

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: P230966

Luminaire Tested: **ARCH-M-AF48-120-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230966
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-M-AF48-120-D-U-5WQ
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16048 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

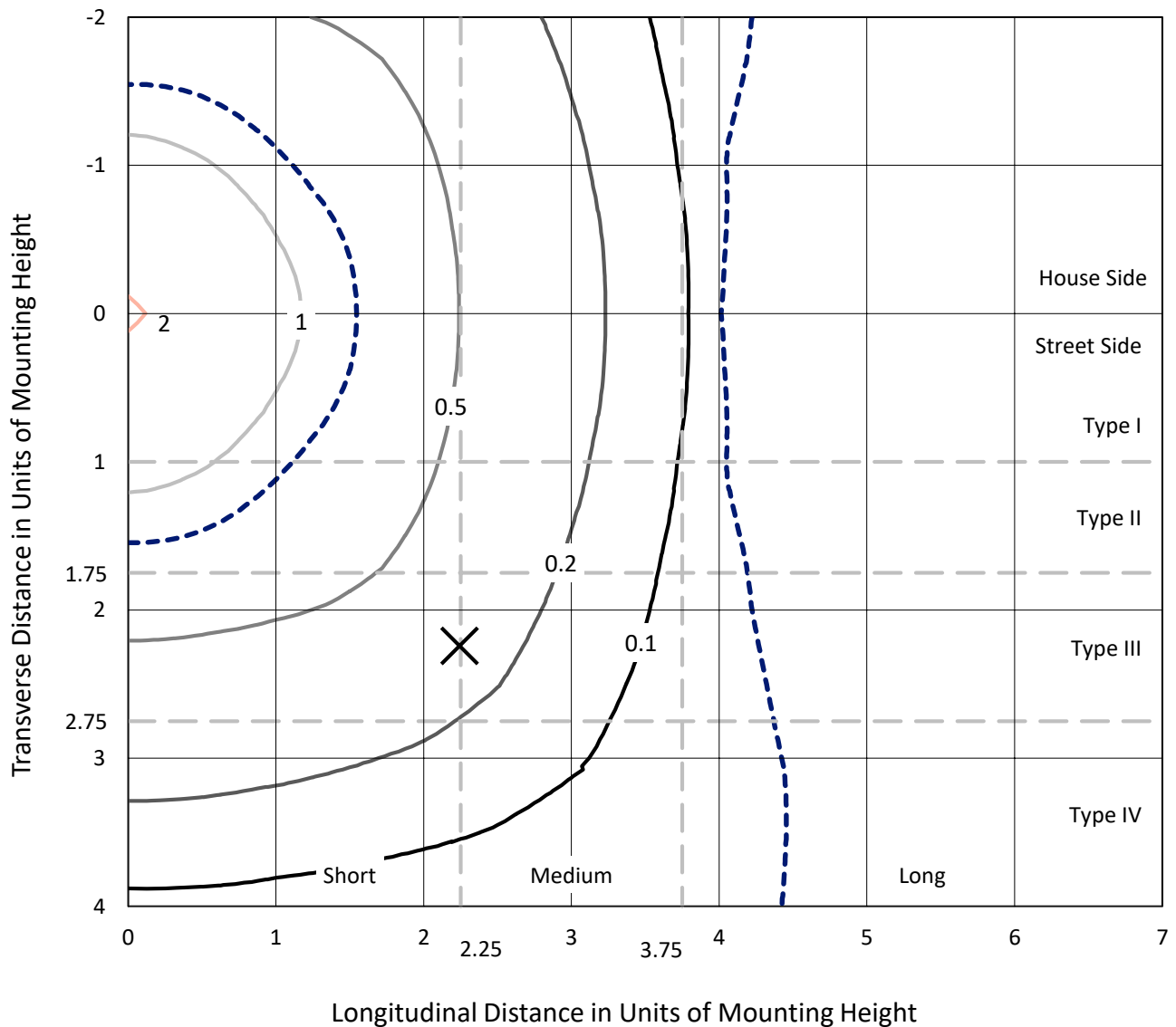
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

