

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: P234676

Luminaire Tested: **ARCH-AF24-50-D-U-5WQ-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234676
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-8027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 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: 5257 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 54
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

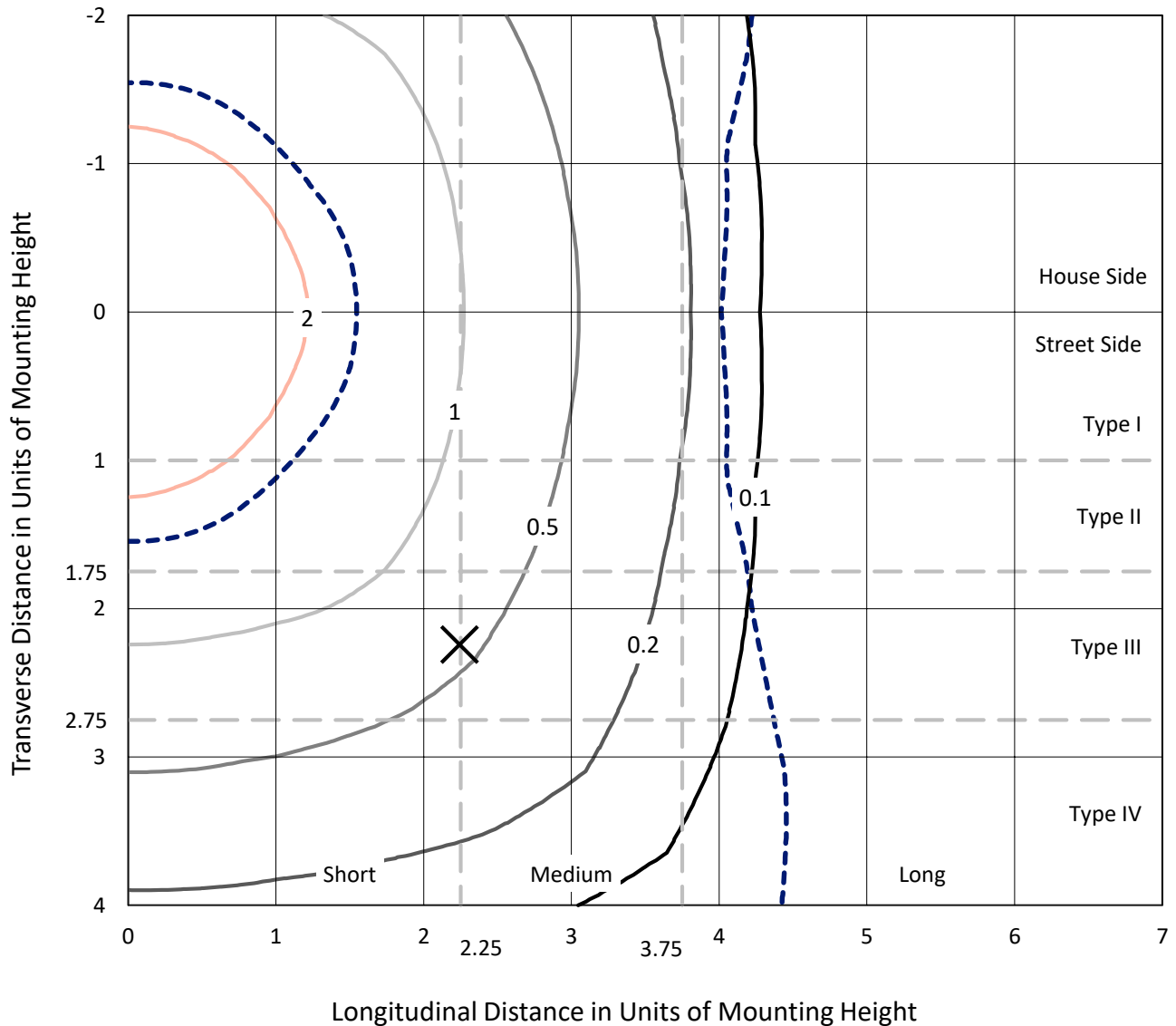


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

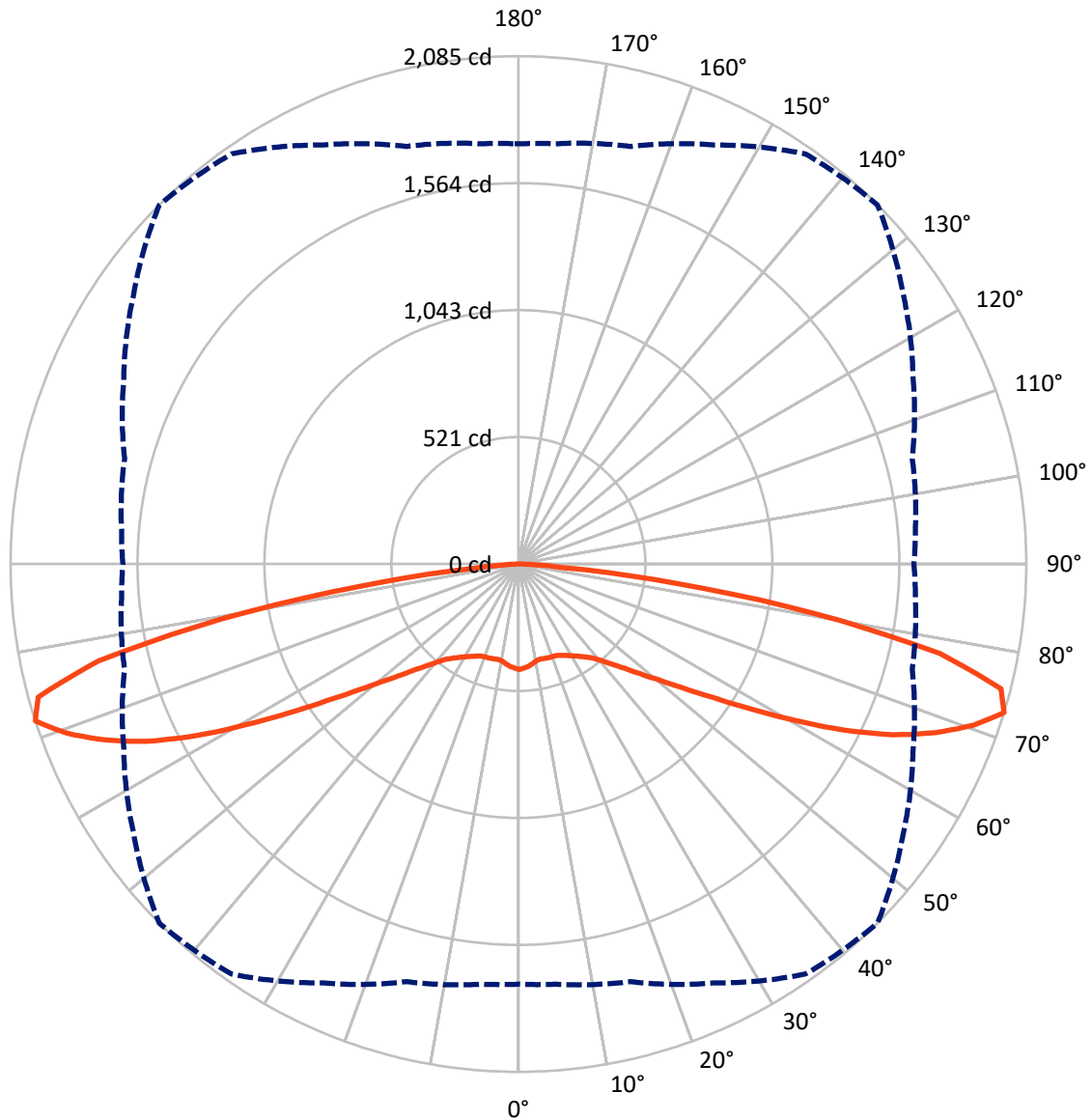


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Non-Cutoff

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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	2628.5	0.0	2628.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2628.5	0.0	2628.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5257.0	0.0	5257.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	0.8
10°-20°	115.0	2.2
20°-30°	192.5	3.7
30°-40°	295.8	5.6
40°-50°	489.7	9.3
50°-60°	870.7	16.6
60°-70°	1523.2	29.0
70°-80°	1549.7	29.5
80°-90°	180.5	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°	5257.0	100.0
0°-180°	5257.0	100.0



