

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: P399776

Luminaire Tested: **ARCH-L-PA3-190-730-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399776
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-PA3-190-730-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25986 lumens
Efficiency: N/A
Efficacy: 137.5 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

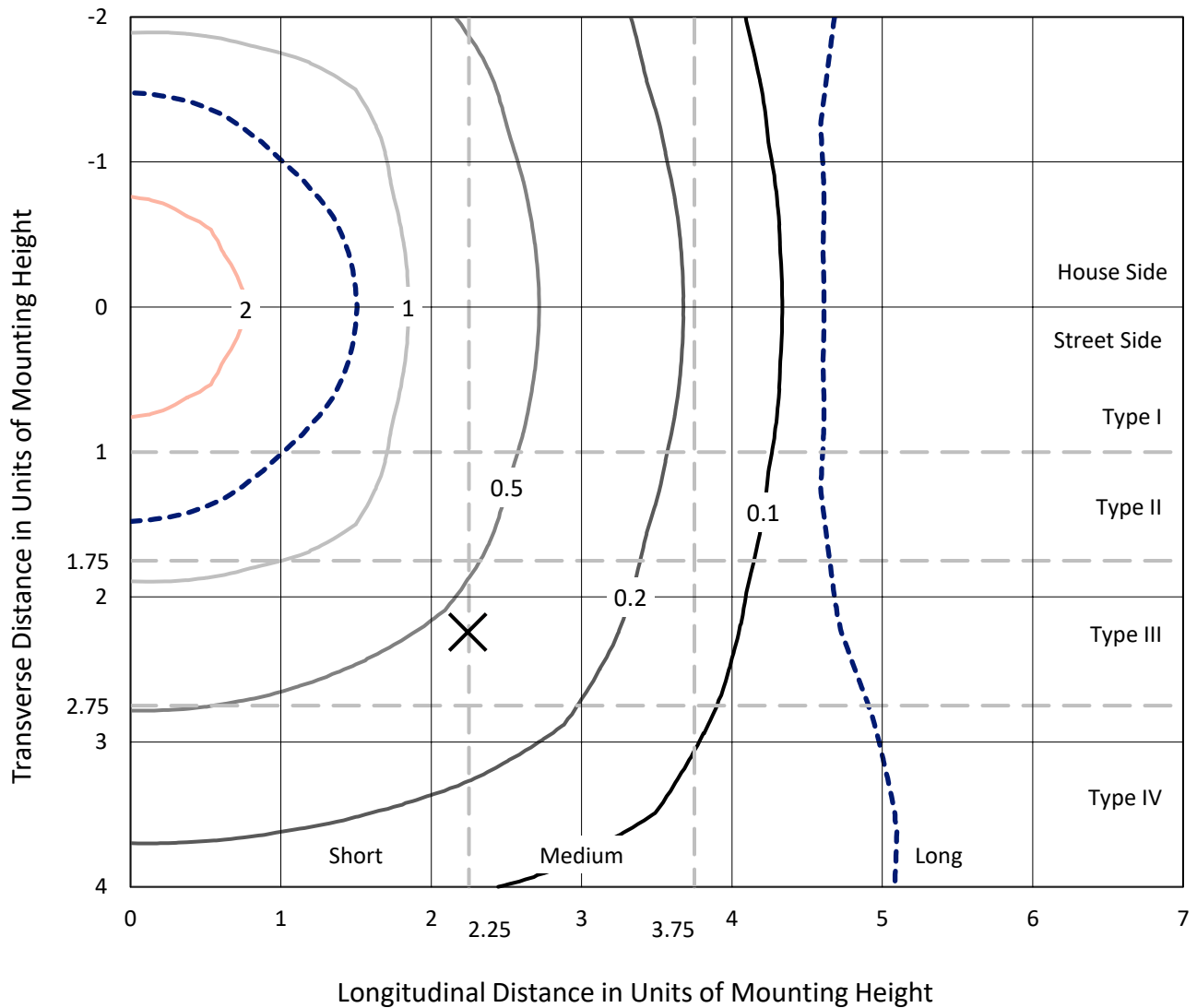
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

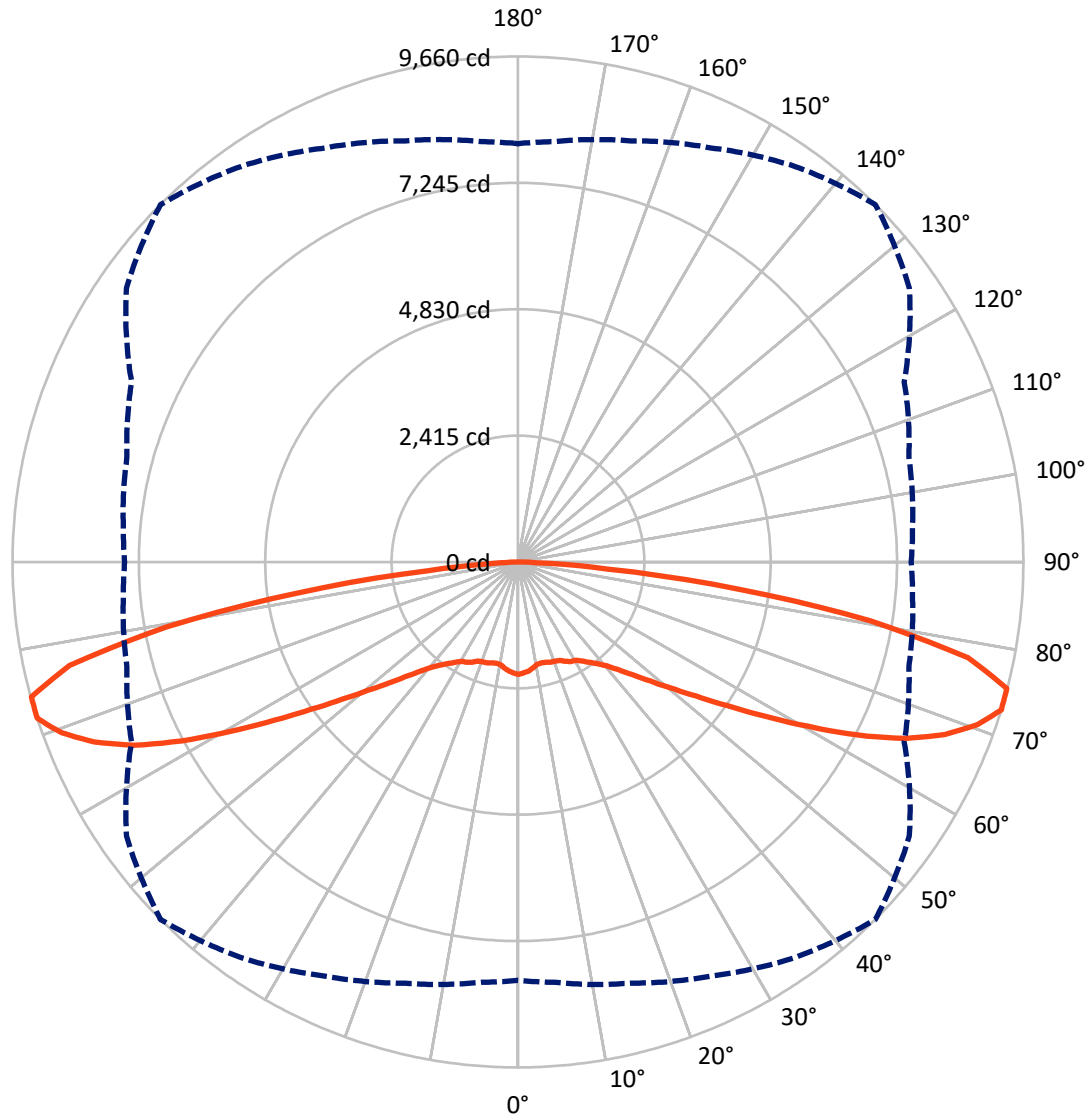
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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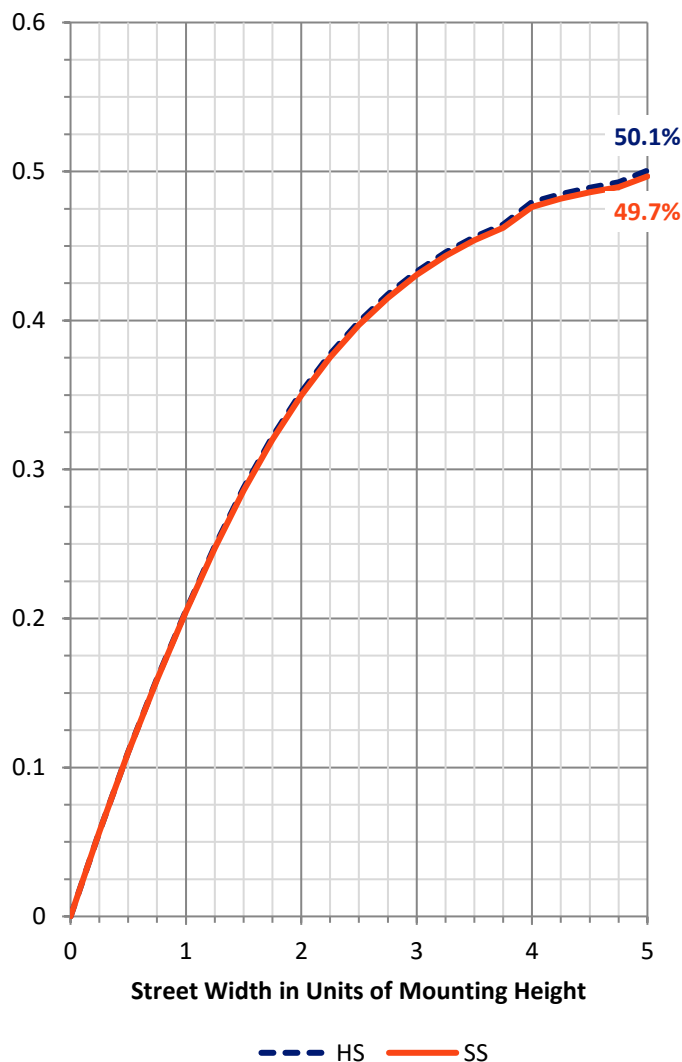
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12993.0	0.0	12993.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12993.0	0.0	12993.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25986.0	0.0	25986.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	0.8
