

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: P236725

Luminaire Tested: **ARCH-L-AF72-120-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-120-D-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17494.5 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G3

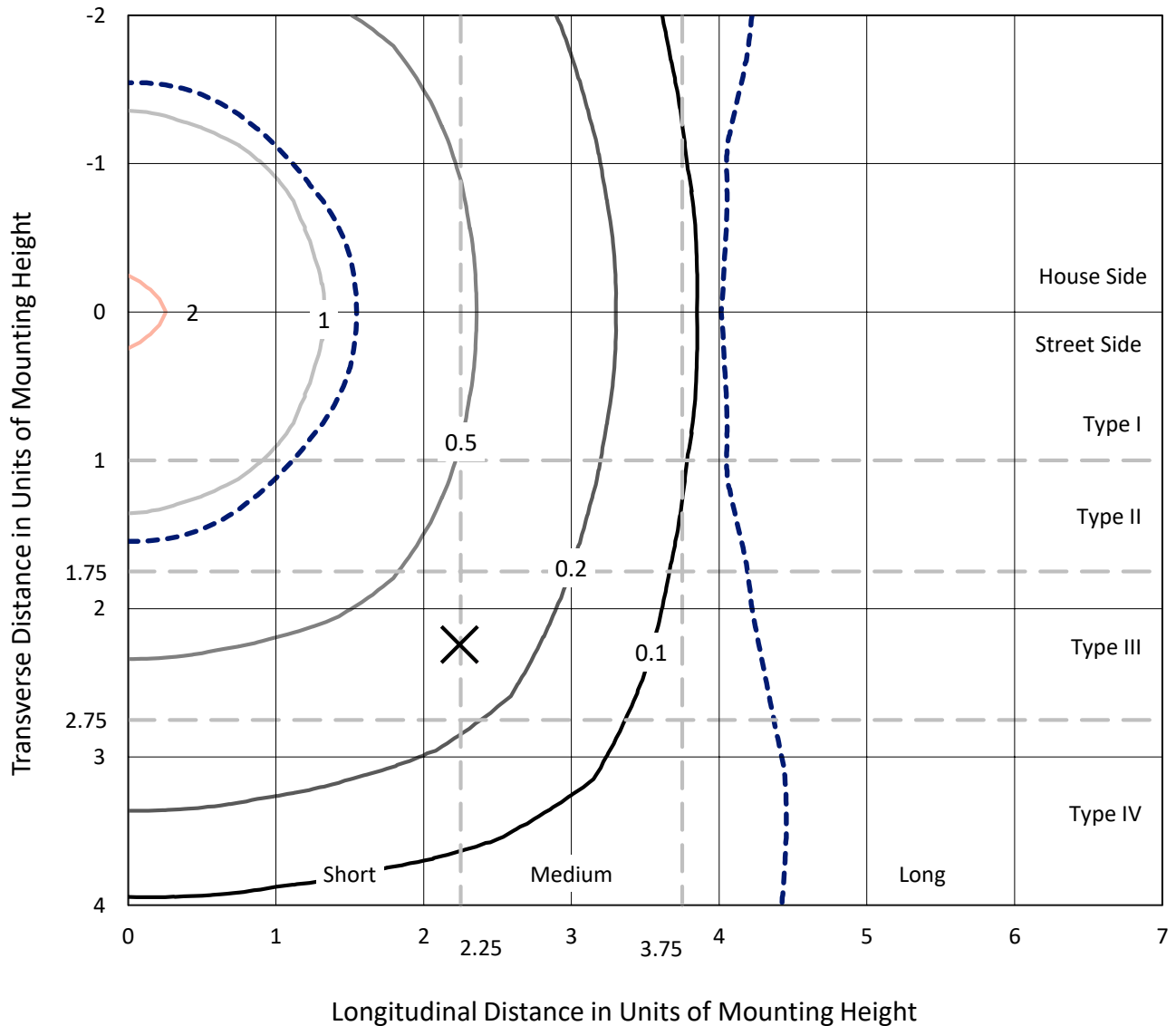
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

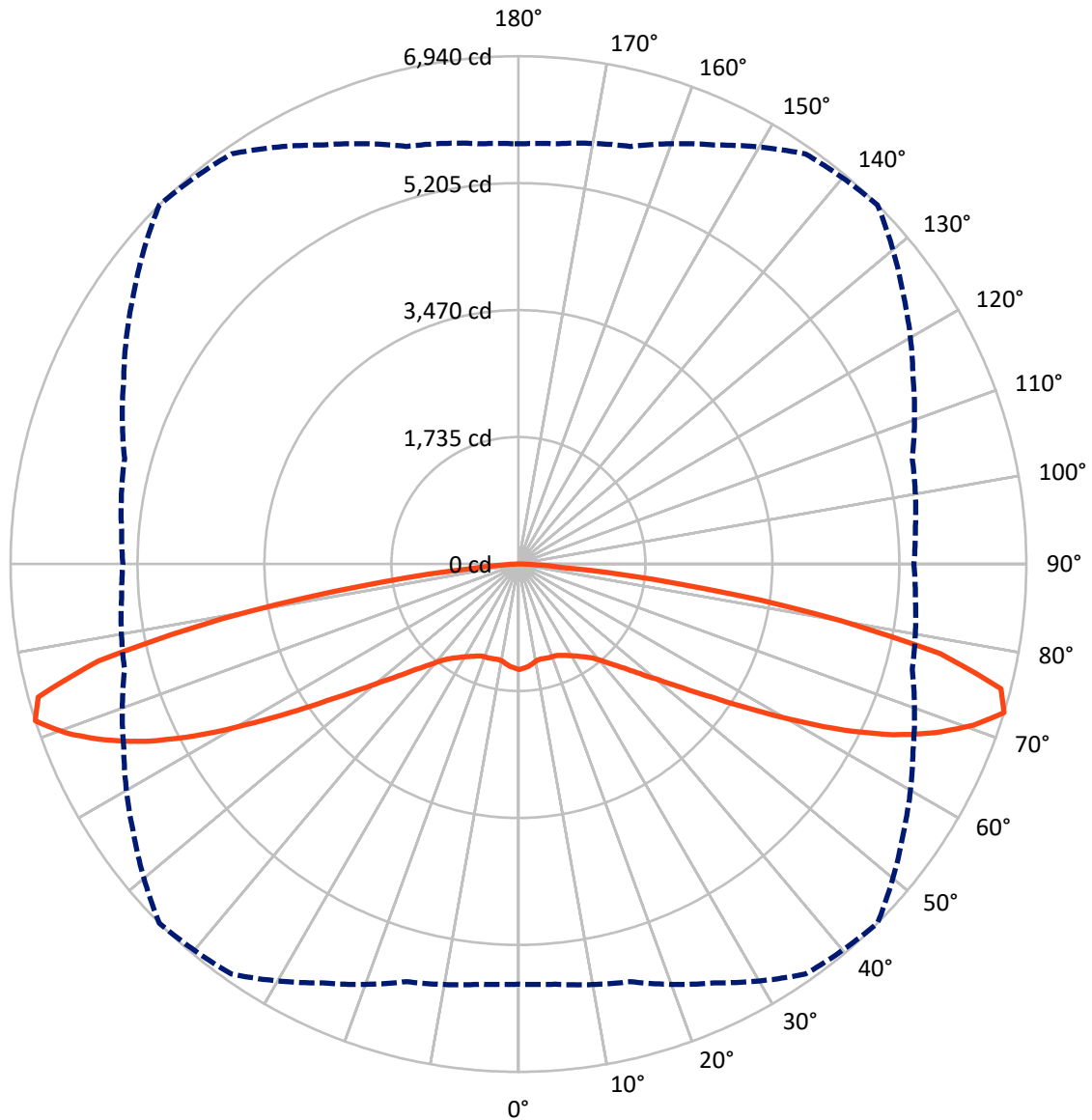
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Non-Cutoff

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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	8747.3	0.0	8747.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8747.3	0.0	8747.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	17494.5	0.0	17494.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	0.8
10°-20°	382.8	2.2
20°-30°	640.6	3.7
30°-40°	984.3	5.6
40°-50°	1629.8	9.3
50°-60°	2897.4	16.6
60°-70°	5069.0	29.0
70°-80°	5157.3	29.5
80°-90°	600.5	3.4
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°	17494.5	100.0
0°-180°	17494.5	100.0



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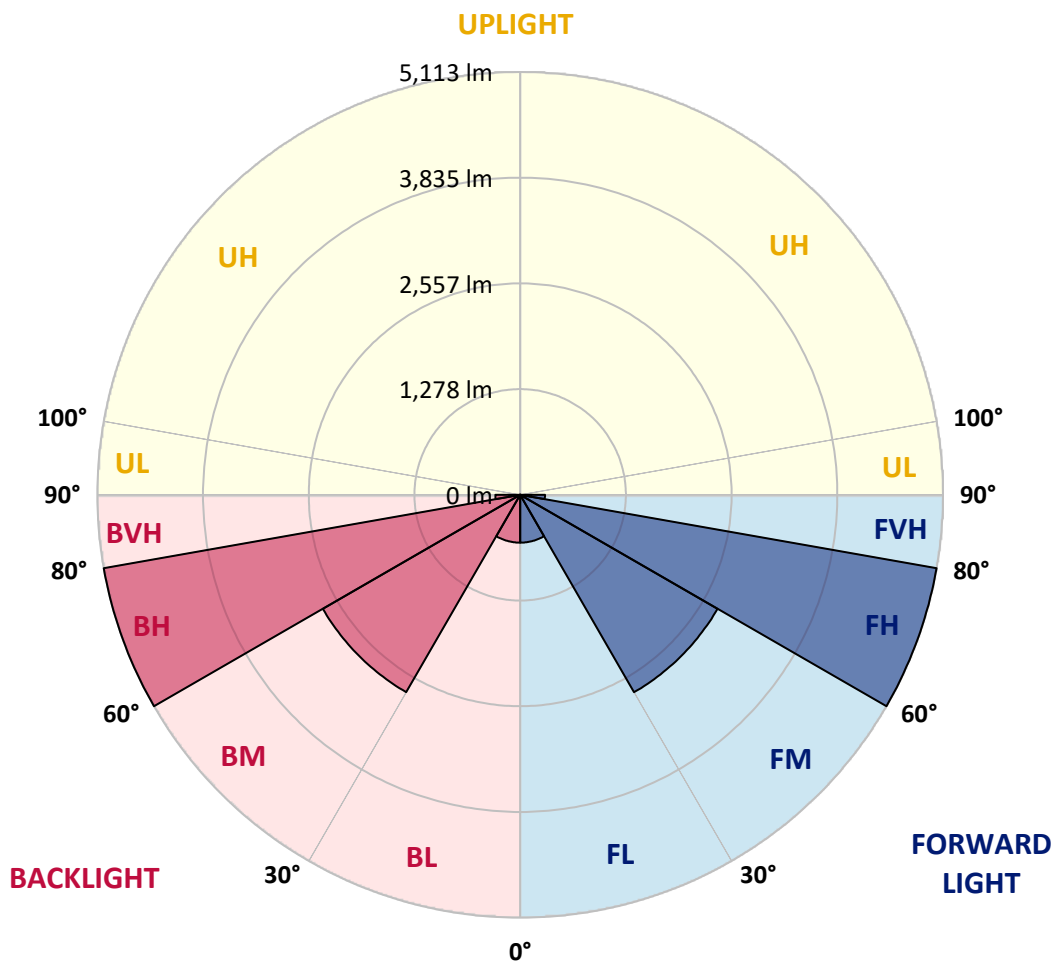
