

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: P265985

Luminaire Tested: **ARCH-AF24-100-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265985
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-7027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 8804.9 lumens
Efficiency: N/A
Efficacy: 91.7 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

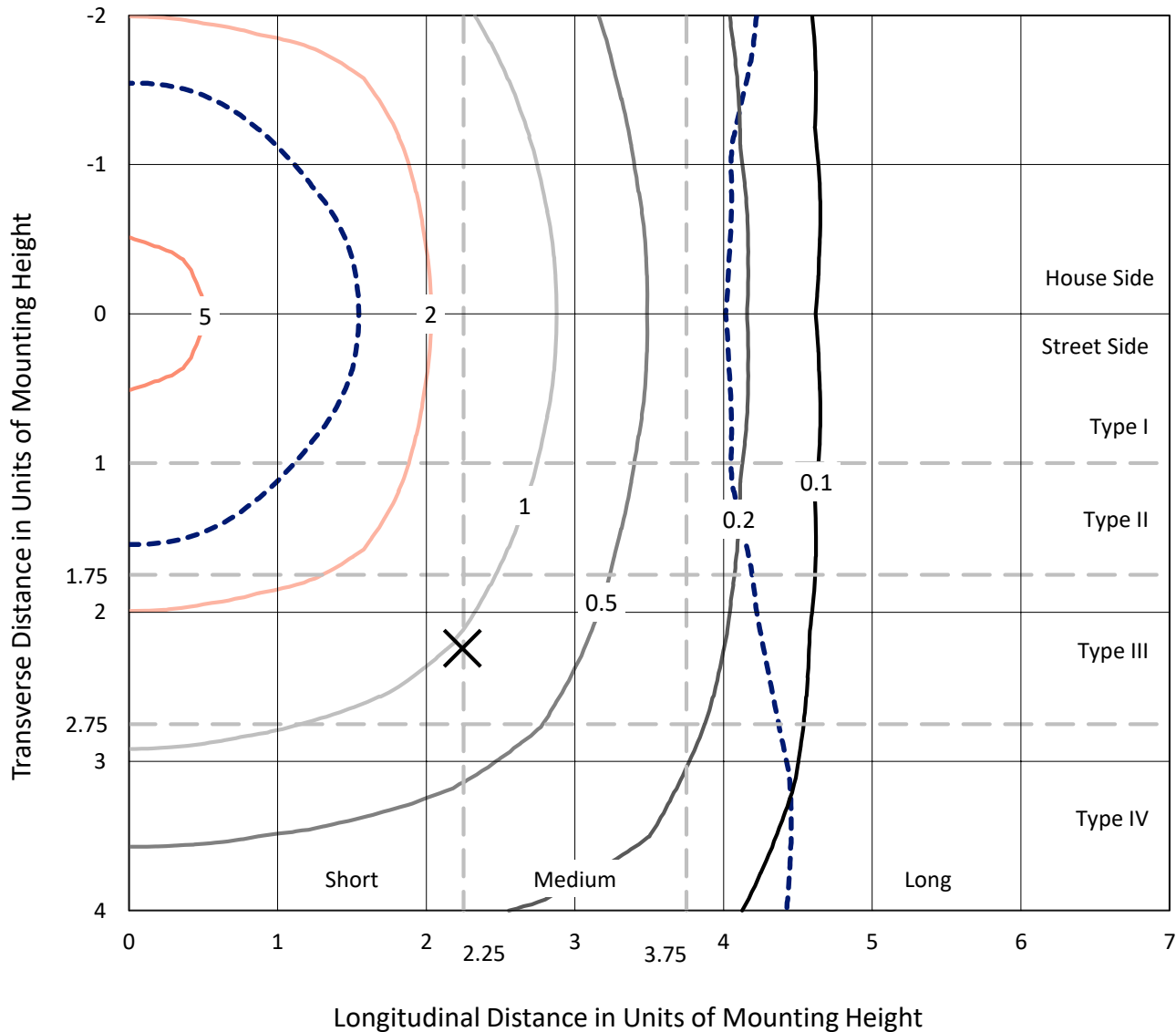
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

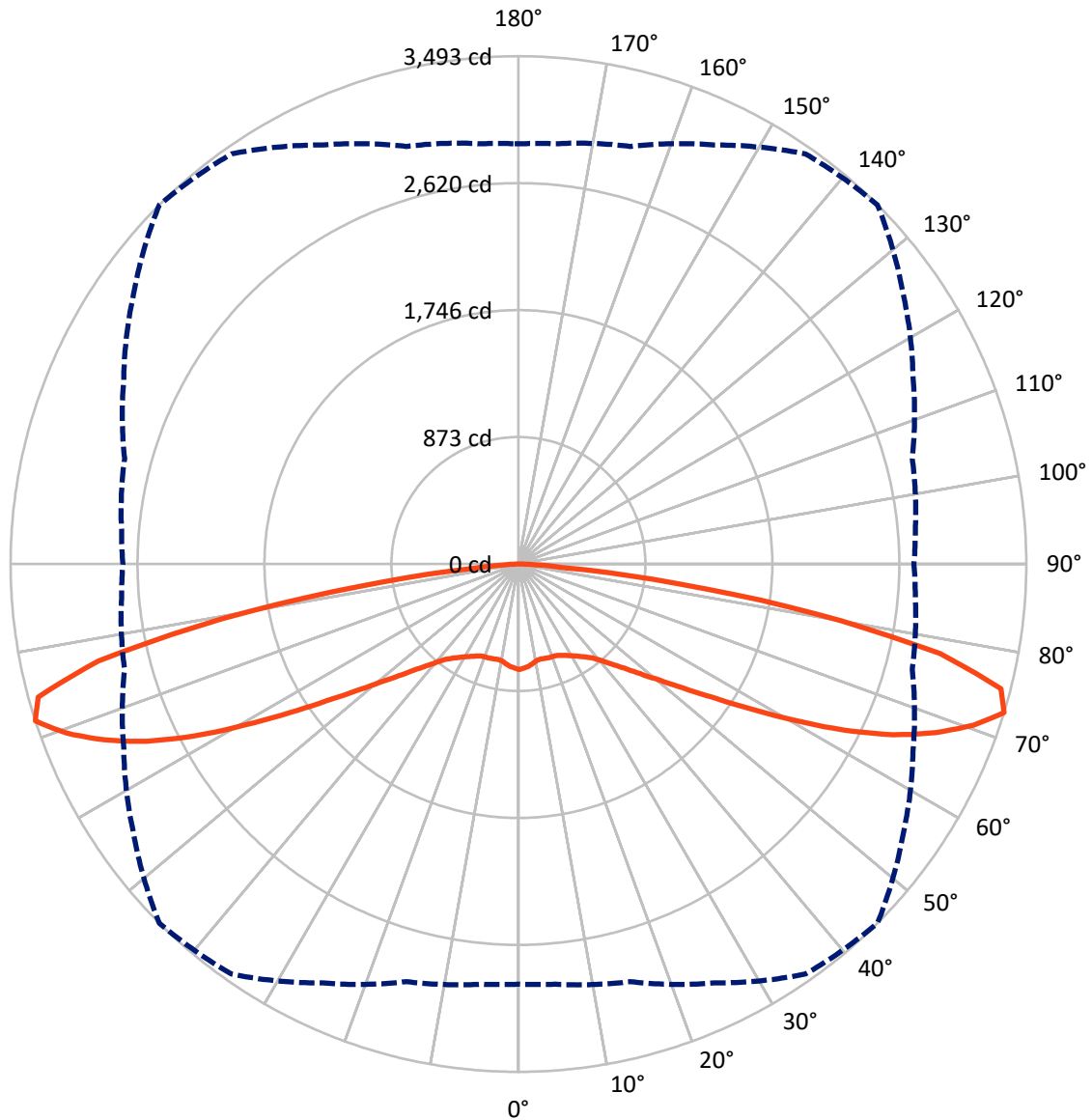
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 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	4402.4	0.0	4402.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4402.4	0.0	4402.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	8804.9	0.0	8804.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	0.8
10°-20°	192.7	2.2
20°-30°	322.4	3.7
30°-40°	495.4	5.6
40°-50°	820.3	9.3
50°-60°	1458.3	16.6
60°-70°	2551.2	29.0
70°-80°	2595.6	29.5
80°-90°	302.2	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°	8804.9	100.0
0°-180°	8804.9	100.0



