

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: P400433

Luminaire Tested: **ARCH-L-PA3-280-740-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400433
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-PA3-280-740-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: 36929 lumens
Efficiency: N/A
Efficacy: 132.4 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

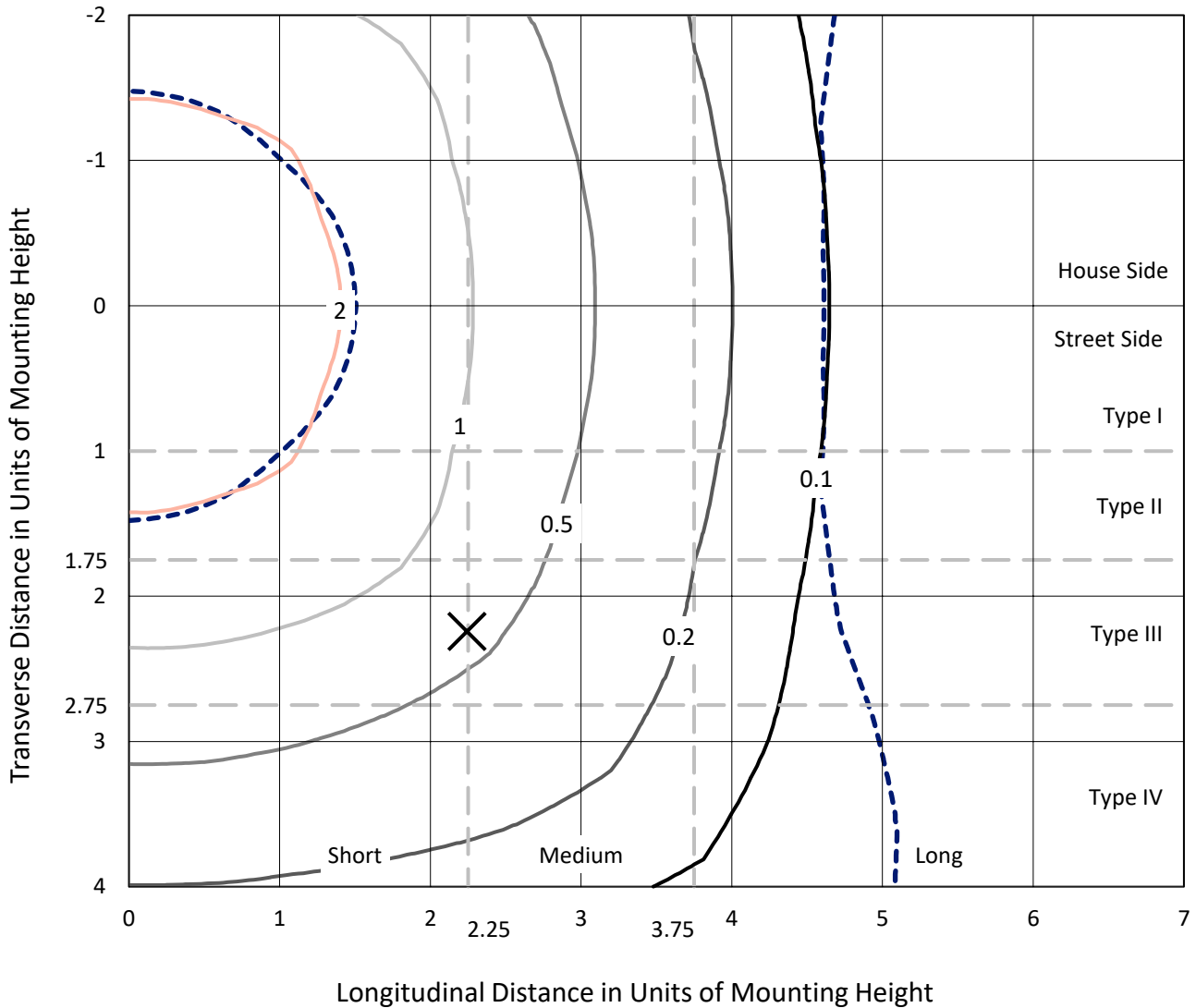
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

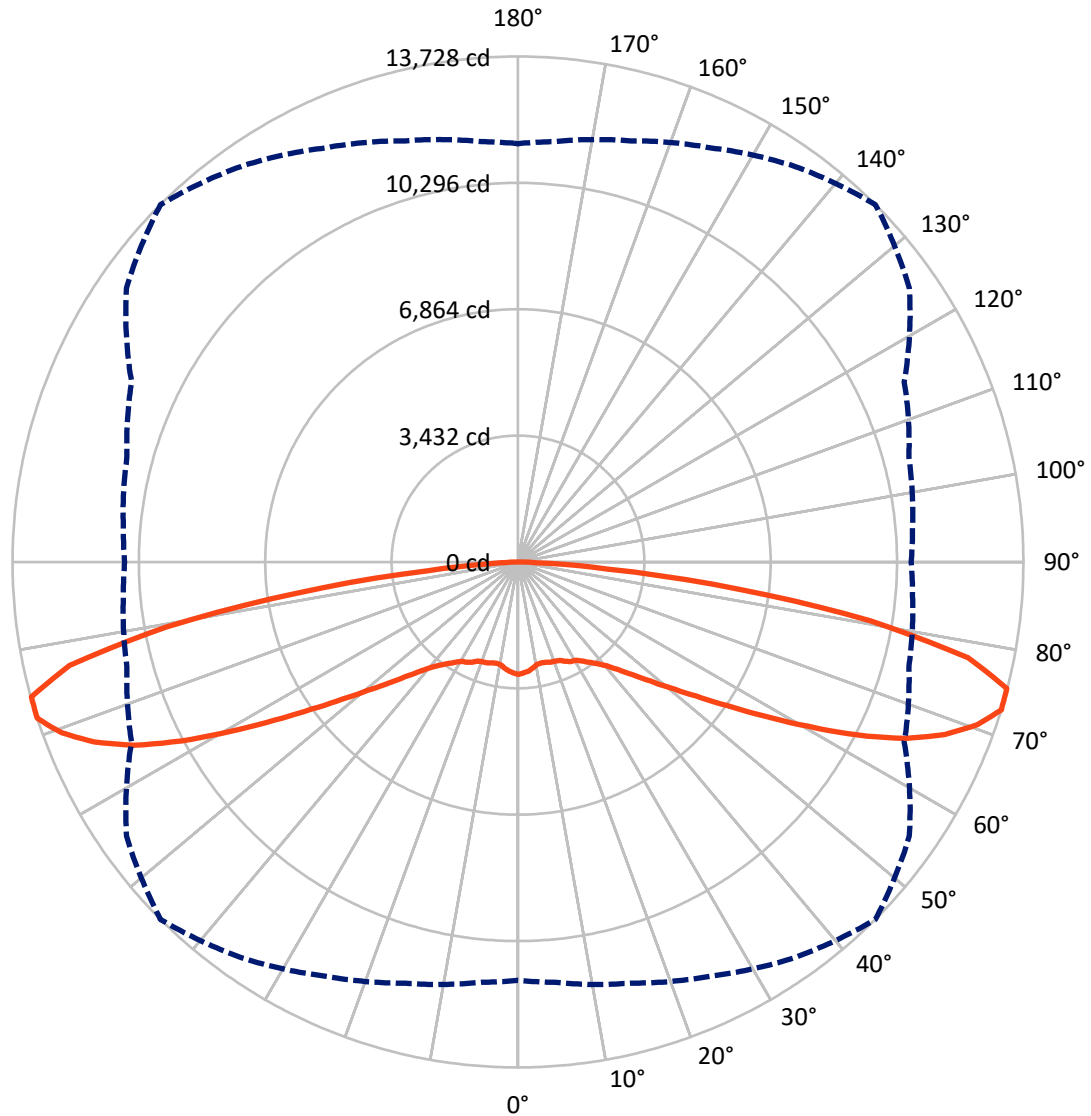
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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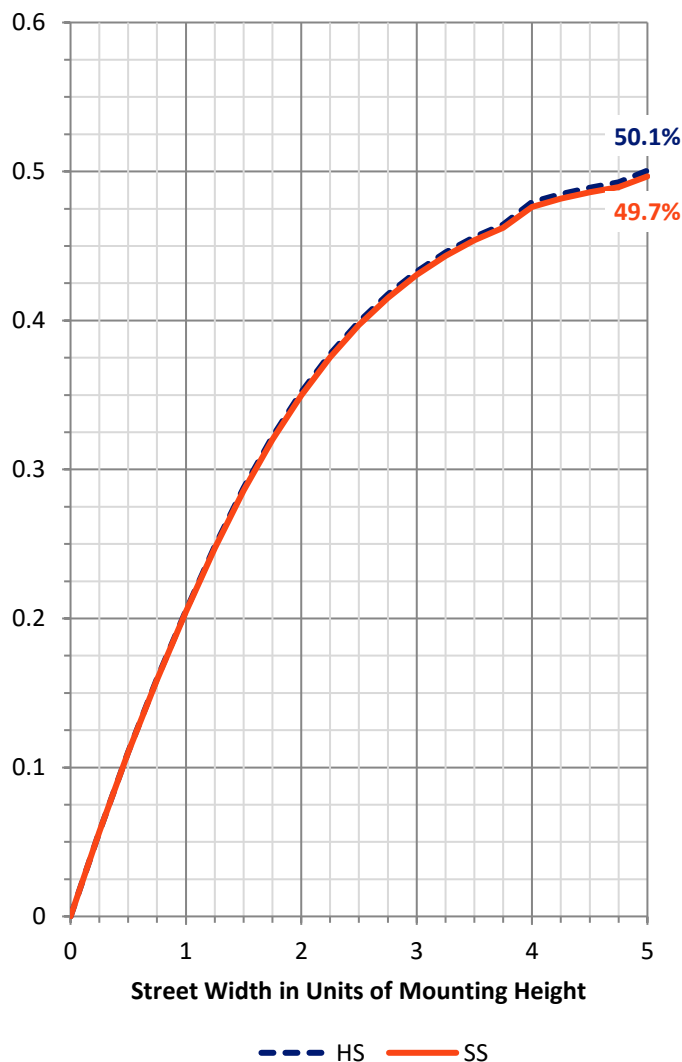
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18464.5	0.0	18464.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18464.5	0.0	18464.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36929.0	0.0	36929.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	0.8
