

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: P265814

Luminaire Tested: **ARCH-M-AF48-110-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265814
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-AF48-110-D-U-5WQ-7027
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12701.4 lumens
Efficiency: N/A
Efficacy: 114.4 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 - G2

Input Watts (W): 111
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

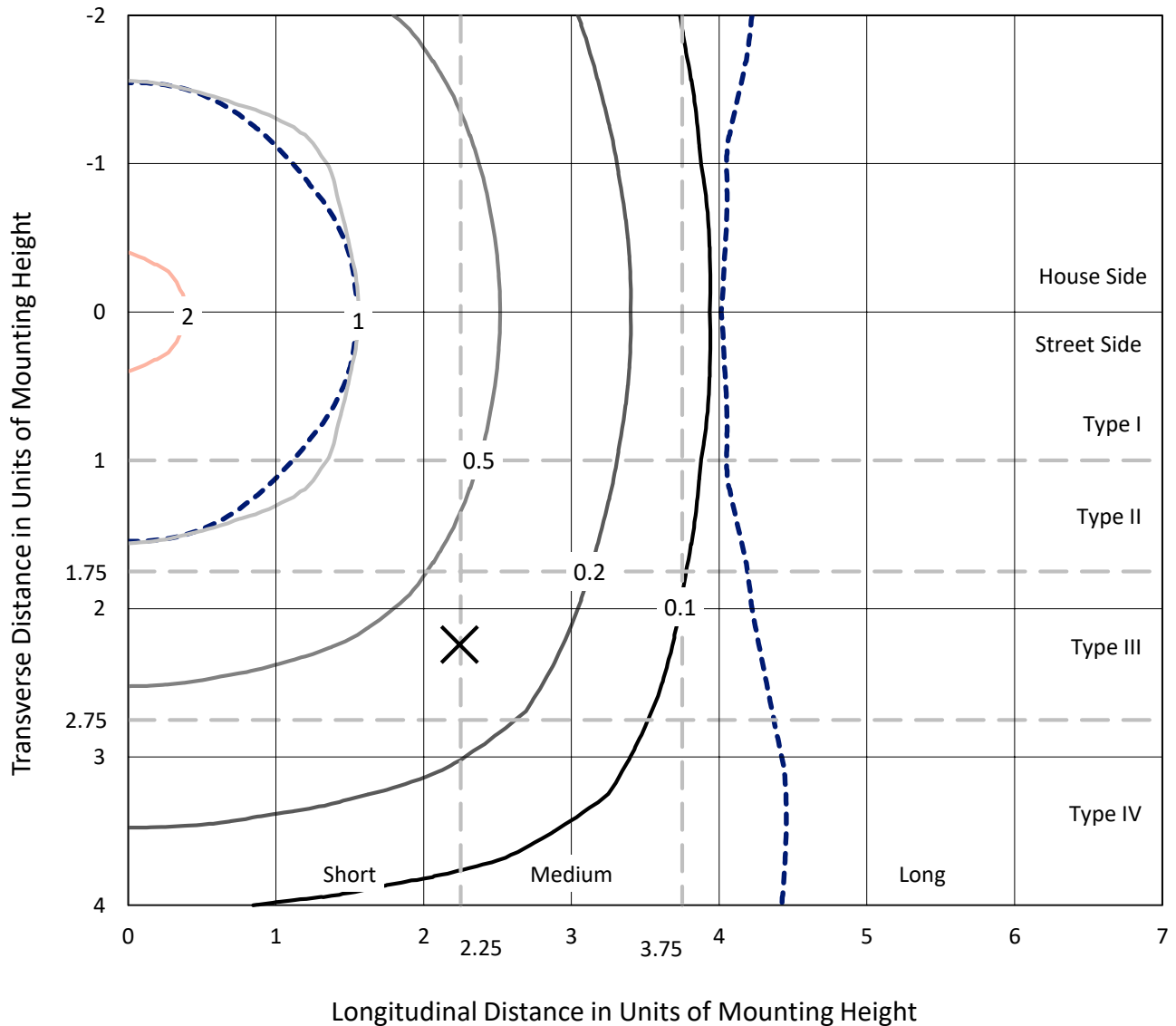


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

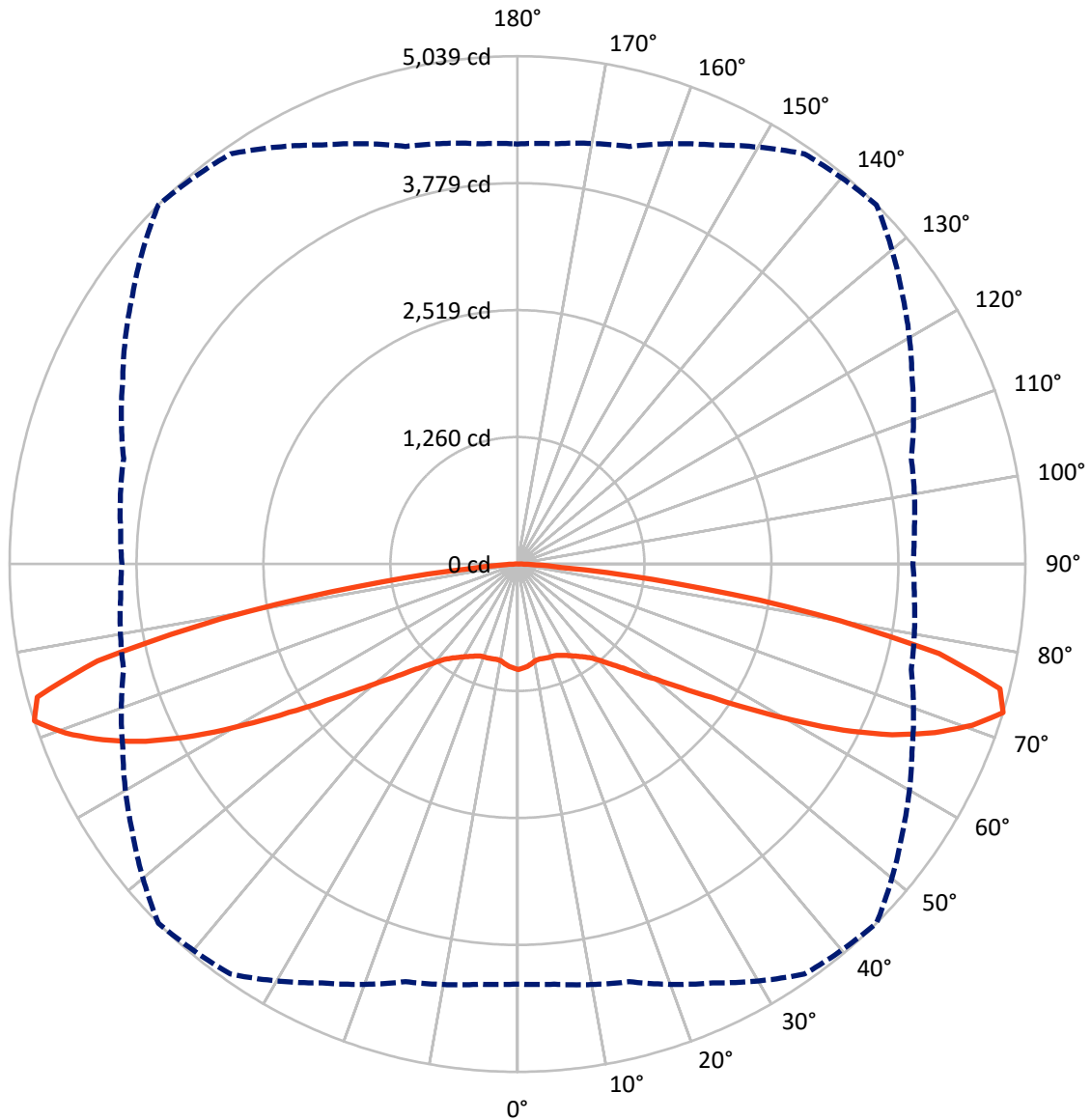


Based on 20 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Non-Cutoff

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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	6350.7	0.0	6350.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6350.7	0.0	6350.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	12701.4	0.0	12701.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	0.8
10°-20°	277.9	2.2
20°-30°	465.1	3.7
30°-40°	714.6	5.6
40°-50°	1183.3	9.3
50°-60°	2103.6	16.6
60°-70°	3680.2	29.0
70°-80°	3744.3	29.5
80°-90°	436.0	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°	12701.4	100.0
0°-180°	12701.4	100.0



