

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: P214508

Luminaire Tested: **ARCH-AF24-70-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214508
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-AF24-70-D-U-5WQ-7030
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7666 lumens
Efficiency: N/A
Efficacy: 103.6 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

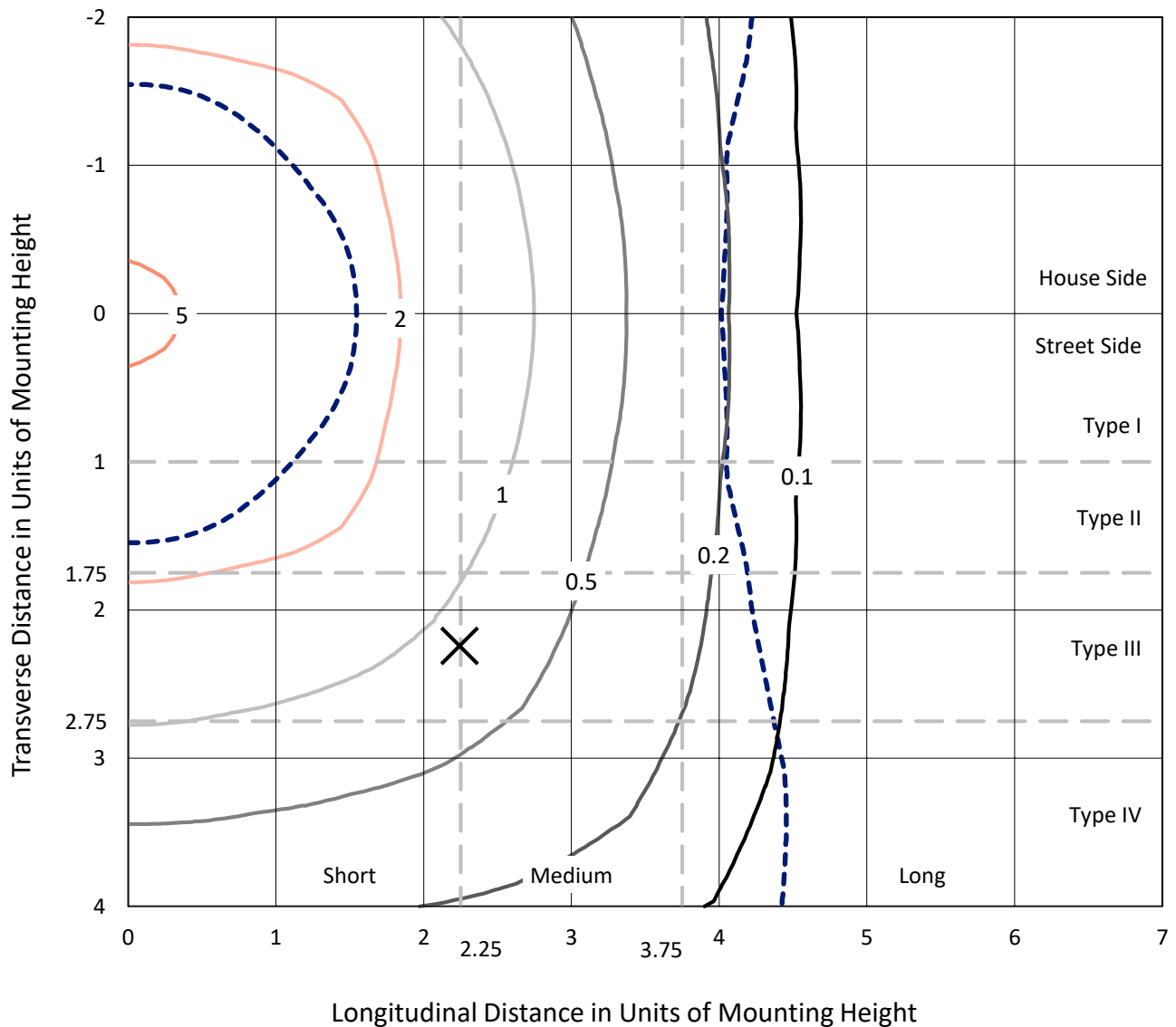
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

