

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: P400469

Luminaire Tested: **ARCH-L-PA3-280-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400469
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-PA3-280-830-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 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: 29345 lumens
Efficiency: N/A
Efficacy: 105.2 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

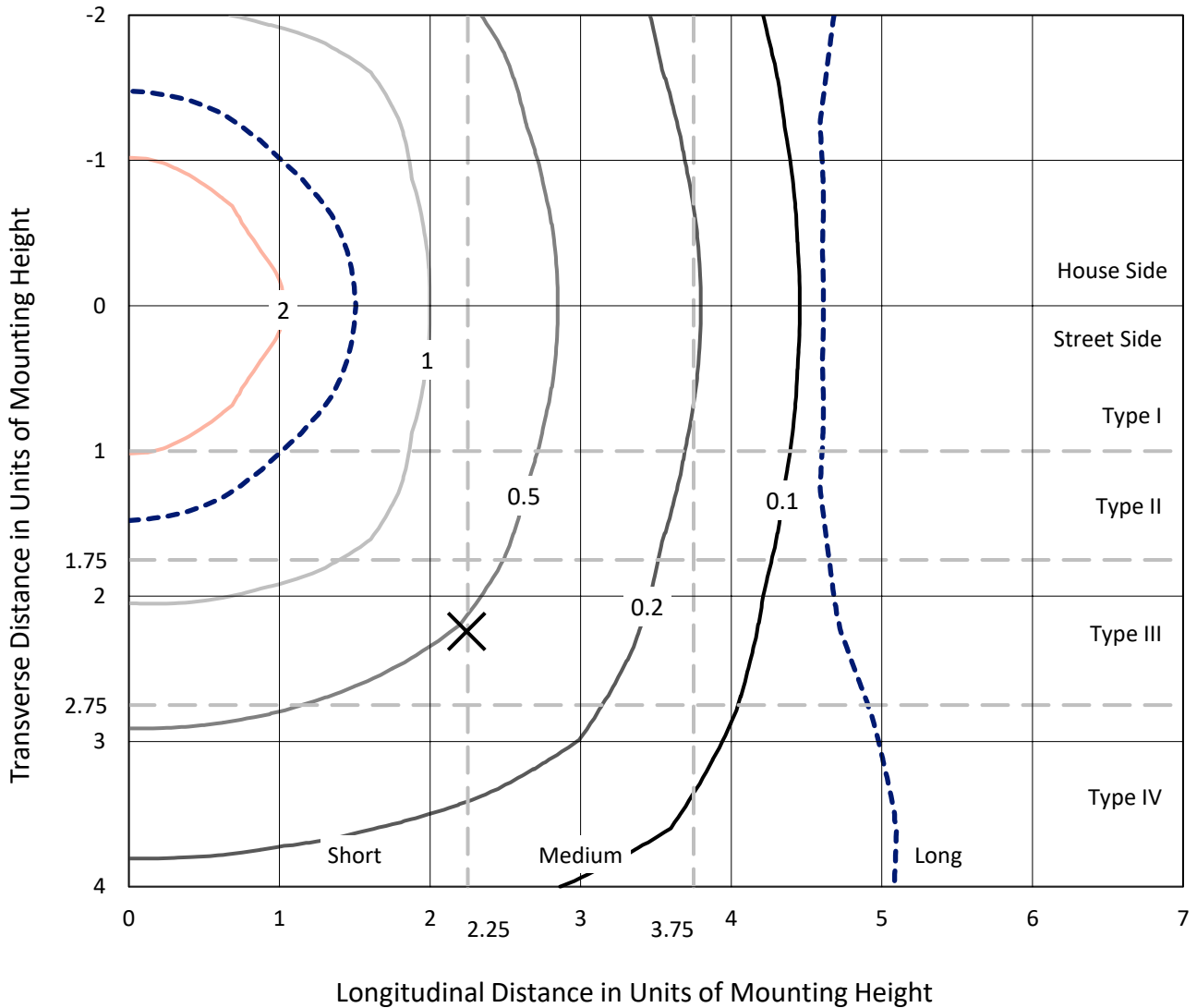
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

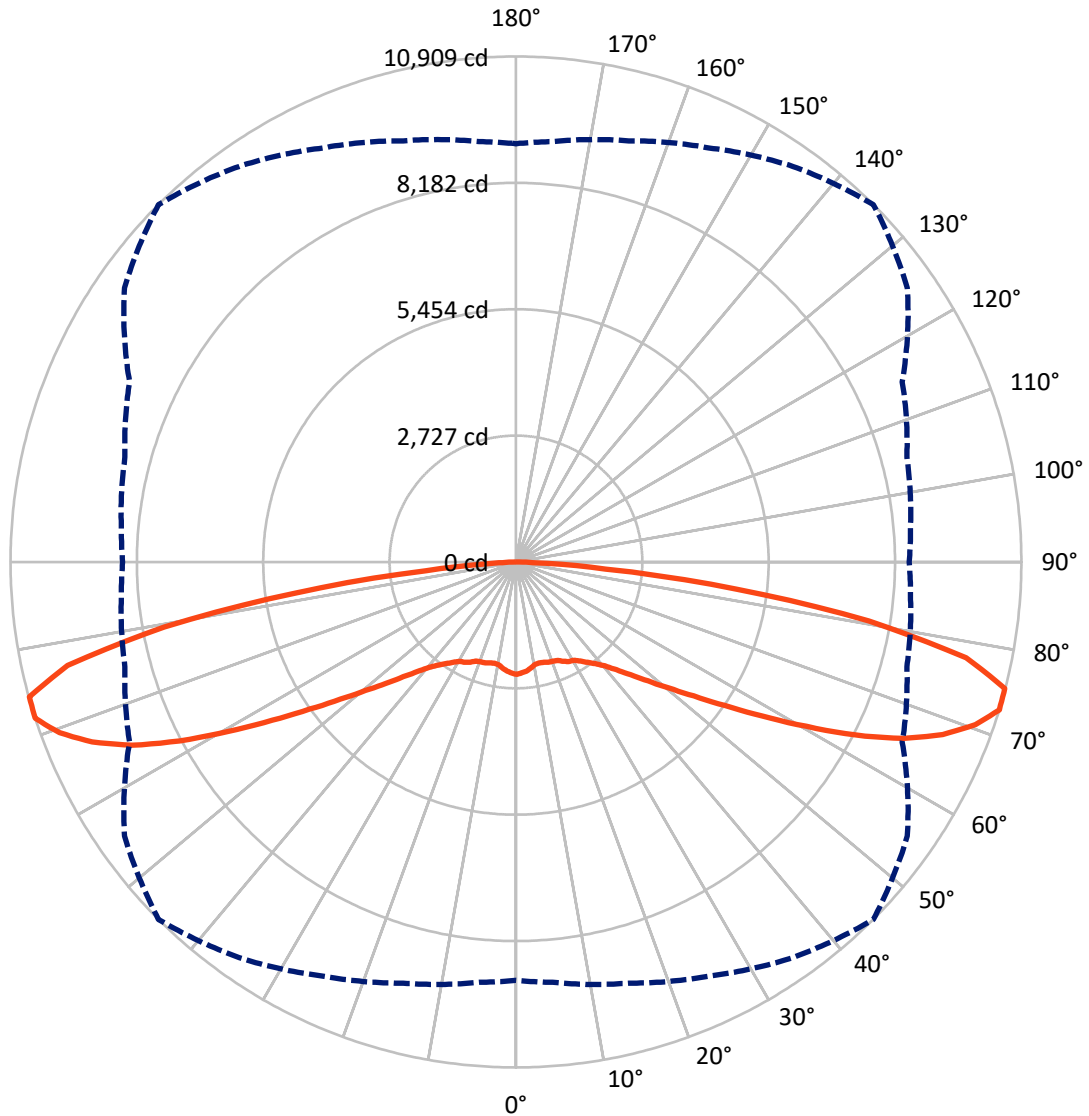
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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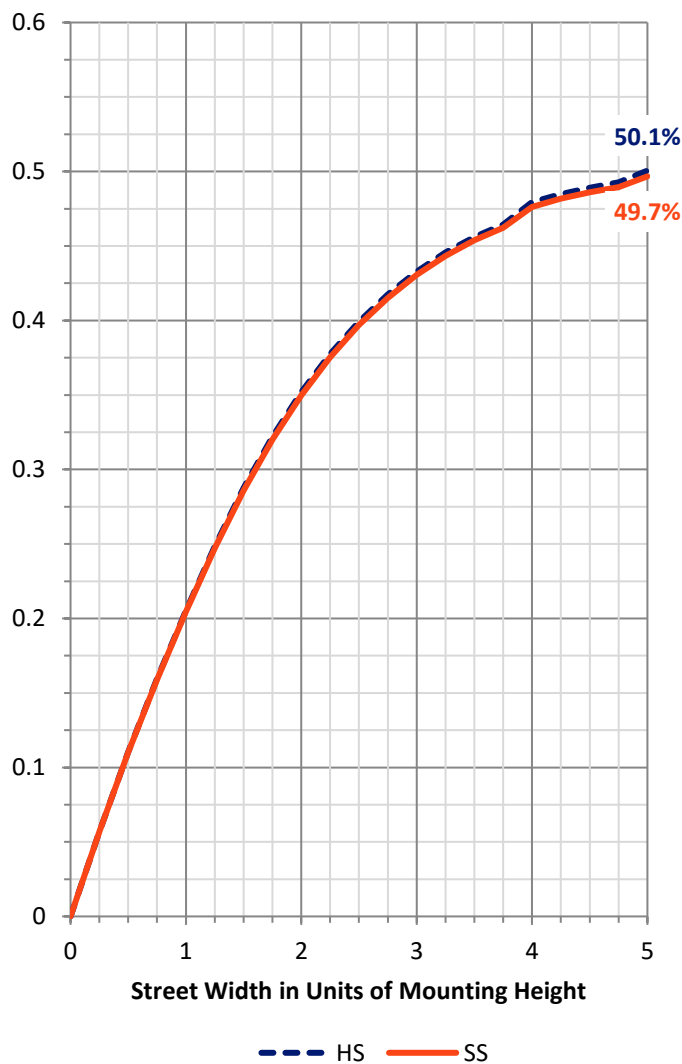
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14672.5	0.0	14672.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14672.5	0.0	14672.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29345.0	0.0	29345.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.7	0.8
