

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: P230947

Luminaire Tested: **ARCH-M-AF48-60-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230947
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-AF48-60-D-U-5WQ-7030
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 405mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7926 lumens
Efficiency: N/A
Efficacy: 125.8 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 - G2

Input Watts (W): 63
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

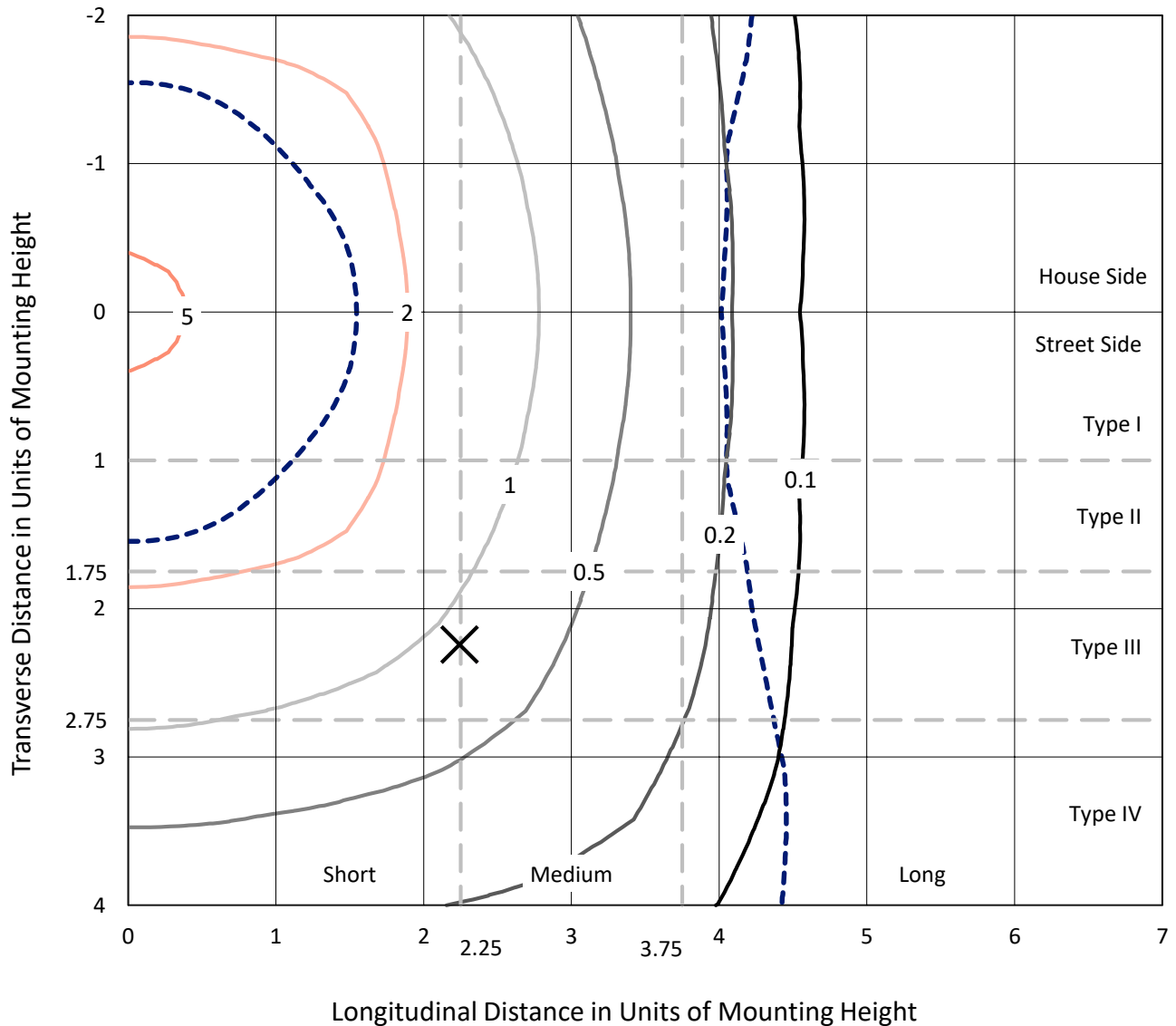


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

