

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: P348734

Luminaire Tested: **ARCH-N-PA1-50-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348734
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-PA1-50-827-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 980mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5113 lumens
Efficiency: N/A
Efficacy: 98.3 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

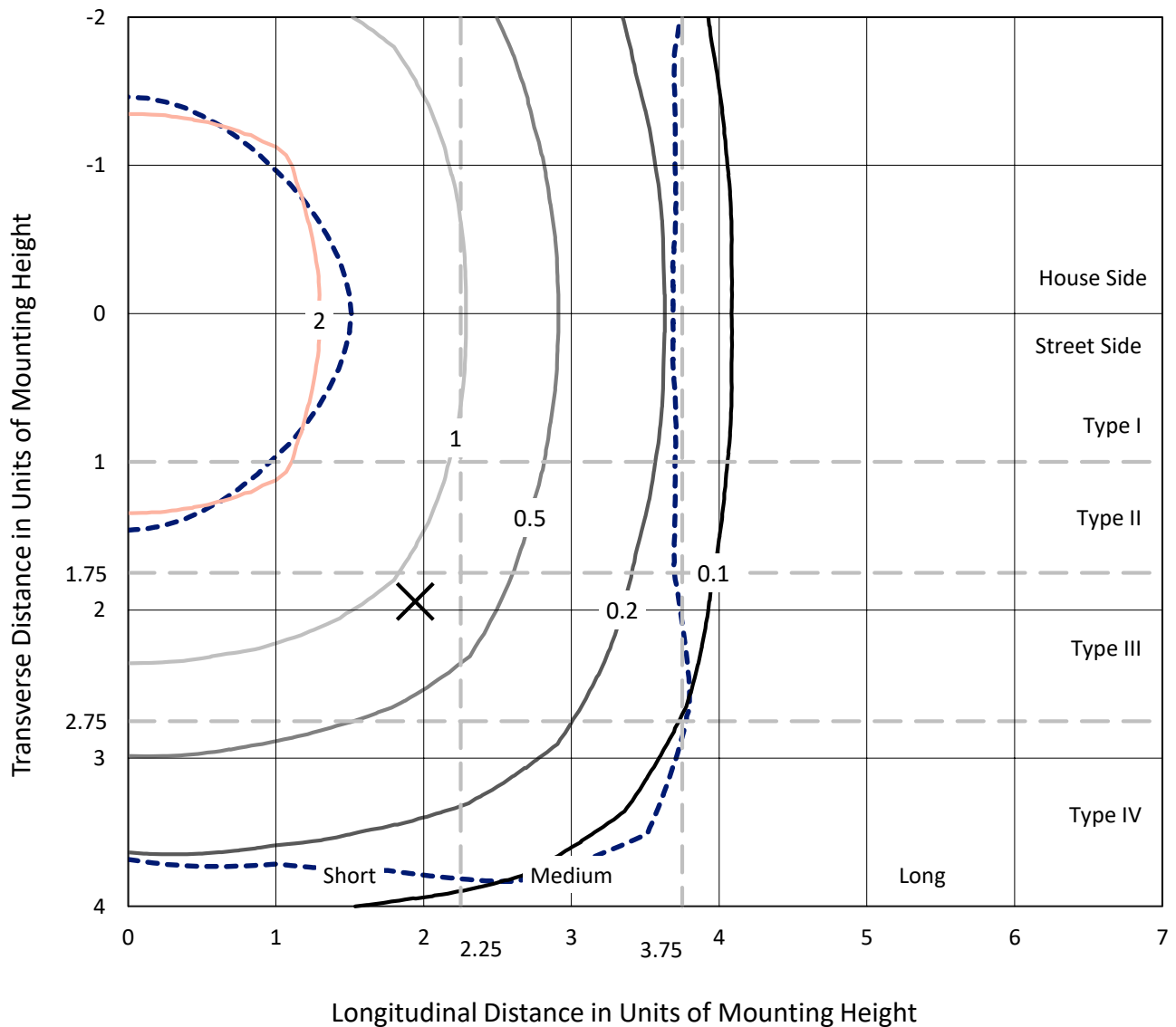
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348734
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

