

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: P214519

Luminaire Tested: **ARCH-AF24-40-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214519
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-AF24-40-D-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5367.4 lumens
Efficiency: N/A
Efficacy: 134.2 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 - G1

Input Watts (W): 40
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

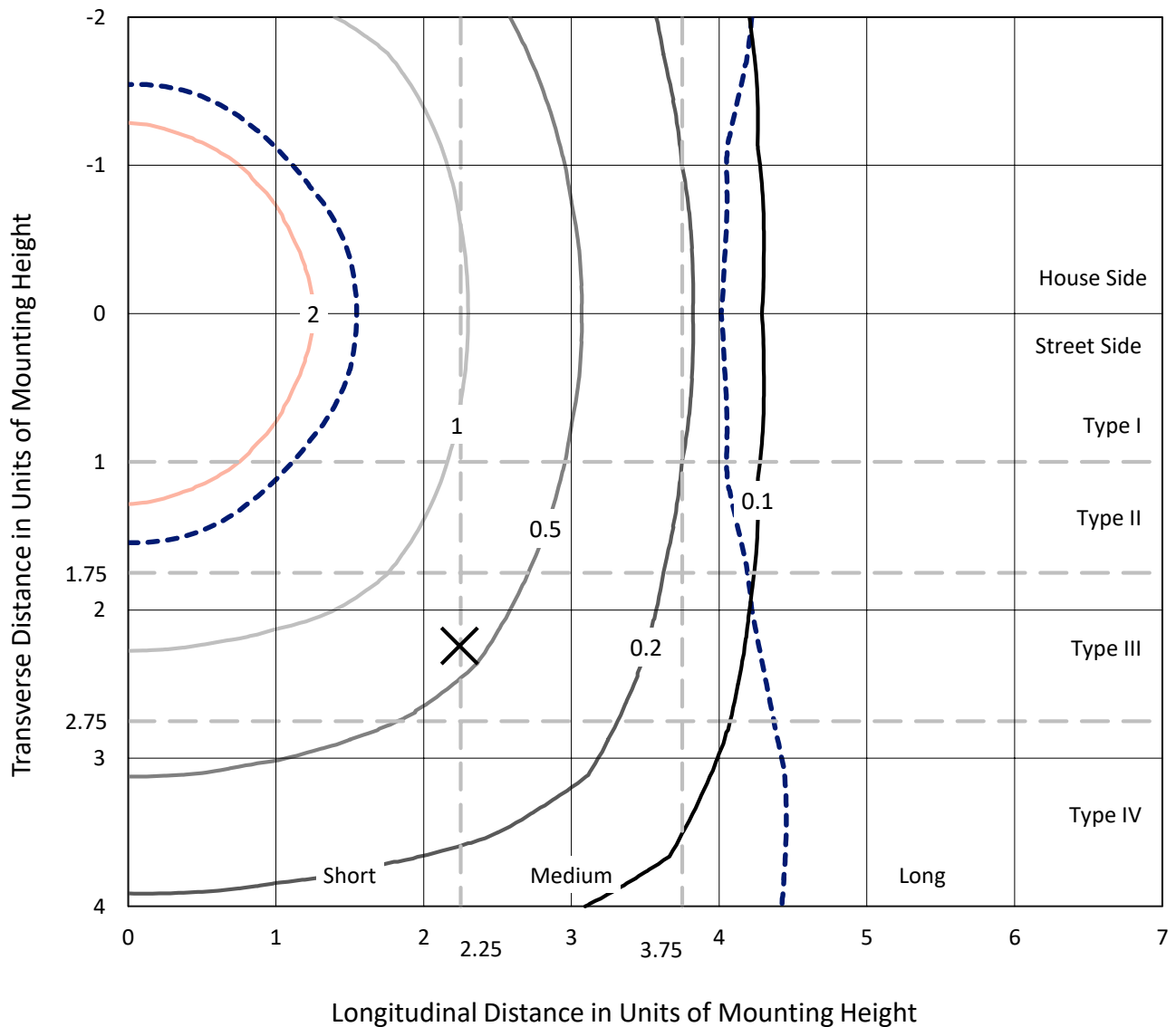


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

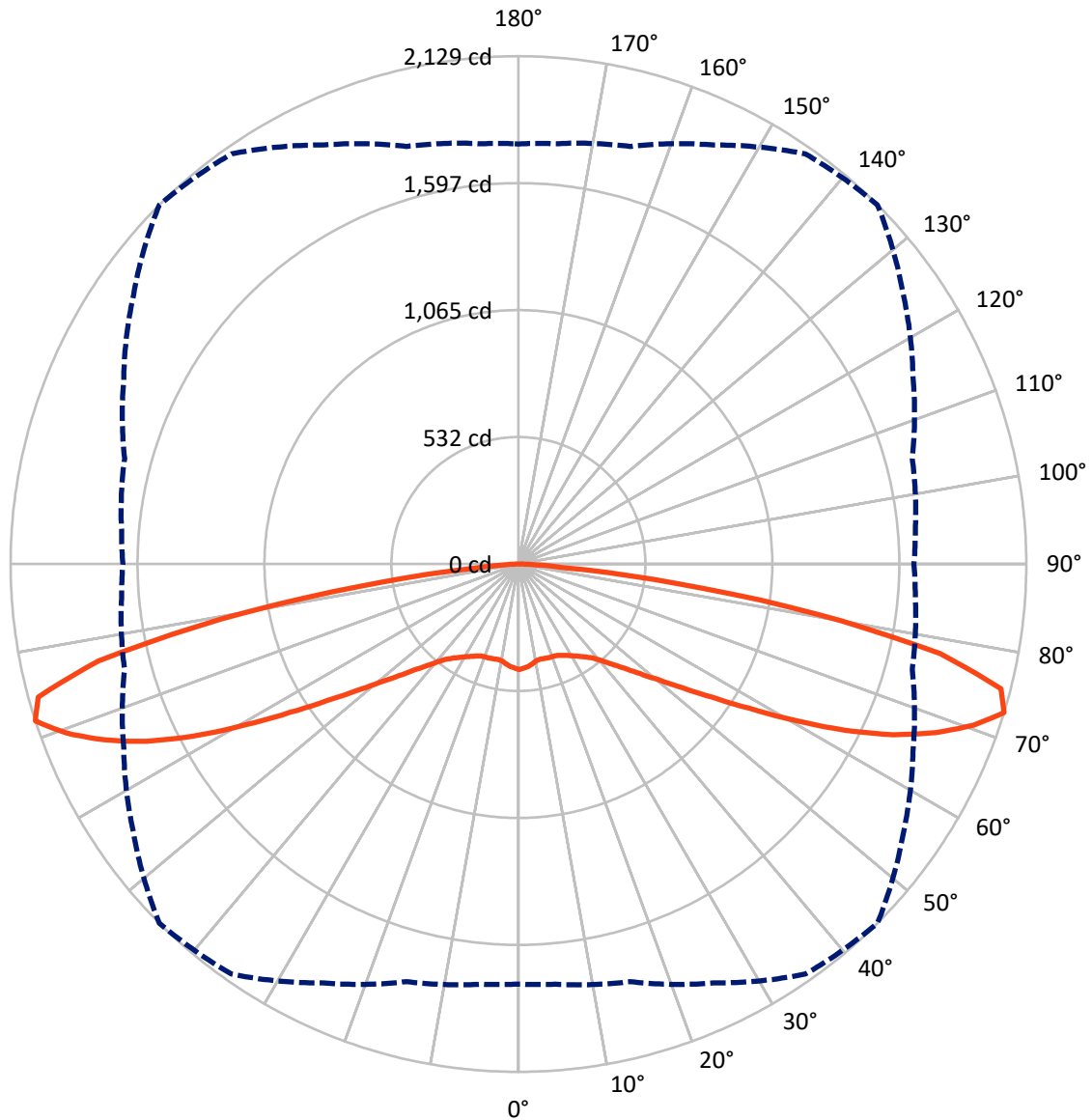


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Non-Cutoff

