

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: P397832

Luminaire Tested: **ARCH-S-PA1-50-730-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397832
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-S-PA1-50-730-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7322 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

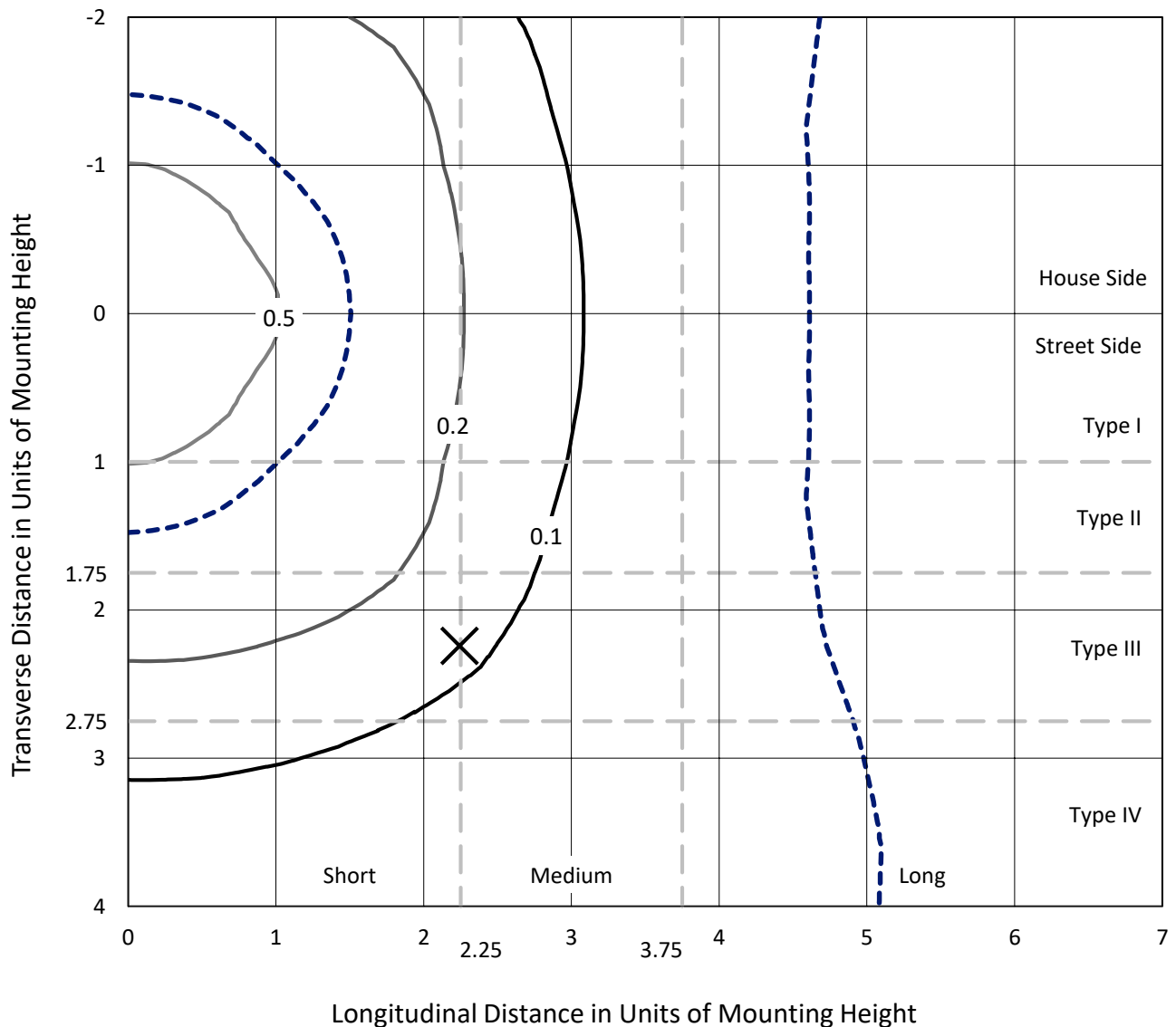
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

