

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: P397688

Luminaire Tested: **ARCH-S-PA1-30-730-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397688
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-PA1-30-730-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4401 lumens
Efficiency: N/A
Efficacy: 142.0 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): 31
Input Voltage (V): NR
Input Current (A_{in}): 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

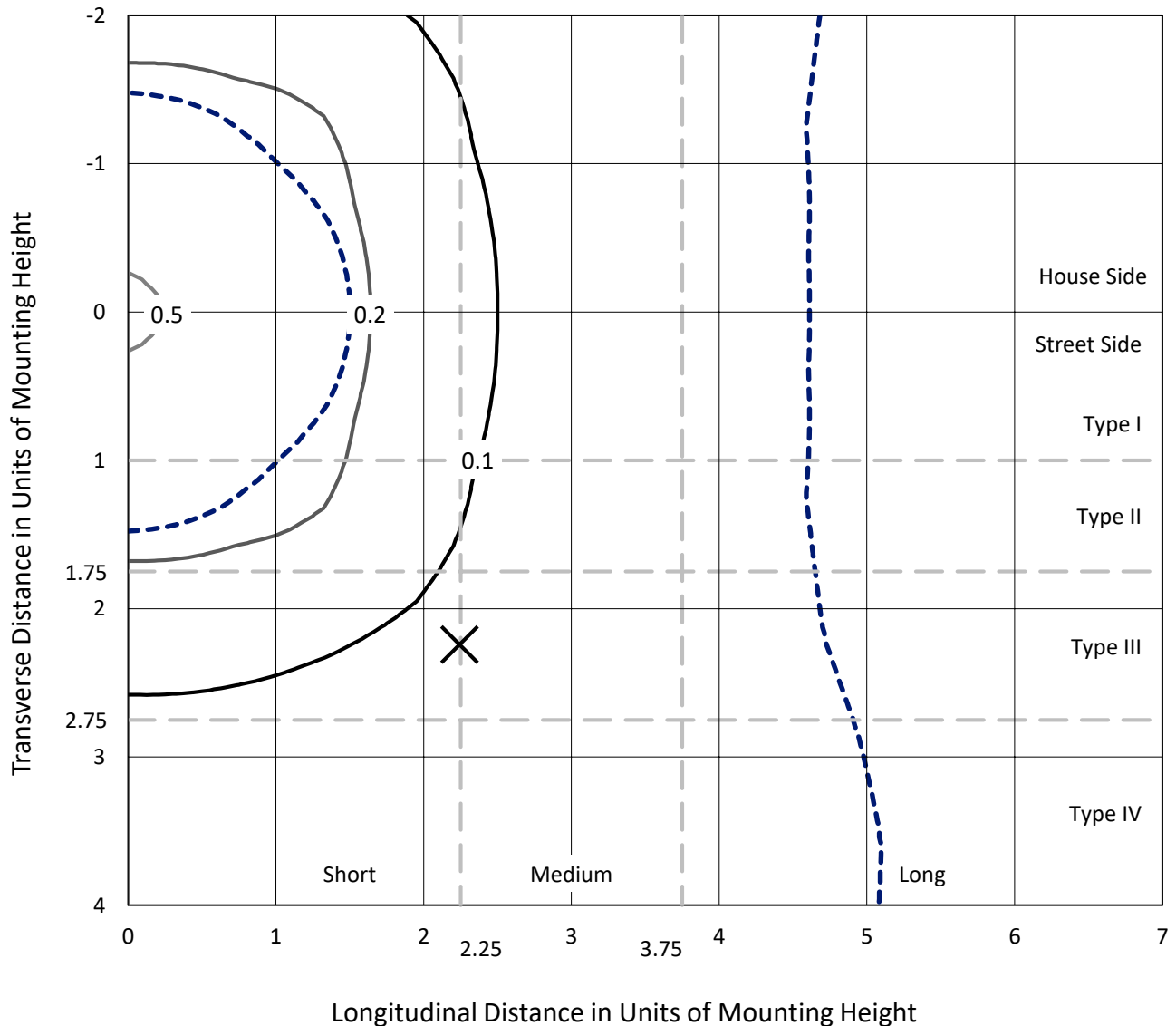




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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