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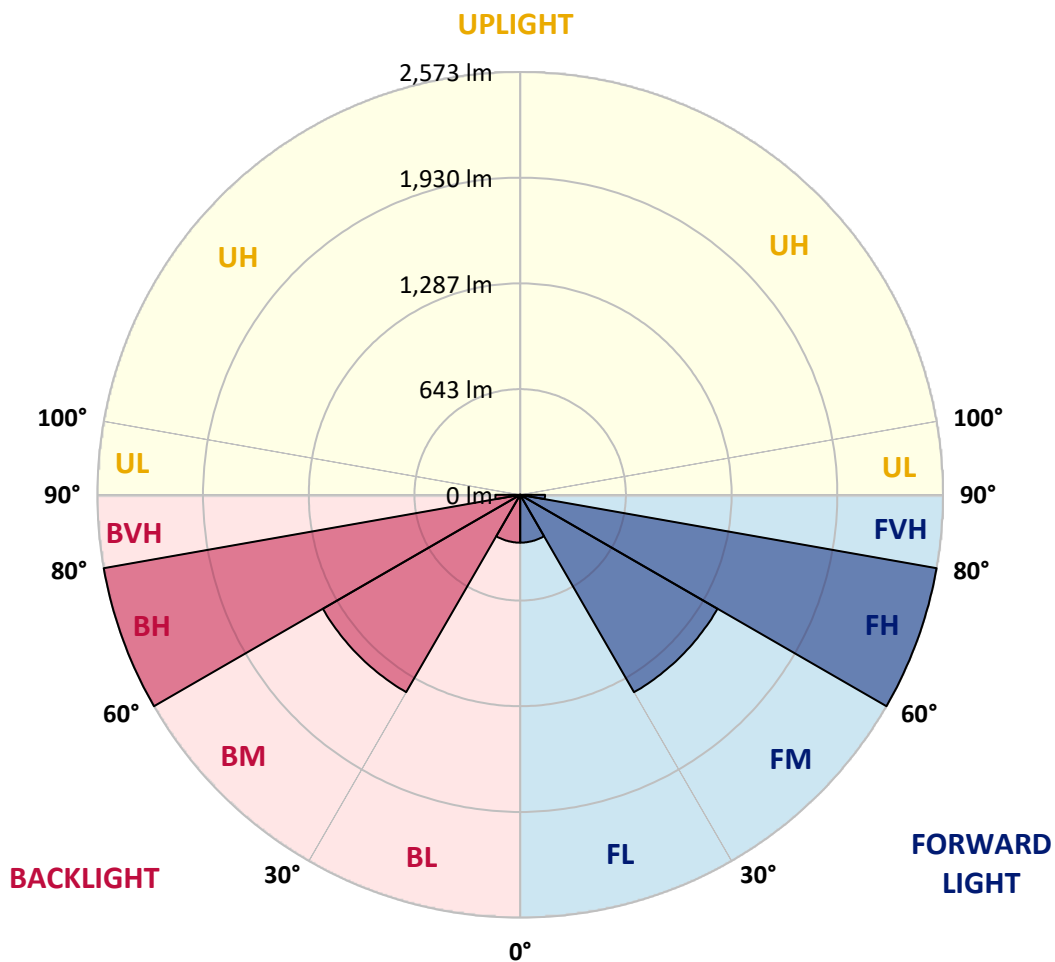
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	290.9	3.3			
FM	(30°-60°)	1387.0	15.8			
FH	(60°-80°)	2573.4	29.2			G2/5000
FVH	(80°-90°)	151.1	1.7			G2/225
BL	(0°-30°)	290.9	3.3	B1/500		
BM	(30°-60°)	1387.0	15.8	B2/2500		
BH	(60°-80°)	2573.4	29.2	B4/5000		G2/5000
BVH	(80°-90°)	151.1	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°	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7	725.7
2.5°	719.1	720.7	717.3	717.3	717.3	715.7	717.3	715.7	717.3	719.1	719.1
5°	712.4	712.4	708.9	708.9	708.9	707.2	708.9	708.9	710.6	712.4	712.4
7.5°	697.3	697.3	695.6	693.9	692.2	692.2	693.9	693.9	695.6	697.3	697.3
10°	688.9	687.2	683.8	678.8	677.1	675.4	678.8	682.2	687.2	692.2	690.5
12.5°	685.4	683.8	677.1	672.1	668.8	670.5	673.8	677.1	685.4	690.5	688.9
15°	688.9	685.4	677.1	668.8	670.5	673.8	677.1	677.1	687.2	692.2	692.2
17.5°	688.9	687.2	677.1	670.5	672.1	677.1	678.8	677.1	685.4	693.9	693.9
20°	690.5	690.5	677.1	672.1	673.8	678.8	680.5	678.8	685.4	695.6	695.6
