

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: P214501

Luminaire Tested: **ARCH-AF16-50-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214501
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-7030
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 5892.4 lumens
Efficiency: N/A
Efficacy: 111.2 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 - G2

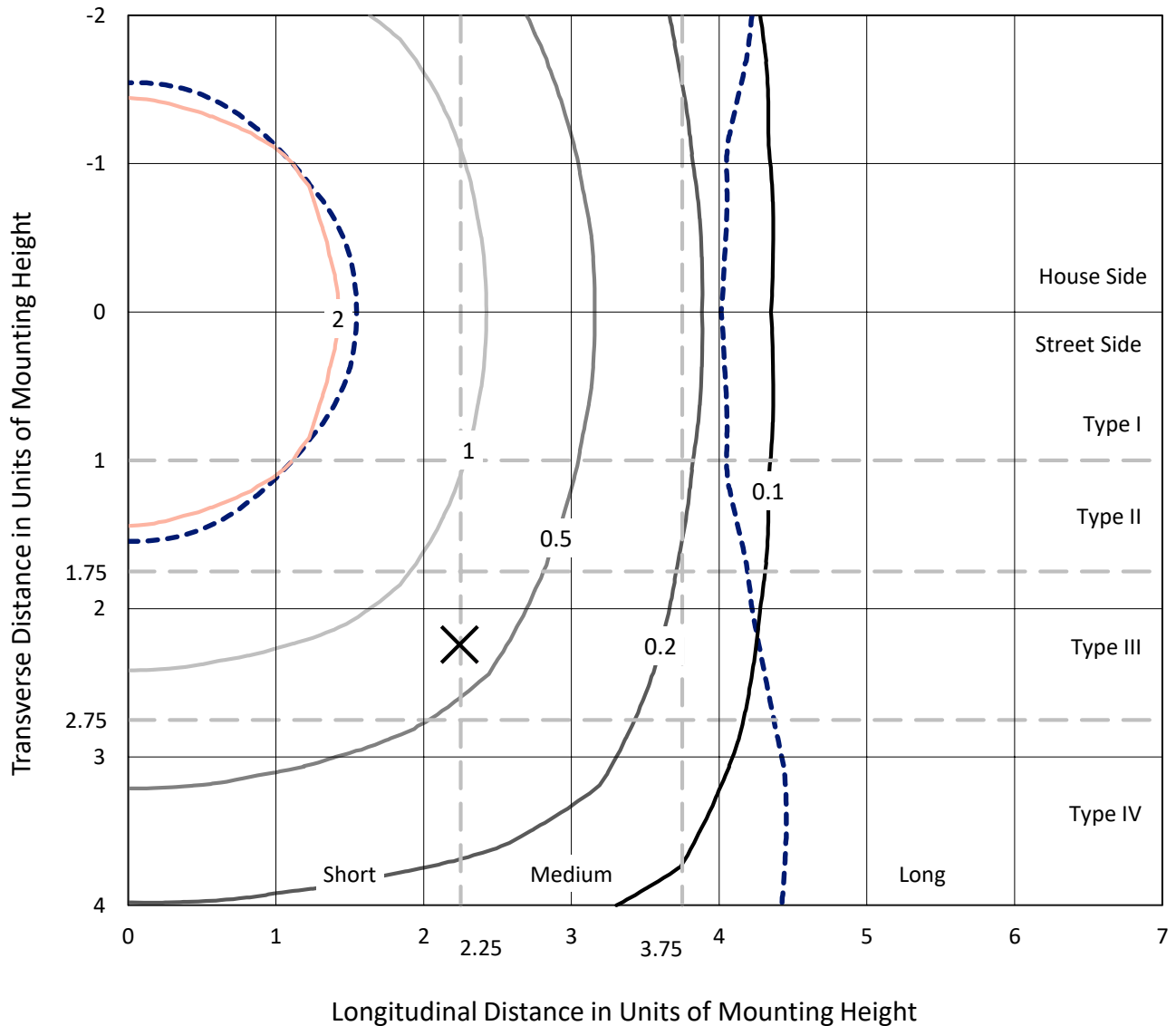
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P214501
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

