

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: P400343

Luminaire Tested: **ARCH-L-PA3-270-727-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400343
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-PA3-270-727-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 30430 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

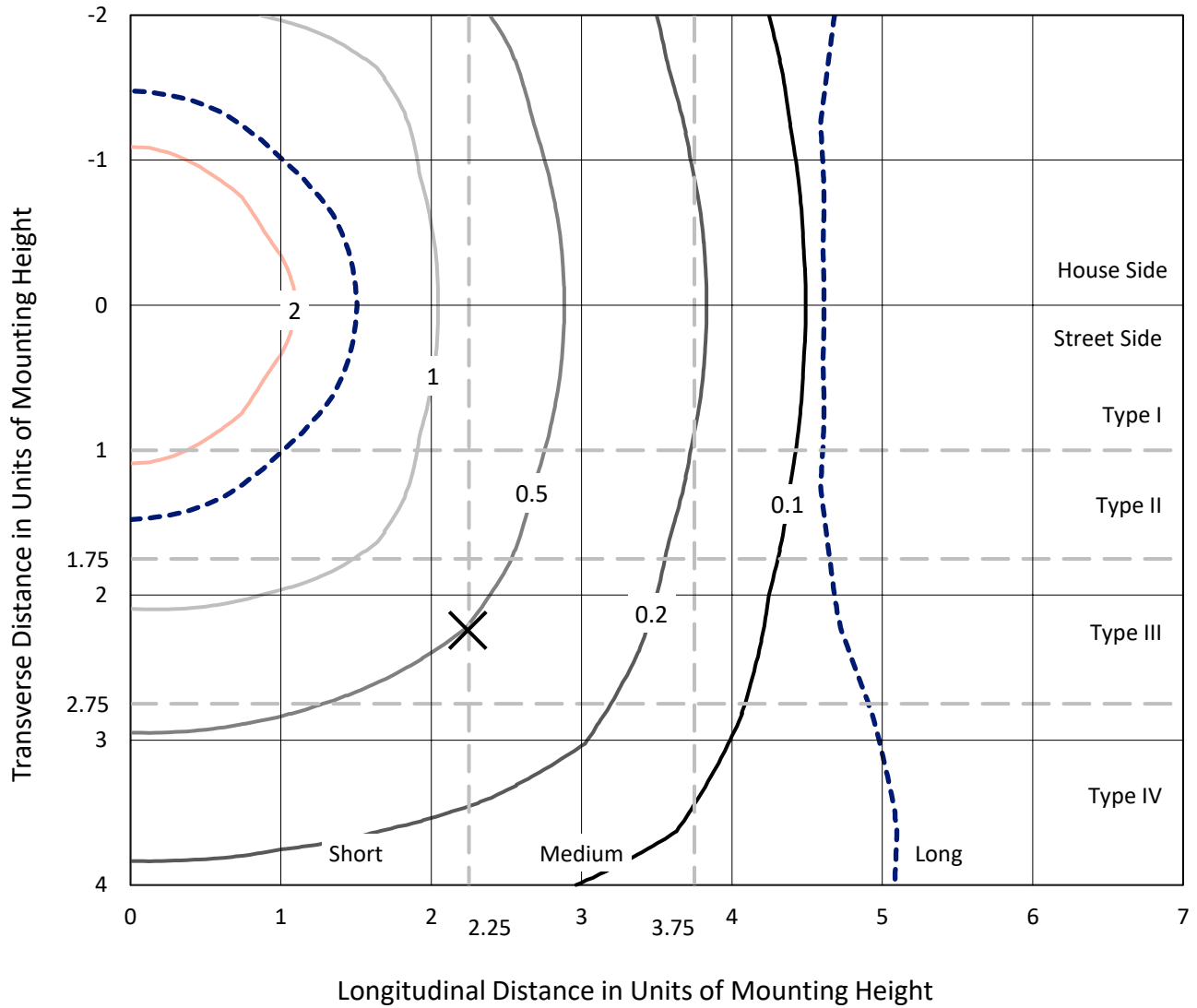
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

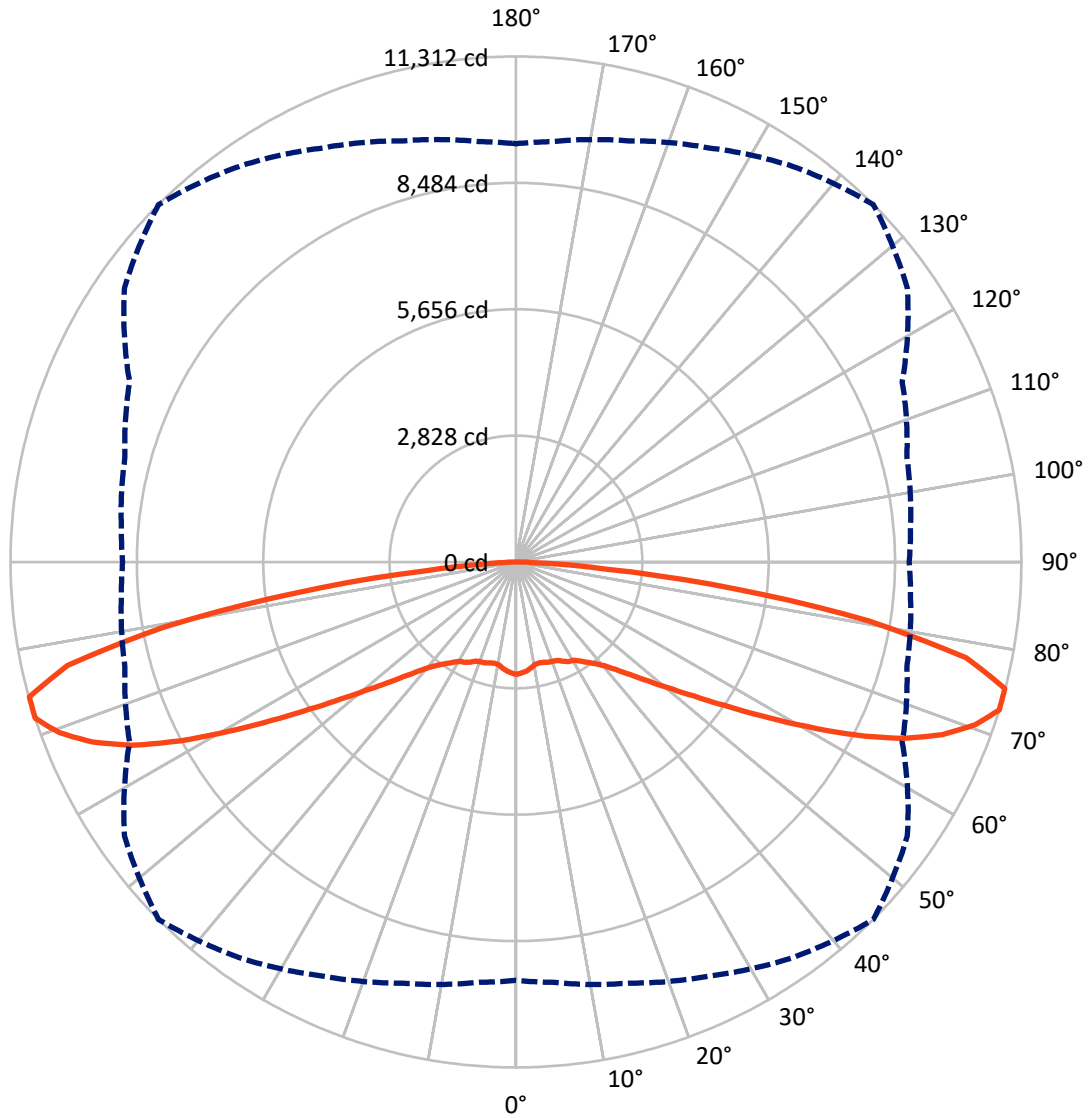
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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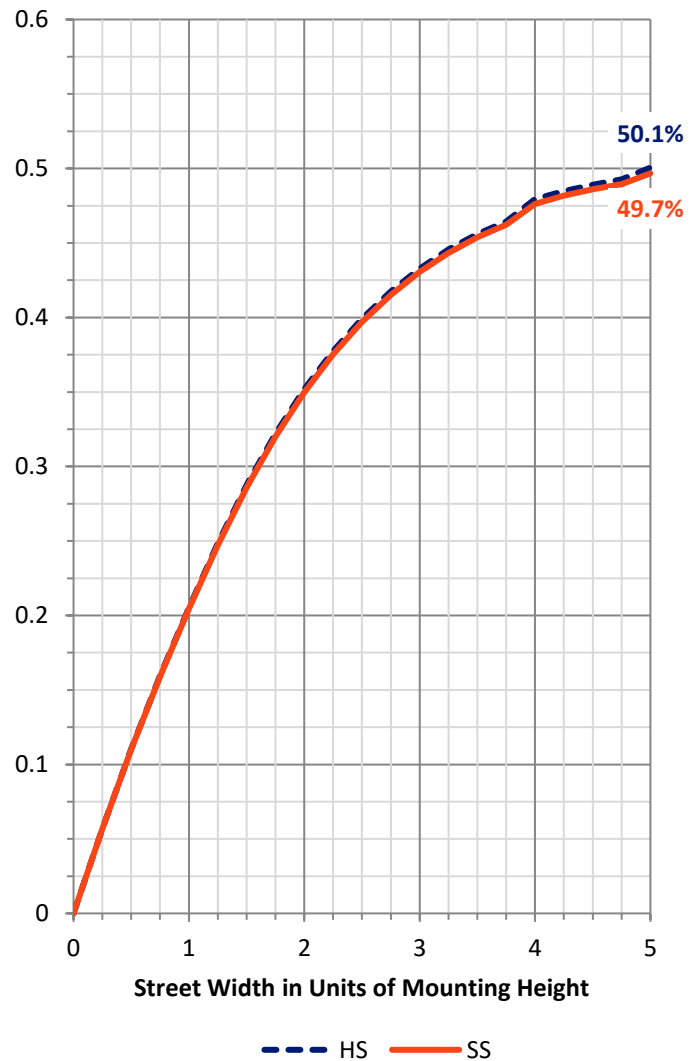
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15215.0	0.0	15215.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15215.0	0.0	15215.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30430.0	0.0	30430.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.9	0.8
