

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: P214533

Luminaire Tested: **ARCH-AF24-40-D-U-5WQ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P214533  
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-7050  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 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: 5247 lumens  
Efficiency: N/A  
Efficacy: 131.2 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

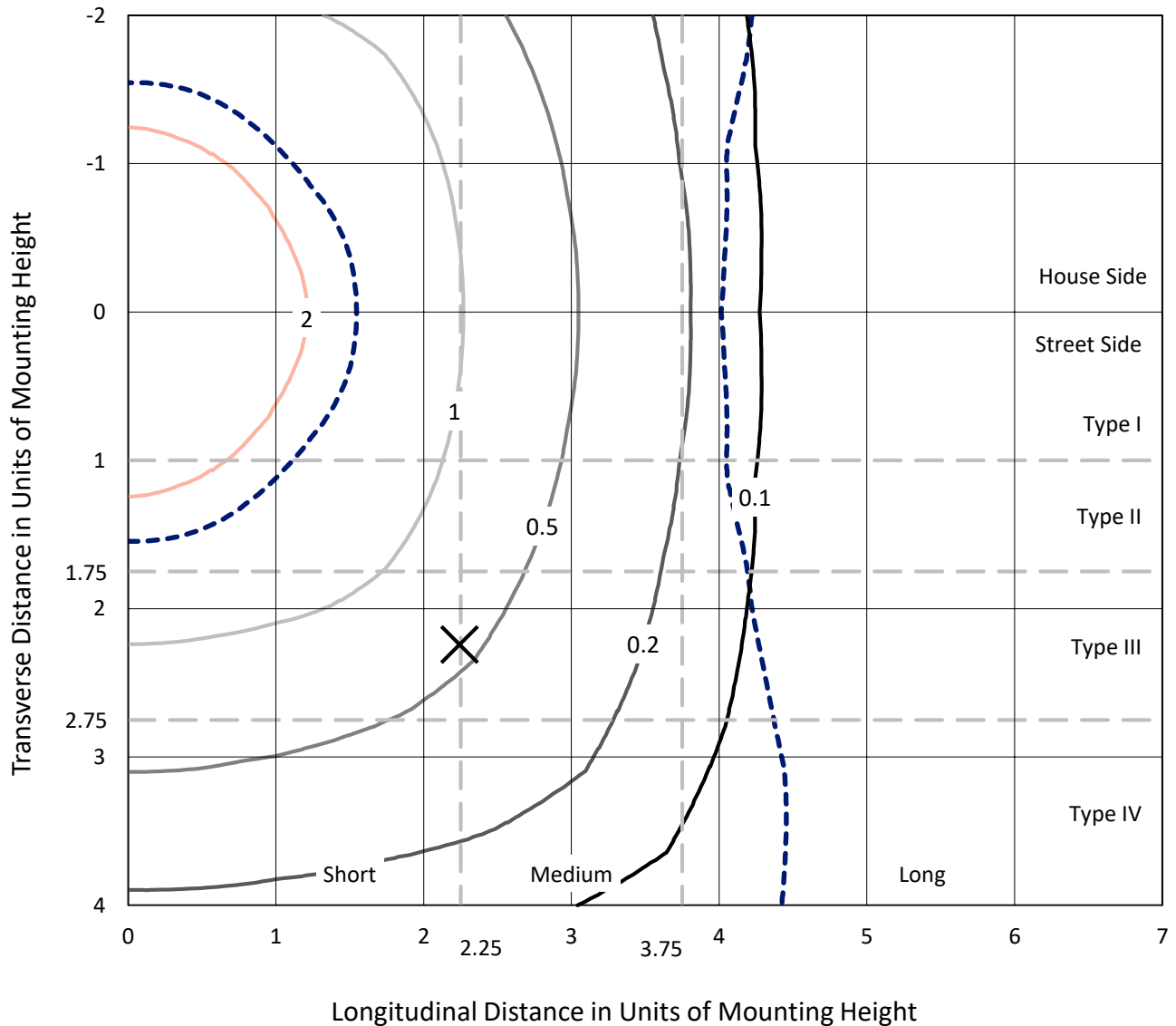


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

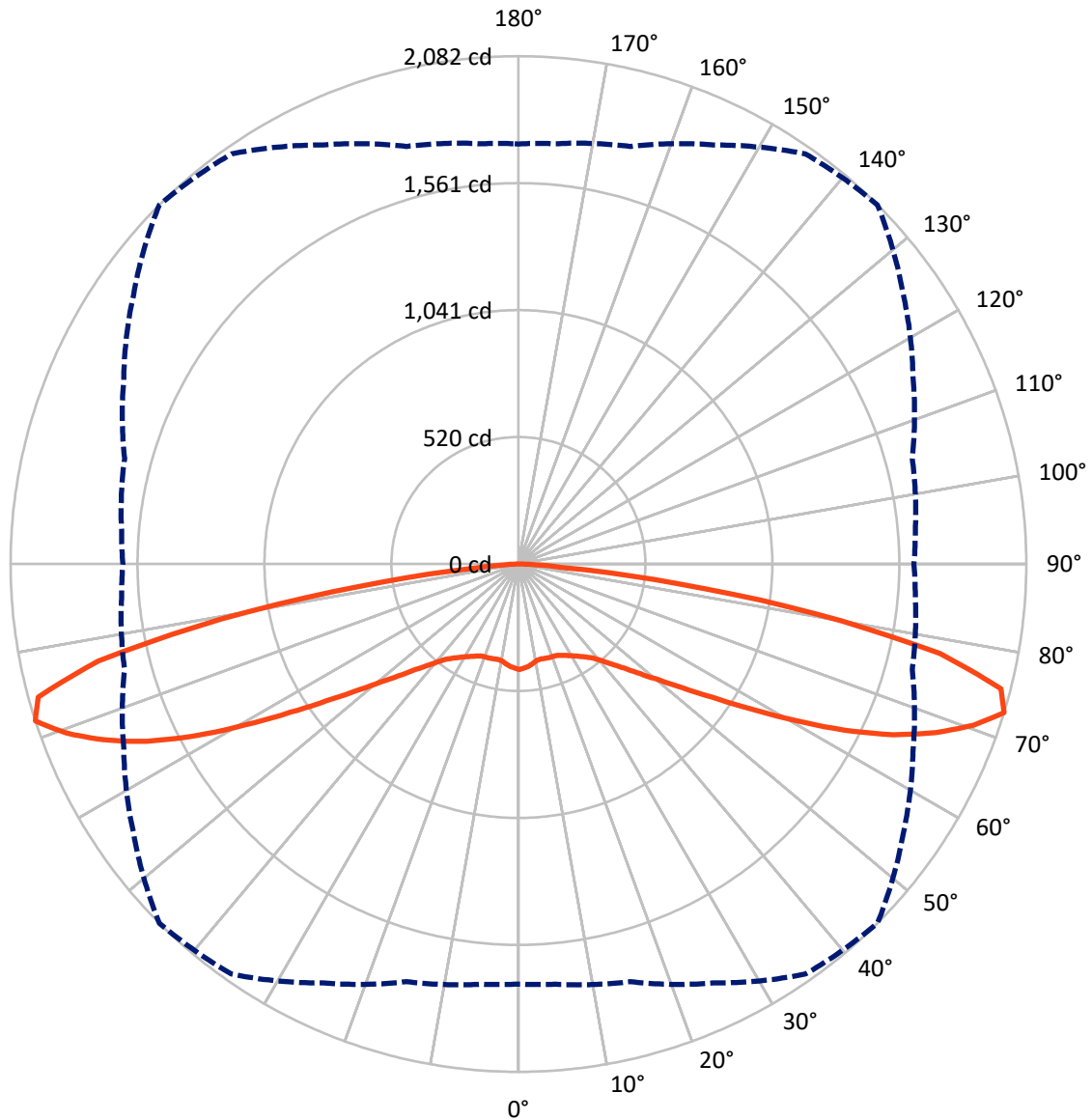


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc  
 Type V - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	2623.5	0.0	2623.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2623.5	0.0	2623.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5247.0	0.0	5247.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.8	0.8
10°-20°	114.8	2.2
20°-30°	192.1	3.7
30°-40°	295.2	5.6
40°-50°	488.8	9.3
50°-60°	869.0	16.6
60°-70°	1520.3	29.0
70°-80°	1546.8	29.5
80°-90°	180.1	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°	5247.0	100.0
0°-180°	5247.0	100.0