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	578.1	3.3			
FM	(30°-60°)	2755.8	15.8			
FH	(60°-80°)	5113.2	29.2			G3/7500
FVH	(80°-90°)	300.3	1.7			G3/500
BL	(0°-30°)	578.1	3.3	B2/1000		
BM	(30°-60°)	2755.8	15.8	B3/5000		
BH	(60°-80°)	5113.2	29.2	B5		G3/7500
BVH	(80°-90°)	300.3	1.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1442.0	1442.0	1442.0	1442.0	1442.0	1442.0	1442.0	1442.0	1442.0	1442.0	1442.0
2.5°	1428.7	1431.9	1425.3	1425.3	1425.3	1422.0	1425.3	1422.0	1425.3	1428.7	1428.7
5°	1415.4	1415.4	1408.6	1408.6	1408.6	1405.3	1408.6	1408.6	1412.0	1415.4	1415.4
7.5°	1385.4	1385.4	1382.0	1378.6	1375.4	1375.4	1378.6	1378.6	1382.0	1385.4	1385.4
10°	1368.7	1365.3	1358.7	1348.8	1345.4	1342.0	1348.8	1355.4	1365.3	1375.4	1372.0
12.5°	1362.1	1358.7	1345.4	1335.4	1328.7	1332.1	1338.7	1345.4	1362.1	1372.0	1368.7
15°	1368.7	1362.1	1345.4	1328.7	1332.1	1338.7	1345.4	1345.4	1365.3	1375.4	1375.4
17.5°	1368.7	1365.3	1345.4	1332.1	1335.4	1345.4	1348.8	1345.4	1362.1	1378.6	1378.6
20°	1372.0	1372.0	1345.4	1335.4	1338.7	1348.8	1352.0	1348.8	1362.1	1382.0	1382.0
