

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: P234669

Luminaire Tested: **ARCH-AF16-30-D-U-5WQ-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234669
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-AF16-30-D-U-5WQ-8027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 560mA LIGHT ENGINE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2995 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 32
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

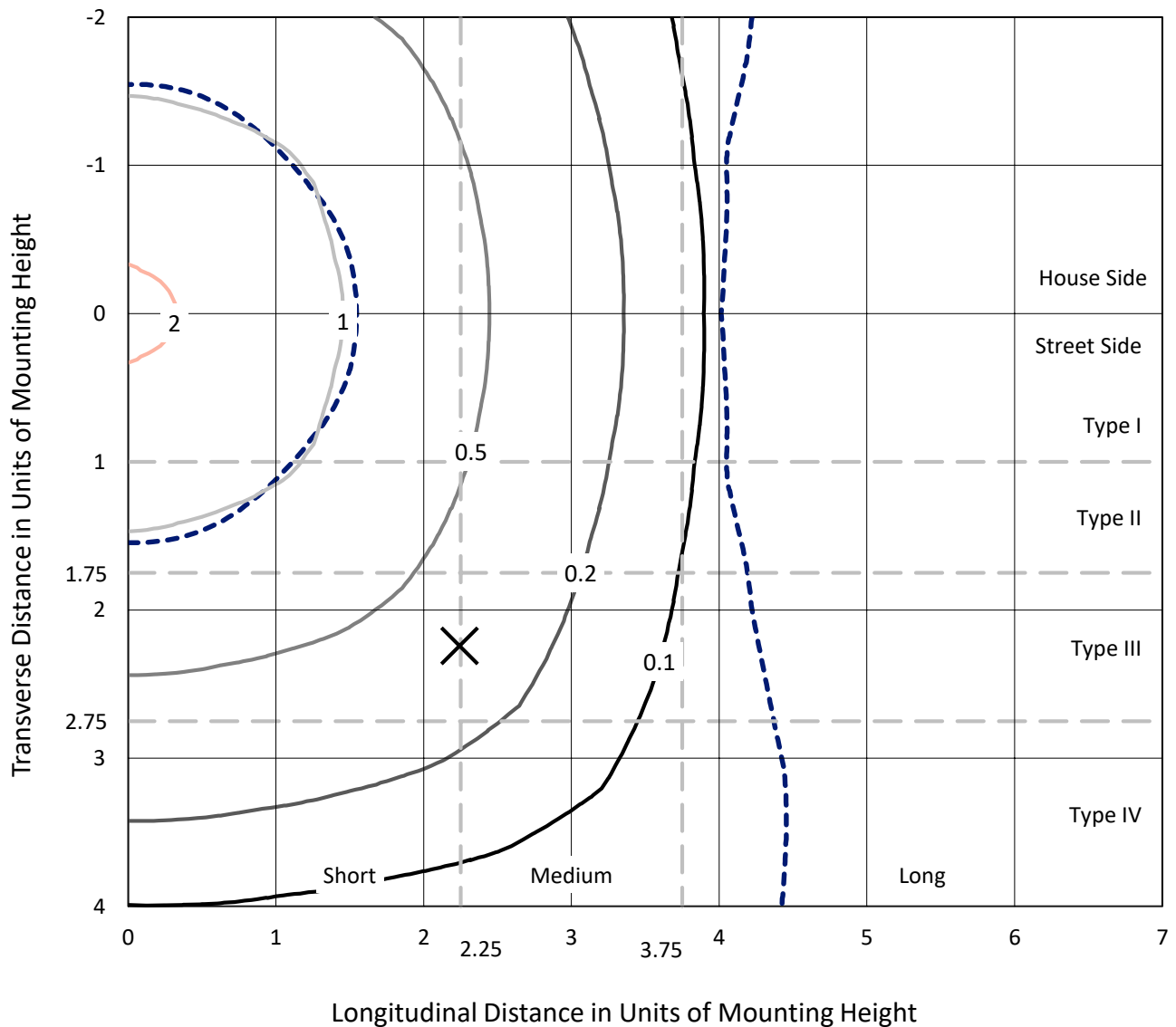


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

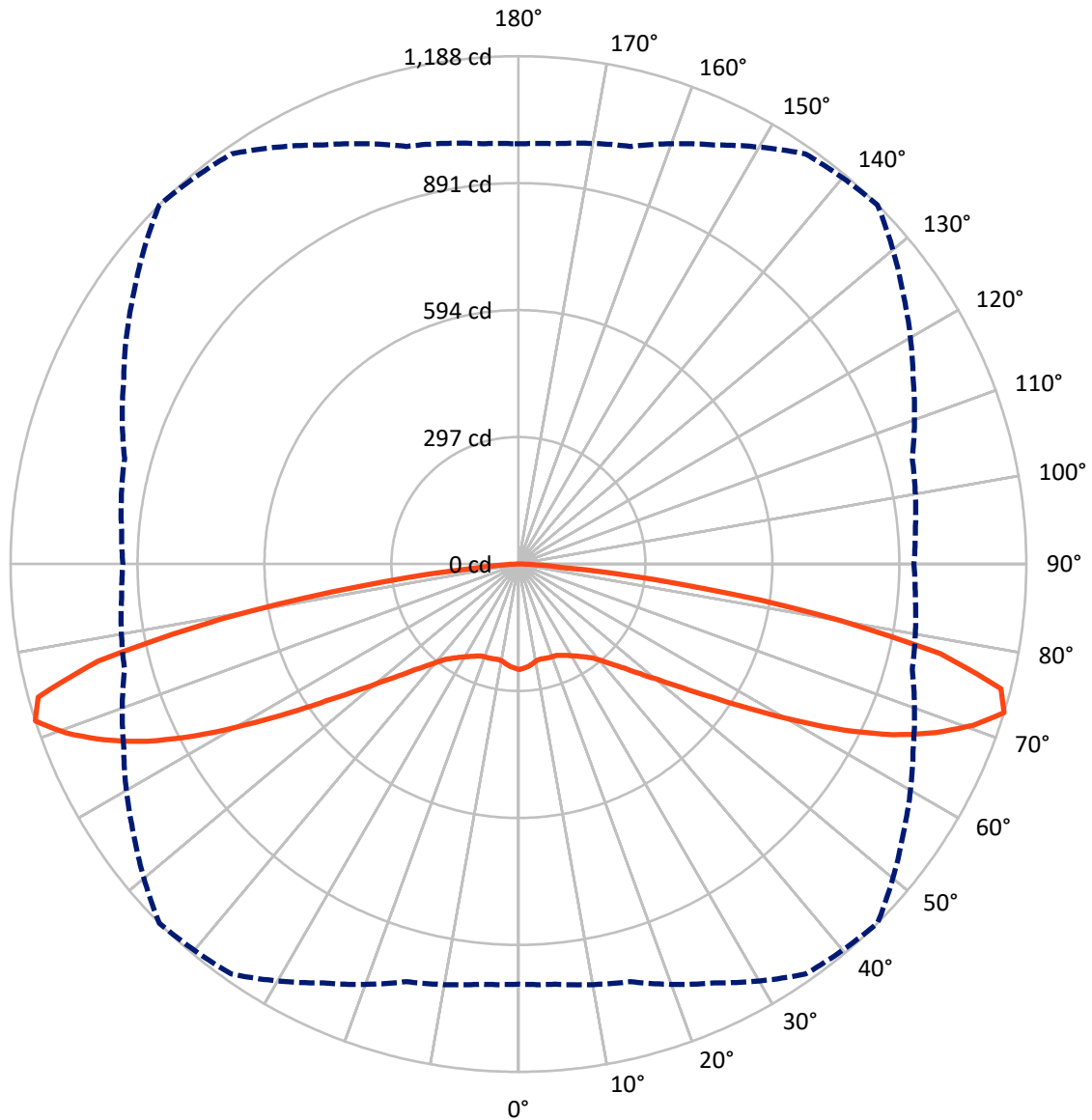


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Non-Cutoff

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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	1497.5	0.0	1497.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1497.5	0.0	1497.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2995.0	0.0	2995.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.7	0.8
10°-20°	65.5	2.2
20°-30°	109.7	3.7
30°-40°	168.5	5.6
40°-50°	279.0	9.3
50°-60°	496.0	16.6
60°-70°	867.8	29.0
70°-80°	882.9	29.5
80°-90°	102.8	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°	2995.0	100.0
0°-180°	2995.0	100.0



