

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: P400361

Luminaire Tested: **ARCH-L-PA3-270-740-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400361
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-PA3-270-740-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: 36389 lumens
Efficiency: N/A
Efficacy: 133.3 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

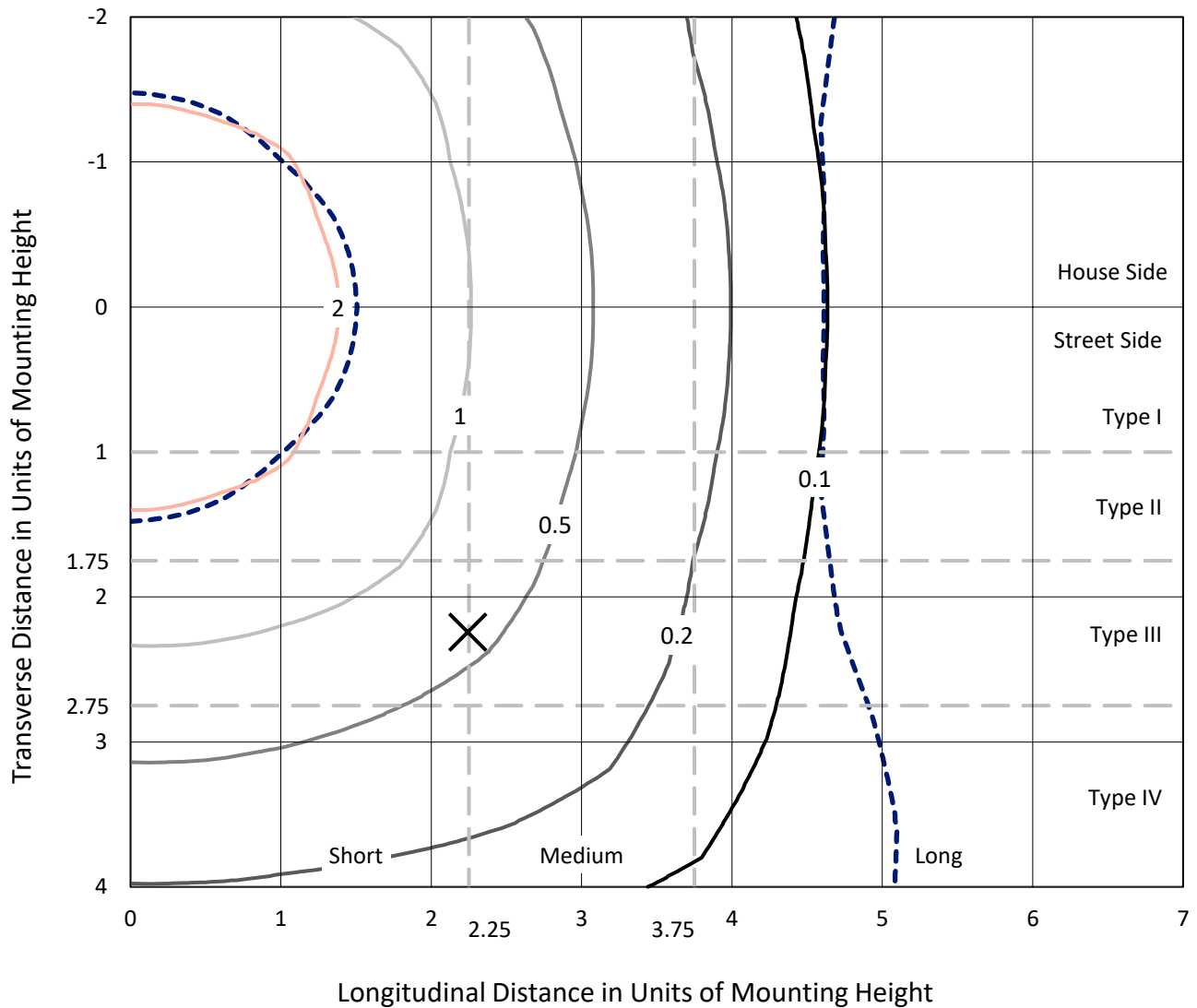
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

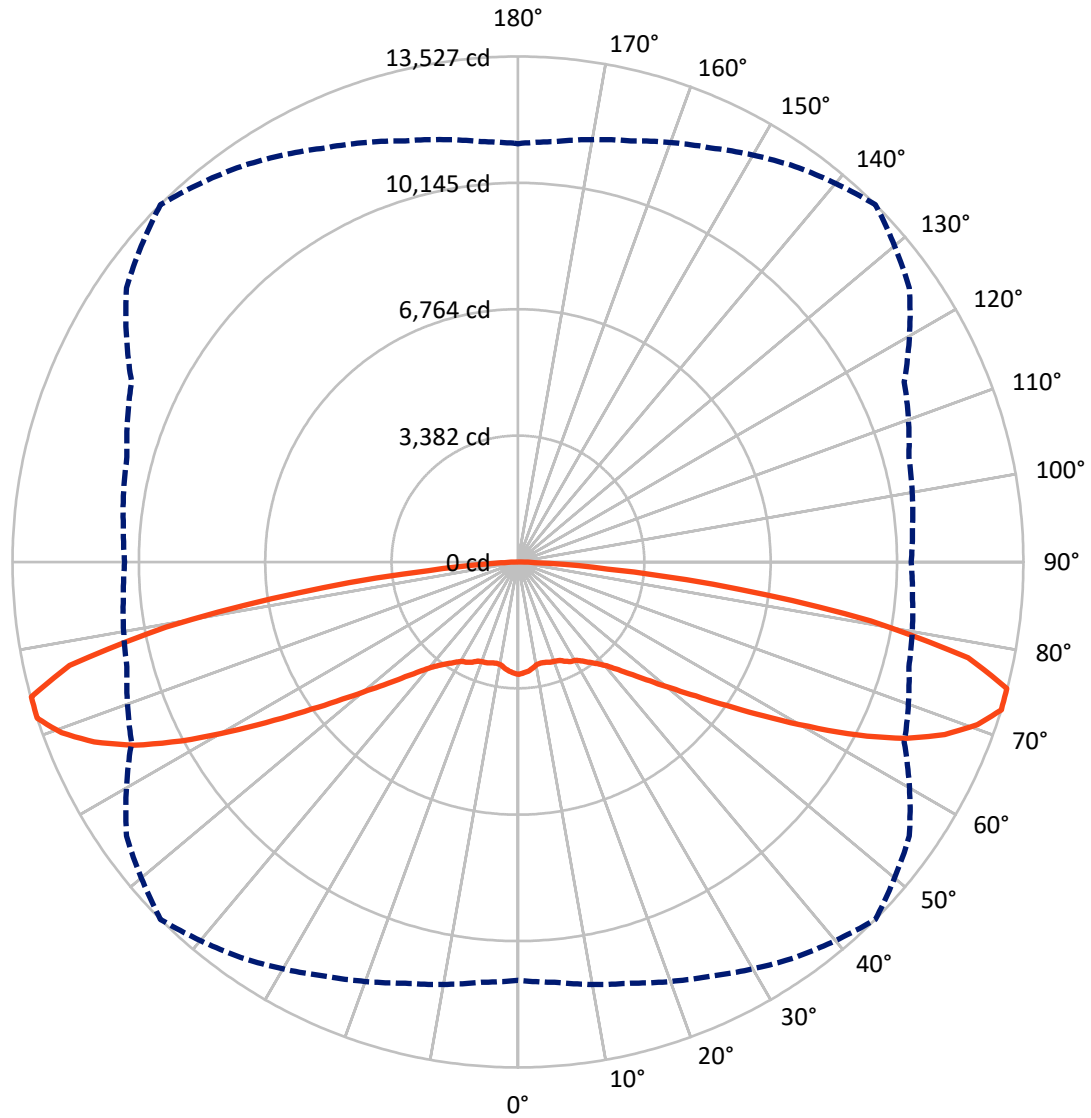
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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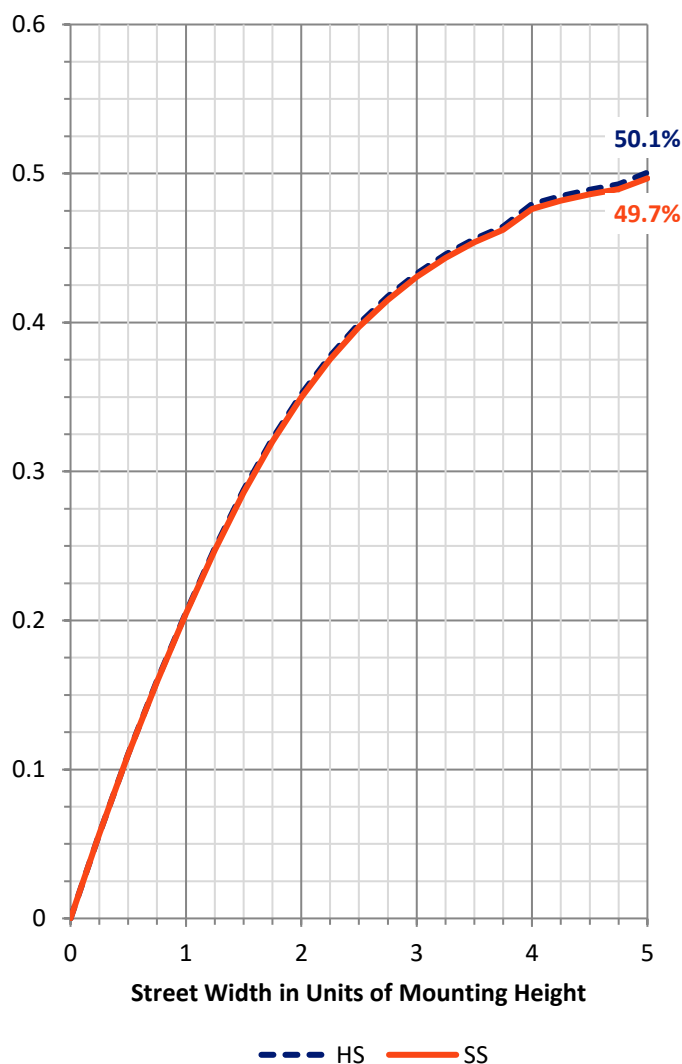
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18194.5	0.0	18194.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18194.5	0.0	18194.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36389.0	0.0	36389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.1	0.8