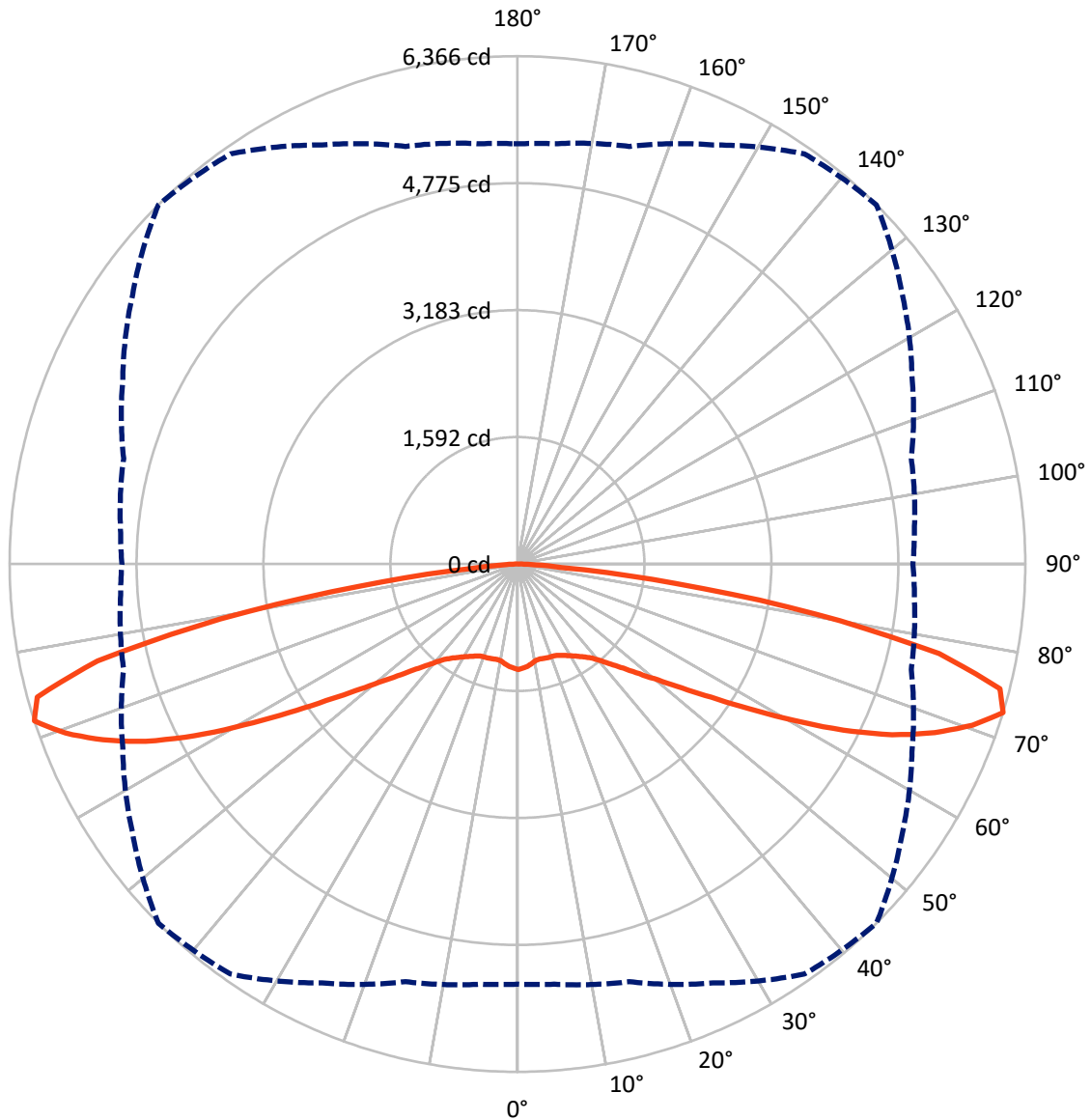


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Non-Cutoff

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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	8024.0	0.0	8024.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8024.0	0.0	8024.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16048.0	0.0	16048.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	0.8
10°-20°	351.2	2.2
20°-30°	587.6	3.7
30°-40°	902.9	5.6
40°-50°	1495.0	9.3
50°-60°	2657.9	16.6
60°-70°	4649.9	29.0
70°-80°	4730.9	29.5
80°-90°	550.9	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°	16048.0	100.0
0°-180°	16048.0	100.0



