

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: P230984

Luminaire Tested: **ARCH-M-AF48-40-D-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230984
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-AF48-40-D-U-5WQ-7050
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 240mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5570 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 38
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

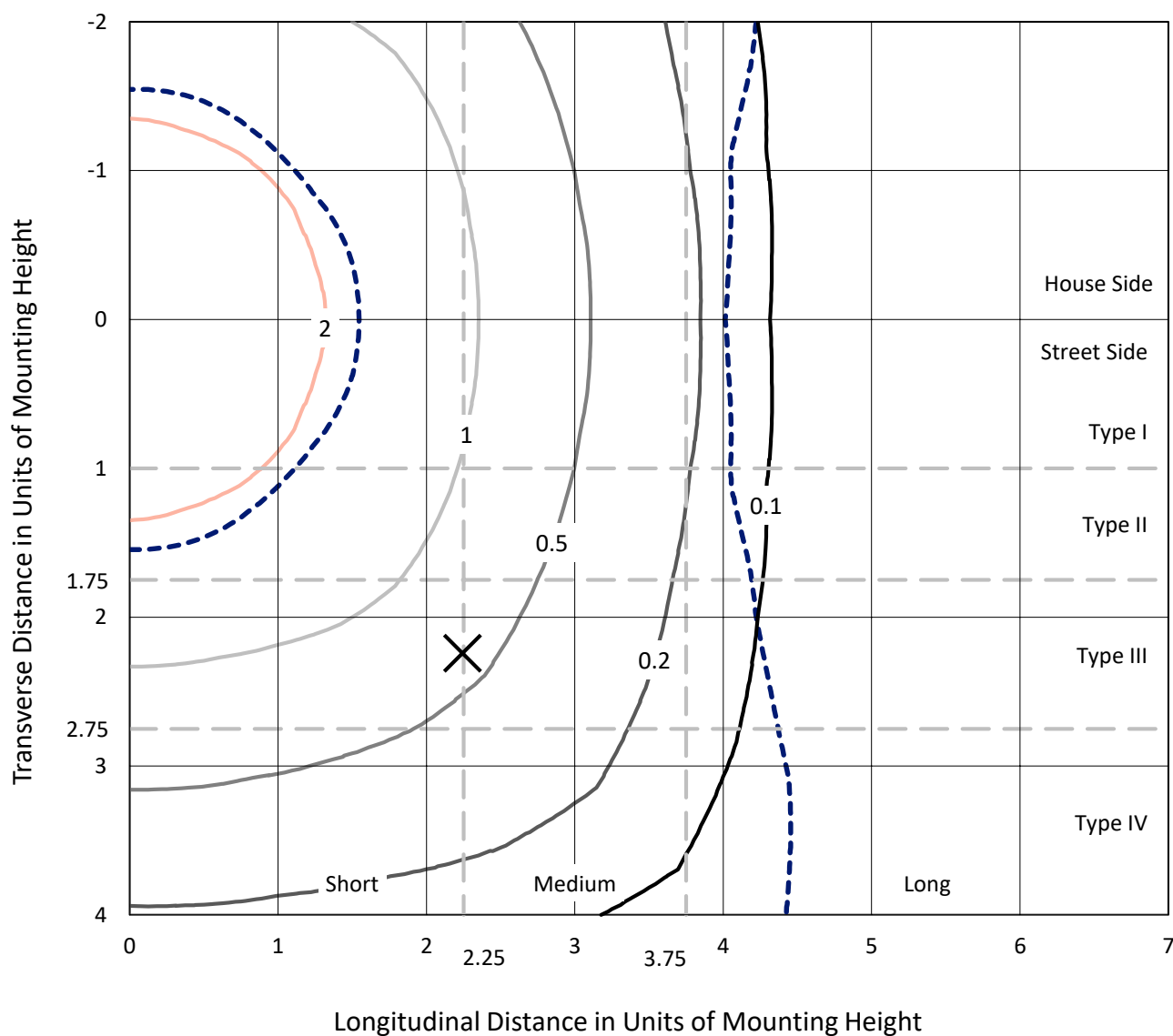


REPORT NUMBER: P230984

CATALOG NUMBER: ARCH-M-AF48-40-D-U-5WQ-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