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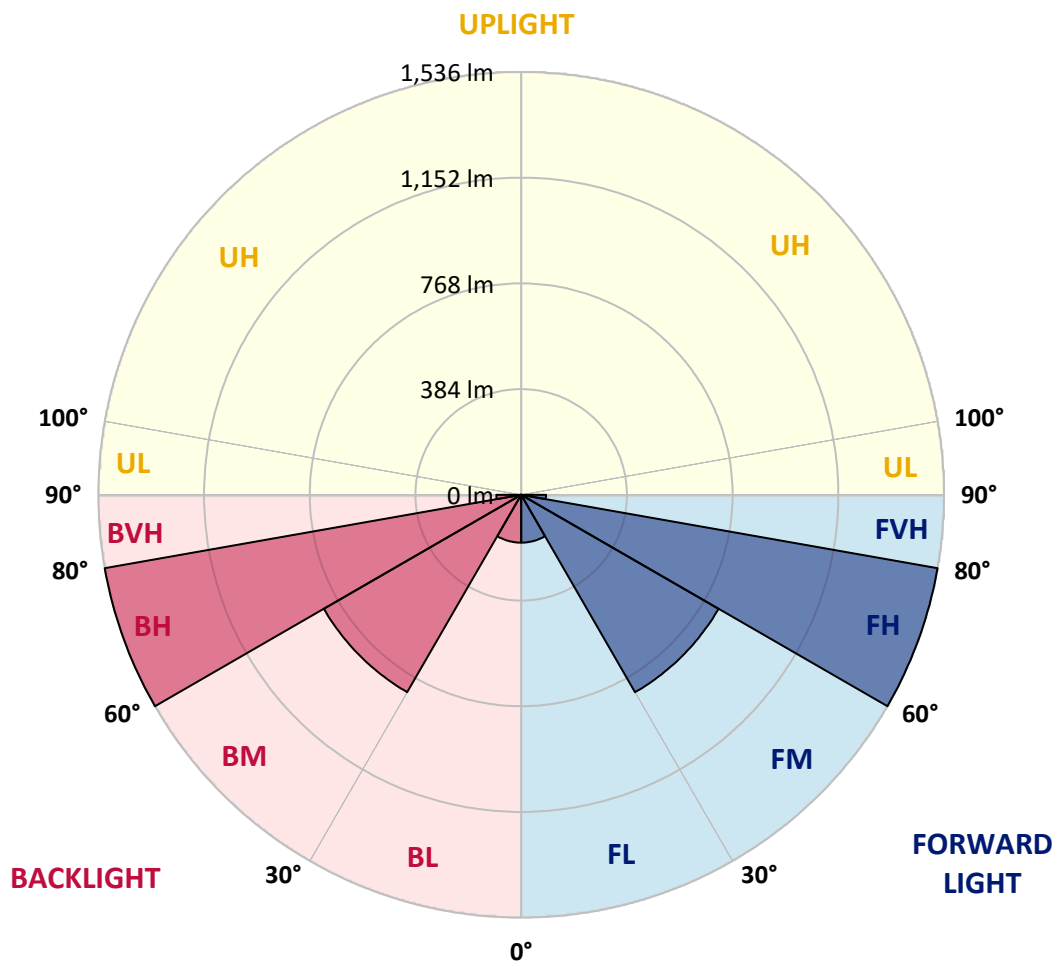
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	173.7	3.3			
FM (30°-60°)	828.1	15.8			
FH (60°-80°)	1536.5	29.2			G1/1800
FVH (80°-90°)	90.2	1.7			G1/100
BL (0°-30°)	173.7	3.3	B1/500		
BM (30°-60°)	828.1	15.8	B1/1000		
BH (60°-80°)	1536.5	29.2	B3/2500		G1/1800
BVH (80°-90°)	90.2	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°	433.3	433.3	433.3	433.3	433.3	433.3	433.3	433.3	433.3	433.3	433.3
2.5°	429.3	430.3	428.3	428.3	428.3	427.3	428.3	427.3	428.3	429.3	429.3
5°	425.3	425.3	423.3	423.3	423.3	422.3	423.3	423.3	424.3	425.3	425.3
7.5°	416.3	416.3	415.3	414.3	413.3	413.3	414.3	414.3	415.3	416.3	416.3
10°	411.3	410.3	408.3	405.3	404.3	403.3	405.3	407.3	410.3	413.3	412.3
12.5°	409.3	408.3	404.3	401.3	399.3	400.3	402.3	404.3	409.3	412.3	411.3
15°	411.3	409.3	404.3	399.3	400.3	402.3	404.3	404.3	410.3	413.3	413.3
17.5°	411.3	410.3	404.3	400.3	401.3	404.3	405.3	404.3	409.3	414.3	414.3
20°	412.3	412.3	404.3	401.3	402.3	405.3	406.3	405.3	409.3	415.3	415.3
22.5°	414.3	413.3	405.3	403.3	405.3	407.3	408.3	407.3	411.3	416.3	417.3
25°	418.3	416.3	409.3	408.3	412.3	415.3	415.3	413.3	415.3	420.3	420.3
27.5°	423.3	422.3	414.3	414.3	419.3	425.3	422.3	418.3	420.3	425.3	425.3
30°	432.3	431.3	423.3	423.3	430.3	437.3	430.3	425.3	428.3	433.3	434.3
32.5°	445.3	445.3	438.3	436.3	448.3	451.3	448.3	438.3	440.3	447.3	447.3
35°	467.3	465.3	458.3	457.3	469.3	468.3	467.3	458.3	460.3	468.3	468.3
37.5°	496.3	495.3	489.3	486.3	492.3	488.3	490.3	486.3	491.3	497.3	498.3
