

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: P265652

Luminaire Tested: **ARCH-L-AF72-180-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265652
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-AF72-180-D-U-5WQ-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20160.6 lumens
Efficiency: N/A
Efficacy: 111.4 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): 181
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

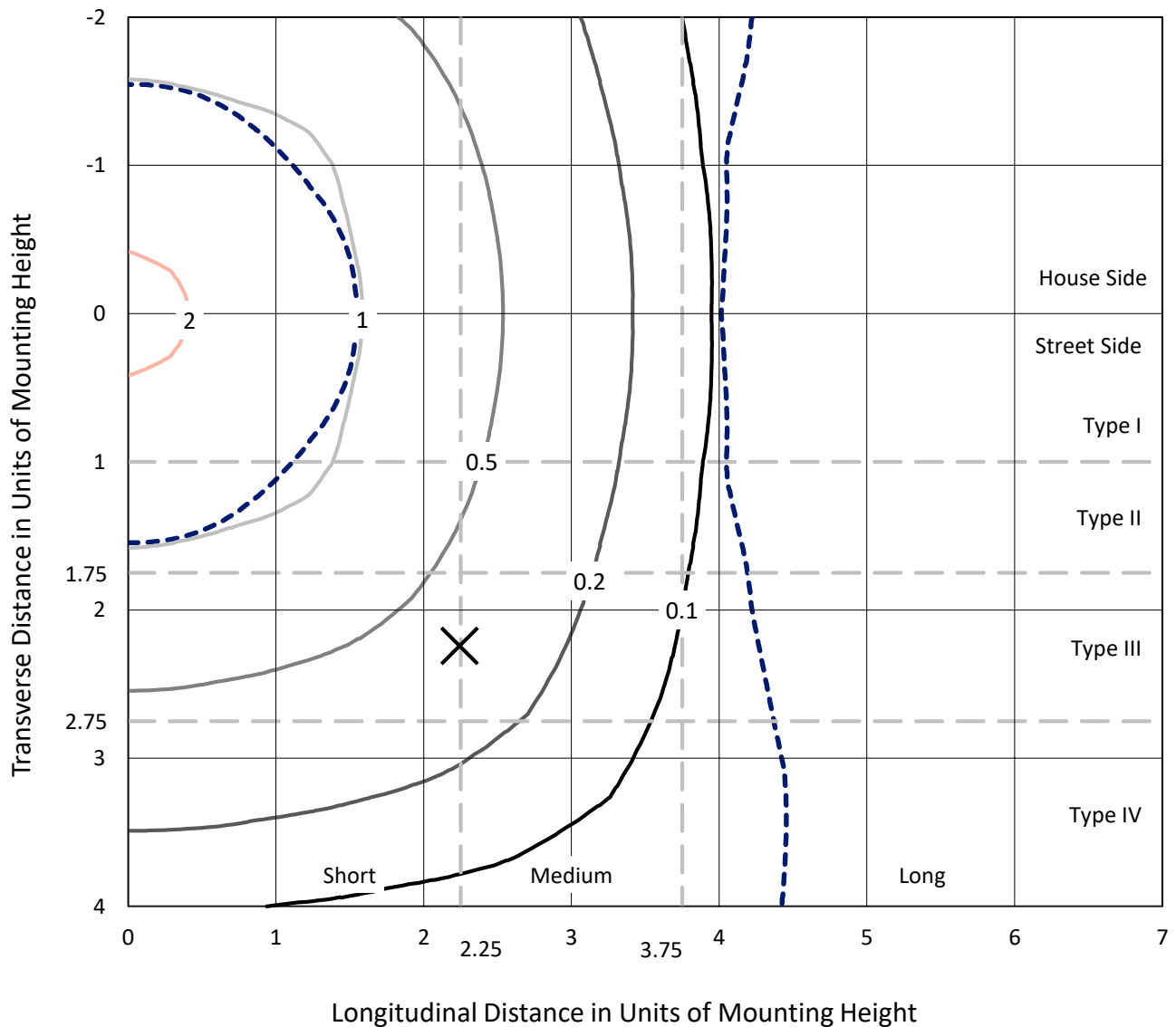


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

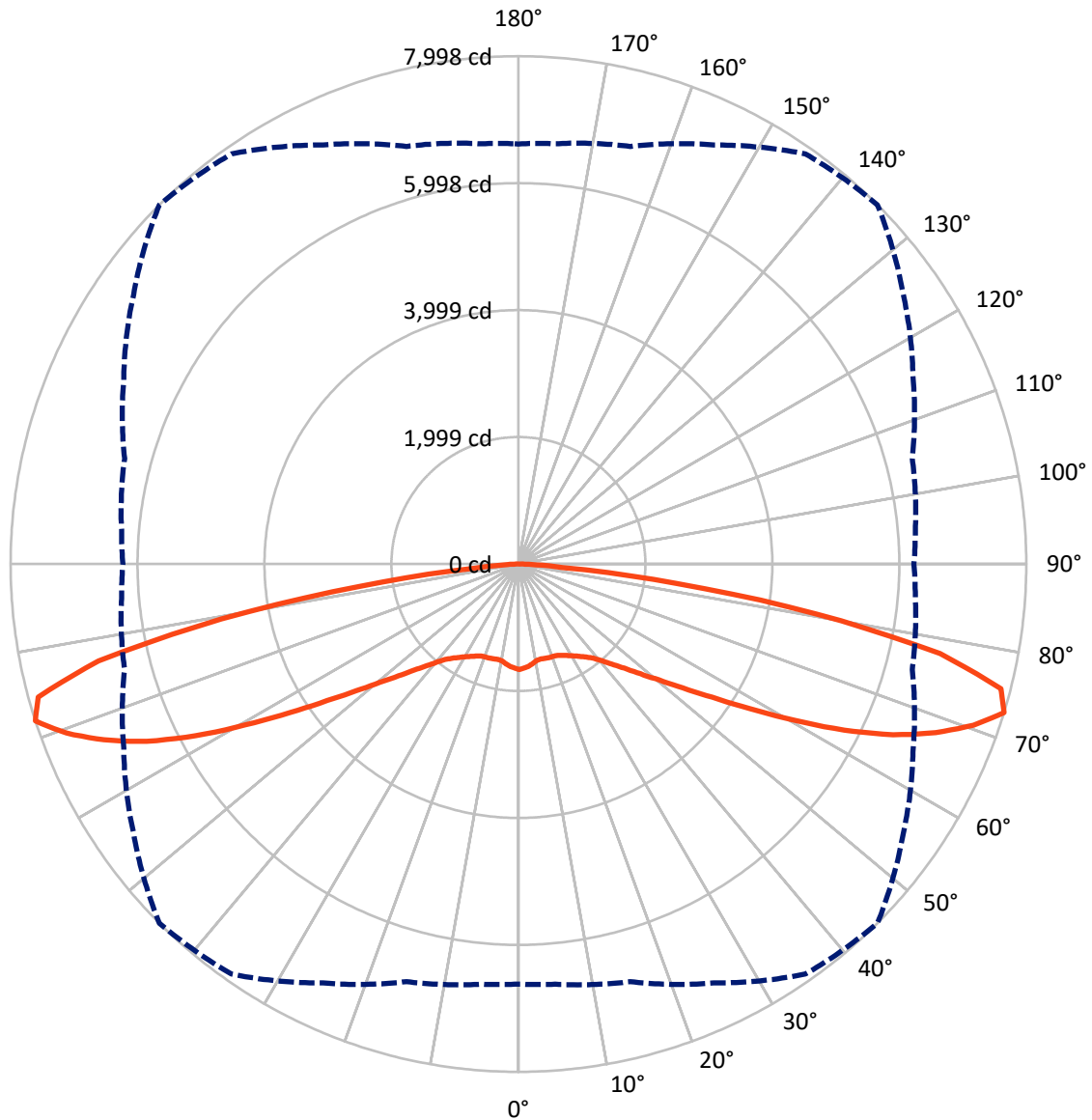


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Non-Cutoff

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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	10080.3	0.0	10080.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10080.3	0.0	10080.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	20160.6	0.0	20160.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	0.8
10°-20°	441.2	2.2
20°-30°	738.2	3.7
30°-40°	1134.3	5.6
40°-50°	1878.2	9.3
50°-60°	3339.0	16.6
60°-70°	5841.5	29.0
70°-80°	5943.3	29.5
80°-90°	692.1	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°	20160.6	100.0
0°-180°	20160.6	100.0



