

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: P265940

Luminaire Tested: **ARCH-AF24-50-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265940
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-AF24-50-D-U-5WQ-7027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5878.1 lumens
Efficiency: N/A
Efficacy: 108.9 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): 54
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

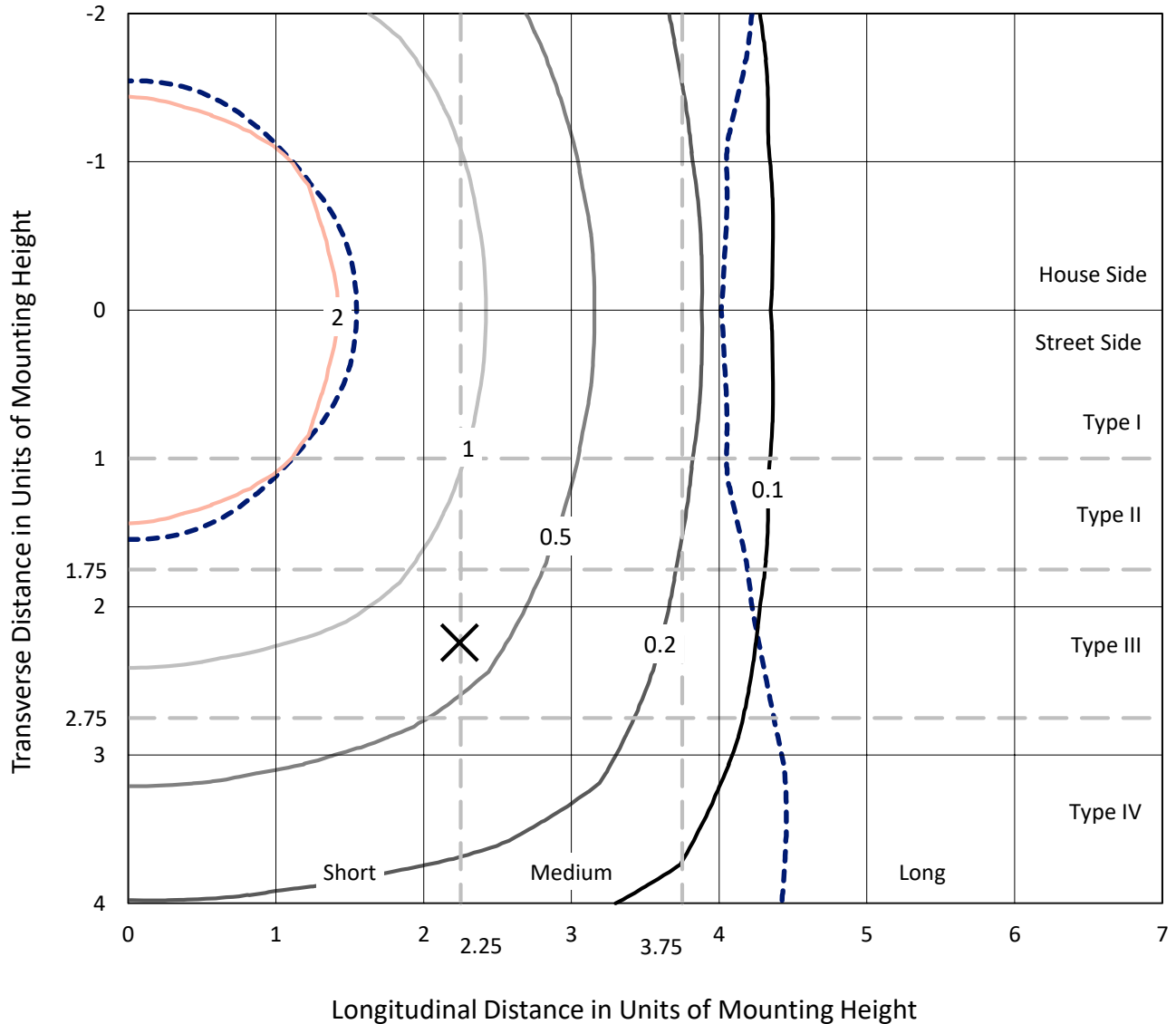


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

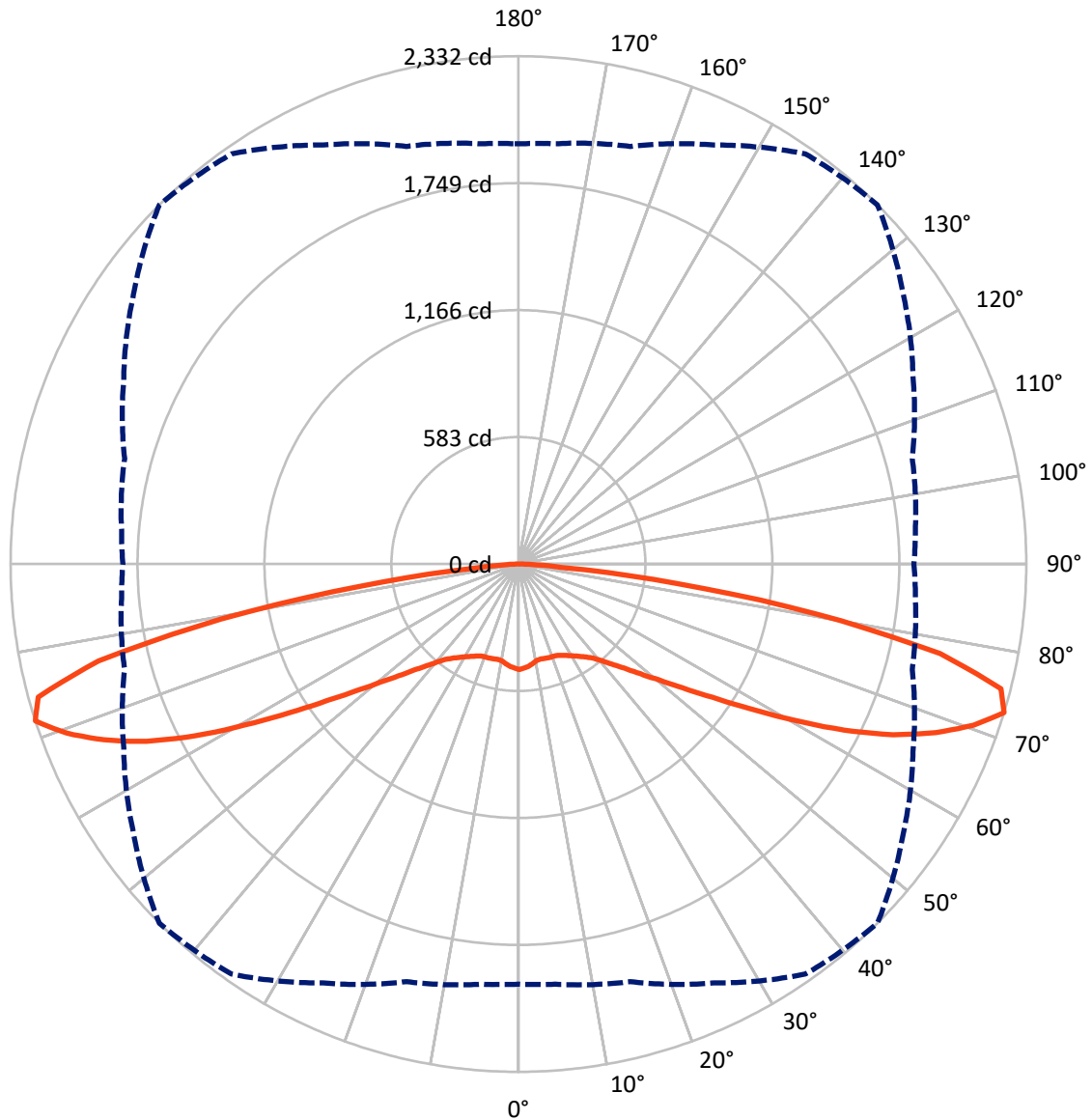


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Non-Cutoff

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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	2939.0	0.0	2939.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2939.0	0.0	2939.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5878.1	0.0	5878.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	0.8
10°-20°	128.6	2.2
20°-30°	215.2	3.7
30°-40°	330.7	5.6
40°-50°	547.6	9.3
50°-60°	973.5	16.6
60°-70°	1703.2	29.0
70°-80°	1732.8	29.5
80°-90°	201.8	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°	5878.1	100.0
0°-180°	5878.1	100.0