10°-20°	670.3	2.2
20°-30°	1138.9	3.7
30°-40°	1737.1	5.7
40°-50°	2860.3	9.4
50°-60°	4994.9	16.4
60°-70°	8374.1	27.5
70°-80°	8962.0	29.5
80°-90°	1461.7	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°	30430.0	100.0
0°-180°	30430.0	100.0

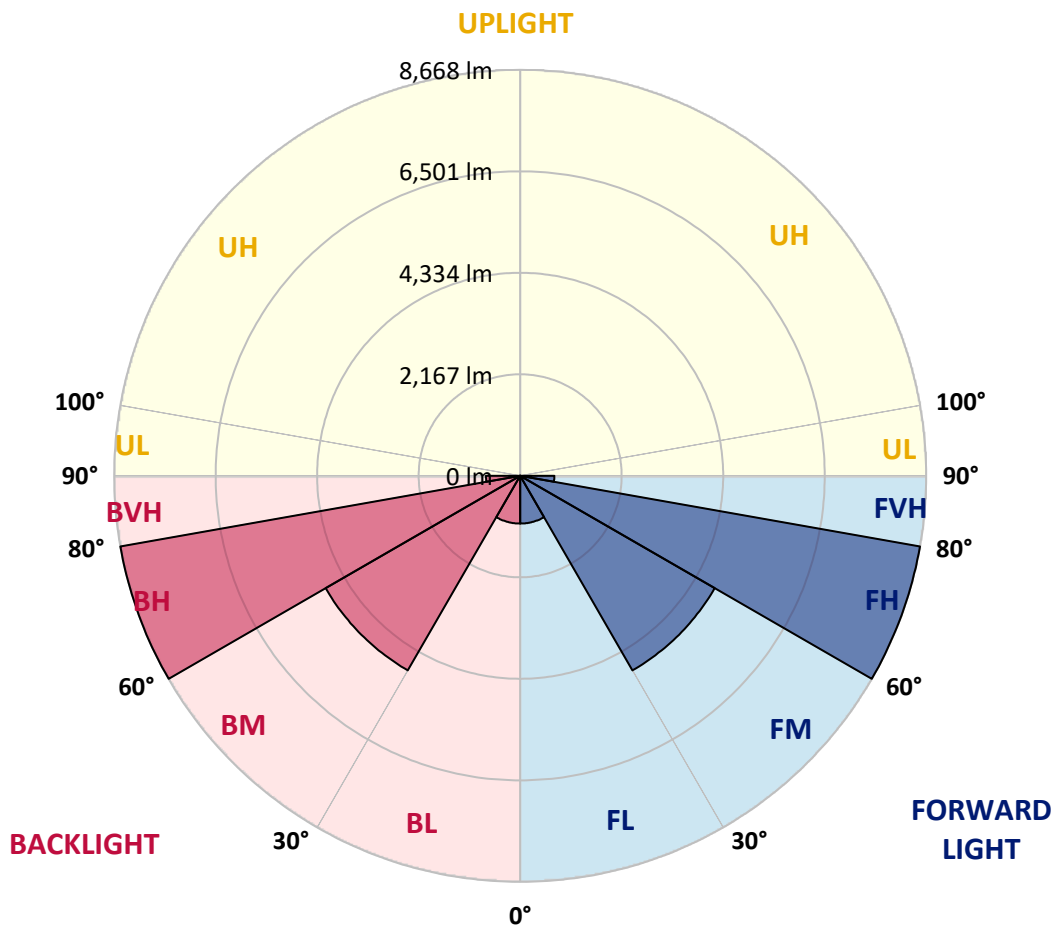


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.0	3.4			
FM (30°-60°)	4796.1	15.8			
FH (60°-80°)	8668.0	28.5			G4/12000
FVH (80°-90°)	730.8	2.4			G4/750
BL (0°-30°)	1020.0	3.4	B3/2500		
BM (30°-60°)	4796.1	15.8	B3/5000		
BH (60°-80°)	8668.0	28.5	B5		G4/12000
BVH (80°-90°)	730.8	2.4			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°	2518.1	2518.1	2518.1	2518.1	2518.1	2518.1	2518.1	2518.1	2518.1	2518.1	2518.1
2.5°	2502.6	2502.6	2502.6	2498.7	2490.9	2487.0	2479.3	2483.1	2483.1	2483.1	2483.1
5°	2471.5	2471.5	2467.6	2463.7	2455.9	2452.1	2444.3	2452.1	2452.1	2452.1	2452.1
