

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: P214515

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214515
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
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 6231.8 lumens
Efficiency: N/A
Efficacy: 117.6 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

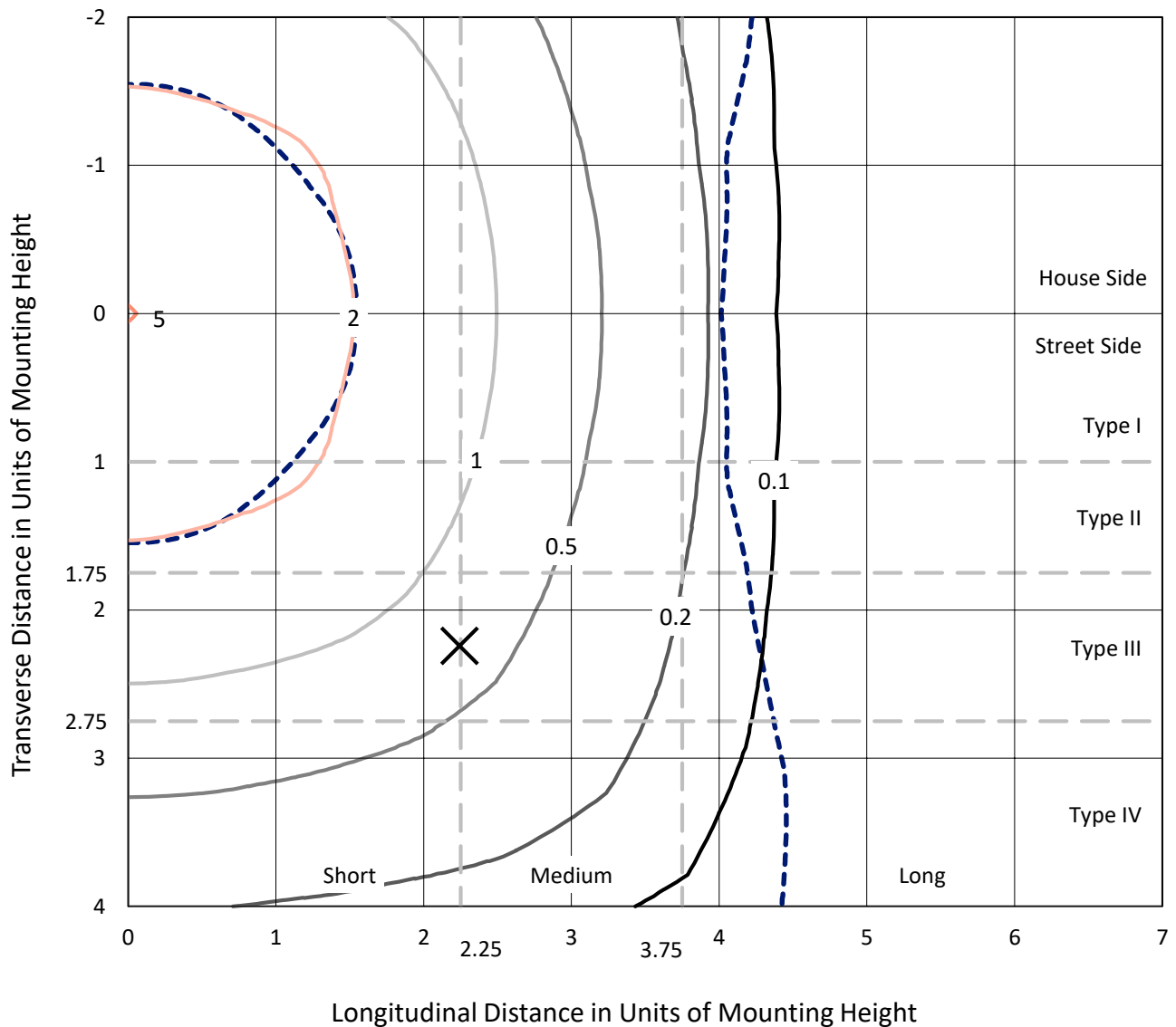


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

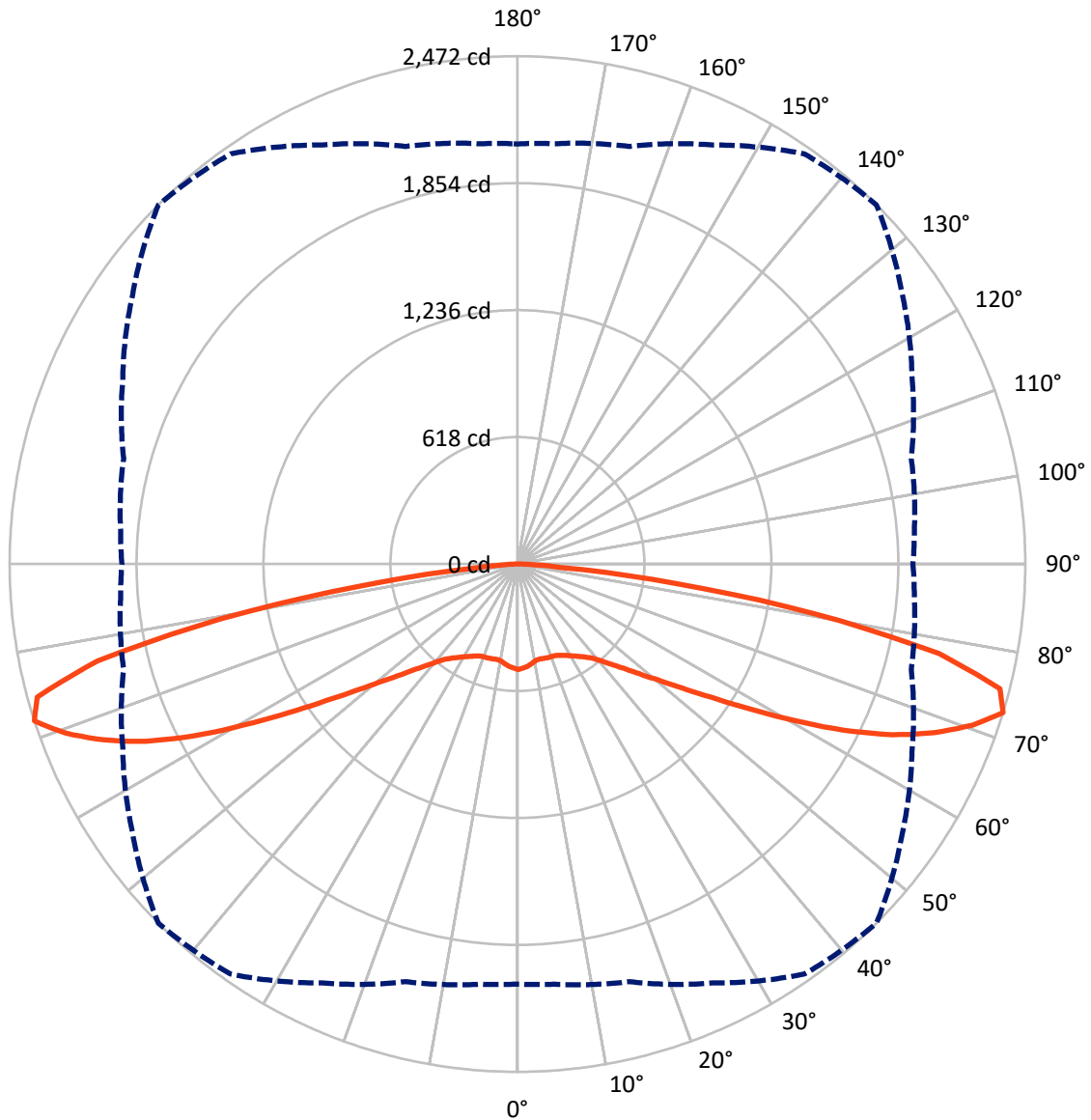


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - Non-Cutoff

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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	3115.9	0.0	3115.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3115.9	0.0	3115.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6231.8	0.0	6231.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	0.8
10°-20°	136.4	2.2
20°-30°	228.2	3.7
30°-40°	350.6	5.6
40°-50°	580.5	9.3
50°-60°	1032.1	16.6
60°-70°	1805.7	29.0
70°-80°	1837.1	29.5
80°-90°	213.9	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°	6231.8	100.0
0°-180°	6231.8	100.0



