

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: P230969

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230969
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
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 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: 18721 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G3

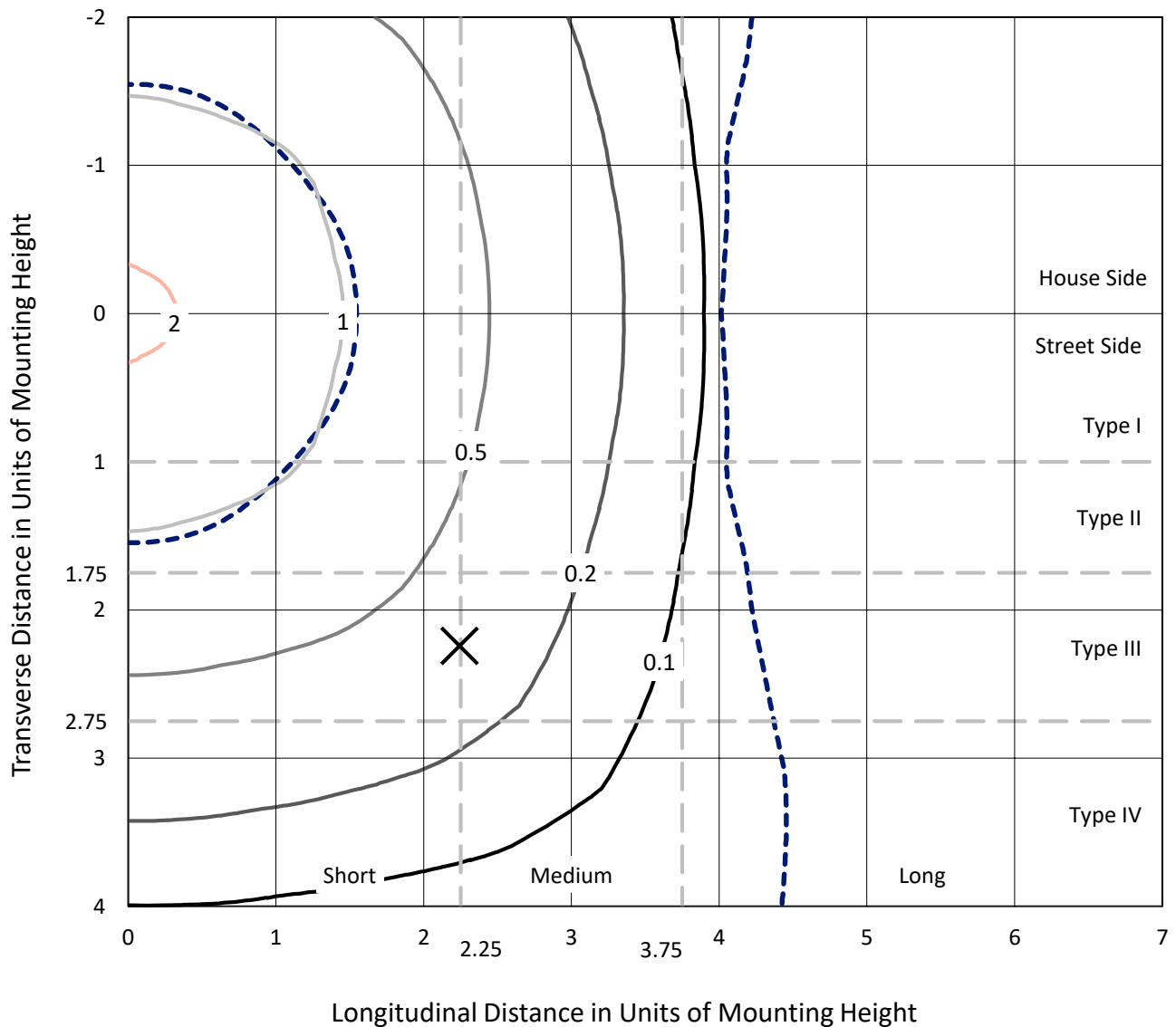
Input Watts (W): 151
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P230969
 CATALOG NUMBER: ARCH-M-AF48-150-D-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

