

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: P400505

Luminaire Tested: **ARCH-L-PA3-90-740-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-740-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16019 lumens
Efficiency: N/A
Efficacy: 172.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G3

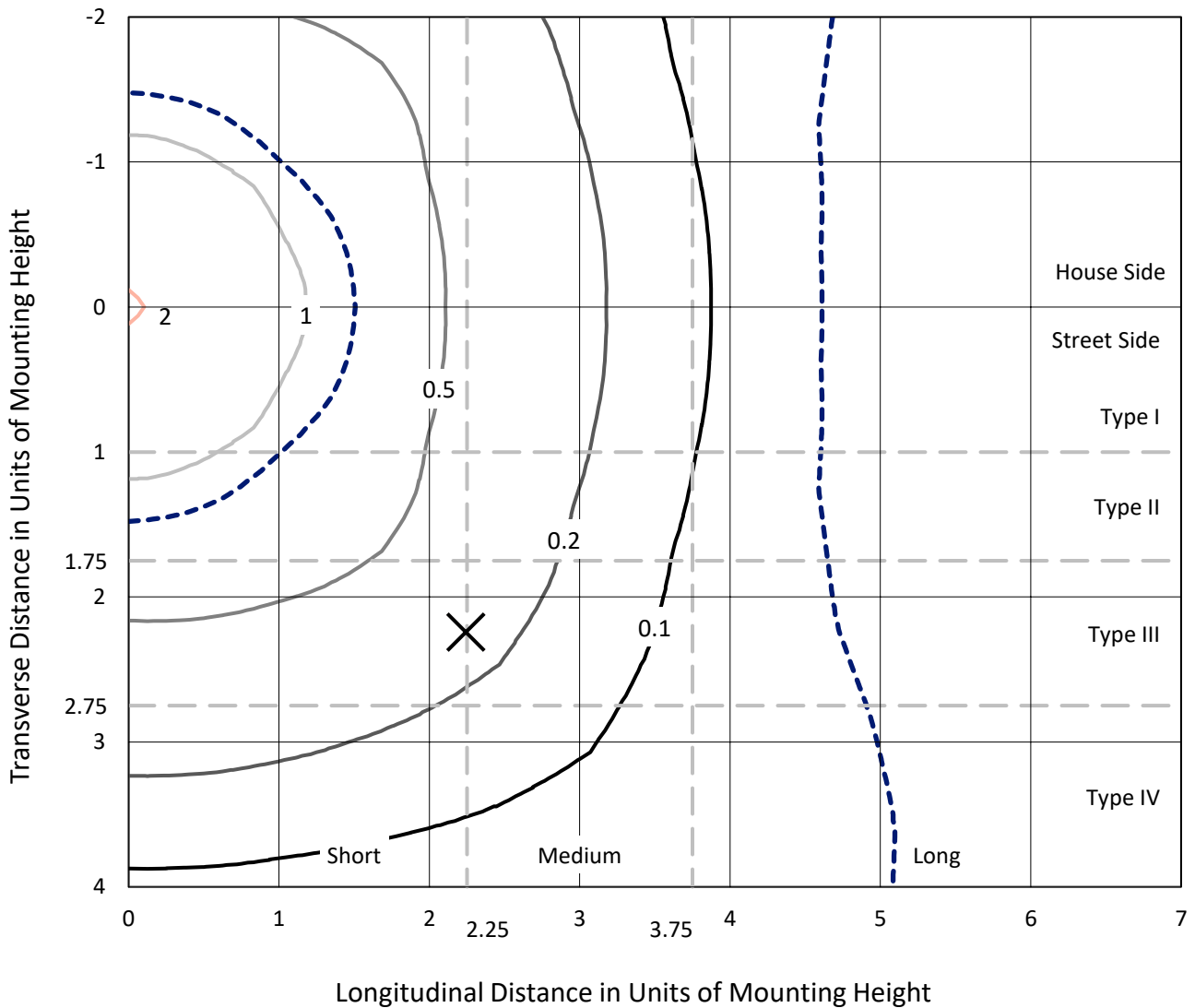
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400505
 CATALOG NUMBER: ARCH-L-PA3-90-740-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