40°	533.4	532.4	527.4	523.4	525.4	519.4	521.4	523.4	528.4	532.4	533.4
42.5°	579.4	579.4	574.4	567.4	564.4	561.4	561.4	565.4	570.4	575.4	575.4
45°	636.4	636.4	630.4	623.4	614.4	609.4	611.4	615.4	621.4	627.4	629.4
47.5°	703.5	703.5	695.5	688.5	679.5	673.5	673.5	675.5	684.5	689.5	692.5
50°	778.5	775.5	767.5	760.5	755.5	747.5	748.5	747.5	755.5	762.5	764.5
52.5°	856.6	855.6	847.6	845.6	848.6	844.6	844.6	834.6	837.6	841.6	840.6
55°	953.7	950.7	943.7	947.7	959.7	965.7	963.7	947.7	938.6	940.6	939.6
57.5°	1059.7	1056.7	1054.7	1066.7	1093.8	1118.8	1113.8	1076.7	1059.7	1060.7	1061.7
60°	1167.8	1167.8	1173.8	1203.8	1261.9	1302.9	1287.9	1225.8	1195.8	1189.8	1187.8
62.5°	1278.9	1281.9	1294.9	1344.9	1434.0	1502.0	1464.0	1375.9	1330.9	1318.9	1314.9
65°	1408.0	1411.0	1430.0	1492.0	1610.1	1691.2	1626.1	1543.1	1480.0	1455.0	1451.0
67.5°	1595.1	1597.1	1612.1	1672.2	1783.2	1848.3	1781.2	1707.2	1639.1	1610.1	1608.1
70°	1763.2	1765.2	1778.2	1857.3	1959.4	1982.4	1908.3	1814.3	1743.2	1720.2	1716.2
72.5°	1725.2	1732.2	1775.2	1898.3	2055.4	2085.4	1929.3	1788.2	1674.2	1636.1	1624.1
75°	1447.0	1458.0	1526.1	1711.2	1961.4	2046.4	1805.2	1546.1	1375.9	1302.9	1283.9
77.5°	844.6	885.6	1002.7	1239.9	1597.1	1770.2	1487.0	1131.8	845.6	725.5	685.5
80°	231.2	253.2	338.2	570.4	1001.7	1239.9	948.7	519.4	280.2	210.1	195.1
82.5°	73.1	97.1	123.1	164.1	393.3	653.5	352.2	153.1	120.1	99.1	88.1
85°	39.0	42.0	69.0	80.1	118.1	183.1	109.1	80.1	72.0	53.0	50.0
87.5°	20.0	21.0	39.0	39.0	52.0	43.0	47.0	43.0	41.0	26.0	23.0
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)