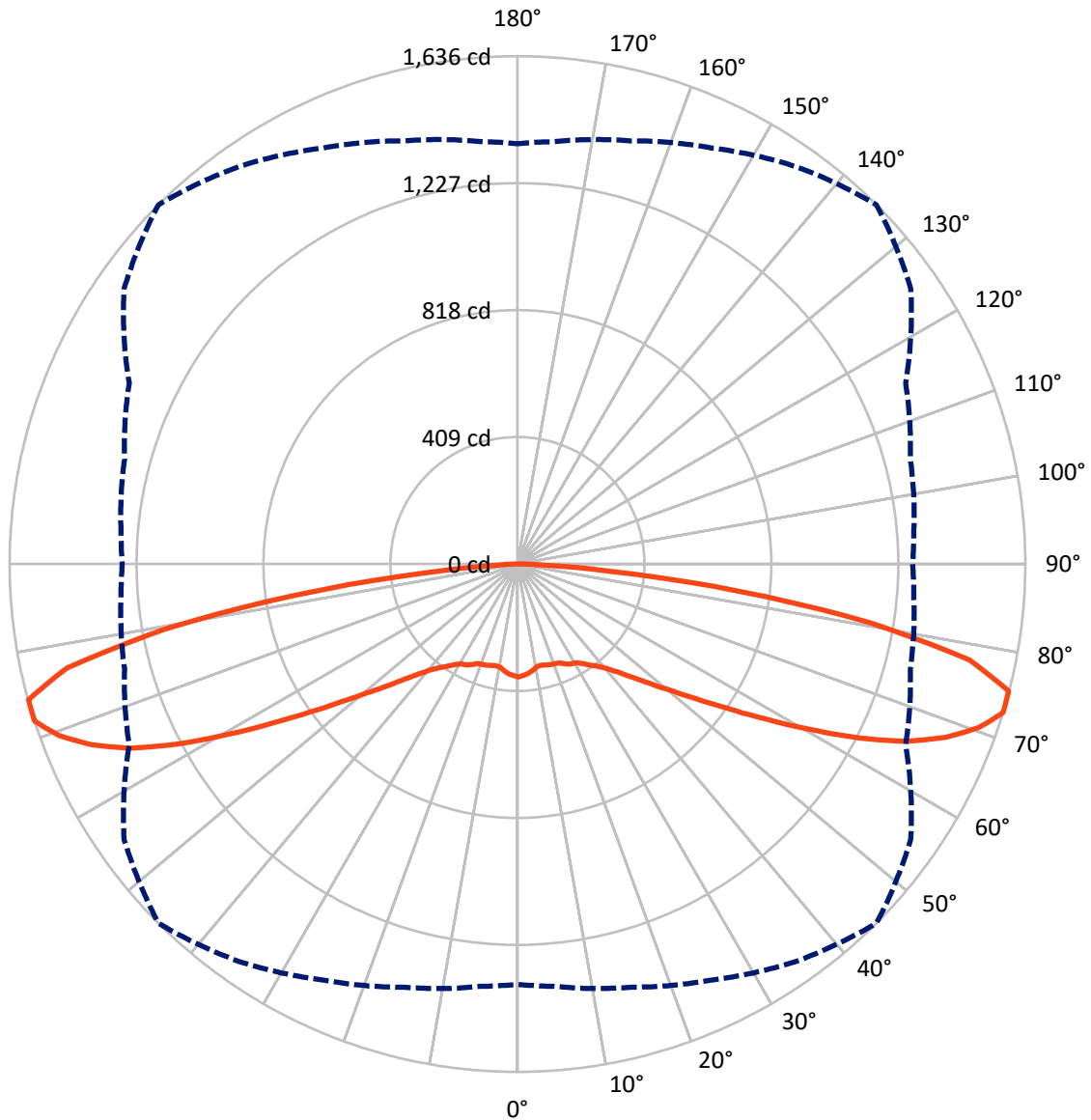


Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - Non-Cutoff

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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	2200.5	0.0	2200.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2200.5	0.0	2200.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4401.0	0.0	4401.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	0.8
10°-20°	96.9	2.2
20°-30°	164.7	3.7
30°-40°	251.2	5.7
40°-50°	413.7	9.4
50°-60°	722.4	16.4
60°-70°	1211.1	27.5
70°-80°	1296.1	29.5
80°-90°	211.4	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°	4401.0	100.0
0°-180°	4401.0	100.0



