

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: P214511

Luminaire Tested: **ARCH-AF24-100-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214511
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-AF24-100-D-U-5WQ-7030
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8971 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G2

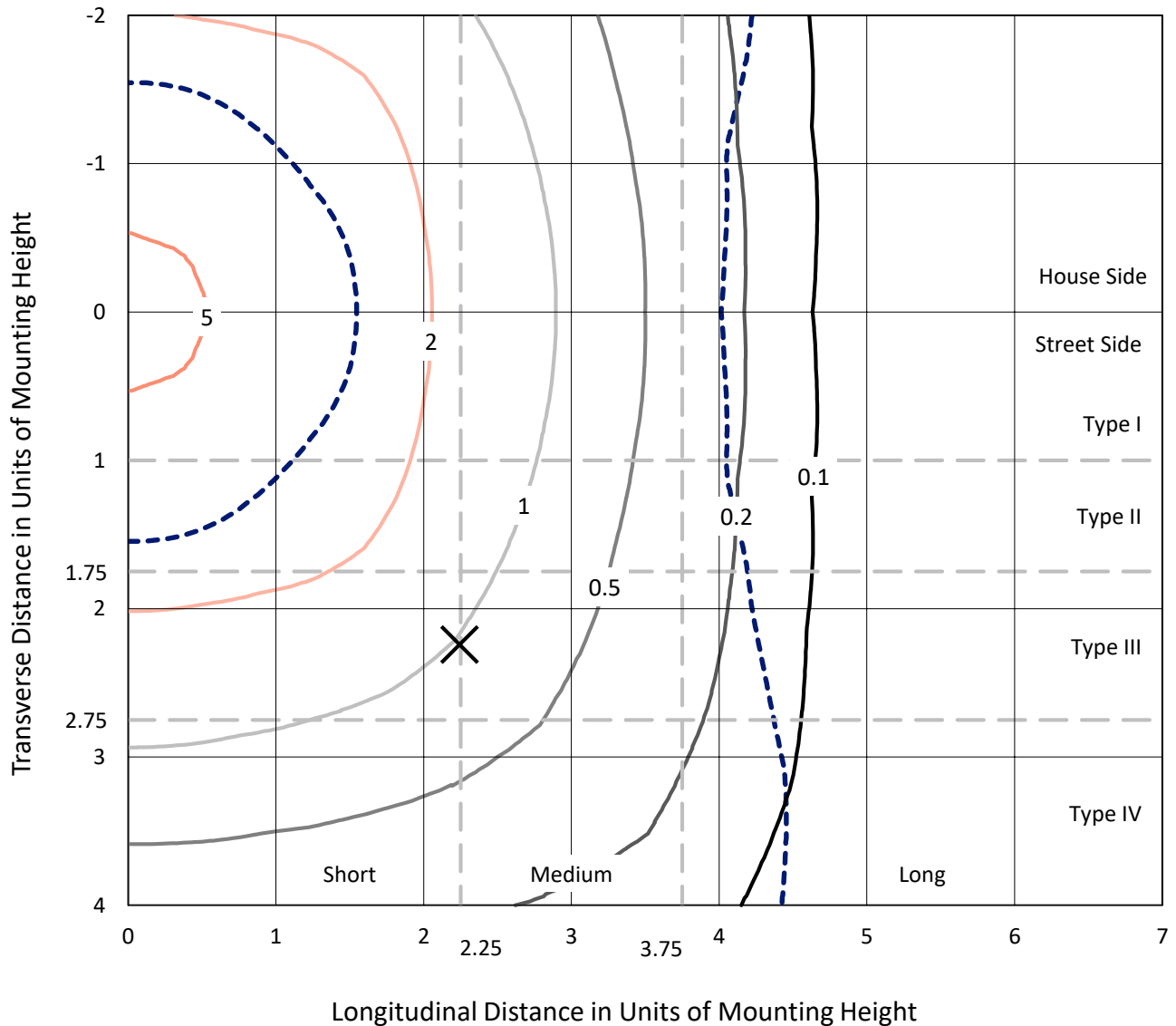
Input Watts (W): 96
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

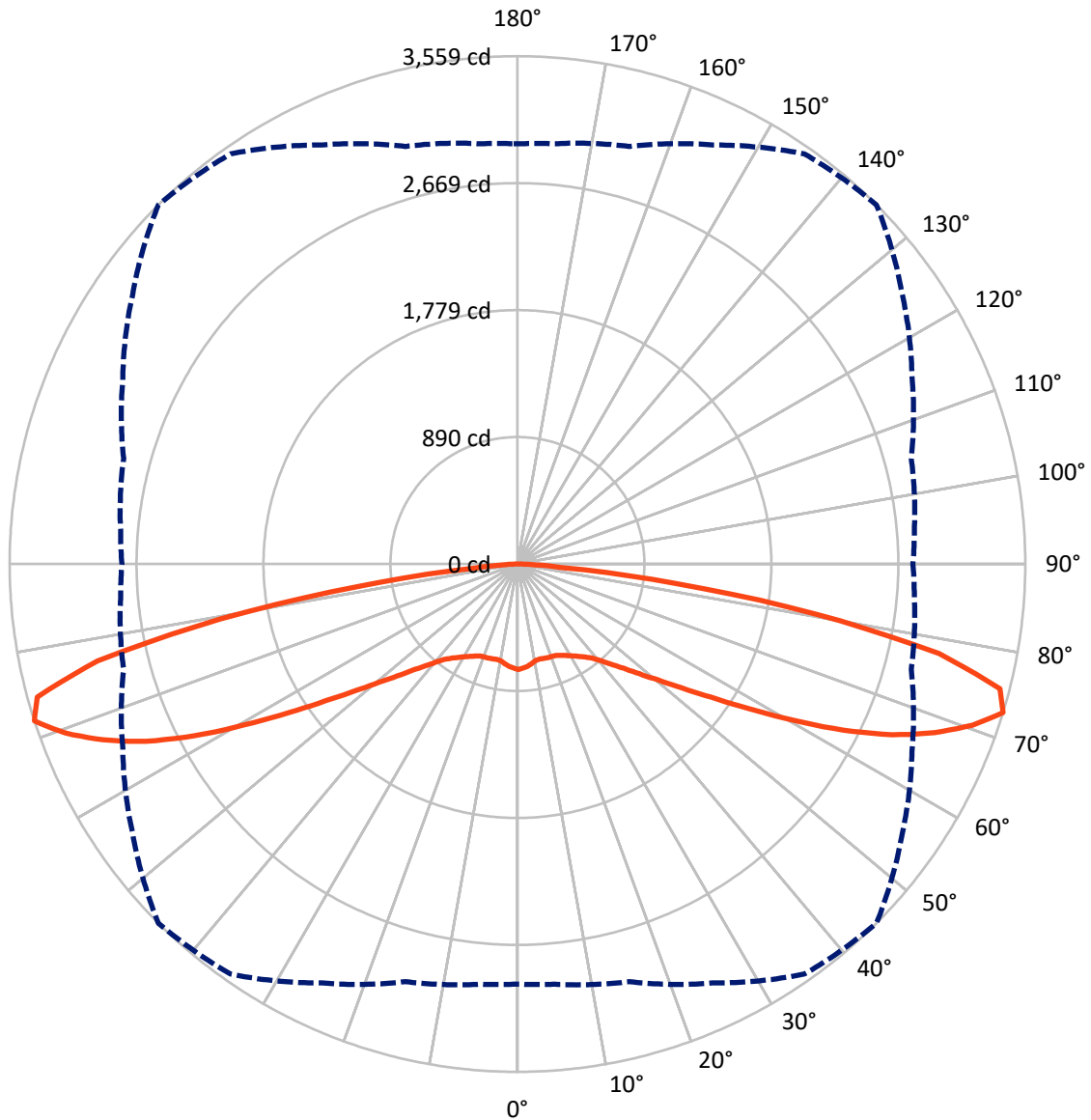
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 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	4485.5	0.0	4485.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4485.5	0.0	4485.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8971.0	0.0	8971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	0.8
10°-20°	196.3	2.2
20°-30°	328.5	3.7
30°-40°	504.7	5.6
40°-50°	835.7	9.3
50°-60°	1485.8	16.6
60°-70°	2599.3	29.0
70°-80°	2644.6	29.5
80°-90°	307.9	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°	8971.0	100.0
0°-180°	8971.0	100.0