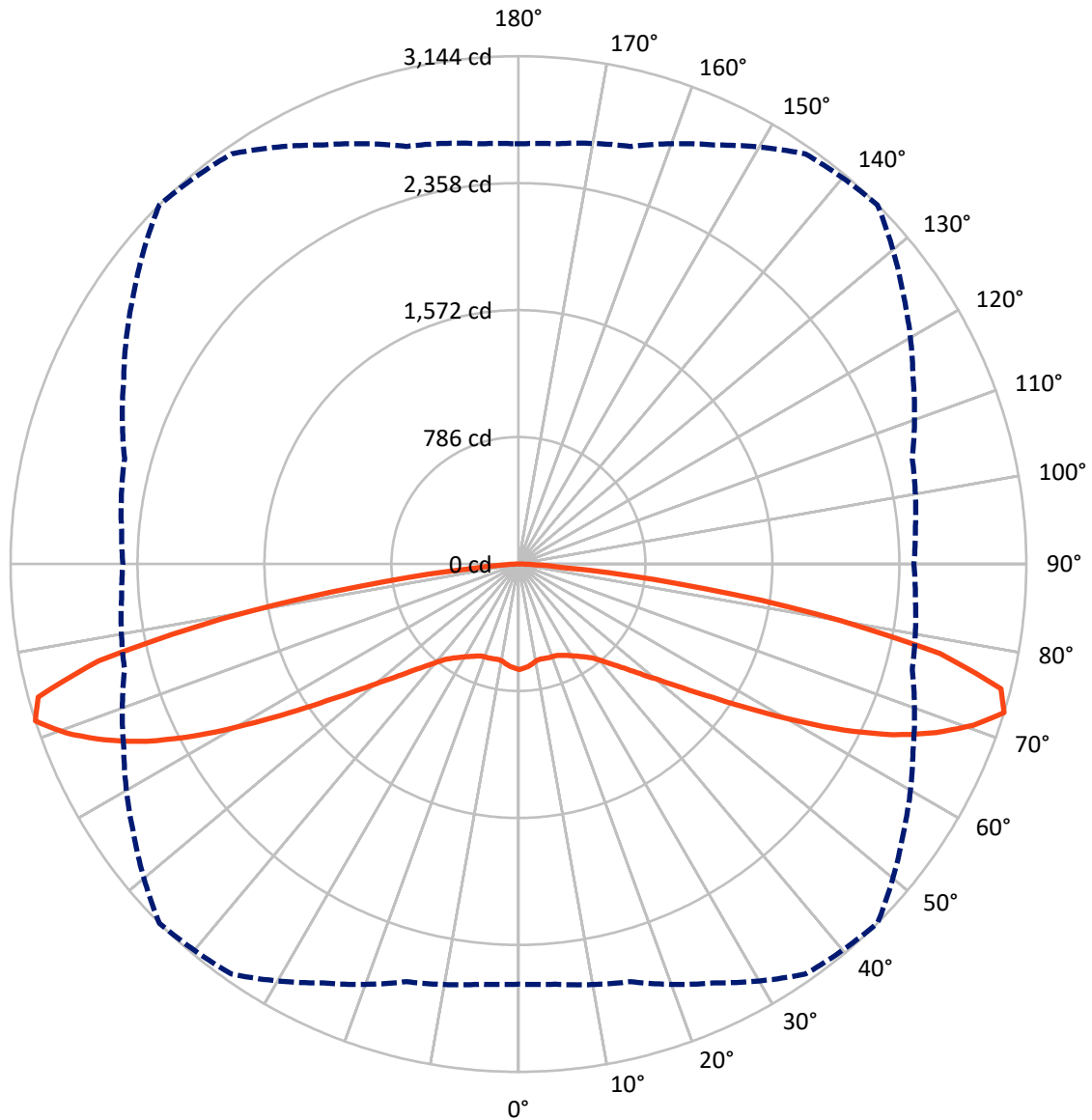


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - Non-Cutoff

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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	3963.0	0.0	3963.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3963.0	0.0	3963.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7926.0	0.0	7926.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	0.8
10°-20°	173.4	2.2
20°-30°	290.2	3.7
30°-40°	445.9	5.6
40°-50°	738.4	9.3
50°-60°	1312.7	16.6
60°-70°	2296.5	29.0
70°-80°	2336.5	29.5
80°-90°	272.1	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°	7926.0	100.0
0°-180°	7926.0	100.0



