

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: P214529

Luminaire Tested: **ARCH-AF16-50-D-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214529
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-AF16-50-D-U-5WQ-7050
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 980mA LIGHT ENGINE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6092 lumens
Efficiency: N/A
Efficacy: 114.9 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

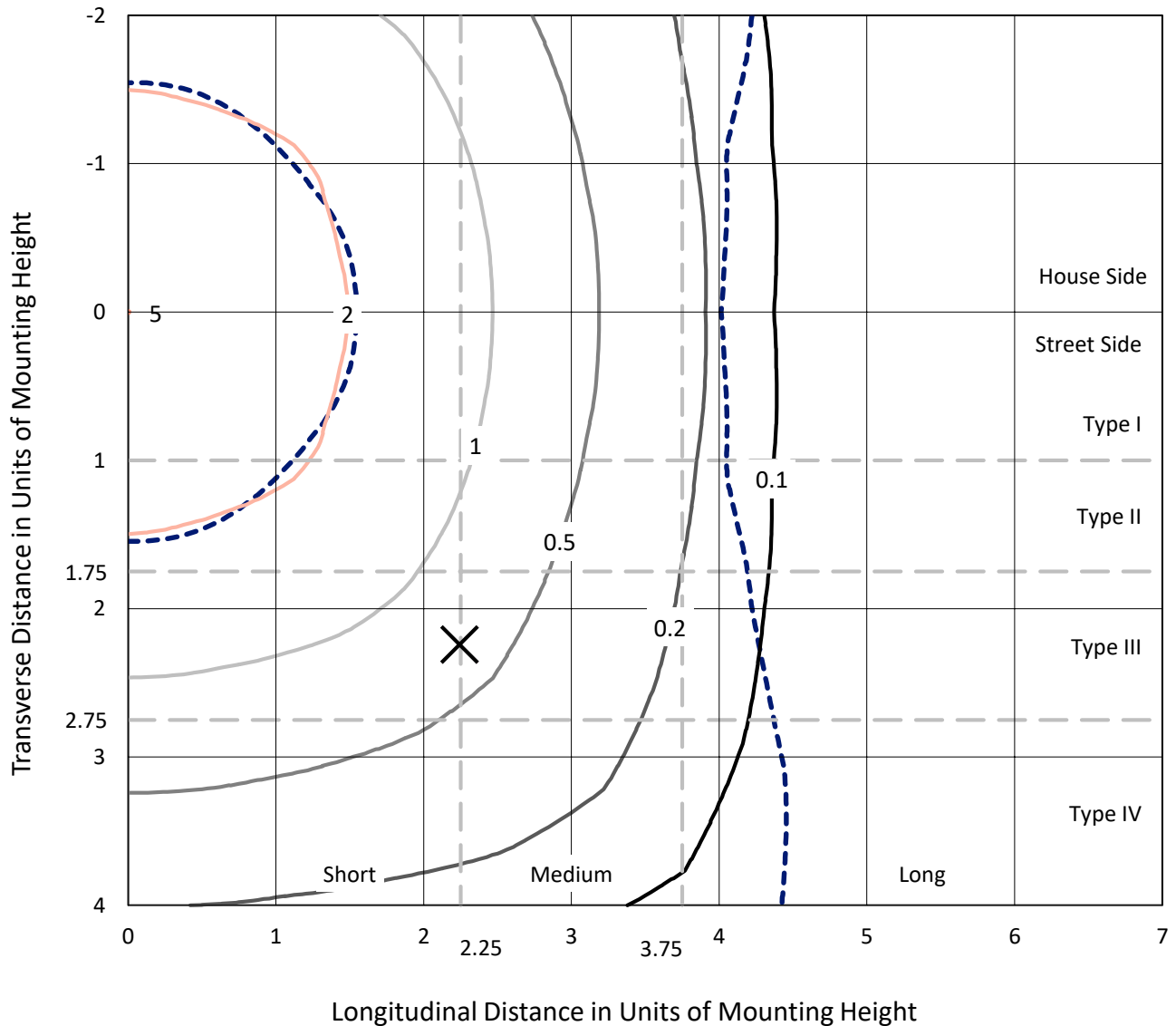
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

