

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: P230956

Luminaire Tested: **ARCH-M-AF48-150-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230956
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-7030
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 16200 lumens
Efficiency: N/A
Efficacy: 107.3 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

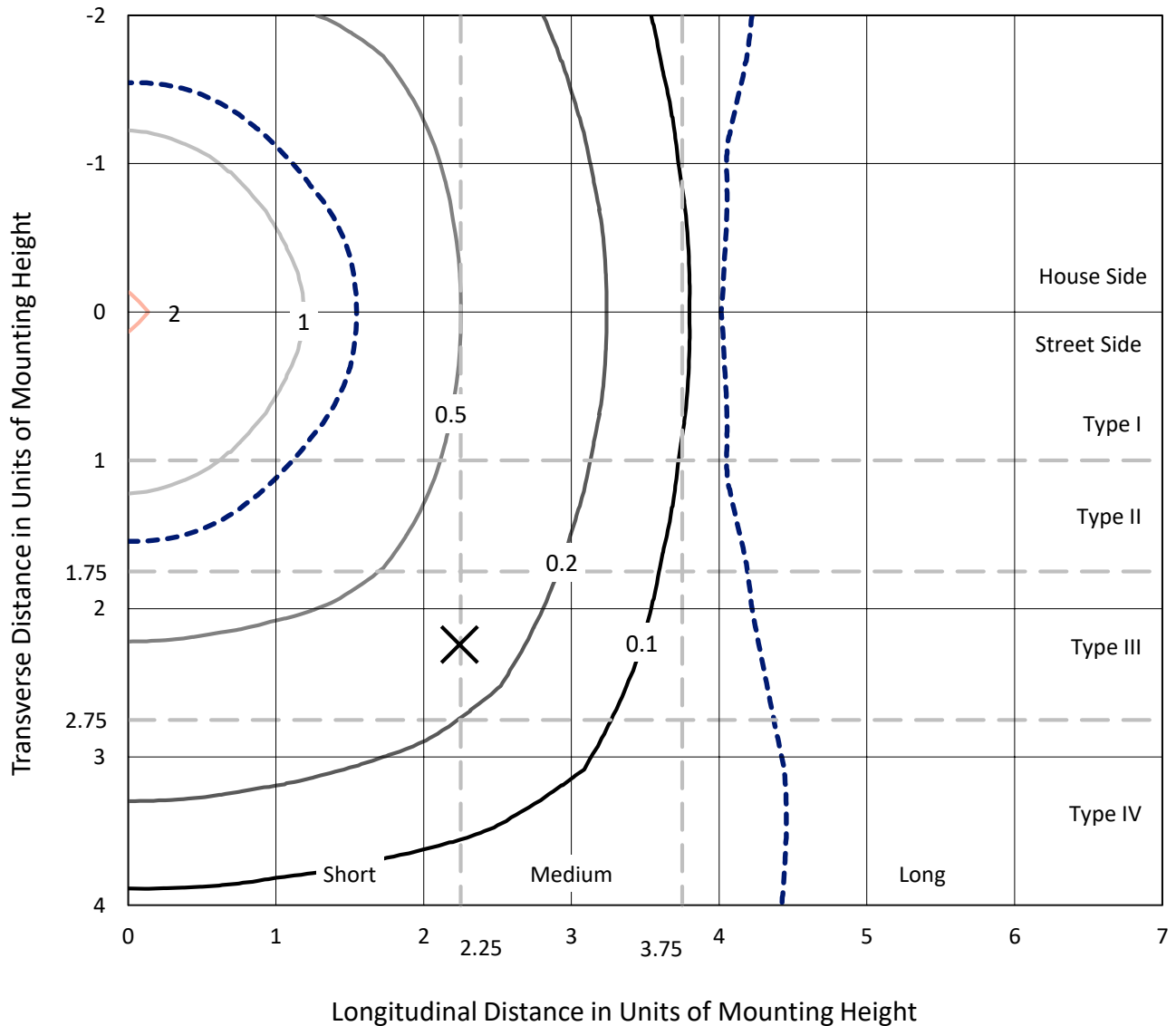


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

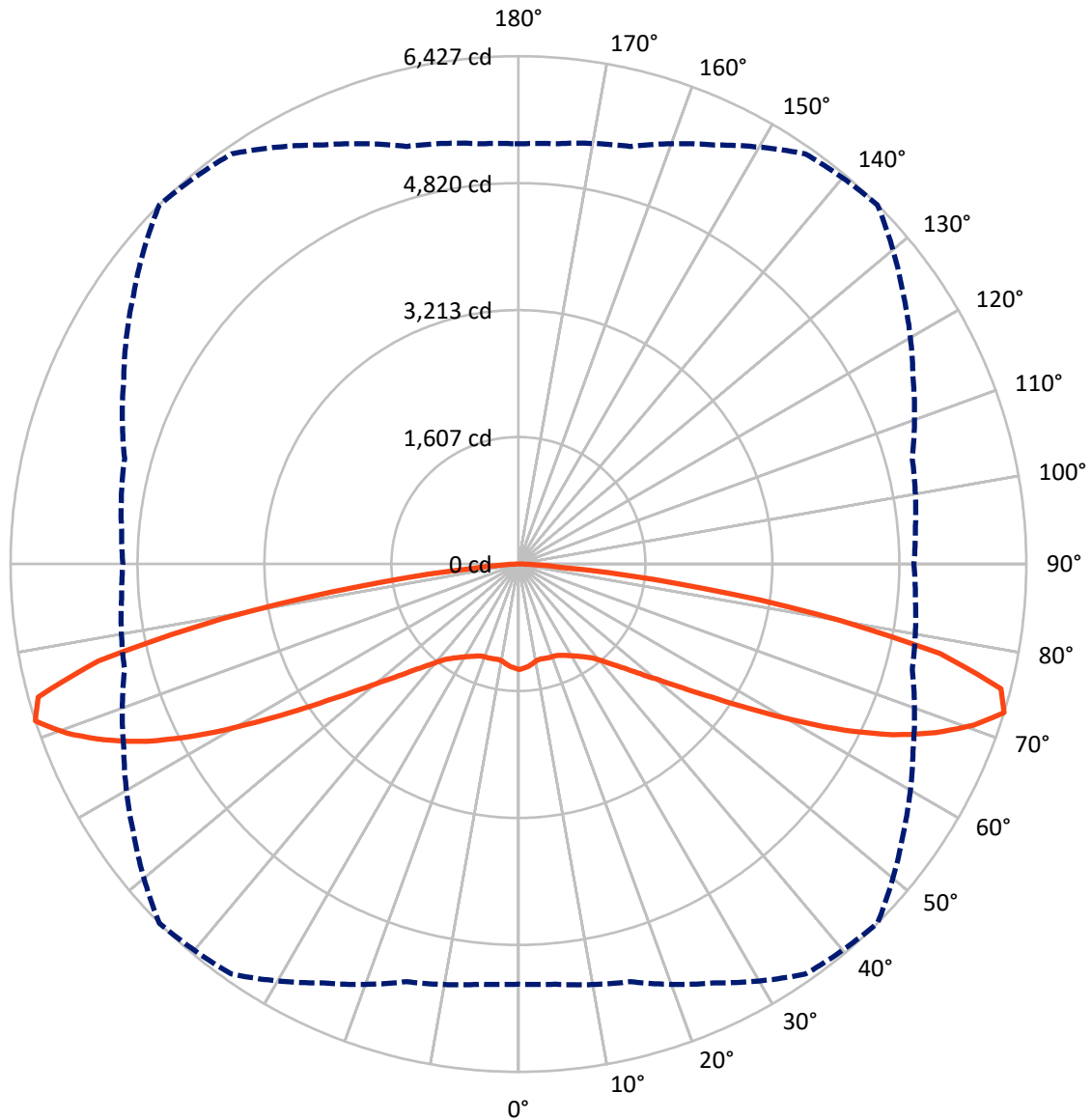


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Non-Cutoff

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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	8100.0	0.0	8100.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8100.0	0.0	8100.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16200.0	0.0	16200.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	0.8
10°-20°	354.5	2.2
20°-30°	593.2	3.7
30°-40°	911.5	5.6
40°-50°	1509.2	9.3
50°-60°	2683.0	16.6
60°-70°	4693.9	29.0
70°-80°	4775.7	29.5
80°-90°	556.1	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°	16200.0	100.0
0°-180°	16200.0	100.0



