

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: P348705

Luminaire Tested: **ARCH-N-PA1-40-730-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-40-730-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5173 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

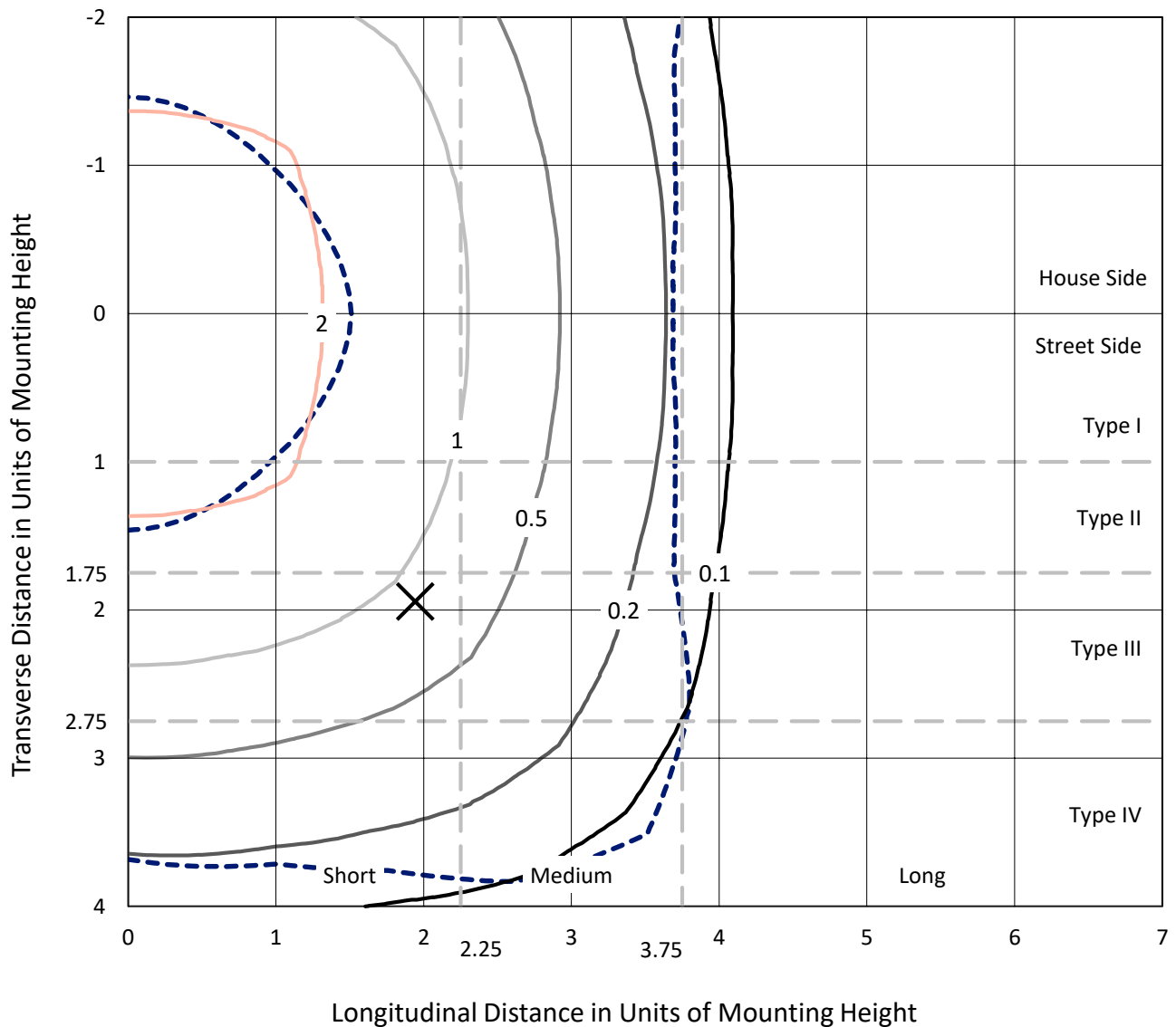
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348705
 CATALOG NUMBER: ARCH-N-PA1-40-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