10°-20°	813.4	2.2
20°-30°	1382.1	3.7
30°-40°	2108.1	5.7
40°-50°	3471.2	9.4
50°-60°	6061.7	16.4
60°-70°	10162.5	27.5
70°-80°	10876.0	29.5
80°-90°	1773.9	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°	36929.0	100.0
0°-180°	36929.0	100.0

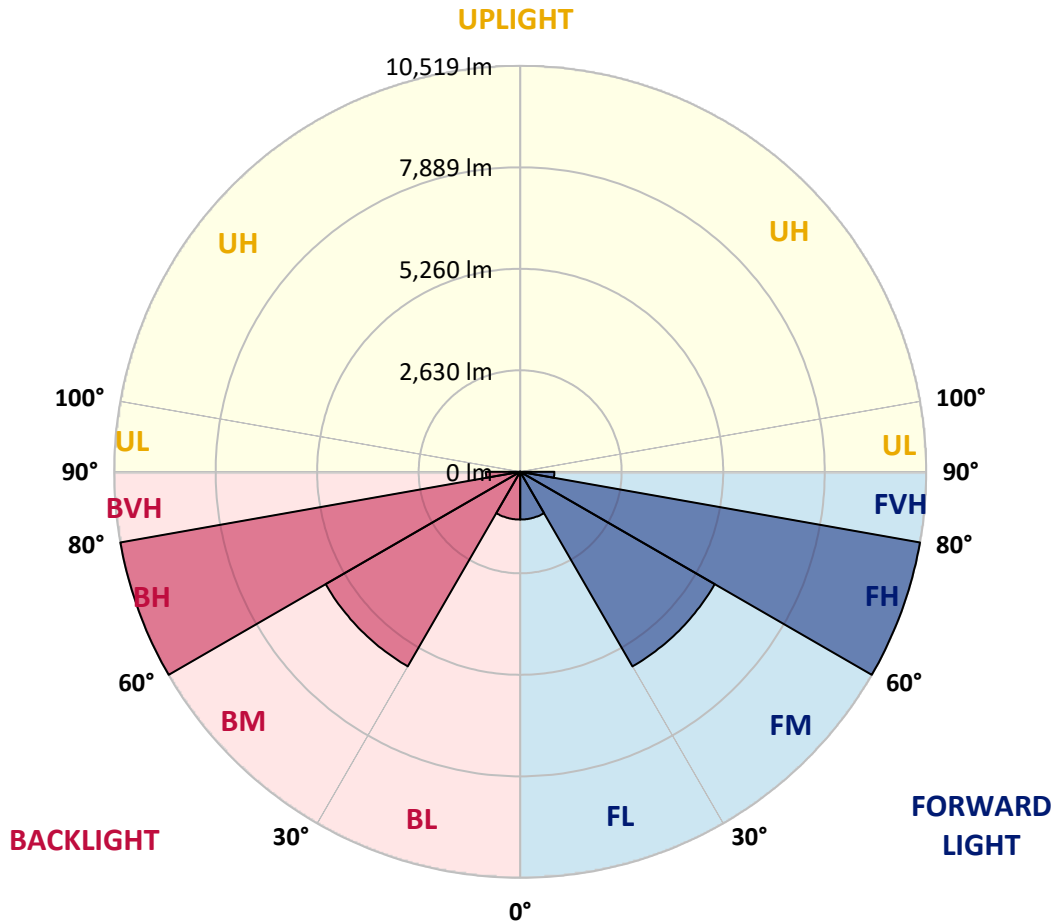


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1237.9	3.4			
FM (30°-60°)	5820.4	15.8			
FH (60°-80°)	10519.3	28.5			G4/12000
FVH (80°-90°)	886.9	2.4			G5
BL (0°-30°)	1237.9	3.4	B3/2500		
BM (30°-60°)	5820.4	15.8	B4/8500		
BH (60°-80°)	10519.3	28.5	B5		G4/12000
BVH (80°-90°)	886.9	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°	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9
2.5°	3037.1	3037.1	3037.1	3032.3	3022.9	3018.2	3008.8	3013.5	3013.5	3013.5	3013.5
5°	2999.3	2999.3	2994.6	2989.9	2980.5	2975.7	2966.3	2975.7	2975.7	2975.7	2975.7
7.5°	2928.6	2933.3	2933.3	2928.6	2914.4	2909.7	2895.6	2900.3	2900.3	2905.0	2900.3
