

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: P230954

Luminaire Tested: **ARCH-M-AF48-130-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230954
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-AF48-130-D-U-5WQ-7030
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 845mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14671 lumens
Efficiency: N/A
Efficacy: 112.0 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): 131
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

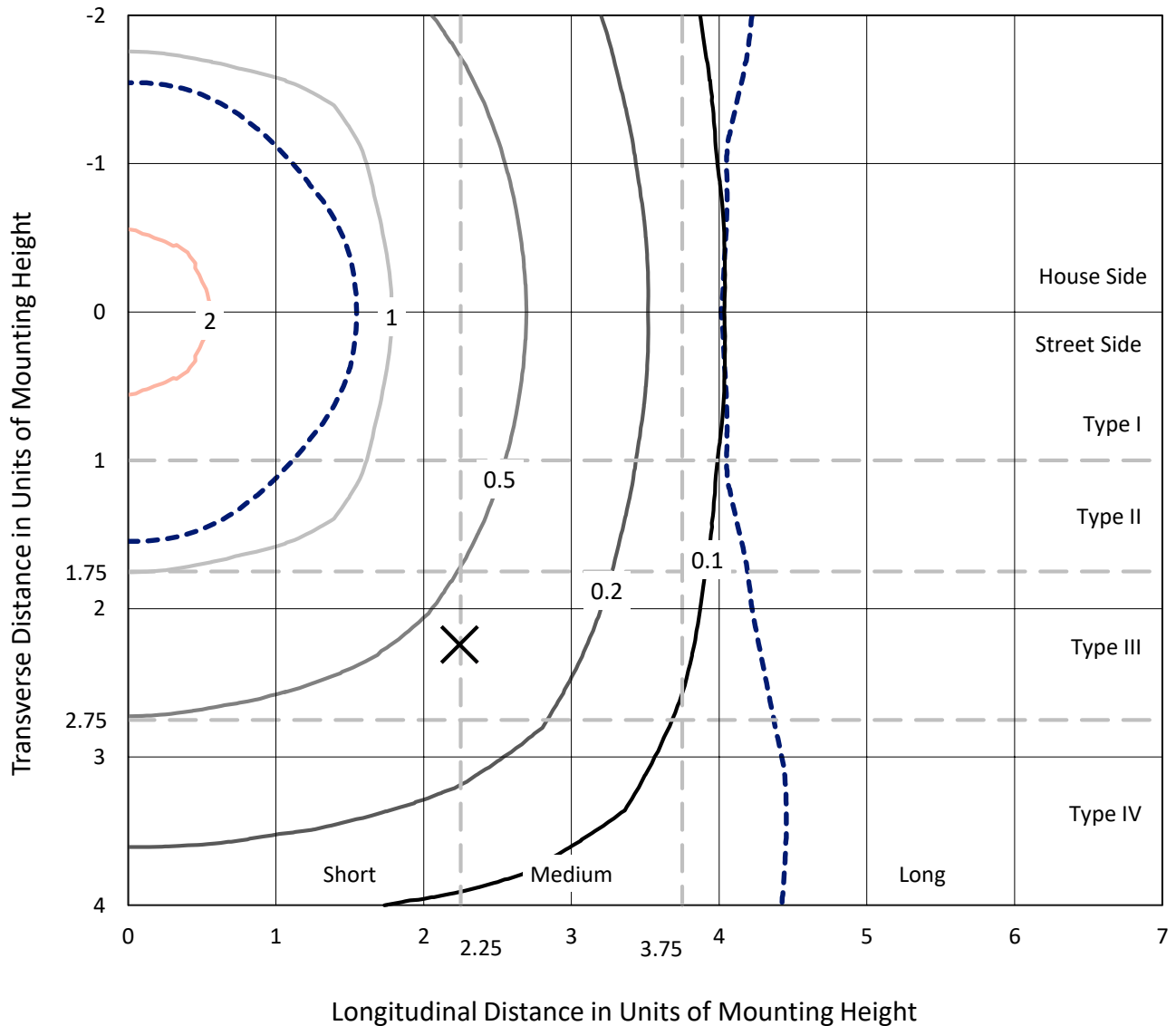


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

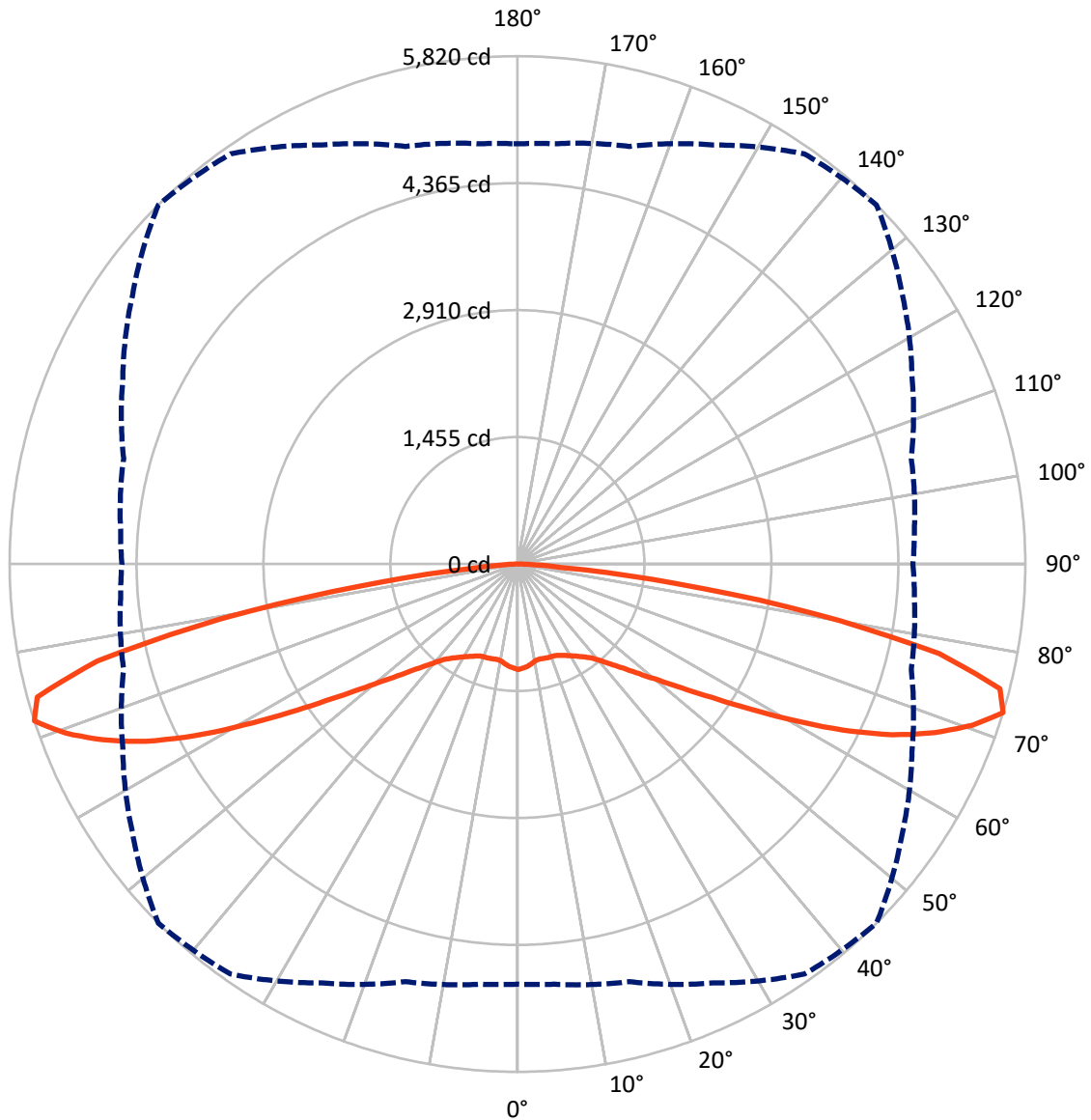


Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Non-Cutoff

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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	7335.5	0.0	7335.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7335.5	0.0	7335.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14671.0	0.0	14671.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	0.8
10°-20°	321.0	2.2
20°-30°	537.2	3.7
30°-40°	825.4	5.6
40°-50°	1366.7	9.3
50°-60°	2429.8	16.6
60°-70°	4250.9	29.0
70°-80°	4324.9	29.5
80°-90°	503.6	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°	14671.0	100.0
0°-180°	14671.0	100.0