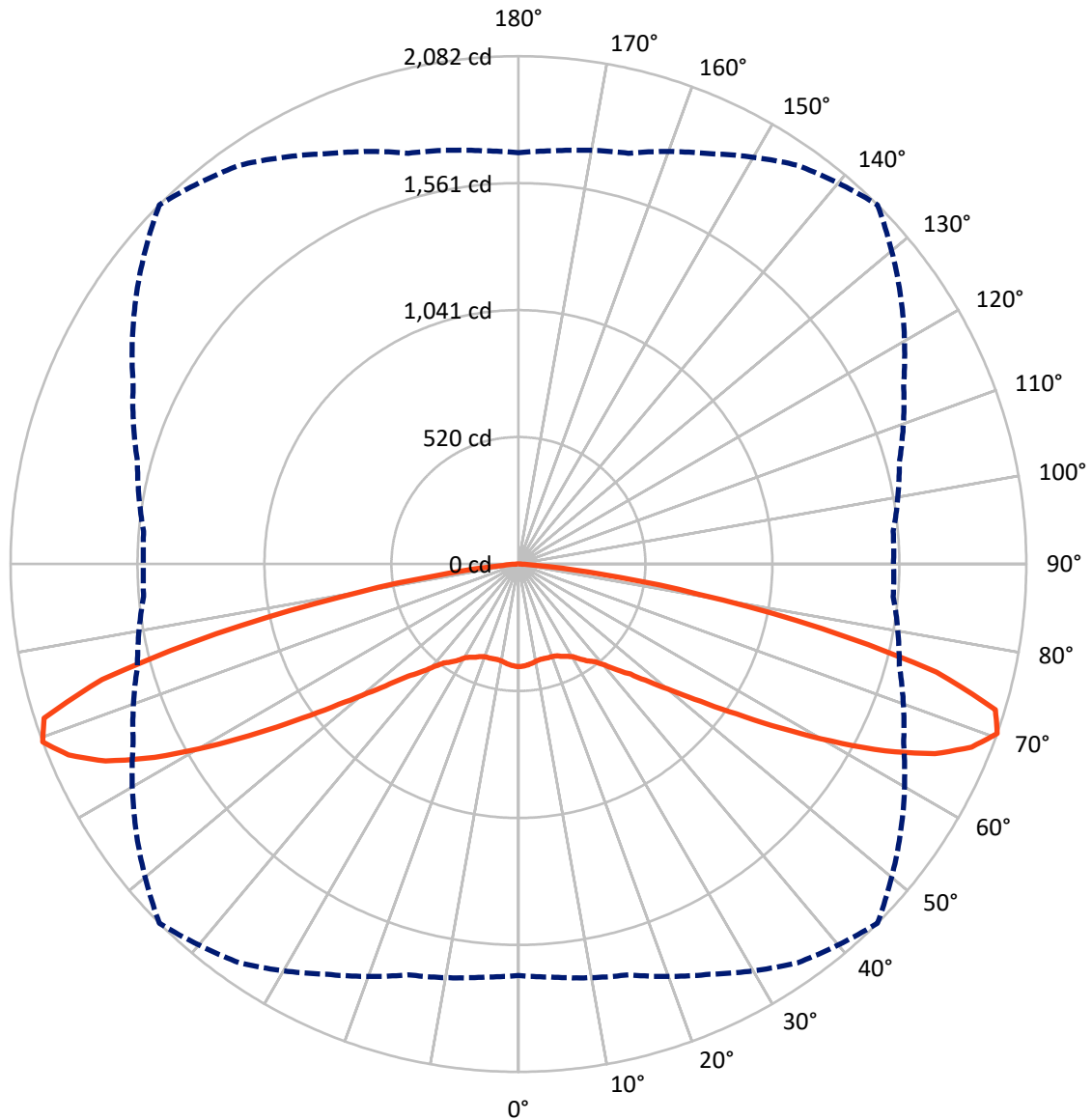


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P348734

CATALOG NUMBER: ARCH-N-PA1-50-827-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P348734

