

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: P234680

Luminaire Tested: **ARCH-AF24-90-D-U-5WQ-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234680
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-AF24-90-D-U-5WQ-8027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7793 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 94
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

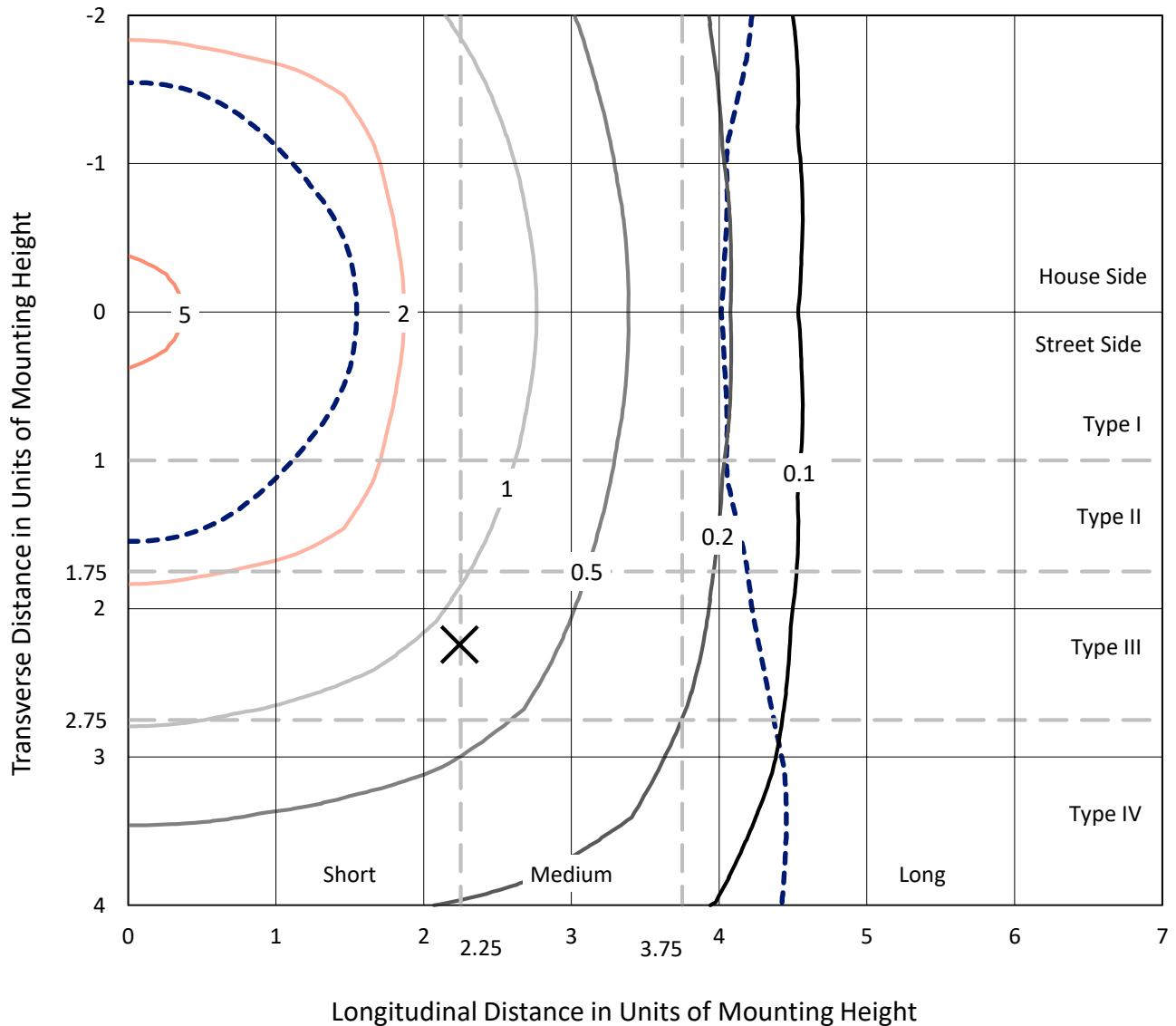


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

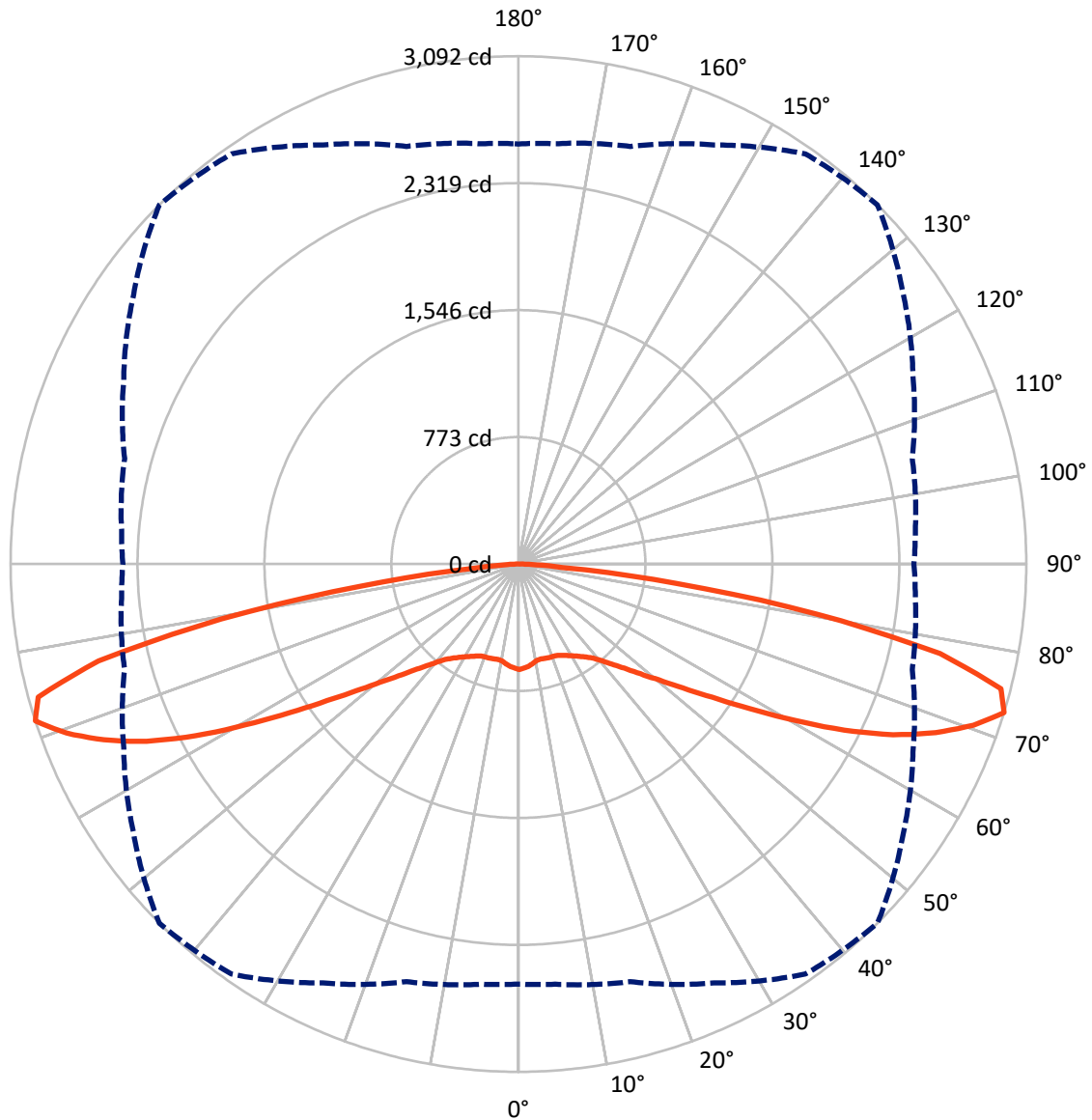


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - Non-Cutoff

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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	3896.5	0.0	3896.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3896.5	0.0	3896.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7793.0	0.0	7793.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	0.8
10°-20°	170.5	2.2
20°-30°	285.4	3.7
30°-40°	438.5	5.6
40°-50°	726.0	9.3
50°-60°	1290.7	16.6
60°-70°	2258.0	29.0
70°-80°	2297.4	29.5
80°-90°	267.5	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°	7793.0	100.0
0°-180°	7793.0	100.0