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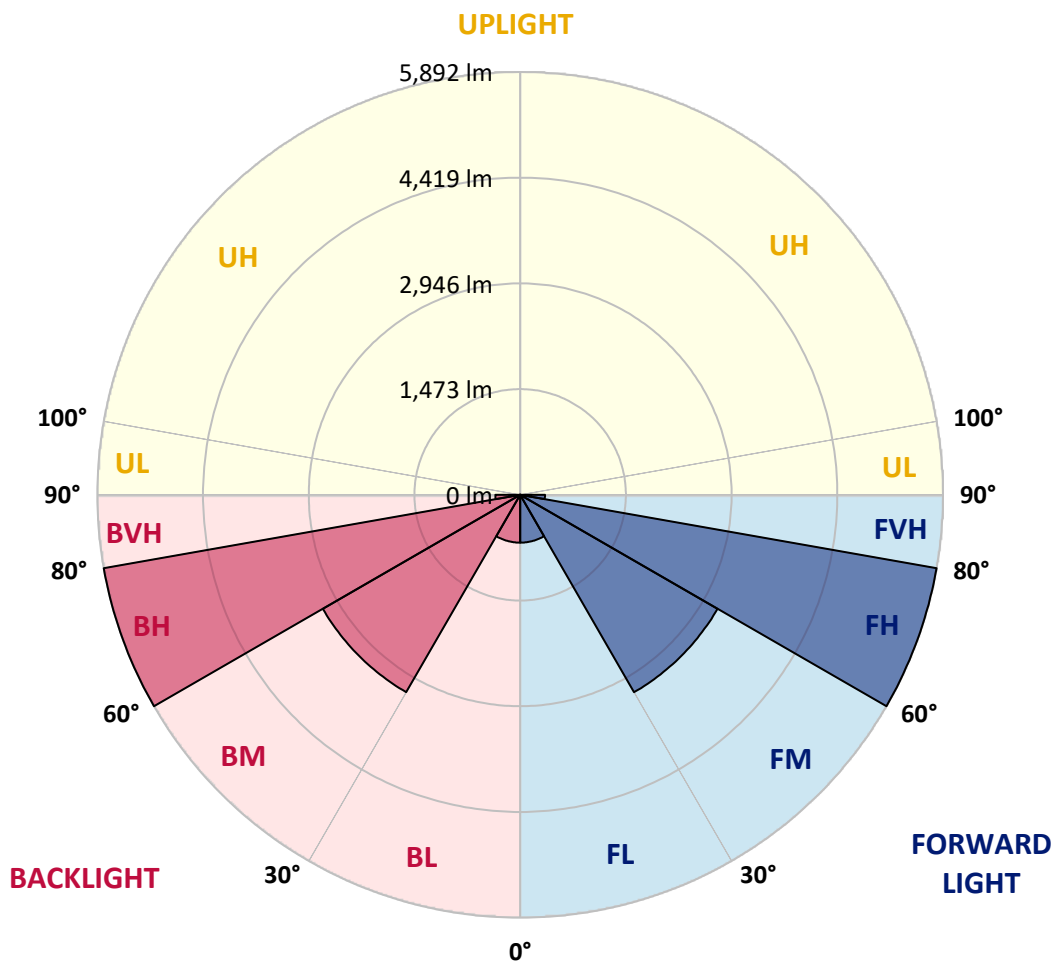
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	666.2	3.3			
FM	(30°-60°)	3175.7	15.8			
FH	(60°-80°)	5892.4	29.2			G3/7500
FVH	(80°-90°)	346.0	1.7			G3/500
BL	(0°-30°)	666.2	3.3	B2/1000		
BM	(30°-60°)	3175.7	15.8	B3/5000		
BH	(60°-80°)	5892.4	29.2	B5		G3/7500
BVH	(80°-90°)	346.0	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°	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8
2.5°	1646.4	1650.1	1642.6	1642.6	1642.6	1638.7	1642.6	1638.7	1642.6	1646.4	1646.4
5°	1631.1	1631.1	1623.3	1623.3	1623.3	1619.5	1623.3	1623.3	1627.2	1631.1	1631.1
7.5°	1596.5	1596.5	1592.7	1588.8	1585.0	1585.0	1588.8	1588.8	1592.7	1596.5	1596.5
10°	1577.2	1573.4	1565.7	1554.2	1550.5	1546.6	1554.2	1562.0	1573.4	1585.0	1581.0
12.5°	1569.6	1565.7	1550.5	1538.8	1531.3	1535.1	1542.7	1550.5	1569.6	1581.0	1577.2
15°	1577.2	1569.6	1550.5	1531.3	1535.1	1542.7	1550.5	1550.5	1573.4	1585.0	1585.0
17.5°	1577.2	1573.4	1550.5	1535.1	1538.8	1550.5	1554.2	1550.5	1569.6	1588.8	1588.8
20°	1581.0	1581.0	1550.5	1538.8	1542.7	1554.2	1558.1	1554.2	1569.6	1592.7	1592.7
22.5°	1588.8	1585.0	1554.2	1546.6	1554.2	1562.0	1565.7	1562.0	1577.2	1596.5	1600.3
25°	1604.2	1596.5	1569.6	1565.7	1581.0	1592.7	1592.7	1585.0	1592.7	1611.7	1611.7
27.5°	1623.3	1619.5	1588.8	1588.8	1608.0	1631.1	1619.5	1604.2	1611.7	1631.1	1631.1
30°	1657.8	1654.0	1623.3	1623.3	1650.1	1677.0	1650.1	1631.1	1642.6	1661.8	1665.5
32.5°	1707.8	1707.8	1680.9	1673.3	1719.3	1730.8	1719.3	1680.9	1688.5	1715.5	1715.5
35°	1792.2	1784.6	1757.7	1753.9	1799.8	1796.0	1792.2	1757.7	1765.3	1796.0	1796.0
37.5°	1903.5	1899.6	1876.6	1865.2	1888.1	1872.7	1880.4	1865.2	1884.3	1907.3	1911.1