Coefficient of Utilization



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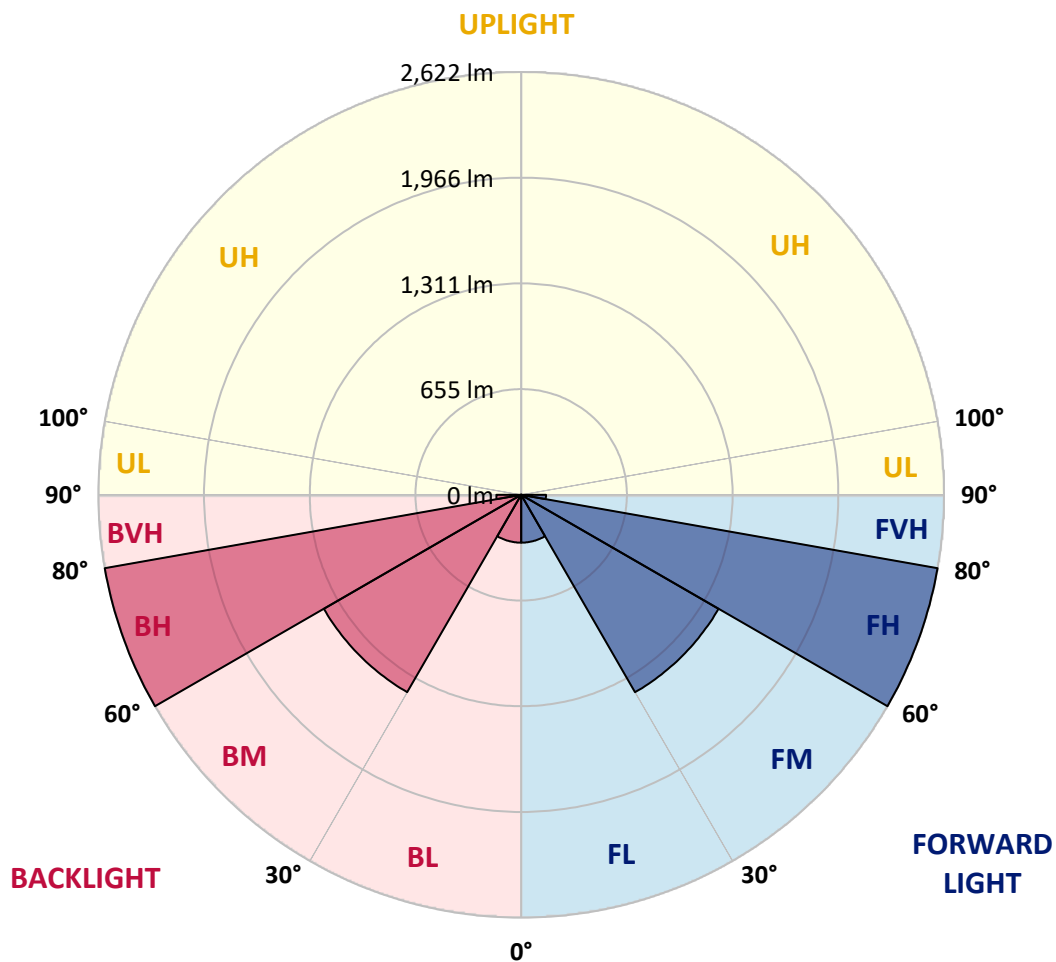
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	296.4	3.3			
FM	(30°-60°)	1413.1	15.8			
FH	(60°-80°)	2622.0	29.2			G2/5000
FVH	(80°-90°)	154.0	1.7			G2/225
BL	(0°-30°)	296.4	3.3	B1/500		
BM	(30°-60°)	1413.1	15.8	B2/2500		
BH	(60°-80°)	2622.0	29.2	B4/5000		G2/5000
BVH	(80°-90°)	154.0	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°	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4
2.5°	732.6	734.3	730.9	730.9	730.9	729.2	730.9	729.2	730.9	732.6	732.6
5°	725.8	725.8	722.3	722.3	722.3	720.6	722.3	722.3	724.0	725.8	725.8
7.5°	710.4	710.4	708.7	707.0	705.3	705.3	707.0	707.0	708.7	710.4	710.4
10°	701.9	700.1	696.7	691.6	689.9	688.2	691.6	695.0	700.1	705.3	703.6
12.5°	698.4	696.7	689.9	684.8	681.4	683.1	686.5	689.9	698.4	703.6	701.9
15°	701.9	698.4	689.9	681.4	683.1	686.5	689.9	689.9	700.1	705.3	705.3
17.5°	701.9	700.1	689.9	683.1	684.8	689.9	691.6	689.9	698.4	707.0	707.0
20°	703.6	703.6	689.9	684.8	686.5	691.6	693.3	691.6	698.4	708.7	708.7
