

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: P234674

Luminaire Tested: **ARCH-AF24-30-D-U-5WQ-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-AF24-30-D-U-5WQ-8027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 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: 3160 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U0 - G1

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

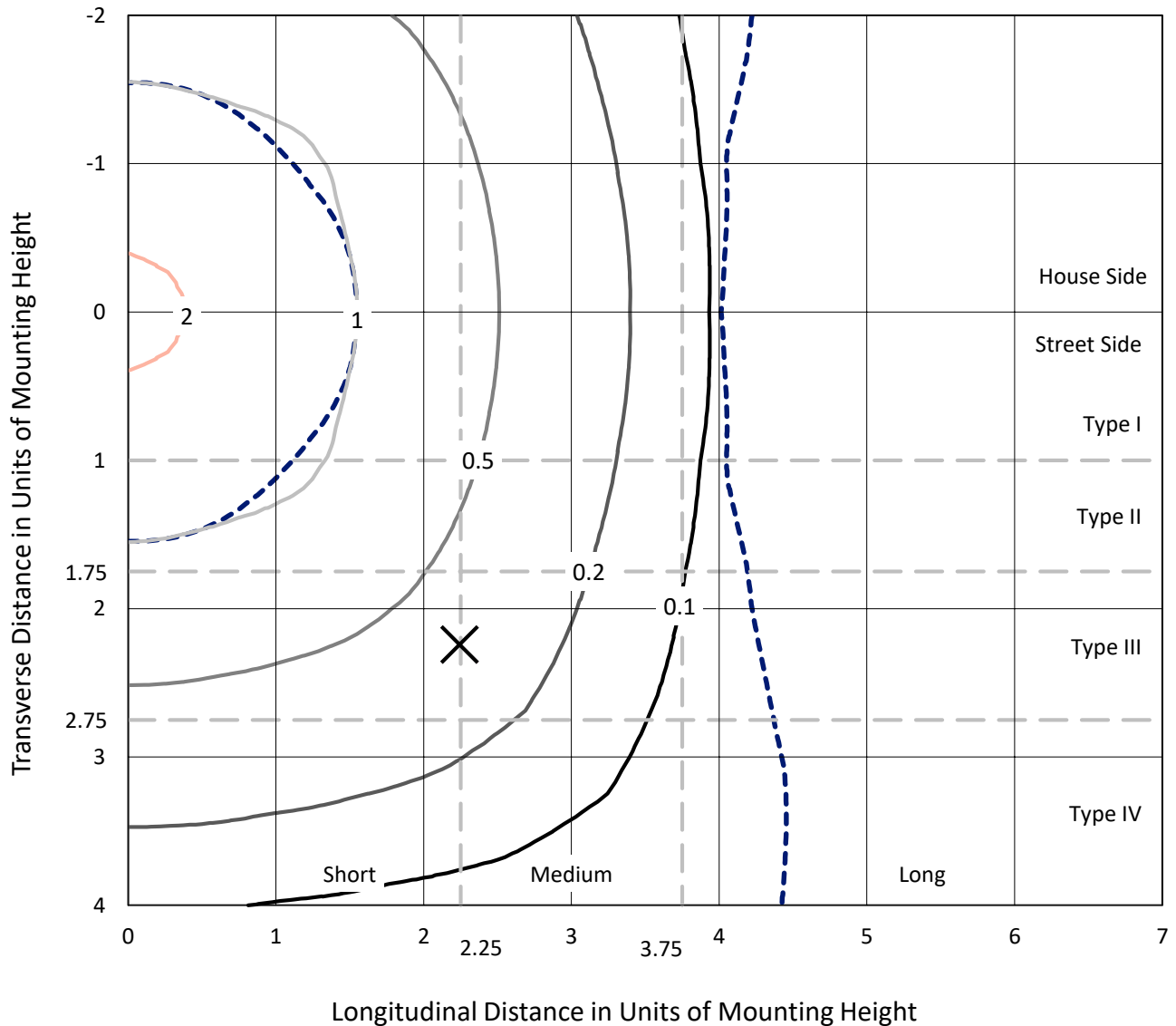


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

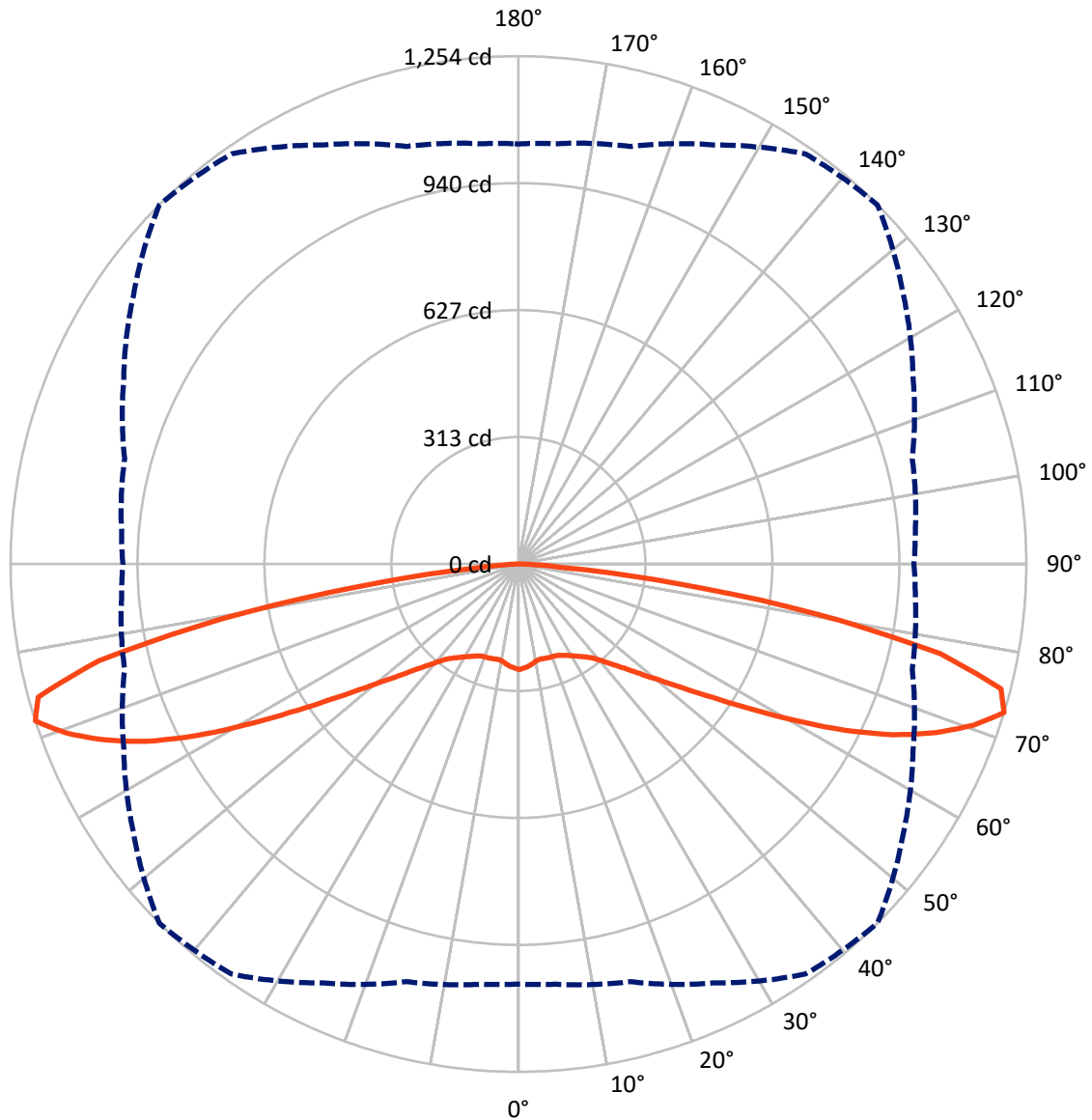


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Non-Cutoff