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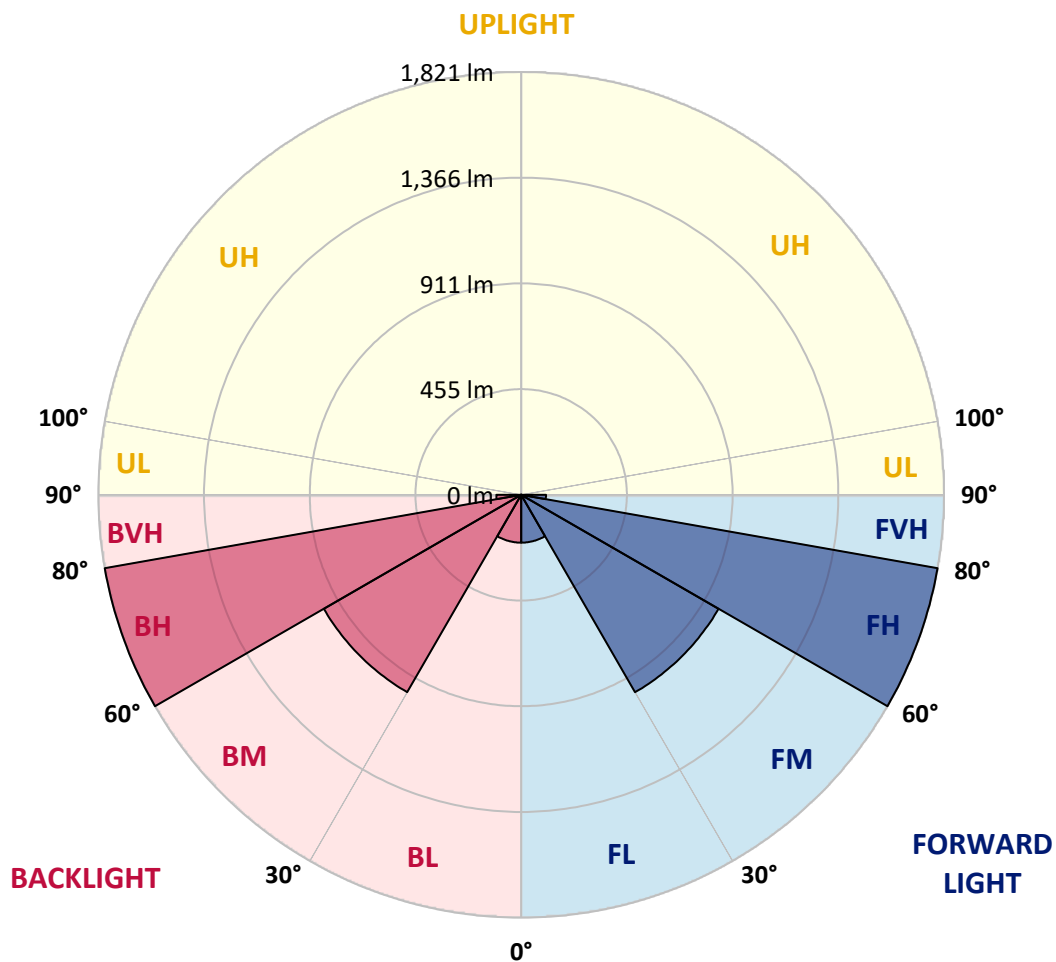
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	205.9	3.3			
FM	(30°-60°)	981.6	15.8			
FH	(60°-80°)	1821.4	29.2			G2/5000
FVH	(80°-90°)	107.0	1.7			G2/225
BL	(0°-30°)	205.9	3.3	B1/500		
BM	(30°-60°)	981.6	15.8	B1/1000		
BH	(60°-80°)	1821.4	29.2	B3/2500		G2/5000
BVH	(80°-90°)	107.0	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°	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6
2.5°	508.9	510.0	507.7	507.7	507.7	506.6	507.7	506.6	507.7	508.9	508.9
5°	504.1	504.1	501.8	501.8	501.8	500.6	501.8	501.8	503.0	504.1	504.1
7.5°	493.5	493.5	492.2	491.1	489.9	489.9	491.1	491.1	492.2	493.5	493.5
10°	487.5	486.4	484.0	480.5	479.3	478.0	480.5	482.8	486.4	489.9	488.8
12.5°	485.2	484.0	479.3	475.7	473.3	474.5	476.9	479.3	485.2	488.8	487.5
15°	487.5	485.2	479.3	473.3	474.5	476.9	479.3	479.3	486.4	489.9	489.9
17.5°	487.5	486.4	479.3	474.5	475.7	479.3	480.5	479.3	485.2	491.1	491.1
20°	488.8	488.8	479.3	475.7	476.9	480.5	481.6	480.5	485.2	492.2	492.2
22.5°	491.1	489.9	480.5	478.0	480.5	482.8	484.0	482.8	487.5	493.5	494.7
25°	495.8	493.5	485.2	484.0	488.8	492.2	492.2	489.9	492.2	498.2	498.2
27.5°	501.8	500.6	491.1	491.1	497.1	504.1	500.6	495.8	498.2	504.1	504.1
30°	512.5	511.3	501.8	501.8	510.0	518.4	510.0	504.1	507.7	513.6	514.9
32.5°	527.8	527.8	519.6	517.2	531.4	535.0	531.4	519.6	521.9	530.3	530.3
35°	553.9	551.6	543.3	542.2	556.4	555.2	553.9	543.3	545.6	555.2	555.2
37.5°	588.4	587.2	580.1	576.5	583.6	578.9	581.2	576.5	582.5	589.5	590.8