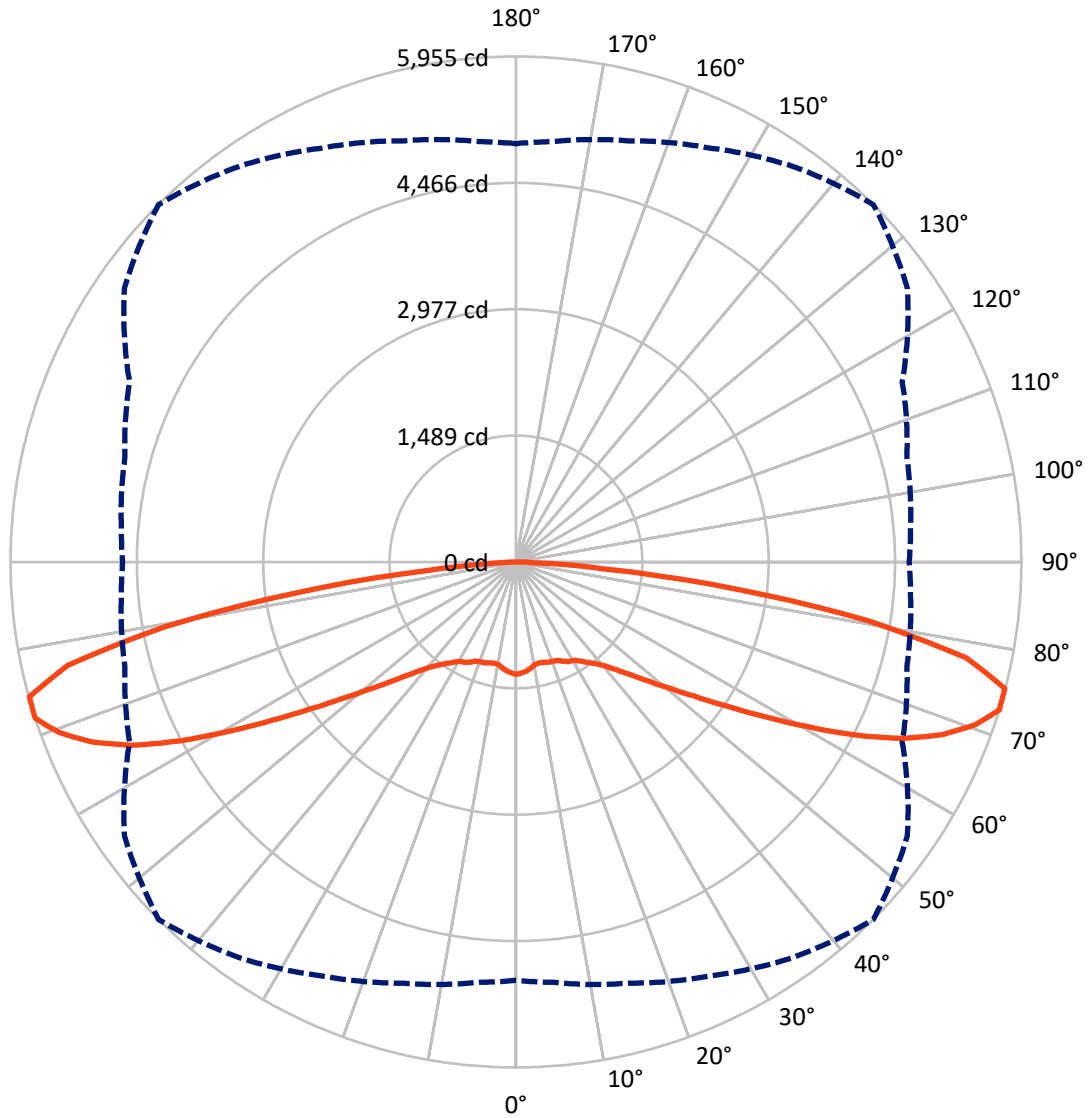
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - N/A