22.5°	693.9	692.2	678.8	675.4	678.8	682.2	683.8	682.2	688.9	697.3	698.9
25°	700.6	697.3	685.4	683.8	690.5	695.6	695.6	692.2	695.6	703.9	703.9
27.5°	708.9	707.2	693.9	693.9	702.2	712.4	707.2	700.6	703.9	712.4	712.4
30°	724.0	722.3	708.9	708.9	720.7	732.4	720.7	712.4	717.3	725.7	727.4
32.5°	745.9	745.9	734.2	730.7	750.9	756.0	750.9	734.2	737.5	749.1	749.1
35°	782.8	779.4	767.6	766.0	786.0	784.4	782.8	767.6	770.9	784.4	784.4
37.5°	831.3	829.7	819.6	814.6	824.6	817.8	821.3	814.6	822.9	833.0	834.6
40°	893.4	891.7	883.3	876.6	879.9	869.9	873.2	876.6	884.9	891.7	893.4
42.5°	970.3	970.3	962.1	950.2	945.2	940.3	940.3	947.0	955.3	963.7	963.7
45°	1066.0	1066.0	1055.9	1044.2	1029.1	1020.7	1024.1	1030.7	1040.9	1050.8	1054.3
47.5°	1178.2	1178.2	1164.8	1153.2	1138.1	1128.0	1128.0	1131.3	1146.3	1154.9	1159.8
50°	1304.0	1298.9	1285.6	1273.7	1265.4	1252.0	1253.7	1252.0	1265.4	1277.1	1280.5
52.5°	1434.8	1433.1	1419.6	1416.3	1421.3	1414.7	1414.7	1397.9	1402.9	1409.5	1407.9
55°	1597.2	1592.2	1580.5	1587.2	1607.3	1617.4	1614.1	1587.2	1572.2	1575.4	1573.8
