

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: P265607

Luminaire Tested: **ARCH-L-AF72-130-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265607
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-AF72-130-D-U-5WQ-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15925.5 lumens
Efficiency: N/A
Efficacy: 119.7 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): 133
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

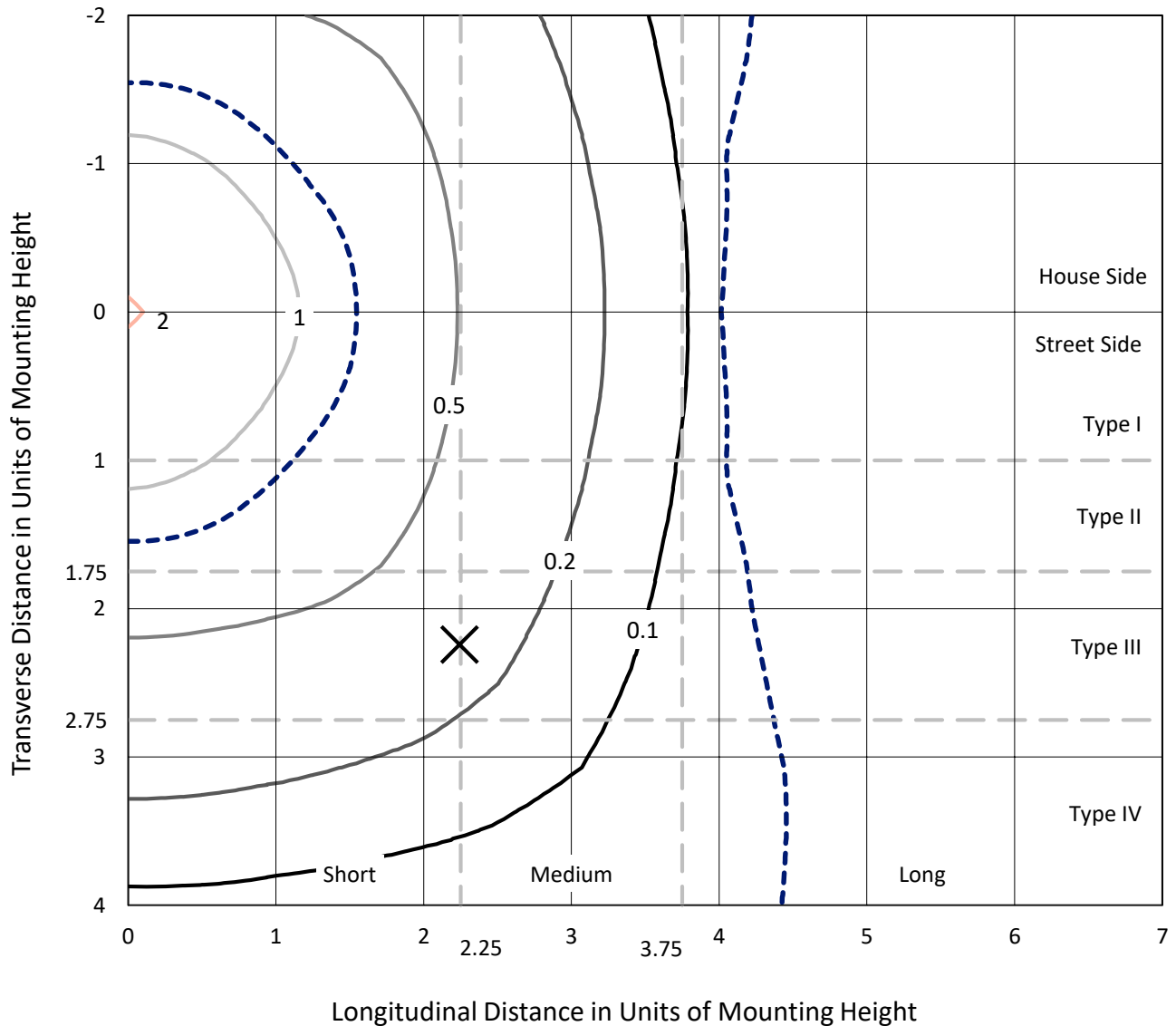


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

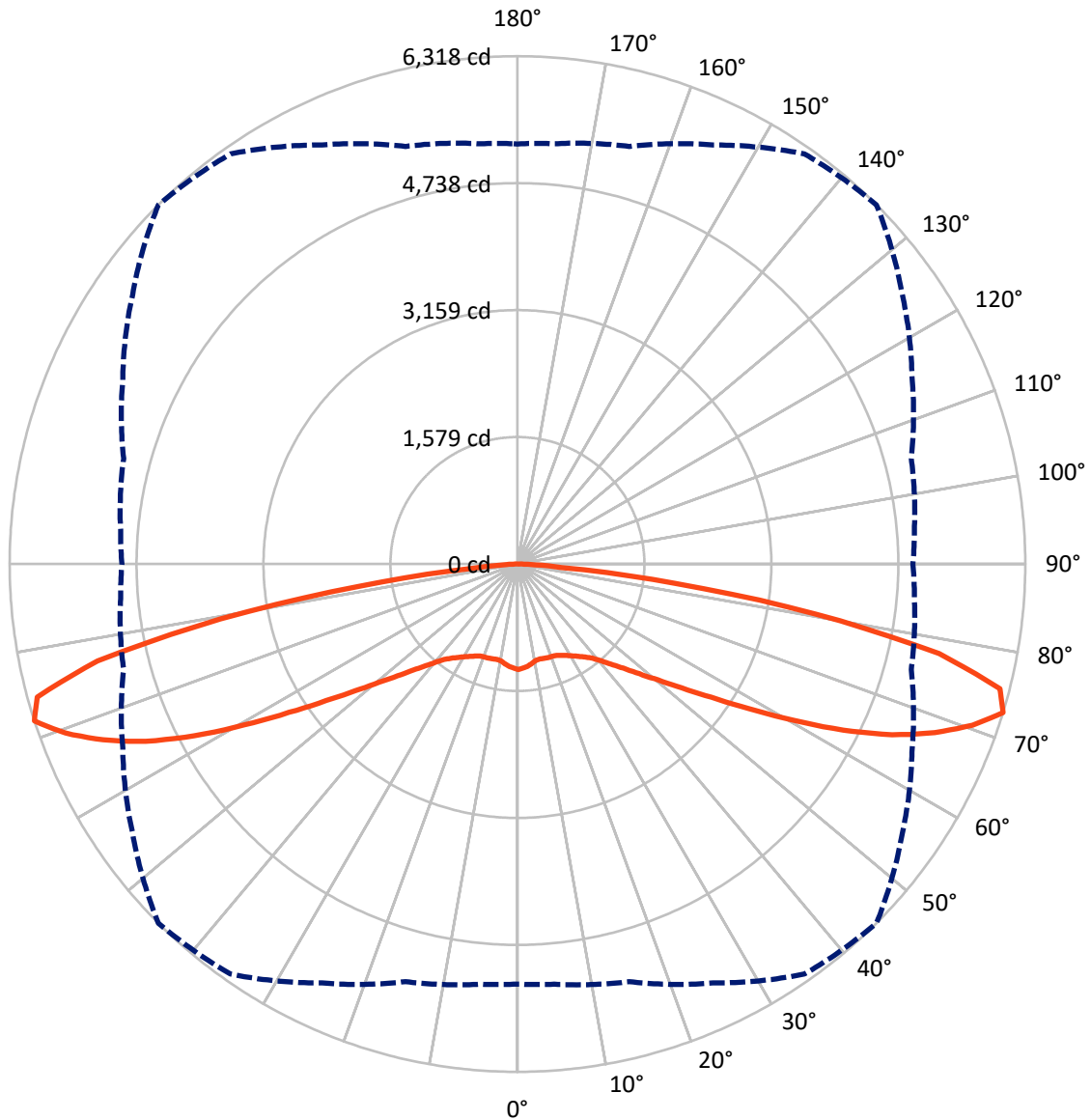


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Non-Cutoff

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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	7962.7	0.0	7962.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7962.7	0.0	7962.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	15925.5	0.0	15925.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	0.8
10°-20°	348.5	2.2
20°-30°	583.2	3.7
30°-40°	896.0	5.6
40°-50°	1483.6	9.3
50°-60°	2637.6	16.6
60°-70°	4614.4	29.0
70°-80°	4694.8	29.5
80°-90°	546.7	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°	15925.5	100.0
0°-180°	15925.5	100.0