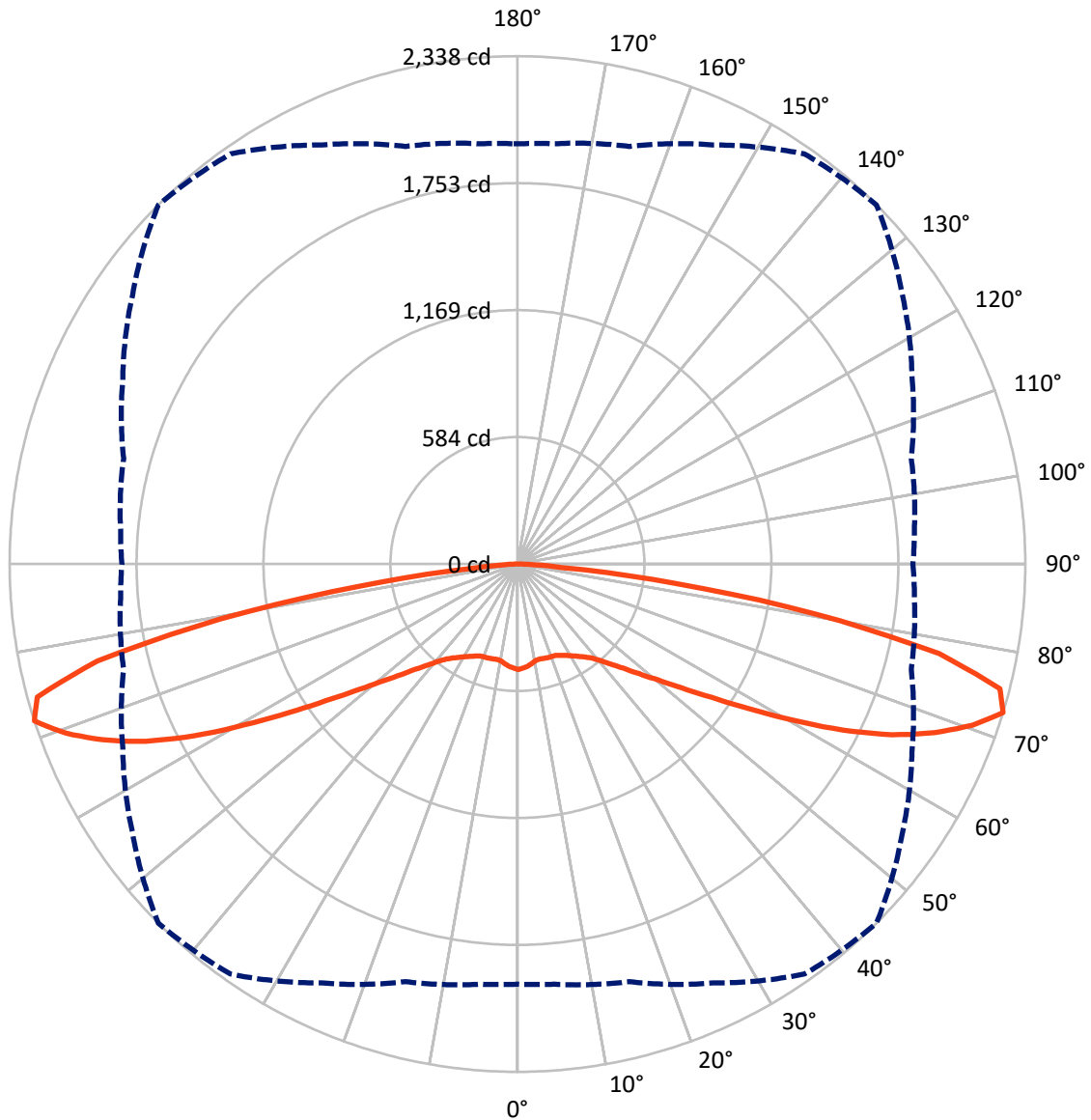


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P214501

CATALOG NUMBER: ARCH-AF16-50-D-U-5WQ-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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CATALOG NUMBER: ARCH-AF16-50-D-U-5WQ-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2946.2	0.0	2946.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2946.2	0.0	2946.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5892.4	0.0	5892.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	0.8
10°-20°	128.9	2.2
20°-30°	215.8	3.7
30°-40°	331.5	5.6
40°-50°	548.9	9.3
50°-60°	975.9	16.6
60°-70°	1707.3	29.0
70°-80°	1737.0	29.5
80°-90°	202.3	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°	5892.4	100.0
0°-180°	5892.4	100.0