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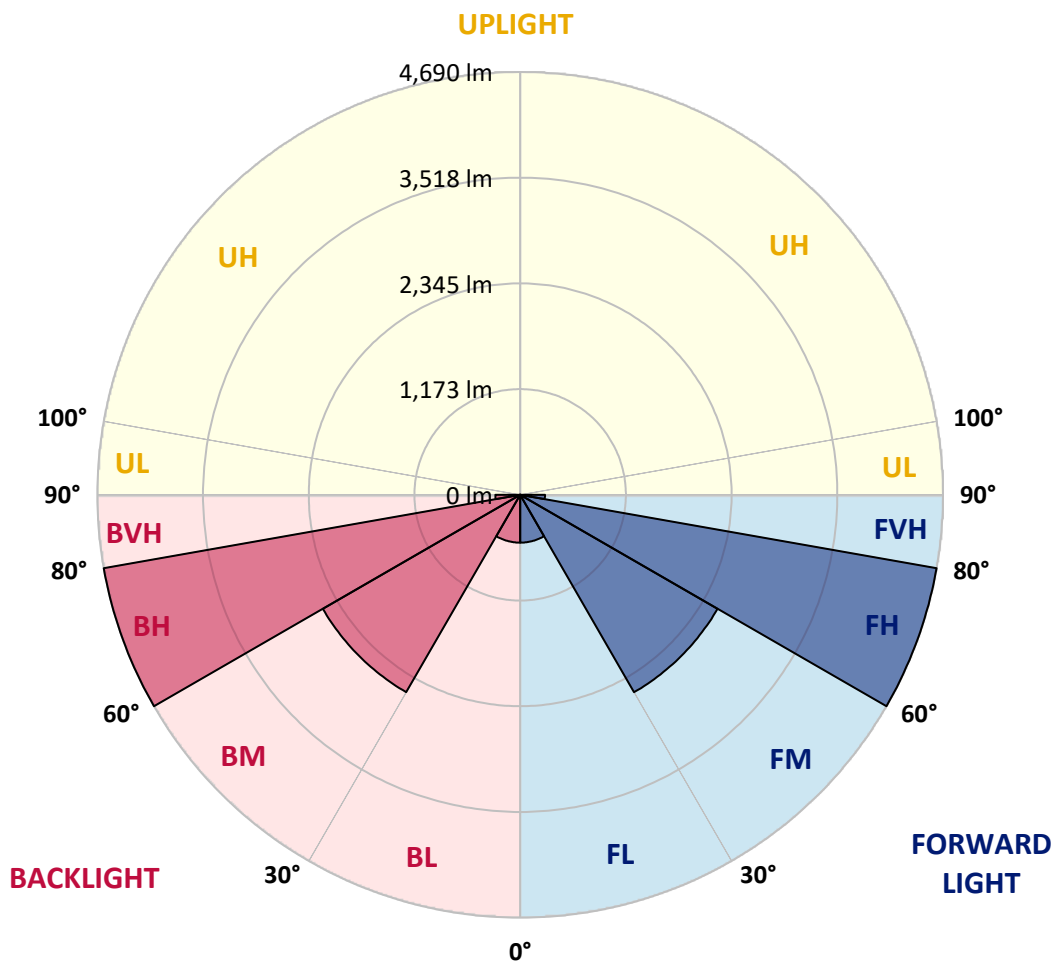
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	530.3	3.3			
FM	(30°-60°)	2527.9	15.8			
FH	(60°-80°)	4690.4	29.2			G2/5000
FVH	(80°-90°)	275.4	1.7			G3/500
BL	(0°-30°)	530.3	3.3	B2/1000		
BM	(30°-60°)	2527.9	15.8	B3/5000		
BH	(60°-80°)	4690.4	29.2	B4/5000		G2/5000
BVH	(80°-90°)	275.4	1.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8
2.5°	1310.5	1313.6	1307.4	1307.4	1307.4	1304.4	1307.4	1304.4	1307.4	1310.5	1310.5
5°	1298.3	1298.3	1292.2	1292.2	1292.2	1289.1	1292.2	1292.2	1295.3	1298.3	1298.3
7.5°	1270.8	1270.8	1267.7	1264.7	1261.6	1261.6	1264.7	1264.7	1267.7	1270.8	1270.8
10°	1255.6	1252.5	1246.4	1237.2	1234.2	1231.1	1237.2	1243.3	1252.5	1261.6	1258.5
12.5°	1249.4	1246.4	1234.2	1225.0	1218.8	1221.9	1228.1	1234.2	1249.4	1258.5	1255.6
15°	1255.6	1249.4	1234.2	1218.8	1221.9	1228.1	1234.2	1234.2	1252.5	1261.6	1261.6
17.5°	1255.6	1252.5	1234.2	1221.9	1225.0	1234.2	1237.2	1234.2	1249.4	1264.7	1264.7
20°	1258.5	1258.5	1234.2	1225.0	1228.1	1237.2	1240.2	1237.2	1249.4	1267.7	1267.7
22.5°	1264.7	1261.6	1237.2	1231.1	1237.2	1243.3	1246.4	1243.3	1255.6	1270.8	1273.9
25°	1276.9	1270.8	1249.4	1246.4	1258.5	1267.7	1267.7	1261.6	1267.7	1283.0	1283.0
27.5°	1292.2	1289.1	1264.7	1264.7	1279.9	1298.3	1289.1	1276.9	1283.0	1298.3	1298.3
30°	1319.7	1316.6	1292.2	1292.2	1313.6	1335.0	1313.6	1298.3	1307.4	1322.8	1325.7
32.5°	1359.4	1359.4	1338.0	1331.9	1368.5	1377.7	1368.5	1338.0	1344.2	1365.5	1365.5
35°	1426.6	1420.5	1399.1	1396.0	1432.7	1429.7	1426.6	1399.1	1405.2	1429.7	1429.7
37.5°	1515.2	1512.1	1493.8	1484.6	1502.9	1490.7	1496.9	1484.6	1500.0	1518.3	1521.3