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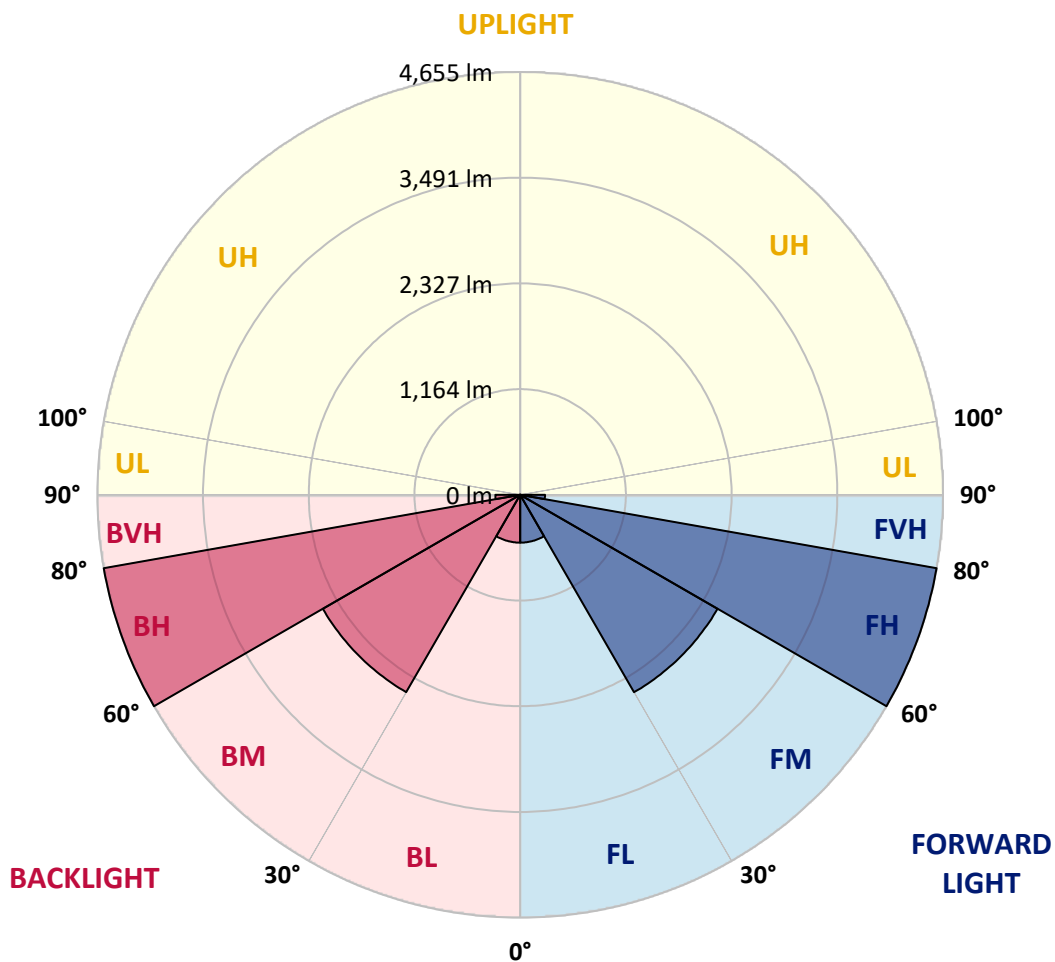
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	526.2	3.3			
FM	(30°-60°)	2508.6	15.8			
FH	(60°-80°)	4654.6	29.2			G2/5000
FVH	(80°-90°)	273.3	1.7			G3/500
BL	(0°-30°)	526.2	3.3	B2/1000		
BM	(30°-60°)	2508.6	15.8	B3/5000		
BH	(60°-80°)	4654.6	29.2	B4/5000		G2/5000
BVH	(80°-90°)	273.3	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°	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7
2.5°	1300.4	1303.5	1297.5	1297.5	1297.5	1294.5	1297.5	1294.5	1297.5	1300.4	1300.4
5°	1288.3	1288.3	1282.3	1282.3	1282.3	1279.2	1282.3	1282.3	1285.4	1288.3	1288.3
7.5°	1261.1	1261.1	1258.0	1255.0	1252.0	1252.0	1255.0	1255.0	1258.0	1261.1	1261.1
10°	1245.9	1243.0	1236.8	1227.8	1224.7	1221.7	1227.8	1233.8	1243.0	1252.0	1249.0
12.5°	1239.9	1236.8	1224.7	1215.6	1209.6	1212.6	1218.7	1224.7	1239.9	1249.0	1245.9
15°	1245.9	1239.9	1224.7	1209.6	1212.6	1218.7	1224.7	1224.7	1243.0	1252.0	1252.0
17.5°	1245.9	1243.0	1224.7	1212.6	1215.6	1224.7	1227.8	1224.7	1239.9	1255.0	1255.0
20°	1249.0	1249.0	1224.7	1215.6	1218.7	1227.8	1230.8	1227.8	1239.9	1258.0	1258.0
22.5°	1255.0	1252.0	1227.8	1221.7	1227.8	1233.8	1236.8	1233.8	1245.9	1261.1	1264.2
25°	1267.1	1261.1	1239.9	1236.8	1249.0	1258.0	1258.0	1252.0	1258.0	1273.2	1273.2
27.5°	1282.3	1279.2	1255.0	1255.0	1270.3	1288.3	1279.2	1267.1	1273.2	1288.3	1288.3
30°	1309.5	1306.6	1282.3	1282.3	1303.5	1324.8	1303.5	1288.3	1297.5	1312.7	1315.7
32.5°	1349.1	1349.1	1327.8	1321.8	1358.1	1367.2	1358.1	1327.8	1333.9	1355.1	1355.1
35°	1415.6	1409.6	1388.4	1385.4	1421.7	1418.8	1415.6	1388.4	1394.4	1418.8	1418.8
37.5°	1503.7	1500.6	1482.5	1473.3	1491.5	1479.4	1485.4	1473.3	1488.4	1506.6	1509.7
