

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: P265616

Luminaire Tested: **ARCH-L-AF72-140-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265616
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-L-AF72-140-D-U-5WQ-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16943.3 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

Input Watts (W): 143
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

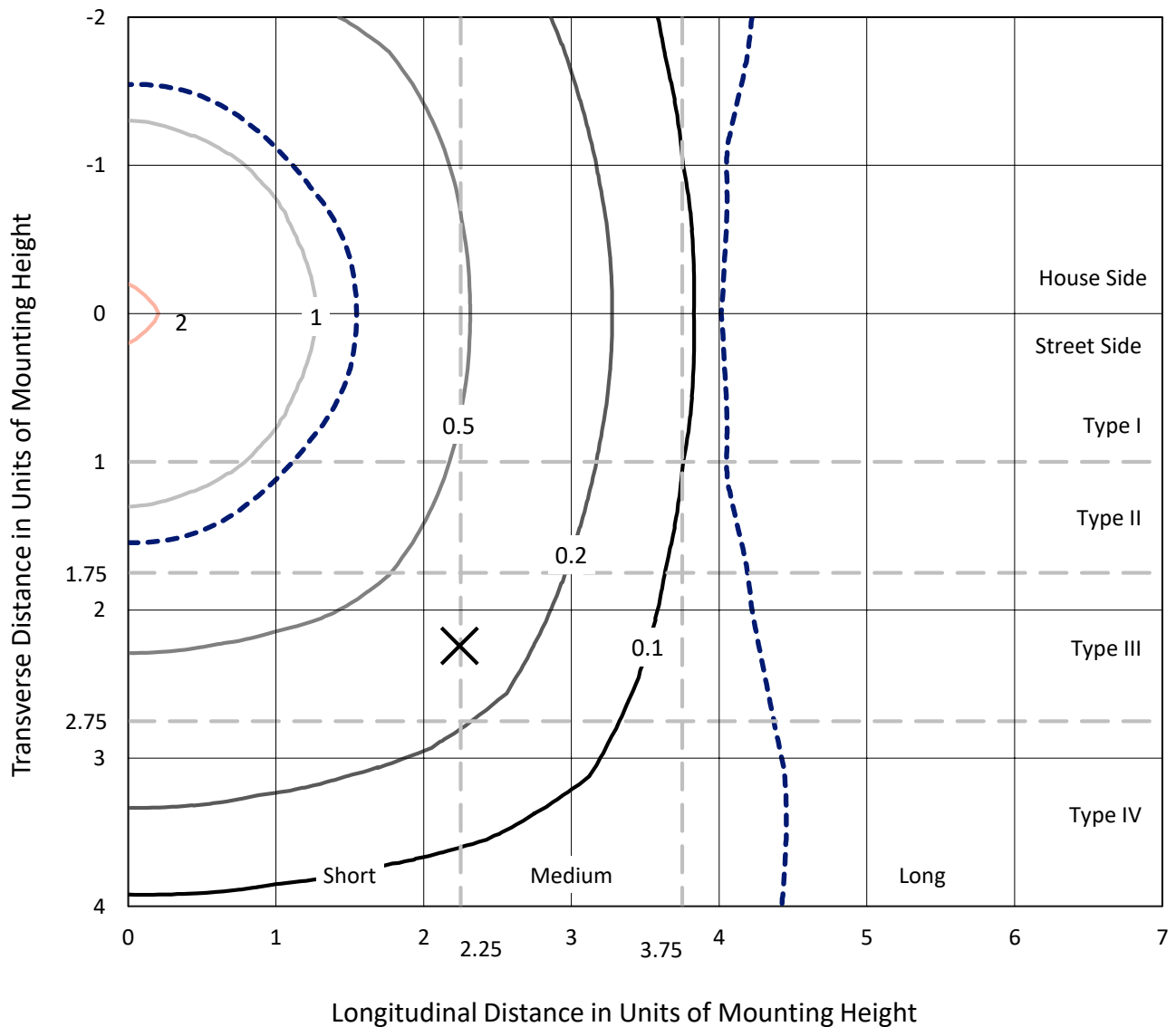


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

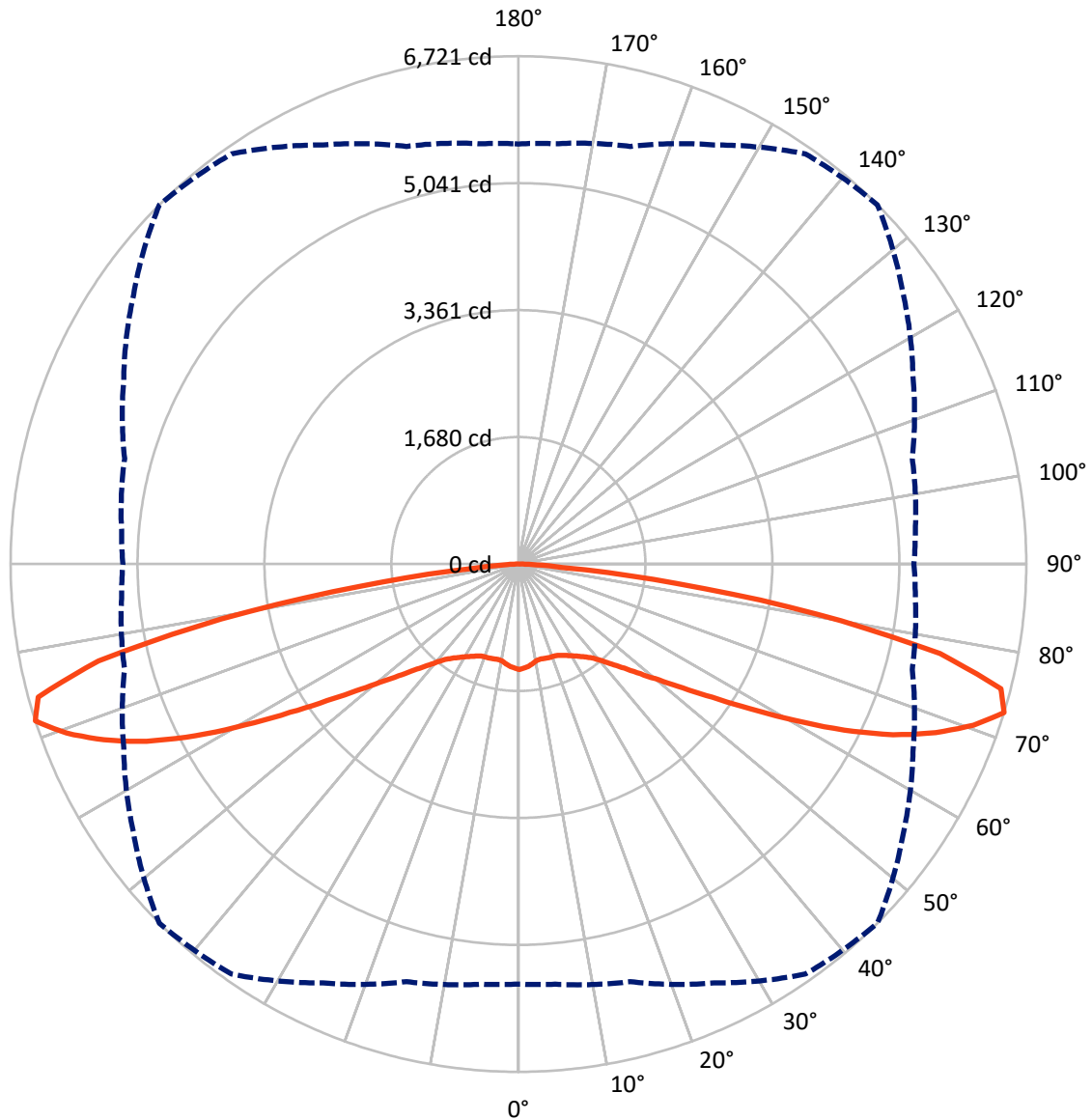


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Non-Cutoff

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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	8471.7	0.0	8471.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8471.7	0.0	8471.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	16943.3	0.0	16943.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	0.8
10°-20°	370.8	2.2
20°-30°	620.4	3.7
30°-40°	953.3	5.6
40°-50°	1578.4	9.3
50°-60°	2806.1	16.6
60°-70°	4909.3	29.0
70°-80°	4994.8	29.5
80°-90°	581.6	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°	16943.3	100.0
0°-180°	16943.3	100.0