40°	2045.5	2041.7	2022.4	2007.2	2014.8	1991.7	1999.4	2007.2	2026.2	2041.7	2045.5
42.5°	2222.0	2222.0	2202.9	2176.0	2164.5	2152.9	2152.9	2168.2	2187.5	2206.6	2206.6
45°	2440.8	2440.8	2417.7	2390.8	2356.3	2337.1	2344.8	2360.1	2383.2	2406.2	2413.8
47.5°	2697.9	2697.9	2667.2	2640.3	2605.8	2582.7	2582.7	2590.4	2624.9	2644.2	2655.7
50°	2985.6	2974.2	2943.4	2916.5	2897.5	2866.8	2870.5	2866.8	2897.5	2924.3	2932.0
52.5°	3285.0	3281.1	3250.4	3242.8	3254.3	3239.0	3239.0	3200.7	3212.1	3227.5	3223.6
55°	3657.3	3645.9	3618.9	3634.3	3680.3	3703.4	3695.6	3634.3	3599.7	3607.5	3603.6
57.5°	4064.1	4052.6	4044.9	4090.9	4194.5	4290.5	4271.4	4129.2	4064.1	4068.0	4071.7
60°	4478.5	4478.5	4501.5	4616.7	4839.3	4996.6	4939.1	4701.1	4585.9	4563.0	4555.2
62.5°	4904.6	4916.1	4965.9	5157.8	5499.3	5760.3	5614.4	5276.7	5104.1	5058.0	5042.6
65°	5399.6	5411.1	5484.1	5721.9	6174.8	6485.7	6236.2	5917.7	5675.9	5579.9	5564.6
67.5°	6117.2	6125.0	6182.5	6412.7	6838.6	7088.2	6831.0	6547.0	6286.1	6174.8	6167.1
70°	6761.9	6769.5	6819.6	7122.8	7514.1	7602.4	7318.4	6957.6	6685.1	6597.0	6581.6
72.5°	6616.0	6643.0	6808.0	7280.0	7882.5	7997.7	7399.0	6857.9	6420.4	6274.5	6228.5
75°	5549.2	5591.5	5852.4	6562.4	7521.8	7848.0	6923.1	5929.2	5276.7	4996.6	4923.7
77.5°	3239.0	3396.3	3845.4	4754.9	6125.0	6788.9	5702.7	4340.4	3242.8	2782.3	2628.8
80°	886.4	970.9	1297.2	2187.5	3841.5	4754.9	3638.0	1991.7	1074.6	805.9	748.4
82.5°	280.1	372.3	472.0	629.4	1508.3	2506.0	1350.8	587.1	460.6	380.0	337.8
85°	149.7	161.2	264.8	307.0	452.8	702.2	418.3	307.0	276.3	203.3	191.9
87.5°	76.7	80.6	149.7	149.7	199.6	165.0	180.4	165.0	157.4	99.8	88.3
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)