

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: P230972

Luminaire Tested: **ARCH-M-AF48-50-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230972
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-AF48-50-D-U-5WQ
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 305mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7078.8 lumens
Efficiency: N/A
Efficacy: 147.5 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): 48
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

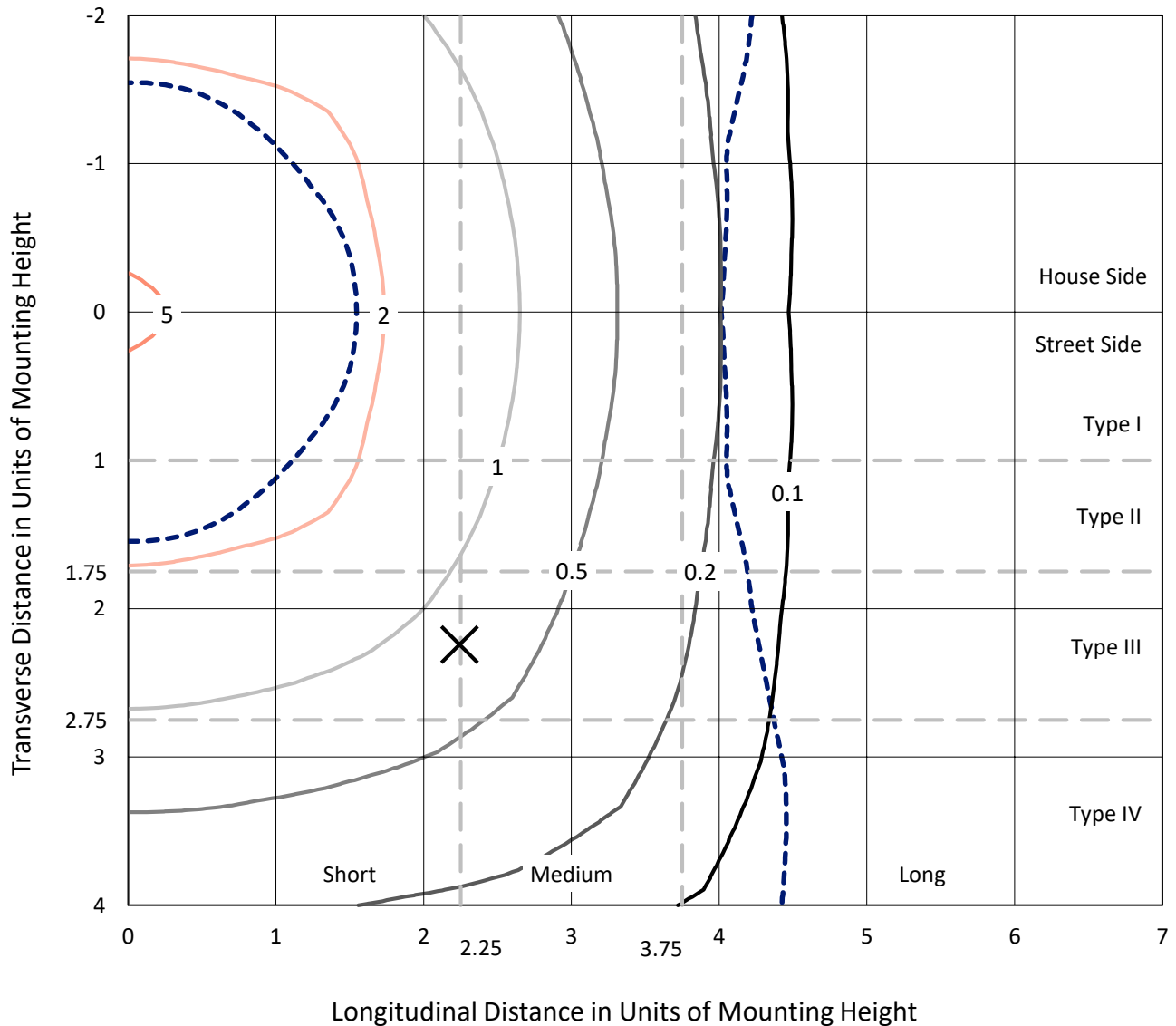


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

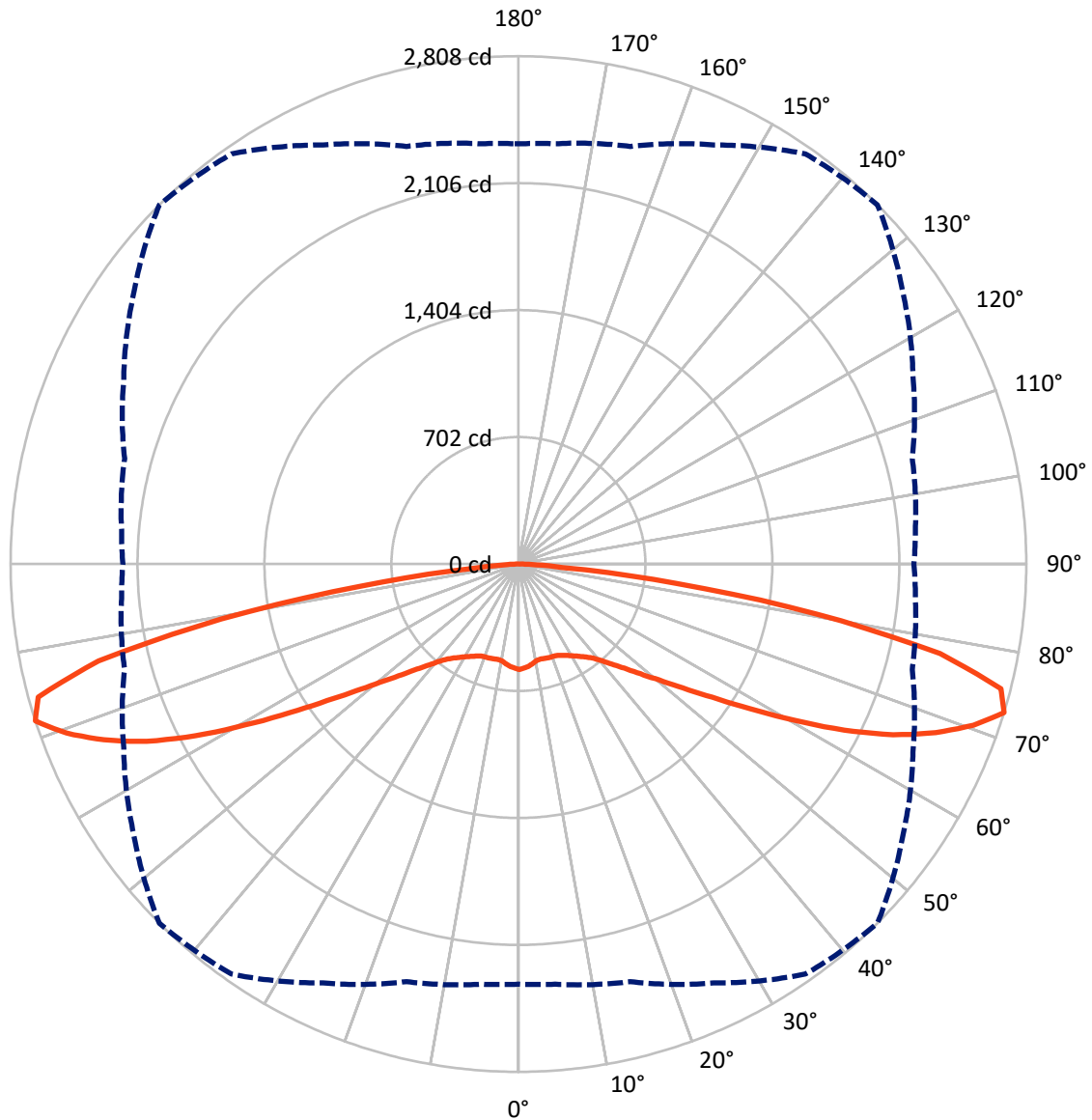


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - Non-Cutoff

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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	3539.4	0.0	3539.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3539.4	0.0	3539.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	7078.8	0.0	7078.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	0.8
10°-20°	154.9	2.2
20°-30°	259.2	3.7
30°-40°	398.3	5.6
40°-50°	659.5	9.3
50°-60°	1172.4	16.6
60°-70°	2051.1	29.0
70°-80°	2086.8	29.5
80°-90°	243.0	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°	7078.8	100.0
0°-180°	7078.8	100.0