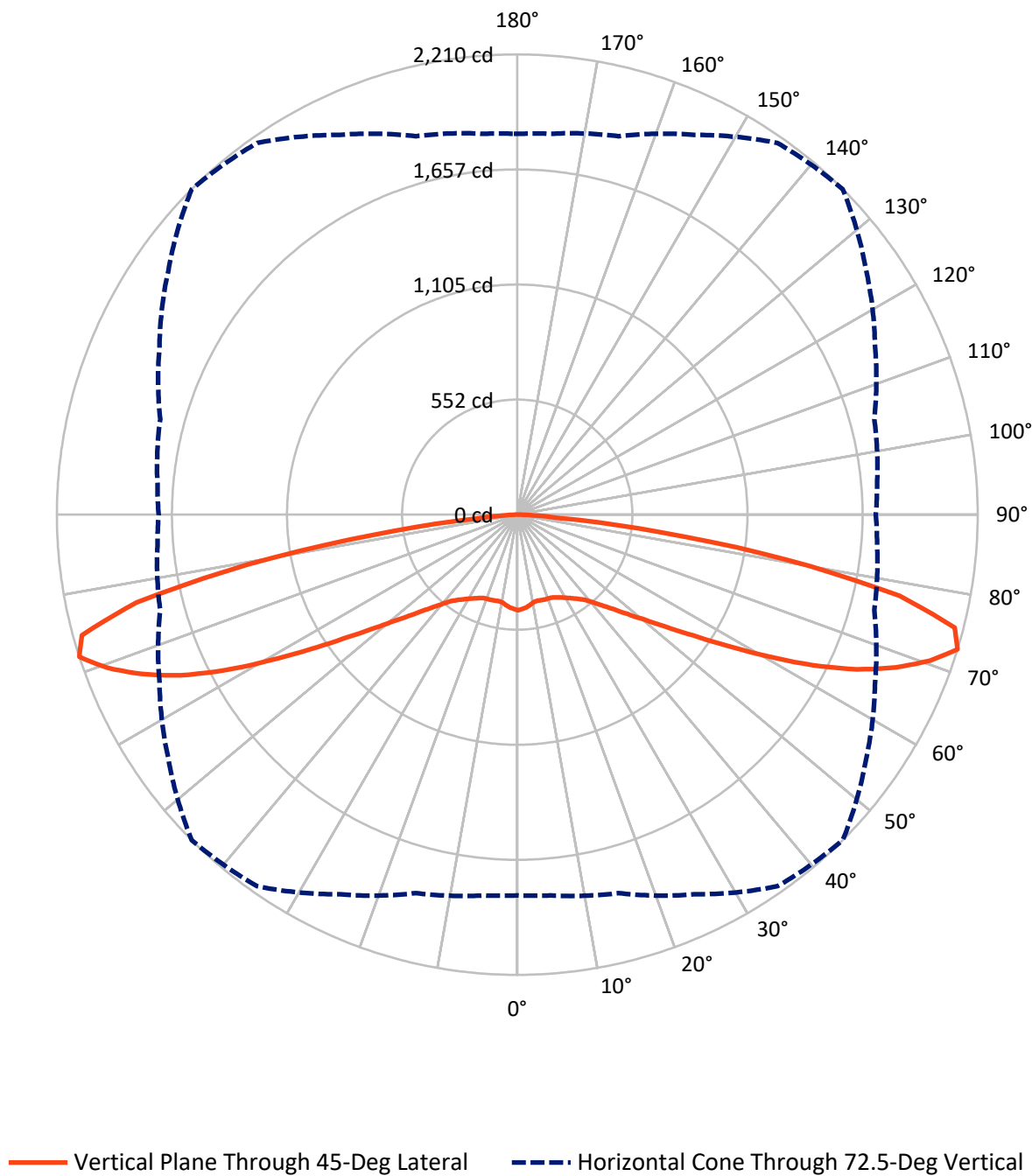


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P230984

CATALOG NUMBER: ARCH-M-AF48-40-D-U-5WQ-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P230984