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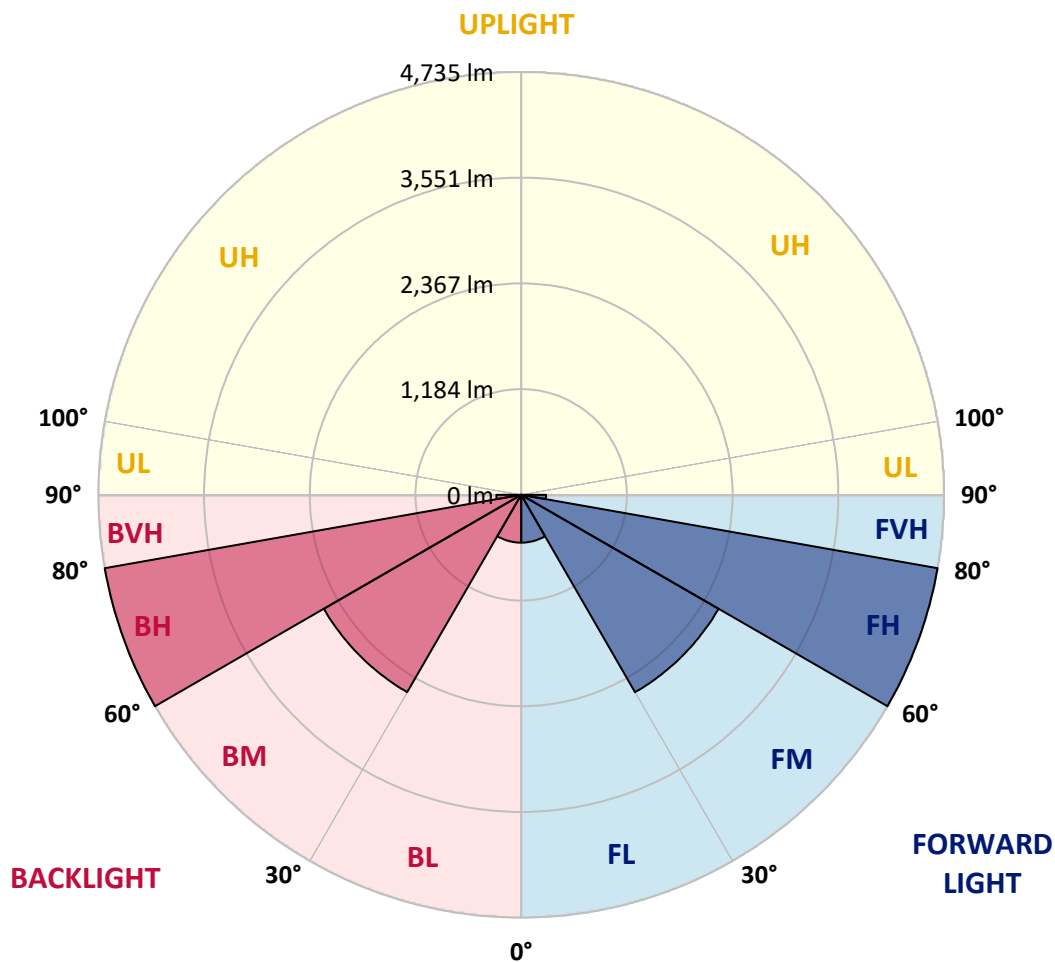
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	535.3	3.3			
FM (30°-60°)	2551.9	15.8			
FH (60°-80°)	4734.8	29.2			G2/5000
FVH (80°-90°)	278.0	1.7			G3/500
BL (0°-30°)	535.3	3.3	B2/1000		
BM (30°-60°)	2551.9	15.8	B3/5000		
BH (60°-80°)	4734.8	29.2	B4/5000		G2/5000
BVH (80°-90°)	278.0	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°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1322.9	1326.0	1319.8	1319.8	1319.8	1316.8	1319.8	1316.8	1319.8	1322.9	1322.9
5°	1310.6	1310.6	1304.4	1304.4	1304.4	1301.3	1304.4	1304.4	1307.5	1310.6	1310.6
7.5°	1282.8	1282.8	1279.7	1276.7	1273.6	1273.6	1276.7	1276.7	1279.7	1282.8	1282.8
10°	1267.4	1264.3	1258.2	1248.9	1245.8	1242.7	1248.9	1255.1	1264.3	1273.6	1270.5
12.5°	1261.2	1258.2	1245.8	1236.6	1230.4	1233.5	1239.7	1245.8	1261.2	1270.5	1267.4
15°	1267.4	1261.2	1245.8	1230.4	1233.5	1239.7	1245.8	1245.8	1264.3	1273.6	1273.6
17.5°	1267.4	1264.3	1245.8	1233.5	1236.6	1245.8	1248.9	1245.8	1261.2	1276.7	1276.7
20°	1270.5	1270.5	1245.8	1236.6	1239.7	1248.9	1252.0	1248.9	1261.2	1279.7	1279.7
22.5°	1276.7	1273.6	1248.9	1242.7	1248.9	1255.1	1258.2	1255.1	1267.4	1282.8	1285.9
25°	1289.0	1282.8	1261.2	1258.2	1270.5	1279.7	1279.7	1273.6	1279.7	1295.2	1295.2
27.5°	1304.4	1301.3	1276.7	1276.7	1292.1	1310.6	1301.3	1289.0	1295.2	1310.6	1310.6
30°	1332.2	1329.1	1304.4	1304.4	1326.0	1347.6	1326.0	1310.6	1319.8	1335.3	1338.3
32.5°	1372.3	1372.3	1350.7	1344.5	1381.5	1390.8	1381.5	1350.7	1356.8	1378.4	1378.4
35°	1440.1	1433.9	1412.3	1409.3	1446.3	1443.2	1440.1	1412.3	1418.5	1443.2	1443.2
37.5°	1529.5	1526.4	1507.9	1498.7	1517.2	1504.9	1511.0	1498.7	1514.1	1532.6	1535.7
