

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: P265787

Luminaire Tested: **ARCH-M-AF48-80-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265787
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-AF48-80-D-U-5WQ-7027
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 535mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9916.9 lumens
Efficiency: N/A
Efficacy: 119.5 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): 83
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

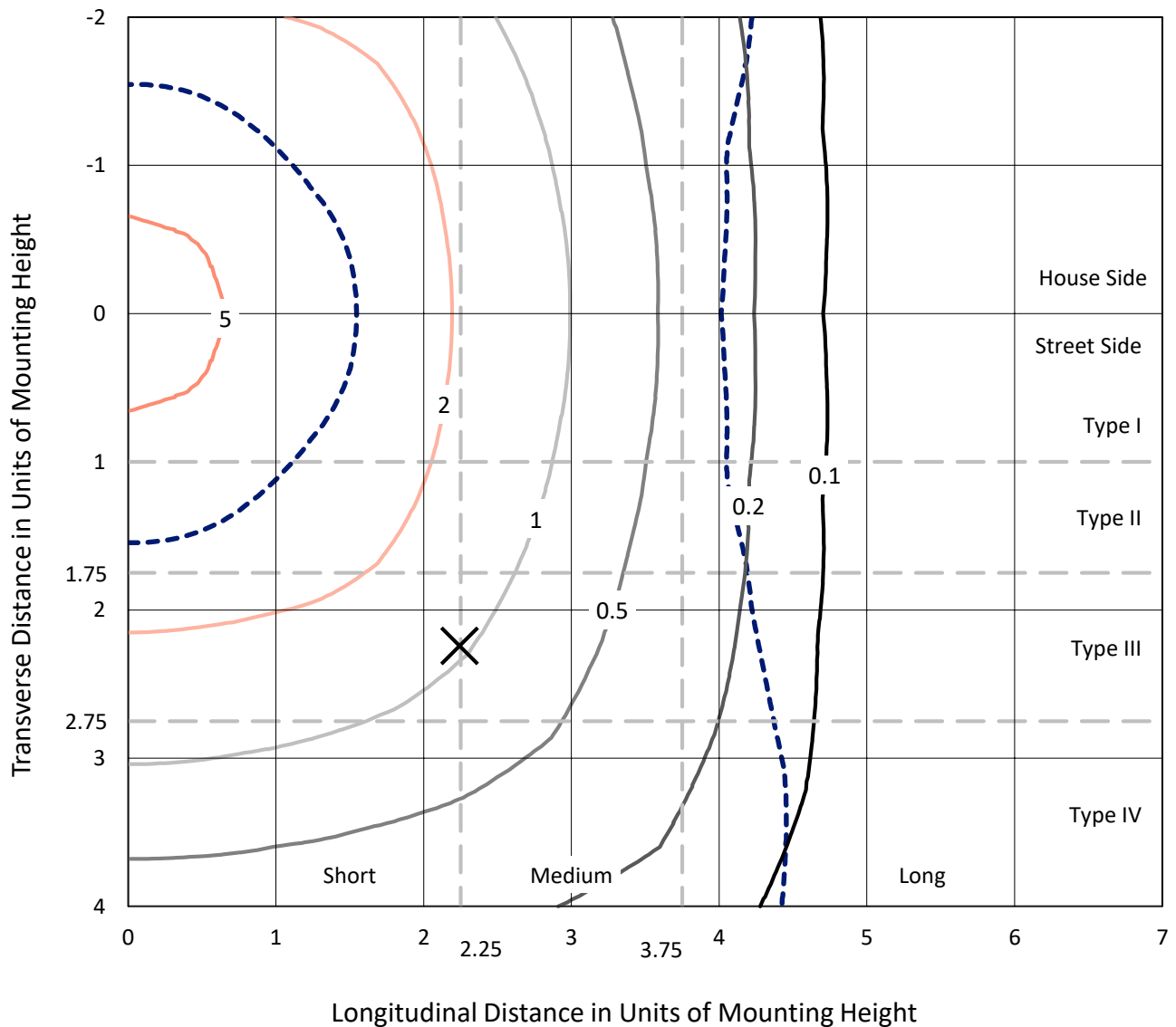


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

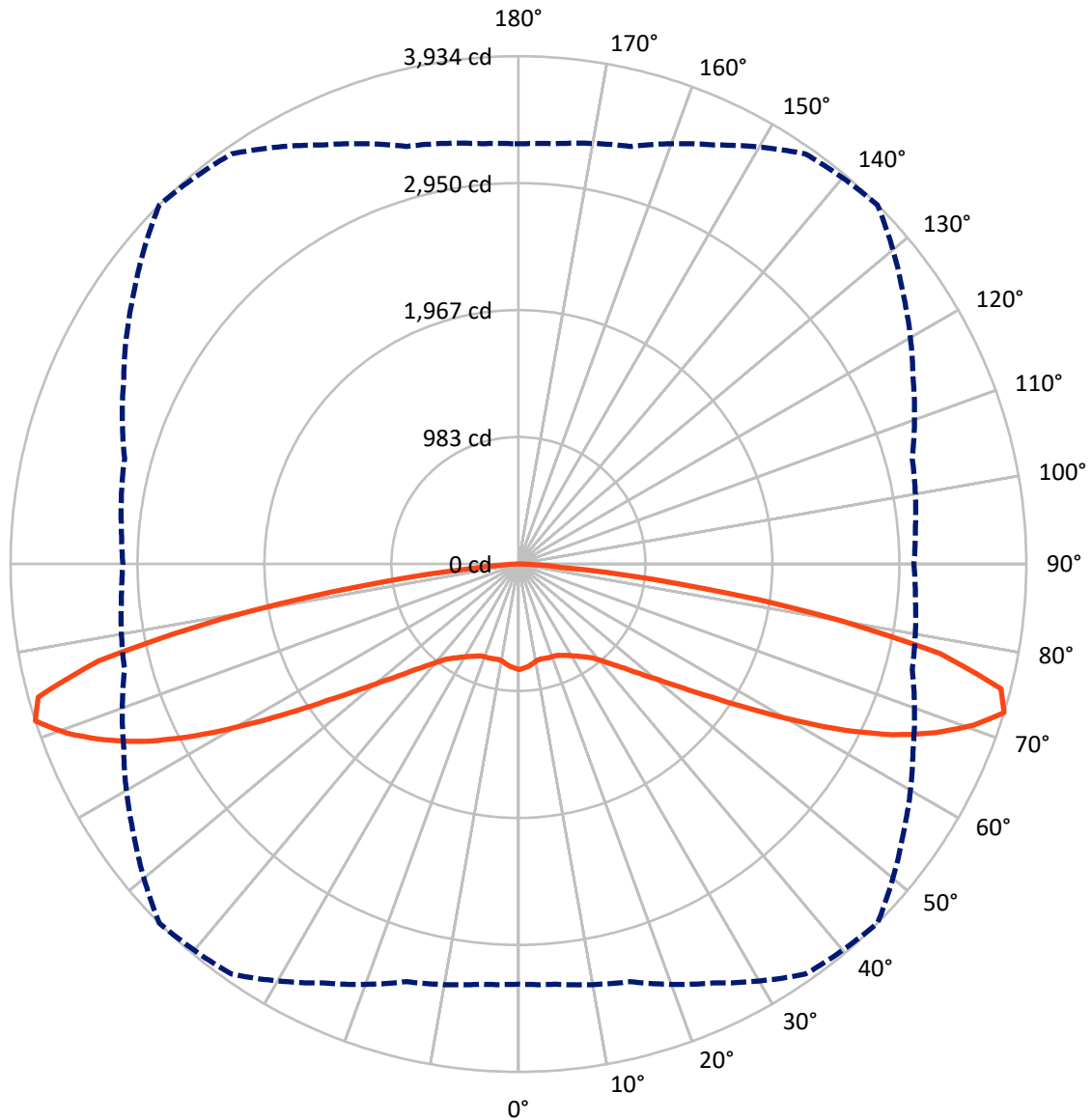


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type V - Short - Non-Cutoff

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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	4958.5	0.0	4958.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4958.5	0.0	4958.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9916.9	0.0	9916.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	0.8
10°-20°	217.0	2.2
20°-30°	363.1	3.7
30°-40°	558.0	5.6
40°-50°	923.9	9.3
50°-60°	1642.4	16.6
60°-70°	2873.4	29.0
70°-80°	2923.5	29.5
80°-90°	340.4	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°	9916.9	100.0
0°-180°	9916.9	100.0