REPORT NUMBER: P400505
CATALOG NUMBER: ARCH-L-PA3-90-740-U-5WQ

Luminous Intensity Polar Plot



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



REPORT NUMBER: P400505
 CATALOG NUMBER: ARCH-L-PA3-90-740-U-5WQ

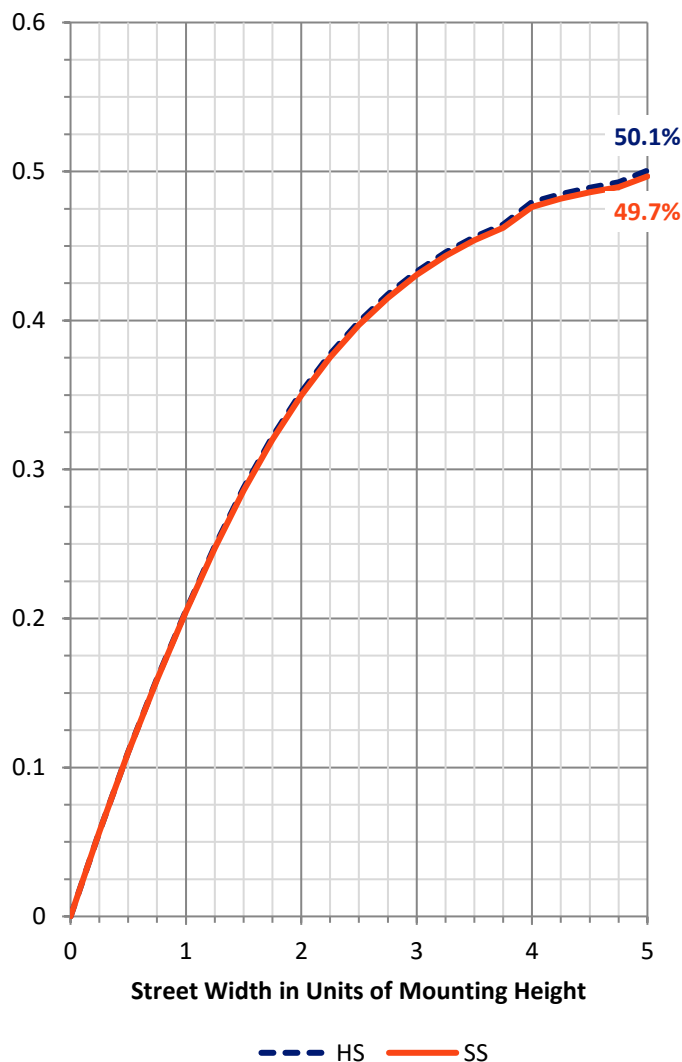
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8009.5	0.0	8009.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8009.5	0.0	8009.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16019.0	0.0	16019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	0.8
10°-20°	352.8	2.2
20°-30°	599.5	3.7
30°-40°	914.4	5.7
40°-50°	1505.7	9.4
50°-60°	2629.4	16.4
60°-70°	4408.3	27.5
70°-80°	4717.8	29.5
80°-90°	769.5	4.8
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°	16019.0	100.0
0°-180°	16019.0	100.0