10°-20°	572.4	2.2
20°-30°	972.5	3.7
30°-40°	1483.4	5.7
40°-50°	2442.6	9.4
50°-60°	4265.4	16.4
60°-70°	7151.1	27.5
70°-80°	7653.2	29.5
80°-90°	1248.2	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°	25986.0	100.0
0°-180°	25986.0	100.0

Coefficient of Utilization



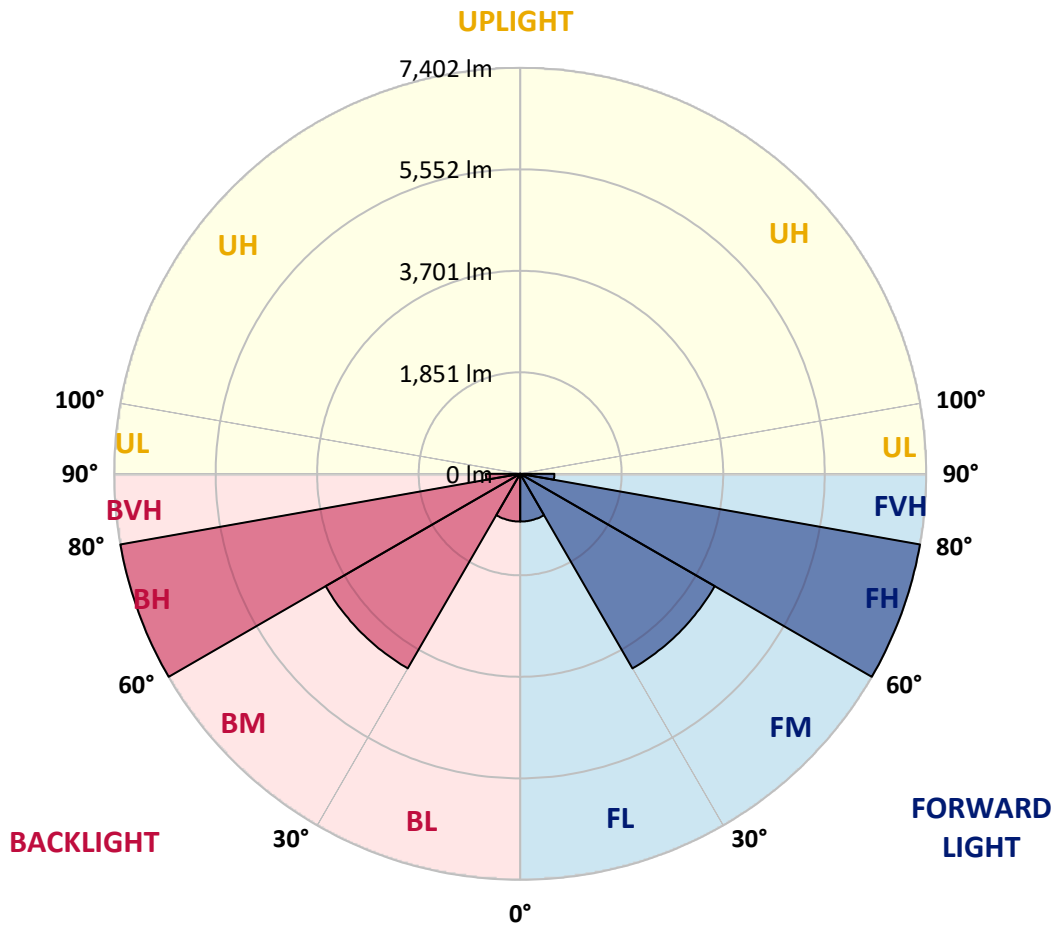
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	871.0	3.4			
FM (30°-60°)	4095.7	15.8			
FH (60°-80°)	7402.1	28.5			G3/7500
FVH (80°-90°)	624.1	2.4			G4/750
BL (0°-30°)	871.0	3.4	B2/1000		
BM (30°-60°)	4095.7	15.8	B3/5000		
BH (60°-80°)	7402.1	28.5	B5		G3/7500
BVH (80°-90°)	624.1	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°	2150.4	2150.4	2150.4	2150.4	2150.4	2150.4	2150.4	2150.4	2150.4	2150.4	2150.4
2.5°	2137.1	2137.1	2137.1	2133.8	2127.1	2123.8	2117.2	2120.5	2120.5	2120.5	2120.5
5°	2110.5	2110.5	2107.2	2103.9	2097.3	2094.0	2087.3	2094.0	2094.0	2094.0	2094.0
