

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: P265679

Luminaire Tested: **ARCH-L-AF72-210-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265679
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-L-AF72-210-D-U-5WQ-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22543.6 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 211
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

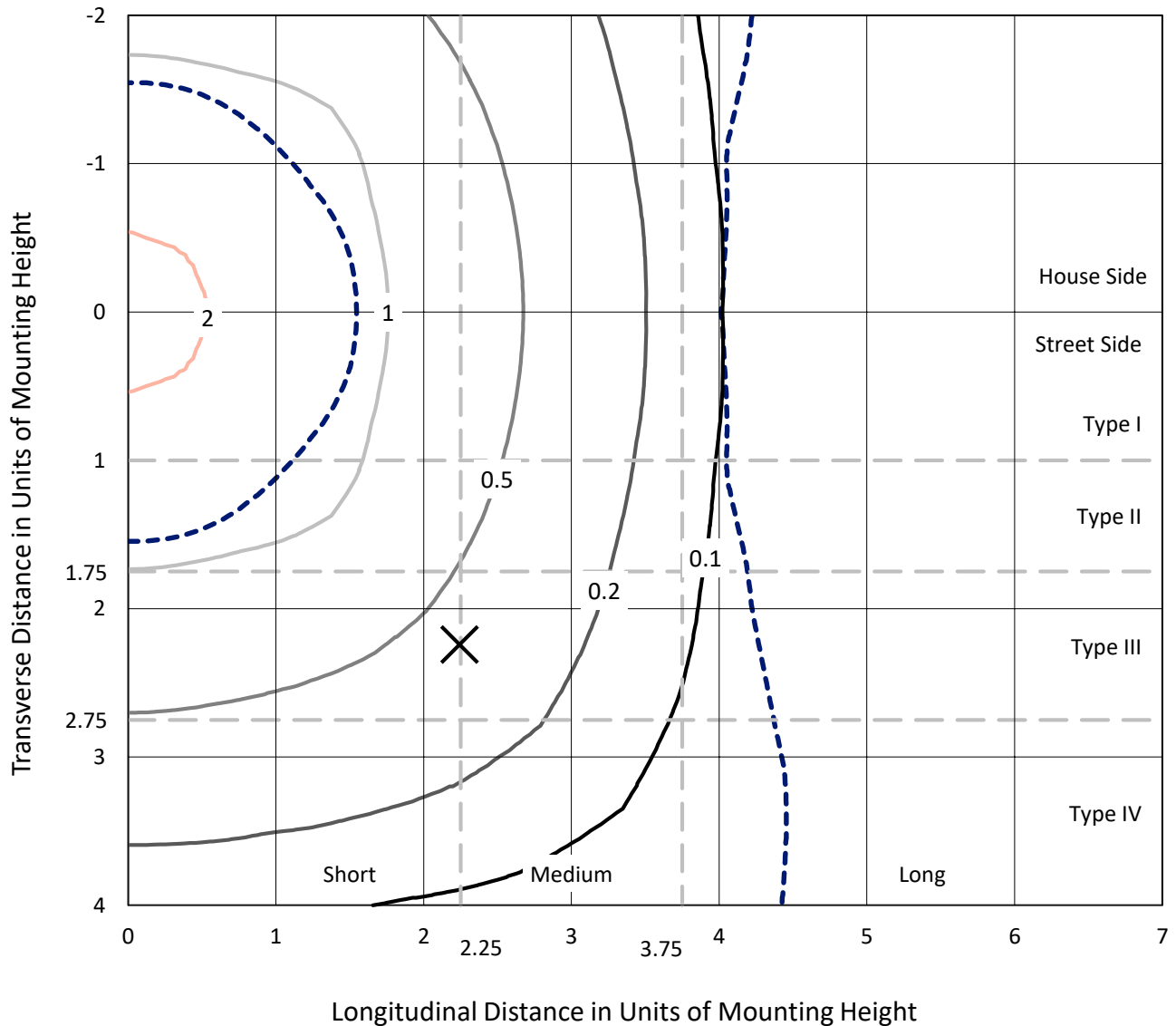


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

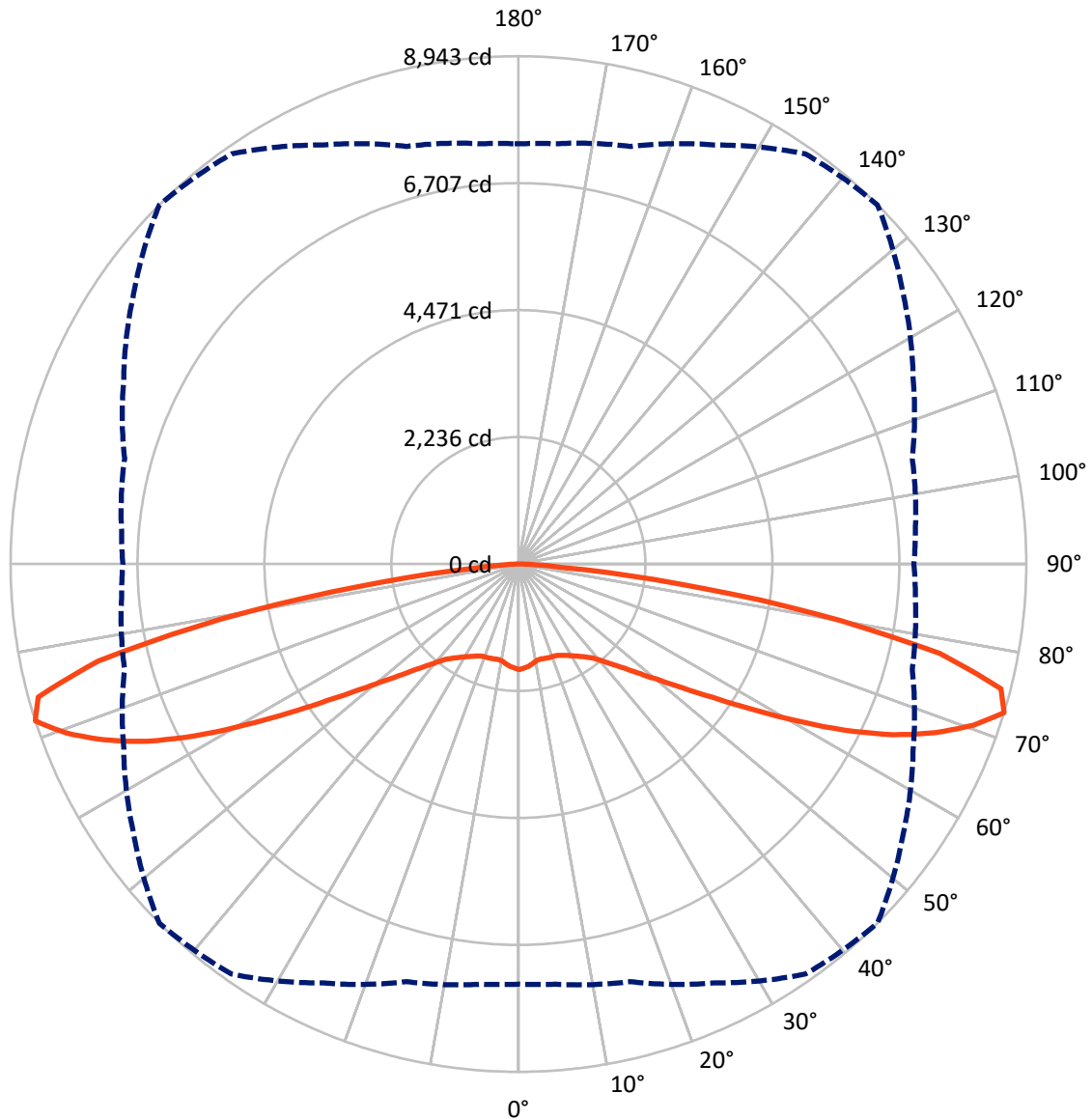


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Non-Cutoff

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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	11271.8	0.0	11271.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11271.8	0.0	11271.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	22543.6	0.0	22543.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	0.8
10°-20°	493.3	2.2
20°-30°	825.5	3.7
30°-40°	1268.4	5.6
40°-50°	2100.2	9.3
50°-60°	3733.7	16.6
60°-70°	6532.0	29.0
70°-80°	6645.8	29.5
80°-90°	773.9	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°	22543.6	100.0
0°-180°	22543.6	100.0