Coefficient of Utilization

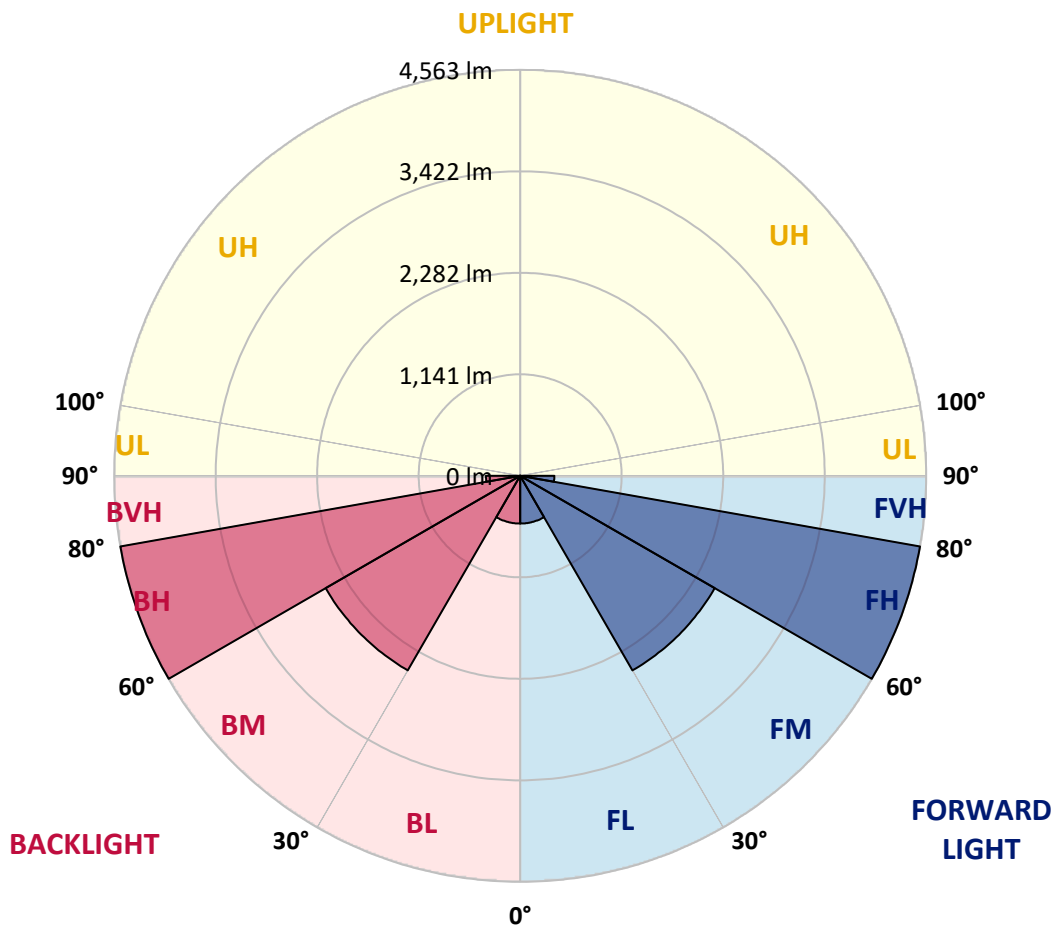


REPORT NUMBER: P400505
 CATALOG NUMBER: ARCH-L-PA3-90-740-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	537.0	3.4			
FM (30°-60°)	2524.8	15.8			
FH (60°-80°)	4563.0	28.5			G2/5000
FVH (80°-90°)	384.7	2.4			G3/500
BL (0°-30°)	537.0	3.4	B2/1000		
BM (30°-60°)	2524.8	15.8	B3/5000		
BH (60°-80°)	4563.0	28.5	B4/5000		G2/5000
BVH (80°-90°)	384.7	2.4			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





