

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: P400001

Luminaire Tested: **ARCH-L-PA3-220-740-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400001
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-PA3-220-740-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31913 lumens
Efficiency: N/A
Efficacy: 143.8 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

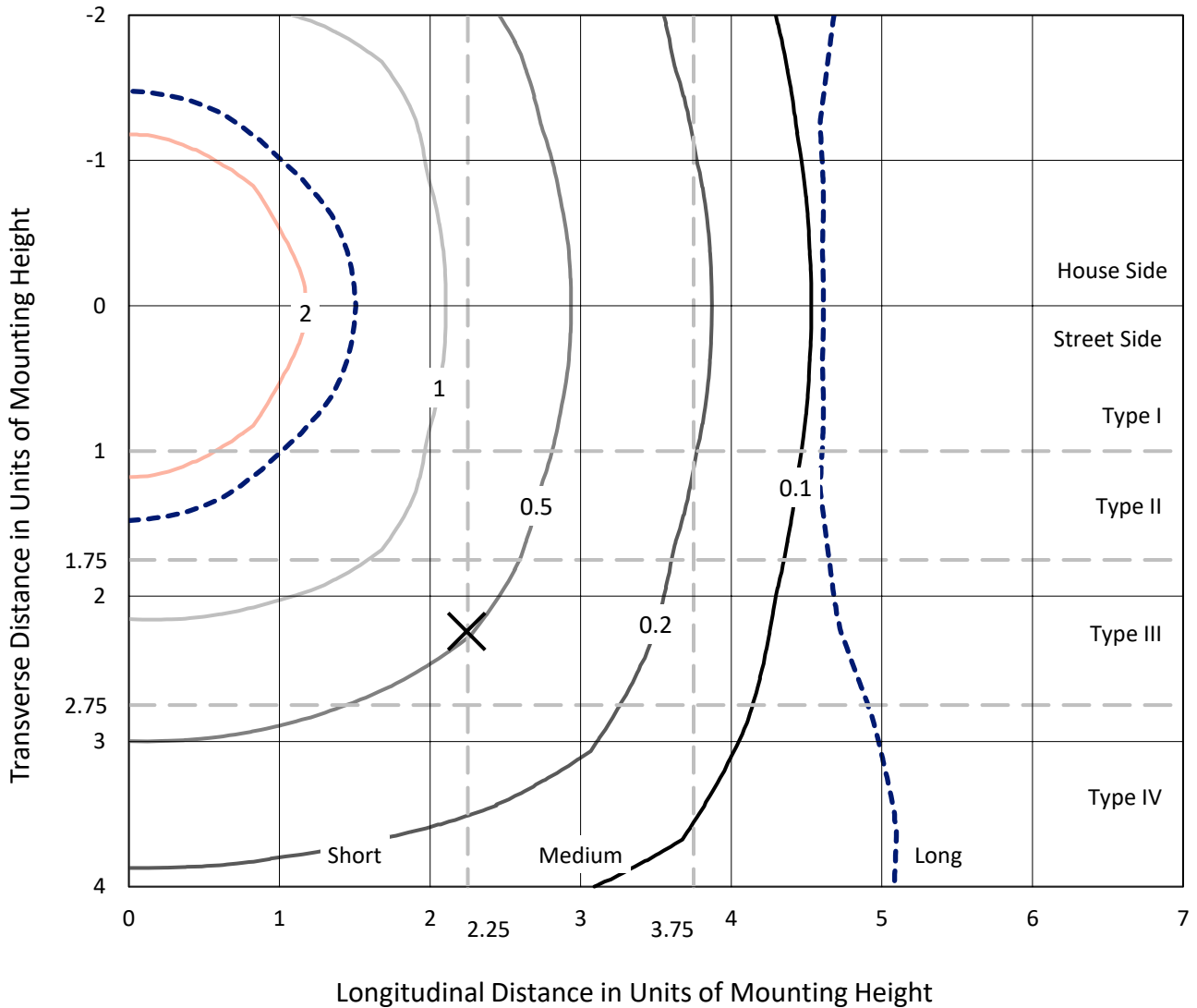
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

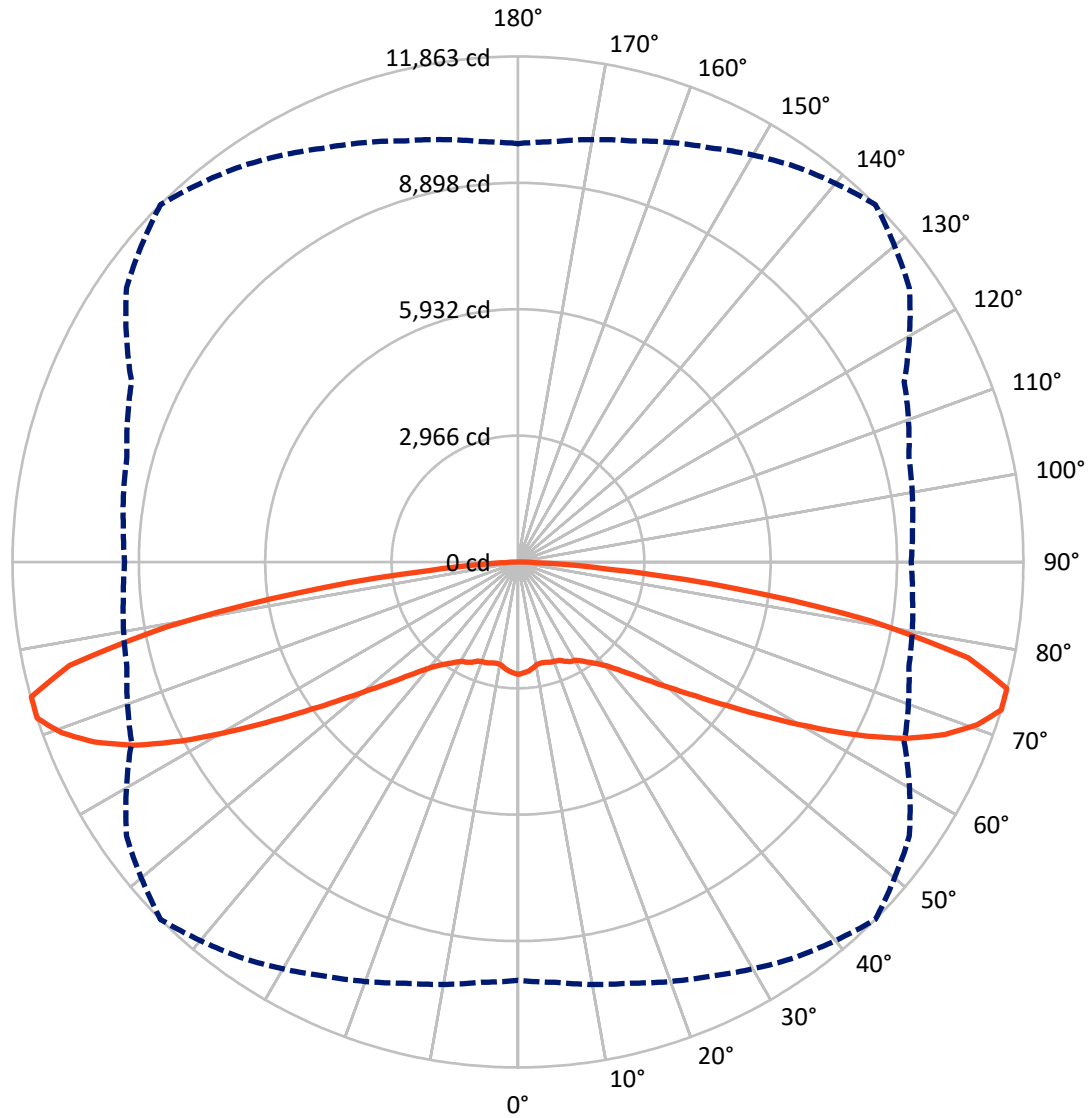
✕ Max cd
 - - - 1/2 Max cd



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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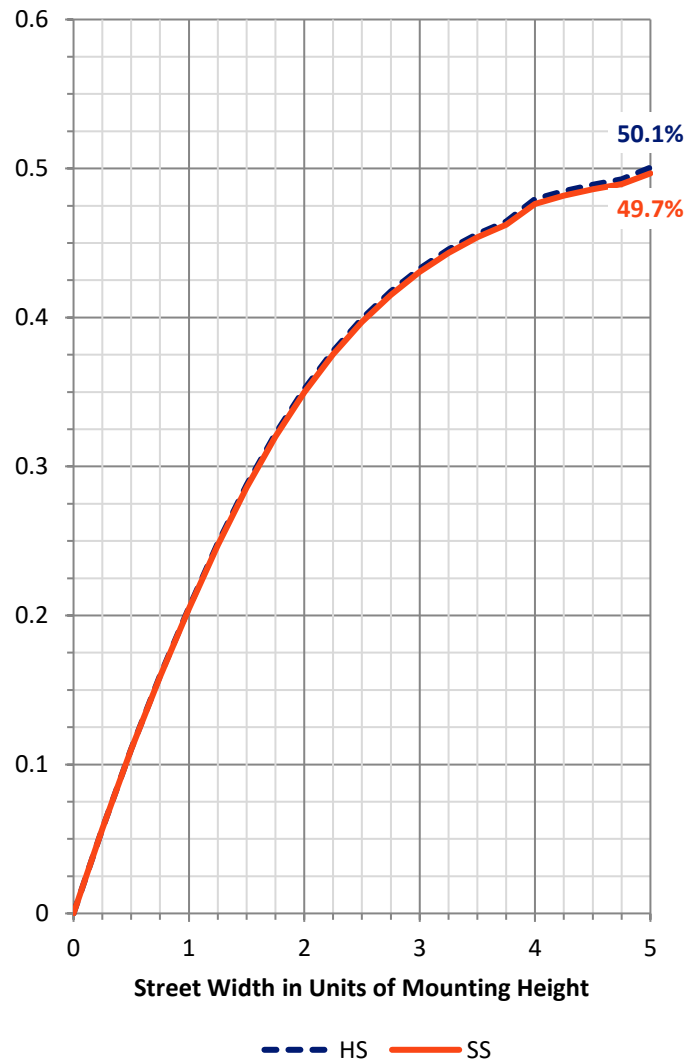
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15956.5	0.0	15956.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15956.5	0.0	15956.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31913.0	0.0	31913.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	0.8