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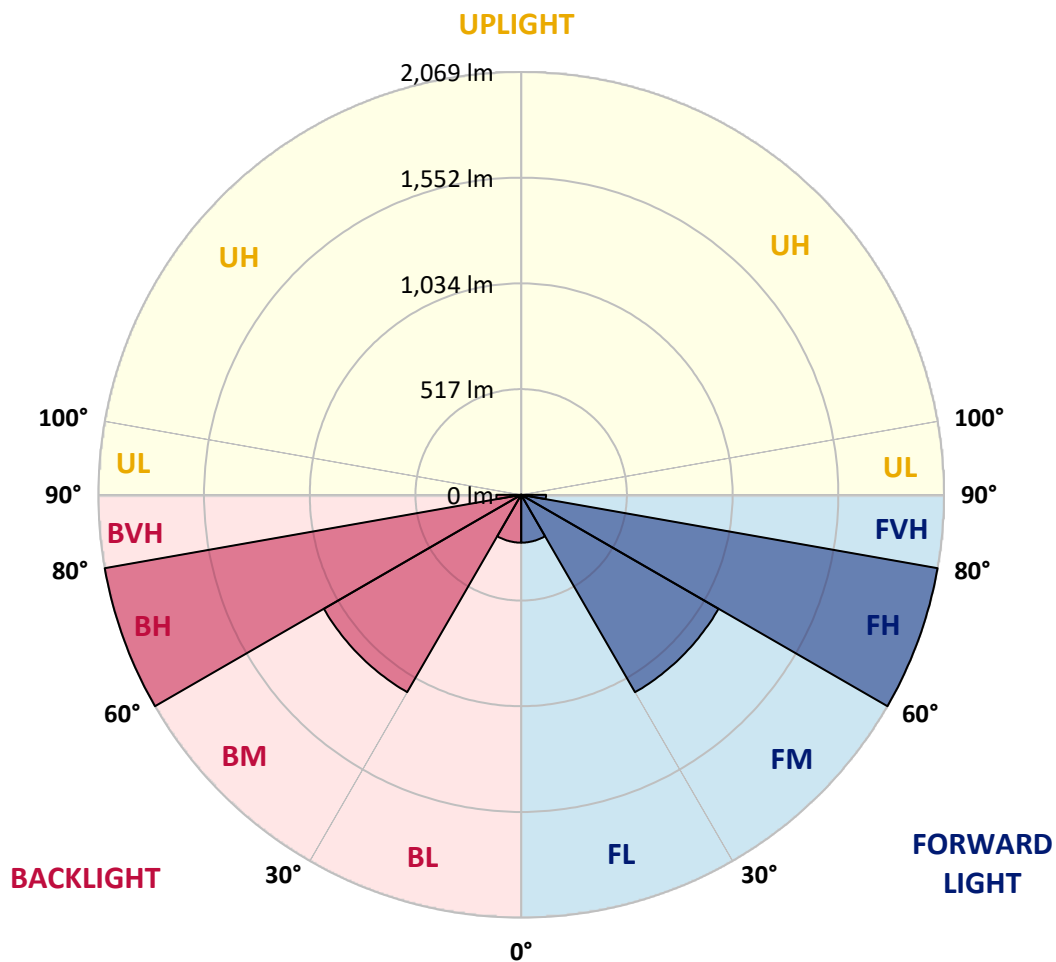
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	233.9	3.3			
FM (30°-60°)	1115.1	15.8			
FH (60°-80°)	2068.9	29.2			G2/5000
FVH (80°-90°)	121.5	1.7			G2/225
BL (0°-30°)	233.9	3.3	B1/500		
BM (30°-60°)	1115.1	15.8	B2/2500		
BH (60°-80°)	2068.9	29.2	B3/2500		G2/5000
BVH (80°-90°)	121.5	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°	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5
2.5°	578.1	579.4	576.7	576.7	576.7	575.4	576.7	575.4	576.7	578.1	578.1
5°	572.6	572.6	570.0	570.0	570.0	568.7	570.0	570.0	571.3	572.6	572.6
7.5°	560.6	560.6	559.2	557.8	556.5	556.5	557.8	557.8	559.2	560.6	560.6
10°	553.8	552.5	549.7	545.7	544.4	543.1	545.7	548.4	552.5	556.5	555.2
12.5°	551.2	549.7	544.4	540.3	537.7	539.0	541.7	544.4	551.2	555.2	553.8
15°	553.8	551.2	544.4	537.7	539.0	541.7	544.4	544.4	552.5	556.5	556.5
17.5°	553.8	552.5	544.4	539.0	540.3	544.4	545.7	544.4	551.2	557.8	557.8
20°	555.2	555.2	544.4	540.3	541.7	545.7	547.1	545.7	551.2	559.2	559.2
22.5°	557.8	556.5	545.7	543.1	545.7	548.4	549.7	548.4	553.8	560.6	561.9
25°	563.2	560.6	551.2	549.7	555.2	559.2	559.2	556.5	559.2	565.9	565.9
27.5°	570.0	568.7	557.8	557.8	564.6	572.6	568.7	563.2	565.9	572.6	572.6
30°	582.2	580.7	570.0	570.0	579.4	588.8	579.4	572.6	576.7	583.5	584.8
32.5°	599.7	599.7	590.2	587.5	603.6	607.7	603.6	590.2	592.9	602.3	602.3
35°	629.3	626.6	617.1	615.8	632.0	630.6	629.3	617.1	619.8	630.6	630.6
37.5°	668.4	667.0	658.9	654.9	663.0	657.6	660.3	654.9	661.6	669.7	671.1