10°-20°	801.5	2.2
20°-30°	1361.9	3.7
30°-40°	2077.2	5.7
40°-50°	3420.4	9.4
50°-60°	5973.0	16.4
60°-70°	10013.9	27.5
70°-80°	10717.0	29.5
80°-90°	1747.9	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°	36389.0	100.0
0°-180°	36389.0	100.0

Coefficient of Utilization

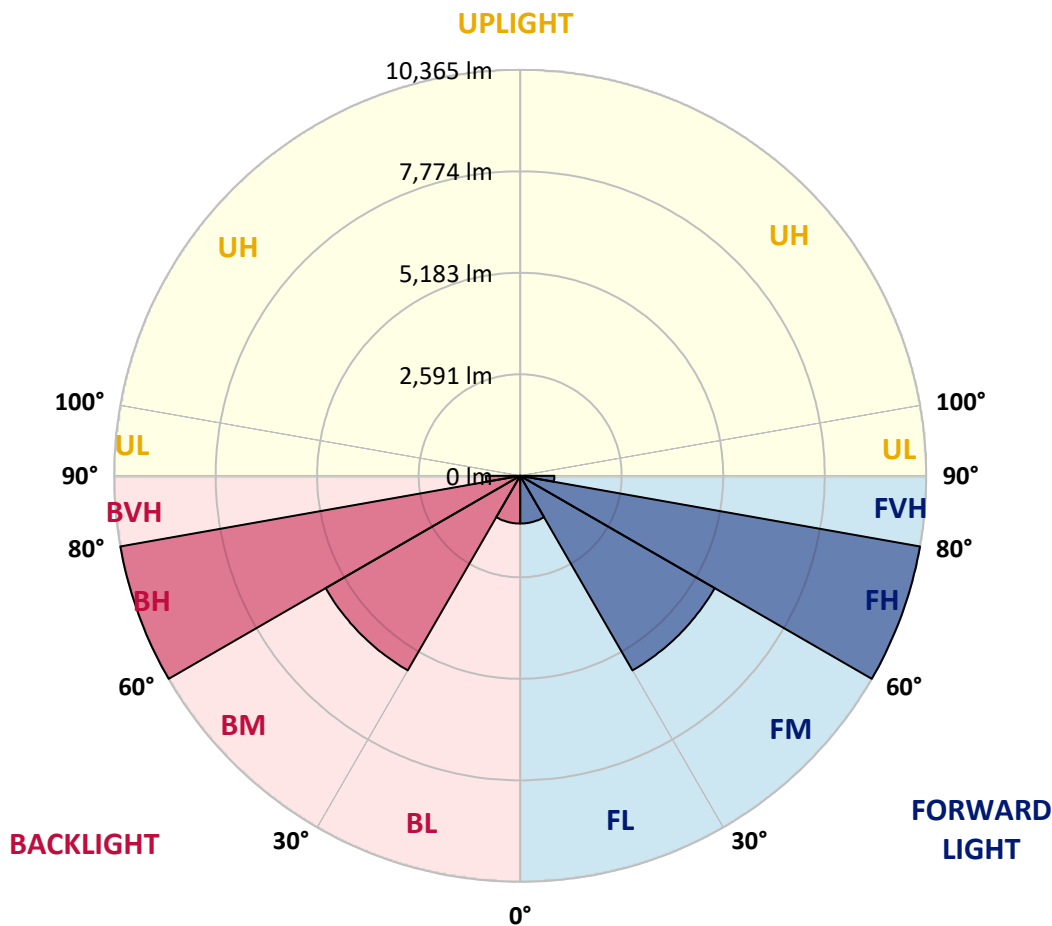


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1219.8	3.4			
FM (30°-60°)	5735.3	15.8			
FH (60°-80°)	10365.4	28.5			G4/12000
FVH (80°-90°)	874.0	2.4			G5
BL (0°-30°)	1219.8	3.4	B3/2500		
BM (30°-60°)	5735.3	15.8	B4/8500		
BH (60°-80°)	10365.4	28.5	B5		G4/12000
BVH (80°-90°)	874.0	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°	3011.2	3011.2	3011.2	3011.2	3011.2	3011.2	3011.2	3011.2	3011.2	3011.2	3011.2
2.5°	2992.6	2992.6	2992.6	2988.0	2978.7	2974.1	2964.8	2969.4	2969.4	2969.4	2969.4
5°	2955.5	2955.5	2950.8	2946.2	2936.9	2932.2	2922.9	2932.2	2932.2	2932.2	2932.2