40°	1643.6	1640.5	1625.1	1612.8	1619.0	1600.5	1606.6	1612.8	1628.2	1640.5	1643.6
42.5°	1785.5	1785.5	1770.1	1748.5	1739.2	1730.0	1730.0	1742.3	1757.7	1773.1	1773.1
45°	1961.3	1961.3	1942.8	1921.2	1893.4	1878.0	1884.2	1896.5	1915.0	1933.5	1939.7
47.5°	2167.9	2167.9	2143.2	2121.6	2093.9	2075.4	2075.4	2081.5	2109.3	2124.7	2133.9
50°	2399.1	2389.9	2365.2	2343.6	2328.2	2303.5	2306.6	2303.5	2328.2	2349.8	2356.0
52.5°	2639.7	2636.6	2611.9	2605.8	2615.0	2602.7	2602.7	2571.8	2581.1	2593.4	2590.3
55°	2938.8	2929.5	2908.0	2920.3	2957.3	2975.8	2969.6	2920.3	2892.5	2898.7	2895.6
57.5°	3265.7	3256.4	3250.3	3287.3	3370.5	3447.6	3432.2	3318.1	3265.7	3268.8	3271.8
60°	3598.7	3598.7	3617.2	3709.7	3888.6	4015.0	3968.8	3777.6	3685.1	3666.6	3660.4
62.5°	3941.0	3950.3	3990.4	4144.5	4419.0	4628.7	4511.5	4240.1	4101.4	4064.4	4052.0
65°	4338.8	4348.1	4406.7	4597.8	4961.7	5211.5	5011.1	4755.1	4560.8	4483.7	4471.4
67.5°	4915.5	4921.6	4967.9	5152.9	5495.2	5695.7	5489.0	5260.8	5051.2	4961.7	4955.6
70°	5433.5	5439.7	5479.8	5723.4	6037.9	6108.9	5880.7	5590.8	5371.9	5300.9	5288.6
72.5°	5316.4	5337.9	5470.5	5849.8	6334.0	6426.5	5945.4	5510.6	5159.1	5041.9	5004.9
75°	4459.1	4493.0	4702.7	5273.2	6044.1	6306.2	5563.1	4764.4	4240.1	4015.0	3956.4
77.5°	2602.7	2729.1	3089.9	3820.7	4921.6	5455.1	4582.4	3487.7	2605.8	2235.7	2112.4
80°	712.3	780.2	1042.3	1757.7	3086.8	3820.7	2923.4	1600.5	863.4	647.6	601.3
82.5°	225.1	299.1	379.3	505.7	1211.9	2013.7	1085.5	471.8	370.0	305.3	271.4
85°	120.3	129.5	212.8	246.7	363.9	564.3	336.1	246.7	222.0	163.4	154.2
87.5°	61.7	64.8	120.3	120.3	160.4	132.6	144.9	132.6	126.4	80.2	70.9
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)