40°	718.2	716.9	710.1	704.7	707.5	699.4	702.1	704.7	711.5	716.9	718.2
42.5°	780.2	780.2	773.5	764.0	760.0	756.0	756.0	761.3	768.0	774.8	774.8
45°	857.0	857.0	848.9	839.4	827.4	820.6	823.3	828.7	836.8	844.9	847.5
47.5°	947.3	947.3	936.5	927.1	914.9	906.8	906.8	909.5	921.7	928.4	932.4
50°	1048.3	1044.3	1033.5	1024.1	1017.3	1006.6	1007.9	1006.6	1017.3	1026.7	1029.5
52.5°	1153.5	1152.0	1141.3	1138.6	1142.6	1137.3	1137.3	1123.8	1127.8	1133.2	1131.9
55°	1284.1	1280.1	1270.7	1276.0	1292.2	1300.3	1297.6	1276.0	1264.0	1266.6	1265.3
57.5°	1427.0	1422.9	1420.3	1436.4	1472.8	1506.5	1499.7	1449.9	1427.0	1428.3	1429.7
60°	1572.5	1572.5	1580.6	1621.1	1699.2	1754.5	1734.2	1650.6	1610.2	1602.1	1599.5
62.5°	1722.0	1726.1	1743.6	1811.0	1930.9	2022.6	1971.3	1852.8	1792.1	1775.9	1770.6
65°	1895.9	1899.9	1925.5	2009.1	2168.1	2277.3	2189.6	2077.8	1992.9	1959.3	1953.8
67.5°	2147.9	2150.5	2170.8	2251.6	2401.2	2488.8	2398.5	2298.8	2207.2	2168.1	2165.4
70°	2374.3	2376.9	2394.5	2500.9	2638.4	2669.4	2569.7	2443.0	2347.3	2316.4	2310.9
72.5°	2323.0	2332.5	2390.4	2556.1	2767.7	2808.1	2598.0	2407.9	2254.4	2203.1	2187.0
75°	1948.4	1963.2	2054.9	2304.2	2641.1	2755.6	2430.8	2081.8	1852.8	1754.5	1728.8
77.5°	1137.3	1192.6	1350.2	1669.6	2150.5	2383.7	2002.3	1524.0	1138.6	976.9	923.0
80°	311.3	340.9	455.4	768.0	1348.9	1669.6	1277.5	699.4	377.3	282.9	262.8
82.5°	98.4	130.7	165.7	221.0	529.6	879.9	474.3	206.1	161.7	133.4	118.6
85°	52.6	56.6	93.0	107.8	159.0	246.6	146.9	107.8	97.0	71.4	67.4
87.5°	26.9	28.3	52.6	52.6	70.1	57.9	63.3	57.9	55.2	35.0	31.0
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)