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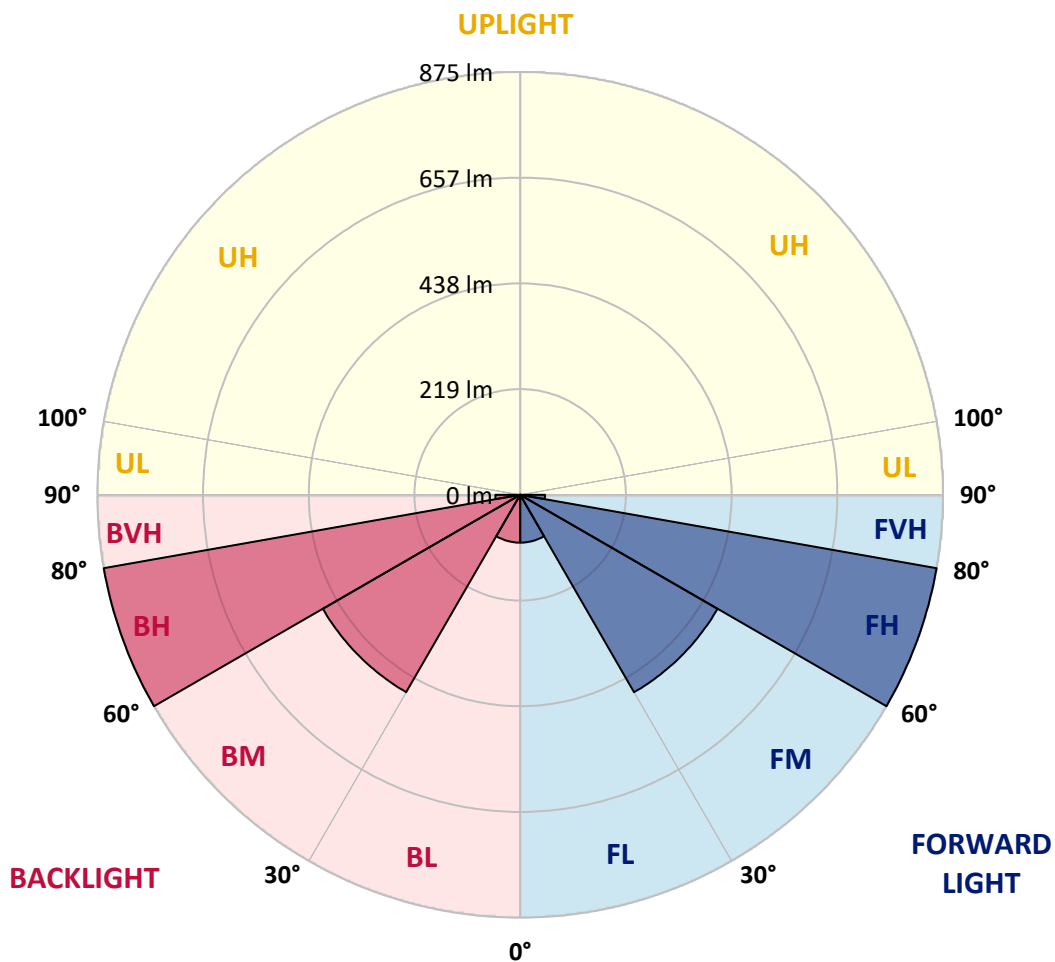
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	99.0	3.3			
FM	(30°-60°)	471.8	15.8			
FH	(60°-80°)	875.4	29.2			G1/1800
FVH	(80°-90°)	51.4	1.7			G1/100
BL	(0°-30°)	99.0	3.3	B0/110		
BM	(30°-60°)	471.8	15.8	B1/1000		
BH	(60°-80°)	875.4	29.2	B2/1000		G1/1800
BVH	(80°-90°)	51.4	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°	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9
2.5°	244.6	245.1	244.0	244.0	244.0	243.4	244.0	243.4	244.0	244.6	244.6
5°	242.3	242.3	241.2	241.2	241.2	240.6	241.2	241.2	241.7	242.3	242.3
7.5°	237.2	237.2	236.6	236.0	235.5	235.5	236.0	236.0	236.6	237.2	237.2
10°	234.3	233.7	232.6	230.9	230.3	229.8	230.9	232.0	233.7	235.5	234.9
12.5°	233.2	232.6	230.3	228.6	227.5	228.0	229.2	230.3	233.2	234.9	234.3
15°	234.3	233.2	230.3	227.5	228.0	229.2	230.3	230.3	233.7	235.5	235.5
17.5°	234.3	233.7	230.3	228.0	228.6	230.3	230.9	230.3	233.2	236.0	236.0
20°	234.9	234.9	230.3	228.6	229.2	230.9	231.5	230.9	233.2	236.6	236.6
22.5°	236.0	235.5	230.9	229.8	230.9	232.0	232.6	232.0	234.3	237.2	237.7
25°	238.3	237.2	233.2	232.6	234.9	236.6	236.6	235.5	236.6	239.4	239.4
27.5°	241.2	240.6	236.0	236.0	238.9	242.3	240.6	238.3	239.4	242.3	242.3
30°	246.3	245.7	241.2	241.2	245.1	249.1	245.1	242.3	244.0	246.9	247.4
32.5°	253.7	253.7	249.7	248.6	255.4	257.1	255.4	249.7	250.8	254.8	254.8
35°	266.2	265.1	261.1	260.5	267.4	266.8	266.2	261.1	262.3	266.8	266.8