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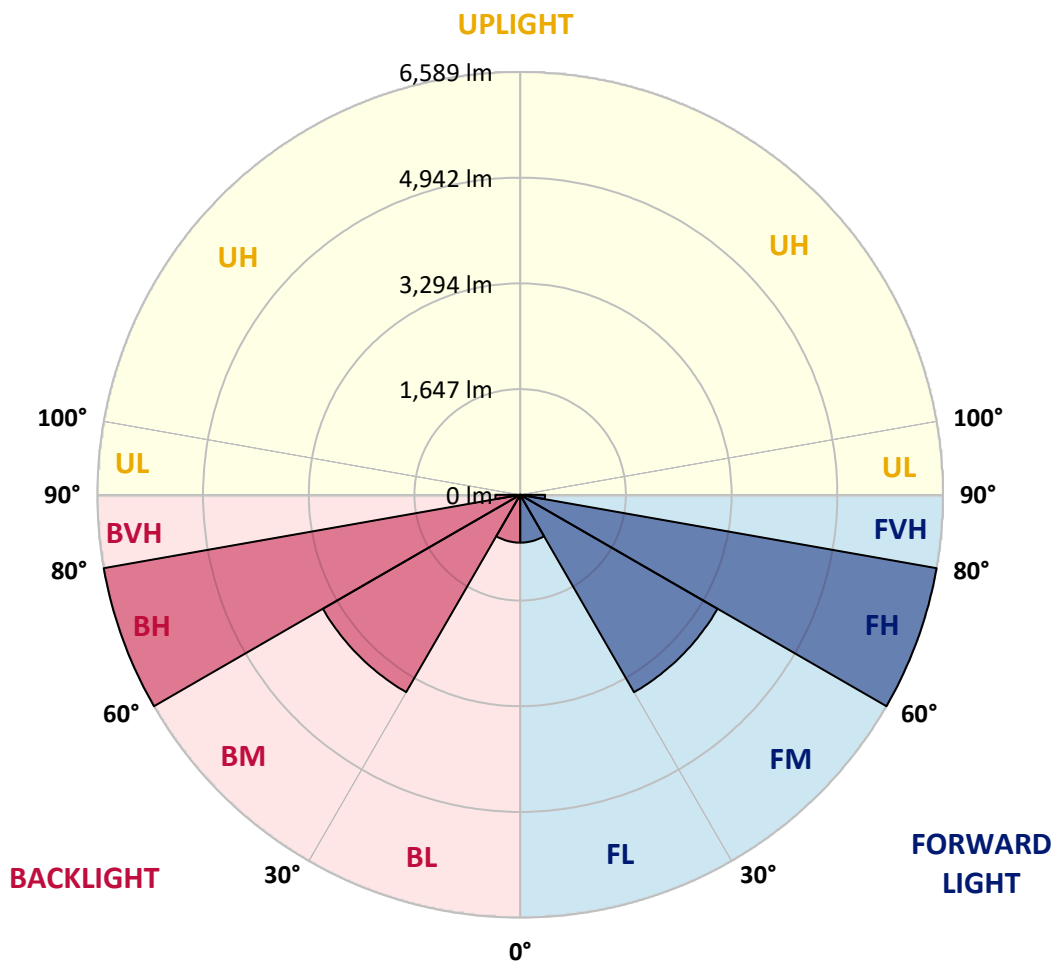
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	744.9	3.3			
FM	(30°-60°)	3551.1	15.8			
FH	(60°-80°)	6588.9	29.2			G3/7500
FVH	(80°-90°)	386.9	1.7			G3/500
BL	(0°-30°)	744.9	3.3	B2/1000		
BM	(30°-60°)	3551.1	15.8	B3/5000		
BH	(60°-80°)	6588.9	29.2	B5		G3/7500
BVH	(80°-90°)	386.9	1.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1
2.5°	1840.9	1845.3	1836.7	1836.7	1836.7	1832.4	1836.7	1832.4	1836.7	1840.9	1840.9
5°	1823.7	1823.7	1815.2	1815.2	1815.2	1811.0	1815.2	1815.2	1819.4	1823.7	1823.7
7.5°	1785.2	1785.2	1780.9	1776.6	1772.3	1772.3	1776.6	1776.6	1780.9	1785.2	1785.2
10°	1763.7	1759.4	1750.8	1738.0	1733.6	1729.3	1738.0	1746.6	1759.4	1772.3	1768.0
12.5°	1755.1	1750.8	1733.6	1720.9	1712.2	1716.5	1725.0	1733.6	1755.1	1768.0	1763.7
15°	1763.7	1755.1	1733.6	1712.2	1716.5	1725.0	1733.6	1733.6	1759.4	1772.3	1772.3
17.5°	1763.7	1759.4	1733.6	1716.5	1720.9	1733.6	1738.0	1733.6	1755.1	1776.6	1776.6
20°	1768.0	1768.0	1733.6	1720.9	1725.0	1738.0	1742.3	1738.0	1755.1	1780.9	1780.9
22.5°	1776.6	1772.3	1738.0	1729.3	1738.0	1746.6	1750.8	1746.6	1763.7	1785.2	1789.5
25°	1793.7	1785.2	1755.1	1750.8	1768.0	1780.9	1780.9	1772.3	1780.9	1802.3	1802.3
27.5°	1815.2	1811.0	1776.6	1776.6	1798.0	1823.7	1811.0	1793.7	1802.3	1823.7	1823.7
30°	1853.8	1849.5	1815.2	1815.2	1845.3	1875.3	1845.3	1823.7	1836.7	1858.1	1862.5
32.5°	1909.5	1909.5	1879.6	1871.0	1922.6	1935.4	1922.6	1879.6	1888.1	1918.2	1918.2
35°	2003.9	1995.4	1965.4	1961.1	2012.7	2008.3	2003.9	1965.4	1973.9	2008.3	2008.3
37.5°	2128.4	2124.2	2098.4	2085.5	2111.2	2094.2	2102.8	2085.5	2107.1	2132.8	2137.1