10°-20°	646.4	2.2
20°-30°	1098.3	3.7
30°-40°	1675.1	5.7
40°-50°	2758.3	9.4
50°-60°	4816.8	16.4
60°-70°	8075.5	27.5
70°-80°	8642.4	29.5
80°-90°	1409.6	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°	29345.0	100.0
0°-180°	29345.0	100.0

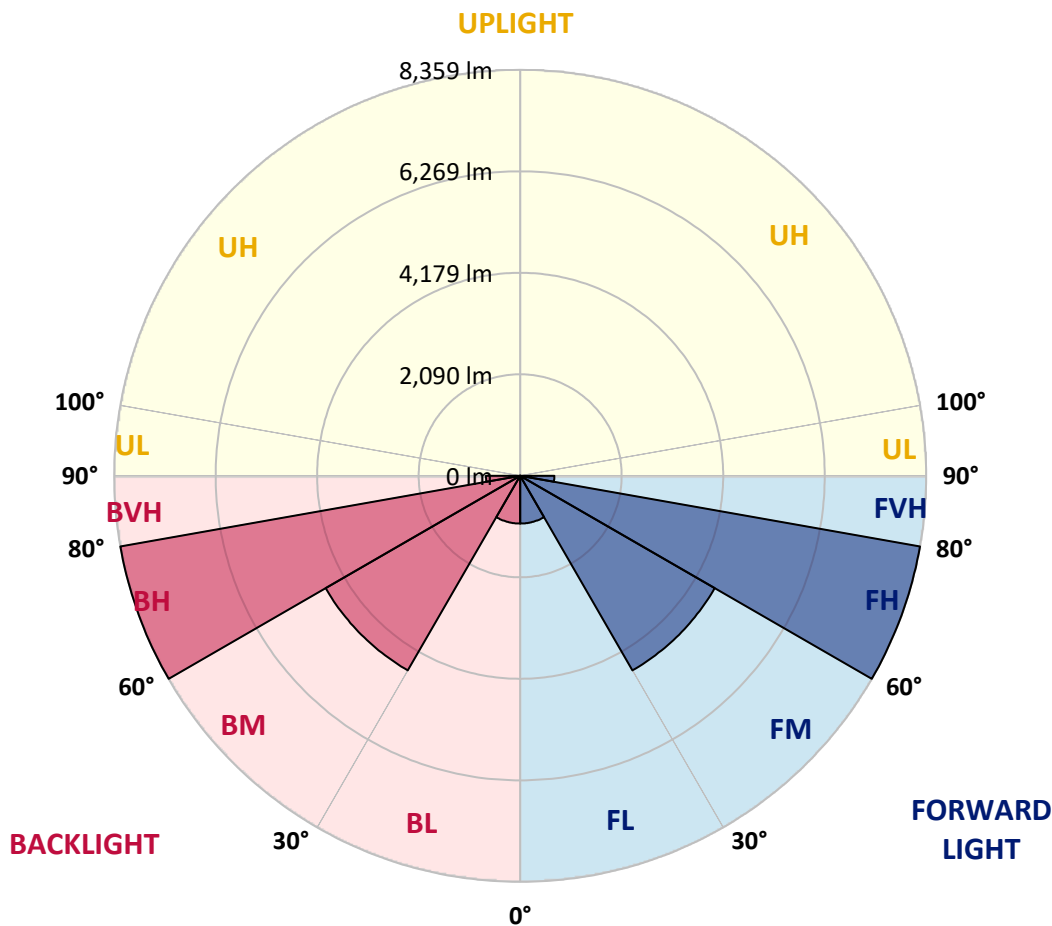


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	983.6	3.4			
FM (30°-60°)	4625.1	15.8			
FH (60°-80°)	8359.0	28.5			G4/12000
FVH (80°-90°)	704.8	2.4			G4/750
BL (0°-30°)	983.6	3.4	B2/1000		
BM (30°-60°)	4625.1	15.8	B3/5000		
BH (60°-80°)	8359.0	28.5	B5		G4/12000
BVH (80°-90°)	704.8	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°	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3
2.5°	2413.3	2413.3	2413.3	2409.6	2402.1	2398.4	2390.9	2394.6	2394.6	2394.6	2394.6
5°	2383.4	2383.4	2379.6	2375.9	2368.4	2364.6	2357.1	2364.6	2364.6	2364.6	2364.6