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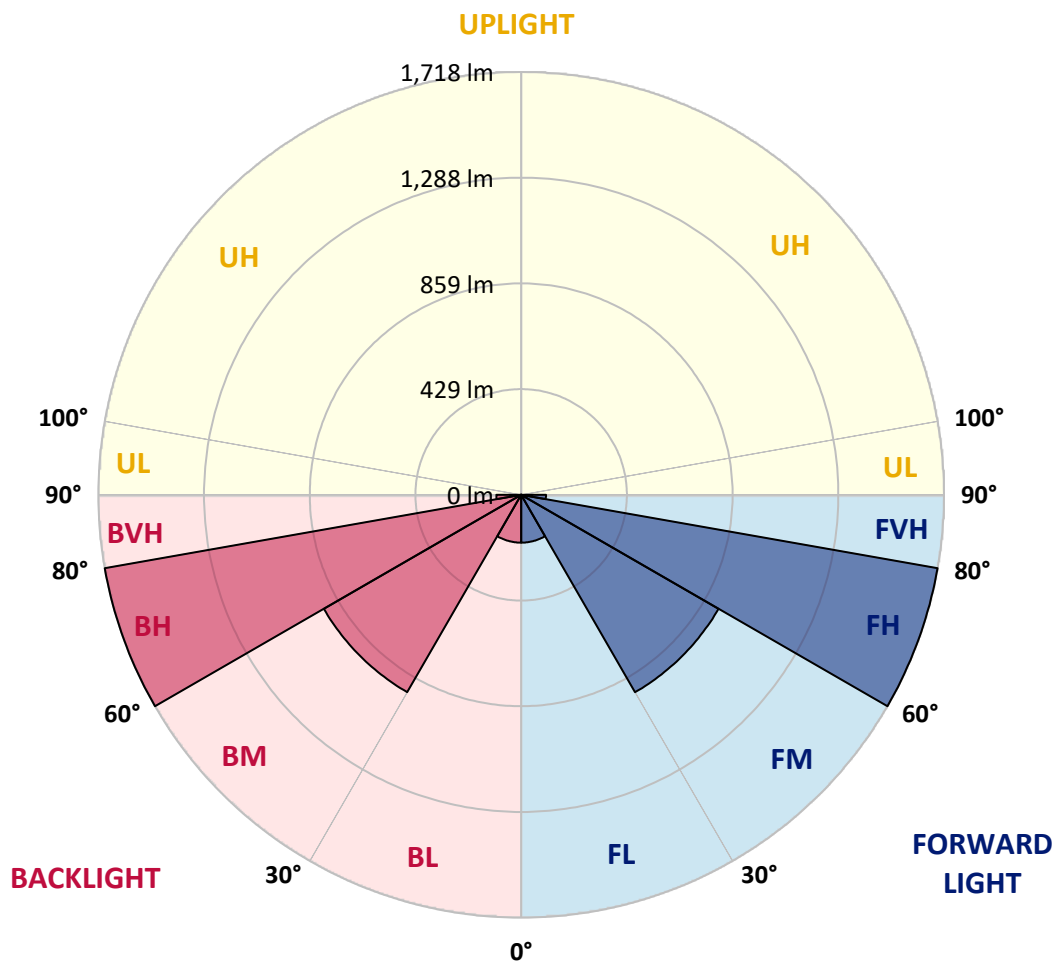
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	194.2	3.3			
FM	(30°-60°)	925.9	15.8			
FH	(60°-80°)	1718.0	29.2			G1/1800
FVH	(80°-90°)	100.9	1.7			G2/225
BL	(0°-30°)	194.2	3.3	B1/500		
BM	(30°-60°)	925.9	15.8	B1/1000		
BH	(60°-80°)	1718.0	29.2	B3/2500		G1/1800
BVH	(80°-90°)	100.9	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°	484.5	484.5	484.5	484.5	484.5	484.5	484.5	484.5	484.5	484.5	484.5
2.5°	480.1	481.1	478.8	478.8	478.8	477.8	478.8	477.8	478.8	480.1	480.1
5°	475.6	475.6	473.2	473.2	473.2	472.1	473.2	473.2	474.5	475.6	475.6
7.5°	465.5	465.5	464.3	463.3	462.1	462.1	463.3	463.3	464.3	465.5	465.5
10°	459.9	458.8	456.5	453.1	452.0	450.9	453.1	455.4	458.8	462.1	461.0
12.5°	457.6	456.5	452.0	448.8	446.5	447.5	449.8	452.0	457.6	461.0	459.9
15°	459.9	457.6	452.0	446.5	447.5	449.8	452.0	452.0	458.8	462.1	462.1
17.5°	459.9	458.8	452.0	447.5	448.8	452.0	453.1	452.0	457.6	463.3	463.3
20°	461.0	461.0	452.0	448.8	449.8	453.1	454.4	453.1	457.6	464.3	464.3
22.5°	463.3	462.1	453.1	450.9	453.1	455.4	456.5	455.4	459.9	465.5	466.6
25°	467.7	465.5	457.6	456.5	461.0	464.3	464.3	462.1	464.3	470.0	470.0
27.5°	473.2	472.1	463.3	463.3	468.8	475.6	472.1	467.7	470.0	475.6	475.6
30°	483.4	482.3	473.2	473.2	481.1	488.9	481.1	475.6	478.8	484.5	485.7
32.5°	497.9	497.9	490.0	487.9	501.3	504.7	501.3	490.0	492.4	500.1	500.1
35°	522.5	520.3	512.5	511.3	524.8	523.6	522.5	512.5	514.6	523.6	523.6
37.5°	555.1	553.9	547.2	543.8	550.5	546.0	548.2	543.8	549.5	556.1	557.2