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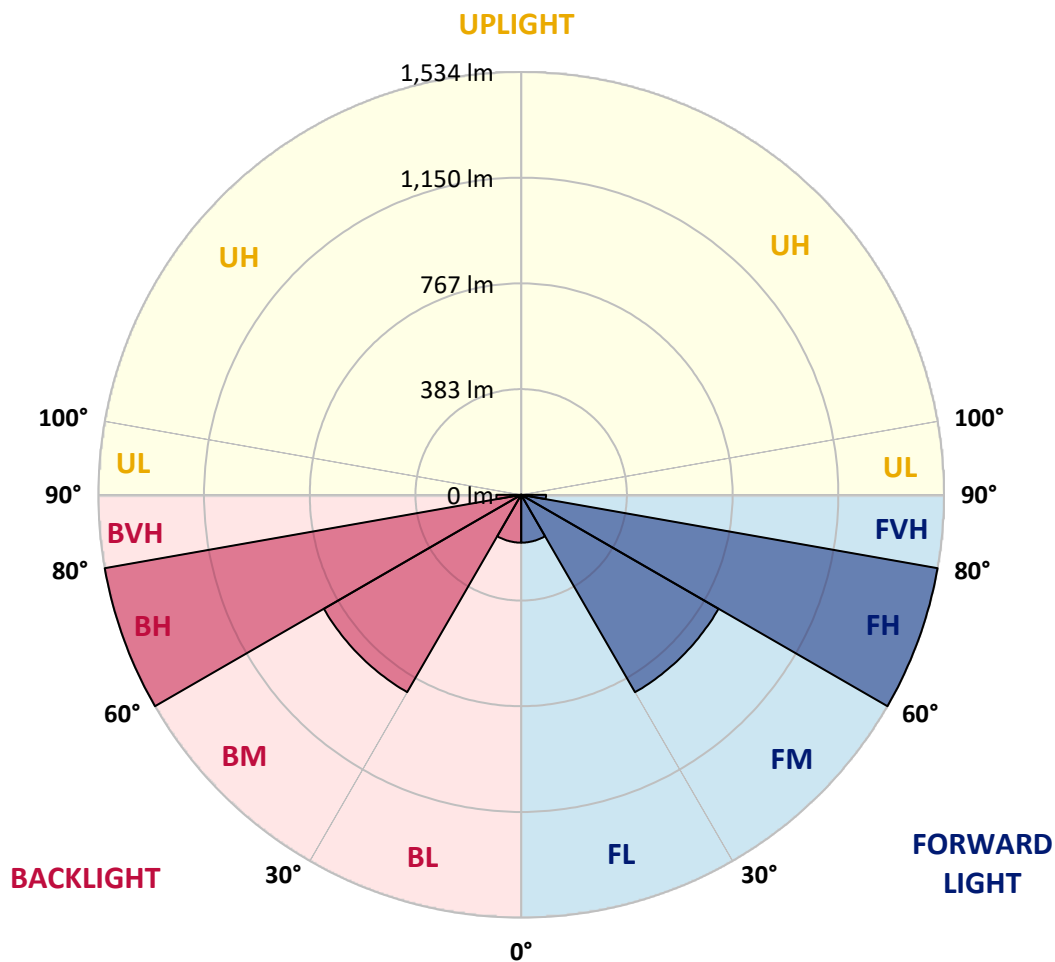
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	173.4	3.3			
FM	(30°-60°)	826.5	15.8			
FH	(60°-80°)	1533.5	29.2			G1/1800
FVH	(80°-90°)	90.1	1.7			G1/100
BL	(0°-30°)	173.4	3.3	B1/500		
BM	(30°-60°)	826.5	15.8	B1/1000		
BH	(60°-80°)	1533.5	29.2	B3/2500		G1/1800
BVH	(80°-90°)	90.1	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°	432.5	432.5	432.5	432.5	432.5	432.5	432.5	432.5	432.5	432.5	432.5
2.5°	428.5	429.5	427.5	427.5	427.5	426.5	427.5	426.5	427.5	428.5	428.5
5°	424.5	424.5	422.5	422.5	422.5	421.5	422.5	422.5	423.5	424.5	424.5
7.5°	415.5	415.5	414.5	413.5	412.5	412.5	413.5	413.5	414.5	415.5	415.5
10°	410.5	409.5	407.5	404.5	403.5	402.5	404.5	406.5	409.5	412.5	411.5
12.5°	408.5	407.5	403.5	400.5	398.5	399.5	401.5	403.5	408.5	411.5	410.5
15°	410.5	408.5	403.5	398.5	399.5	401.5	403.5	403.5	409.5	412.5	412.5
17.5°	410.5	409.5	403.5	399.5	400.5	403.5	404.5	403.5	408.5	413.5	413.5
20°	411.5	411.5	403.5	400.5	401.5	404.5	405.5	404.5	408.5	414.5	414.5
22.5°	413.5	412.5	404.5	402.5	404.5	406.5	407.5	406.5	410.5	415.5	416.5
25°	417.5	415.5	408.5	407.5	411.5	414.5	414.5	412.5	414.5	419.5	419.5
27.5°	422.5	421.5	413.5	413.5	418.5	424.5	421.5	417.5	419.5	424.5	424.5
30°	431.5	430.5	422.5	422.5	429.5	436.5	429.5	424.5	427.5	432.5	433.5
32.5°	444.5	444.5	437.5	435.5	447.5	450.5	447.5	437.5	439.5	446.5	446.5
35°	466.4	464.4	457.4	456.4	468.4	467.4	466.4	457.4	459.4	467.4	467.4
37.5°	495.4	494.4	488.4	485.4	491.4	487.4	489.4	485.4	490.4	496.4	497.4