10°	2890.9	2890.9	2886.1	2862.6	2839.0	2829.6	2824.8	2839.0	2853.1	2867.3	2867.3
12.5°	2890.9	2890.9	2881.4	2843.7	2810.7	2810.7	2810.7	2829.6	2857.8	2886.1	2890.9
15°	2905.0	2905.0	2886.1	2843.7	2824.8	2829.6	2829.6	2848.4	2881.4	2919.2	2923.9
17.5°	2914.4	2914.4	2890.9	2848.4	2848.4	2862.6	2853.1	2867.3	2900.3	2942.7	2947.4
20°	2928.6	2928.6	2895.6	2862.6	2862.6	2876.7	2876.7	2890.9	2919.2	2961.6	2966.3
22.5°	2956.9	2952.2	2919.2	2890.9	2890.9	2900.3	2909.7	2928.6	2952.2	2989.9	2999.3
25°	2989.9	2989.9	2961.6	2956.9	2966.3	2989.9	2985.2	2980.5	2989.9	3022.9	3037.1
27.5°	3008.8	3008.8	2989.9	3004.0	3041.8	3060.6	3037.1	3018.2	3018.2	3051.2	3055.9
30°	3070.1	3065.3	3046.5	3055.9	3088.9	3098.4	3084.2	3060.6	3074.8	3112.5	3117.2
32.5°	3173.8	3173.8	3145.5	3145.5	3169.1	3206.8	3159.7	3145.5	3164.4	3206.8	3211.5
35°	3334.2	3334.2	3296.4	3277.6	3296.4	3348.3	3277.6	3272.8	3305.9	3353.0	3357.7