37.5°	282.8	282.2	278.8	277.1	280.5	278.2	279.4	277.1	279.9	283.3	283.9
40°	303.9	303.3	300.4	298.2	299.3	295.9	297.0	298.2	301.0	303.3	303.9
42.5°	330.1	330.1	327.2	323.3	321.5	319.8	319.8	322.1	325.0	327.8	327.8
45°	362.6	362.6	359.2	355.2	350.0	347.2	348.3	350.6	354.0	357.5	358.6
47.5°	400.8	400.8	396.2	392.2	387.1	383.7	383.7	384.8	390.0	392.8	394.5
50°	443.5	441.8	437.3	433.3	430.4	425.9	426.4	425.9	430.4	434.4	435.6
52.5°	488.0	487.4	482.9	481.7	483.5	481.2	481.2	475.5	477.2	479.5	478.9
55°	543.3	541.6	537.6	539.9	546.7	550.2	549.0	539.9	534.8	535.9	535.3
57.5°	603.7	602.0	600.9	607.7	623.1	637.4	634.5	613.4	603.7	604.3	604.9
60°	665.3	665.3	668.7	685.8	718.9	742.3	733.7	698.4	681.3	677.9	676.7
62.5°	728.6	730.3	737.7	766.2	817.0	855.7	834.1	783.9	758.2	751.4	749.1
65°	802.1	803.9	814.7	850.0	917.3	963.5	926.4	879.1	843.2	828.9	826.7
67.5°	908.8	909.9	918.4	952.7	1015.9	1053.0	1014.8	972.6	933.8	917.3	916.2
70°	1004.5	1005.7	1013.1	1058.1	1116.3	1129.4	1087.2	1033.6	993.1	980.0	977.7
72.5°	982.9	986.9	1011.4	1081.5	1171.0	1188.1	1099.2	1018.8	953.8	932.1	925.3
75°	824.4	830.7	869.4	974.9	1117.4	1165.9	1028.5	880.8	783.9	742.3	731.5
77.5°	481.2	504.5	571.3	706.4	909.9	1008.5	847.2	644.8	481.7	413.3	390.5
80°	131.7	144.2	192.7	325.0	570.7	706.4	540.5	295.9	159.6	119.7	111.2
82.5°	41.6	55.3	70.1	93.5	224.1	372.3	200.7	87.2	68.4	56.4	50.2
85°	22.2	23.9	39.3	45.6	67.3	104.3	62.1	45.6	41.0	30.2	28.5
87.5°	11.4	12.0	22.2	22.2	29.6	24.5	26.8	24.5	23.4	14.8	13.1
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)