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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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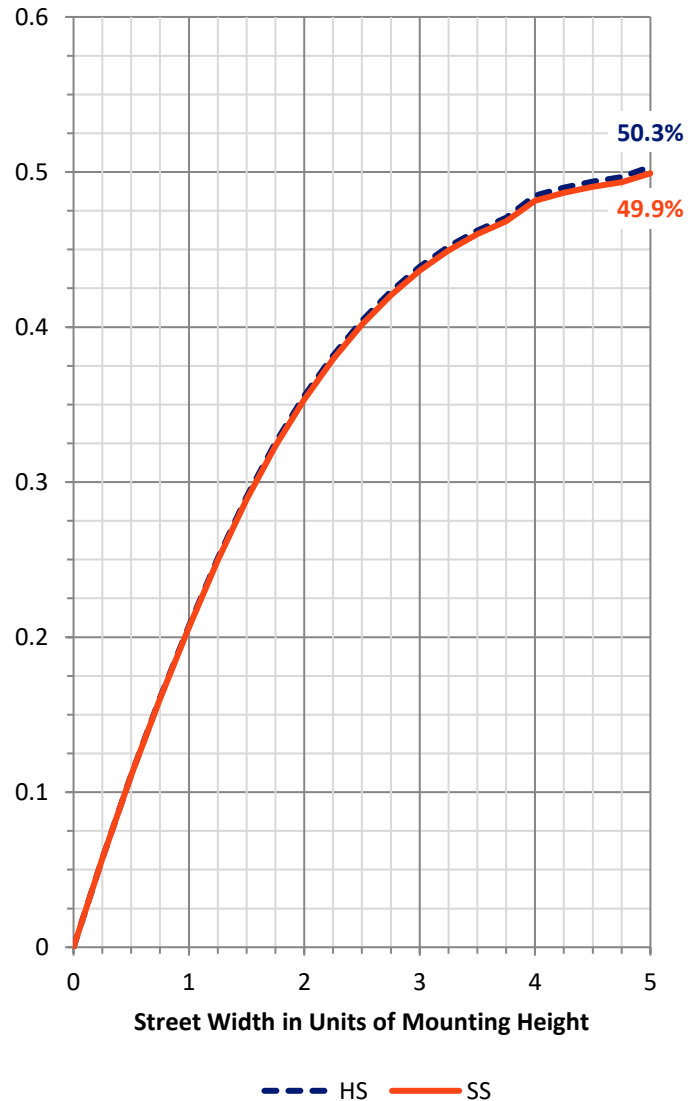
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1580.0	0.0	1580.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1580.0	0.0	1580.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3160.0	0.0	3160.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.0	0.8
10°-20°	69.1	2.2
20°-30°	115.7	3.7
30°-40°	177.8	5.6
40°-50°	294.4	9.3
50°-60°	523.4	16.6
60°-70°	915.6	29.0
70°-80°	931.6	29.5
80°-90°	108.5	3.4
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°	3160.0	100.0
0°-180°	3160.0	100.0