40°	1628.2	1625.2	1609.9	1597.6	1603.8	1585.5	1591.5	1597.6	1613.0	1625.2	1628.2
42.5°	1768.8	1768.8	1753.4	1732.1	1723.0	1713.7	1713.7	1725.9	1741.3	1756.5	1756.5
45°	1942.9	1942.9	1924.6	1903.1	1875.7	1860.3	1866.5	1878.8	1897.1	1915.4	1921.5
47.5°	2147.5	2147.5	2123.1	2101.8	2074.2	2055.9	2055.9	2062.0	2089.5	2104.7	2113.9
50°	2376.6	2367.5	2343.1	2321.7	2306.3	2281.9	2285.0	2281.9	2306.3	2327.7	2333.9
52.5°	2614.9	2611.9	2587.5	2581.3	2590.5	2578.2	2578.2	2547.8	2556.9	2569.1	2566.1
55°	2911.2	2902.1	2880.7	2892.9	2929.5	2947.9	2941.8	2892.9	2865.4	2871.5	2868.5
57.5°	3235.1	3225.9	3219.7	3256.5	3338.9	3415.3	3400.0	3286.9	3235.1	3238.0	3241.1
60°	3565.0	3565.0	3583.3	3675.0	3852.1	3977.3	3931.5	3742.2	3650.5	3632.2	3626.1
62.5°	3904.1	3913.2	3952.9	4105.6	4377.5	4585.3	4469.2	4200.3	4062.9	4026.2	4014.1
65°	4298.1	4307.2	4365.3	4554.7	4915.2	5162.6	4964.1	4710.5	4518.1	4441.7	4429.5
67.5°	4869.3	4875.5	4921.3	5104.6	5443.6	5642.2	5437.6	5211.5	5003.8	4915.2	4909.0
70°	5382.6	5388.7	5428.4	5669.7	5981.3	6051.6	5825.5	5538.4	5321.5	5251.2	5239.0
72.5°	5266.5	5287.8	5419.2	5795.0	6274.6	6366.2	5889.6	5459.0	5110.7	4994.7	4957.9
75°	4417.2	4450.9	4658.6	5223.7	5987.4	6247.1	5510.8	4719.7	4200.3	3977.3	3919.3
77.5°	2578.2	2703.6	3060.9	3784.9	4875.5	5403.9	4539.4	3455.0	2581.3	2214.7	2092.5
80°	705.6	772.8	1032.6	1741.3	3057.9	3784.9	2896.0	1585.5	855.4	641.5	595.7
82.5°	223.0	296.3	375.7	500.9	1200.5	1994.8	1075.3	467.4	366.6	302.4	268.8
85°	119.2	128.3	210.8	244.4	360.5	559.0	333.0	244.4	219.9	161.9	152.7
87.5°	61.1	64.1	119.2	119.2	158.9	131.3	143.6	131.3	125.2	79.4	70.3
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)