

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: P265643

Luminaire Tested: **ARCH-L-AF72-170-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265643
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-AF72-170-D-U-5WQ-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19689.6 lumens
Efficiency: N/A
Efficacy: 113.8 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): 173
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

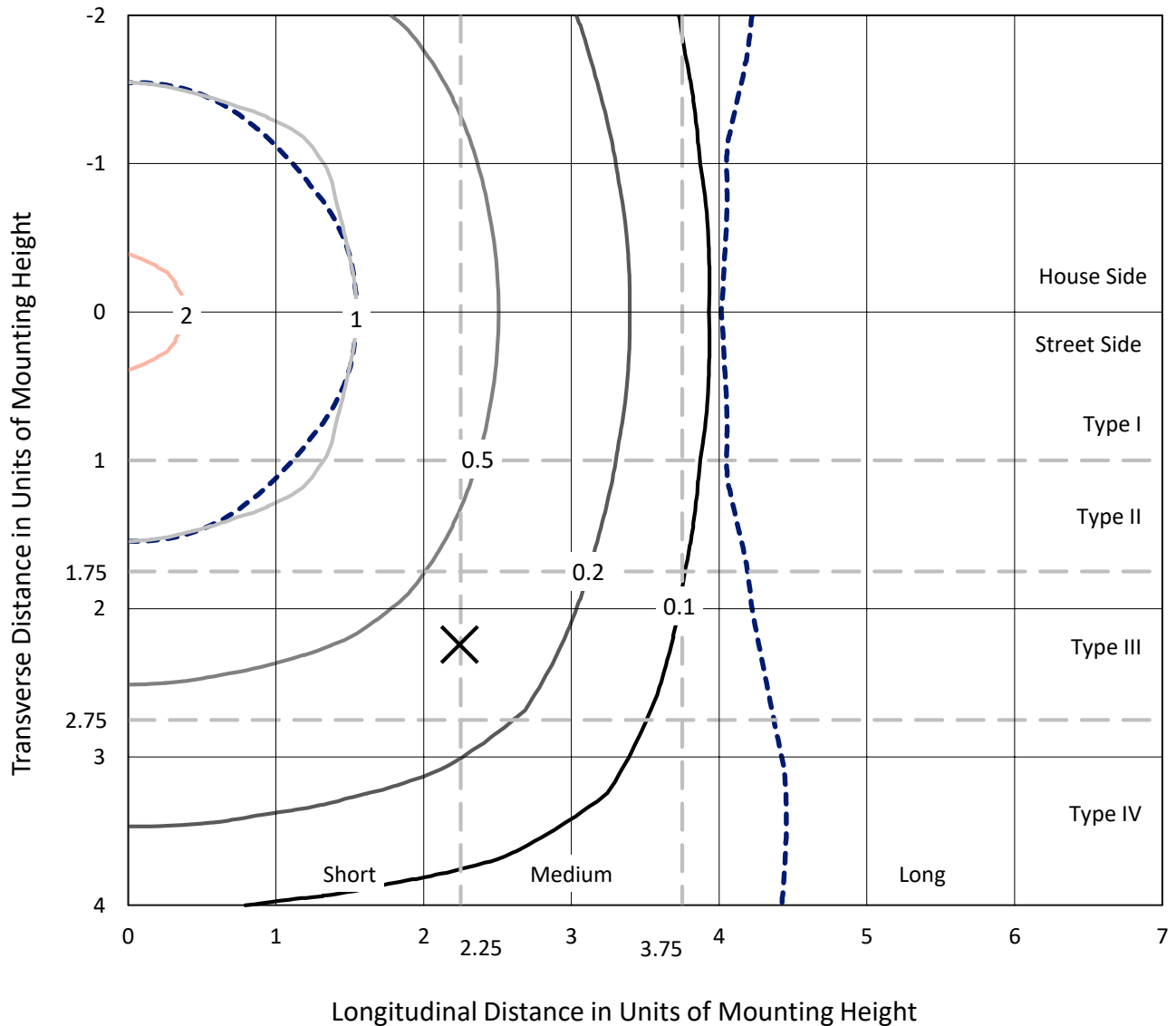


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

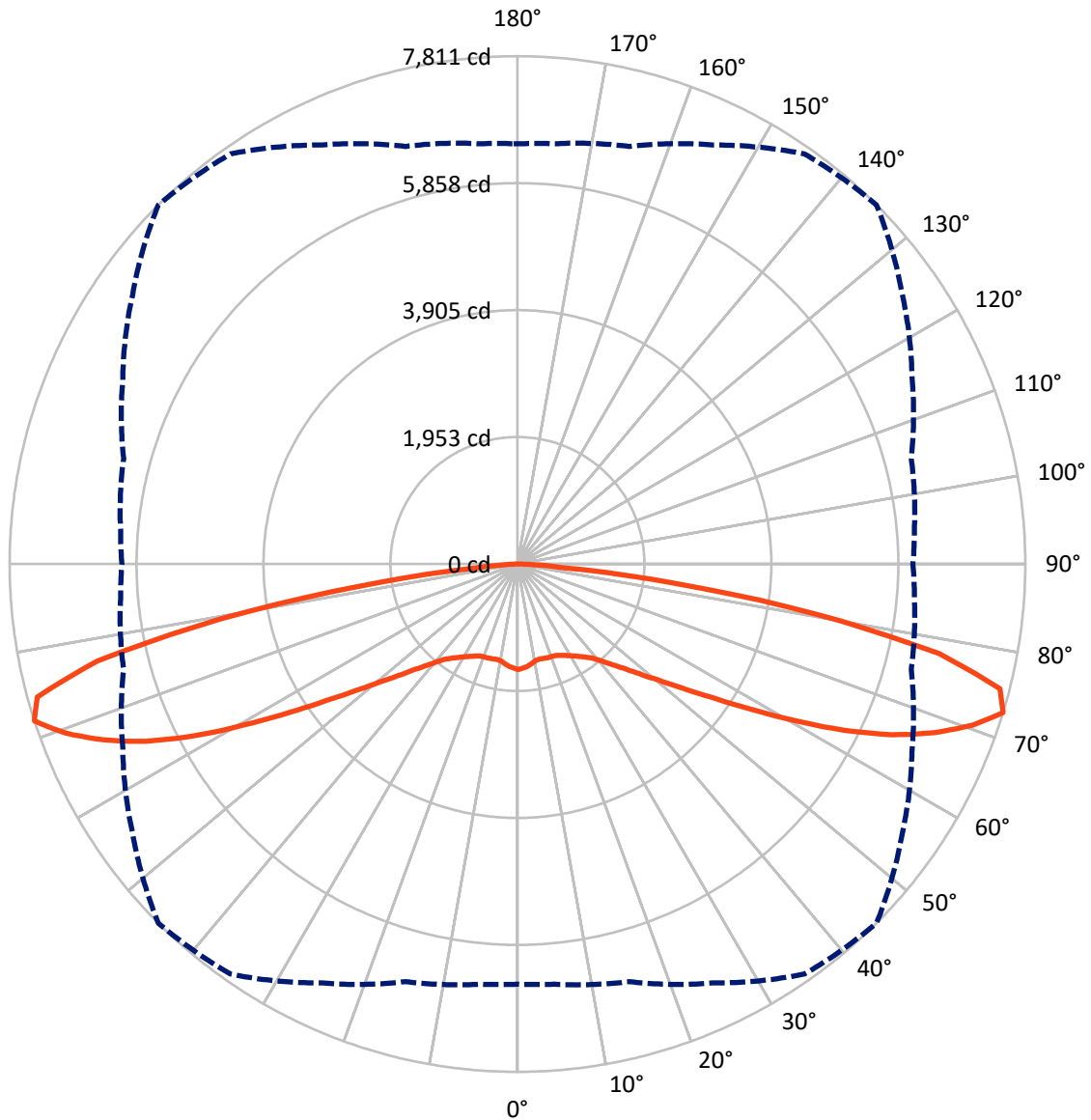


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Non-Cutoff

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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	9844.8	0.0	9844.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9844.8	0.0	9844.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	19689.6	0.0	19689.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	0.8
10°-20°	430.9	2.2
20°-30°	721.0	3.7
30°-40°	1107.8	5.6
40°-50°	1834.3	9.3
50°-60°	3261.0	16.6
60°-70°	5705.0	29.0
70°-80°	5804.4	29.5
80°-90°	675.9	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°	19689.6	100.0
0°-180°	19689.6	100.0