40°	1615.8	1612.7	1597.5	1585.5	1591.5	1573.3	1579.4	1585.5	1600.6	1612.7	1615.8
42.5°	1755.2	1755.2	1740.0	1718.8	1709.7	1700.8	1700.8	1712.8	1727.9	1743.2	1743.2
45°	1928.0	1928.0	1909.8	1888.5	1861.4	1846.1	1852.2	1864.3	1882.6	1900.8	1906.8
47.5°	2131.0	2131.0	2106.9	2085.7	2058.3	2040.2	2040.2	2046.2	2073.6	2088.6	2097.8
50°	2358.5	2349.3	2325.2	2304.0	2288.8	2264.4	2267.5	2264.4	2288.8	2310.0	2316.1
52.5°	2594.9	2591.9	2567.6	2561.5	2570.7	2558.6	2558.6	2528.3	2537.4	2549.5	2546.4
55°	2888.9	2879.8	2858.6	2870.9	2907.2	2925.4	2919.3	2870.9	2843.6	2849.7	2846.5
57.5°	3210.4	3201.2	3195.2	3231.6	3313.4	3389.1	3374.0	3261.8	3210.4	3213.3	3216.4
60°	3537.7	3537.7	3555.9	3646.8	3822.6	3947.1	3901.5	3713.6	3622.7	3604.4	3598.4
62.5°	3874.2	3883.4	3922.8	4074.4	4344.2	4550.3	4435.0	4168.2	4031.9	3995.5	3983.4
65°	4265.3	4274.3	4331.9	4519.9	4877.6	5123.3	4926.1	4674.5	4483.6	4407.8	4395.6
67.5°	4832.3	4838.2	4883.7	5065.6	5402.0	5599.1	5396.1	5171.7	4965.7	4877.6	4871.6
70°	5341.5	5347.5	5387.0	5626.4	5935.6	6005.3	5781.0	5496.1	5280.9	5211.1	5199.0
72.5°	5226.2	5247.4	5377.9	5750.7	6226.7	6317.6	5844.7	5417.3	5071.7	4956.5	4920.0
75°	4383.5	4416.8	4622.9	5183.8	5941.7	6199.5	5468.8	4683.7	4168.2	3947.1	3889.4
77.5°	2558.6	2682.9	3037.6	3756.1	4838.2	5362.7	4504.8	3428.7	2561.5	2197.9	2076.5
80°	700.3	767.0	1024.6	1727.9	3034.6	3756.1	2873.9	1573.3	848.8	636.5	591.2
82.5°	221.3	294.0	372.8	497.1	1191.4	1979.5	1067.0	463.9	363.8	300.2	266.7
85°	118.2	127.3	209.1	242.5	357.7	554.8	330.4	242.5	218.3	160.6	151.5
87.5°	60.6	63.7	118.2	118.2	157.7	130.3	142.6	130.3	124.2	78.8	69.7
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)