22.5°	1378.6	1375.4	1348.8	1342.0	1348.8	1355.4	1358.7	1355.4	1368.7	1385.4	1388.7
25°	1392.0	1385.4	1362.1	1358.7	1372.0	1382.0	1382.0	1375.4	1382.0	1398.7	1398.7
27.5°	1408.6	1405.3	1378.6	1378.6	1395.3	1415.4	1405.3	1392.0	1398.7	1415.4	1415.4
30°	1438.6	1435.3	1408.6	1408.6	1431.9	1455.2	1431.9	1415.4	1425.3	1442.0	1445.3
32.5°	1481.9	1481.9	1458.6	1452.0	1491.9	1501.9	1491.9	1458.6	1465.3	1488.6	1488.6
35°	1555.2	1548.5	1525.2	1521.8	1561.8	1558.5	1555.2	1525.2	1531.9	1558.5	1558.5
37.5°	1651.8	1648.4	1628.4	1618.4	1638.5	1625.2	1631.8	1618.4	1635.1	1655.0	1658.4
40°	1774.9	1771.6	1755.0	1741.7	1748.3	1728.4	1735.0	1741.7	1758.4	1771.6	1774.9
42.5°	1928.2	1928.2	1911.5	1888.2	1878.2	1868.2	1868.2	1881.5	1898.2	1914.9	1914.9
45°	2118.0	2118.0	2098.0	2074.6	2044.7	2028.1	2034.8	2048.0	2068.0	2088.0	2094.7
47.5°	2341.1	2341.1	2314.4	2291.1	2261.1	2241.2	2241.2	2247.8	2277.8	2294.5	2304.5
50°	2590.8	2580.9	2554.2	2530.9	2514.3	2487.6	2491.0	2487.6	2514.3	2537.5	2544.3
52.5°	2850.6	2847.3	2820.7	2813.9	2824.0	2810.7	2810.7	2777.3	2787.3	2800.6	2797.4
55°	3173.6	3163.7	3140.4	3153.7	3193.7	3213.6	3207.0	3153.7	3123.7	3130.3	3127.1