Coefficient of Utilization



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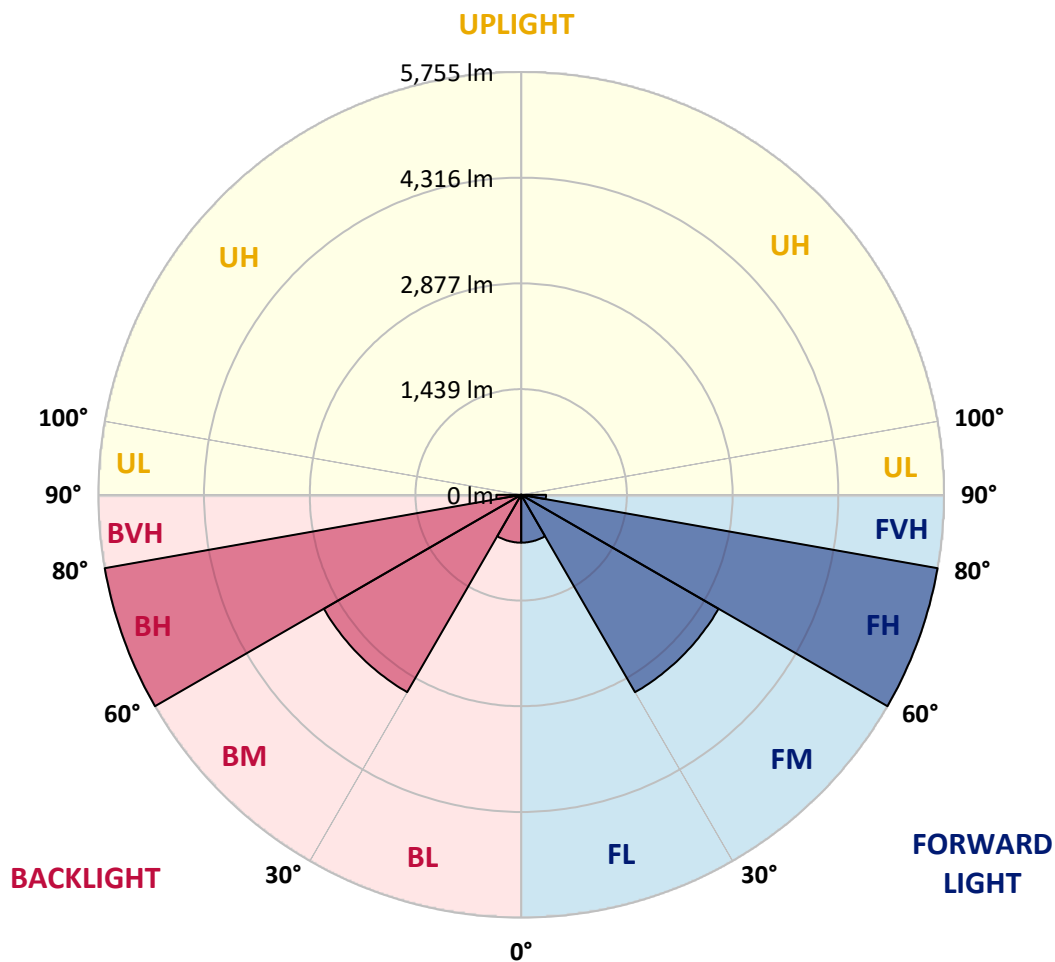
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	650.6	3.3			
FM	(30°-60°)	3101.5	15.8			
FH	(60°-80°)	5754.7	29.2			G3/7500
FVH	(80°-90°)	337.9	1.7			G3/500
BL	(0°-30°)	650.6	3.3	B2/1000		
BM	(30°-60°)	3101.5	15.8	B3/5000		
BH	(60°-80°)	5754.7	29.2	B5		G3/7500
BVH	(80°-90°)	337.9	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°	1622.9	1622.9	1622.9	1622.9	1622.9	1622.9	1622.9	1622.9	1622.9	1622.9	1622.9
2.5°	1607.8	1611.6	1604.2	1604.2	1604.2	1600.4	1604.2	1600.4	1604.2	1607.8	1607.8
5°	1592.9	1592.9	1585.4	1585.4	1585.4	1581.6	1585.4	1585.4	1589.1	1592.9	1592.9
7.5°	1559.2	1559.2	1555.4	1551.6	1547.9	1547.9	1551.6	1551.6	1555.4	1559.2	1559.2
10°	1540.5	1536.7	1529.2	1518.0	1514.3	1510.4	1518.0	1525.4	1536.7	1547.9	1544.1
12.5°	1532.9	1529.2	1514.3	1503.0	1495.5	1499.2	1506.6	1514.3	1532.9	1544.1	1540.5
15°	1540.5	1532.9	1514.3	1495.5	1499.2	1506.6	1514.3	1514.3	1536.7	1547.9	1547.9
17.5°	1540.5	1536.7	1514.3	1499.2	1503.0	1514.3	1518.0	1514.3	1532.9	1551.6	1551.6
20°	1544.1	1544.1	1514.3	1503.0	1506.6	1518.0	1521.6	1518.0	1532.9	1555.4	1555.4
22.5°	1551.6	1547.9	1518.0	1510.4	1518.0	1525.4	1529.2	1525.4	1540.5	1559.2	1563.0
25°	1566.6	1559.2	1532.9	1529.2	1544.1	1555.4	1555.4	1547.9	1555.4	1574.1	1574.1
27.5°	1585.4	1581.6	1551.6	1551.6	1570.3	1592.9	1581.6	1566.6	1574.1	1592.9	1592.9
30°	1619.1	1615.4	1585.4	1585.4	1611.6	1637.9	1611.6	1592.9	1604.2	1622.9	1626.7
32.5°	1667.9	1667.9	1641.7	1634.0	1679.1	1690.3	1679.1	1641.7	1649.1	1675.3	1675.3
35°	1750.3	1742.8	1716.7	1712.8	1757.9	1754.0	1750.3	1716.7	1724.0	1754.0	1754.0