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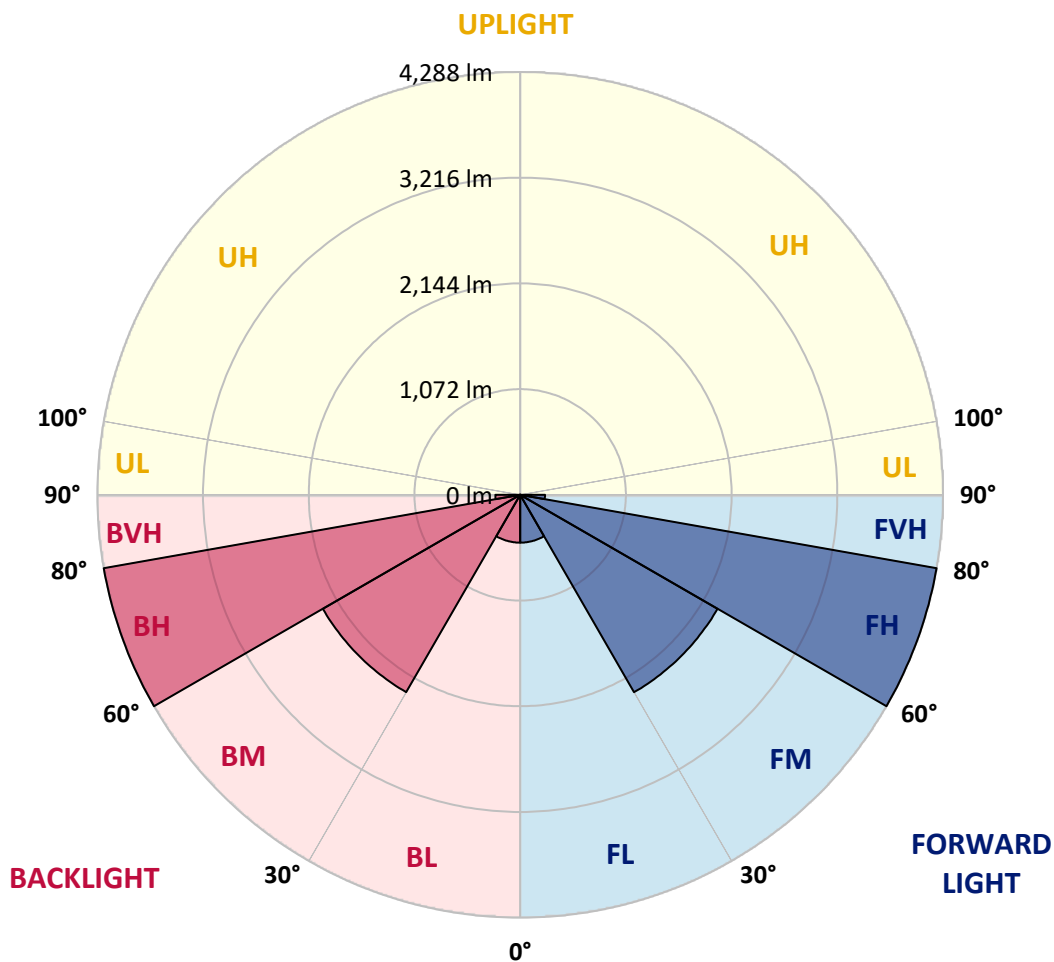
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.8	3.3			
FM (30°-60°)	2311.0	15.8			
FH (60°-80°)	4287.9	29.2			G2/5000
FVH (80°-90°)	251.8	1.7			G3/500
BL (0°-30°)	484.8	3.3	B1/500		
BM (30°-60°)	2311.0	15.8	B2/2500		
BH (60°-80°)	4287.9	29.2	B4/5000		G2/5000
BVH (80°-90°)	251.8	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°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2
2.5°	1198.1	1200.9	1195.3	1195.3	1195.3	1192.5	1195.3	1192.5	1195.3	1198.1	1198.1
5°	1186.9	1186.9	1181.3	1181.3	1181.3	1178.5	1181.3	1181.3	1184.1	1186.9	1186.9
7.5°	1161.8	1161.8	1159.0	1156.2	1153.4	1153.4	1156.2	1156.2	1159.0	1161.8	1161.8
10°	1147.8	1145.0	1139.4	1131.0	1128.2	1125.5	1131.0	1136.6	1145.0	1153.4	1150.6
12.5°	1142.2	1139.4	1128.2	1119.9	1114.3	1117.1	1122.7	1128.2	1142.2	1150.6	1147.8
15°	1147.8	1142.2	1128.2	1114.3	1117.1	1122.7	1128.2	1128.2	1145.0	1153.4	1153.4
17.5°	1147.8	1145.0	1128.2	1117.1	1119.9	1128.2	1131.0	1128.2	1142.2	1156.2	1156.2
20°	1150.6	1150.6	1128.2	1119.9	1122.7	1131.0	1133.8	1131.0	1142.2	1159.0	1159.0
22.5°	1156.2	1153.4	1131.0	1125.5	1131.0	1136.6	1139.4	1136.6	1147.8	1161.8	1164.5
25°	1167.3	1161.8	1142.2	1139.4	1150.6	1159.0	1159.0	1153.4	1159.0	1172.9	1172.9
27.5°	1181.3	1178.5	1156.2	1156.2	1170.1	1186.9	1178.5	1167.3	1172.9	1186.9	1186.9
30°	1206.4	1203.6	1181.3	1181.3	1200.9	1220.4	1200.9	1186.9	1195.3	1209.2	1212.0
32.5°	1242.7	1242.7	1223.2	1217.6	1251.1	1259.5	1251.1	1223.2	1228.8	1248.3	1248.3
35°	1304.2	1298.6	1279.0	1276.3	1309.8	1307.0	1304.2	1279.0	1284.6	1307.0	1307.0
37.5°	1385.2	1382.4	1365.6	1357.2	1374.0	1362.8	1368.4	1357.2	1371.2	1388.0	1390.8