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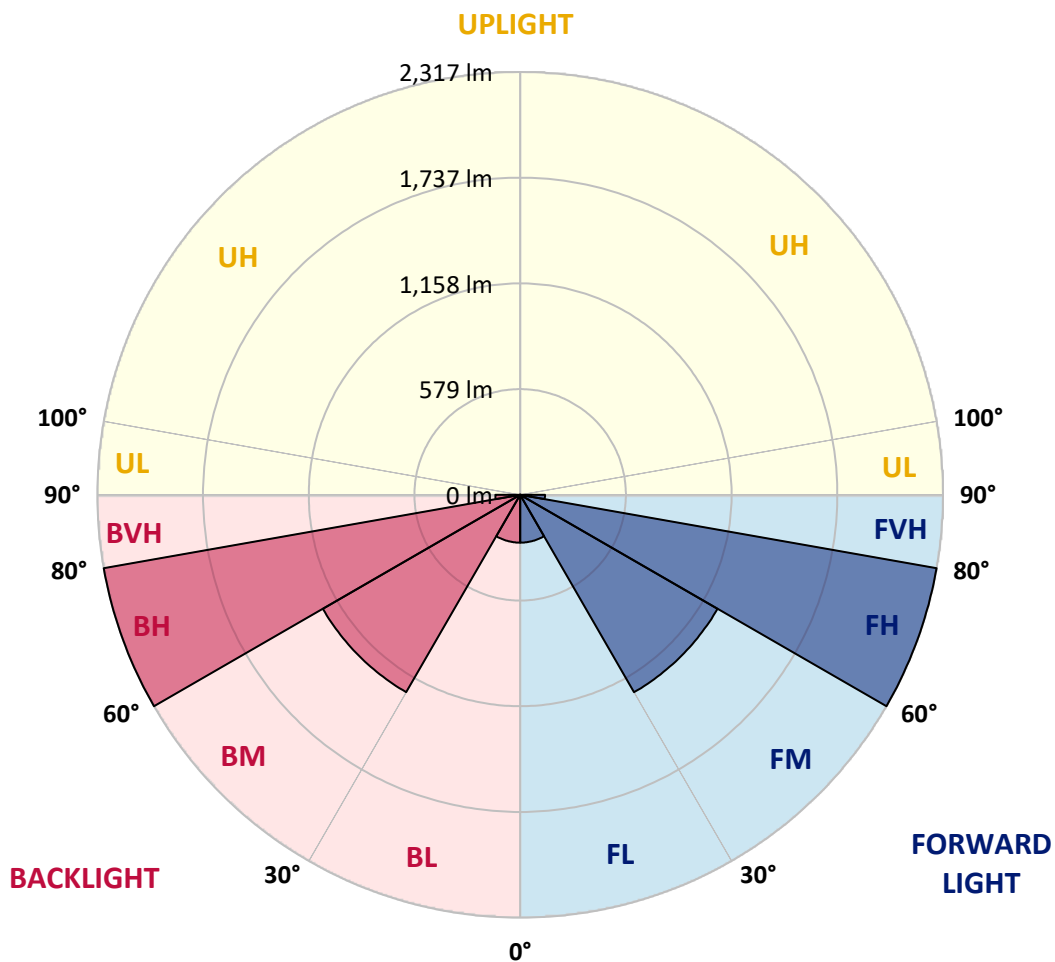
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.9	3.3			
FM	(30°-60°)	1248.5	15.8			
FH	(60°-80°)	2316.5	29.2			G2/5000
FVH	(80°-90°)	136.0	1.7			G2/225
BL	(0°-30°)	261.9	3.3	B1/500		
BM	(30°-60°)	1248.5	15.8	B2/2500		
BH	(60°-80°)	2316.5	29.2	B3/2500		G2/5000
BVH	(80°-90°)	136.0	1.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	653.3	653.3	653.3	653.3	653.3	653.3	653.3	653.3	653.3	653.3	653.3
2.5°	647.3	648.8	645.7	645.7	645.7	644.2	645.7	644.2	645.7	647.3	647.3
5°	641.2	641.2	638.2	638.2	638.2	636.7	638.2	638.2	639.7	641.2	641.2
7.5°	627.6	627.6	626.1	624.6	623.1	623.1	624.6	624.6	626.1	627.6	627.6
10°	620.1	618.6	615.6	611.0	609.5	608.0	611.0	614.1	618.6	623.1	621.6
12.5°	617.1	615.6	609.5	605.0	602.0	603.5	606.5	609.5	617.1	621.6	620.1
15°	620.1	617.1	609.5	602.0	603.5	606.5	609.5	609.5	618.6	623.1	623.1
17.5°	620.1	618.6	609.5	603.5	605.0	609.5	611.0	609.5	617.1	624.6	624.6
20°	621.6	621.6	609.5	605.0	606.5	611.0	612.6	611.0	617.1	626.1	626.1
22.5°	624.6	623.1	611.0	608.0	611.0	614.1	615.6	614.1	620.1	627.6	629.1
25°	630.7	627.6	617.1	615.6	621.6	626.1	626.1	623.1	626.1	633.7	633.7
27.5°	638.2	636.7	624.6	624.6	632.2	641.2	636.7	630.7	633.7	641.2	641.2
30°	651.8	650.3	638.2	638.2	648.8	659.3	648.8	641.2	645.7	653.3	654.8
32.5°	671.4	671.4	660.8	657.8	675.9	680.4	675.9	660.8	663.8	674.4	674.4
35°	704.6	701.6	691.0	689.5	707.6	706.1	704.6	691.0	694.0	706.1	706.1
37.5°	748.3	746.8	737.8	733.3	742.3	736.3	739.3	733.3	740.8	749.8	751.4