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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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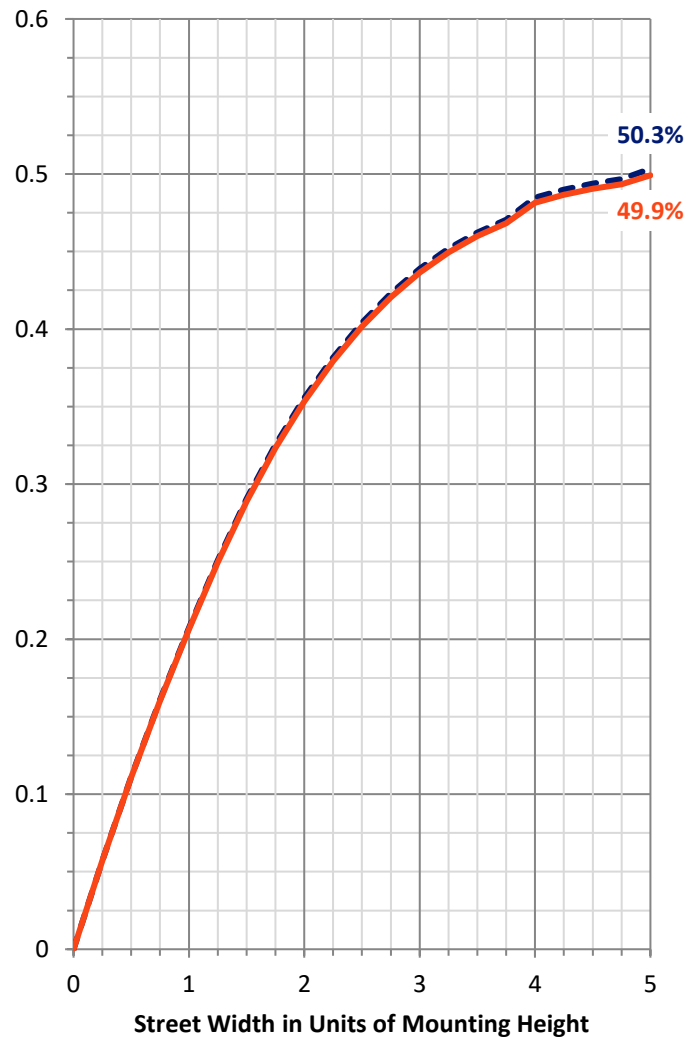
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2683.7	0.0	2683.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2683.7	0.0	2683.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	5367.4	0.0	5367.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	0.8
10°-20°	117.5	2.2
20°-30°	196.5	3.7
30°-40°	302.0	5.6
40°-50°	500.0	9.3
50°-60°	889.0	16.6
60°-70°	1555.2	29.0
70°-80°	1582.3	29.5
80°-90°	184.3	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°	5367.4	100.0
0°-180°	5367.4	100.0