7.5°	2060.8	2064.1	2064.1	2060.8	2050.8	2047.5	2037.5	2040.9	2040.9	2044.2	2040.9
10°	2034.2	2034.2	2030.9	2014.3	1997.7	1991.1	1987.8	1997.7	2007.7	2017.6	2017.6
12.5°	2034.2	2034.2	2027.6	2001.0	1977.8	1977.8	1977.8	1991.1	2011.0	2030.9	2034.2
15°	2044.2	2044.2	2030.9	2001.0	1987.8	1991.1	1991.1	2004.4	2027.6	2054.1	2057.5
17.5°	2050.8	2050.8	2034.2	2004.4	2004.4	2014.3	2007.7	2017.6	2040.9	2070.7	2074.0
20°	2060.8	2060.8	2037.5	2014.3	2014.3	2024.3	2024.3	2034.2	2054.1	2084.0	2087.3
22.5°	2080.7	2077.4	2054.1	2034.2	2034.2	2040.9	2047.5	2060.8	2077.4	2103.9	2110.5
25°	2103.9	2103.9	2084.0	2080.7	2087.3	2103.9	2100.6	2097.3	2103.9	2127.1	2137.1
27.5°	2117.2	2117.2	2103.9	2113.9	2140.4	2153.7	2137.1	2123.8	2123.8	2147.1	2150.4
30°	2160.3	2157.0	2143.7	2150.4	2173.6	2180.2	2170.3	2153.7	2163.6	2190.2	2193.5
32.5°	2233.3	2233.3	2213.4	2213.4	2230.0	2256.6	2223.4	2213.4	2226.7	2256.6	2259.9
