

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: P265850

Luminaire Tested: **ARCH-M-AF48-150-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265850
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-AF48-150-D-U-5WQ-7027
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15900 lumens
Efficiency: N/A
Efficacy: 105.3 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): 151
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

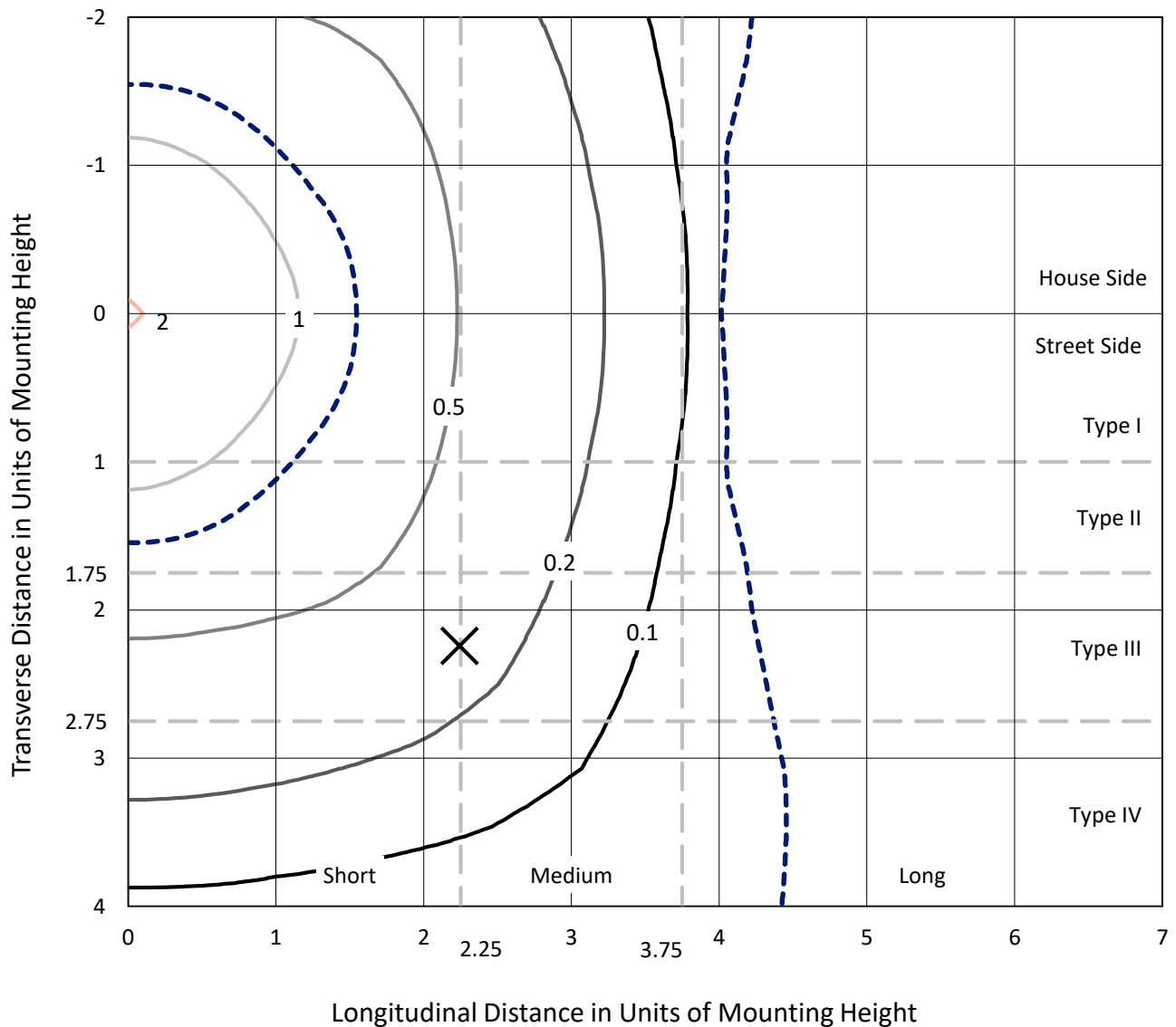


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

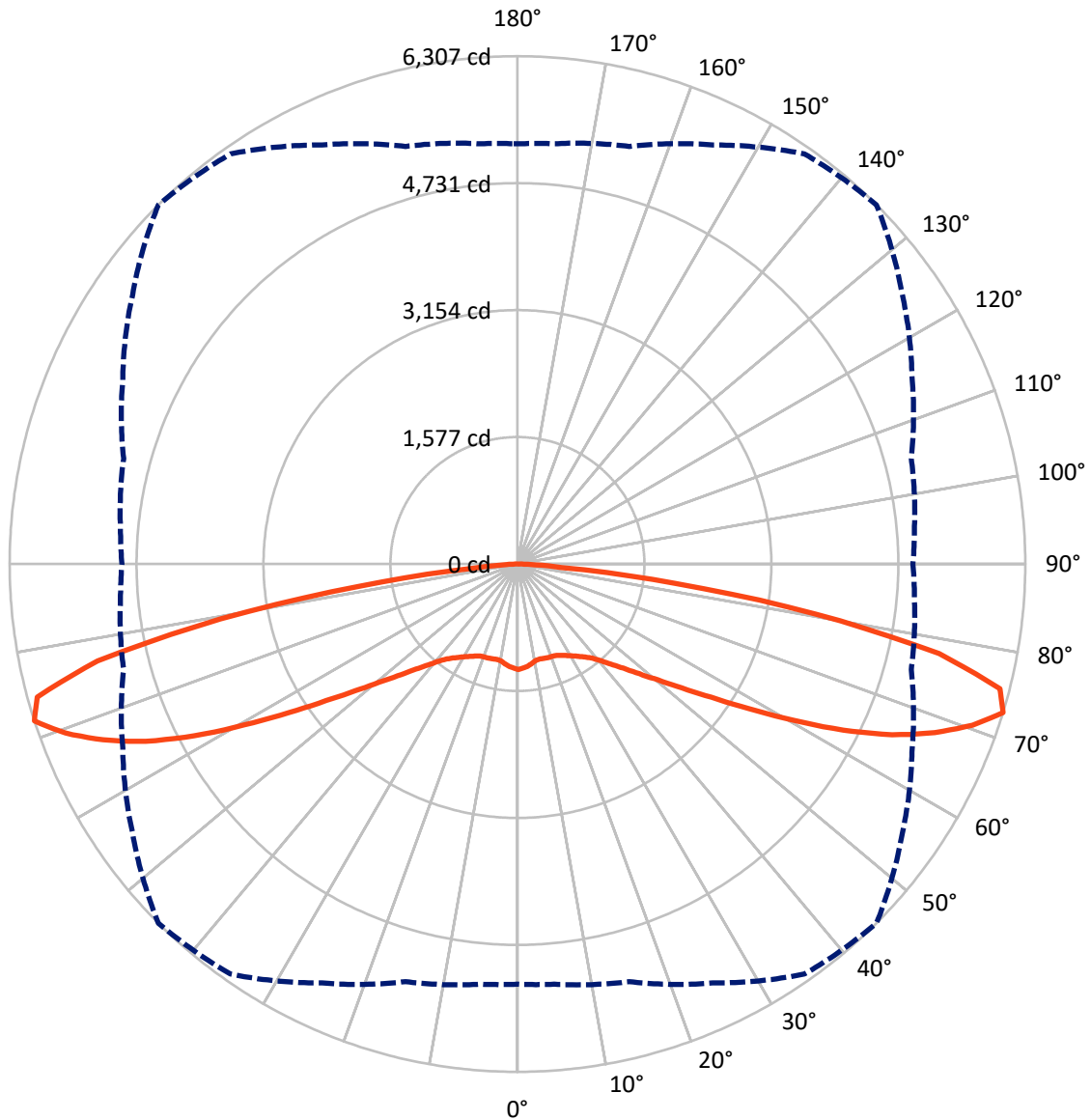


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Non-Cutoff

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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	7950.0	0.0	7950.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7950.0	0.0	7950.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15900.0	0.0	15900.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	0.8
10°-20°	347.9	2.2
20°-30°	582.2	3.7
30°-40°	894.6	5.6
40°-50°	1481.2	9.3
50°-60°	2633.4	16.6
60°-70°	4607.0	29.0
70°-80°	4687.2	29.5
80°-90°	545.8	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°	15900.0	100.0
0°-180°	15900.0	100.0