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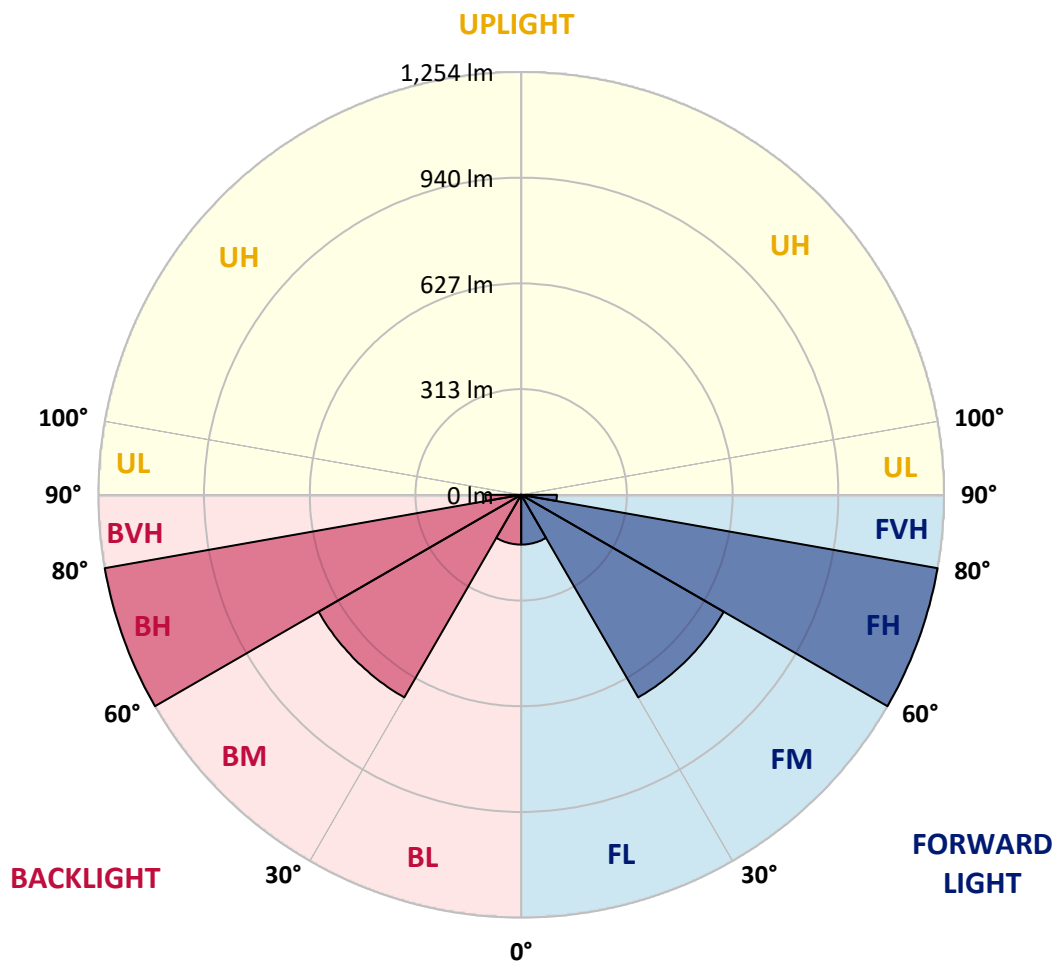
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	147.5	3.4			
FM (30°-60°)	693.7	15.8			
FH (60°-80°)	1253.6	28.5			G1/1800
FVH (80°-90°)	105.7	2.4			G2/225
BL (0°-30°)	147.5	3.4	B1/500		
BM (30°-60°)	693.7	15.8	B1/1000		
BH (60°-80°)	1253.6	28.5	B3/2500		G1/1800
BVH (80°-90°)	105.7	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°	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2
2.5°	361.9	361.9	361.9	361.4	360.3	359.7	358.6	359.1	359.1	359.1	359.1
5°	357.4	357.4	356.9	356.3	355.2	354.6	353.5	354.6	354.6	354.6	354.6
7.5°	349.0	349.6	349.6	349.0	347.3	346.8	345.1	345.6	345.6	346.2	345.6
10°	344.5	344.5	344.0	341.1	338.3	337.2	336.6	338.3	340.0	341.7	341.7
12.5°	344.5	344.5	343.4	338.9	335.0	335.0	335.0	337.2	340.6	344.0	344.5
15°	346.2	346.2	344.0	338.9	336.6	337.2	337.2	339.5	343.4	347.9	348.5
17.5°	347.3	347.3	344.5	339.5	339.5	341.1	340.0	341.7	345.6	350.7	351.3
20°	349.0	349.0	345.1	341.1	341.1	342.8	342.8	344.5	347.9	352.9	353.5
22.5°	352.4	351.8	347.9	344.5	344.5	345.6	346.8	349.0	351.8	356.3	357.4
25°	356.3	356.3	352.9	352.4	353.5	356.3	355.8	355.2	356.3	360.3	361.9
27.5°	358.6	358.6	356.3	358.0	362.5	364.7	361.9	359.7	359.7	363.6	364.2
30°	365.9	365.3	363.1	364.2	368.1	369.2	367.6	364.7	366.4	370.9	371.5
32.5°	378.2	378.2	374.9	374.9	377.7	382.2	376.6	374.9	377.1	382.2	382.7
35°	397.3	397.3	392.9	390.6	392.9	399.0	390.6	390.0	394.0	399.6	400.2
37.5°	421.5	421.5	418.7	413.1	413.6	417.6	410.3	409.7	417.0	423.2	423.2
