

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: P230961

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230961
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
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 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: 10440.2 lumens
Efficiency: N/A
Efficacy: 143.0 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 - 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

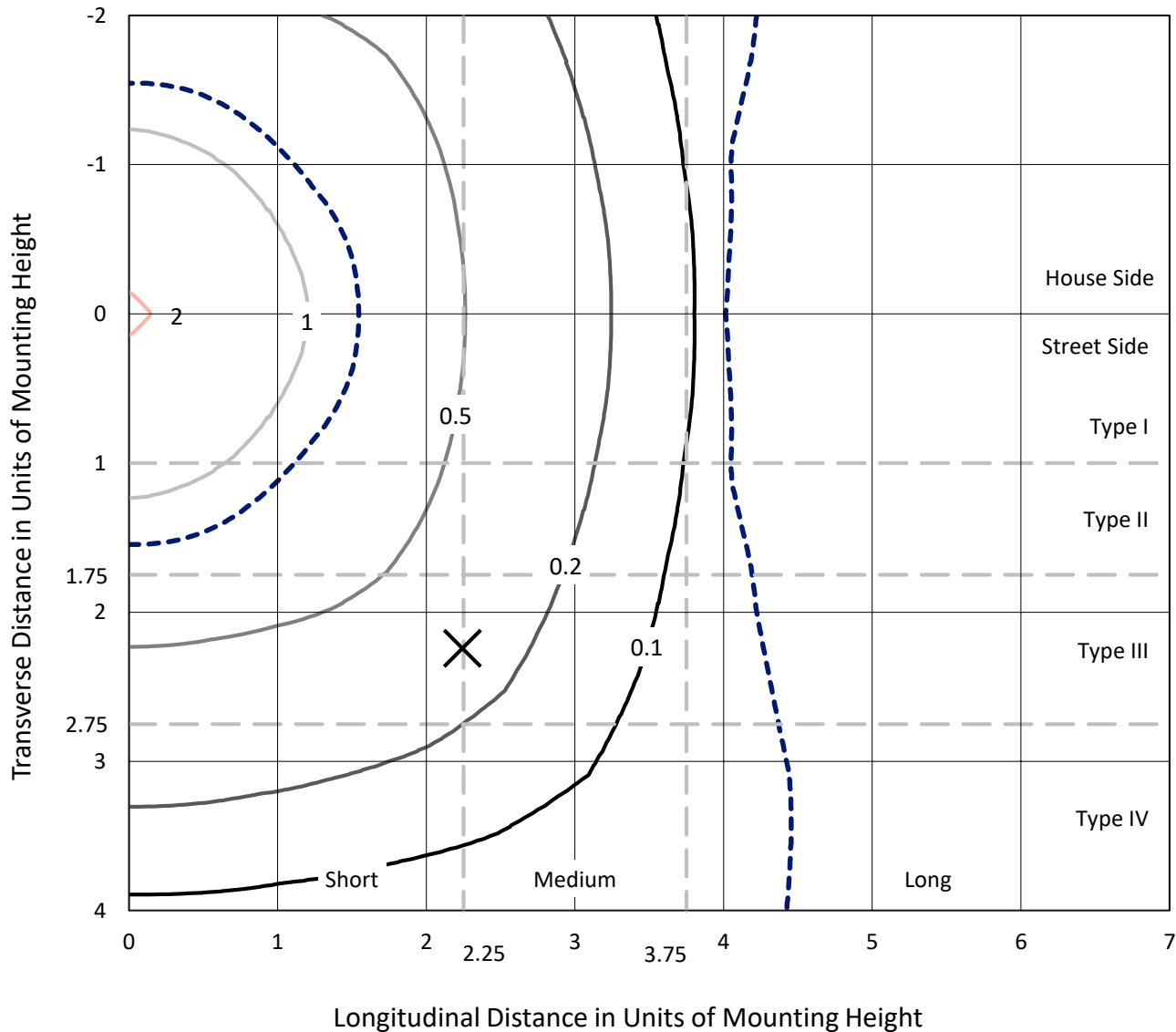


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

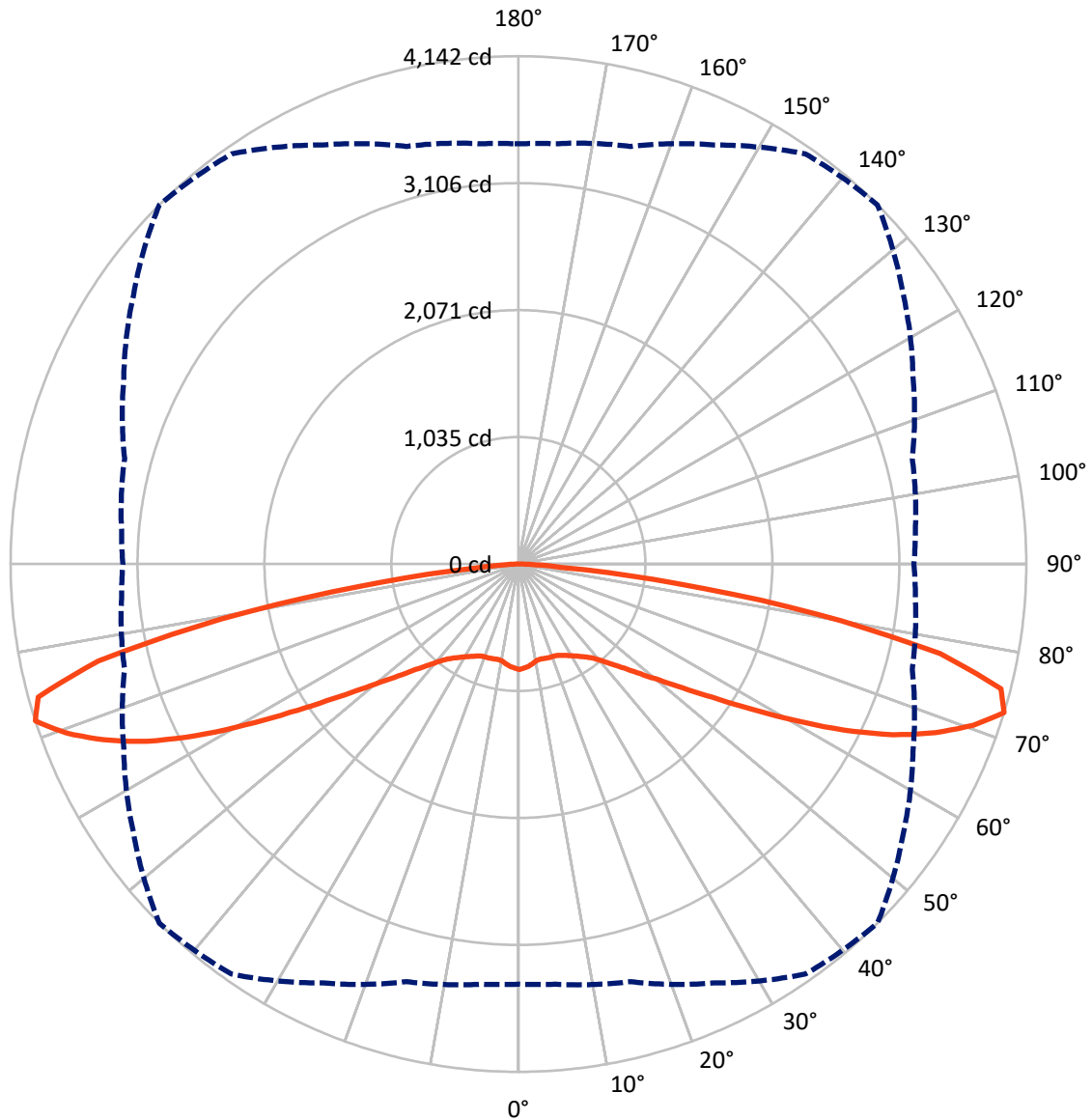


Based on 20 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Non-Cutoff

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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	5220.1	0.0	5220.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5220.1	0.0	5220.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	10440.2	0.0	10440.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	0.8
10°-20°	228.5	2.2
20°-30°	382.3	3.7
30°-40°	587.4	5.6
40°-50°	972.6	9.3
50°-60°	1729.1	16.6
60°-70°	3025.0	29.0
70°-80°	3077.7	29.5
80°-90°	358.4	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°	10440.2	100.0
0°-180°	10440.2	100.0