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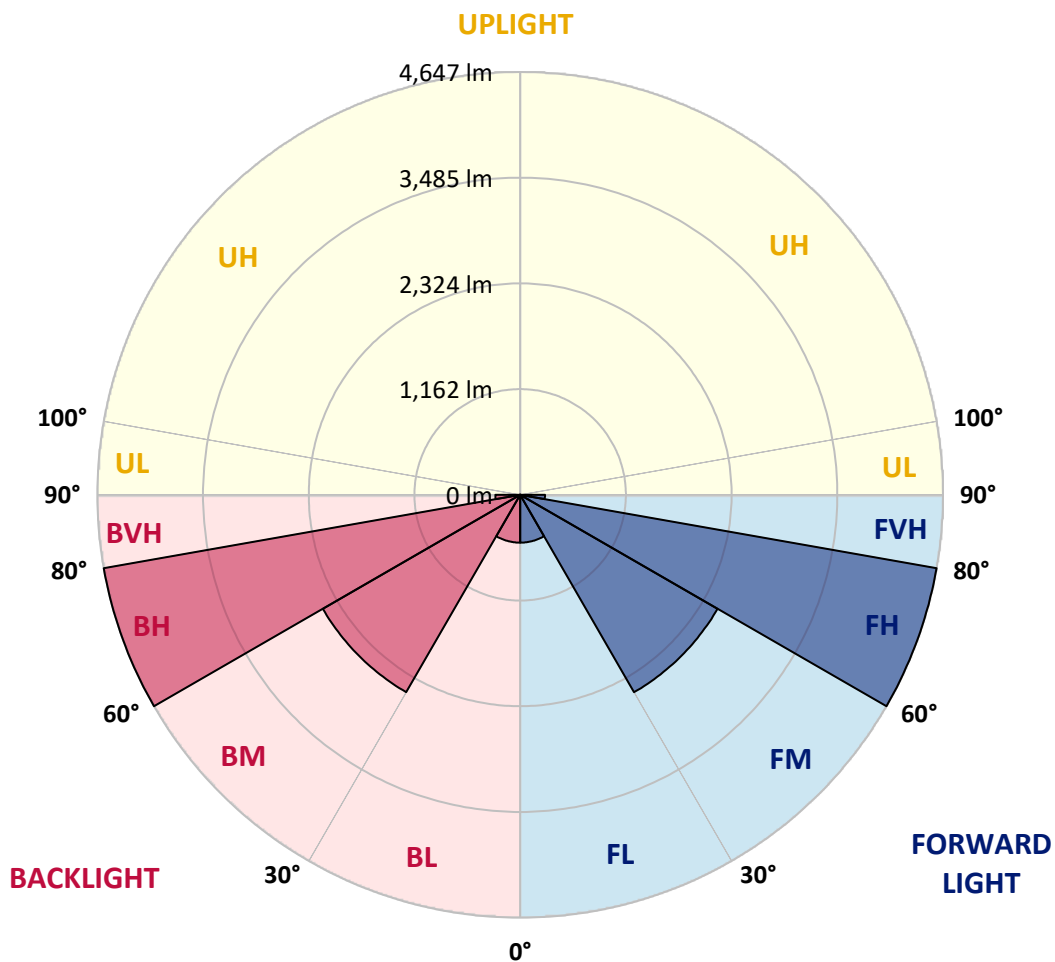
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	525.4	3.3			
FM (30°-60°)	2504.6	15.8			
FH (60°-80°)	4647.1	29.2			G2/5000
FVH (80°-90°)	272.9	1.7			G3/500
BL (0°-30°)	525.4	3.3	B2/1000		
BM (30°-60°)	2504.6	15.8	B3/5000		
BH (60°-80°)	4647.1	29.2	B4/5000		G2/5000
BVH (80°-90°)	272.9	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°	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5
2.5°	1298.4	1301.5	1295.4	1295.4	1295.4	1292.4	1295.4	1292.4	1295.4	1298.4	1298.4
5°	1286.4	1286.4	1280.3	1280.3	1280.3	1277.2	1280.3	1280.3	1283.3	1286.4	1286.4
7.5°	1259.1	1259.1	1256.0	1253.0	1250.0	1250.0	1253.0	1253.0	1256.0	1259.1	1259.1
10°	1244.0	1240.9	1234.9	1225.7	1222.8	1219.7	1225.7	1231.8	1240.9	1250.0	1246.9
12.5°	1237.9	1234.9	1222.8	1213.7	1207.6	1210.6	1216.8	1222.8	1237.9	1246.9	1244.0
15°	1244.0	1237.9	1222.8	1207.6	1210.6	1216.8	1222.8	1222.8	1240.9	1250.0	1250.0
17.5°	1244.0	1240.9	1222.8	1210.6	1213.7	1222.8	1225.7	1222.8	1237.9	1253.0	1253.0
20°	1246.9	1246.9	1222.8	1213.7	1216.8	1225.7	1228.8	1225.7	1237.9	1256.0	1256.0
22.5°	1253.0	1250.0	1225.7	1219.7	1225.7	1231.8	1234.9	1231.8	1244.0	1259.1	1262.1
25°	1265.2	1259.1	1237.9	1234.9	1246.9	1256.0	1256.0	1250.0	1256.0	1271.2	1271.2
27.5°	1280.3	1277.2	1253.0	1253.0	1268.1	1286.4	1277.2	1265.2	1271.2	1286.4	1286.4
30°	1307.6	1304.5	1280.3	1280.3	1301.5	1322.7	1301.5	1286.4	1295.4	1310.5	1313.5
32.5°	1346.9	1346.9	1325.7	1319.6	1355.9	1365.1	1355.9	1325.7	1331.6	1352.8	1352.8
35°	1413.5	1407.4	1386.2	1383.2	1419.5	1416.4	1413.5	1386.2	1392.3	1416.4	1416.4
37.5°	1501.2	1498.2	1480.0	1471.0	1489.1	1477.1	1483.0	1471.0	1486.1	1504.2	1507.3
