

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: P230948

Luminaire Tested: **ARCH-M-AF48-70-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230948
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-AF48-70-D-U-5WQ-7030
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 470mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9034 lumens
Efficiency: N/A
Efficacy: 123.8 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): 73
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

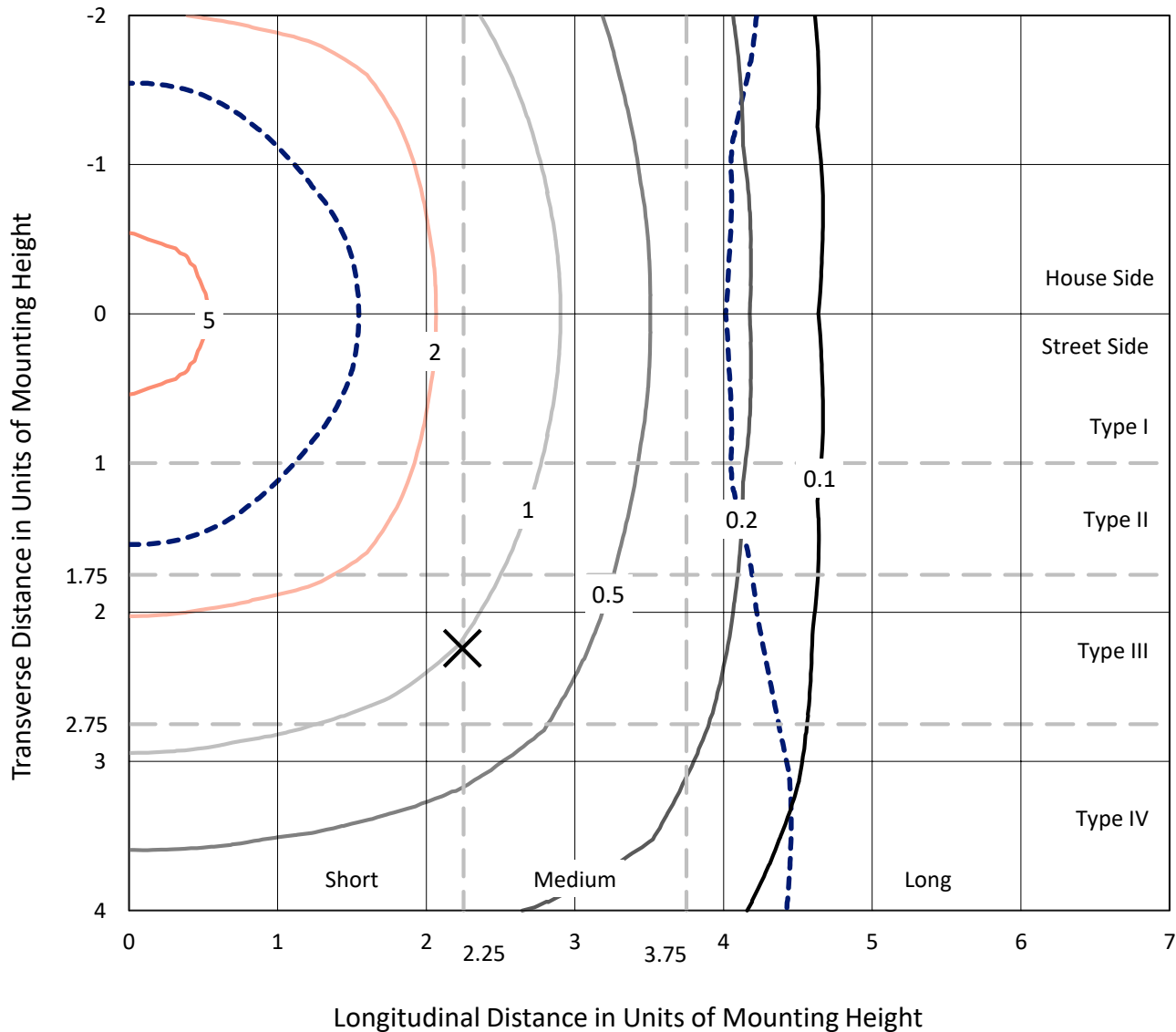


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

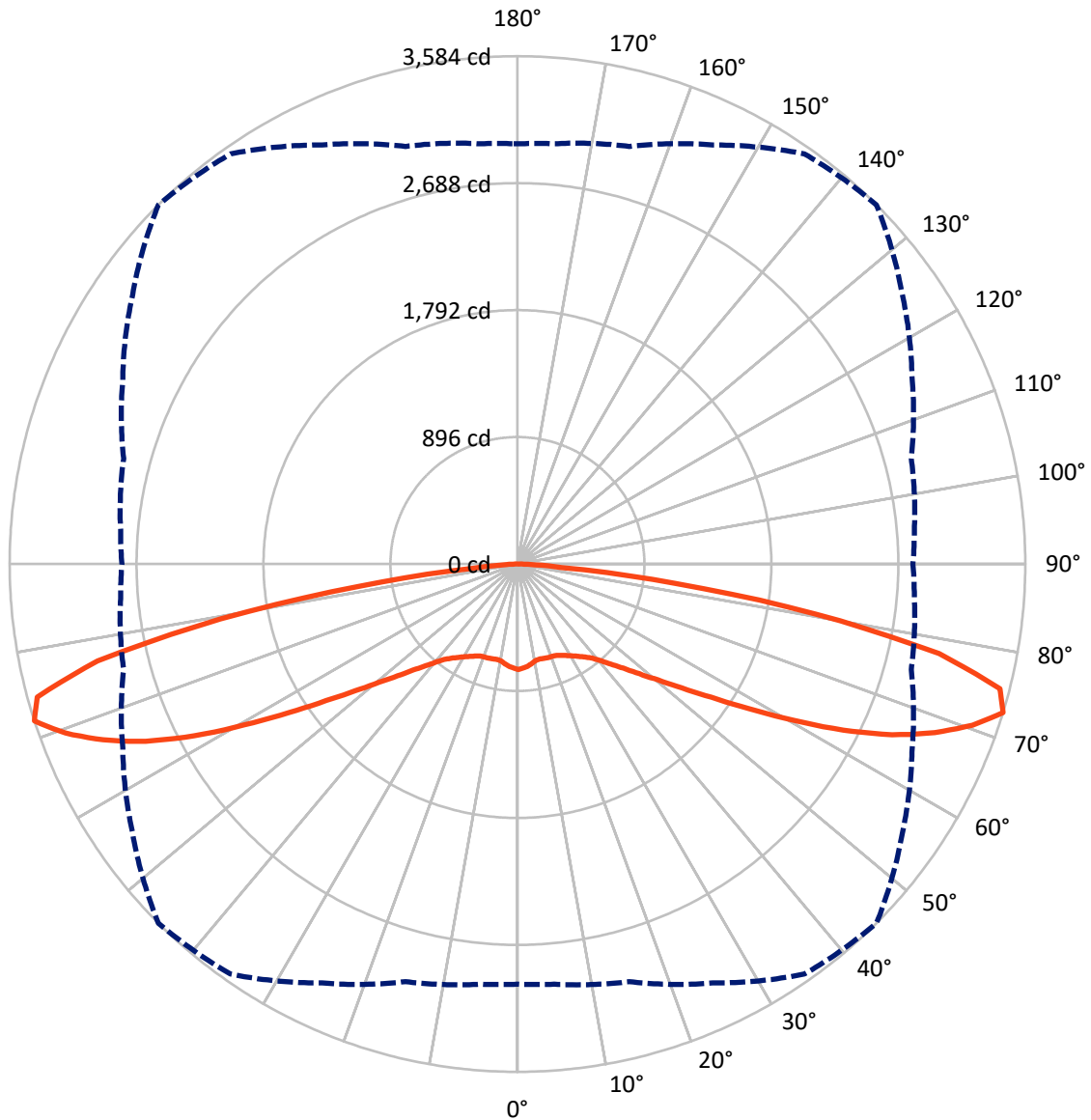


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - Non-Cutoff

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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	4517.0	0.0	4517.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4517.0	0.0	4517.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9034.0	0.0	9034.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	0.8
10°-20°	197.7	2.2
20°-30°	330.8	3.7
30°-40°	508.3	5.6
40°-50°	841.6	9.3
50°-60°	1496.2	16.6
60°-70°	2617.6	29.0
70°-80°	2663.2	29.5
80°-90°	310.1	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°	9034.0	100.0
0°-180°	9034.0	100.0