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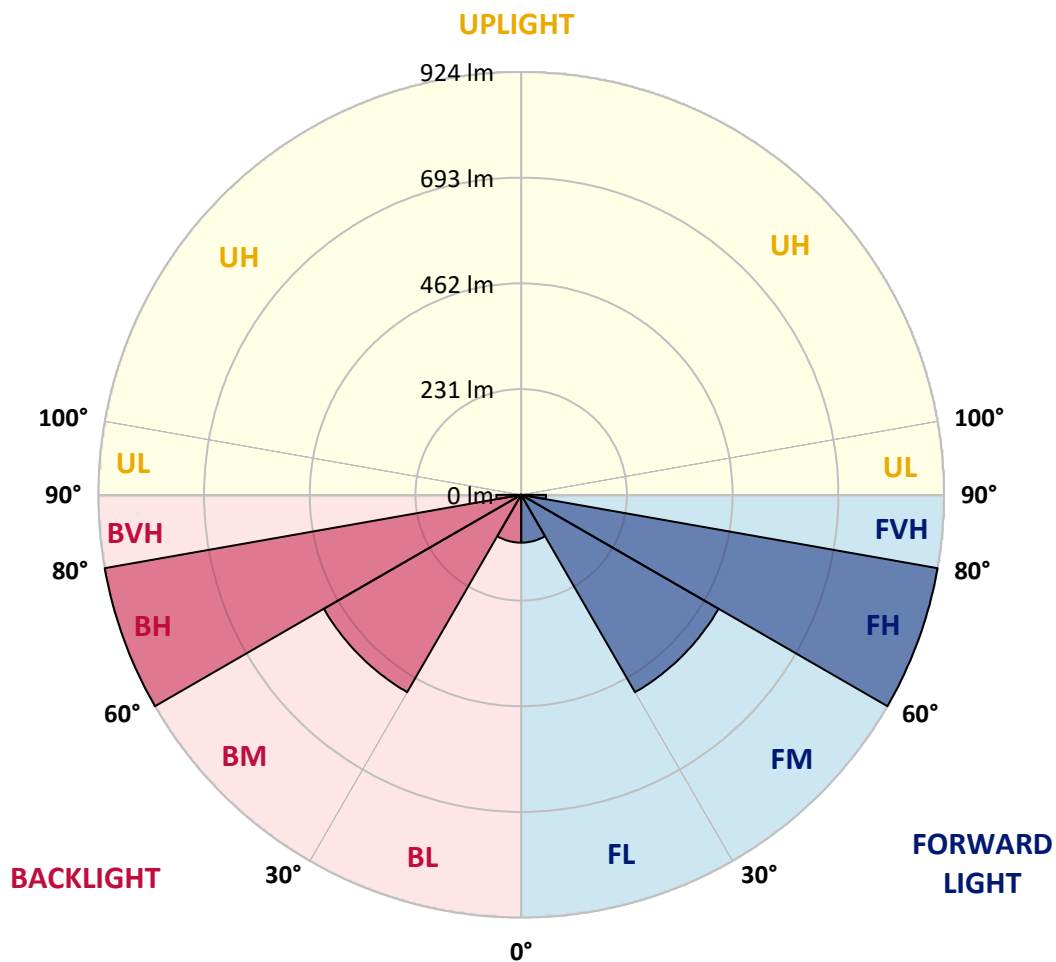
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	104.4	3.3			
FM (30°-60°)	497.8	15.8			
FH (60°-80°)	923.6	29.2			G1/1800
FVH (80°-90°)	54.2	1.7			G1/100
BL (0°-30°)	104.4	3.3	B0/110		
BM (30°-60°)	497.8	15.8	B1/1000		
BH (60°-80°)	923.6	29.2	B2/1000		G1/1800
BVH (80°-90°)	54.2	1.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5
2.5°	258.1	258.7	257.4	257.4	257.4	256.8	257.4	256.8	257.4	258.1	258.1
5°	255.6	255.6	254.4	254.4	254.4	253.8	254.4	254.4	255.0	255.6	255.6
7.5°	250.2	250.2	249.6	249.0	248.4	248.4	249.0	249.0	249.6	250.2	250.2
10°	247.2	246.6	245.4	243.6	243.0	242.4	243.6	244.8	246.6	248.4	247.8
12.5°	246.0	245.4	243.0	241.2	240.0	240.6	241.8	243.0	246.0	247.8	247.2
15°	247.2	246.0	243.0	240.0	240.6	241.8	243.0	243.0	246.6	248.4	248.4
17.5°	247.2	246.6	243.0	240.6	241.2	243.0	243.6	243.0	246.0	249.0	249.0
20°	247.8	247.8	243.0	241.2	241.8	243.6	244.2	243.6	246.0	249.6	249.6
22.5°	249.0	248.4	243.6	242.4	243.6	244.8	245.4	244.8	247.2	250.2	250.8
25°	251.4	250.2	246.0	245.4	247.8	249.6	249.6	248.4	249.6	252.6	252.6
27.5°	254.4	253.8	249.0	249.0	252.0	255.6	253.8	251.4	252.6	255.6	255.6
30°	259.9	259.3	254.4	254.4	258.7	262.9	258.7	255.6	257.4	260.5	261.1
32.5°	267.7	267.7	263.5	262.3	269.5	271.3	269.5	263.5	264.7	268.9	268.9
35°	280.9	279.7	275.5	274.9	282.1	281.5	280.9	275.5	276.7	281.5	281.5
37.5°	298.4	297.8	294.1	292.3	295.9	293.5	294.7	292.3	295.3	299.0	299.6
