

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: P230967

Luminaire Tested: **ARCH-M-AF48-130-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230967
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-AF48-130-D-U-5WQ
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 845mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16954.4 lumens
Efficiency: N/A
Efficacy: 129.4 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

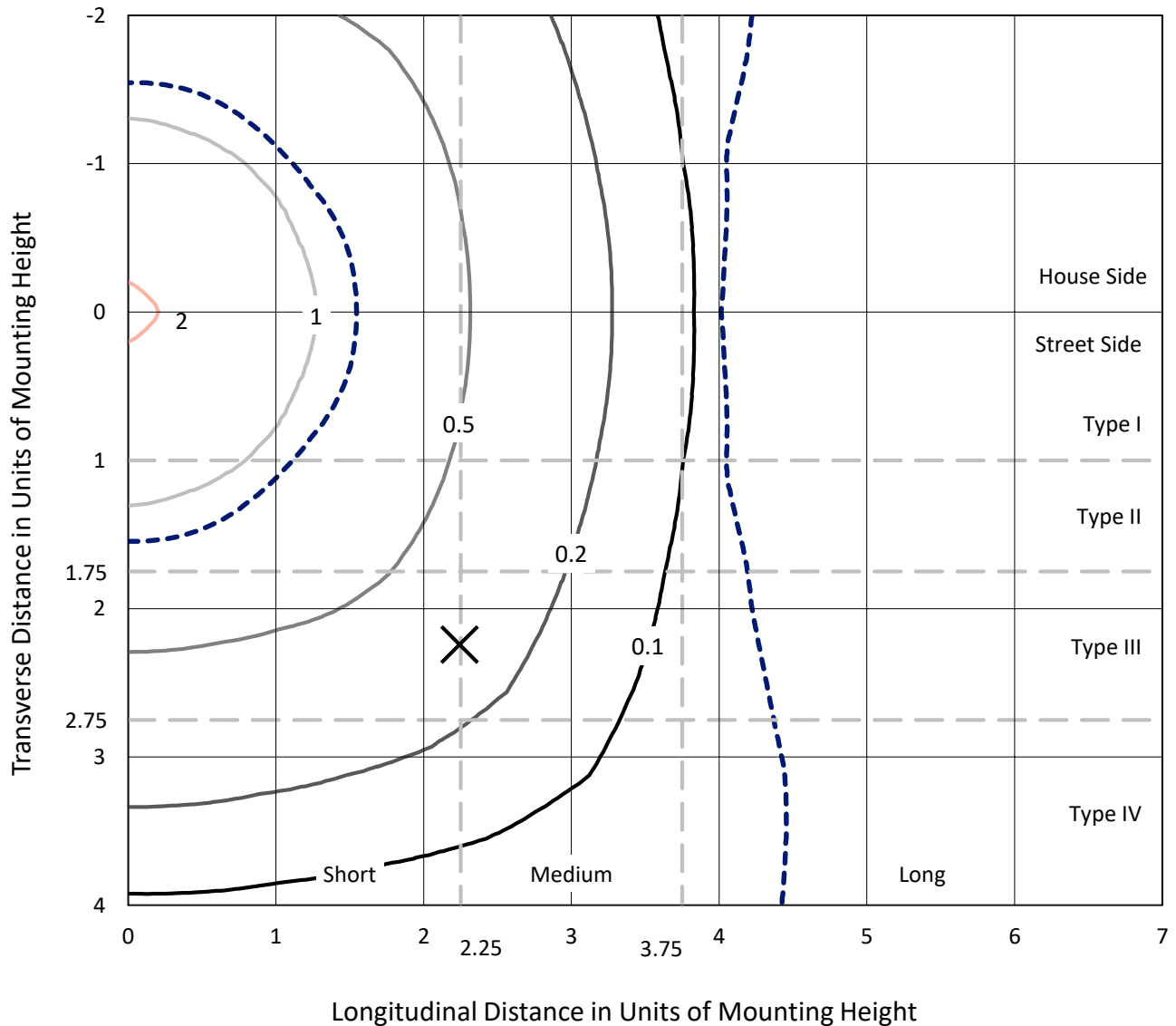
Input Watts (W): 131
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

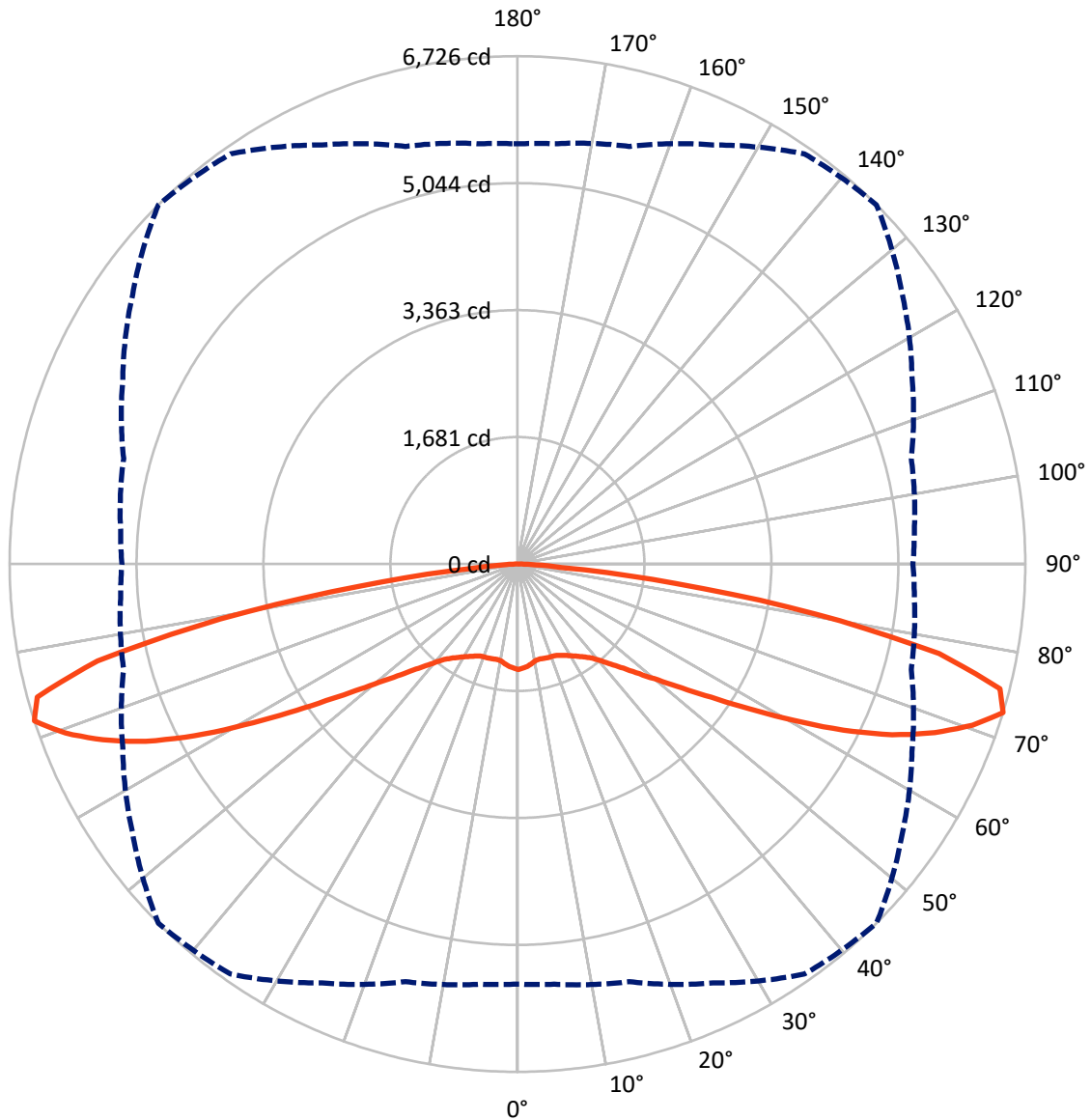
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	8477.2	0.0	8477.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8477.2	0.0	8477.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	16954.4	0.0	16954.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	0.8
10°-20°	371.0	2.2
20°-30°	620.8	3.7
30°-40°	953.9	5.6
40°-50°	1579.5	9.3
50°-60°	2808.0	16.6
60°-70°	4912.5	29.0
70°-80°	4998.1	29.5
80°-90°	582.0	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°	16954.4	100.0
0°-180°	16954.4	100.0



