5117.9	5158.1	5077.7	4981.1	5005.3	5045.5	5033.4
55°	5624.9	5649.0	5657.1	5685.2	5801.9	5870.3	5737.5	5576.6	5564.5	5568.5	5548.4
57.5°	6248.5	6264.6	6316.9	6381.3	6622.7	6731.3	6522.1	6244.5	6156.0	6103.7	6091.6
60°	6876.2	6904.4	7033.1	7165.9	7536.0	7733.2	7411.3	6944.6	6755.5	6658.9	6638.8
62.5°	7507.9	7564.2	7773.4	7998.8	8537.9	8831.6	8336.7	7660.8	7387.2	7266.5	7234.3
65°	8240.2	8308.6	8562.0	8847.7	9447.2	9861.6	9262.1	8401.1	8107.4	7946.4	7906.2
67.5°	9097.2	9169.6	9374.8	9692.7	10260.0	10666.3	10135.2	9157.5	8775.3	8570.1	8537.9
70°	9801.3	9865.7	10087.0	10408.8	10831.3	11294.0	10787.1	9761.1	9415.0	9270.2	9250.1
72.5°	9692.7	9777.1	10103.1	10585.9	11189.4	11712.5	11072.7	9877.7	9378.8	9177.6	9113.3
75°	8465.5	8558.0	8944.3	9817.4	10919.8	11700.4	10658.3	9101.2	8513.8	8344.8	8312.6
77.5°	5604.8	5693.3	6345.1	7721.1	9535.7	10662.3	9407.0	7624.6	6679.0	6272.7	6248.5
80°	2265.2	2377.9	3001.5	4462.1	6759.5	8288.4	6976.8	4880.5	3291.2	2655.5	2526.8
82.5°	527.1	627.7	913.3	1645.6	3460.2	5162.2	3762.0	1822.7	1058.2	752.4	676.0
85°	221.3	225.3	390.3	535.1	1082.3	2084.2	1231.2	663.9	539.2	394.3	386.3
87.5°	84.5	88.5	189.1	225.3	346.0	394.3	418.4	342.0	317.9	197.2	189.1
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)