CATALOG NUMBER: ARCH-N-PA1-50-827-U-5WQ

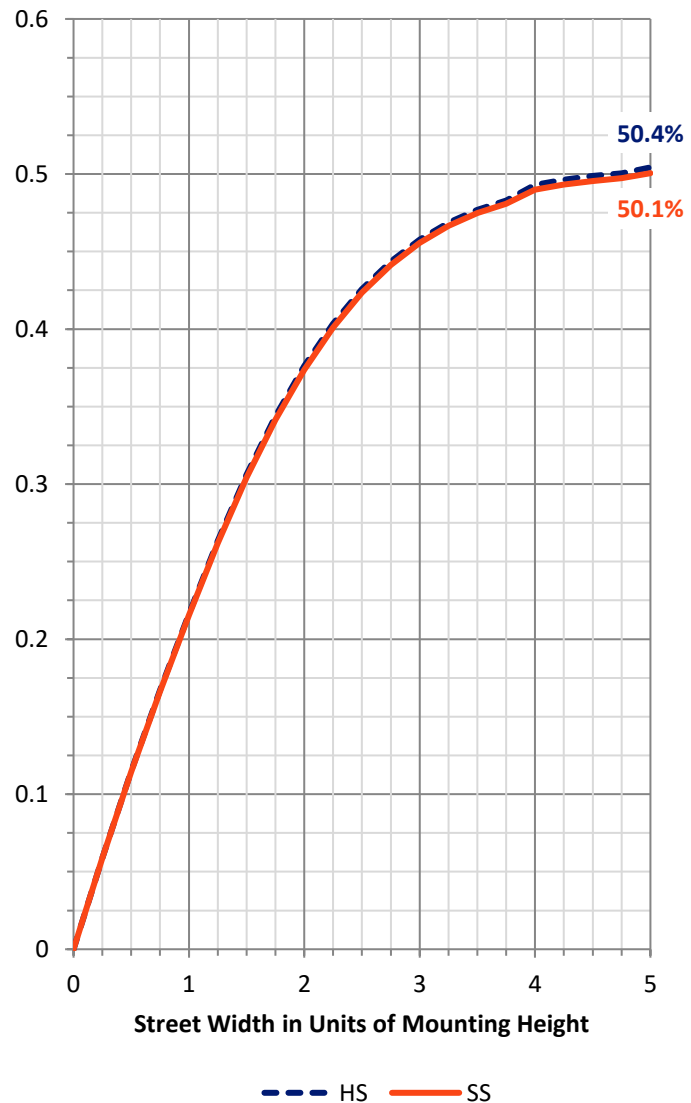
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2556.5	0.0	2556.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2556.5	0.0	2556.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5113.0	0.0	5113.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	0.8
10°-20°	114.7	2.2
20°-30°	195.6	3.8
30°-40°	305.6	6.0
40°-50°	518.0	10.1
50°-60°	944.6	18.5
60°-70°	1626.1	31.8
70°-80°	1274.6	24.9
80°-90°	94.5	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°	5113.0	100.0
0°-180°	5113.0	100.0