7.5°	2885.8	2890.4	2890.4	2885.8	2871.8	2867.2	2853.2	2857.9	2857.9	2862.5	2857.9
10°	2848.6	2848.6	2843.9	2820.7	2797.5	2788.2	2783.5	2797.5	2811.4	2825.4	2825.4
12.5°	2848.6	2848.6	2839.3	2802.1	2769.6	2769.6	2769.6	2788.2	2816.1	2843.9	2848.6
15°	2862.5	2862.5	2843.9	2802.1	2783.5	2788.2	2788.2	2806.8	2839.3	2876.5	2881.1
17.5°	2871.8	2871.8	2848.6	2806.8	2806.8	2820.7	2811.4	2825.4	2857.9	2899.7	2904.4
20°	2885.8	2885.8	2853.2	2820.7	2820.7	2834.6	2834.6	2848.6	2876.5	2918.3	2922.9
22.5°	2913.6	2909.0	2876.5	2848.6	2848.6	2857.9	2867.2	2885.8	2909.0	2946.2	2955.5
25°	2946.2	2946.2	2918.3	2913.6	2922.9	2946.2	2941.5	2936.9	2946.2	2978.7	2992.6
27.5°	2964.8	2964.8	2946.2	2960.1	2997.3	3015.9	2992.6	2974.1	2974.1	3006.6	3011.2
30°	3025.2	3020.5	3001.9	3011.2	3043.8	3053.1	3039.1	3015.9	3029.8	3067.0	3071.6
32.5°	3127.4	3127.4	3099.5	3099.5	3122.8	3159.9	3113.5	3099.5	3118.1	3159.9	3164.6