10°-20°	702.9	2.2
20°-30°	1194.4	3.7
30°-40°	1821.7	5.7
40°-50°	2999.7	9.4
50°-60°	5238.3	16.4
60°-70°	8782.2	27.5
70°-80°	9398.7	29.5
80°-90°	1532.9	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°	31913.0	100.0
0°-180°	31913.0	100.0



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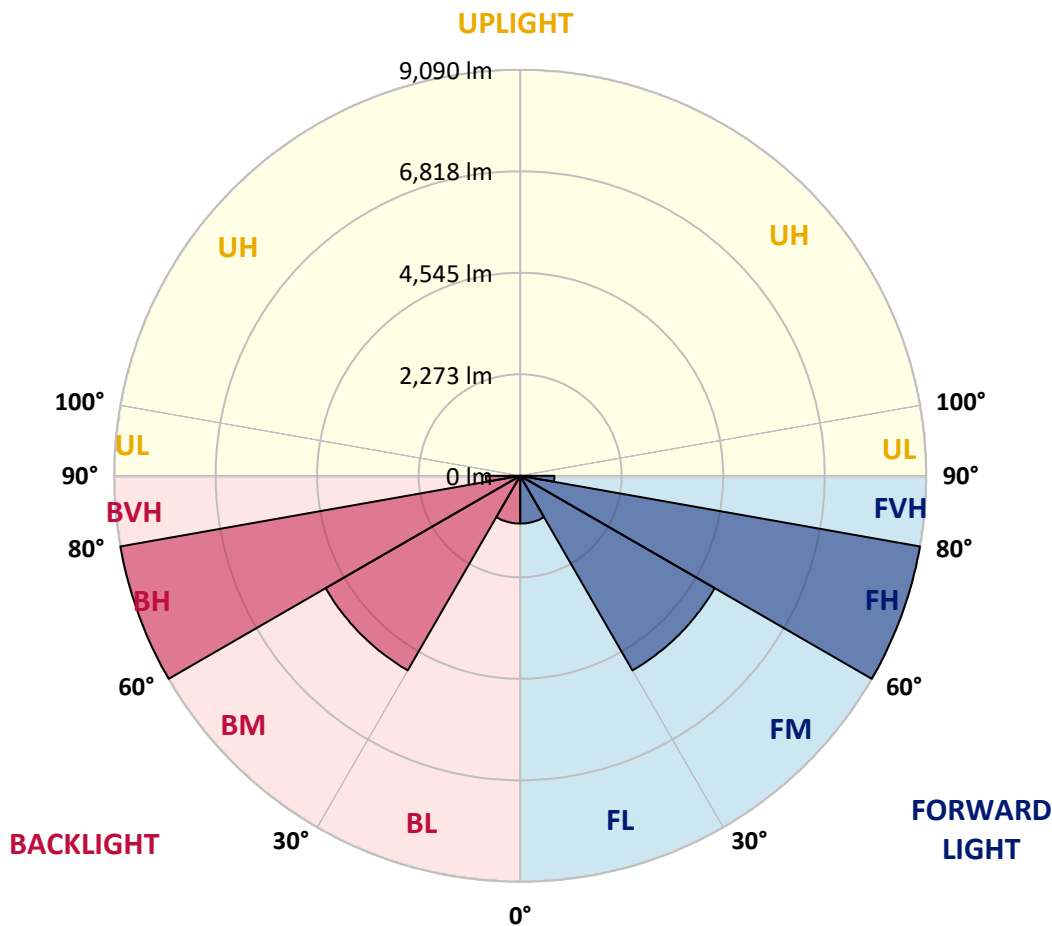
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1069.7	3.4			
FM (30°-60°)	5029.9	15.8			
FH (60°-80°)	9090.4	28.5			G4/12000
FVH (80°-90°)	766.5	2.4			G5
BL (0°-30°)	1069.7	3.4	B3/2500		
BM (30°-60°)	5029.9	15.8	B4/8500		
BH (60°-80°)	9090.4	28.5	B5		G4/12000
BVH (80°-90°)	766.5	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°	2640.8	2640.8	2640.8	2640.8	2640.8	2640.8	2640.8	2640.8	2640.8	2640.8	2640.8
2.5°	2624.5	2624.5	2624.5	2620.5	2612.3	2608.2	2600.1	2604.2	2604.2	2604.2	2604.2
5°	2591.9	2591.9	2587.9	2583.8	2575.6	2571.6	2563.4	2571.6	2571.6	2571.6	2571.6