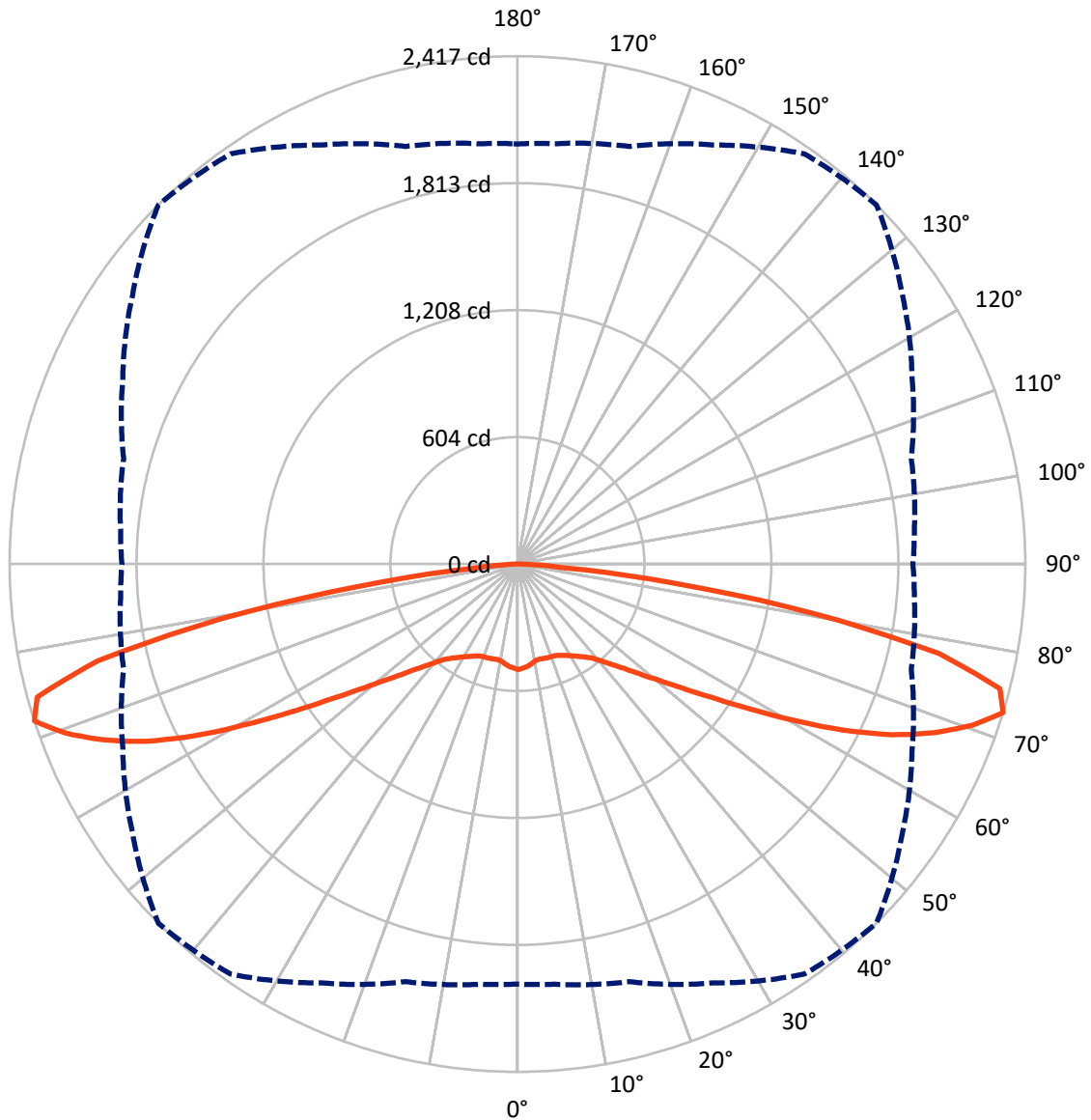


Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Non-Cutoff

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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	3046.0	0.0	3046.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3046.0	0.0	3046.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6092.0	0.0	6092.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.2	0.8
10°-20°	133.3	2.2
20°-30°	223.1	3.7
30°-40°	342.8	5.6
40°-50°	567.5	9.3
50°-60°	1009.0	16.6
60°-70°	1765.2	29.0
70°-80°	1795.9	29.5
80°-90°	209.1	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°	6092.0	100.0
0°-180°	6092.0	100.0