7.5°	2327.2	2330.9	2330.9	2327.2	2315.9	2312.2	2300.9	2304.7	2304.7	2308.4	2304.7
10°	2297.2	2297.2	2293.4	2274.7	2255.9	2248.5	2244.7	2255.9	2267.2	2278.4	2278.4
12.5°	2297.2	2297.2	2289.7	2259.7	2233.5	2233.5	2233.5	2248.5	2270.9	2293.4	2297.2
15°	2308.4	2308.4	2293.4	2259.7	2244.7	2248.5	2248.5	2263.4	2289.7	2319.7	2323.4
17.5°	2315.9	2315.9	2297.2	2263.4	2263.4	2274.7	2267.2	2278.4	2304.7	2338.4	2342.1
20°	2327.2	2327.2	2300.9	2274.7	2274.7	2285.9	2285.9	2297.2	2319.7	2353.4	2357.1
22.5°	2349.6	2345.9	2319.7	2297.2	2297.2	2304.7	2312.2	2327.2	2345.9	2375.9	2383.4
25°	2375.9	2375.9	2353.4	2349.6	2357.1	2375.9	2372.1	2368.4	2375.9	2402.1	2413.3
27.5°	2390.9	2390.9	2375.9	2387.1	2417.1	2432.1	2413.3	2398.4	2398.4	2424.6	2428.3
30°	2439.6	2435.8	2420.8	2428.3	2454.6	2462.1	2450.8	2432.1	2443.3	2473.3	2477.0
32.5°	2522.0	2522.0	2499.5	2499.5	2518.3	2548.2	2510.8	2499.5	2514.5	2548.2	2552.0