REPORT NUMBER: P348734

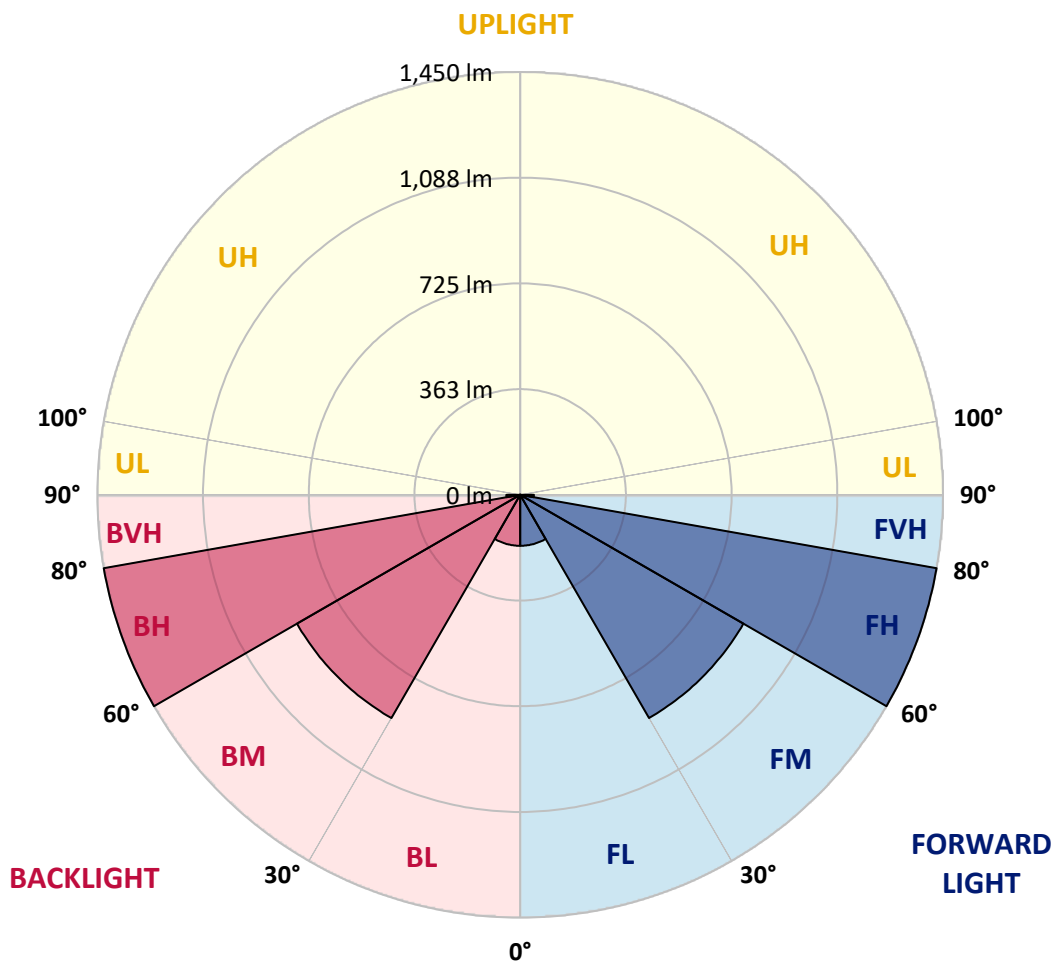
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	174.8	3.4			
FM (30°-60°)	884.1	17.3			
FH (60°-80°)	1450.4	28.4			G1/1800
FVH (80°-90°)	47.3	0.9			G1/100
BL (0°-30°)	174.8	3.4	B1/500		
BM (30°-60°)	884.1	17.3	B1/1000		
BH (60°-80°)	1450.4	28.4	B3/2500		G1/1800
BVH (80°-90°)	47.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	420.8	420.8	420.8	420.8	420.8	420.8	420.8	420.8	420.8	420.8	420.8
2.5°	418.9	419.4	418.9	419.3	418.4	418.8	418.8	418.8	418.6	418.8	418.4
5°	415.2	415.6	414.9	415.2	414.7	415.2	415.4	415.2	414.9	415.1	414.4
7.5°	409.6	410.0	409.5	410.0	409.3	410.1	410.0	409.5	409.0	409.0	408.3
10°	406.6	406.8	405.4	404.9	403.4	403.7	404.2	404.7	405.2	406.3	406.1
12.5°	406.8	406.8	404.7	402.5	400.3	400.8	401.7	403.5	405.6	407.4	407.6
15°	408.5	408.3	405.2	401.7	400.2	401.7	402.2	403.4	406.6	409.8	410.0
17.5°	409.6	409.6	404.9	400.8	400.7	403.0	402.9	403.4	406.9	411.7	411.8
20°	411.8	411.8	405.7	401.4	401.4	403.9	404.1	404.9	408.5	413.7	414.5
22.5°	416.7	416.9	410.5	406.9	407.3	408.8	409.3	410.7	413.9	419.6	420.6
25°	423.7	424.0	417.4	415.4	416.6	419.4	419.1	420.1	423.7	429.3	430.3
27.5°	433.3	432.5	426.4	425.5	426.7	428.7	428.6	428.7	431.6	436.7	437.9
30°	445.8	445.5	441.1	441.6	441.1	440.4	440.6	441.9	443.5	447.5	448.7
32.5°	458.0	458.3	455.6	458.2	461.9	464.4	460.5	456.8	455.1	457.3	458.3
35°	480.0	480.8	476.6	474.9	480.0	487.4	476.4	470.4	473.7	476.6	477.5
37.5°	517.4	517.9	510.8	504.0	500.3	507.4	496.4	496.9	508.7	514.2	514.0