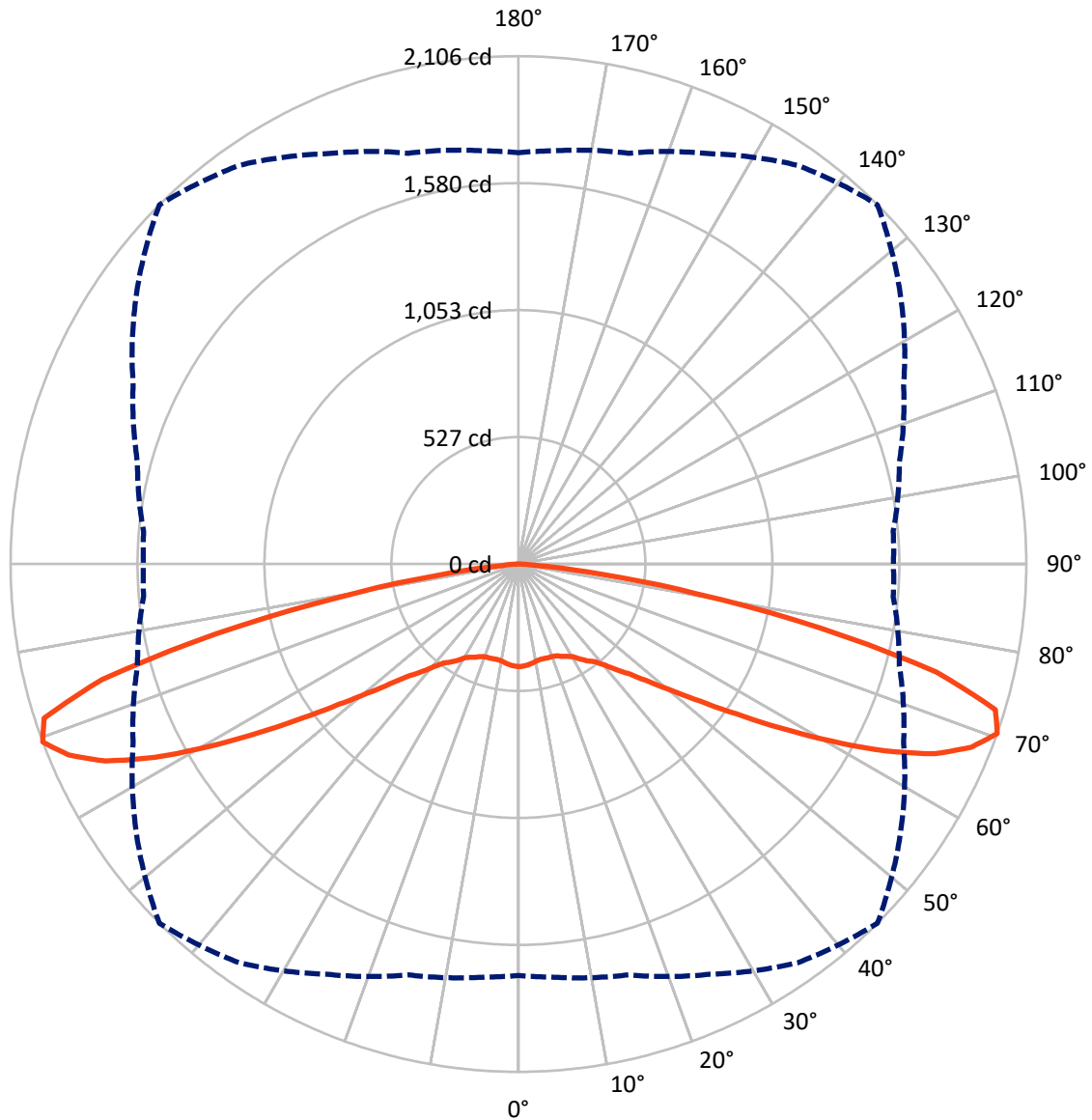
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P348705
CATALOG NUMBER: ARCH-N-PA1-40-730-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P348705

