

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: P397697

Luminaire Tested: **ARCH-S-PA1-30-740-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397697
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-PA1-30-740-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 4832 lumens
Efficiency: N/A
Efficacy: 155.9 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

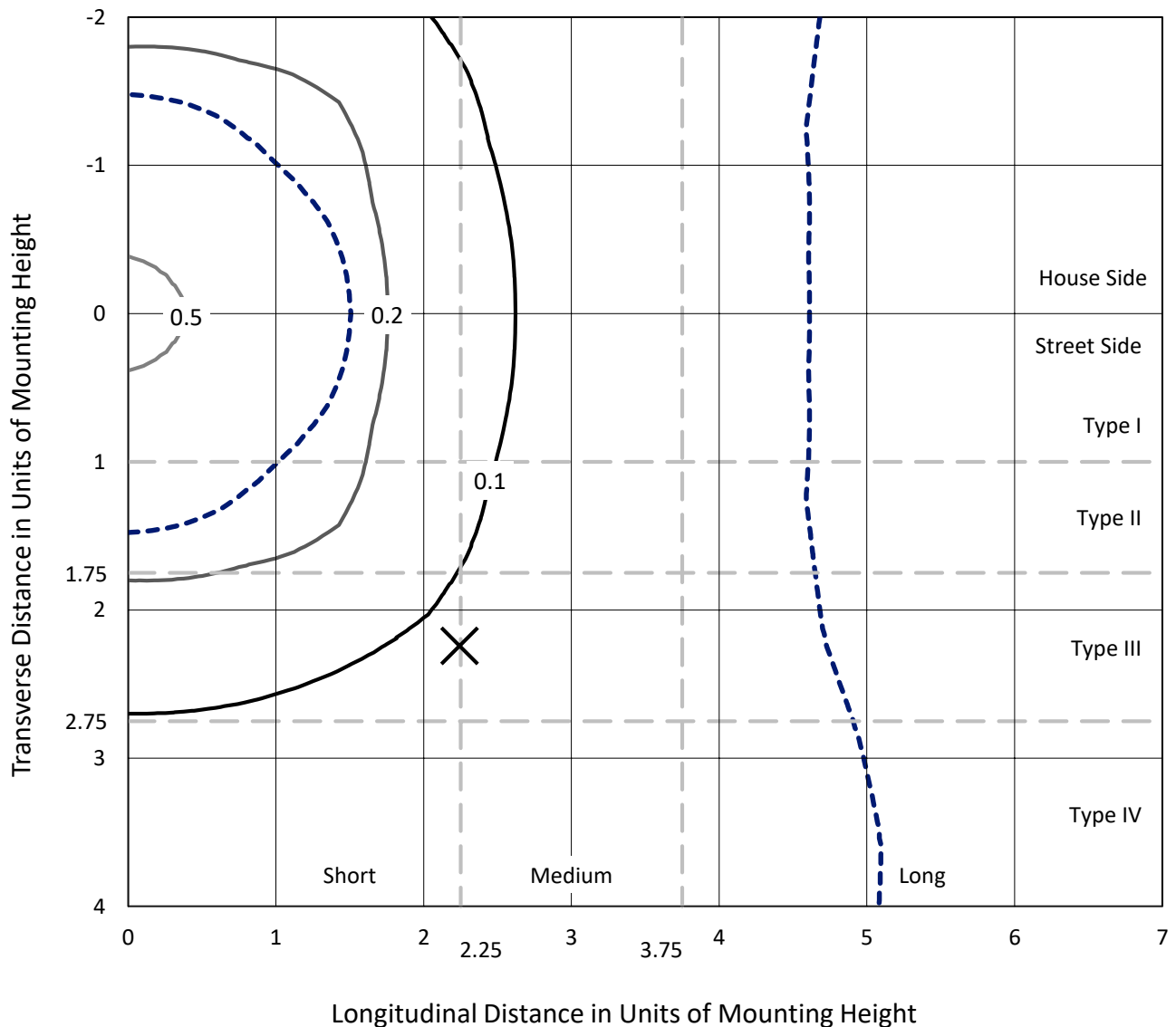
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