40°	320.6	320.0	317.0	314.6	315.8	312.2	313.4	314.6	317.6	320.0	320.6
42.5°	348.3	348.3	345.3	341.1	339.3	337.5	337.5	339.9	342.9	345.9	345.9
45°	382.6	382.6	379.0	374.7	369.3	366.3	367.5	369.9	373.5	377.2	378.4
47.5°	422.9	422.9	418.1	413.8	408.4	404.8	404.8	406.0	411.4	414.4	416.3
50°	468.0	466.2	461.4	457.2	454.1	449.3	449.9	449.3	454.1	458.4	459.6
52.5°	514.9	514.3	509.5	508.3	510.1	507.7	507.7	501.7	503.5	505.9	505.3
55°	573.2	571.4	567.2	569.6	576.9	580.5	579.3	569.6	564.2	565.4	564.8
57.5°	637.0	635.2	634.0	641.2	657.5	672.5	669.5	647.2	637.0	637.6	638.2
60°	702.0	702.0	705.6	723.6	758.5	783.2	774.2	736.9	718.8	715.2	714.0
62.5°	768.7	770.5	778.4	808.4	862.0	902.9	880.0	827.1	800.0	792.8	790.4
65°	846.3	848.1	859.6	896.9	967.8	1016.6	977.5	927.5	889.6	874.6	872.2
67.5°	958.8	960.0	969.0	1005.1	1071.9	1111.0	1070.7	1026.2	985.3	967.8	966.6
70°	1059.9	1061.1	1068.9	1116.4	1177.8	1191.6	1147.1	1090.6	1047.8	1034.0	1031.6
72.5°	1037.0	1041.2	1067.1	1141.1	1235.5	1253.6	1159.7	1074.9	1006.3	983.5	976.3
75°	869.8	876.4	917.3	1028.6	1179.0	1230.1	1085.1	929.3	827.1	783.2	771.7
77.5°	507.7	532.3	602.7	745.3	960.0	1064.1	893.9	680.3	508.3	436.1	412.0
80°	139.0	152.2	203.3	342.9	602.1	745.3	570.2	312.2	168.4	126.3	117.3
82.5°	43.9	58.3	74.0	98.6	236.4	392.8	211.7	92.0	72.2	59.6	52.9
85°	23.5	25.3	41.5	48.1	71.0	110.1	65.6	48.1	43.3	31.9	30.1
87.5°	12.0	12.6	23.5	23.5	31.3	25.9	28.3	25.9	24.7	15.6	13.8
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)