CATALOG NUMBER: ARCH-N-PA1-40-730-U-5WQ

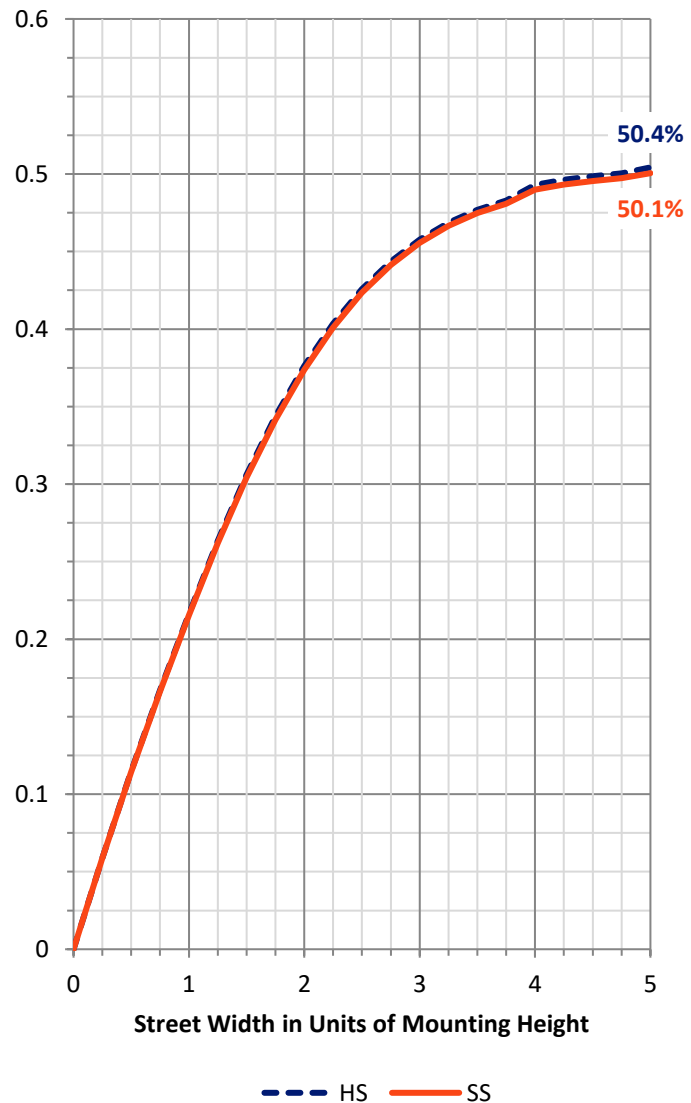
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2586.5	0.0	2586.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2586.5	0.0	2586.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5173.0	0.0	5173.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	0.8
10°-20°	116.1	2.2
20°-30°	197.9	3.8
30°-40°	309.2	6.0
40°-50°	524.0	10.1
50°-60°	955.6	18.5
60°-70°	1645.2	31.8
70°-80°	1289.6	24.9
80°-90°	95.6	1.8
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°	5173.0	100.0
0°-180°	5173.0	100.0