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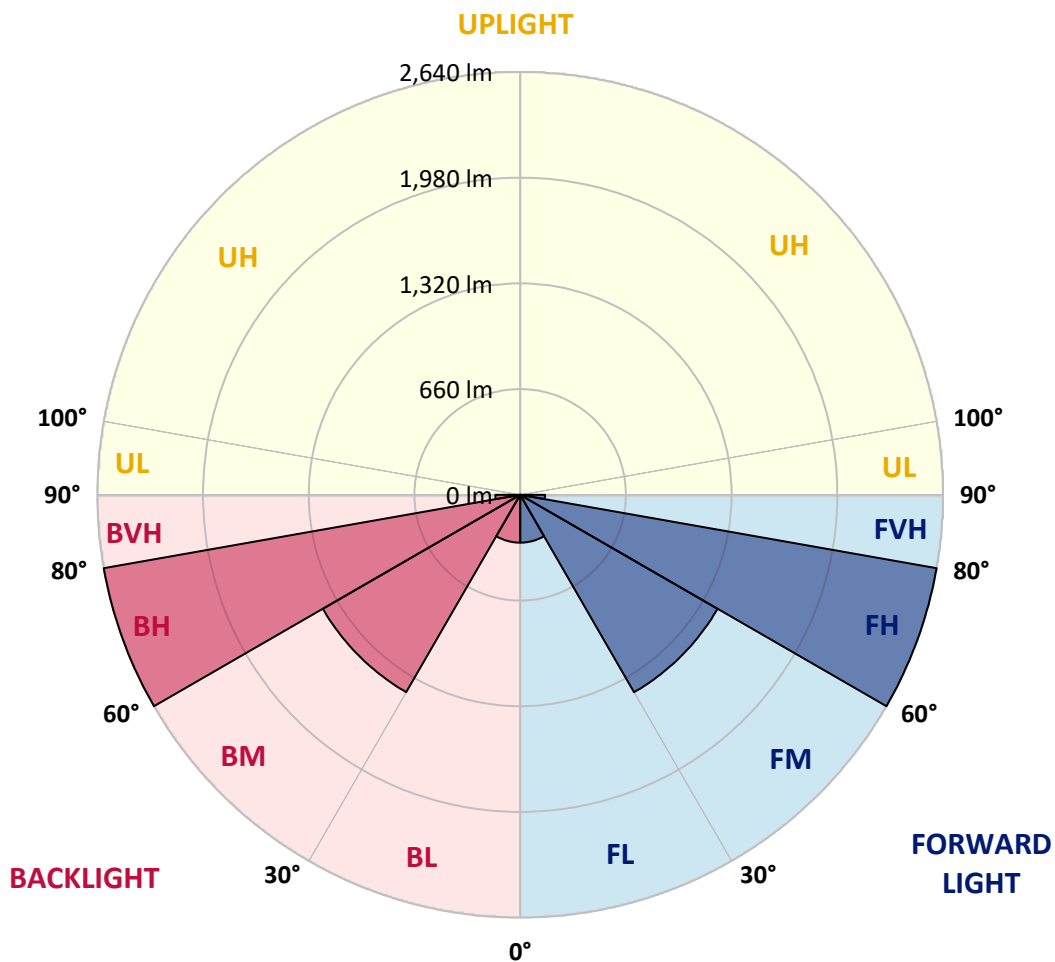
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	298.5	3.3			
FM	(30°-60°)	1423.1	15.8			
FH	(60°-80°)	2640.4	29.2			G2/5000
FVH	(80°-90°)	155.1	1.7			G2/225
BL	(0°-30°)	298.5	3.3	B1/500		
BM	(30°-60°)	1423.1	15.8	B2/2500		
BH	(60°-80°)	2640.4	29.2	B4/5000		G2/5000
BVH	(80°-90°)	155.1	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°	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6
2.5°	737.7	739.5	736.0	736.0	736.0	734.3	736.0	734.3	736.0	737.7	737.7
5°	730.9	730.9	727.4	727.4	727.4	725.7	727.4	727.4	729.1	730.9	730.9
7.5°	715.4	715.4	713.7	711.9	710.2	710.2	711.9	711.9	713.7	715.4	715.4
10°	706.8	705.1	701.6	696.5	694.7	693.0	696.5	699.9	705.1	710.2	708.5
12.5°	703.3	701.6	694.7	689.6	686.1	687.9	691.3	694.7	703.3	708.5	706.8
15°	706.8	703.3	694.7	686.1	687.9	691.3	694.7	694.7	705.1	710.2	710.2
17.5°	706.8	705.1	694.7	687.9	689.6	694.7	696.5	694.7	703.3	711.9	711.9
20°	708.5	708.5	694.7	689.6	691.3	696.5	698.2	696.5	703.3	713.7	713.7
22.5°	711.9	710.2	696.5	693.0	696.5	699.9	701.6	699.9	706.8	715.4	717.1
25°	718.8	715.4	703.3	701.6	708.5	713.7	713.7	710.2	713.7	722.3	722.3
27.5°	727.4	725.7	711.9	711.9	720.5	730.9	725.7	718.8	722.3	730.9	730.9
30°	742.9	741.2	727.4	727.4	739.5	751.5	739.5	730.9	736.0	744.6	746.3
32.5°	765.2	765.2	753.2	749.8	770.4	775.6	770.4	753.2	756.6	768.7	768.7
35°	803.1	799.6	787.6	785.9	806.5	804.8	803.1	787.6	791.0	804.8	804.8
37.5°	852.9	851.2	840.9	835.8	846.1	839.2	842.6	835.8	844.4	854.7	856.4