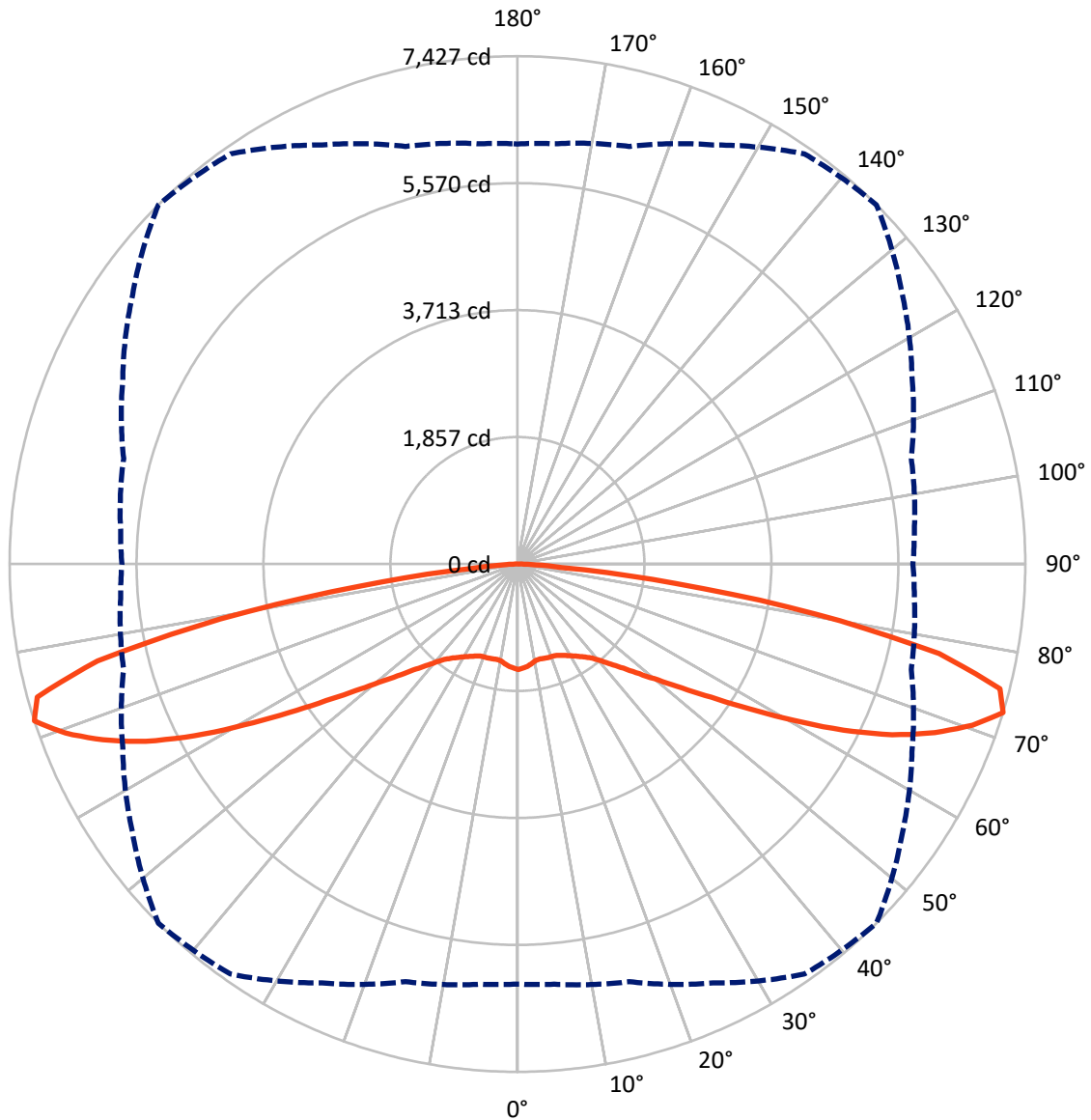


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P230969

CATALOG NUMBER: ARCH-M-AF48-150-D-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



REPORT NUMBER: P230969

CATALOG NUMBER: ARCH-M-AF48-150-D-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9360.5	0.0	9360.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9360.5	0.0	9360.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18721.0	0.0	18721.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	0.8
10°-20°	409.7	2.2
20°-30°	685.5	3.7
30°-40°	1053.3	5.6
40°-50°	1744.1	9.3
50°-60°	3100.6	16.6
60°-70°	5424.4	29.0
70°-80°	5518.9	29.5
80°-90°	642.6	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°	18721.0	100.0
0°-180°	18721.0	100.0