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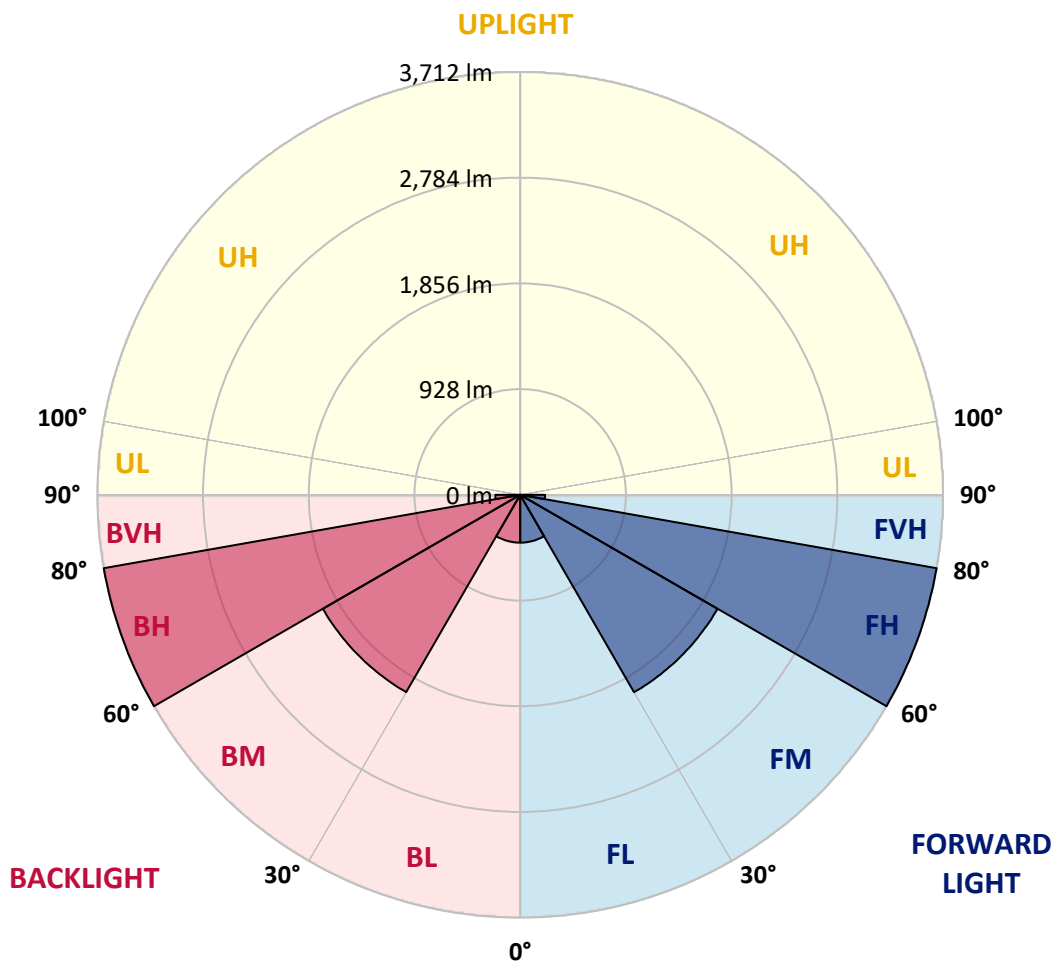
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.7	3.3			
FM (30°-60°)	2000.7	15.8			
FH (60°-80°)	3712.3	29.2			G2/5000
FVH (80°-90°)	218.0	1.7			G2/225
BL (0°-30°)	419.7	3.3	B1/500		
BM (30°-60°)	2000.7	15.8	B2/2500		
BH (60°-80°)	3712.3	29.2	B4/5000		G2/5000
BVH (80°-90°)	218.0	1.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9	1046.9
2.5°	1037.3	1039.6	1034.8	1034.8	1034.8	1032.4	1034.8	1032.4	1034.8	1037.3	1037.3
5°	1027.5	1027.5	1022.7	1022.7	1022.7	1020.3	1022.7	1022.7	1025.1	1027.5	1027.5
7.5°	1005.8	1005.8	1003.3	1000.9	998.6	998.6	1000.9	1000.9	1003.3	1005.8	1005.8
10°	993.6	991.3	986.5	979.2	976.7	974.3	979.2	984.1	991.3	998.6	996.1
12.5°	988.9	986.5	976.7	969.5	964.7	967.0	972.0	976.7	988.9	996.1	993.6
15°	993.6	988.9	976.7	964.7	967.0	972.0	976.7	976.7	991.3	998.6	998.6
17.5°	993.6	991.3	976.7	967.0	969.5	976.7	979.2	976.7	988.9	1000.9	1000.9
20°	996.1	996.1	976.7	969.5	972.0	979.2	981.6	979.2	988.9	1003.3	1003.3
22.5°	1000.9	998.6	979.2	974.3	979.2	984.1	986.5	984.1	993.6	1005.8	1008.2
25°	1010.7	1005.8	988.9	986.5	996.1	1003.3	1003.3	998.6	1003.3	1015.4	1015.4
27.5°	1022.7	1020.3	1000.9	1000.9	1013.1	1027.5	1020.3	1010.7	1015.4	1027.5	1027.5
30°	1044.5	1042.0	1022.7	1022.7	1039.6	1056.5	1039.6	1027.5	1034.8	1046.9	1049.3
32.5°	1075.9	1075.9	1059.0	1054.2	1083.1	1090.5	1083.1	1059.0	1063.9	1080.8	1080.8
35°	1129.1	1124.3	1107.3	1104.9	1133.9	1131.5	1129.1	1107.3	1112.2	1131.5	1131.5
37.5°	1199.1	1196.8	1182.3	1175.1	1189.5	1179.8	1184.8	1175.1	1187.1	1201.7	1204.1