REPORT NUMBER: P214501

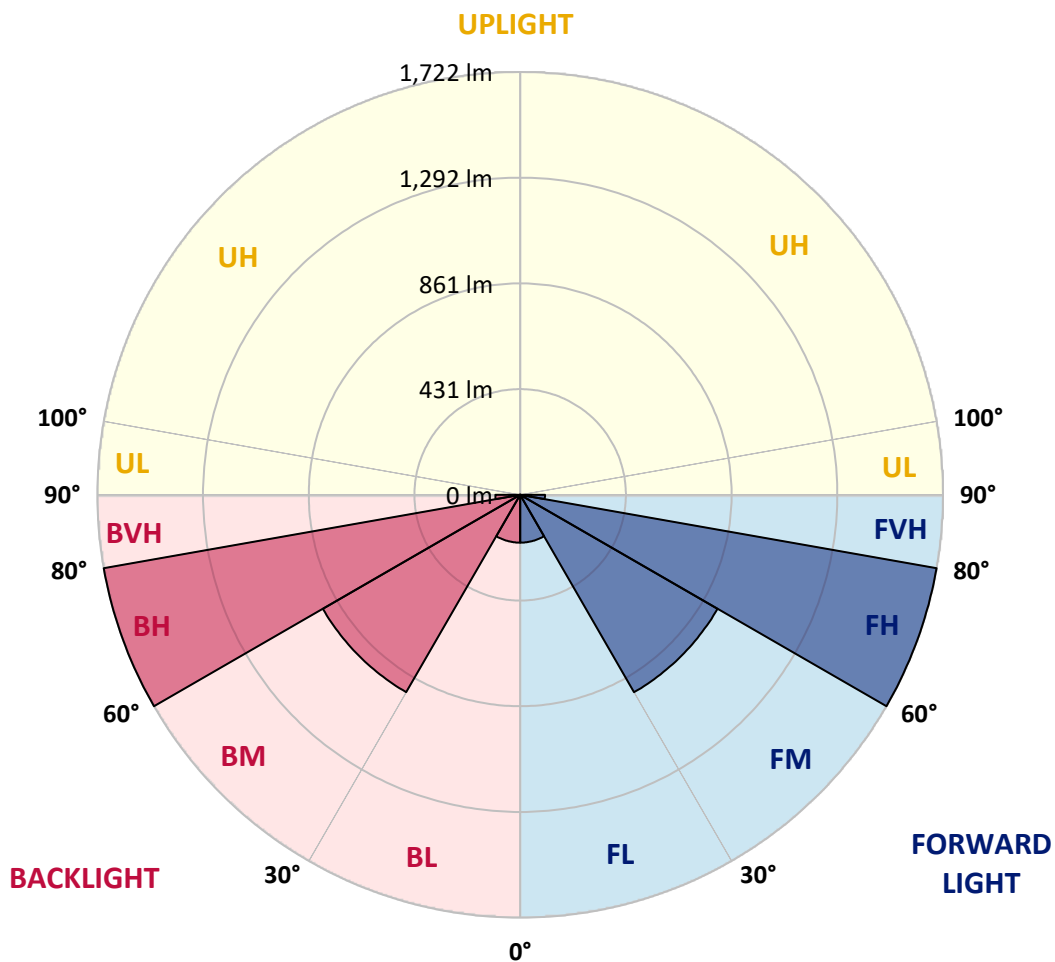
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	194.7	3.3			
FM (30°-60°)	928.2	15.8			
FH (60°-80°)	1722.2	29.2			G1/1800
FVH (80°-90°)	101.1	1.7			G2/225
BL (0°-30°)	194.7	3.3	B1/500		
BM (30°-60°)	928.2	15.8	B1/1000		
BH (60°-80°)	1722.2	29.2	B3/2500		G1/1800
BVH (80°-90°)	101.1	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°	485.6	485.6	485.6	485.6	485.6	485.6	485.6	485.6	485.6	485.6	485.6
2.5°	481.2	482.3	480.0	480.0	480.0	478.9	480.0	478.9	480.0	481.2	481.2
5°	476.7	476.7	474.4	474.4	474.4	473.3	474.4	474.4	475.6	476.7	476.7
7.5°	466.6	466.6	465.5	464.4	463.3	463.3	464.4	464.4	465.5	466.6	466.6
10°	461.0	459.9	457.6	454.3	453.1	452.0	454.3	456.4	459.9	463.3	462.1
12.5°	458.8	457.6	453.1	449.8	447.5	448.6	450.9	453.1	458.8	462.1	461.0
15°	461.0	458.8	453.1	447.5	448.6	450.9	453.1	453.1	459.9	463.3	463.3
17.5°	461.0	459.9	453.1	448.6	449.8	453.1	454.3	453.1	458.8	464.4	464.4
20°	462.1	462.1	453.1	449.8	450.9	454.3	455.4	454.3	458.8	465.5	465.5
22.5°	464.4	463.3	454.3	452.0	454.3	456.4	457.6	456.4	461.0	466.6	467.7
25°	468.8	466.6	458.8	457.6	462.1	465.5	465.5	463.3	465.5	471.1	471.1
27.5°	474.4	473.3	464.4	464.4	470.0	476.7	473.3	468.8	471.1	476.7	476.7
30°	484.6	483.5	474.4	474.4	482.3	490.1	482.3	476.7	480.0	485.6	486.7
32.5°	499.1	499.1	491.2	489.1	502.5	505.9	502.5	491.2	493.6	501.4	501.4
35°	523.8	521.6	513.7	512.5	526.1	524.9	523.8	513.7	515.9	524.9	524.9
37.5°	556.3	555.2	548.5	545.1	551.9	547.4	549.6	545.1	550.7	557.4	558.6