--- HS — SS

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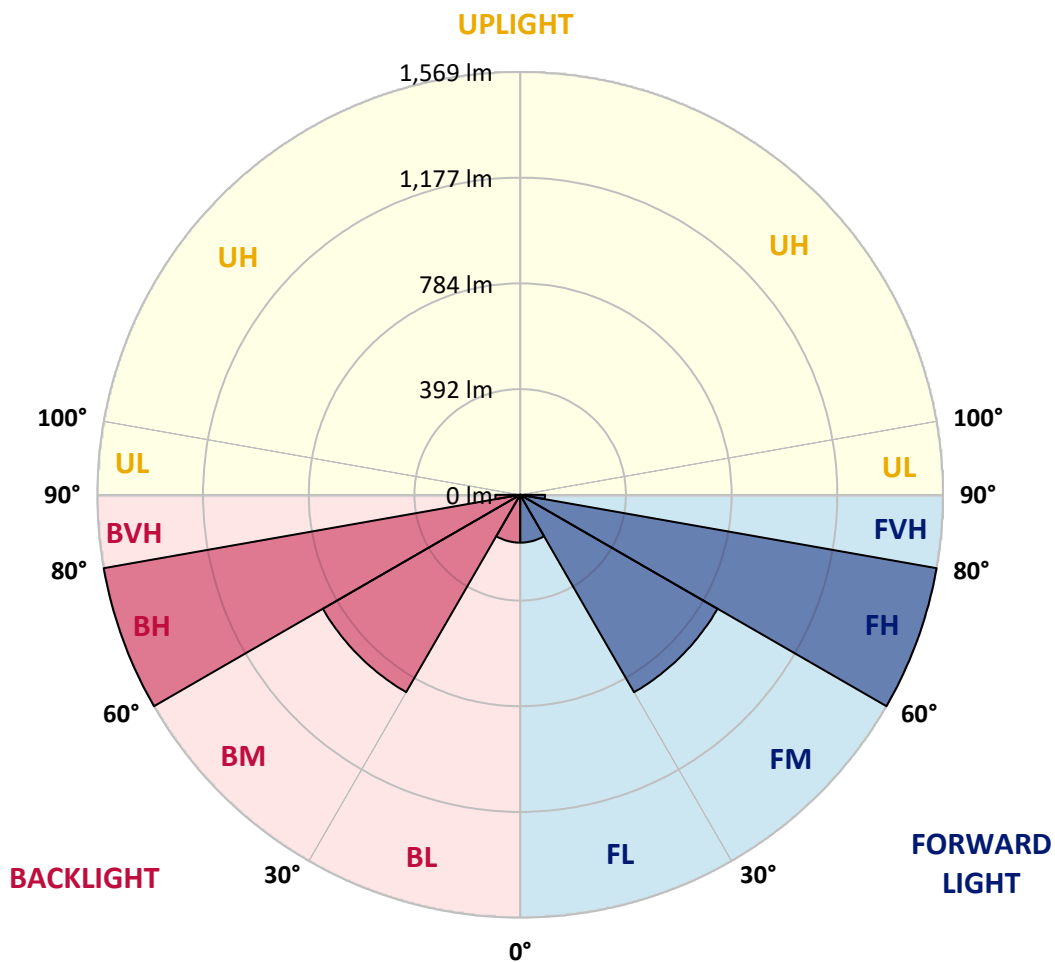
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	177.4	3.3			
FM	(30°-60°)	845.5	15.8			
FH	(60°-80°)	1568.7	29.2			G1/1800
FVH	(80°-90°)	92.1	1.7			G1/100
BL	(0°-30°)	177.4	3.3	B1/500		
BM	(30°-60°)	845.5	15.8	B1/1000		
BH	(60°-80°)	1568.7	29.2	B3/2500		G1/1800
BVH	(80°-90°)	92.1	1.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4
2.5°	438.3	439.4	437.3	437.3	437.3	436.3	437.3	436.3	437.3	438.3	438.3
5°	434.2	434.2	432.2	432.2	432.2	431.2	432.2	432.2	433.2	434.2	434.2
7.5°	425.0	425.0	424.0	423.0	422.0	422.0	423.0	423.0	424.0	425.0	425.0
10°	419.9	418.9	416.9	413.8	412.8	411.7	413.8	415.8	418.9	422.0	420.9
12.5°	417.9	416.9	412.8	409.7	407.6	408.7	410.7	412.8	417.9	420.9	419.9
15°	419.9	417.9	412.8	407.6	408.7	410.7	412.8	412.8	418.9	422.0	422.0
17.5°	419.9	418.9	412.8	408.7	409.7	412.8	413.8	412.8	417.9	423.0	423.0
20°	420.9	420.9	412.8	409.7	410.7	413.8	414.8	413.8	417.9	424.0	424.0
22.5°	423.0	422.0	413.8	411.7	413.8	415.8	416.9	415.8	419.9	425.0	426.1
25°	427.1	425.0	417.9	416.9	420.9	424.0	424.0	422.0	424.0	429.1	429.1
27.5°	432.2	431.2	423.0	423.0	428.1	434.2	431.2	427.1	429.1	434.2	434.2
30°	441.4	440.4	432.2	432.2	439.4	446.5	439.4	434.2	437.3	442.4	443.4
32.5°	454.7	454.7	447.5	445.5	457.8	460.8	457.8	447.5	449.6	456.7	456.7
35°	477.1	475.1	467.9	466.9	479.2	478.1	477.1	467.9	469.9	478.1	478.1
37.5°	506.8	505.7	499.6	496.5	502.7	498.6	500.6	496.5	501.7	507.8	508.8