40°	1288.7	1286.3	1274.2	1264.5	1269.3	1254.8	1259.7	1264.5	1276.6	1286.3	1288.7
42.5°	1399.9	1399.9	1387.8	1370.9	1363.5	1356.4	1356.4	1366.1	1378.1	1390.1	1390.1
45°	1537.7	1537.7	1523.2	1506.3	1484.4	1472.4	1477.3	1487.0	1501.4	1515.9	1520.8
47.5°	1699.7	1699.7	1680.3	1663.4	1641.7	1627.1	1627.1	1632.0	1653.7	1665.8	1673.2
50°	1881.1	1873.8	1854.5	1837.6	1825.4	1806.0	1808.5	1806.0	1825.4	1842.3	1847.2
52.5°	2069.5	2067.2	2047.9	2042.9	2050.2	2040.6	2040.6	2016.4	2023.6	2033.4	2030.9
55°	2304.2	2296.8	2280.0	2289.6	2318.6	2333.2	2328.2	2289.6	2267.9	2272.7	2270.2
57.5°	2560.3	2553.2	2548.3	2577.3	2642.6	2703.0	2691.0	2601.5	2560.3	2562.9	2565.2
60°	2821.5	2821.5	2835.9	2908.5	3048.8	3147.9	3111.6	2961.7	2889.2	2874.7	2869.8
62.5°	3089.9	3097.1	3128.5	3249.4	3464.7	3629.1	3537.2	3324.4	3215.7	3186.6	3176.9
65°	3401.8	3409.1	3455.1	3604.9	3890.2	4086.0	3928.8	3728.1	3575.9	3515.3	3505.7
67.5°	3853.9	3858.7	3895.1	4040.0	4308.5	4465.6	4303.6	4124.7	3960.3	3890.2	3885.3
70°	4260.1	4265.0	4296.4	4487.4	4734.0	4789.6	4610.6	4383.4	4211.8	4156.1	4146.4
72.5°	4168.1	4185.2	4289.0	4586.4	4966.1	5038.7	4661.5	4320.5	4044.9	3953.0	3923.9
75°	3496.1	3522.7	3687.1	4134.4	4738.7	4944.4	4361.6	3735.4	3324.4	3147.9	3101.9
77.5°	2040.6	2139.8	2422.5	2995.6	3858.7	4277.0	3592.9	2734.5	2042.9	1752.9	1656.1
80°	558.4	611.7	817.2	1378.1	2420.2	2995.6	2292.0	1254.8	677.0	507.7	471.5
82.5°	176.4	234.5	297.3	396.5	950.1	1578.9	851.1	369.9	290.2	239.4	212.8
85°	94.3	101.6	166.8	193.4	285.3	442.4	263.6	193.4	174.1	128.2	120.9
87.5°	48.4	50.8	94.3	94.3	125.8	103.9	113.6	103.9	99.2	62.8	55.7
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)