37.5°	3536.9	3536.9	3513.4	3466.2	3470.9	3503.9	3442.6	3437.9	3499.2	3551.1	3551.1
40°	3791.6	3805.7	3782.2	3725.6	3706.7	3711.4	3664.3	3669.0	3739.7	3801.0	3801.0
42.5°	4107.6	4117.0	4079.3	4036.8	4013.2	3999.1	3951.9	3961.4	4046.3	4126.4	4126.4
45°	4489.6	4494.3	4456.5	4404.7	4376.4	4366.9	4319.8	4343.4	4437.7	4522.6	4517.9
47.5°	4918.7	4923.4	4885.7	4833.8	4815.0	4829.1	4781.9	4781.9	4866.8	4937.6	4928.1
50°	5404.4	5413.9	5371.4	5347.9	5333.7	5371.4	5314.8	5263.0	5319.6	5390.3	5380.9
52.5°	5942.1	5965.6	5937.3	5946.8	5998.6	6045.8	5951.5	5838.3	5866.6	5913.8	5899.6
55°	6592.9	6621.2	6630.6	6663.6	6800.4	6880.5	6724.9	6536.3	6522.1	6526.8	6503.3
57.5°	7323.8	7342.7	7404.0	7479.4	7762.4	7889.7	7644.5	7319.1	7215.4	7154.0	7139.9
60°	8059.5	8092.5	8243.4	8399.1	8832.9	9064.0	8686.7	8139.7	7918.0	7804.8	7781.3
62.5°	8799.9	8865.9	9111.2	9375.2	10007.2	10351.4	9771.4	8979.1	8658.4	8517.0	8479.2