35°	2346.2	2346.2	2319.6	2306.3	2319.6	2356.1	2306.3	2303.0	2326.2	2359.4	2362.8
37.5°	2488.9	2488.9	2472.3	2439.1	2442.4	2465.6	2422.5	2419.2	2462.3	2498.8	2498.8
40°	2668.1	2678.0	2661.4	2621.6	2608.3	2611.6	2578.5	2581.8	2631.5	2674.7	2674.7
42.5°	2890.4	2897.0	2870.5	2840.6	2824.0	2814.1	2780.9	2787.5	2847.2	2903.7	2903.7
45°	3159.2	3162.5	3136.0	3099.5	3079.5	3072.9	3039.7	3056.3	3122.7	3182.4	3179.1
47.5°	3461.2	3464.5	3437.9	3401.4	3388.2	3398.1	3364.9	3364.9	3424.7	3474.4	3467.8
50°	3803.0	3809.6	3779.7	3763.1	3753.2	3779.7	3739.9	3703.4	3743.2	3793.0	3786.4
52.5°	4181.3	4197.9	4178.0	4184.6	4221.1	4254.3	4187.9	4108.3	4128.2	4161.4	4151.4
55°	4639.2	4659.1	4665.8	4689.0	4785.2	4841.7	4732.1	4599.4	4589.4	4592.8	4576.2
57.5°	5153.6	5166.9	5210.0	5263.1	5462.2	5551.8	5379.2	5150.3	5077.3	5034.1	5024.2
60°	5671.3	5694.5	5800.7	5910.2	6215.5	6378.1	6112.6	5727.7	5571.7	5492.1	5475.5