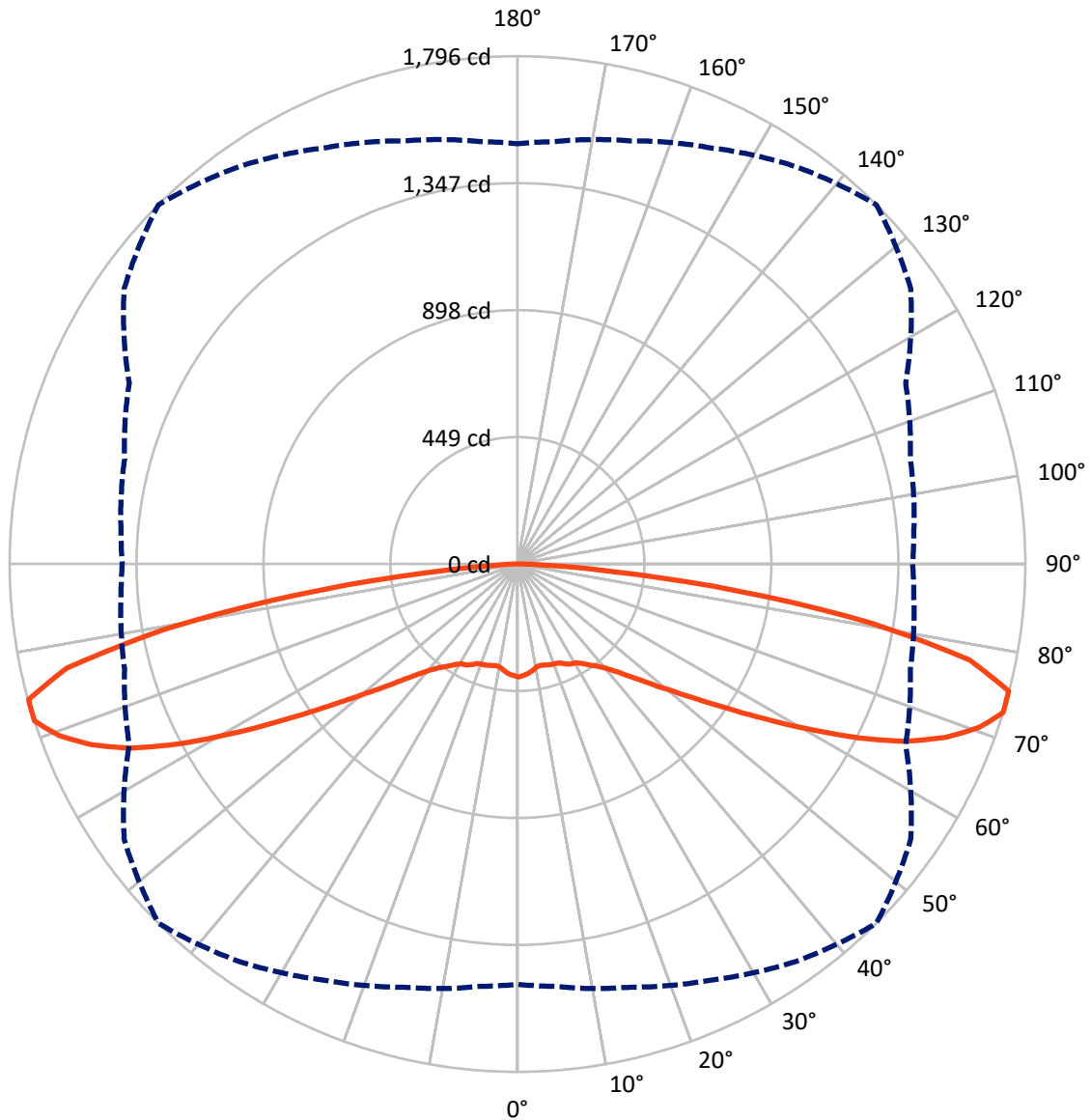


Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - Non-Cutoff

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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	2416.0	0.0	2416.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2416.0	0.0	2416.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4832.0	0.0	4832.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	0.8
10°-20°	106.4	2.2
20°-30°	180.8	3.7
30°-40°	275.8	5.7
40°-50°	454.2	9.4
50°-60°	793.1	16.4
60°-70°	1329.7	27.5
70°-80°	1423.1	29.5
80°-90°	232.1	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°	4832.0	100.0
0°-180°	4832.0	100.0