40°	804.2	802.7	795.1	789.1	792.1	783.0	786.1	789.1	796.6	802.7	804.2
42.5°	873.6	873.6	866.0	855.5	850.9	846.4	846.4	852.4	860.0	867.5	867.5
45°	959.6	959.6	950.5	939.9	926.4	918.8	921.8	927.9	936.9	946.0	949.0
47.5°	1060.6	1060.6	1048.6	1038.0	1024.4	1015.4	1015.4	1018.4	1032.0	1039.5	1044.1
50°	1173.8	1169.3	1157.2	1146.6	1139.1	1127.0	1128.5	1127.0	1139.1	1149.7	1152.7
52.5°	1291.5	1290.0	1277.9	1274.9	1279.4	1273.4	1273.4	1258.3	1262.8	1268.9	1267.3
55°	1437.8	1433.3	1422.7	1428.8	1446.9	1455.9	1452.9	1428.8	1415.2	1418.2	1416.7
57.5°	1597.8	1593.2	1590.2	1608.3	1649.1	1686.8	1679.2	1623.4	1597.8	1599.3	1600.8
60°	1760.7	1760.7	1769.8	1815.0	1902.5	1964.4	1941.8	1848.2	1803.0	1793.9	1790.9
62.5°	1928.2	1932.7	1952.3	2027.8	2162.0	2264.6	2207.3	2074.5	2006.6	1988.5	1982.5
65°	2122.8	2127.3	2156.0	2249.5	2427.6	2549.8	2451.7	2326.5	2231.4	2193.7	2187.7
67.5°	2404.9	2408.0	2430.6	2521.1	2688.6	2786.7	2685.6	2573.9	2471.3	2427.6	2424.6
70°	2658.4	2661.4	2681.0	2800.2	2954.1	2988.8	2877.2	2735.4	2628.2	2593.5	2587.5
72.5°	2601.1	2611.6	2676.5	2862.1	3099.0	3144.2	2908.9	2696.1	2524.1	2466.8	2448.7
75°	2181.6	2198.2	2300.8	2580.0	2957.1	3085.4	2721.8	2331.0	2074.5	1964.4	1935.7
77.5°	1273.4	1335.2	1511.8	1869.3	2408.0	2669.0	2242.0	1706.4	1274.9	1093.8	1033.5
80°	348.5	381.7	510.0	860.0	1510.3	1869.3	1430.3	783.0	422.4	316.8	294.2
82.5°	110.1	146.3	185.6	247.4	592.9	985.2	531.1	230.8	181.0	149.4	132.8
85°	58.8	63.4	104.1	120.7	178.0	276.1	164.5	120.7	108.6	80.0	75.4
87.5°	30.2	31.7	58.8	58.8	78.5	64.9	70.9	64.9	61.9	39.2	34.7
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)