7.5°	2413.2	2417.1	2417.1	2413.2	2401.5	2397.7	2386.0	2389.9	2389.9	2393.8	2389.9
10°	2382.1	2382.1	2378.2	2358.8	2339.4	2331.6	2327.7	2339.4	2351.0	2362.7	2362.7
12.5°	2382.1	2382.1	2374.3	2343.2	2316.0	2316.0	2316.0	2331.6	2354.9	2378.2	2382.1
15°	2393.8	2393.8	2378.2	2343.2	2327.7	2331.6	2331.6	2347.1	2374.3	2405.4	2409.3
17.5°	2401.5	2401.5	2382.1	2347.1	2347.1	2358.8	2351.0	2362.7	2389.9	2424.9	2428.7
20°	2413.2	2413.2	2386.0	2358.8	2358.8	2370.4	2370.4	2382.1	2405.4	2440.4	2444.3
22.5°	2436.5	2432.6	2405.4	2382.1	2382.1	2389.9	2397.7	2413.2	2432.6	2463.7	2471.5
25°	2463.7	2463.7	2440.4	2436.5	2444.3	2463.7	2459.8	2455.9	2463.7	2490.9	2502.6
27.5°	2479.3	2479.3	2463.7	2475.4	2506.5	2522.0	2502.6	2487.0	2487.0	2514.2	2518.1
30°	2529.8	2525.9	2510.3	2518.1	2545.3	2553.1	2541.4	2522.0	2533.7	2564.7	2568.6
32.5°	2615.3	2615.3	2591.9	2591.9	2611.4	2642.5	2603.6	2591.9	2607.5	2642.5	2646.4
