

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: P399983

Luminaire Tested: **ARCH-L-PA3-220-727-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399983
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-PA3-220-727-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 26688 lumens
Efficiency: N/A
Efficacy: 120.2 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

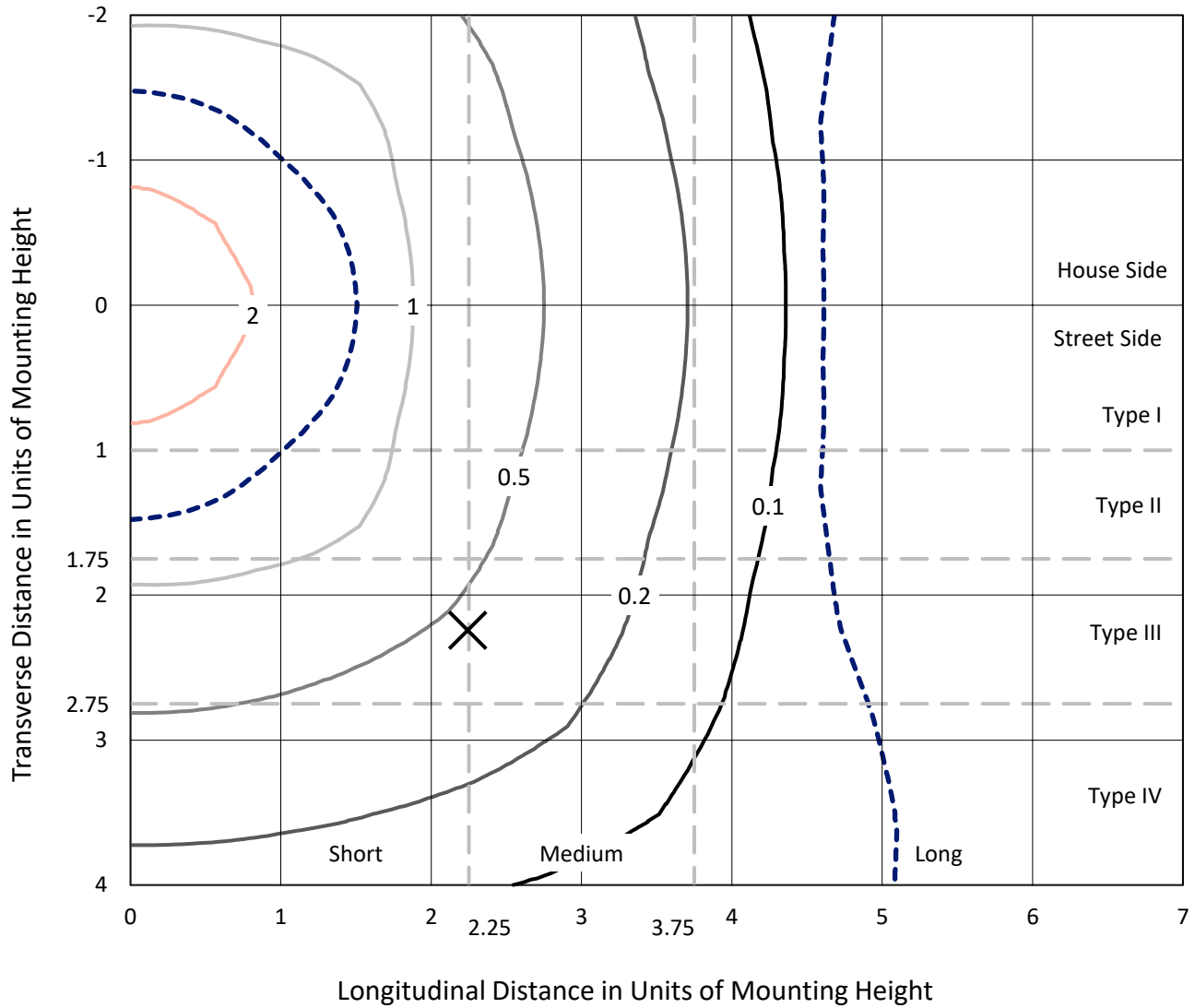
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399983
 CATALOG NUMBER: ARCH-L-PA3-220-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