REPORT NUMBER: P400505

CATALOG NUMBER: ARCH-L-PA3-90-740-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6
2.5°	1317.4	1317.4	1317.4	1315.4	1311.3	1309.2	1305.1	1307.2	1307.2	1307.2	1307.2
5°	1301.0	1301.0	1299.0	1297.0	1292.9	1290.8	1286.7	1290.8	1290.8	1290.8	1290.8
7.5°	1270.4	1272.4	1272.4	1270.4	1264.2	1262.2	1256.0	1258.1	1258.1	1260.1	1258.1
10°	1254.0	1254.0	1251.9	1241.7	1231.5	1227.4	1225.4	1231.5	1237.6	1243.8	1243.8
12.5°	1254.0	1254.0	1249.9	1233.5	1219.2	1219.2	1219.2	1227.4	1239.7	1251.9	1254.0
15°	1260.1	1260.1	1251.9	1233.5	1225.4	1227.4	1227.4	1235.6	1249.9	1266.3	1268.3
17.5°	1264.2	1264.2	1254.0	1235.6	1235.6	1241.7	1237.6	1243.8	1258.1	1276.5	1278.5
20°	1270.4	1270.4	1256.0	1241.7	1241.7	1247.9	1247.9	1254.0	1266.3	1284.7	1286.7
22.5°	1282.6	1280.6	1266.3	1254.0	1254.0	1258.1	1262.2	1270.4	1280.6	1297.0	1301.0
25°	1297.0	1297.0	1284.7	1282.6	1286.7	1297.0	1294.9	1292.9	1297.0	1311.3	1317.4
27.5°	1305.1	1305.1	1297.0	1303.1	1319.5	1327.6	1317.4	1309.2	1309.2	1323.5	1325.6
30°	1331.7	1329.7	1321.5	1325.6	1339.9	1344.0	1337.9	1327.6	1333.8	1350.1	1352.2
32.5°	1376.7	1376.7	1364.5	1364.5	1374.7	1391.1	1370.6	1364.5	1372.6	1391.1	1393.1
35°	1446.3	1446.3	1429.9	1421.7	1429.9	1452.4	1421.7	1419.7	1434.0	1454.5	1456.5
37.5°	1534.2	1534.2	1524.0	1503.6	1505.6	1519.9	1493.3	1491.3	1517.9	1540.4	1540.4
40°	1644.7	1650.9	1640.6	1616.1	1607.9	1609.9	1589.5	1591.5	1622.2	1648.8	1648.8
42.5°	1781.8	1785.9	1769.5	1751.1	1740.9	1734.7	1714.3	1718.4	1755.2	1790.0	1790.0
45°	1947.5	1949.5	1933.2	1910.6	1898.4	1894.3	1873.8	1884.1	1925.0	1961.8	1959.7
47.5°	2133.6	2135.7	2119.3	2096.8	2088.6	2094.8	2074.3	2074.3	2111.1	2141.8	2137.7
50°	2344.3	2348.4	2330.0	2319.8	2313.6	2330.0	2305.5	2283.0	2307.5	2338.2	2334.1
52.5°	2577.5	2587.8	2575.5	2579.6	2602.1	2622.5	2581.6	2532.5	2544.8	2565.3	2559.1
55°	2859.8	2872.1	2876.2	2890.5	2949.8	2984.6	2917.1	2835.3	2829.2	2831.2	2821.0
57.5°	3176.9	3185.1	3211.7	3244.4	3367.2	3422.4	3316.0	3174.9	3129.9	3103.3	3097.1
60°	3496.0	3510.4	3575.8	3643.3	3831.5	3931.8	3768.1	3530.8	3434.7	3385.6	3375.3
62.5°	3817.2	3845.8	3952.2	4066.8	4340.9	4490.2	4238.6	3894.9	3755.8	3694.5	3678.1
65°	4189.5	4224.3	4353.2	4498.4	4803.2	5013.9	4709.1	4271.3	4122.0	4040.2	4019.7
67.5°	4625.2	4662.1	4766.4	4928.0	5216.4	5423.1	5153.0	4655.9	4461.6	4357.3	4340.9
70°	4983.2	5016.0	5128.5	5292.1	5506.9	5742.2	5484.4	4962.8	4786.9	4713.2	4703.0
72.5°	4928.0	4971.0	5136.7	5382.1	5689.0	5954.9	5629.7	5022.1	4768.4	4666.2	4633.4
75°	4304.1	4351.1	4547.5	4991.4	5551.9	5948.8	5419.0	4627.3	4328.6	4242.7	4226.3
77.5°	2849.6	2894.6	3226.0	3925.6	4848.2	5421.0	4782.8	3876.5	3395.8	3189.2	3176.9
80°	1151.7	1209.0	1526.1	2268.6	3436.7	4214.1	3547.2	2481.4	1673.4	1350.1	1284.7
82.5°	268.0	319.1	464.4	836.7	1759.3	2624.6	1912.7	926.7	538.0	382.5	343.7
85°	112.5	114.6	198.4	272.1	550.3	1059.7	626.0	337.5	274.1	200.5	196.4
87.5°	43.0	45.0	96.1	114.6	175.9	200.5	212.7	173.9	161.6	100.2	96.1
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)