35°	2747.4	2747.4	2716.3	2700.8	2716.3	2759.0	2700.8	2696.9	2724.1	2762.9	2766.8
37.5°	2914.5	2914.5	2895.1	2856.2	2860.1	2887.3	2836.8	2832.9	2883.4	2926.1	2926.1
40°	3124.3	3136.0	3116.6	3069.9	3054.4	3058.3	3019.4	3023.3	3081.6	3132.1	3132.1
42.5°	3384.7	3392.5	3361.4	3326.4	3307.0	3295.3	3256.5	3264.2	3334.2	3400.2	3400.2
45°	3699.5	3703.3	3672.3	3629.5	3606.2	3598.4	3559.6	3579.0	3656.7	3726.7	3722.8
47.5°	4053.1	4057.0	4025.9	3983.1	3967.6	3979.2	3940.4	3940.4	4010.3	4068.6	4060.9
50°	4453.3	4461.1	4426.1	4406.7	4395.0	4426.1	4379.5	4336.8	4383.4	4441.7	4433.9
52.5°	4896.3	4915.8	4892.5	4900.2	4943.0	4981.8	4904.1	4810.8	4834.2	4873.0	4861.4
55°	5432.6	5455.9	5463.7	5490.9	5603.6	5669.6	5541.4	5386.0	5374.3	5378.2	5358.8
57.5°	6034.9	6050.5	6101.0	6163.2	6396.3	6501.2	6299.2	6031.0	5945.6	5895.0	5883.4
60°	6641.1	6668.3	6792.7	6920.9	7278.4	7468.9	7158.0	6707.2	6524.6	6431.3	6411.9