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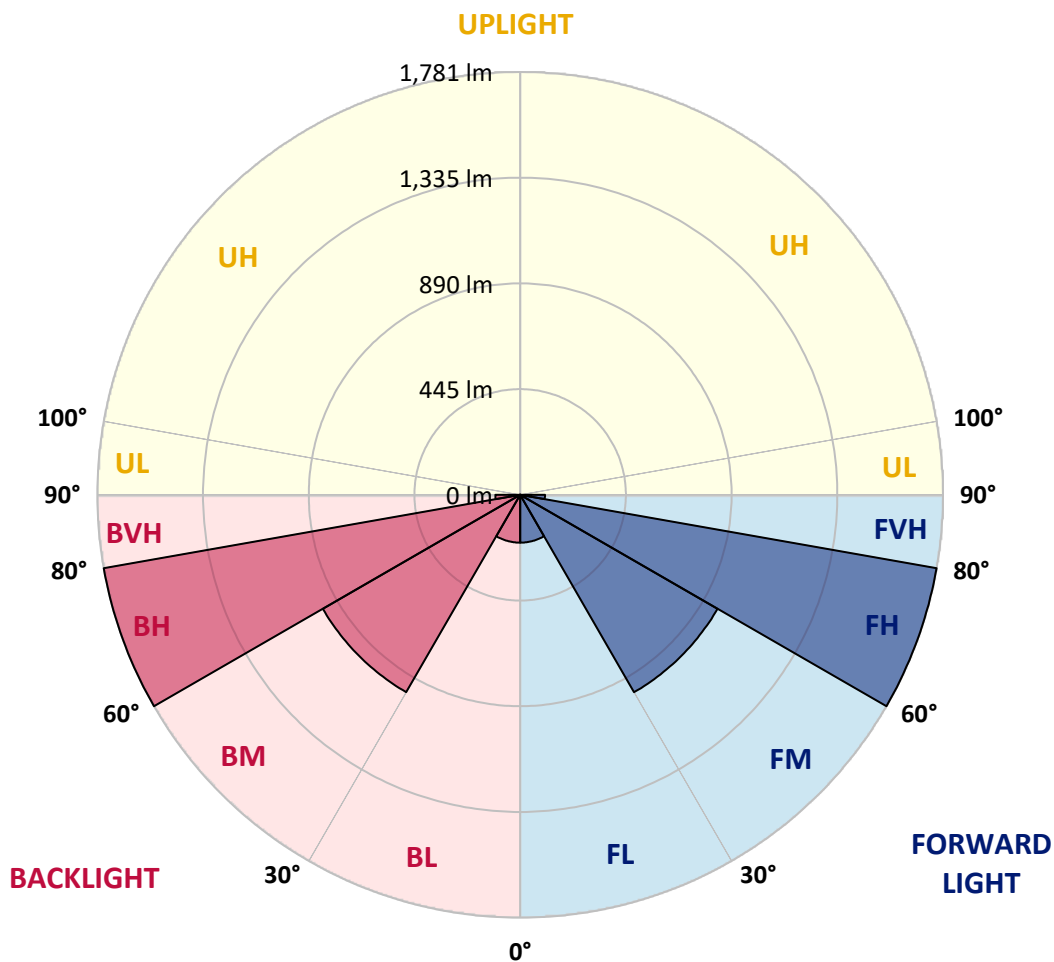
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	201.3	3.3			
FM	(30°-60°)	959.6	15.8			
FH	(60°-80°)	1780.5	29.2			G1/1800
FVH	(80°-90°)	104.6	1.7			G2/225
BL	(0°-30°)	201.3	3.3	B1/500		
BM	(30°-60°)	959.6	15.8	B1/1000		
BH	(60°-80°)	1780.5	29.2	B3/2500		G1/1800
BVH	(80°-90°)	104.6	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°	502.1	502.1	502.1	502.1	502.1	502.1	502.1	502.1	502.1	502.1	502.1
2.5°	497.5	498.6	496.3	496.3	496.3	495.2	496.3	495.2	496.3	497.5	497.5
5°	492.8	492.8	490.5	490.5	490.5	489.4	490.5	490.5	491.7	492.8	492.8
7.5°	482.4	482.4	481.2	480.1	478.9	478.9	480.1	480.1	481.2	482.4	482.4
10°	476.6	475.5	473.1	469.7	468.5	467.3	469.7	472.0	475.5	478.9	477.8
12.5°	474.3	473.1	468.5	465.0	462.7	463.9	466.2	468.5	474.3	477.8	476.6
15°	476.6	474.3	468.5	462.7	463.9	466.2	468.5	468.5	475.5	478.9	478.9
17.5°	476.6	475.5	468.5	463.9	465.0	468.5	469.7	468.5	474.3	480.1	480.1
20°	477.8	477.8	468.5	465.0	466.2	469.7	470.8	469.7	474.3	481.2	481.2
22.5°	480.1	478.9	469.7	467.3	469.7	472.0	473.1	472.0	476.6	482.4	483.6
25°	484.7	482.4	474.3	473.1	477.8	481.2	481.2	478.9	481.2	487.0	487.0
27.5°	490.5	489.4	480.1	480.1	485.9	492.8	489.4	484.7	487.0	492.8	492.8
30°	501.0	499.8	490.5	490.5	498.6	506.8	498.6	492.8	496.3	502.1	503.3
32.5°	516.0	516.0	507.9	505.6	519.5	523.0	519.5	507.9	510.2	518.4	518.4
35°	541.5	539.2	531.1	530.0	543.9	542.7	541.5	531.1	533.4	542.7	542.7
37.5°	575.2	574.0	567.1	563.6	570.5	565.9	568.2	563.6	569.4	576.3	577.5