40°	597.8	596.7	591.1	586.6	588.9	582.2	584.3	586.6	592.1	596.7	597.8
42.5°	649.4	649.4	643.9	636.0	632.6	629.3	629.3	633.7	639.2	644.9	644.9
45°	713.4	713.4	706.6	698.8	688.7	683.1	685.3	689.8	696.5	703.3	705.5
47.5°	788.6	788.6	779.6	771.7	761.5	754.9	754.9	757.0	767.2	772.8	776.2
50°	872.7	869.2	860.3	852.4	846.9	837.9	839.0	837.9	846.9	854.7	856.9
52.5°	960.2	959.0	950.0	947.9	951.1	946.6	946.6	935.5	938.7	943.4	942.2
55°	1068.9	1065.5	1057.7	1062.2	1075.6	1082.3	1080.1	1062.2	1052.0	1054.4	1053.3
57.5°	1187.7	1184.5	1182.1	1195.7	1226.0	1254.0	1248.4	1206.9	1187.7	1189.0	1190.1
60°	1308.9	1308.9	1315.7	1349.4	1414.4	1460.4	1443.6	1374.1	1340.4	1333.6	1331.4
62.5°	1433.5	1436.8	1451.4	1507.4	1607.3	1683.5	1641.0	1542.2	1491.7	1478.3	1473.8
65°	1578.1	1581.5	1602.9	1672.3	1804.8	1895.5	1822.7	1729.6	1658.9	1630.8	1626.4
67.5°	1787.9	1790.1	1806.9	1874.3	1998.8	2071.7	1996.5	1913.4	1837.2	1804.8	1802.4
70°	1976.3	1978.5	1993.1	2081.7	2196.1	2222.0	2139.0	2033.6	1953.9	1928.1	1923.6
72.5°	1933.7	1941.5	1989.8	2127.8	2303.8	2337.5	2162.5	2004.4	1876.5	1833.9	1820.4
75°	1621.9	1634.2	1710.5	1917.9	2198.4	2293.8	2023.4	1733.0	1542.2	1460.4	1439.1
77.5°	946.6	992.6	1123.8	1389.7	1790.1	1984.1	1666.7	1268.6	947.9	813.2	768.3
80°	259.1	283.7	379.1	639.2	1122.7	1389.7	1063.3	582.2	314.0	235.6	218.7
82.5°	81.8	108.8	138.0	184.0	440.8	732.5	394.9	171.6	134.6	111.0	98.7
85°	43.7	47.1	77.3	89.7	132.3	205.3	122.3	89.7	80.8	59.4	56.0
87.5°	22.4	23.6	43.7	43.7	58.4	48.2	52.7	48.2	46.0	29.2	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)