62.5°	7251.2	7305.6	7507.7	7725.3	8246.1	8529.7	8051.8	7398.9	7134.7	7018.1	6987.0
65°	7958.5	8024.6	8269.4	8545.3	9124.3	9524.5	8945.5	8113.9	7830.3	7674.8	7636.0
67.5°	8786.2	8856.2	9054.3	9361.3	9909.3	10301.7	9788.8	8844.5	8475.3	8277.1	8246.1
70°	9466.3	9528.4	9742.2	10053.0	10461.1	10908.0	10418.3	9427.4	9093.2	8953.3	8933.9
72.5°	9361.3	9442.9	9757.7	10224.0	10806.9	11312.1	10694.2	9540.1	9058.2	8863.9	8801.7
75°	8176.1	8265.5	8638.5	9481.8	10546.6	11300.4	10294.0	8790.1	8222.7	8059.5	8028.4
77.5°	5413.2	5498.7	6128.2	7457.2	9209.8	10297.9	9085.4	7363.9	6450.7	6058.2	6034.9
80°	2187.8	2296.6	2898.9	4309.6	6528.4	8005.1	6738.3	4713.7	3178.7	2564.7	2440.4
82.5°	509.1	606.2	882.1	1589.4	3341.9	4985.7	3633.4	1760.3	1022.0	726.7	652.8
85°	213.7	217.6	376.9	516.8	1045.3	2012.9	1189.1	641.2	520.7	380.8	373.1
87.5°	81.6	85.5	182.6	217.6	334.2	380.8	404.1	330.3	307.0	190.4	182.6
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)