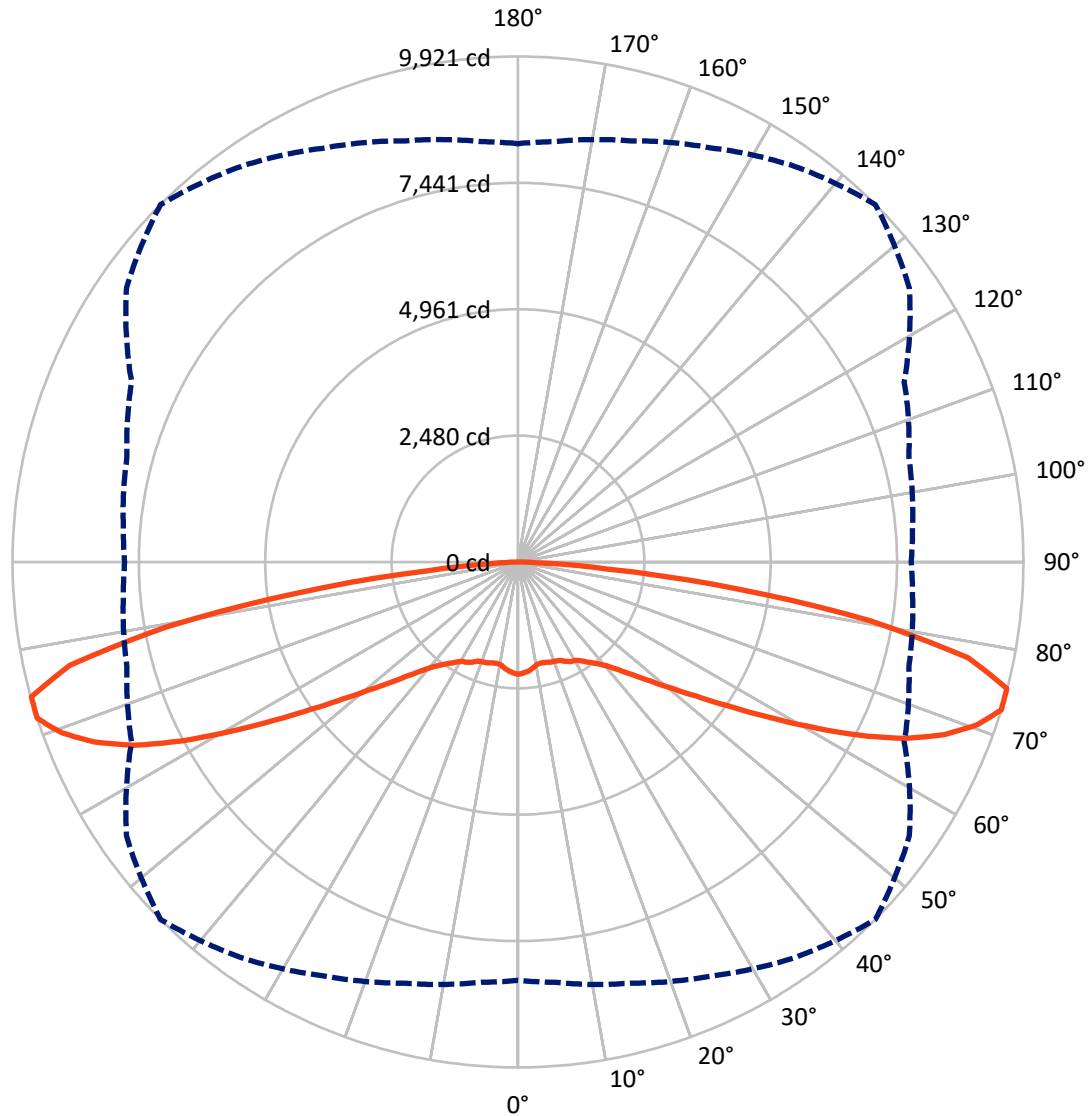
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