57.5°	1775.0	1769.9	1766.5	1786.6	1832.0	1873.9	1865.4	1803.3	1775.0	1776.6	1778.3
60°	1955.9	1955.9	1966.0	2016.2	2113.5	2182.3	2157.1	2053.2	2003.0	1992.8	1989.4
62.5°	2142.0	2146.9	2168.8	2252.6	2401.8	2515.8	2452.1	2304.5	2229.1	2209.0	2202.4
65°	2358.2	2363.3	2395.2	2498.9	2696.7	2832.5	2723.7	2584.5	2478.9	2436.9	2430.3
67.5°	2671.6	2675.0	2700.0	2800.6	2986.8	3095.6	2983.4	2859.3	2745.4	2696.7	2693.4
70°	2953.2	2956.5	2978.3	3110.7	3281.7	3320.2	3196.2	3038.6	2919.8	2881.1	2874.3
72.5°	2889.5	2901.3	2973.3	3179.5	3442.6	3492.9	3231.5	2995.0	2804.0	2740.3	2720.2
75°	2423.5	2442.0	2555.9	2866.0	3285.0	3427.6	3023.5	2589.5	2304.5	2182.3	2150.4
77.5°	1414.7	1483.3	1679.4	2076.6	2675.0	2964.9	2490.6	1895.7	1416.3	1215.1	1148.2
80°	387.2	424.0	566.6	955.3	1677.8	2076.6	1588.9	869.9	469.3	352.0	326.9
82.5°	122.3	162.6	206.2	274.9	658.6	1094.5	589.9	256.5	201.1	165.9	147.5
85°	65.3	70.3	115.6	134.0	197.7	306.7	182.6	134.0	120.7	88.8	83.8
87.5°	33.5	35.3	65.3	65.3	87.1	72.0	78.8	72.0	68.7	43.6	38.5
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)