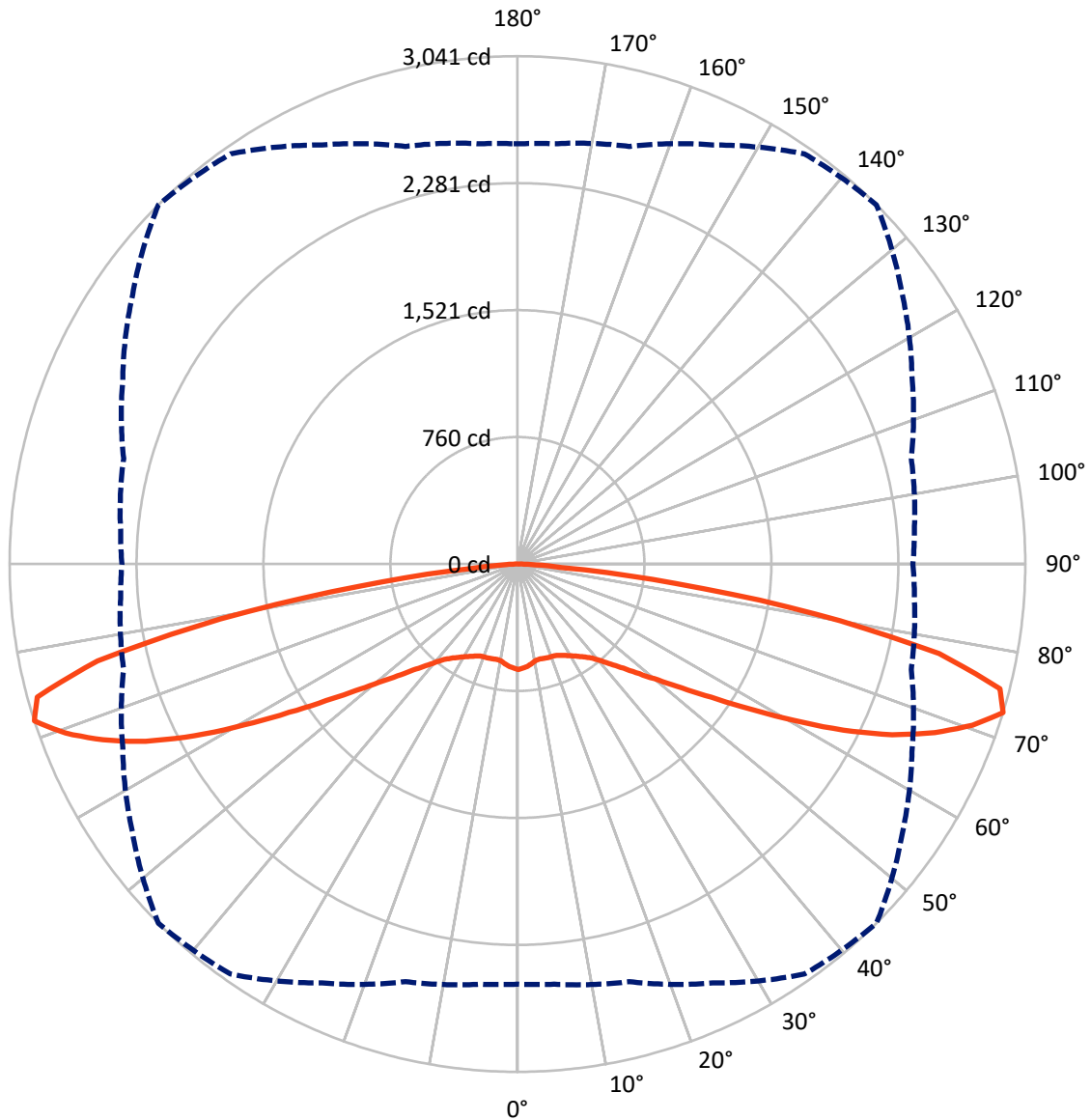


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - Non-Cutoff

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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	3833.0	0.0	3833.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3833.0	0.0	3833.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7666.0	0.0	7666.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	0.8
10°-20°	167.7	2.2
20°-30°	280.7	3.7
30°-40°	431.3	5.6
40°-50°	714.2	9.3
50°-60°	1269.6	16.6
60°-70°	2221.2	29.0
70°-80°	2259.9	29.5
80°-90°	263.1	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°	7666.0	100.0
0°-180°	7666.0	100.0