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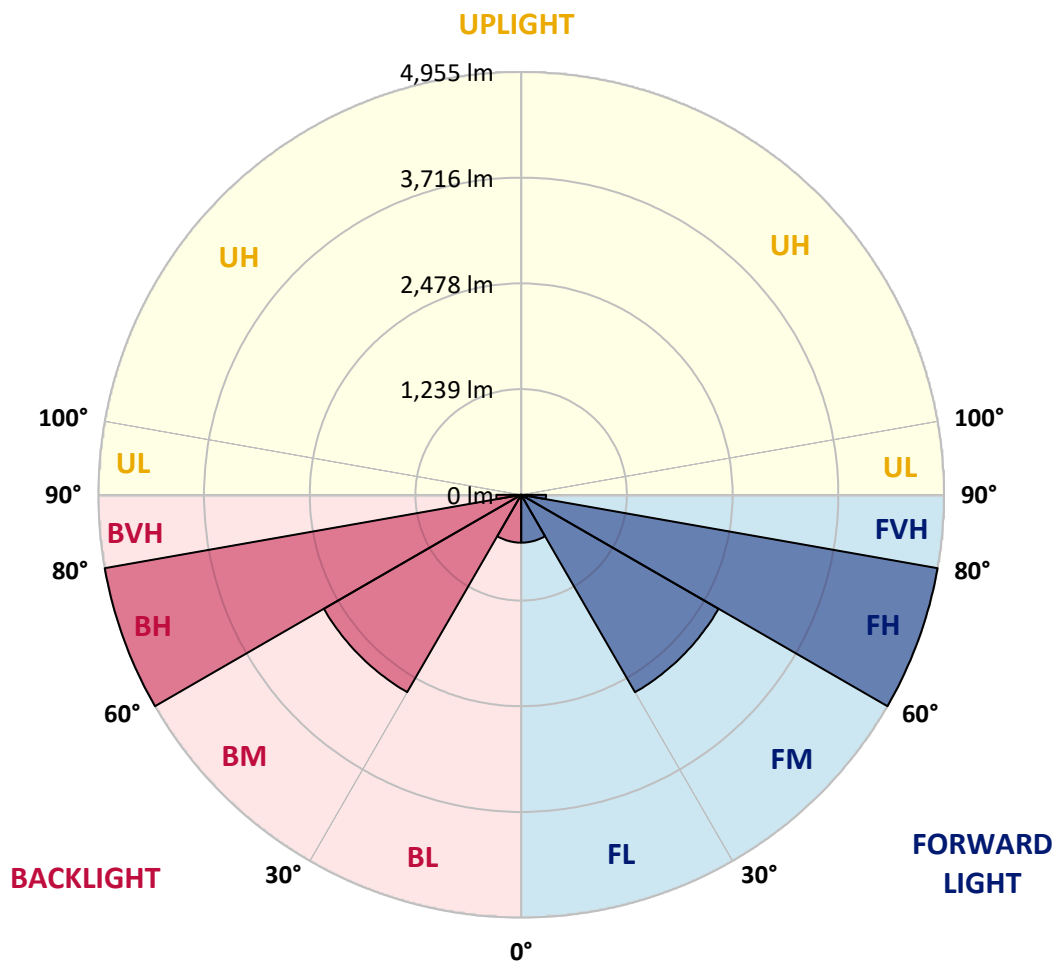
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.2	3.3			
FM	(30°-60°)	2670.7	15.8			
FH	(60°-80°)	4955.3	29.2			G2/5000
FVH	(80°-90°)	291.0	1.7			G3/500
BL	(0°-30°)	560.2	3.3	B2/1000		
BM	(30°-60°)	2670.7	15.8	B3/5000		
BH	(60°-80°)	4955.3	29.2	B4/5000		G2/5000
BVH	(80°-90°)	291.0	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°	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5
2.5°	1384.6	1387.7	1381.3	1381.3	1381.3	1378.1	1381.3	1378.1	1381.3	1384.6	1384.6
5°	1371.6	1371.6	1365.1	1365.1	1365.1	1362.0	1365.1	1365.1	1368.4	1371.6	1371.6
7.5°	1342.5	1342.5	1339.3	1336.1	1332.9	1332.9	1336.1	1336.1	1339.3	1342.5	1342.5
10°	1326.5	1323.2	1316.7	1307.0	1303.9	1300.6	1307.0	1313.6	1323.2	1332.9	1329.6
12.5°	1320.0	1316.7	1303.9	1294.1	1287.7	1291.0	1297.4	1303.9	1320.0	1329.6	1326.5
15°	1326.5	1320.0	1303.9	1287.7	1291.0	1297.4	1303.9	1303.9	1323.2	1332.9	1332.9
17.5°	1326.5	1323.2	1303.9	1291.0	1294.1	1303.9	1307.0	1303.9	1320.0	1336.1	1336.1
20°	1329.6	1329.6	1303.9	1294.1	1297.4	1307.0	1310.3	1307.0	1320.0	1339.3	1339.3