40°	1488.5	1485.7	1471.7	1460.6	1466.2	1449.4	1455.0	1460.6	1474.5	1485.7	1488.5
42.5°	1617.0	1617.0	1603.0	1583.5	1575.1	1566.7	1566.7	1577.9	1591.8	1605.8	1605.8
45°	1776.1	1776.1	1759.4	1739.8	1714.7	1700.7	1706.3	1717.5	1734.3	1751.0	1756.6
47.5°	1963.3	1963.3	1940.9	1921.4	1896.2	1879.5	1879.5	1885.1	1910.2	1924.2	1932.5
50°	2172.7	2164.3	2142.0	2122.4	2108.5	2086.1	2088.9	2086.1	2108.5	2128.0	2133.6
52.5°	2390.5	2387.7	2365.4	2359.8	2368.2	2357.0	2357.0	2329.1	2337.5	2348.6	2345.9
55°	2661.4	2653.0	2633.5	2644.7	2678.2	2694.9	2689.4	2644.7	2619.5	2625.1	2622.3
57.5°	2957.5	2949.1	2943.5	2977.0	3052.4	3122.2	3108.3	3004.9	2957.5	2960.2	2963.0
60°	3259.1	3259.1	3275.8	3359.6	3521.6	3636.1	3594.2	3421.0	3337.3	3320.5	3314.9
62.5°	3569.0	3577.4	3613.7	3753.4	4001.9	4191.8	4085.7	3839.9	3714.3	3680.8	3669.6
65°	3929.3	3937.7	3990.7	4163.9	4493.4	4719.6	4538.1	4306.3	4130.4	4060.6	4049.4
67.5°	4451.5	4457.1	4499.0	4666.6	4976.6	5158.1	4971.0	4764.3	4574.4	4493.4	4487.8
70°	4920.7	4926.3	4962.6	5183.2	5468.1	5532.3	5325.6	5063.1	4864.9	4800.6	4789.4
72.5°	4814.6	4834.1	4954.2	5297.7	5736.2	5819.9	5384.3	4990.5	4672.2	4566.0	4532.5
75°	4038.2	4068.9	4258.8	4775.5	5473.7	5711.0	5038.0	4314.7	3839.9	3636.1	3583.0
77.5°	2357.0	2471.5	2798.3	3460.1	4457.1	4940.3	4149.9	3158.5	2359.8	2024.7	1913.0
80°	645.1	706.5	943.9	1591.8	2795.5	3460.1	2647.5	1449.4	782.0	586.5	544.6
82.5°	203.9	270.9	343.5	458.0	1097.5	1823.6	983.0	427.3	335.1	276.5	245.8
85°	108.9	117.3	192.7	223.4	329.5	511.1	304.4	223.4	201.1	148.0	139.6
87.5°	55.9	58.6	108.9	108.9	145.2	120.1	131.3	120.1	114.5	72.6	64.2
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)