REPORT NUMBER: P399983
CATALOG NUMBER: ARCH-L-PA3-220-727-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P399983
 CATALOG NUMBER: ARCH-L-PA3-220-727-U-5WQ

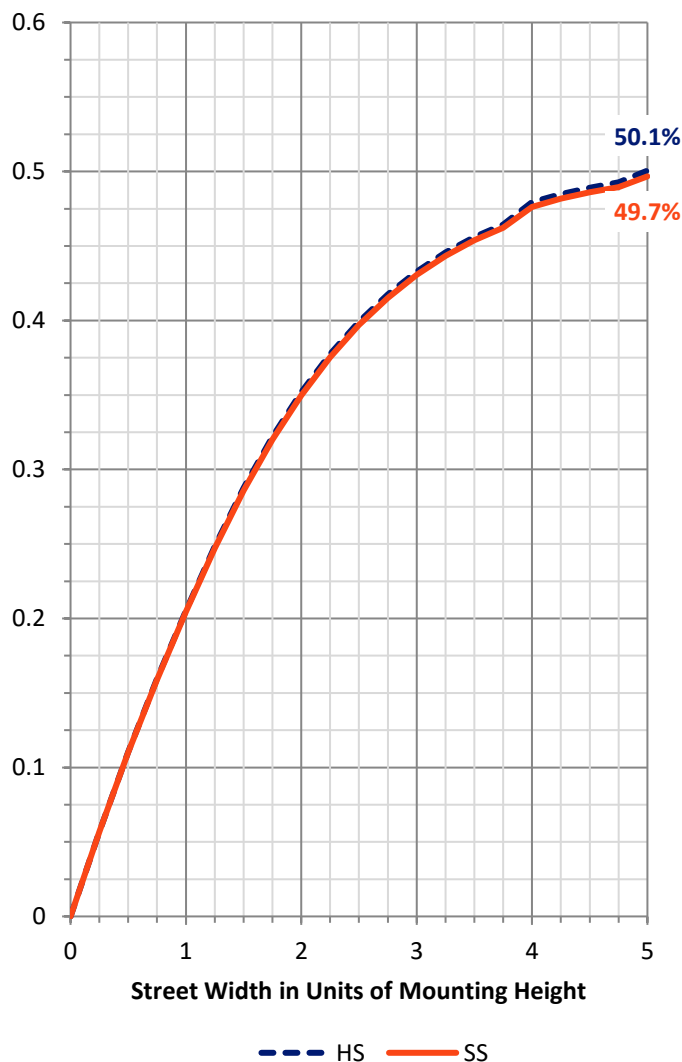
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13344.0	0.0	13344.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13344.0	0.0	13344.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26688.0	0.0	26688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	0.8
10°-20°	587.8	2.2
20°-30°	998.8	3.7
30°-40°	1523.5	5.7
40°-50°	2508.5	9.4
50°-60°	4380.7	16.4
60°-70°	7344.3	27.5
70°-80°	7859.9	29.5
80°-90°	1281.9	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°	26688.0	100.0
0°-180°	26688.0	100.0