35°	2649.4	2649.4	2619.5	2604.5	2619.5	2660.7	2604.5	2600.7	2626.9	2664.4	2668.2
37.5°	2810.6	2810.6	2791.8	2754.4	2758.1	2784.3	2735.6	2731.9	2780.6	2821.8	2821.8
40°	3012.9	3024.2	3005.4	2960.5	2945.5	2949.2	2911.7	2915.5	2971.7	3020.4	3020.4
42.5°	3264.0	3271.5	3241.5	3207.8	3189.1	3177.8	3140.3	3147.8	3215.3	3279.0	3279.0
45°	3567.5	3571.3	3541.3	3500.1	3477.6	3470.1	3432.6	3451.4	3526.3	3593.8	3590.0
47.5°	3908.6	3912.3	3882.3	3841.1	3826.1	3837.4	3799.9	3799.9	3867.3	3923.6	3916.1
50°	4294.5	4302.0	4268.3	4249.6	4238.3	4268.3	4223.3	4182.1	4227.1	4283.3	4275.8
52.5°	4721.8	4740.5	4718.0	4725.5	4766.7	4804.2	4729.3	4639.3	4661.8	4699.3	4688.0
55°	5238.9	5261.4	5268.9	5295.1	5403.8	5467.5	5343.8	5193.9	5182.7	5186.4	5167.7
57.5°	5819.8	5834.7	5883.5	5943.4	6168.3	6269.4	6074.6	5816.0	5733.6	5684.8	5673.6
60°	6404.3	6430.6	6550.5	6674.2	7018.9	7202.6	6902.8	6468.1	6291.9	6202.0	6183.3
