

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: P234768

Luminaire Tested: **ARCH-M-AF48-60-D-U-5WQ-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234768
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-AF48-60-D-U-5WQ-8027
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 405mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6957 lumens
Efficiency: N/A
Efficacy: 110.4 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): 63
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

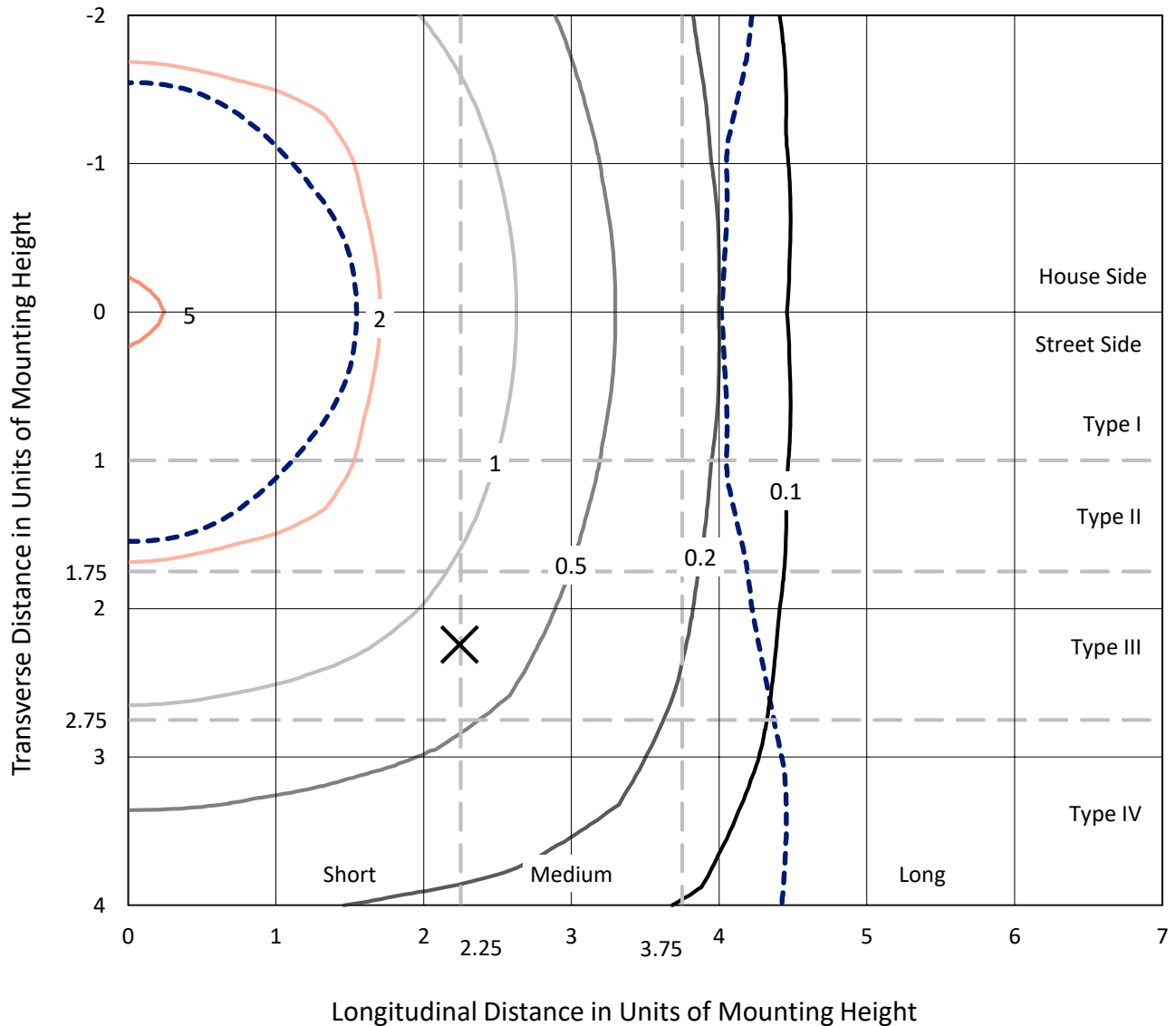


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

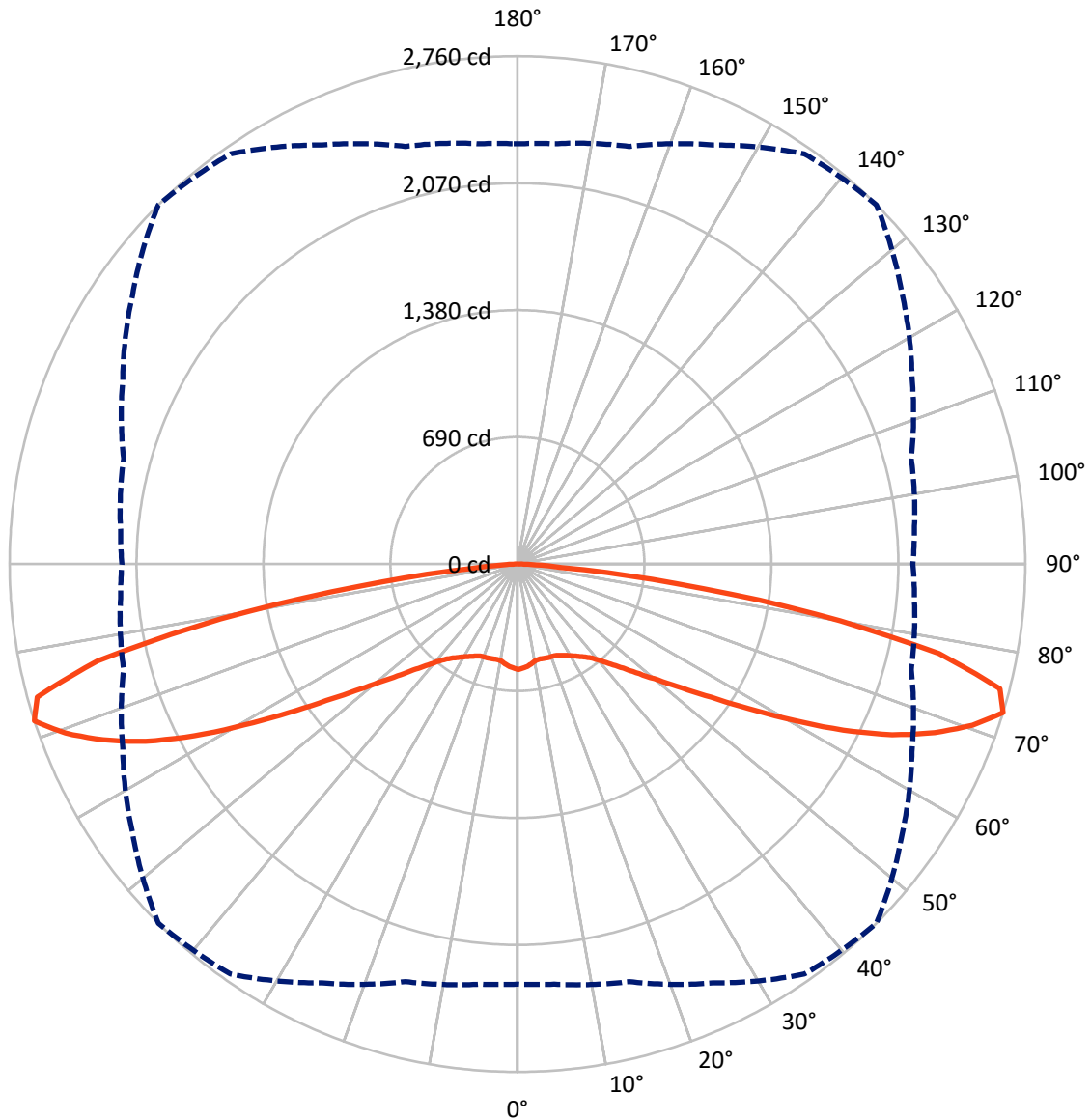


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - Non-Cutoff

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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	3478.5	0.0	3478.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3478.5	0.0	3478.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6957.0	0.0	6957.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	0.8
10°-20°	152.2	2.2
20°-30°	254.8	3.7
30°-40°	391.4	5.6
40°-50°	648.1	9.3
50°-60°	1152.2	16.6
60°-70°	2015.8	29.0
70°-80°	2050.9	29.5
80°-90°	238.8	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°	6957.0	100.0
0°-180°	6957.0	100.0