40°	916.6	914.9	906.3	899.4	902.8	892.5	895.9	899.4	908.0	914.9	916.6
42.5°	995.7	995.7	987.1	975.0	969.9	964.7	964.7	971.6	980.2	988.8	988.8
45°	1093.7	1093.7	1083.4	1071.3	1055.9	1047.3	1050.7	1057.6	1067.9	1078.2	1081.7
47.5°	1208.9	1208.9	1195.2	1183.1	1167.6	1157.3	1157.3	1160.8	1176.2	1184.8	1190.0
50°	1337.9	1332.7	1319.0	1306.9	1298.3	1284.6	1286.3	1284.6	1298.3	1310.4	1313.8
52.5°	1472.0	1470.3	1456.5	1453.1	1458.3	1451.4	1451.4	1434.2	1439.4	1446.2	1444.5
55°	1638.8	1633.7	1621.6	1628.5	1649.2	1659.5	1656.0	1628.5	1613.0	1616.5	1614.8
57.5°	1821.1	1816.0	1812.5	1833.2	1879.6	1922.6	1914.0	1850.4	1821.1	1822.8	1824.6
60°	2006.8	2006.8	2017.2	2068.7	2168.5	2239.0	2213.2	2106.6	2055.0	2044.7	2041.2
62.5°	2197.7	2202.9	2225.2	2311.2	2464.3	2581.2	2515.9	2364.5	2287.1	2266.5	2259.6
65°	2419.6	2424.7	2457.4	2564.0	2766.9	2906.2	2794.4	2651.7	2543.4	2500.4	2493.5
67.5°	2741.1	2744.6	2770.4	2873.5	3064.4	3176.2	3061.0	2933.7	2816.8	2766.9	2763.5
70°	3030.0	3033.5	3055.8	3191.7	3367.1	3406.6	3279.4	3117.7	2995.6	2956.1	2949.2
72.5°	2964.7	2976.7	3050.7	3262.2	3532.2	3583.8	3315.5	3073.0	2877.0	2811.6	2791.0
75°	2486.6	2505.5	2622.5	2940.6	3370.5	3516.7	3102.3	2656.9	2364.5	2239.0	2206.3
77.5°	1451.4	1521.9	1723.1	2130.7	2744.6	3042.1	2555.4	1944.9	1453.1	1246.8	1178.0
80°	397.2	435.1	581.2	980.2	1721.4	2130.7	1630.2	892.5	481.5	361.1	335.3
82.5°	125.5	166.8	211.5	282.0	675.8	1122.9	605.3	263.1	206.4	170.2	151.3
85°	67.1	72.2	118.7	137.6	202.9	314.7	187.4	137.6	123.8	91.1	86.0
87.5°	34.4	36.1	67.1	67.1	89.4	73.9	80.8	73.9	70.5	44.7	39.6
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)