35°	3285.4	3285.4	3248.2	3229.6	3248.2	3299.3	3229.6	3225.0	3257.5	3304.0	3308.6
37.5°	3485.2	3485.2	3462.0	3415.5	3420.2	3452.7	3392.3	3387.6	3448.0	3499.2	3499.2
40°	3736.2	3750.1	3726.9	3671.1	3652.5	3657.2	3610.7	3615.3	3685.0	3745.4	3745.4
42.5°	4047.5	4056.8	4019.6	3977.8	3954.6	3940.6	3894.2	3903.4	3987.1	4066.1	4066.1
45°	4423.9	4428.6	4391.4	4340.3	4312.4	4303.1	4256.6	4279.9	4372.8	4456.4	4451.8
47.5°	4846.8	4851.4	4814.3	4763.1	4744.5	4758.5	4712.0	4712.0	4795.7	4865.4	4856.1
50°	5325.4	5334.7	5292.9	5269.7	5255.7	5292.9	5237.1	5186.0	5241.8	5311.5	5302.2
52.5°	5855.2	5878.4	5850.5	5859.8	5910.9	5957.4	5864.5	5752.9	5780.8	5827.3	5813.3
55°	6496.5	6524.3	6533.6	6566.2	6700.9	6779.9	6626.6	6440.7	6426.7	6431.4	6408.2
57.5°	7216.7	7235.3	7295.7	7370.1	7648.9	7774.4	7532.7	7212.1	7109.8	7049.4	7035.5
60°	7941.7	7974.2	8122.9	8276.2	8703.8	8931.5	8559.7	8020.7	7802.2	7690.7	7667.5
62.5°	8671.2	8736.3	8977.9	9238.2	9860.8	10200.1	9628.5	8847.8	8531.8	8392.4	8355.2