57.5°	3526.6	3516.6	3509.9	3549.9	3639.9	3723.1	3706.5	3583.2	3526.6	3530.0	3533.3
60°	3886.3	3886.3	3906.2	4006.2	4199.3	4335.9	4285.9	4079.4	3979.5	3959.5	3952.9
62.5°	4255.9	4265.9	4309.2	4475.7	4772.1	4998.5	4872.0	4578.9	4429.1	4389.2	4375.8
65°	4685.5	4695.5	4758.8	4965.2	5358.2	5628.0	5411.5	5135.1	4925.3	4842.0	4828.7
67.5°	5308.3	5314.9	5364.9	5564.6	5934.3	6150.8	5927.7	5681.3	5454.8	5358.2	5351.6
70°	5867.7	5874.4	5917.7	6180.8	6520.4	6597.0	6350.6	6037.6	5801.2	5724.5	5711.2
72.5°	5741.2	5764.5	5907.6	6317.3	6840.2	6940.0	6420.6	5951.0	5571.3	5444.8	5404.9
75°	4815.4	4852.1	5078.4	5694.6	6527.0	6810.2	6007.6	5145.0	4578.9	4335.9	4272.6
77.5°	2810.7	2947.2	3336.8	4126.1	5314.9	5891.1	4948.6	3766.4	2813.9	2414.4	2281.2
80°	769.3	842.5	1125.6	1898.2	3333.5	4126.1	3156.9	1728.4	932.4	699.3	649.4
82.5°	243.1	323.0	409.6	546.2	1308.8	2174.6	1172.2	509.5	399.7	329.7	293.1
85°	129.9	139.8	229.8	266.4	392.9	609.4	362.9	266.4	239.8	176.5	166.5
87.5°	66.6	70.0	129.9	129.9	173.2	143.2	156.5	143.2	136.6	86.5	76.6
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)