65°	9658.2	9738.4	10035.5	10370.3	11073.0	11558.7	10856.0	9846.8	9502.6	9313.9	9266.8
67.5°	10662.7	10747.6	10988.1	11360.6	12025.6	12501.9	11879.4	10733.4	10285.4	10044.9	10007.2
70°	11488.0	11563.4	11822.8	12200.1	12695.3	13237.6	12643.4	11440.8	11035.3	10865.5	10841.9
72.5°	11360.6	11459.7	11841.7	12407.6	13115.0	13728.0	12978.2	11577.6	10992.8	10757.0	10681.6
75°	9922.3	10030.8	10483.5	11506.8	12799.0	13713.9	12492.5	10667.4	9978.9	9780.8	9743.1
77.5°	6569.3	6673.0	7437.0	9049.8	11176.7	12497.2	11025.8	8936.7	7828.4	7352.1	7323.8
80°	2655.1	2787.1	3518.1	5230.0	7922.7	9714.8	8177.4	5720.4	3857.6	3112.5	2961.6
82.5°	617.8	735.7	1070.5	1928.8	4055.7	6050.5	4409.4	2136.3	1240.3	881.9	792.3
85°	259.4	264.1	457.4	627.2	1268.6	2442.8	1443.1	778.1	631.9	462.2	452.7
87.5°	99.0	103.8	221.6	264.1	405.6	462.2	490.5	400.9	372.6	231.1	221.6
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)