40°	2287.3	2283.0	2261.6	2244.3	2252.9	2227.2	2235.7	2244.3	2265.7	2283.0	2287.3
42.5°	2484.6	2484.6	2463.2	2433.1	2420.3	2407.4	2407.4	2424.5	2446.1	2467.5	2467.5
45°	2729.2	2729.2	2703.4	2673.4	2634.9	2613.3	2622.0	2639.1	2664.9	2690.7	2699.1
47.5°	3016.8	3016.8	2982.5	2952.4	2913.7	2888.1	2888.1	2896.7	2935.2	2956.7	2969.5
50°	3338.6	3325.7	3291.4	3261.3	3239.8	3205.6	3209.9	3205.6	3239.8	3269.9	3278.5
52.5°	3673.3	3669.0	3634.7	3626.1	3639.0	3621.8	3621.8	3578.8	3591.9	3609.0	3604.7
55°	4089.5	4076.7	4046.7	4063.8	4115.3	4141.0	4132.6	4063.8	4025.2	4033.7	4029.4
57.5°	4544.4	4531.6	4523.0	4574.4	4690.4	4797.7	4776.2	4617.4	4544.4	4548.7	4553.0
60°	5008.0	5008.0	5033.7	5162.4	5411.3	5587.3	5522.9	5256.8	5128.1	5102.4	5093.7
62.5°	5484.2	5497.1	5553.0	5767.5	6149.3	6441.1	6278.2	5900.4	5707.4	5655.9	5638.8
65°	6037.8	6050.8	6132.2	6398.3	6904.6	7252.2	6973.4	6617.2	6346.7	6239.4	6222.3
67.5°	6840.2	6848.9	6913.3	7170.7	7647.0	7925.9	7638.5	7320.8	7029.1	6904.6	6896.1
70°	7561.3	7569.7	7625.6	7964.6	8402.2	8501.0	8183.5	7780.1	7475.3	7376.7	7359.5
72.5°	7398.1	7428.2	7612.7	8140.5	8814.3	8942.9	8273.6	7668.6	7179.3	7016.2	6964.6
75°	6205.2	6252.5	6544.2	7338.1	8410.9	8775.6	7741.5	6630.0	5900.4	5587.3	5505.7
77.5°	3621.8	3797.8	4299.8	5316.9	6848.9	7591.2	6376.8	4853.5	3626.1	3111.2	2939.6
80°	991.3	1085.7	1450.5	2446.1	4295.5	5316.9	4068.2	2227.2	1201.6	901.2	836.9
82.5°	313.2	416.3	527.8	703.7	1686.5	2802.3	1510.5	656.7	515.0	424.9	377.6
85°	167.4	180.2	296.1	343.3	506.4	785.3	467.7	343.3	308.9	227.5	214.5
87.5°	85.8	90.1	167.4	167.4	223.1	184.5	201.7	184.5	176.0	111.6	98.8
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)