REPORT NUMBER: P348705

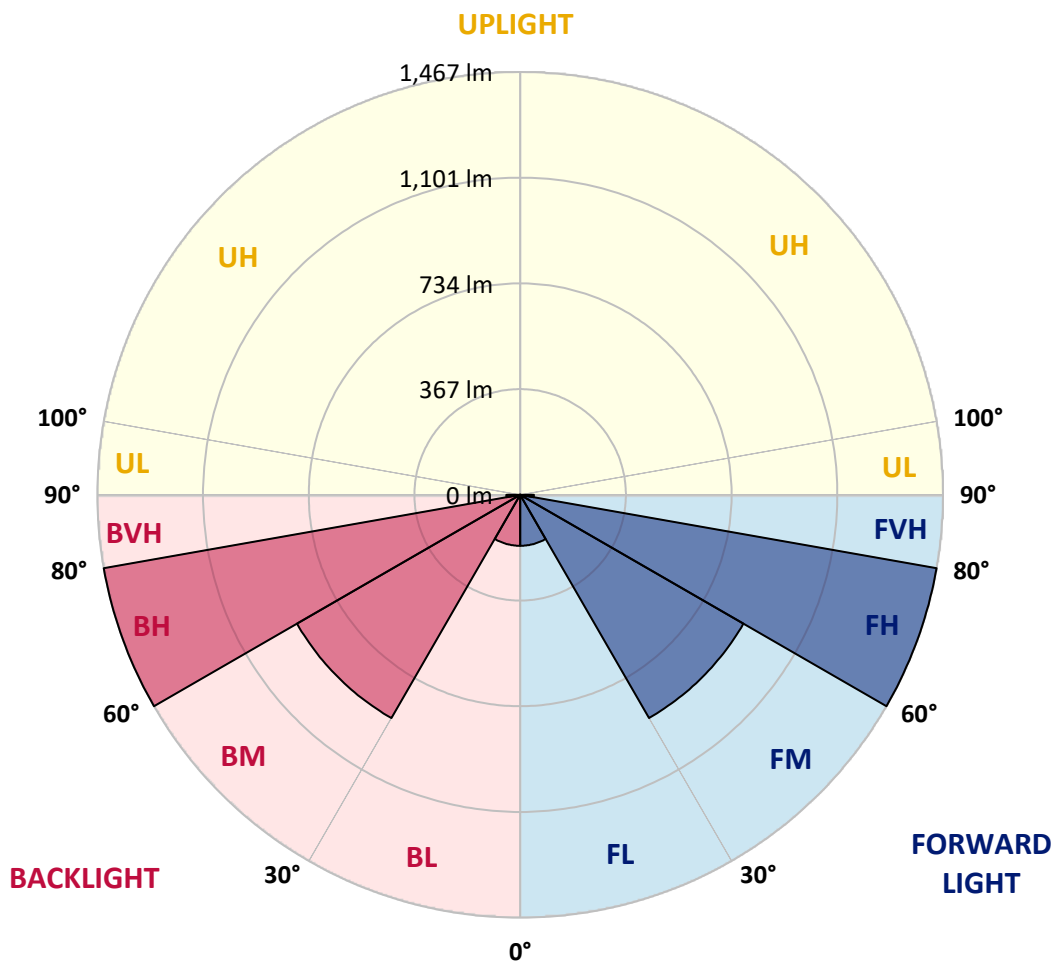
CATALOG NUMBER: ARCH-N-PA1-40-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	176.9	3.4			
FM	(30°-60°)	894.5	17.3			
FH	(60°-80°)	1467.4	28.4			G1/1800
FVH	(80°-90°)	47.8	0.9			G1/100
BL	(0°-30°)	176.9	3.4	B1/500		
BM	(30°-60°)	894.5	17.3	B1/1000		
BH	(60°-80°)	1467.4	28.4	B3/2500		G1/1800
BVH	(80°-90°)	47.8	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P348705