REPORT NUMBER: P230969

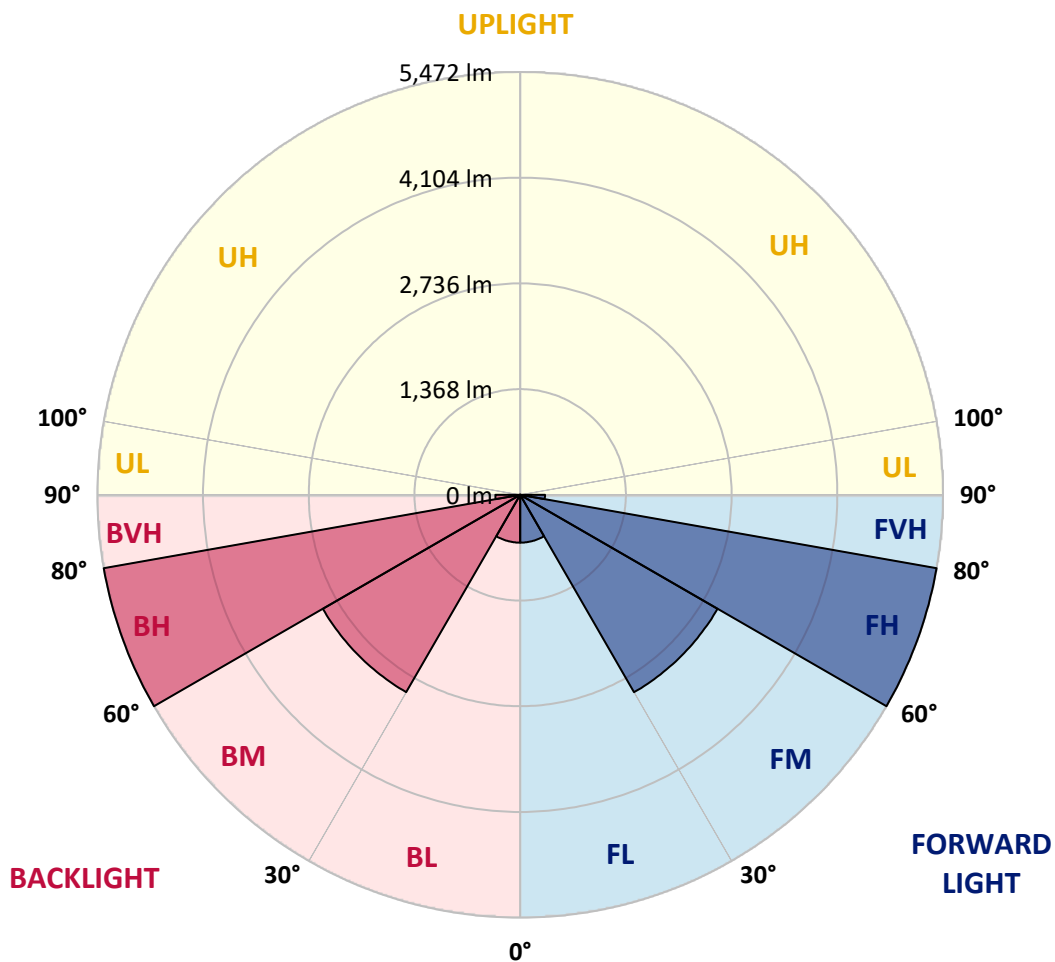
CATALOG NUMBER: ARCH-M-AF48-150-D-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	618.6	3.3			
FM	(30°-60°)	2949.0	15.8			
FH	(60°-80°)	5471.6	29.2			G3/7500
FVH	(80°-90°)	321.3	1.7			G3/500
BL	(0°-30°)	618.6	3.3	B2/1000		
BM	(30°-60°)	2949.0	15.8	B3/5000		
BH	(60°-80°)	5471.6	29.2	B5		G3/7500
BVH	(80°-90°)	321.3	1.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P230969