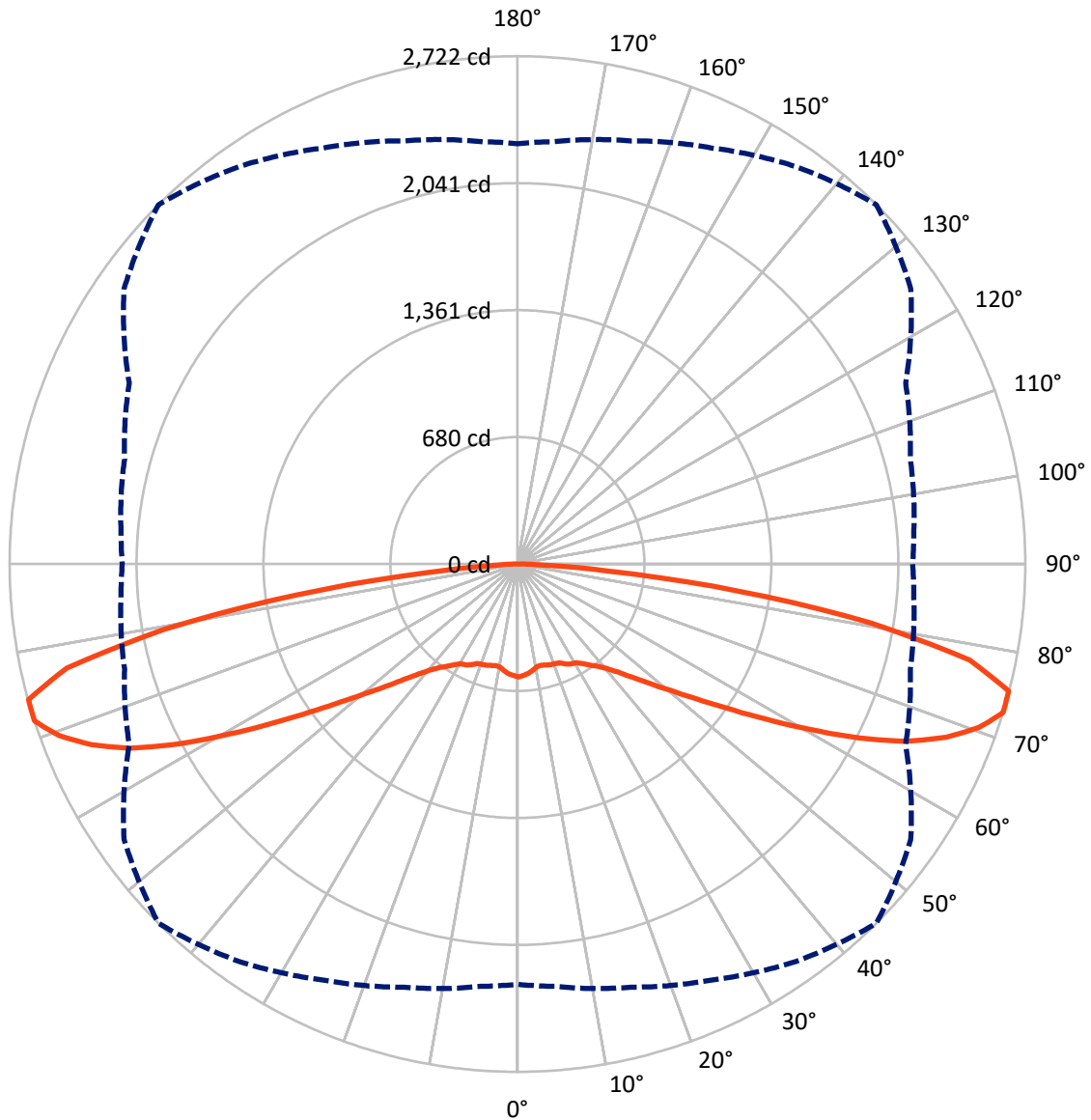


Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - Non-Cutoff

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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	3661.0	0.0	3661.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3661.0	0.0	3661.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7322.0	0.0	7322.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	0.8
10°-20°	161.3	2.2
20°-30°	274.0	3.7
30°-40°	418.0	5.7
40°-50°	688.2	9.4
50°-60°	1201.9	16.4
60°-70°	2014.9	27.5
70°-80°	2156.4	29.5
80°-90°	351.7	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°	7322.0	100.0
0°-180°	7322.0	100.0