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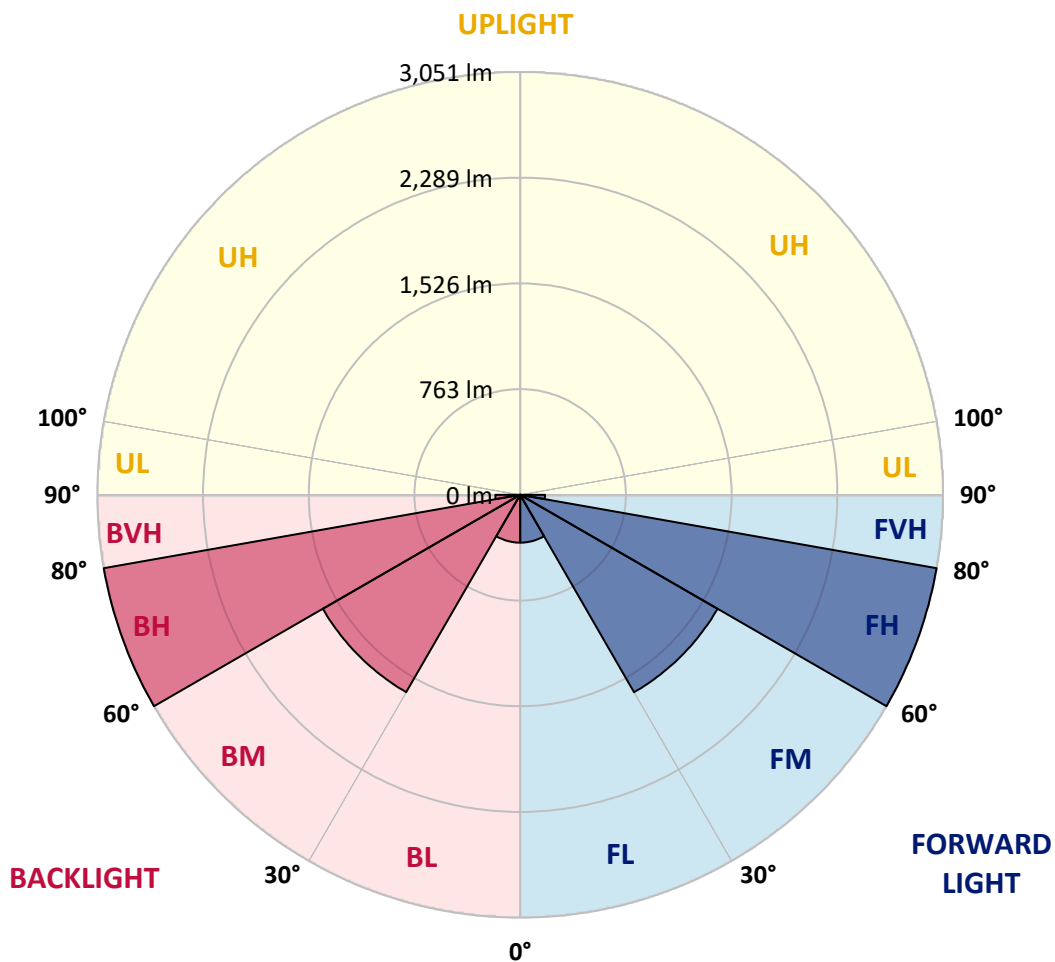
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	345.0	3.3			
FM	(30°-60°)	1644.6	15.8			
FH	(60°-80°)	3051.4	29.2			G2/5000
FVH	(80°-90°)	179.2	1.7			G2/225
BL	(0°-30°)	345.0	3.3	B1/500		
BM	(30°-60°)	1644.6	15.8	B2/2500		
BH	(60°-80°)	3051.4	29.2	B4/5000		G2/5000
BVH	(80°-90°)	179.2	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°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5
2.5°	852.5	854.6	850.6	850.6	850.6	848.6	850.6	848.6	850.6	852.5	852.5
5°	844.7	844.7	840.7	840.7	840.7	838.6	840.7	840.7	842.6	844.7	844.7
7.5°	826.7	826.7	824.7	822.8	820.8	820.8	822.8	822.8	824.7	826.7	826.7
10°	816.8	814.8	810.8	804.9	802.9	800.9	804.9	808.8	814.8	820.8	818.8
12.5°	812.8	810.8	802.9	796.9	793.0	794.9	798.9	802.9	812.8	818.8	816.8
15°	816.8	812.8	802.9	793.0	794.9	798.9	802.9	802.9	814.8	820.8	820.8
17.5°	816.8	814.8	802.9	794.9	796.9	802.9	804.9	802.9	812.8	822.8	822.8
20°	818.8	818.8	802.9	796.9	798.9	804.9	806.9	804.9	812.8	824.7	824.7
22.5°	822.8	820.8	804.9	800.9	804.9	808.8	810.8	808.8	816.8	826.7	828.7
25°	830.7	826.7	812.8	810.8	818.8	824.7	824.7	820.8	824.7	834.7	834.7
27.5°	840.7	838.6	822.8	822.8	832.7	844.7	838.6	830.7	834.7	844.7	844.7
30°	858.6	856.5	840.7	840.7	854.6	868.5	854.6	844.7	850.6	860.5	862.6
32.5°	884.3	884.3	870.4	866.4	890.4	896.3	890.4	870.4	874.4	888.3	888.3
35°	928.1	924.1	910.2	908.2	932.1	930.1	928.1	910.2	914.2	930.1	930.1
37.5°	985.7	983.8	971.8	965.9	977.7	969.9	973.7	965.9	975.8	987.7	989.7
40°	1059.3	1057.2	1047.3	1039.4	1043.3	1031.4	1035.4	1039.4	1049.3	1057.2	1059.3