65°	9517.0	9596.0	9888.7	10218.7	10911.1	11389.7	10697.3	9702.9	9363.6	9177.7	9131.3
67.5°	10506.8	10590.4	10827.4	11194.5	11849.7	12319.1	11705.7	10576.5	10135.0	9898.0	9860.8
70°	11320.0	11394.3	11649.9	12021.7	12509.6	13044.0	12458.5	11273.5	10873.9	10706.6	10683.4
72.5°	11194.5	11292.1	11668.5	12226.2	12923.2	13527.3	12788.4	11408.3	10832.1	10599.7	10525.4
75°	9777.2	9884.1	10330.2	11338.6	12611.8	13513.4	12309.8	10511.4	9833.0	9637.8	9600.6
77.5°	6473.2	6575.4	7328.3	8917.5	11013.3	12314.4	10864.6	8806.0	7714.0	7244.6	7216.7
80°	2616.2	2746.4	3466.6	5153.5	7806.9	9572.7	8057.8	5636.8	3801.2	3067.0	2918.3
82.5°	608.8	724.9	1054.9	1900.6	3996.4	5962.0	4344.9	2105.1	1222.2	869.0	780.7
85°	255.6	260.2	450.8	618.0	1250.0	2407.1	1422.0	766.7	622.7	455.4	446.1
87.5°	97.6	102.2	218.4	260.2	399.6	455.4	483.3	395.0	367.1	227.7	218.4
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)