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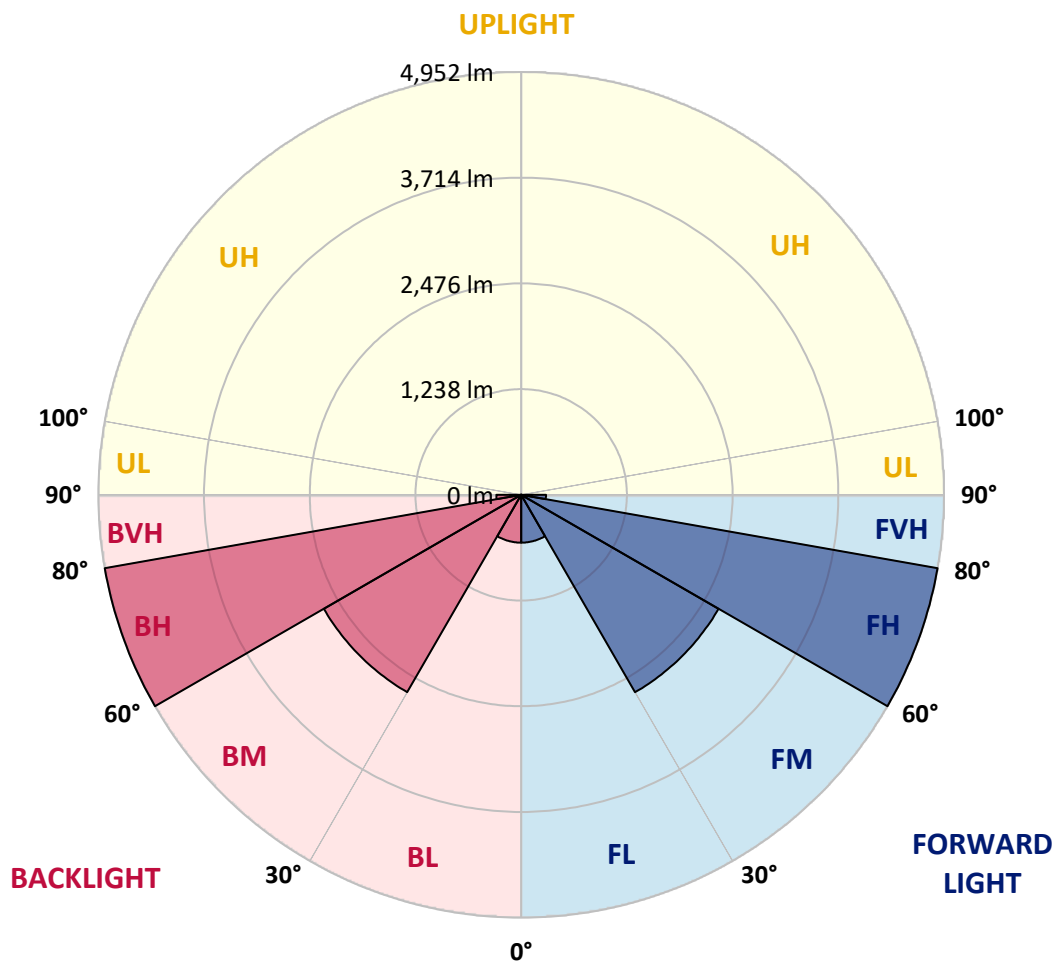
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	559.8	3.3			
FM	(30°-60°)	2668.9	15.8			
FH	(60°-80°)	4952.1	29.2			G2/5000
FVH	(80°-90°)	290.8	1.7			G3/500
BL	(0°-30°)	559.8	3.3	B2/1000		
BM	(30°-60°)	2668.9	15.8	B3/5000		
BH	(60°-80°)	4952.1	29.2	B4/5000		G2/5000
BVH	(80°-90°)	290.8	1.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1383.6	1386.9	1380.3	1380.3	1380.3	1377.2	1380.3	1377.2	1380.3	1383.6	1383.6
5°	1370.8	1370.8	1364.3	1364.3	1364.3	1361.0	1364.3	1364.3	1367.5	1370.8	1370.8
7.5°	1341.7	1341.7	1338.5	1335.2	1332.0	1332.0	1335.2	1335.2	1338.5	1341.7	1341.7
10°	1325.5	1322.3	1315.8	1306.2	1303.0	1299.8	1306.2	1312.7	1322.3	1332.0	1328.9
12.5°	1319.2	1315.8	1303.0	1293.3	1286.8	1290.1	1296.6	1303.0	1319.2	1328.9	1325.5
15°	1325.5	1319.2	1303.0	1286.8	1290.1	1296.6	1303.0	1303.0	1322.3	1332.0	1332.0
17.5°	1325.5	1322.3	1303.0	1290.1	1293.3	1303.0	1306.2	1303.0	1319.2	1335.2	1335.2
20°	1328.9	1328.9	1303.0	1293.3	1296.6	1306.2	1309.4	1306.2	1319.2	1338.5	1338.5
22.5°	1335.2	1332.0	1306.2	1299.8	1306.2	1312.7	1315.8	1312.7	1325.5	1341.7	1344.9
25°	1348.1	1341.7	1319.2	1315.8	1328.9	1338.5	1338.5	1332.0	1338.5	1354.6	1354.6
27.5°	1364.3	1361.0	1335.2	1335.2	1351.4	1370.8	1361.0	1348.1	1354.6	1370.8	1370.8
30°	1393.4	1390.0	1364.3	1364.3	1386.9	1409.4	1386.9	1370.8	1380.3	1396.5	1399.7
32.5°	1435.2	1435.2	1412.7	1406.1	1445.0	1454.5	1445.0	1412.7	1419.1	1441.7	1441.7
35°	1506.2	1499.7	1477.2	1473.8	1512.7	1509.4	1506.2	1477.2	1483.6	1509.4	1509.4
37.5°	1599.7	1596.5	1577.2	1567.5	1586.9	1573.9	1580.4	1567.5	1583.6	1602.9	1606.2