Coefficient of Utilization



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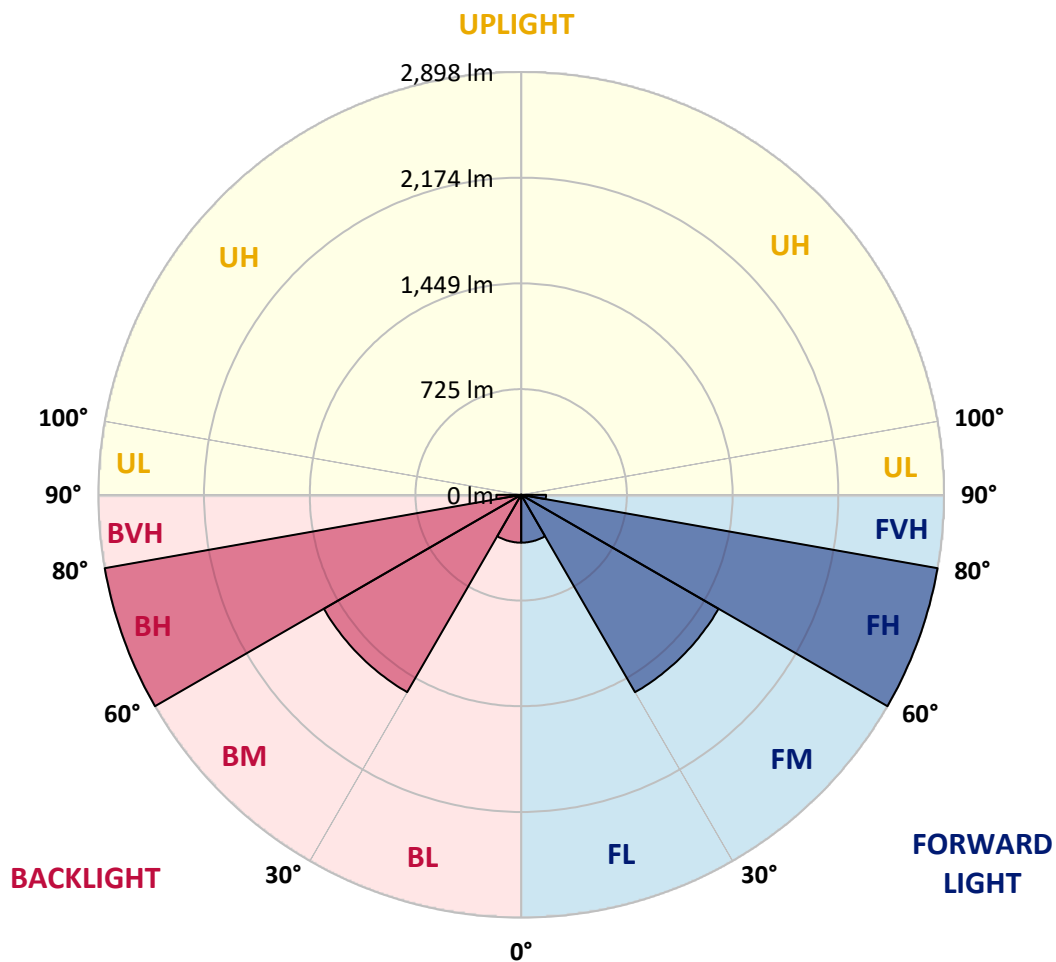
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	327.7	3.3			
FM	(30°-60°)	1562.1	15.8			
FH	(60°-80°)	2898.4	29.2			G2/5000
FVH	(80°-90°)	170.2	1.7			G2/225
BL	(0°-30°)	327.7	3.3	B1/500		
BM	(30°-60°)	1562.1	15.8	B2/2500		
BH	(60°-80°)	2898.4	29.2	B4/5000		G2/5000
BVH	(80°-90°)	170.2	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°	817.4	817.4	817.4	817.4	817.4	817.4	817.4	817.4	817.4	817.4	817.4
2.5°	809.8	811.7	807.9	807.9	807.9	806.0	807.9	806.0	807.9	809.8	809.8
5°	802.2	802.2	798.6	798.6	798.6	796.5	798.6	798.6	800.4	802.2	802.2
7.5°	785.3	785.3	783.4	781.5	779.5	779.5	781.5	781.5	783.4	785.3	785.3
10°	775.9	774.0	770.1	764.5	762.7	760.8	764.5	768.3	774.0	779.5	777.8
12.5°	772.1	770.1	762.7	757.0	753.1	755.0	758.9	762.7	772.1	777.8	775.9
15°	775.9	772.1	762.7	753.1	755.0	758.9	762.7	762.7	774.0	779.5	779.5
17.5°	775.9	774.0	762.7	755.0	757.0	762.7	764.5	762.7	772.1	781.5	781.5
20°	777.8	777.8	762.7	757.0	758.9	764.5	766.4	764.5	772.1	783.4	783.4
22.5°	781.5	779.5	764.5	760.8	764.5	768.3	770.1	768.3	775.9	785.3	787.2
25°	789.2	785.3	772.1	770.1	777.8	783.4	783.4	779.5	783.4	792.8	792.8
27.5°	798.6	796.5	781.5	781.5	791.0	802.2	796.5	789.2	792.8	802.2	802.2
30°	815.5	813.7	798.6	798.6	811.7	825.0	811.7	802.2	807.9	817.4	819.3
32.5°	840.0	840.0	826.8	823.0	845.8	851.4	845.8	826.8	830.7	843.8	843.8
35°	881.5	877.9	864.6	862.7	885.3	883.5	881.5	864.6	868.3	883.5	883.5
37.5°	936.4	934.4	923.1	917.3	928.8	921.2	925.0	917.3	927.0	938.2	940.0