62.5°	6992.7	7045.2	7240.0	7449.9	7952.0	8225.6	7764.7	7135.1	6880.3	6767.8	6737.9
65°	7674.7	7738.4	7974.5	8240.6	8799.0	9184.9	8626.6	7824.6	7551.1	7401.2	7363.7
67.5°	8472.9	8540.4	8731.5	9027.5	9555.9	9934.4	9439.8	8529.1	8173.1	7982.0	7952.0
70°	9128.7	9188.7	9394.8	9694.6	10088.1	10519.0	10046.8	9091.3	8769.0	8634.1	8615.3
72.5°	9027.5	9106.2	9409.8	9859.5	10421.6	10908.8	10312.9	9199.9	8735.2	8547.9	8487.9
75°	7884.6	7970.8	8330.5	9143.7	10170.5	10897.5	9926.9	8476.7	7929.6	7772.2	7742.2
77.5°	5220.2	5302.6	5909.7	7191.3	8881.4	9930.7	8761.5	7101.4	6220.7	5842.2	5819.8
80°	2109.8	2214.7	2795.6	4155.9	6295.7	7719.7	6498.0	4545.6	3065.4	2473.3	2353.4
82.5°	490.9	584.6	850.7	1532.7	3222.8	4807.9	3503.8	1697.6	985.6	700.8	629.6
85°	206.1	209.9	363.5	498.4	1008.1	1941.2	1146.7	618.3	502.2	367.2	359.8
87.5°	78.7	82.4	176.1	209.9	322.3	367.2	389.7	318.5	296.0	183.6	176.1
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)