37.5°	1859.0	1855.3	1832.7	1821.6	1844.0	1828.9	1836.6	1821.6	1840.3	1862.7	1866.5
40°	1997.7	1993.9	1975.2	1960.2	1967.6	1945.2	1952.6	1960.2	1979.0	1993.9	1997.7
42.5°	2170.0	2170.0	2151.4	2125.1	2113.8	2102.7	2102.7	2117.7	2136.3	2155.0	2155.0
45°	2383.7	2383.7	2361.3	2335.0	2301.3	2282.6	2290.0	2305.1	2327.5	2350.0	2357.5
47.5°	2634.8	2634.8	2604.8	2578.7	2544.9	2522.4	2522.4	2529.8	2563.7	2582.4	2593.5
50°	2915.9	2904.7	2874.7	2848.4	2829.8	2799.7	2803.5	2799.7	2829.8	2855.9	2863.4
52.5°	3208.2	3204.6	3174.5	3167.1	3178.3	3163.3	3163.3	3125.8	3137.1	3152.1	3148.3
55°	3571.8	3560.6	3534.3	3549.4	3594.3	3616.8	3609.3	3549.4	3515.5	3523.2	3519.3
57.5°	3969.2	3957.8	3950.3	3995.3	4096.5	4190.2	4171.5	4032.9	3969.2	3972.8	3976.5
60°	4373.8	4373.8	4396.3	4508.9	4726.3	4879.9	4823.7	4591.2	4478.8	4456.3	4448.9
62.5°	4789.9	4801.1	4849.9	5037.2	5370.8	5625.7	5483.3	5153.4	4984.9	4939.8	4924.9
65°	5273.4	5284.6	5355.9	5588.3	6030.5	6334.0	6090.5	5779.3	5543.3	5449.6	5434.6
67.5°	5974.3	5981.8	6038.0	6262.9	6678.9	6922.5	6671.4	6394.0	6139.1	6030.5	6023.0
70°	6603.9	6611.4	6660.2	6956.2	7338.6	7424.8	7147.4	6795.0	6529.1	6442.7	6427.8
72.5°	6461.5	6487.7	6649.0	7109.9	7698.4	7810.8	7226.1	6697.7	6270.3	6128.0	6083.0
75°	5419.6	5460.7	5715.6	6409.0	7346.0	7664.6	6761.4	5790.7	5153.4	4879.9	4808.6
77.5°	3163.3	3316.9	3755.5	4643.8	5981.8	6630.2	5569.5	4238.9	3167.1	2717.3	2567.4
80°	865.7	948.3	1266.8	2136.3	3751.7	4643.8	3553.1	1945.2	1049.4	787.0	730.9
82.5°	273.7	363.5	461.0	614.7	1473.0	2447.4	1319.3	573.5	449.7	371.1	329.8
85°	146.2	157.5	258.6	299.9	442.2	685.9	408.5	299.9	269.9	198.6	187.3
87.5°	75.0	78.7	146.2	146.2	194.9	161.2	176.2	161.2	153.7	97.5	86.1
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)