CATALOG NUMBER: ARCH-M-AF48-150-D-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1528.8	1532.4	1525.2	1525.2	1525.2	1521.6	1525.2	1521.6	1525.2	1528.8	1528.8
5°	1514.6	1514.6	1507.4	1507.4	1507.4	1503.8	1507.4	1507.4	1511.0	1514.6	1514.6
7.5°	1482.5	1482.5	1478.9	1475.3	1471.8	1471.8	1475.3	1475.3	1478.9	1482.5	1482.5
10°	1464.7	1461.1	1453.9	1443.3	1439.7	1436.1	1443.3	1450.4	1461.1	1471.8	1468.2
12.5°	1457.5	1453.9	1439.7	1429.1	1421.9	1425.5	1432.5	1439.7	1457.5	1468.2	1464.7
15°	1464.7	1457.5	1439.7	1421.9	1425.5	1432.5	1439.7	1439.7	1461.1	1471.8	1471.8
17.5°	1464.7	1461.1	1439.7	1425.5	1429.1	1439.7	1443.3	1439.7	1457.5	1475.3	1475.3
20°	1468.2	1468.2	1439.7	1429.1	1432.5	1443.3	1446.9	1443.3	1457.5	1478.9	1478.9
22.5°	1475.3	1471.8	1443.3	1436.1	1443.3	1450.4	1453.9	1450.4	1464.7	1482.5	1486.0
25°	1489.6	1482.5	1457.5	1453.9	1468.2	1478.9	1478.9	1471.8	1478.9	1496.7	1496.7
27.5°	1507.4	1503.8	1475.3	1475.3	1493.2	1514.6	1503.8	1489.6	1496.7	1514.6	1514.6
30°	1539.4	1536.0	1507.4	1507.4	1532.4	1557.3	1532.4	1514.6	1525.2	1543.0	1546.6
32.5°	1585.8	1585.8	1560.8	1553.8	1596.5	1607.2	1596.5	1560.8	1568.0	1592.9	1592.9
35°	1664.2	1657.1	1632.1	1628.5	1671.3	1667.8	1664.2	1632.1	1639.3	1667.8	1667.8
37.5°	1767.6	1764.0	1742.6	1732.0	1753.3	1739.0	1746.2	1732.0	1749.8	1771.1	1774.7
40°	1899.4	1895.8	1878.0	1863.8	1870.9	1849.5	1856.7	1863.8	1881.6	1895.8	1899.4
42.5°	2063.3	2063.3	2045.5	2020.5	2009.9	1999.2	1999.2	2013.5	2031.3	2049.1	2049.1
45°	2266.4	2266.4	2245.1	2220.1	2188.1	2170.3	2177.4	2191.7	2213.1	2234.4	2241.5
47.5°	2505.2	2505.2	2476.7	2451.8	2419.7	2398.3	2398.3	2405.5	2437.5	2455.3	2466.0
50°	2772.5	2761.8	2733.3	2708.4	2690.6	2662.0	2665.6	2662.0	2690.6	2715.5	2722.6
52.5°	3050.4	3046.9	3018.4	3011.3	3021.9	3007.7	3007.7	2972.1	2982.7	2997.0	2993.5
55°	3396.1	3385.5	3360.5	3374.7	3417.5	3438.9	3431.8	3374.7	3342.7	3349.8	3346.3
57.5°	3773.9	3763.2	3756.1	3798.8	3895.0	3984.1	3966.3	3834.4	3773.9	3777.5	3781.0
60°	4158.7	4158.7	4180.1	4287.1	4493.7	4639.8	4586.4	4365.4	4258.5	4237.2	4230.0
62.5°	4554.3	4565.0	4611.4	4789.5	5106.7	5349.0	5213.6	4899.9	4739.6	4696.9	4682.6
65°	5014.0	5024.7	5092.5	5313.3	5733.8	6022.5	5790.9	5495.1	5270.5	5181.6	5167.2
67.5°	5680.4	5687.5	5741.0	5954.8	6350.4	6582.0	6343.2	6079.5	5837.2	5733.8	5726.8
70°	6279.1	6286.2	6332.6	6614.1	6977.5	7059.5	6795.9	6460.9	6207.8	6125.8	6111.6
72.5°	6143.6	6168.6	6321.8	6760.2	7319.7	7426.6	6870.6	6368.2	5962.0	5826.5	5783.8
75°	5153.0	5192.2	5434.5	6093.8	6984.7	7287.6	6428.7	5505.8	4899.9	4639.8	4572.1
77.5°	3007.7	3153.8	3570.7	4415.4	5687.5	6304.0	5295.5	4030.4	3011.3	2583.7	2441.1
80°	823.2	901.6	1204.5	2031.3	3567.2	4415.4	3378.3	1849.5	997.8	748.4	694.9
82.5°	260.1	345.7	438.3	584.4	1400.5	2327.0	1254.4	545.2	427.6	352.8	313.6
85°	139.0	149.7	245.9	285.1	420.5	652.1	388.4	285.1	256.6	188.8	178.2
87.5°	71.3	74.9	139.0	139.0	185.4	153.2	167.5	153.2	146.1	92.7	81.9
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)