Coefficient of Utilization

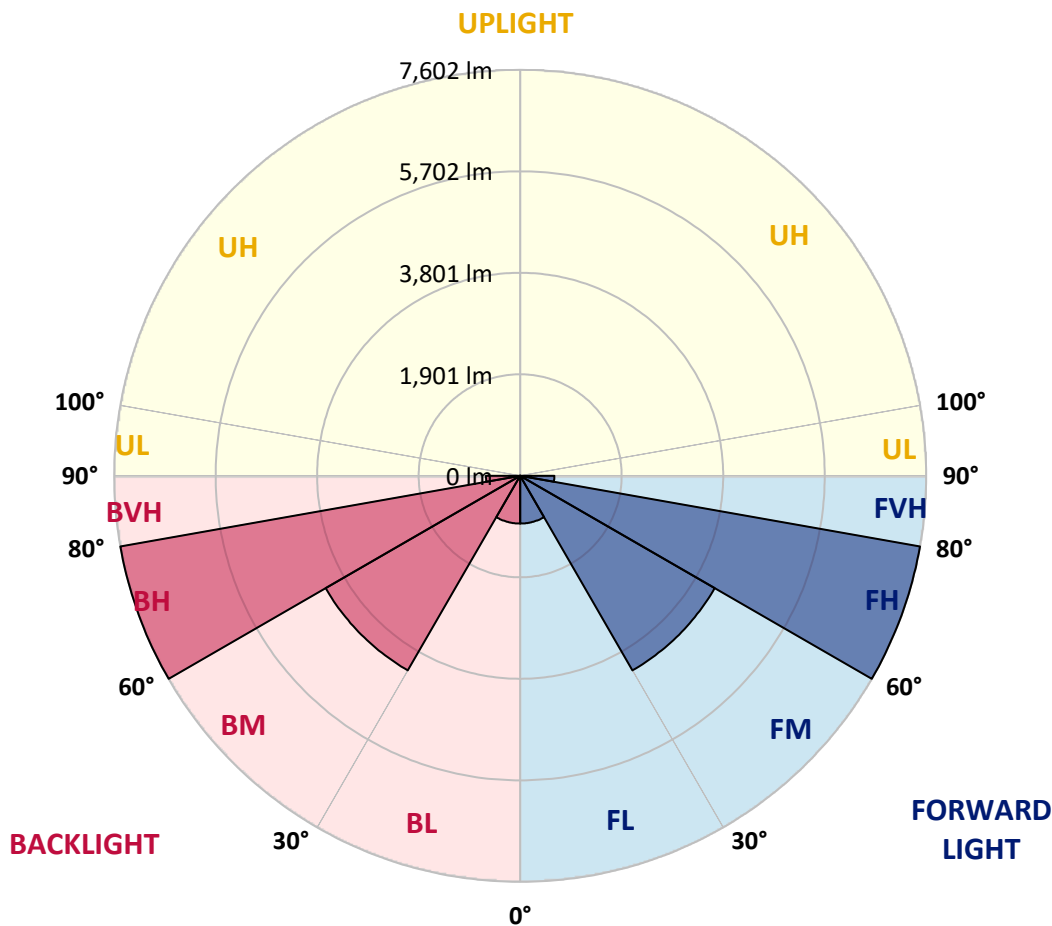


REPORT NUMBER: P399983
 CATALOG NUMBER: ARCH-L-PA3-220-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.6	3.4			
FM (30°-60°)	4206.3	15.8			
FH (60°-80°)	7602.1	28.5			G4/12000
FVH (80°-90°)	641.0	2.4			G4/750
BL (0°-30°)	894.6	3.4	B2/1000		
BM (30°-60°)	4206.3	15.8	B3/5000		
BH (60°-80°)	7602.1	28.5	B5		G4/12000
BVH (80°-90°)	641.0	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