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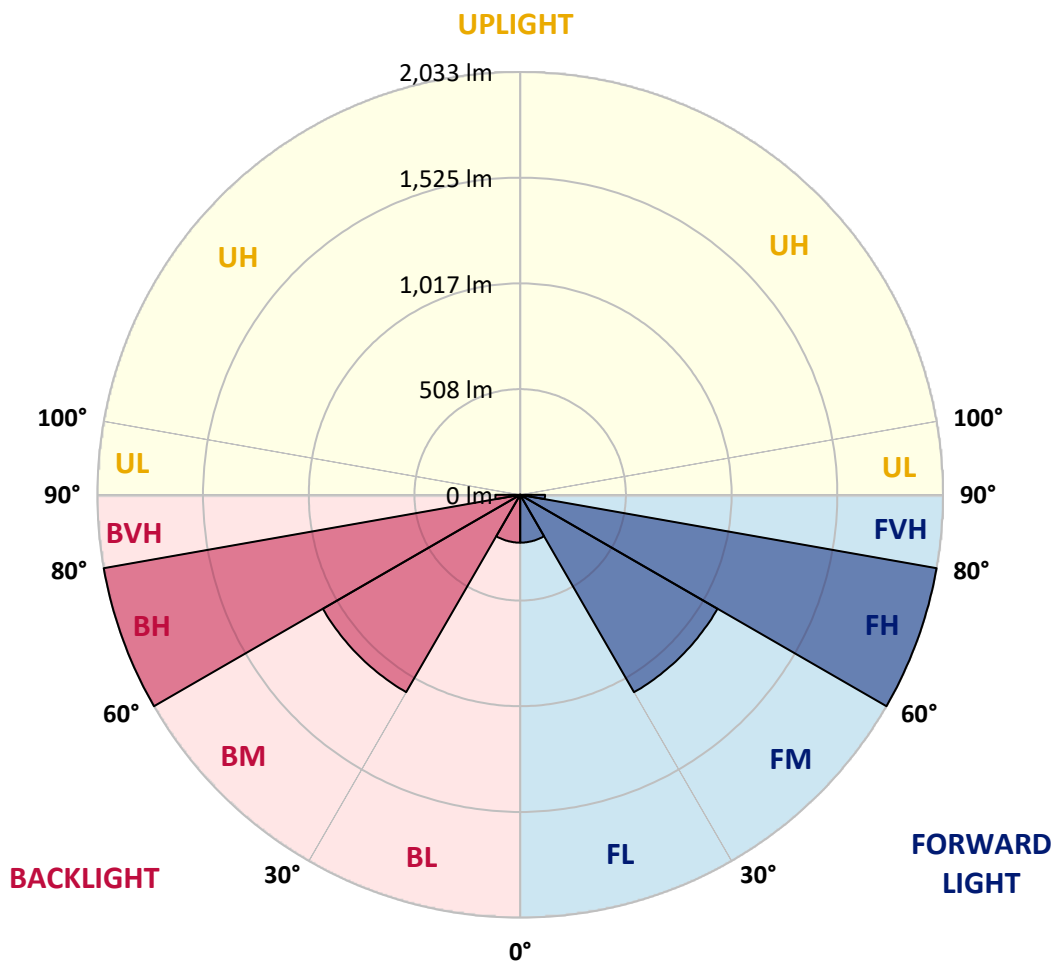
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	229.9	3.3			
FM	(30°-60°)	1095.9	15.8			
FH	(60°-80°)	2033.3	29.2			G2/5000
FVH	(80°-90°)	119.4	1.7			G2/225
BL	(0°-30°)	229.9	3.3	B1/500		
BM	(30°-60°)	1095.9	15.8	B2/2500		
BH	(60°-80°)	2033.3	29.2	B3/2500		G2/5000
BVH	(80°-90°)	119.4	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°	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4
2.5°	568.1	569.4	566.8	566.8	566.8	565.5	566.8	565.5	566.8	568.1	568.1
5°	562.8	562.8	560.2	560.2	560.2	558.9	560.2	560.2	561.5	562.8	562.8
7.5°	550.9	550.9	549.6	548.3	546.9	546.9	548.3	548.3	549.6	550.9	550.9
10°	544.3	543.0	540.3	536.3	535.0	533.7	536.3	539.0	543.0	546.9	545.6
12.5°	541.6	540.3	535.0	531.0	528.4	529.7	532.4	535.0	541.6	545.6	544.3
15°	544.3	541.6	535.0	528.4	529.7	532.4	535.0	535.0	543.0	546.9	546.9
17.5°	544.3	543.0	535.0	529.7	531.0	535.0	536.3	535.0	541.6	548.3	548.3
20°	545.6	545.6	535.0	531.0	532.4	536.3	537.7	536.3	541.6	549.6	549.6
22.5°	548.3	546.9	536.3	533.7	536.3	539.0	540.3	539.0	544.3	550.9	552.2
25°	553.6	550.9	541.6	540.3	545.6	549.6	549.6	546.9	549.6	556.2	556.2
27.5°	560.2	558.9	548.3	548.3	554.9	562.8	558.9	553.6	556.2	562.8	562.8
30°	572.1	570.8	560.2	560.2	569.4	578.7	569.4	562.8	566.8	573.4	574.7
32.5°	589.3	589.3	580.0	577.4	593.3	597.3	593.3	580.0	582.7	592.0	592.0
35°	618.4	615.8	606.5	605.2	621.1	619.8	618.4	606.5	609.2	619.8	619.8
37.5°	656.8	655.5	647.6	643.6	651.6	646.3	648.9	643.6	650.2	658.2	659.5