CATALOG NUMBER: ARCH-M-AF48-40-D-U-5WQ-7050

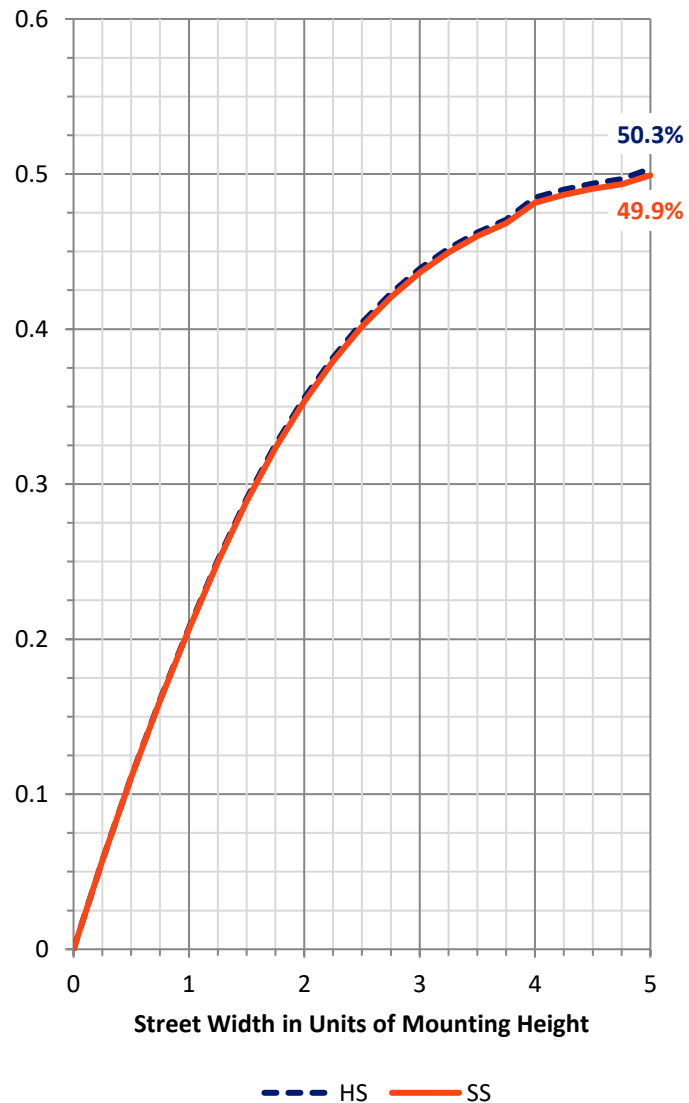
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2785.0	0.0	2785.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2785.0	0.0	2785.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5570.0	0.0	5570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	0.8
10°-20°	121.9	2.2
20°-30°	204.0	3.7
30°-40°	313.4	5.6
40°-50°	518.9	9.3
50°-60°	922.5	16.6
60°-70°	1613.9	29.0
70°-80°	1642.0	29.5
80°-90°	191.2	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°	5570.0	100.0
0°-180°	5570.0	100.0