22.5°	1336.1	1332.9	1307.0	1300.6	1307.0	1313.6	1316.7	1313.6	1326.5	1342.5	1345.8
25°	1349.1	1342.5	1320.0	1316.7	1329.6	1339.3	1339.3	1332.9	1339.3	1355.5	1355.5
27.5°	1365.1	1362.0	1336.1	1336.1	1352.2	1371.6	1362.0	1349.1	1355.5	1371.6	1371.6
30°	1394.2	1391.0	1365.1	1365.1	1387.7	1410.3	1387.7	1371.6	1381.3	1397.5	1400.6
32.5°	1436.1	1436.1	1413.6	1407.1	1445.8	1455.6	1445.8	1413.6	1420.1	1442.7	1442.7
35°	1507.2	1500.7	1478.2	1474.9	1513.7	1510.4	1507.2	1478.2	1484.6	1510.4	1510.4
37.5°	1600.7	1597.5	1578.2	1568.5	1587.8	1574.9	1581.4	1568.5	1584.7	1604.0	1607.3
40°	1720.2	1716.9	1700.8	1687.9	1694.3	1675.0	1681.4	1687.9	1704.0	1716.9	1720.2
42.5°	1868.6	1868.6	1852.5	1829.9	1820.2	1810.5	1810.5	1823.4	1839.6	1855.7	1855.7
45°	2052.6	2052.6	2033.2	2010.6	1981.6	1965.4	1971.9	1984.8	2004.2	2023.5	2029.9
47.5°	2268.8	2268.8	2243.0	2220.4	2191.4	2172.0	2172.0	2178.5	2207.5	2223.6	2233.3
50°	2510.8	2501.2	2475.3	2452.7	2436.7	2410.8	2414.1	2410.8	2436.7	2459.3	2465.7
52.5°	2762.6	2759.4	2733.5	2727.1	2736.8	2723.9	2723.9	2691.6	2701.3	2714.2	2710.9
55°	3075.6	3066.0	3043.4	3056.3	3095.0	3114.4	3107.9	3056.3	3027.2	3033.7	3030.5