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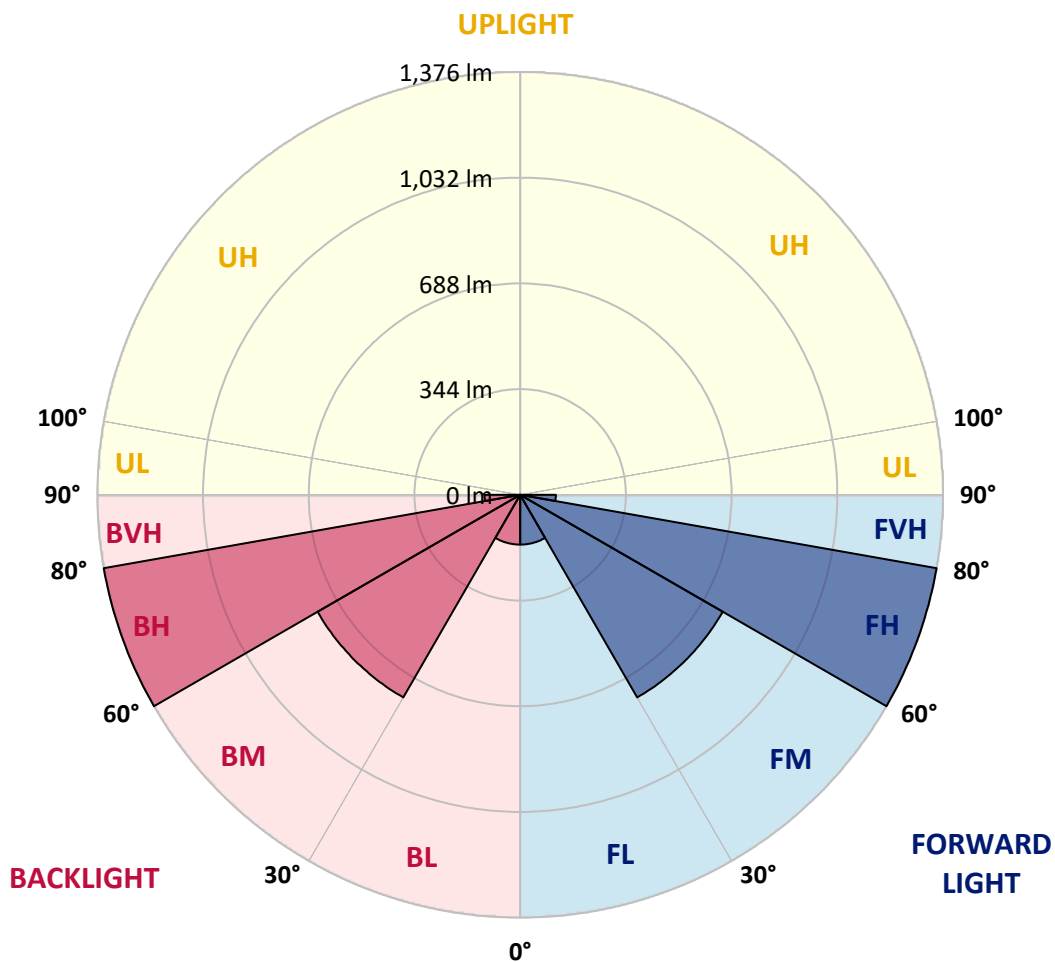
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	162.0	3.4			
FM (30°-60°)	761.6	15.8			
FH (60°-80°)	1376.4	28.5			G1/1800
FVH (80°-90°)	116.1	2.4			G2/225
BL (0°-30°)	162.0	3.4	B1/500		
BM (30°-60°)	761.6	15.8	B1/1000		
BH (60°-80°)	1376.4	28.5	B3/2500		G1/1800
BVH (80°-90°)	116.1	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°	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9
2.5°	397.4	397.4	397.4	396.8	395.5	394.9	393.7	394.3	394.3	394.3	394.3
5°	392.4	392.4	391.8	391.2	390.0	389.4	388.1	389.4	389.4	389.4	389.4
7.5°	383.2	383.8	383.8	383.2	381.3	380.7	378.9	379.5	379.5	380.1	379.5
10°	378.3	378.3	377.6	374.6	371.5	370.2	369.6	371.5	373.3	375.2	375.2
12.5°	378.3	378.3	377.0	372.1	367.8	367.8	367.8	370.2	373.9	377.6	378.3
15°	380.1	380.1	377.6	372.1	369.6	370.2	370.2	372.7	377.0	382.0	382.6
17.5°	381.3	381.3	378.3	372.7	372.7	374.6	373.3	375.2	379.5	385.0	385.7
20°	383.2	383.2	378.9	374.6	374.6	376.4	376.4	378.3	382.0	387.5	388.1
22.5°	386.9	386.3	382.0	378.3	378.3	379.5	380.7	383.2	386.3	391.2	392.4
25°	391.2	391.2	387.5	386.9	388.1	391.2	390.6	390.0	391.2	395.5	397.4
27.5°	393.7	393.7	391.2	393.1	398.0	400.5	397.4	394.9	394.9	399.2	399.9
30°	401.7	401.1	398.6	399.9	404.2	405.4	403.6	400.5	402.3	407.3	407.9
32.5°	415.3	415.3	411.6	411.6	414.7	419.6	413.4	411.6	414.0	419.6	420.2
35°	436.3	436.3	431.3	428.9	431.3	438.1	428.9	428.2	432.6	438.7	439.3
37.5°	462.8	462.8	459.7	453.5	454.2	458.5	450.5	449.8	457.9	464.6	464.6