Coefficient of Utilization



REPORT NUMBER: P230984

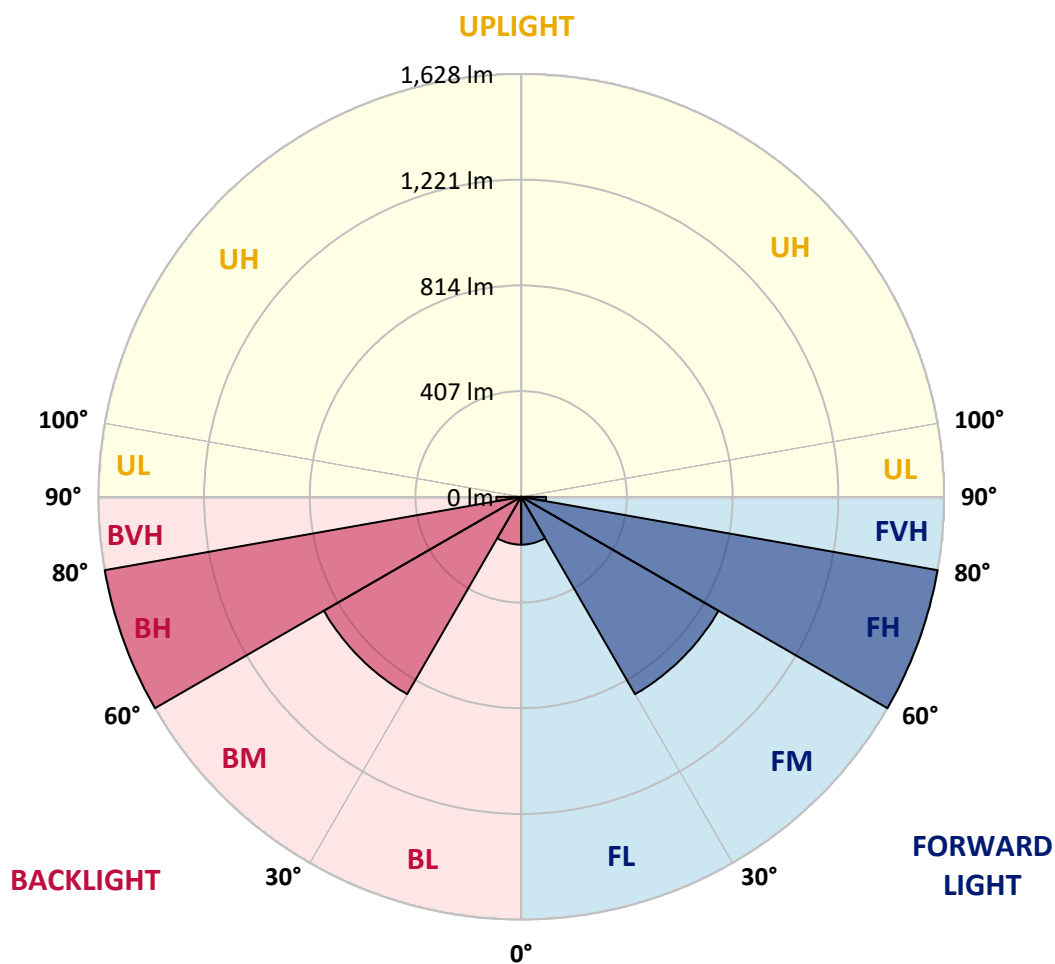
CATALOG NUMBER: ARCH-M-AF48-40-D-U-5WQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.0	3.3			
FM	(30°-60°)	877.4	15.8			
FH	(60°-80°)	1628.0	29.2			G1/1800
FVH	(80°-90°)	95.6	1.7			G1/100
BL	(0°-30°)	184.0	3.3	B1/500		
BM	(30°-60°)	877.4	15.8	B1/1000		
BH	(60°-80°)	1628.0	29.2	B3/2500		G1/1800
BVH	(80°-90°)	95.6	1.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P230984