40°	596.4	595.2	589.6	585.2	587.4	580.8	583.0	585.2	590.7	595.2	596.4
42.5°	647.9	647.9	642.3	634.5	631.1	627.7	627.7	632.1	637.7	643.4	643.4
45°	711.6	711.6	704.9	697.1	687.1	681.5	683.7	688.1	694.8	701.5	703.8
47.5°	786.6	786.6	777.7	769.8	759.7	753.0	753.0	755.2	765.4	770.9	774.2
50°	870.5	867.1	858.2	850.3	844.8	835.9	837.0	835.9	844.8	852.6	854.8
52.5°	957.9	956.7	947.7	945.5	948.8	944.4	944.4	933.2	936.6	941.1	939.8
55°	1066.3	1063.0	1055.1	1059.6	1073.0	1079.8	1077.4	1059.6	1049.5	1051.7	1050.7
57.5°	1185.0	1181.6	1179.4	1192.8	1223.0	1251.0	1245.4	1204.0	1185.0	1186.0	1187.2
60°	1305.7	1305.7	1312.6	1346.1	1411.0	1456.8	1440.1	1370.6	1337.0	1330.4	1328.1
62.5°	1430.0	1433.3	1447.9	1503.9	1603.5	1679.6	1637.0	1538.4	1488.1	1474.7	1470.3
65°	1574.3	1577.7	1599.0	1668.3	1800.4	1890.9	1818.2	1725.4	1654.9	1626.9	1622.3
67.5°	1783.6	1785.8	1802.5	1869.7	1993.9	2066.6	1991.7	1908.9	1832.8	1800.4	1798.0
70°	1971.5	1973.8	1988.3	2076.7	2190.8	2216.6	2133.7	2028.6	1949.1	1923.5	1919.0
72.5°	1929.0	1936.8	1985.0	2122.5	2298.3	2331.8	2157.3	1999.4	1872.0	1829.4	1816.1
75°	1617.9	1630.2	1706.3	1913.4	2193.1	2288.3	2018.5	1728.7	1538.4	1456.8	1435.6
77.5°	944.4	990.2	1121.2	1386.4	1785.8	1979.3	1662.8	1265.5	945.5	811.2	766.4
80°	258.4	283.1	378.1	637.7	1120.0	1386.4	1060.7	580.8	313.2	234.9	218.2
82.5°	81.7	108.5	137.6	183.6	439.7	730.6	393.8	171.1	134.2	110.9	98.5
85°	43.7	47.0	77.3	89.6	132.1	204.8	122.0	89.6	80.6	59.3	56.0
87.5°	22.4	23.4	43.7	43.7	58.2	48.1	52.6	48.1	45.9	29.0	25.7
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)