40°	451.9	453.5	450.7	444.0	441.7	442.3	436.7	437.2	445.7	453.0	453.0
42.5°	489.5	490.6	486.1	481.1	478.3	476.6	471.0	472.1	482.2	491.8	491.8
45°	535.0	535.6	531.1	524.9	521.6	520.4	514.8	517.6	528.9	539.0	538.4
47.5°	586.2	586.7	582.3	576.1	573.8	575.5	569.9	569.9	580.0	588.4	587.3
50°	644.1	645.2	640.1	637.3	635.6	640.1	633.4	627.2	634.0	642.4	641.3
52.5°	708.1	711.0	707.6	708.7	714.9	720.5	709.3	695.8	699.2	704.8	703.1
55°	785.7	789.1	790.2	794.1	810.4	820.0	801.4	779.0	777.3	777.8	775.0
57.5°	872.8	875.1	882.4	891.4	925.1	940.3	911.0	872.3	859.9	852.6	850.9
60°	960.5	964.4	982.4	1001.0	1052.7	1080.2	1035.2	970.0	943.6	930.1	927.3
62.5°	1048.7	1056.6	1085.8	1117.3	1192.6	1233.6	1164.5	1070.1	1031.9	1015.0	1010.5
65°	1151.0	1160.6	1196.0	1235.9	1319.6	1377.5	1293.8	1173.5	1132.5	1110.0	1104.4
67.5°	1270.7	1280.8	1309.5	1353.9	1433.1	1489.9	1415.7	1279.2	1225.8	1197.1	1192.6
70°	1369.1	1378.1	1409.0	1453.9	1513.0	1577.6	1506.8	1363.5	1315.1	1294.9	1292.1
72.5°	1353.9	1365.7	1411.2	1478.7	1563.0	1636.0	1546.7	1379.8	1310.1	1282.0	1273.0
75°	1182.5	1195.4	1249.4	1371.3	1525.3	1634.3	1488.8	1271.3	1189.2	1165.6	1161.1
77.5°	782.9	795.3	886.3	1078.5	1332.0	1489.3	1314.0	1065.0	932.9	876.2	872.8
80°	316.4	332.2	419.3	623.3	944.2	1157.8	974.5	681.7	459.7	370.9	352.9
82.5°	73.6	87.7	127.6	229.9	483.3	721.1	525.5	254.6	147.8	105.1	94.4
85°	30.9	31.5	54.5	74.7	151.2	291.1	172.0	92.7	75.3	55.1	54.0
87.5°	11.8	12.4	26.4	31.5	48.3	55.1	58.4	47.8	44.4	27.5	26.4
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)