CATALOG NUMBER: ARCH-N-PA1-40-730-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	425.7	425.7	425.7	425.7	425.7	425.7	425.7	425.7	425.7	425.7	425.7
2.5°	423.9	424.4	423.9	424.2	423.3	423.7	423.7	423.7	423.5	423.7	423.3
5°	420.1	420.4	419.7	420.1	419.6	420.1	420.3	420.1	419.7	419.9	419.2
7.5°	414.4	414.8	414.3	414.8	414.1	415.0	414.8	414.3	413.8	413.8	413.1
10°	411.4	411.5	410.2	409.7	408.1	408.5	409.0	409.5	410.0	411.0	410.9
12.5°	411.5	411.5	409.5	407.3	405.0	405.5	406.4	408.3	410.3	412.2	412.4
15°	413.2	413.1	410.0	406.4	404.9	406.4	406.9	408.1	411.4	414.6	414.8
17.5°	414.4	414.4	409.7	405.5	405.4	407.8	407.6	408.1	411.7	416.5	416.7
20°	416.7	416.7	410.5	406.1	406.1	408.6	408.8	409.7	413.2	418.6	419.4
22.5°	421.6	421.8	415.3	411.7	412.0	413.6	414.1	415.5	418.7	424.5	425.6
25°	428.6	429.0	422.3	420.3	421.5	424.4	424.0	425.1	428.6	434.3	435.3
27.5°	438.4	437.5	431.4	430.5	431.7	433.8	433.6	433.8	436.7	441.8	443.0
30°	451.1	450.7	446.3	446.8	446.3	445.6	445.8	447.1	448.7	452.8	454.0
32.5°	463.4	463.7	461.0	463.6	467.3	469.9	466.0	462.2	460.5	462.7	463.7
35°	485.6	486.5	482.2	480.5	485.6	493.2	482.0	475.9	479.3	482.2	483.1
37.5°	523.4	524.0	516.8	509.9	506.2	513.4	502.2	502.7	514.7	520.2	520.0
40°	566.6	566.7	561.9	556.0	549.5	551.2	546.7	548.1	556.0	560.9	562.3
42.5°	617.9	617.4	609.9	601.3	599.4	601.1	593.6	592.6	601.6	610.5	610.7
45°	684.5	683.3	673.5	664.1	655.0	651.3	649.4	654.4	666.8	675.1	675.2
47.5°	756.2	752.9	747.8	740.3	732.4	728.6	725.5	727.9	737.0	740.3	740.6
50°	829.9	830.6	831.6	828.7	825.8	824.6	816.6	811.9	814.7	808.7	807.8
52.5°	917.4	918.7	928.7	937.0	942.0	944.6	929.3	913.4	904.5	892.9	889.5
55°	1020.5	1022.8	1037.3	1060.6	1084.5	1097.2	1069.7	1039.9	1012.3	990.6	983.6
57.5°	1135.5	1139.5	1159.5	1204.1	1253.3	1283.2	1236.7	1182.6	1129.4	1098.1	1092.6
60°	1270.4	1274.1	1301.9	1365.9	1445.4	1490.4	1419.9	1331.5	1265.2	1235.3	1225.2
62.5°	1430.9	1431.2	1465.3	1540.1	1645.1	1707.7	1612.3	1494.0	1425.7	1389.6	1379.9
65°	1603.5	1604.4	1639.6	1720.4	1829.1	1897.2	1789.4	1666.2	1582.7	1529.4	1521.9
67.5°	1725.5	1729.1	1766.3	1863.5	1965.1	2026.5	1915.0	1775.7	1679.2	1615.7	1609.4
70°	1706.0	1720.1	1763.7	1877.2	2018.5	2106.1	1935.3	1762.7	1635.4	1560.4	1555.1
72.5°	1487.9	1514.7	1572.9	1721.8	1947.8	2068.5	1824.3	1578.7	1434.6	1370.8	1361.2
75°	1013.2	1056.8	1144.6	1359.4	1664.1	1790.9	1535.8	1258.7	1123.2	1034.9	1028.4
77.5°	451.7	461.7	572.9	820.2	1148.4	1286.1	1115.9	823.4	618.1	493.0	466.6
80°	125.9	127.5	170.1	305.4	574.8	755.7	617.0	320.8	180.4	127.1	119.8
82.5°	40.0	43.5	53.0	79.2	193.2	344.8	198.3	85.6	60.9	48.6	43.8
85°	19.5	19.3	26.9	32.2	49.3	76.3	52.5	39.7	34.7	23.1	20.9
87.5°	8.2	8.4	12.5	11.3	14.4	12.3	16.9	17.8	18.7	10.3	8.9
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)