40°	1719.0	1715.9	1699.8	1686.7	1693.2	1673.9	1680.3	1686.7	1702.8	1715.9	1719.0
42.5°	1867.3	1867.3	1851.2	1828.7	1819.0	1809.4	1809.4	1822.2	1838.4	1854.6	1854.6
45°	2051.2	2051.2	2031.8	2009.2	1980.4	1964.1	1970.6	1983.5	2003.0	2022.3	2028.6
47.5°	2267.3	2267.3	2241.5	2219.0	2189.9	2170.6	2170.6	2177.0	2206.1	2222.1	2231.8
50°	2509.2	2499.5	2473.8	2451.1	2435.0	2409.3	2412.5	2409.3	2435.0	2457.7	2464.1
52.5°	2760.9	2757.5	2731.7	2725.3	2735.0	2722.1	2722.1	2689.9	2699.4	2712.4	2709.2
55°	3073.6	3063.9	3041.4	3054.2	3093.0	3112.4	3105.9	3054.2	3025.2	3031.7	3028.5
57.5°	3415.5	3405.8	3399.4	3438.2	3525.2	3605.7	3589.6	3470.3	3415.5	3418.7	3422.0
60°	3763.9	3763.9	3783.2	3880.0	4066.9	4199.2	4150.9	3950.8	3854.2	3834.8	3828.3
62.5°	4121.9	4131.6	4173.4	4334.7	4621.8	4841.1	4718.4	4434.8	4289.5	4250.9	4237.9
65°	4537.9	4547.6	4608.8	4808.7	5189.4	5450.6	5241.0	4973.2	4770.1	4689.5	4676.5
67.5°	5141.0	5147.5	5195.8	5389.3	5747.4	5957.0	5740.9	5502.3	5282.9	5189.4	5183.0
70°	5682.9	5689.2	5731.2	5986.0	6314.9	6389.1	6150.5	5847.3	5618.3	5544.2	5531.3
72.5°	5560.2	5582.8	5721.6	6118.3	6624.6	6721.4	6218.2	5763.4	5395.8	5273.2	5234.6
75°	4663.7	4699.2	4918.5	5515.1	6321.5	6595.5	5818.3	4983.0	4434.8	4199.2	4138.0
77.5°	2722.1	2854.4	3231.7	3996.1	5147.5	5705.4	4792.6	3647.7	2725.3	2338.3	2209.3
80°	745.1	816.0	1090.2	1838.4	3228.5	3996.1	3057.6	1673.9	903.1	677.3	629.0
82.5°	235.4	312.8	396.7	528.9	1267.5	2106.0	1135.3	493.4	387.0	319.3	283.9
85°	125.9	135.5	222.5	258.1	380.6	590.2	351.5	258.1	232.2	170.9	161.2
87.5°	64.5	67.7	125.9	125.9	167.8	138.7	151.5	138.7	132.2	83.8	74.2
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)