40°	532.4	531.4	526.4	522.4	524.4	518.4	520.4	522.4	527.4	531.4	532.4
42.5°	578.3	578.3	573.3	566.3	563.3	560.3	560.3	564.3	569.3	574.3	574.3
45°	635.2	635.2	629.2	622.2	613.3	608.3	610.3	614.3	620.2	626.2	628.2
47.5°	702.1	702.1	694.2	687.2	678.2	672.2	672.2	674.2	683.2	688.2	691.2
50°	777.1	774.1	766.1	759.1	754.1	746.1	747.1	746.1	754.1	761.1	763.1
52.5°	855.0	854.0	846.0	844.0	847.0	843.0	843.0	833.0	836.0	840.0	839.0
55°	951.8	948.8	941.9	945.9	957.8	963.8	961.8	945.9	936.9	938.9	937.9
57.5°	1057.7	1054.7	1052.7	1064.7	1091.7	1116.6	1111.6	1074.7	1057.7	1058.7	1059.7
60°	1165.6	1165.6	1171.6	1201.5	1259.5	1300.4	1285.4	1223.5	1193.6	1187.6	1185.6
62.5°	1276.4	1279.4	1292.4	1342.4	1431.3	1499.2	1461.2	1373.3	1328.4	1316.4	1312.4
65°	1405.3	1408.3	1427.3	1489.2	1607.0	1687.9	1623.0	1540.1	1477.2	1452.2	1448.2
67.5°	1592.1	1594.1	1609.0	1669.0	1779.8	1844.8	1777.8	1703.9	1636.0	1607.0	1605.1
70°	1759.9	1761.9	1774.8	1853.7	1955.6	1978.6	1904.7	1810.8	1739.9	1716.9	1712.9
72.5°	1721.9	1728.9	1771.8	1894.7	2051.5	2081.5	1925.7	1784.8	1671.0	1633.0	1621.0
75°	1444.2	1455.2	1523.1	1707.9	1957.6	2042.5	1801.8	1543.1	1373.3	1300.4	1281.4
77.5°	843.0	883.9	1000.8	1237.5	1594.1	1766.9	1484.2	1129.6	844.0	724.1	684.2
80°	230.7	252.7	337.6	569.3	999.8	1237.5	946.8	518.4	279.7	209.7	194.8
82.5°	72.9	96.9	122.9	163.8	392.5	652.2	351.6	152.8	119.9	98.9	87.9
85°	39.0	41.9	68.9	79.9	117.9	182.8	108.9	79.9	71.9	52.9	49.9
87.5°	20.0	21.0	39.0	39.0	51.9	42.9	46.9	42.9	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)