REPORT NUMBER: P399983

CATALOG NUMBER: ARCH-L-PA3-220-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5
2.5°	2194.8	2194.8	2194.8	2191.4	2184.6	2181.2	2174.4	2177.8	2177.8	2177.8	2177.8
5°	2167.6	2167.6	2164.2	2160.7	2153.9	2150.5	2143.7	2150.5	2150.5	2150.5	2150.5
7.5°	2116.4	2119.9	2119.9	2116.4	2106.2	2102.8	2092.6	2096.0	2096.0	2099.4	2096.0
10°	2089.2	2089.2	2085.8	2068.7	2051.7	2044.9	2041.5	2051.7	2061.9	2072.1	2072.1
12.5°	2089.2	2089.2	2082.4	2055.1	2031.2	2031.2	2031.2	2044.9	2065.3	2085.8	2089.2
15°	2099.4	2099.4	2085.8	2055.1	2041.5	2044.9	2044.9	2058.5	2082.4	2109.6	2113.0
17.5°	2106.2	2106.2	2089.2	2058.5	2058.5	2068.7	2061.9	2072.1	2096.0	2126.7	2130.1
20°	2116.4	2116.4	2092.6	2068.7	2068.7	2079.0	2079.0	2089.2	2109.6	2140.3	2143.7
22.5°	2136.9	2133.5	2109.6	2089.2	2089.2	2096.0	2102.8	2116.4	2133.5	2160.7	2167.6
25°	2160.7	2160.7	2140.3	2136.9	2143.7	2160.7	2157.3	2153.9	2160.7	2184.6	2194.8
27.5°	2174.4	2174.4	2160.7	2171.0	2198.2	2211.9	2194.8	2181.2	2181.2	2205.1	2208.5
30°	2218.7	2215.3	2201.6	2208.5	2232.3	2239.1	2228.9	2211.9	2222.1	2249.4	2252.8
32.5°	2293.7	2293.7	2273.2	2273.2	2290.3	2317.5	2283.4	2273.2	2286.8	2317.5	2320.9
35°	2409.5	2409.5	2382.3	2368.6	2382.3	2419.8	2368.6	2365.2	2389.1	2423.2	2426.6
37.5°	2556.1	2556.1	2539.0	2505.0	2508.4	2532.2	2487.9	2484.5	2528.8	2566.3	2566.3
40°	2740.1	2750.4	2733.3	2692.4	2678.8	2682.2	2648.1	2651.5	2702.6	2746.9	2746.9
42.5°	2968.5	2975.3	2948.0	2917.4	2900.3	2890.1	2856.0	2862.8	2924.2	2982.1	2982.1
45°	3244.5	3247.9	3220.7	3183.2	3162.7	3155.9	3121.8	3138.9	3207.0	3268.4	3265.0
47.5°	3554.7	3558.1	3530.8	3493.3	3479.7	3489.9	3455.8	3455.8	3517.2	3568.3	3561.5
50°	3905.7	3912.5	3881.8	3864.8	3854.6	3881.8	3841.0	3803.5	3844.4	3895.5	3888.7
52.5°	4294.2	4311.3	4290.8	4297.6	4335.1	4369.2	4301.0	4219.3	4239.7	4273.8	4263.6
55°	4764.6	4785.0	4791.8	4815.7	4914.5	4972.4	4860.0	4723.7	4713.4	4716.8	4699.8
57.5°	5292.8	5306.4	5350.7	5405.3	5609.8	5701.8	5524.6	5289.4	5214.4	5170.1	5159.9
60°	5824.5	5848.3	5957.4	6069.9	6383.4	6550.4	6277.8	5882.4	5722.2	5640.4	5623.4
62.5°	6359.6	6407.3	6584.5	6775.3	7232.0	7480.8	7061.6	6489.1	6257.3	6155.1	6127.8
65°	6979.8	7037.8	7252.5	7494.5	8002.3	8353.3	7845.5	7116.2	6867.4	6731.0	6697.0
67.5°	7705.8	7767.1	7940.9	8210.2	8690.7	9034.9	8585.1	7756.9	7433.1	7259.3	7232.0
70°	8302.2	8356.7	8544.2	8816.8	9174.7	9566.6	9137.2	8268.1	7975.0	7852.3	7835.3
72.5°	8210.2	8281.7	8557.8	8966.8	9478.0	9921.0	9379.1	8366.9	7944.3	7773.9	7719.4
75°	7170.7	7249.1	7576.3	8315.8	9249.6	9910.8	9028.1	7709.2	7211.6	7068.4	7041.2
77.5°	4747.5	4822.5	5374.6	6540.2	8077.2	9031.5	7968.2	6458.4	5657.5	5313.3	5292.8
80°	1918.8	2014.2	2542.5	3779.6	5725.6	7020.7	5909.7	4134.0	2787.8	2249.4	2140.3
82.5°	446.5	531.7	773.6	1393.9	2931.0	4372.6	3186.6	1543.9	896.3	637.3	572.6
85°	187.4	190.9	330.6	453.3	916.8	1765.4	1042.9	562.3	456.7	334.0	327.2
87.5°	71.6	75.0	160.2	190.9	293.1	334.0	354.4	289.7	269.2	167.0	160.2
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)