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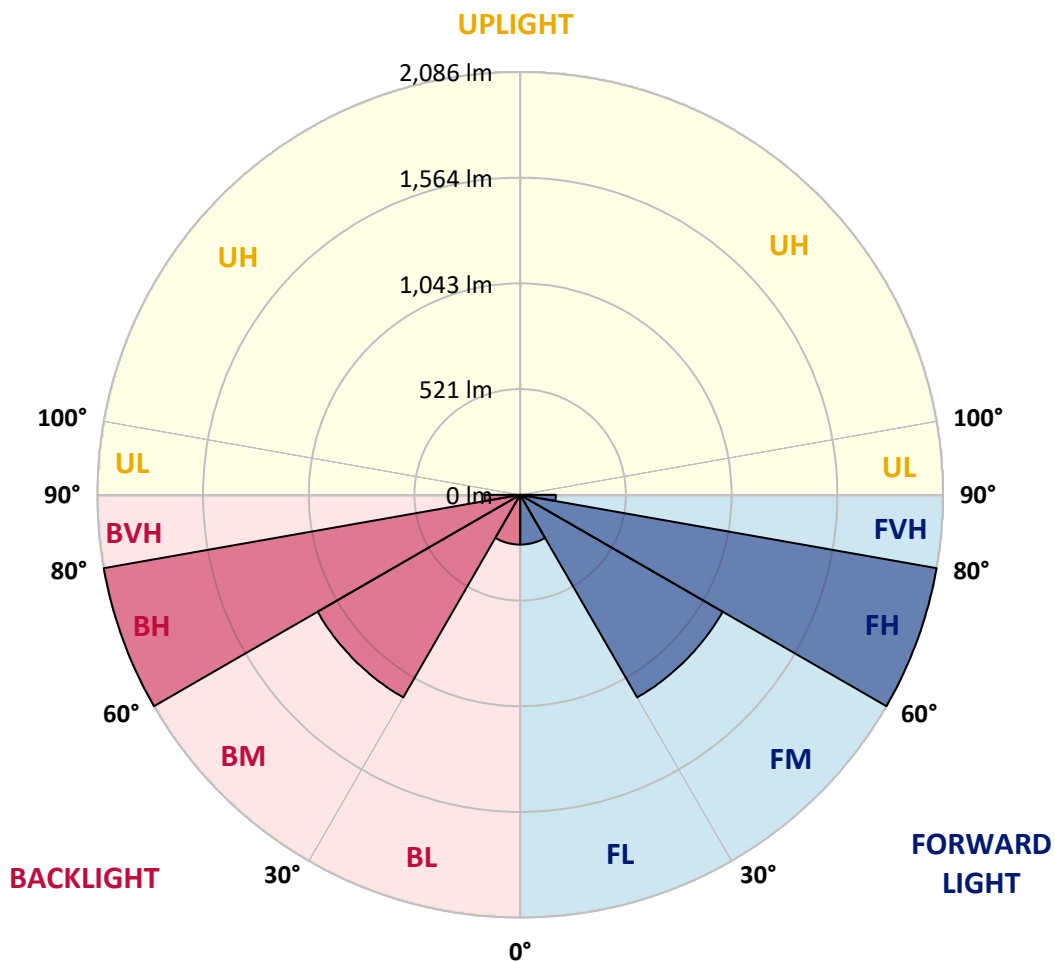
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	245.4	3.4			
FM	(30°-60°)	1154.0	15.8			
FH	(60°-80°)	2085.7	28.5			G2/5000
FVH	(80°-90°)	175.9	2.4			G2/225
BL	(0°-30°)	245.4	3.4	B1/500		
BM	(30°-60°)	1154.0	15.8	B2/2500		
BH	(60°-80°)	2085.7	28.5	B3/2500		G2/5000
BVH	(80°-90°)	175.9	2.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9
2.5°	602.2	602.2	602.2	601.2	599.4	598.4	596.6	597.5	597.5	597.5	597.5
5°	594.7	594.7	593.7	592.8	590.9	590.0	588.1	590.0	590.0	590.0	590.0
7.5°	580.7	581.6	581.6	580.7	577.9	576.9	574.1	575.0	575.0	576.0	575.0
10°	573.2	573.2	572.2	567.6	562.9	561.0	560.1	562.9	565.7	568.5	568.5
12.5°	573.2	573.2	571.3	563.8	557.3	557.3	557.3	561.0	566.6	572.2	573.2
15°	576.0	576.0	572.2	563.8	560.1	561.0	561.0	564.8	571.3	578.8	579.7
17.5°	577.9	577.9	573.2	564.8	564.8	567.6	565.7	568.5	575.0	583.5	584.4
20°	580.7	580.7	574.1	567.6	567.6	570.4	570.4	573.2	578.8	587.2	588.1
22.5°	586.3	585.3	578.8	573.2	573.2	575.0	576.9	580.7	585.3	592.8	594.7
25°	592.8	592.8	587.2	586.3	588.1	592.8	591.9	590.9	592.8	599.4	602.2
27.5°	596.6	596.6	592.8	595.6	603.1	606.8	602.2	598.4	598.4	605.0	605.9
30°	608.7	607.8	604.0	605.9	612.4	614.3	611.5	606.8	609.6	617.1	618.1
32.5°	629.3	629.3	623.7	623.7	628.3	635.8	626.5	623.7	627.4	635.8	636.8
35°	661.1	661.1	653.6	649.9	653.6	663.9	649.9	648.9	655.5	664.8	665.7
37.5°	701.3	701.3	696.6	687.3	688.2	694.7	682.6	681.6	693.8	704.1	704.1
40°	751.8	754.6	749.9	738.7	734.9	735.9	726.5	727.5	741.5	753.6	753.6