22.5°	707.0	705.3	691.6	688.2	691.6	695.0	696.7	695.0	701.9	710.4	712.1
25°	713.8	710.4	698.4	696.7	703.6	708.7	708.7	705.3	708.7	717.2	717.2
27.5°	722.3	720.6	707.0	707.0	715.5	725.8	720.6	713.8	717.2	725.8	725.8
30°	737.7	736.0	722.3	722.3	734.3	746.2	734.3	725.8	730.9	739.4	741.1
32.5°	759.9	759.9	748.0	744.5	765.0	770.2	765.0	748.0	751.4	763.3	763.3
35°	797.5	794.1	782.1	780.4	800.9	799.2	797.5	782.1	785.5	799.2	799.2
37.5°	847.0	845.3	835.0	829.9	840.2	833.3	836.8	829.9	838.5	848.7	850.4
40°	910.2	908.5	899.9	893.1	896.5	886.3	889.7	893.1	901.6	908.5	910.2
42.5°	988.7	988.7	980.2	968.2	963.1	958.0	958.0	964.8	973.4	981.9	981.9
45°	1086.1	1086.1	1075.8	1063.9	1048.5	1040.0	1043.4	1050.2	1060.5	1070.7	1074.1
47.5°	1200.5	1200.5	1186.8	1174.9	1159.5	1149.3	1149.3	1152.7	1168.0	1176.6	1181.7
50°	1328.6	1323.4	1309.8	1297.8	1289.3	1275.6	1277.3	1275.6	1289.3	1301.2	1304.7
52.5°	1461.8	1460.1	1446.4	1443.0	1448.1	1441.3	1441.3	1424.2	1429.3	1436.1	1434.4
55°	1627.4	1622.3	1610.3	1617.2	1637.7	1647.9	1644.5	1617.2	1601.8	1605.2	1603.5