40°	632.3	631.1	625.1	620.4	622.8	615.7	618.1	620.4	626.4	631.1	632.3
42.5°	686.8	686.8	680.9	672.6	669.0	665.5	665.5	670.2	676.2	682.1	682.1
45°	754.4	754.4	747.4	739.1	728.3	722.4	724.8	729.6	736.6	743.8	746.1
47.5°	833.9	833.9	824.4	816.1	805.5	798.3	798.3	800.8	811.4	817.3	820.9
50°	922.9	919.3	909.8	901.5	895.6	886.1	887.3	886.1	895.6	903.9	906.3
52.5°	1015.4	1014.3	1004.7	1002.4	1006.0	1001.2	1001.2	989.3	992.9	997.7	996.5
55°	1130.5	1127.0	1118.6	1123.4	1137.6	1144.7	1142.3	1123.4	1112.7	1115.1	1113.9
57.5°	1256.3	1252.7	1250.4	1264.6	1296.6	1326.3	1320.3	1276.4	1256.3	1257.4	1258.6
60°	1384.4	1384.4	1391.5	1427.0	1495.9	1544.5	1526.8	1453.2	1417.6	1410.4	1408.1
62.5°	1516.0	1519.6	1535.0	1594.4	1699.9	1780.5	1735.4	1631.1	1577.7	1563.5	1558.8
65°	1669.0	1672.6	1695.1	1768.7	1908.7	2004.8	1927.6	1829.2	1754.5	1724.8	1720.1
67.5°	1890.9	1893.3	1911.1	1982.3	2113.9	2191.0	2111.6	2023.7	1943.1	1908.7	1906.3
70°	2090.2	2092.5	2108.0	2201.7	2322.7	2349.9	2262.2	2150.7	2066.5	2039.2	2034.4
72.5°	2045.1	2053.4	2104.4	2250.3	2436.6	2472.2	2287.1	2119.9	1984.6	1939.5	1925.3
75°	1715.3	1728.4	1809.0	2028.5	2325.1	2425.9	2140.0	1832.7	1631.1	1544.5	1521.9
77.5°	1001.2	1049.9	1188.7	1469.8	1893.3	2098.5	1762.7	1341.6	1002.4	860.0	812.6
80°	274.0	300.1	401.0	676.2	1187.4	1469.8	1124.5	615.7	332.2	249.1	231.3
82.5°	86.6	115.1	145.9	194.6	466.2	774.6	417.6	181.5	142.4	117.4	104.3
85°	46.2	49.8	81.8	94.9	139.9	217.1	129.3	94.9	85.4	62.9	59.3
87.5°	23.7	25.0	46.2	46.2	61.7	51.0	55.8	51.0	48.6	30.9	27.3
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)