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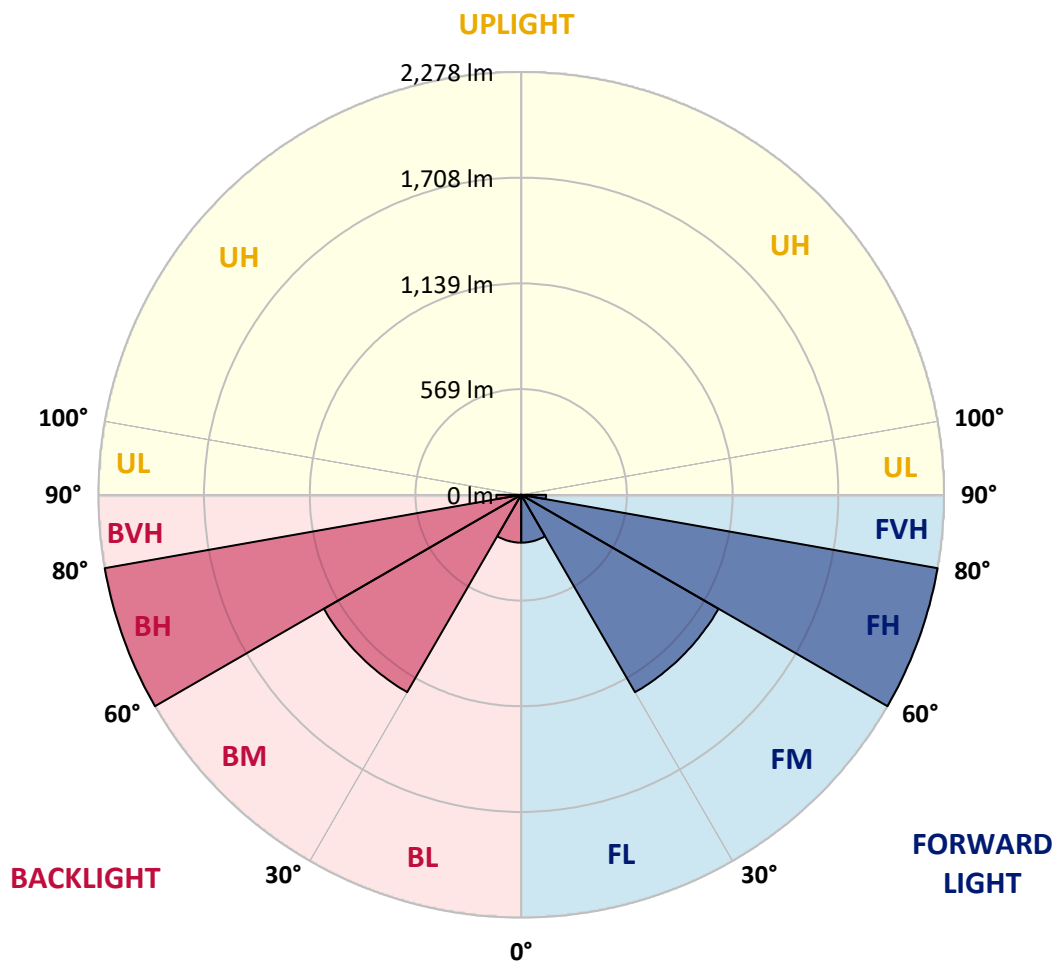
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	257.5	3.3			
FM	(30°-60°)	1227.6	15.8			
FH	(60°-80°)	2277.7	29.2			G2/5000
FVH	(80°-90°)	133.8	1.7			G2/225
BL	(0°-30°)	257.5	3.3	B1/500		
BM	(30°-60°)	1227.6	15.8	B2/2500		
BH	(60°-80°)	2277.7	29.2	B3/2500		G2/5000
BVH	(80°-90°)	133.8	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°	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3
2.5°	636.4	637.9	634.9	634.9	634.9	633.4	634.9	633.4	634.9	636.4	636.4
5°	630.5	630.5	627.5	627.5	627.5	626.0	627.5	627.5	629.0	630.5	630.5
7.5°	617.1	617.1	615.6	614.1	612.7	612.7	614.1	614.1	615.6	617.1	617.1
10°	609.7	608.2	605.2	600.8	599.3	597.8	600.8	603.8	608.2	612.7	611.2
12.5°	606.7	605.2	599.3	594.9	591.9	593.4	596.3	599.3	606.7	611.2	609.7
15°	609.7	606.7	599.3	591.9	593.4	596.3	599.3	599.3	608.2	612.7	612.7
17.5°	609.7	608.2	599.3	593.4	594.9	599.3	600.8	599.3	606.7	614.1	614.1
20°	611.2	611.2	599.3	594.9	596.3	600.8	602.3	600.8	606.7	615.6	615.6
22.5°	614.1	612.7	600.8	597.8	600.8	603.8	605.2	603.8	609.7	617.1	618.6
25°	620.1	617.1	606.7	605.2	611.2	615.6	615.6	612.7	615.6	623.0	623.0
27.5°	627.5	626.0	614.1	614.1	621.6	630.5	626.0	620.1	623.0	630.5	630.5
30°	640.8	639.4	627.5	627.5	637.9	648.3	637.9	630.5	634.9	642.3	643.8
32.5°	660.1	660.1	649.7	646.8	664.6	669.0	664.6	649.7	652.7	663.1	663.1
35°	692.8	689.8	679.4	677.9	695.7	694.2	692.8	679.4	682.4	694.2	694.2
37.5°	735.8	734.3	725.4	720.9	729.8	723.9	726.9	720.9	728.4	737.3	738.7