62.5°	6192.3	6238.7	6411.3	6597.1	7041.8	7284.0	6875.9	6318.4	6092.7	5993.2	5966.6
65°	6796.2	6852.6	7061.7	7297.3	7791.8	8133.6	7639.1	6929.0	6686.7	6554.0	6520.8
67.5°	7503.1	7562.8	7732.0	7994.2	8462.1	8797.3	8359.2	7552.8	7237.6	7068.3	7041.8
70°	8083.8	8136.9	8319.4	8584.9	8933.3	9315.0	8896.8	8050.6	7765.2	7645.8	7629.2
72.5°	7994.2	8063.9	8332.7	8730.9	9228.7	9660.1	9132.4	8146.9	7735.4	7569.4	7516.3
75°	6982.1	7058.4	7377.0	8097.1	9006.3	9650.1	8790.6	7506.4	7021.9	6882.5	6856.0
77.5°	4622.6	4695.6	5233.2	6368.1	7864.8	8794.0	7758.6	6288.5	5508.7	5173.5	5153.6
80°	1868.3	1961.2	2475.6	3680.2	5575.0	6836.1	5754.2	4025.3	2714.5	2190.2	2084.0
82.5°	434.7	517.7	753.3	1357.3	2853.9	4257.6	3102.8	1503.3	872.8	620.6	557.5
85°	182.5	185.8	321.9	441.4	892.7	1719.0	1015.5	547.5	444.7	325.2	318.6
87.5°	69.7	73.0	156.0	185.8	285.4	325.2	345.1	282.1	262.2	162.6	156.0
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)