40°	544.6	543.6	538.5	534.4	536.4	530.3	532.3	534.4	539.5	543.6	544.6
42.5°	591.6	591.6	586.5	579.3	576.2	573.2	573.2	577.3	582.4	587.5	587.5
45°	649.8	649.8	643.6	636.5	627.4	622.3	624.3	628.4	634.4	640.6	642.6
47.5°	718.2	718.2	710.1	703.0	693.8	687.6	687.6	689.7	698.9	704.0	707.1
50°	794.9	791.9	783.7	776.5	771.4	763.2	764.2	763.2	771.4	778.6	780.6
52.5°	874.6	873.6	865.4	863.4	866.4	862.3	862.3	852.1	855.2	859.3	858.3
55°	973.6	970.6	963.5	967.6	979.8	985.9	983.9	967.6	958.4	960.4	959.4
57.5°	1082.0	1078.9	1076.9	1089.1	1116.8	1142.2	1137.1	1099.4	1082.0	1083.0	1084.0
60°	1192.4	1192.4	1198.5	1229.1	1288.4	1330.2	1314.9	1251.6	1221.0	1214.9	1212.8
62.5°	1305.7	1308.8	1322.1	1373.2	1464.1	1533.6	1494.7	1404.8	1358.9	1346.6	1342.5
65°	1437.6	1440.6	1460.1	1523.4	1643.9	1726.6	1660.2	1575.4	1511.1	1485.5	1481.4
67.5°	1628.6	1630.7	1645.9	1707.3	1820.6	1887.1	1818.6	1743.0	1673.5	1643.9	1641.9
70°	1800.3	1802.3	1815.5	1896.2	2000.5	2024.0	1948.4	1852.4	1779.8	1756.3	1752.2
72.5°	1761.4	1768.6	1812.5	1938.2	2098.6	2129.3	1969.9	1825.8	1709.4	1670.5	1658.2
75°	1477.3	1488.6	1558.1	1747.1	2002.5	2089.4	1843.2	1578.5	1404.8	1330.2	1310.8
77.5°	862.3	904.2	1023.8	1265.9	1630.7	1807.5	1518.3	1155.5	863.4	740.7	699.9
80°	236.0	258.5	345.3	582.4	1022.7	1265.9	968.5	530.3	286.1	214.5	199.3
82.5°	74.6	99.1	125.7	167.6	401.5	667.2	359.7	156.3	122.7	101.2	89.9
85°	39.9	42.9	70.5	81.7	120.6	187.0	111.4	81.7	73.6	54.1	51.0
87.5°	20.5	21.5	39.9	39.9	53.1	43.9	48.0	43.9	41.9	26.6	23.5
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)