

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: P214517

Luminaire Tested: **ARCH-AF24-20-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214517
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-AF24-20-D-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2971.7 lumens
Efficiency: N/A
Efficacy: 141.5 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): 21
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

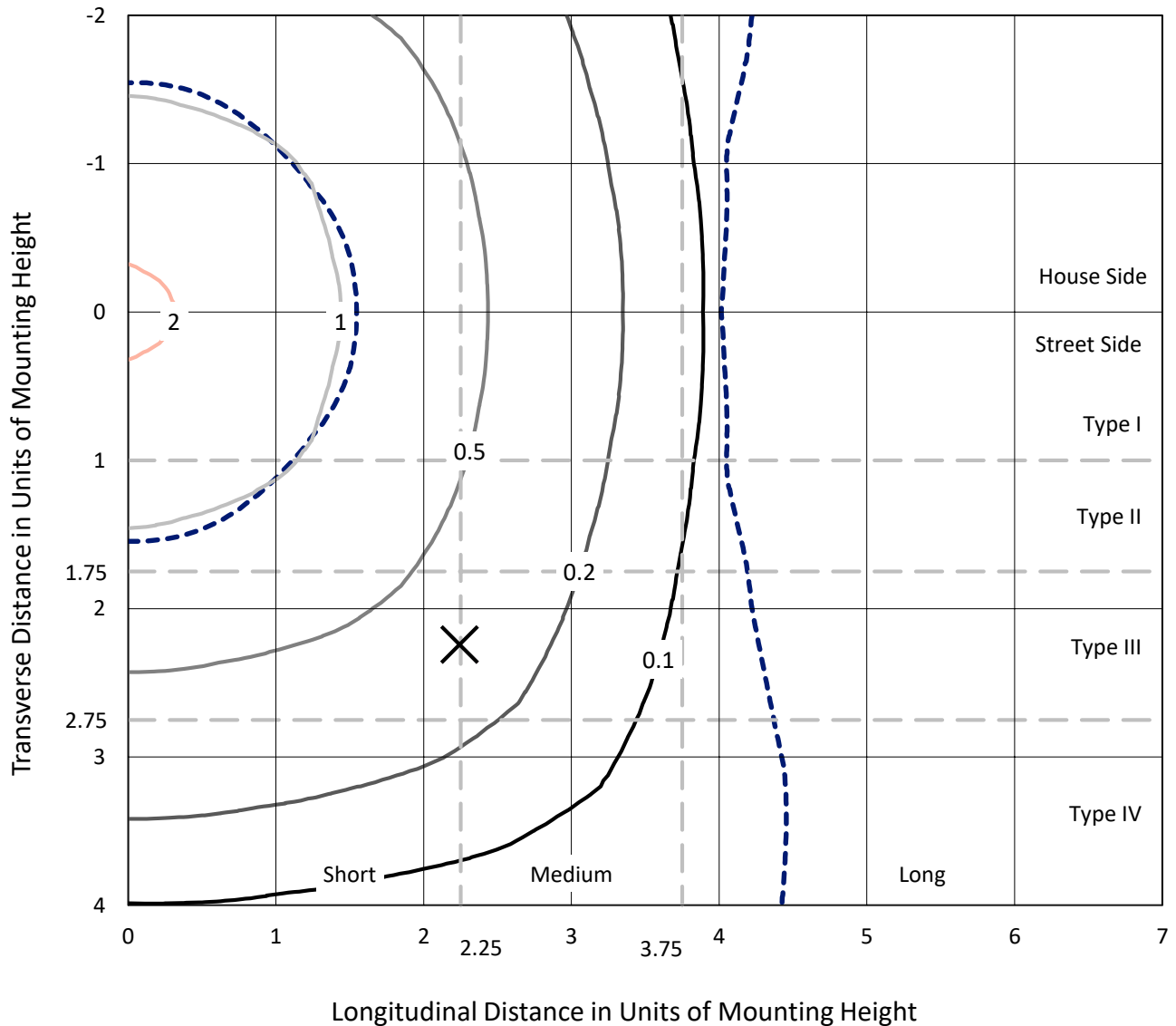


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

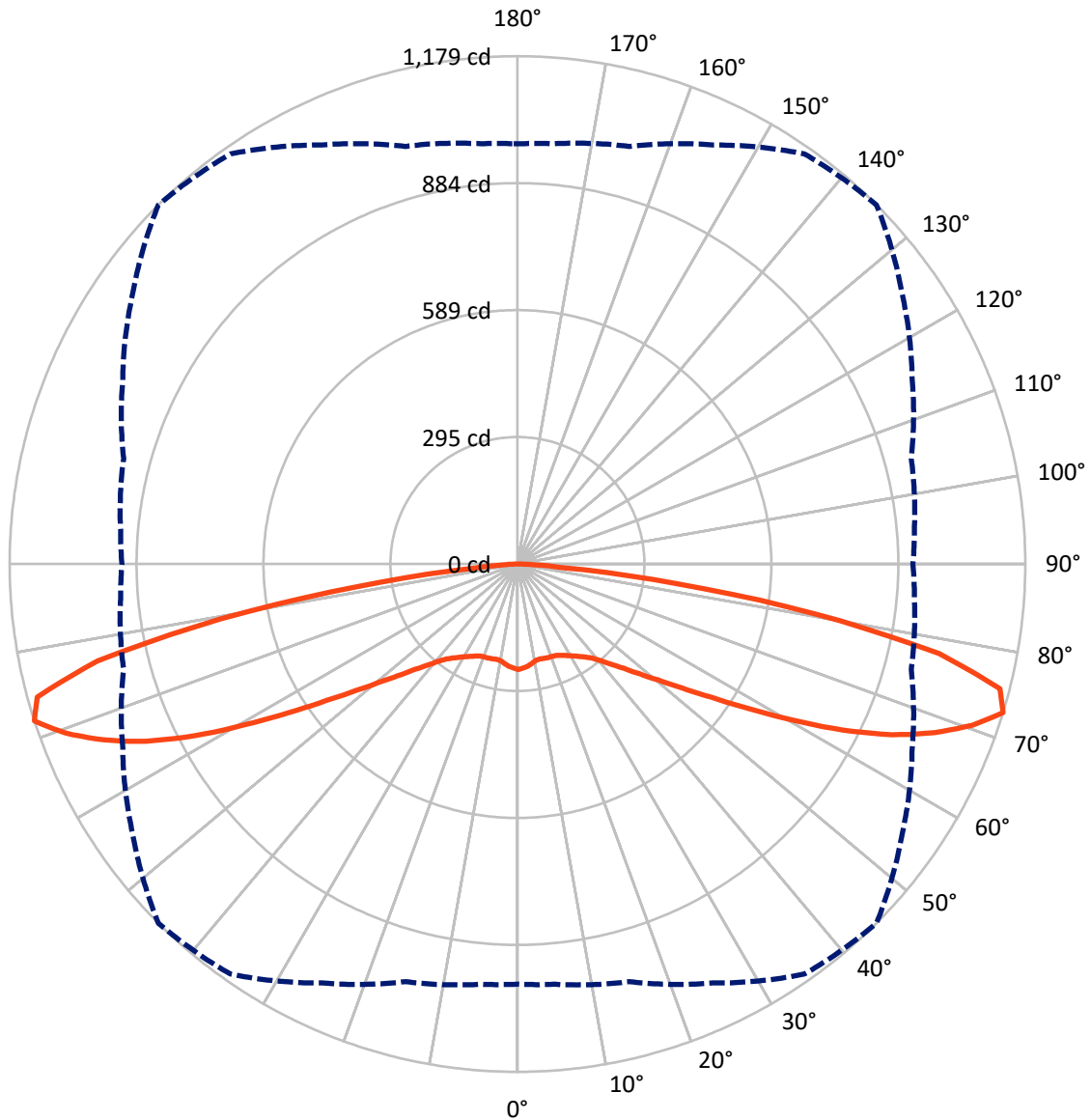


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Non-Cutoff

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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	1485.8	0.0	1485.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1485.8	0.0	1485.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	2971.7	0.0	2971.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.5	0.8
10°-20°	65.0	2.2
20°-30°	108.8	3.7
30°-40°	167.2	5.6
40°-50°	276.8	9.3
50°-60°	492.2	16.6
60°-70°	861.0	29.0
70°-80°	876.0	29.5
80°-90°	102.0	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°	2971.7	100.0
0°-180°	2971.7	100.0