57.5°	1808.4	1803.3	1799.9	1820.4	1866.5	1909.2	1900.6	1837.4	1808.4	1810.1	1811.8
60°	1992.8	1992.8	2003.1	2054.3	2153.4	2223.4	2197.8	2091.9	2040.7	2030.4	2027.0
62.5°	2182.4	2187.5	2209.7	2295.1	2447.1	2563.2	2498.3	2348.0	2271.2	2250.7	2243.9
65°	2402.7	2407.8	2440.3	2546.1	2747.6	2886.0	2775.0	2633.2	2525.6	2482.9	2476.1
67.5°	2722.0	2725.4	2751.0	2853.5	3043.1	3154.1	3039.6	2913.3	2797.2	2747.6	2744.2
70°	3008.9	3012.3	3034.5	3169.4	3343.6	3382.9	3256.5	3096.0	2974.8	2935.5	2928.6
72.5°	2944.0	2956.0	3029.4	3239.4	3507.5	3558.8	3292.4	3051.6	2856.9	2792.0	2771.5
75°	2469.3	2488.1	2604.2	2920.1	3347.0	3492.2	3080.6	2638.3	2348.0	2223.4	2190.9
77.5°	1441.3	1511.3	1711.1	2115.8	2725.4	3020.9	2537.6	1931.4	1443.0	1238.1	1169.8
80°	394.5	432.0	577.2	973.4	1709.4	2115.8	1618.9	886.3	478.1	358.6	333.0
82.5°	124.7	165.6	210.0	280.1	671.1	1115.1	601.1	261.3	204.9	169.1	150.3
85°	66.6	71.7	117.8	136.6	201.5	312.5	186.1	136.6	123.0	90.5	85.4
87.5°	34.2	35.9	66.6	66.6	88.8	73.4	80.3	73.4	70.0	44.4	39.3
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)