40°	1006.1	1004.2	994.9	987.2	991.1	979.7	983.6	987.2	996.7	1004.2	1006.1
42.5°	1093.0	1093.0	1083.5	1070.3	1064.8	1059.0	1059.0	1066.6	1076.0	1085.4	1085.4
45°	1200.6	1200.6	1189.3	1176.1	1159.1	1149.7	1153.5	1161.0	1172.3	1183.5	1187.4
47.5°	1327.1	1327.1	1312.0	1298.8	1281.7	1270.5	1270.5	1274.2	1291.3	1300.7	1306.2
50°	1468.6	1463.0	1447.9	1434.7	1425.3	1410.1	1412.0	1410.1	1425.3	1438.5	1442.1
52.5°	1616.0	1614.1	1599.0	1595.1	1600.8	1593.2	1593.2	1574.4	1579.9	1587.6	1585.7
55°	1798.9	1793.3	1780.1	1787.6	1810.4	1821.7	1817.9	1787.6	1770.6	1774.4	1772.5
57.5°	1999.1	1993.3	1989.7	2012.4	2063.2	2110.5	2101.0	2031.2	1999.1	2001.0	2003.0
60°	2203.0	2203.0	2214.3	2270.9	2380.4	2457.9	2429.5	2312.4	2255.9	2244.4	2240.7
62.5°	2412.5	2418.1	2442.8	2537.2	2705.1	2833.4	2761.7	2595.7	2510.7	2488.0	2480.5
65°	2656.0	2661.7	2697.5	2814.6	3037.3	3190.2	3067.5	2910.9	2791.9	2744.7	2737.1
67.5°	3009.1	3012.7	3041.1	3154.4	3364.0	3486.6	3360.1	3220.5	3092.1	3037.3	3033.5
70°	3326.2	3329.9	3354.5	3503.6	3696.2	3739.6	3599.9	3422.5	3288.4	3244.9	3237.4
72.5°	3254.4	3267.7	3348.8	3581.1	3877.4	3933.9	3639.6	3373.3	3158.1	3086.4	3063.8
75°	2729.6	2750.4	2878.8	3228.0	3699.8	3860.3	3405.5	2916.5	2595.7	2457.9	2421.9
77.5°	1593.2	1670.7	1891.6	2338.8	3012.7	3339.4	2805.1	2135.0	1595.1	1368.6	1293.1
80°	436.0	477.5	638.1	1076.0	1889.7	2338.8	1789.6	979.7	528.6	396.4	368.1
82.5°	137.8	183.2	232.2	309.6	741.9	1232.7	664.4	288.9	226.6	186.8	166.1
85°	73.7	79.3	130.3	151.1	222.8	345.5	205.7	151.1	136.0	100.0	94.4
87.5°	37.8	39.6	73.7	73.7	98.2	81.1	88.8	81.1	77.4	49.0	43.4
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)