7.5°	2530.8	2534.9	2534.9	2530.8	2518.6	2514.5	2502.3	2506.3	2506.3	2510.4	2506.3
10°	2498.2	2498.2	2494.1	2473.7	2453.4	2445.2	2441.1	2453.4	2465.6	2477.8	2477.8
12.5°	2498.2	2498.2	2490.0	2457.4	2428.9	2428.9	2428.9	2445.2	2469.7	2494.1	2498.2
15°	2510.4	2510.4	2494.1	2457.4	2441.1	2445.2	2445.2	2461.5	2490.0	2522.7	2526.7
17.5°	2518.6	2518.6	2498.2	2461.5	2461.5	2473.7	2465.6	2477.8	2506.3	2543.0	2547.1
20°	2530.8	2530.8	2502.3	2473.7	2473.7	2486.0	2486.0	2498.2	2522.7	2559.3	2563.4
22.5°	2555.3	2551.2	2522.7	2498.2	2498.2	2506.3	2514.5	2530.8	2551.2	2583.8	2591.9
25°	2583.8	2583.8	2559.3	2555.3	2563.4	2583.8	2579.7	2575.6	2583.8	2612.3	2624.5
27.5°	2600.1	2600.1	2583.8	2596.0	2628.6	2644.9	2624.5	2608.2	2608.2	2636.8	2640.8
30°	2653.1	2649.0	2632.7	2640.8	2669.4	2677.5	2665.3	2644.9	2657.1	2689.7	2693.8
32.5°	2742.7	2742.7	2718.3	2718.3	2738.6	2771.2	2730.5	2718.3	2734.6	2771.2	2775.3