CATALOG NUMBER: ARCH-M-AF48-40-D-U-5WQ-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1
2.5°	454.9	455.9	453.8	453.8	453.8	452.7	453.8	452.7	453.8	454.9	454.9
5°	450.6	450.6	448.5	448.5	448.5	447.4	448.5	448.5	449.6	450.6	450.6
7.5°	441.1	441.1	440.0	439.0	437.9	437.9	439.0	439.0	440.0	441.1	441.1
10°	435.8	434.7	432.6	429.4	428.3	427.3	429.4	431.5	434.7	437.9	436.8
12.5°	433.7	432.6	428.3	425.2	423.0	424.1	426.2	428.3	433.7	436.8	435.8
15°	435.8	433.7	428.3	423.0	424.1	426.2	428.3	428.3	434.7	437.9	437.9
17.5°	435.8	434.7	428.3	424.1	425.2	428.3	429.4	428.3	433.7	439.0	439.0
20°	436.8	436.8	428.3	425.2	426.2	429.4	430.5	429.4	433.7	440.0	440.0
22.5°	439.0	437.9	429.4	427.3	429.4	431.5	432.6	431.5	435.8	441.1	442.1
25°	443.2	441.1	433.7	432.6	436.8	440.0	440.0	437.9	440.0	445.3	445.3
27.5°	448.5	447.4	439.0	439.0	444.3	450.6	447.4	443.2	445.3	450.6	450.6
30°	458.0	457.0	448.5	448.5	455.9	463.3	455.9	450.6	453.8	459.1	460.2
32.5°	471.8	471.8	464.4	462.3	475.0	478.2	475.0	464.4	466.5	473.9	473.9
35°	495.1	493.0	485.6	484.5	497.3	496.2	495.1	485.6	487.7	496.2	496.2
37.5°	525.9	524.8	518.5	515.3	521.7	517.4	519.5	515.3	520.6	527.0	528.0
40°	565.1	564.1	558.8	554.5	556.6	550.3	552.4	554.5	559.8	564.1	565.1
42.5°	613.9	613.9	608.6	601.2	598.0	594.8	594.8	599.1	604.4	609.7	609.7
45°	674.3	674.3	668.0	660.5	651.0	645.7	647.8	652.1	658.4	664.8	666.9
47.5°	745.4	745.4	736.9	729.5	719.9	713.6	713.6	715.7	725.2	730.5	733.7
50°	824.9	821.7	813.2	805.8	800.5	792.0	793.1	792.0	800.5	807.9	810.0
52.5°	907.6	906.5	898.0	895.9	899.1	894.9	894.9	884.3	887.4	891.7	890.6
55°	1010.4	1007.3	999.8	1004.1	1016.8	1023.2	1021.0	1004.1	994.5	996.7	995.6
57.5°	1122.8	1119.6	1117.5	1130.2	1158.9	1185.4	1180.1	1140.9	1122.8	1123.9	1124.9
60°	1237.3	1237.3	1243.7	1275.5	1337.0	1380.5	1364.6	1298.8	1267.0	1260.7	1258.5
62.5°	1355.0	1358.2	1372.0	1425.0	1519.4	1591.5	1551.2	1457.9	1410.2	1397.4	1393.2
65°	1491.8	1495.0	1515.1	1580.9	1706.0	1791.9	1722.9	1634.9	1568.1	1541.6	1537.4
67.5°	1690.1	1692.2	1708.1	1771.7	1889.4	1958.3	1887.3	1808.8	1736.7	1706.0	1703.9
70°	1868.2	1870.3	1884.1	1967.9	2076.0	2100.4	2021.9	1922.3	1847.0	1822.6	1818.4
72.5°	1827.9	1835.3	1880.9	2011.3	2177.8	2209.6	2044.2	1894.7	1773.8	1733.5	1720.8
75°	1533.2	1544.8	1616.9	1813.1	2078.1	2168.3	1912.7	1638.1	1457.9	1380.5	1360.3
77.5°	894.9	938.3	1062.4	1313.7	1692.2	1875.6	1575.6	1199.2	895.9	768.7	726.3
80°	244.9	268.2	358.4	604.4	1061.3	1313.7	1005.1	550.3	296.9	222.7	206.8
82.5°	77.4	102.8	130.4	173.9	416.7	692.4	373.2	162.2	127.2	105.0	93.3
85°	41.4	44.5	73.2	84.8	125.1	194.0	115.6	84.8	76.3	56.2	53.0
87.5°	21.2	22.3	41.4	41.4	55.1	45.6	49.8	45.6	43.5	27.6	24.4
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)