40°	790.7	789.2	781.8	775.8	778.8	769.9	772.9	775.8	783.2	789.2	790.7
42.5°	858.9	858.9	851.5	841.1	836.7	832.2	832.2	838.1	845.6	853.0	853.0
45°	943.5	943.5	934.6	924.2	910.8	903.4	906.4	912.3	921.2	930.1	933.1
47.5°	1042.8	1042.8	1031.0	1020.6	1007.2	998.3	998.3	1001.3	1014.7	1022.1	1026.5
50°	1154.1	1149.7	1137.8	1127.4	1120.0	1108.1	1109.6	1108.1	1120.0	1130.4	1133.3
52.5°	1269.8	1268.3	1256.5	1253.5	1257.9	1252.0	1252.0	1237.2	1241.6	1247.6	1246.1
55°	1413.7	1409.3	1398.9	1404.8	1422.6	1431.5	1428.5	1404.8	1391.5	1394.4	1392.9
57.5°	1571.0	1566.5	1563.5	1581.3	1621.4	1658.5	1651.1	1596.2	1571.0	1572.4	1573.9
60°	1731.2	1731.2	1740.1	1784.6	1870.6	1931.4	1909.2	1817.2	1772.7	1763.8	1760.8
62.5°	1895.8	1900.3	1919.6	1993.7	2125.8	2226.6	2170.3	2039.7	1973.0	1955.2	1949.2
65°	2087.2	2091.6	2119.8	2211.8	2386.8	2507.0	2410.6	2287.4	2194.0	2156.9	2151.0
67.5°	2364.6	2367.6	2389.8	2478.8	2643.5	2739.9	2640.5	2530.7	2429.9	2386.8	2383.9
70°	2613.8	2616.8	2636.1	2753.2	2904.6	2938.7	2828.9	2689.5	2584.1	2550.0	2544.1
72.5°	2557.4	2567.8	2631.6	2814.1	3047.0	3091.5	2860.0	2650.9	2481.8	2425.4	2407.6
75°	2145.0	2161.4	2262.2	2536.7	2907.5	3033.6	2676.1	2291.9	2039.7	1931.4	1903.2
77.5°	1252.0	1312.8	1486.4	1838.0	2367.6	2624.2	2204.4	1677.8	1253.5	1075.5	1016.1
80°	342.7	375.3	501.4	845.6	1484.9	1838.0	1406.3	769.9	415.4	311.5	289.3
82.5°	108.3	143.9	182.5	243.3	583.0	968.7	522.2	227.0	178.0	146.9	130.5
85°	57.9	62.3	102.4	118.7	175.0	271.5	161.7	118.7	106.8	78.6	74.2
87.5°	29.7	31.2	57.9	57.9	77.1	63.8	69.7	63.8	60.8	38.6	34.1
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)