35°	2881.3	2881.3	2848.7	2832.4	2848.7	2893.5	2832.4	2828.3	2856.8	2897.6	2901.7
37.5°	3056.5	3056.5	3036.1	2995.4	2999.5	3028.0	2975.0	2970.9	3023.9	3068.7	3068.7
40°	3276.6	3288.8	3268.4	3219.5	3203.2	3207.3	3166.6	3170.6	3231.8	3284.7	3284.7
42.5°	3549.6	3557.8	3525.2	3488.5	3468.1	3455.9	3415.2	3423.3	3496.7	3565.9	3565.9
45°	3879.7	3883.8	3851.2	3806.4	3781.9	3773.8	3733.0	3753.4	3834.9	3908.3	3904.2
47.5°	4250.6	4254.7	4222.1	4177.2	4160.9	4173.2	4132.4	4132.4	4205.8	4266.9	4258.8
50°	4670.4	4678.5	4641.8	4621.5	4609.2	4641.8	4592.9	4548.1	4597.0	4658.1	4650.0
52.5°	5135.0	5155.3	5130.9	5139.0	5183.9	5224.6	5143.1	5045.3	5069.8	5110.5	5098.3
55°	5697.4	5721.8	5730.0	5758.5	5876.7	5946.0	5811.5	5648.5	5636.2	5640.3	5619.9
57.5°	6329.0	6345.3	6398.3	6463.5	6708.1	6818.1	6606.2	6325.0	6235.3	6182.3	6170.1
60°	6964.8	6993.3	7123.7	7258.2	7633.2	7832.9	7506.8	7034.1	6842.5	6744.7	6724.4