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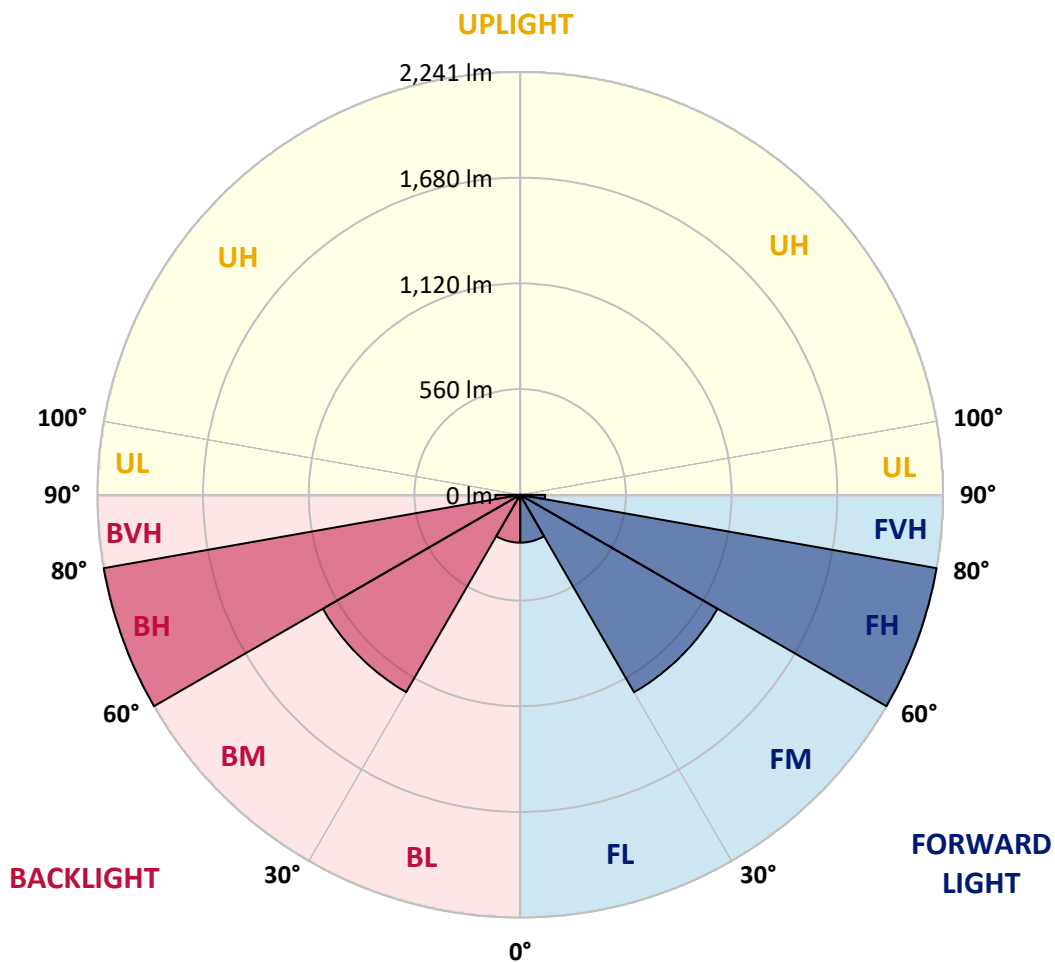
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.3	3.3			
FM	(30°-60°)	1207.6	15.8			
FH	(60°-80°)	2240.6	29.2			G2/5000
FVH	(80°-90°)	131.6	1.7			G2/225
BL	(0°-30°)	253.3	3.3	B1/500		
BM	(30°-60°)	1207.6	15.8	B2/2500		
BH	(60°-80°)	2240.6	29.2	B3/2500		G2/5000
BVH	(80°-90°)	131.6	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°	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9
2.5°	626.0	627.5	624.6	624.6	624.6	623.1	624.6	623.1	624.6	626.0	626.0
5°	620.2	620.2	617.3	617.3	617.3	615.8	617.3	617.3	618.7	620.2	620.2
7.5°	607.0	607.0	605.6	604.1	602.7	602.7	604.1	604.1	605.6	607.0	607.0
10°	599.8	598.3	595.4	591.0	589.5	588.1	591.0	593.9	598.3	602.7	601.2
12.5°	596.8	595.4	589.5	585.2	582.2	583.7	586.6	589.5	596.8	601.2	599.8
15°	599.8	596.8	589.5	582.2	583.7	586.6	589.5	589.5	598.3	602.7	602.7
17.5°	599.8	598.3	589.5	583.7	585.2	589.5	591.0	589.5	596.8	604.1	604.1
20°	601.2	601.2	589.5	585.2	586.6	591.0	592.5	591.0	596.8	605.6	605.6
22.5°	604.1	602.7	591.0	588.1	591.0	593.9	595.4	593.9	599.8	607.0	608.5
25°	610.0	607.0	596.8	595.4	601.2	605.6	605.6	602.7	605.6	612.9	612.9
27.5°	617.3	615.8	604.1	604.1	611.4	620.2	615.8	610.0	612.9	620.2	620.2
30°	630.4	628.9	617.3	617.3	627.5	637.7	627.5	620.2	624.6	631.9	633.3
32.5°	649.4	649.4	639.2	636.2	653.7	658.1	653.7	639.2	642.1	652.3	652.3
35°	681.5	678.6	668.3	666.9	684.4	682.9	681.5	668.3	671.3	682.9	682.9
37.5°	723.8	722.3	713.6	709.2	718.0	712.1	715.0	709.2	716.5	725.2	726.7