42.5°	1150.7	1150.7	1140.7	1126.8	1120.8	1114.9	1114.9	1122.9	1132.8	1142.7	1142.7
45°	1264.0	1264.0	1252.0	1238.1	1220.2	1210.3	1214.2	1222.2	1234.1	1246.1	1250.0
47.5°	1397.1	1397.1	1381.2	1367.3	1349.4	1337.5	1337.5	1341.5	1359.3	1369.3	1375.3
50°	1546.2	1540.2	1524.3	1510.4	1500.5	1484.5	1486.6	1484.5	1500.5	1514.4	1518.4
52.5°	1701.2	1699.2	1683.3	1679.3	1685.3	1677.3	1677.3	1657.5	1663.4	1671.4	1669.4
55°	1893.9	1888.0	1874.0	1882.0	1905.9	1917.8	1913.8	1882.0	1864.1	1868.1	1866.1
57.5°	2104.6	2098.6	2094.7	2118.5	2172.1	2221.8	2211.9	2138.4	2104.6	2106.6	2108.6
60°	2319.2	2319.2	2331.1	2390.7	2506.0	2587.6	2557.7	2434.5	2374.9	2362.9	2358.9
62.5°	2539.8	2545.8	2571.6	2671.0	2847.9	2983.0	2907.4	2732.6	2643.2	2619.3	2611.4
65°	2796.2	2802.2	2839.9	2963.1	3197.6	3358.7	3229.5	3064.5	2939.2	2889.6	2881.7
67.5°	3167.8	3171.8	3201.6	3320.8	3541.5	3670.7	3537.5	3390.4	3255.2	3197.6	3193.7
70°	3501.7	3505.7	3531.5	3688.5	3891.2	3936.9	3789.8	3603.0	3462.0	3416.2	3408.3
72.5°	3426.2	3440.1	3525.5	3770.0	4082.0	4141.6	3831.6	3551.4	3324.8	3249.3	3225.5
75°	2873.7	2895.6	3030.7	3398.3	3895.2	4064.1	3585.1	3070.5	2732.6	2587.6	2549.8
77.5°	1677.3	1758.8	1991.3	2462.3	3171.8	3515.6	2953.2	2247.7	1679.3	1440.8	1361.3
80°	459.1	502.8	671.8	1132.8	1989.3	2462.3	1884.0	1031.4	556.5	417.4	387.5
82.5°	145.1	192.7	244.5	325.9	781.0	1297.7	699.5	304.0	238.4	196.7	174.9
85°	77.5	83.5	137.1	159.0	234.5	363.7	216.7	159.0	143.1	105.4	99.3
87.5°	39.8	41.7	77.5	77.5	103.3	85.4	93.4	85.4	81.5	51.7	45.7
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)