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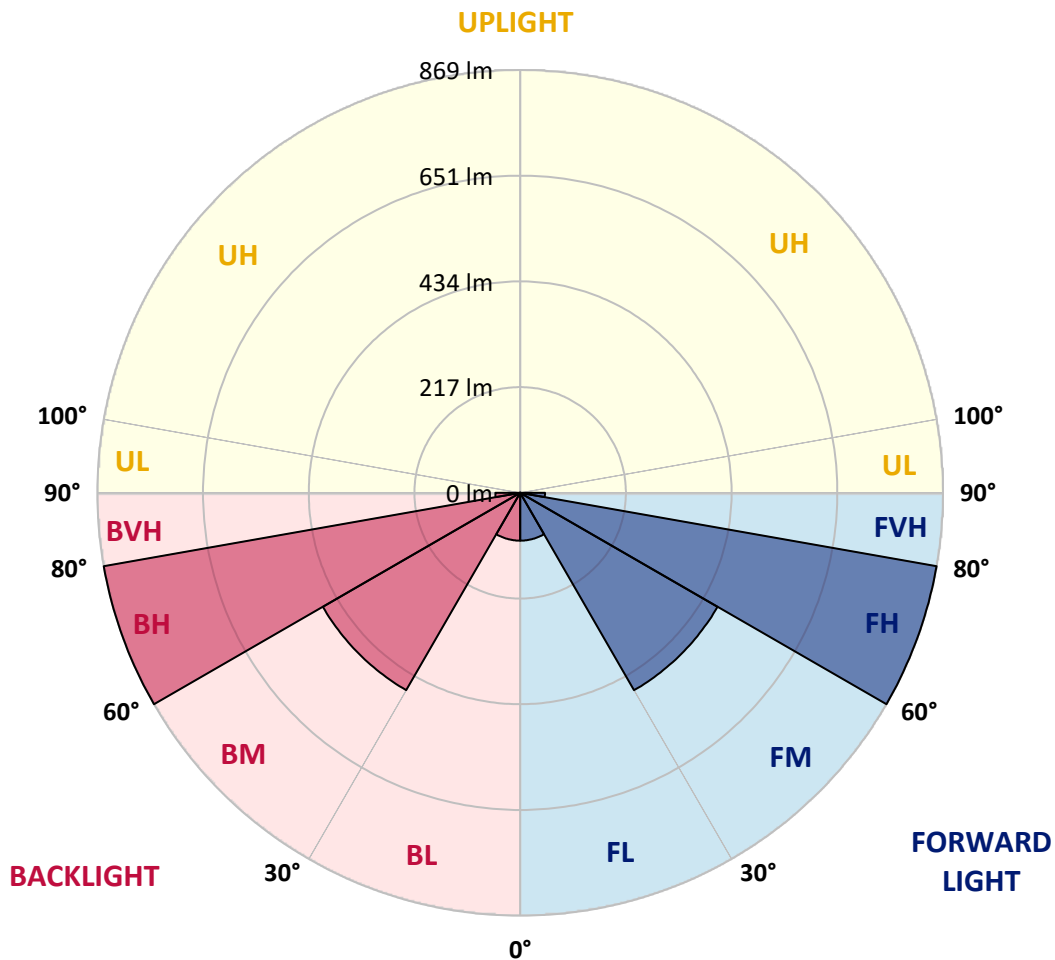
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	98.2	3.3			
FM (30°-60°)	468.1	15.8			
FH (60°-80°)	868.5	29.2			G1/1800
FVH (80°-90°)	51.0	1.7			G1/100
BL (0°-30°)	98.2	3.3	B0/110		
BM (30°-60°)	468.1	15.8	B1/1000		
BH (60°-80°)	868.5	29.2	B2/1000		G1/1800
BVH (80°-90°)	51.0	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°	244.9	244.9	244.9	244.9	244.9	244.9	244.9	244.9	244.9	244.9	244.9
2.5°	242.6	243.3	242.1	242.1	242.1	241.5	242.1	241.5	242.1	242.6	242.6
5°	240.4	240.4	239.3	239.3	239.3	238.8	239.3	239.3	239.9	240.4	240.4
7.5°	235.3	235.3	234.8	234.2	233.6	233.6	234.2	234.2	234.8	235.3	235.3
10°	232.5	231.9	230.8	229.1	228.5	228.0	229.1	230.3	231.9	233.6	233.0
12.5°	231.4	230.8	228.5	226.8	225.7	226.3	227.4	228.5	231.4	233.0	232.5
15°	232.5	231.4	228.5	225.7	226.3	227.4	228.5	228.5	231.9	233.6	233.6
17.5°	232.5	231.9	228.5	226.3	226.8	228.5	229.1	228.5	231.4	234.2	234.2
20°	233.0	233.0	228.5	226.8	227.4	229.1	229.7	229.1	231.4	234.8	234.8
22.5°	234.2	233.6	229.1	228.0	229.1	230.3	230.8	230.3	232.5	235.3	235.9
25°	236.4	235.3	231.4	230.8	233.0	234.8	234.8	233.6	234.8	237.6	237.6
27.5°	239.3	238.8	234.2	234.2	237.0	240.4	238.8	236.4	237.6	240.4	240.4
30°	244.4	243.8	239.3	239.3	243.3	247.2	243.3	240.4	242.1	244.9	245.5
32.5°	251.7	251.7	247.8	246.6	253.4	255.1	253.4	247.8	248.9	252.9	252.9
35°	264.1	263.0	259.1	258.5	265.3	264.7	264.1	259.1	260.2	264.7	264.7