40°	777.8	776.3	769.0	763.2	766.1	757.4	760.3	763.2	770.5	776.3	777.8
42.5°	844.9	844.9	837.6	827.4	823.0	818.6	818.6	824.5	831.8	839.1	839.1
45°	928.1	928.1	919.3	909.1	896.0	888.7	891.6	897.4	906.2	915.0	917.9
47.5°	1025.9	1025.9	1014.2	1004.0	990.8	982.1	982.1	985.0	998.1	1005.4	1009.8
50°	1135.3	1130.9	1119.2	1109.0	1101.7	1090.1	1091.5	1090.1	1101.7	1112.0	1114.9
52.5°	1249.1	1247.7	1236.0	1233.1	1237.4	1231.6	1231.6	1217.0	1221.4	1227.2	1225.8
55°	1390.7	1386.3	1376.1	1381.9	1399.4	1408.2	1405.3	1381.9	1368.8	1371.7	1370.2
57.5°	1545.3	1541.0	1538.1	1555.6	1595.0	1631.4	1624.1	1570.2	1545.3	1546.8	1548.3
60°	1702.9	1702.9	1711.7	1755.5	1840.1	1899.9	1878.1	1787.6	1743.8	1735.1	1732.1
62.5°	1864.9	1869.3	1888.3	1961.2	2091.1	2190.3	2134.9	2006.5	1940.8	1923.3	1917.5
65°	2053.2	2057.5	2085.3	2175.7	2347.9	2466.1	2371.3	2250.2	2158.2	2121.8	2115.9
67.5°	2326.0	2329.0	2350.9	2438.4	2600.4	2695.2	2597.5	2489.5	2390.3	2347.9	2345.0
70°	2571.2	2574.1	2593.1	2708.4	2857.2	2890.8	2782.8	2645.6	2542.0	2508.5	2502.6
72.5°	2515.8	2526.0	2588.7	2768.2	2997.3	3041.1	2813.4	2607.7	2441.3	2385.9	2368.4
75°	2110.1	2126.1	2225.4	2495.3	2860.1	2984.2	2632.5	2254.5	2006.5	1899.9	1872.2
77.5°	1231.6	1291.4	1462.2	1808.0	2329.0	2581.4	2168.4	1650.4	1233.1	1058.0	999.6
80°	337.1	369.2	493.2	831.8	1460.7	1808.0	1383.4	757.4	408.6	306.4	284.6
82.5°	106.5	141.5	179.5	239.3	573.5	952.9	513.7	223.3	175.1	144.5	128.4
85°	56.9	61.3	100.7	116.7	172.2	267.0	159.1	116.7	105.1	77.3	73.0
87.5°	29.2	30.6	56.9	56.9	75.9	62.7	68.6	62.7	59.8	37.9	33.6
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)