40°	618.1	616.9	611.1	606.5	608.8	601.9	604.2	606.5	612.3	616.9	618.1
42.5°	671.4	671.4	665.6	657.5	654.0	650.6	650.6	655.2	661.0	666.8	666.8
45°	737.5	737.5	730.6	722.5	712.0	706.2	708.5	713.2	720.1	727.1	729.4
47.5°	815.2	815.2	805.9	797.8	787.4	780.4	780.4	782.8	793.2	799.0	802.5
50°	902.2	898.7	889.4	881.3	875.5	866.2	867.4	866.2	875.5	883.6	886.0
52.5°	992.6	991.5	982.2	979.9	983.4	978.7	978.7	967.1	970.6	975.3	974.1
55°	1105.1	1101.7	1093.5	1098.2	1112.1	1119.0	1116.7	1098.2	1087.7	1090.1	1088.9
57.5°	1228.1	1224.6	1222.3	1236.2	1267.5	1296.5	1290.7	1247.8	1228.1	1229.2	1230.4
60°	1353.3	1353.3	1360.3	1395.0	1462.3	1509.8	1492.5	1420.6	1385.8	1378.8	1376.5
62.5°	1482.0	1485.5	1500.6	1558.6	1661.8	1740.6	1696.5	1594.5	1542.3	1528.4	1523.8
65°	1631.6	1635.1	1657.1	1729.0	1865.9	1959.8	1884.4	1788.2	1715.1	1686.1	1681.5
67.5°	1848.5	1850.8	1868.2	1937.8	2066.5	2141.8	2064.2	1978.3	1899.5	1865.9	1863.5
70°	2043.3	2045.6	2060.7	2152.3	2270.6	2297.2	2211.4	2102.4	2020.1	1993.4	1988.8
72.5°	1999.2	2007.3	2057.2	2199.8	2381.9	2416.7	2235.8	2072.3	1940.1	1896.0	1882.1
75°	1676.8	1689.6	1768.4	1983.0	2272.9	2371.5	2092.0	1791.6	1594.5	1509.8	1487.8
77.5°	978.7	1026.3	1162.0	1436.8	1850.8	2051.4	1723.2	1311.5	979.9	840.7	794.4
80°	267.9	293.4	392.0	661.0	1160.8	1436.8	1099.3	601.9	324.7	243.5	226.1
82.5°	84.7	112.5	142.6	190.2	455.7	757.2	408.2	177.4	139.2	114.8	102.0
85°	45.2	48.7	80.0	92.8	136.8	212.2	126.4	92.8	83.5	61.5	58.0
87.5°	23.2	24.4	45.2	45.2	60.3	49.9	54.5	49.9	47.5	30.2	26.7
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)