40°	705.8	704.5	697.9	692.6	695.3	687.3	690.0	692.6	699.2	704.5	705.8
42.5°	766.8	766.8	760.1	750.9	746.9	742.9	742.9	748.2	754.8	761.5	761.5
45°	842.2	842.2	834.3	825.0	813.1	806.5	809.1	814.4	822.4	830.3	833.0
47.5°	931.0	931.0	920.4	911.1	899.2	891.2	891.2	893.9	905.8	912.4	916.4
50°	1030.3	1026.3	1015.7	1006.5	999.8	989.2	990.6	989.2	999.8	1009.1	1011.8
52.5°	1133.6	1132.3	1121.7	1119.0	1123.0	1117.7	1117.7	1104.5	1108.4	1113.7	1112.4
55°	1262.1	1258.1	1248.8	1254.1	1270.0	1277.9	1275.3	1254.1	1242.2	1244.8	1243.5
57.5°	1402.4	1398.5	1395.8	1411.7	1447.5	1480.6	1473.9	1424.9	1402.4	1403.7	1405.1
60°	1545.4	1545.4	1553.4	1593.1	1669.9	1724.2	1704.4	1622.3	1582.5	1574.6	1571.9
62.5°	1692.4	1696.4	1713.6	1779.8	1897.7	1987.8	1937.4	1820.9	1761.3	1745.4	1740.1
65°	1863.3	1867.3	1892.4	1974.5	2130.8	2238.1	2152.0	2042.1	1958.6	1925.5	1920.2
67.5°	2110.9	2113.6	2133.4	2212.9	2359.9	2446.0	2357.2	2259.2	2169.2	2130.8	2128.1
70°	2333.4	2336.1	2353.3	2457.9	2593.0	2623.4	2525.4	2400.9	2306.9	2276.5	2271.2
72.5°	2283.1	2292.3	2349.3	2512.2	2720.1	2759.8	2553.2	2366.5	2215.5	2165.2	2149.3
75°	1914.9	1929.5	2019.5	2264.5	2595.6	2708.2	2389.0	2046.0	1820.9	1724.2	1699.1
77.5°	1117.7	1172.0	1326.9	1640.8	2113.6	2342.7	1967.9	1497.8	1119.0	960.1	907.1
80°	305.9	335.0	447.6	754.8	1325.6	1640.8	1255.4	687.3	370.8	278.1	258.2
82.5°	96.7	128.5	162.9	217.2	520.4	864.8	466.2	202.6	158.9	131.1	116.5
85°	51.6	55.6	91.4	105.9	156.3	242.3	144.3	105.9	95.3	70.2	66.2
87.5°	26.5	27.8	51.6	51.6	68.9	56.9	62.2	56.9	54.3	34.4	30.5
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)