40°	560.0	560.2	555.4	549.5	543.1	544.8	540.4	541.7	549.5	554.4	555.8
42.5°	610.7	610.2	602.8	594.3	592.5	594.2	586.7	585.7	594.7	603.5	603.6
45°	676.5	675.3	665.7	656.4	647.4	643.7	641.9	646.8	659.1	667.2	667.4
47.5°	747.4	744.2	739.1	731.7	723.9	720.2	717.1	719.5	728.5	731.7	732.0
50°	820.3	821.0	822.0	819.1	816.2	815.0	807.1	802.5	805.2	799.3	798.5
52.5°	906.7	908.1	917.9	926.2	931.1	933.6	918.6	902.8	894.0	882.5	879.1
55°	1008.7	1010.9	1025.3	1048.3	1072.0	1084.5	1057.2	1027.8	1000.6	979.1	972.2
57.5°	1122.4	1126.3	1146.0	1190.2	1238.7	1268.3	1222.3	1168.9	1116.3	1085.3	1079.9
60°	1255.6	1259.4	1286.8	1350.0	1428.7	1473.1	1403.5	1316.0	1250.6	1221.0	1211.0
62.5°	1414.3	1414.6	1448.3	1522.2	1626.0	1687.9	1593.6	1476.7	1409.2	1373.5	1363.9
65°	1584.9	1585.8	1620.6	1700.5	1807.9	1875.2	1768.6	1646.8	1564.3	1511.7	1504.3
67.5°	1705.5	1709.1	1745.8	1841.8	1942.3	2003.0	1892.8	1755.1	1659.7	1596.9	1590.7
70°	1686.2	1700.1	1743.2	1855.4	1995.1	2081.7	1912.9	1742.2	1616.4	1542.3	1537.1
72.5°	1470.6	1497.2	1554.7	1701.8	1925.2	2044.5	1803.1	1560.4	1418.0	1354.9	1345.4
75°	1001.4	1044.6	1131.3	1343.6	1644.8	1770.1	1518.0	1244.1	1110.2	1022.9	1016.5
77.5°	446.5	456.3	566.3	810.7	1135.0	1271.2	1102.9	813.9	610.9	487.3	461.2
80°	124.5	126.0	168.1	301.9	568.1	746.9	609.9	317.1	178.3	125.7	118.4
82.5°	39.6	43.0	52.4	78.3	191.0	340.8	196.0	84.6	60.2	48.0	43.3
85°	19.3	19.1	26.6	31.8	48.7	75.4	51.9	39.2	34.3	22.8	20.6
87.5°	8.1	8.3	12.3	11.2	14.2	12.2	16.7	17.6	18.4	10.1	8.8
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)