62.5°	7604.6	7661.7	7873.6	8101.8	8647.9	8945.4	8444.2	7759.5	7482.4	7360.1	7327.5
65°	8346.3	8415.6	8672.4	8961.7	9569.0	9988.7	9381.5	8509.4	8211.9	8048.8	8008.1
67.5°	9214.4	9287.8	9495.6	9817.6	10392.2	10803.8	10265.8	9275.5	8888.4	8680.5	8647.9
70°	9927.6	9992.8	10216.9	10543.0	10970.9	11439.5	10926.1	9886.8	9536.4	9389.6	9369.3
72.5°	9817.6	9903.1	10233.2	10722.3	11333.6	11863.4	11215.4	10005.0	9499.7	9295.9	9230.7
75°	8574.6	8668.3	9059.5	9943.9	11060.5	11851.2	10795.6	9218.5	8623.5	8452.3	8419.7
77.5°	5677.0	5766.6	6426.8	7820.6	9658.6	10799.7	9528.2	7722.8	6765.1	6353.5	6329.0
80°	2294.4	2408.5	3040.2	4519.6	6846.6	8395.3	7066.7	4943.4	3333.6	2689.7	2559.3
82.5°	533.9	635.8	925.1	1666.8	3504.8	5228.7	3810.5	1846.1	1071.8	762.1	684.7
85°	224.1	228.2	395.3	542.0	1096.3	2111.0	1247.1	672.4	546.1	399.4	391.2
87.5°	85.6	89.7	191.5	228.2	350.5	399.4	423.8	346.4	322.0	199.7	191.5
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)