40°	1613.1	1610.1	1595.0	1583.0	1589.0	1570.9	1576.9	1583.0	1598.1	1610.1	1613.1
42.5°	1752.5	1752.5	1737.3	1716.1	1707.0	1697.9	1697.9	1710.1	1725.1	1740.2	1740.2
45°	1925.0	1925.0	1906.8	1885.6	1858.4	1843.2	1849.3	1861.4	1879.6	1897.7	1903.8
47.5°	2127.7	2127.7	2103.6	2082.4	2055.1	2036.9	2036.9	2042.9	2070.2	2085.3	2094.4
50°	2354.6	2345.7	2321.4	2300.2	2285.1	2260.9	2263.9	2260.9	2285.1	2306.3	2312.3
52.5°	2590.8	2587.7	2563.6	2557.6	2566.5	2554.5	2554.5	2524.1	2533.3	2545.3	2542.4
55°	2884.4	2875.2	2854.2	2866.2	2902.6	2920.7	2914.6	2866.2	2839.0	2845.0	2842.0
57.5°	3205.2	3196.1	3190.2	3226.4	3308.1	3383.7	3368.6	3256.6	3205.2	3208.2	3211.3
60°	3532.0	3532.0	3550.2	3641.0	3816.5	3940.7	3895.3	3707.7	3616.8	3598.7	3592.6
62.5°	3868.0	3877.2	3916.5	4067.7	4337.1	4543.0	4427.9	4161.6	4025.5	3989.2	3976.9
65°	4258.4	4267.6	4325.1	4512.6	4869.8	5114.9	4918.3	4667.1	4476.3	4400.6	4388.6
67.5°	4824.4	4830.5	4875.9	5057.5	5393.5	5590.2	5387.3	5163.4	4957.7	4869.8	4863.9
70°	5332.9	5338.9	5378.3	5617.5	5926.1	5995.7	5771.8	5487.2	5272.4	5202.8	5190.6
72.5°	5218.0	5239.1	5369.2	5741.4	6216.7	6307.4	5835.3	5408.5	5063.6	4948.6	4912.2
75°	4376.5	4409.8	4615.6	5175.6	5932.1	6189.4	5460.1	4676.1	4161.6	3940.7	3883.2
77.5°	2554.5	2678.6	3032.7	3750.0	4830.5	5354.1	4497.5	3423.1	2557.6	2194.3	2073.3
80°	699.2	765.7	1023.0	1725.1	3029.7	3750.0	2869.2	1570.9	847.5	635.6	590.1
82.5°	221.0	293.6	372.3	496.4	1189.4	1976.5	1065.4	463.0	363.2	299.7	266.3
85°	118.0	127.1	208.9	242.2	357.2	553.9	329.9	242.2	217.8	160.3	151.4
87.5°	60.5	63.6	118.0	118.0	157.5	130.2	142.2	130.2	124.1	78.7	69.6
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)