40°	496.1	498.0	494.9	487.5	485.0	485.6	479.5	480.1	489.3	497.3	497.3
42.5°	537.5	538.7	533.8	528.2	525.1	523.3	517.1	518.3	529.4	539.9	539.9
45°	587.4	588.1	583.1	576.3	572.6	571.4	565.2	568.3	580.7	591.8	591.1
47.5°	643.6	644.2	639.3	632.5	630.0	631.9	625.7	625.7	636.8	646.1	644.8
50°	707.1	708.4	702.8	699.7	697.9	702.8	695.4	688.6	696.0	705.3	704.1
52.5°	777.5	780.6	776.9	778.1	784.9	791.1	778.7	763.9	767.6	773.8	771.9
55°	862.6	866.3	867.6	871.9	889.8	900.3	879.9	855.2	853.4	854.0	850.9
57.5°	958.3	960.8	968.8	978.7	1015.7	1032.3	1000.3	957.7	944.1	936.1	934.2
60°	1054.6	1058.9	1078.6	1099.0	1155.7	1186.0	1136.6	1065.0	1036.0	1021.2	1018.1
62.5°	1151.4	1160.1	1192.2	1226.7	1309.4	1354.4	1278.5	1174.9	1132.9	1114.4	1109.5
65°	1263.7	1274.2	1313.1	1356.9	1448.9	1512.4	1420.5	1288.4	1243.4	1218.7	1212.5
67.5°	1395.2	1406.3	1437.7	1486.5	1573.5	1635.8	1554.4	1404.4	1345.8	1314.3	1309.4
70°	1503.2	1513.0	1547.0	1596.3	1661.1	1732.1	1654.3	1497.0	1443.9	1421.7	1418.6
72.5°	1486.5	1499.5	1549.4	1623.5	1716.0	1796.3	1698.1	1514.9	1438.4	1407.5	1397.6
75°	1298.3	1312.5	1371.7	1505.6	1674.7	1794.4	1634.6	1395.8	1305.7	1279.8	1274.8
77.5°	859.6	873.1	973.1	1184.1	1462.4	1635.2	1442.7	1169.3	1024.3	962.0	958.3
80°	347.4	364.7	460.3	684.3	1036.7	1271.1	1070.0	748.5	504.8	407.3	387.5
82.5°	80.8	96.3	140.1	252.4	530.7	791.7	576.9	279.5	162.3	115.4	103.7
85°	33.9	34.6	59.9	82.1	166.0	319.6	188.8	101.8	82.7	60.5	59.2
87.5°	13.0	13.6	29.0	34.6	53.1	60.5	64.2	52.4	48.7	30.2	29.0
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)