42.5°	814.4	816.3	808.8	800.4	795.7	792.9	783.6	785.4	802.3	818.2	818.2
45°	890.2	891.1	883.6	873.3	867.7	865.8	856.5	861.2	879.9	896.7	895.8
47.5°	975.2	976.2	968.7	958.4	954.7	957.5	948.1	948.1	965.0	979.0	977.1
50°	1071.6	1073.4	1065.0	1060.3	1057.5	1065.0	1053.8	1043.5	1054.7	1068.7	1066.9
52.5°	1178.1	1182.8	1177.2	1179.1	1189.4	1198.7	1180.0	1157.6	1163.2	1172.5	1169.7
55°	1307.2	1312.8	1314.7	1321.2	1348.3	1364.2	1333.4	1296.0	1293.2	1294.1	1289.4
57.5°	1452.1	1455.9	1468.0	1483.0	1539.1	1564.3	1515.7	1451.2	1430.6	1418.5	1415.6
60°	1598.0	1604.5	1634.4	1665.3	1751.3	1797.1	1722.3	1613.9	1569.9	1547.5	1542.8
62.5°	1744.8	1757.9	1806.5	1858.9	1984.1	2052.4	1937.4	1780.3	1716.7	1688.7	1681.2
65°	1915.0	1930.9	1989.8	2056.1	2195.5	2291.8	2152.5	1952.4	1884.1	1846.7	1837.3
67.5°	2114.1	2130.9	2178.6	2252.5	2384.3	2478.8	2355.4	2128.1	2039.3	1991.6	1984.1
70°	2277.7	2292.7	2344.1	2418.9	2517.1	2624.6	2506.8	2268.4	2188.0	2154.3	2149.6
72.5°	2252.5	2272.1	2347.9	2460.1	2600.3	2721.9	2573.2	2295.5	2179.6	2132.8	2117.9
75°	1967.3	1988.8	2078.6	2281.5	2537.7	2719.1	2476.9	2115.1	1978.5	1939.3	1931.8
77.5°	1302.5	1323.1	1474.6	1794.3	2216.0	2477.8	2186.1	1771.9	1552.2	1457.7	1452.1
80°	526.4	552.6	697.5	1037.0	1570.9	1926.2	1621.4	1134.2	764.9	617.1	587.2
82.5°	122.5	145.9	212.3	382.4	804.1	1199.7	874.3	423.6	245.9	174.9	157.1
85°	51.4	52.4	90.7	124.4	251.5	484.3	286.1	154.3	125.3	91.6	89.8
87.5°	19.6	20.6	43.9	52.4	80.4	91.6	97.2	79.5	73.9	45.8	43.9
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)