37.5°	280.6	280.0	276.6	274.9	278.3	276.1	277.2	274.9	277.7	281.1	281.7
40°	301.5	301.0	298.1	295.8	297.0	293.6	294.7	295.8	298.7	301.0	301.5
42.5°	327.5	327.5	324.7	320.7	319.1	317.3	317.3	319.6	322.4	325.3	325.3
45°	359.8	359.8	356.4	352.4	347.3	344.5	345.7	347.9	351.3	354.7	355.8
47.5°	397.6	397.6	393.1	389.1	384.1	380.7	380.7	381.9	386.9	389.7	391.5
50°	440.1	438.4	433.8	429.9	427.1	422.6	423.1	422.6	427.1	431.1	432.2
52.5°	484.2	483.7	479.2	478.0	479.7	477.4	477.4	471.8	473.4	475.8	475.2
55°	539.1	537.4	533.5	535.7	542.5	545.8	544.7	535.7	530.6	531.7	531.1
57.5°	599.0	597.3	596.2	603.0	618.3	632.4	629.6	608.7	599.0	599.7	600.2
60°	660.1	660.1	663.5	680.5	713.3	736.5	728.0	692.9	676.0	672.6	671.5
62.5°	722.9	724.7	732.0	760.3	810.6	849.0	827.6	777.7	752.4	745.5	743.3
65°	795.9	797.6	808.3	843.4	910.1	955.9	919.2	872.3	836.7	822.5	820.2
67.5°	901.6	902.9	911.2	945.2	1008.0	1044.8	1006.9	965.1	926.6	910.1	909.0
70°	996.7	997.9	1005.2	1049.9	1107.5	1120.5	1078.7	1025.5	985.4	972.4	970.2
72.5°	975.2	979.2	1003.5	1073.1	1161.9	1178.8	1090.6	1010.9	946.3	924.8	918.1
75°	818.0	824.2	862.7	967.3	1108.7	1156.8	1020.5	874.0	777.7	736.5	725.8
77.5°	477.4	500.6	566.8	700.8	902.9	1000.7	840.6	639.8	478.0	410.1	387.5
80°	130.6	143.1	191.2	322.4	566.2	700.8	536.2	293.6	158.4	118.8	110.3
82.5°	41.3	54.8	69.6	92.8	222.3	369.4	199.1	86.5	67.9	56.0	49.8
85°	22.1	23.7	39.1	45.2	66.8	103.5	61.7	45.2	40.7	30.0	28.2
87.5°	11.4	11.9	22.1	22.1	29.5	24.3	26.6	24.3	23.2	14.7	13.0
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)