57.5°	3417.8	3408.1	3401.6	3440.4	3527.4	3608.2	3592.0	3472.6	3417.8	3421.0	3424.2
60°	3766.3	3766.3	3785.6	3882.5	4069.7	4202.0	4153.6	3953.5	3856.6	3837.3	3830.8
62.5°	4124.5	4134.3	4176.2	4337.5	4624.8	4844.2	4721.6	4437.6	4292.4	4253.6	4240.7
65°	4540.9	4550.5	4611.9	4812.0	5192.8	5454.2	5244.5	4976.6	4773.2	4692.6	4679.6
67.5°	5144.4	5150.9	5199.2	5392.9	5751.1	5960.8	5744.7	5505.8	5286.4	5192.8	5186.4
70°	5686.6	5693.0	5735.0	5989.9	6319.1	6393.3	6154.5	5851.2	5622.0	5547.8	5534.9
72.5°	5563.9	5586.5	5725.3	6122.3	6628.9	6725.8	6222.3	5767.3	5399.3	5276.7	5237.9
75°	4666.7	4702.2	4921.7	5518.7	6325.6	6599.9	5822.1	4986.3	4437.6	4202.0	4140.7
77.5°	2723.9	2856.2	3233.8	3998.7	5150.9	5709.2	4795.8	3650.1	2727.1	2339.8	2210.7
80°	745.5	816.5	1090.9	1839.6	3230.6	3998.7	3059.5	1675.0	903.7	677.7	629.3
82.5°	235.6	313.0	397.0	529.3	1268.4	2107.5	1136.0	493.8	387.3	319.5	284.0
85°	125.8	135.5	222.7	258.2	380.8	590.7	351.8	258.2	232.4	171.0	161.3
87.5°	64.5	67.8	125.8	125.8	167.9	138.8	151.7	138.8	132.4	83.9	74.3
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)