

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: P236724

Luminaire Tested: **ARCH-L-AF72-110-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236724
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-AF72-110-D-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16231.2 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

Input Watts (W): 113
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

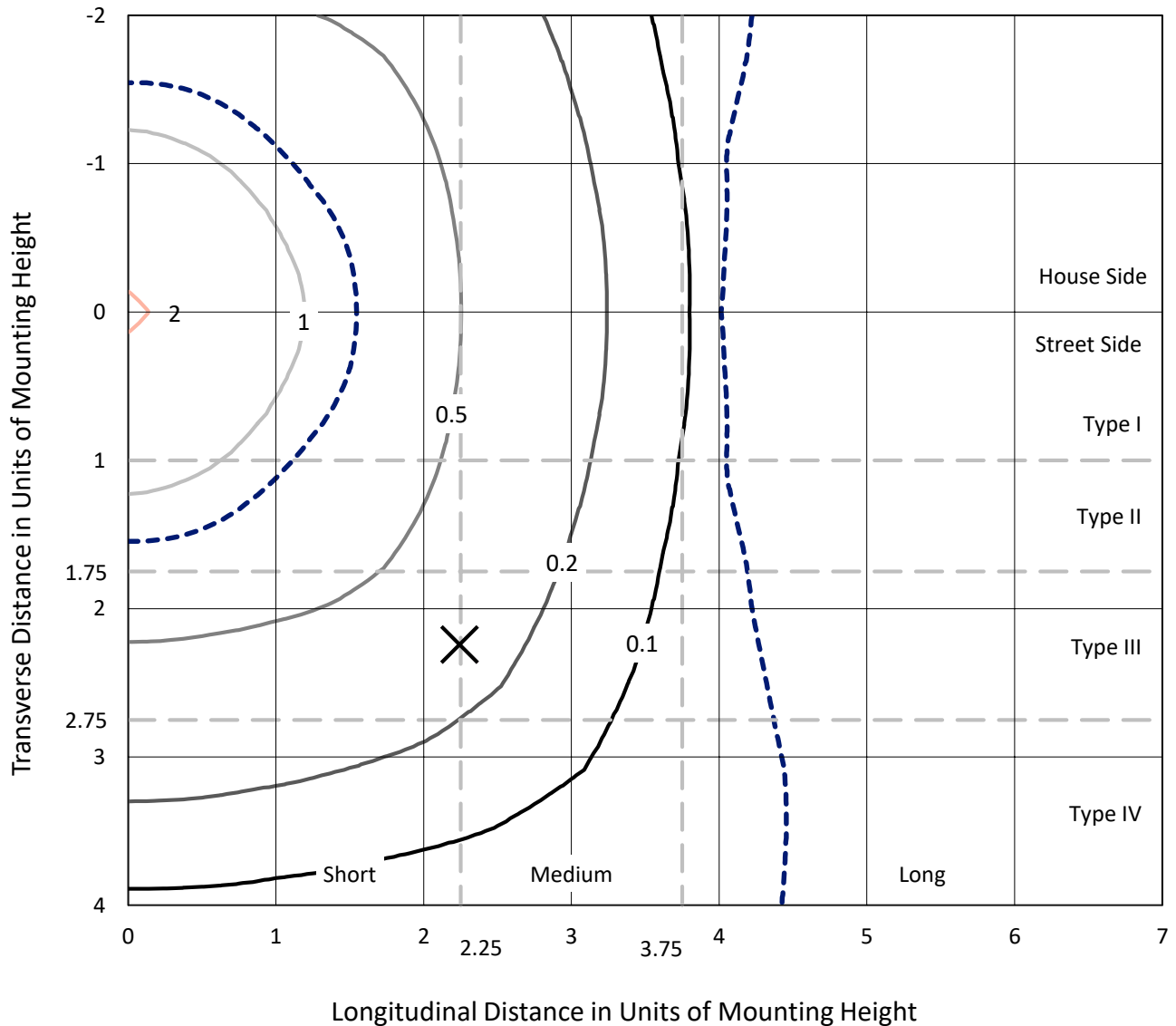


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

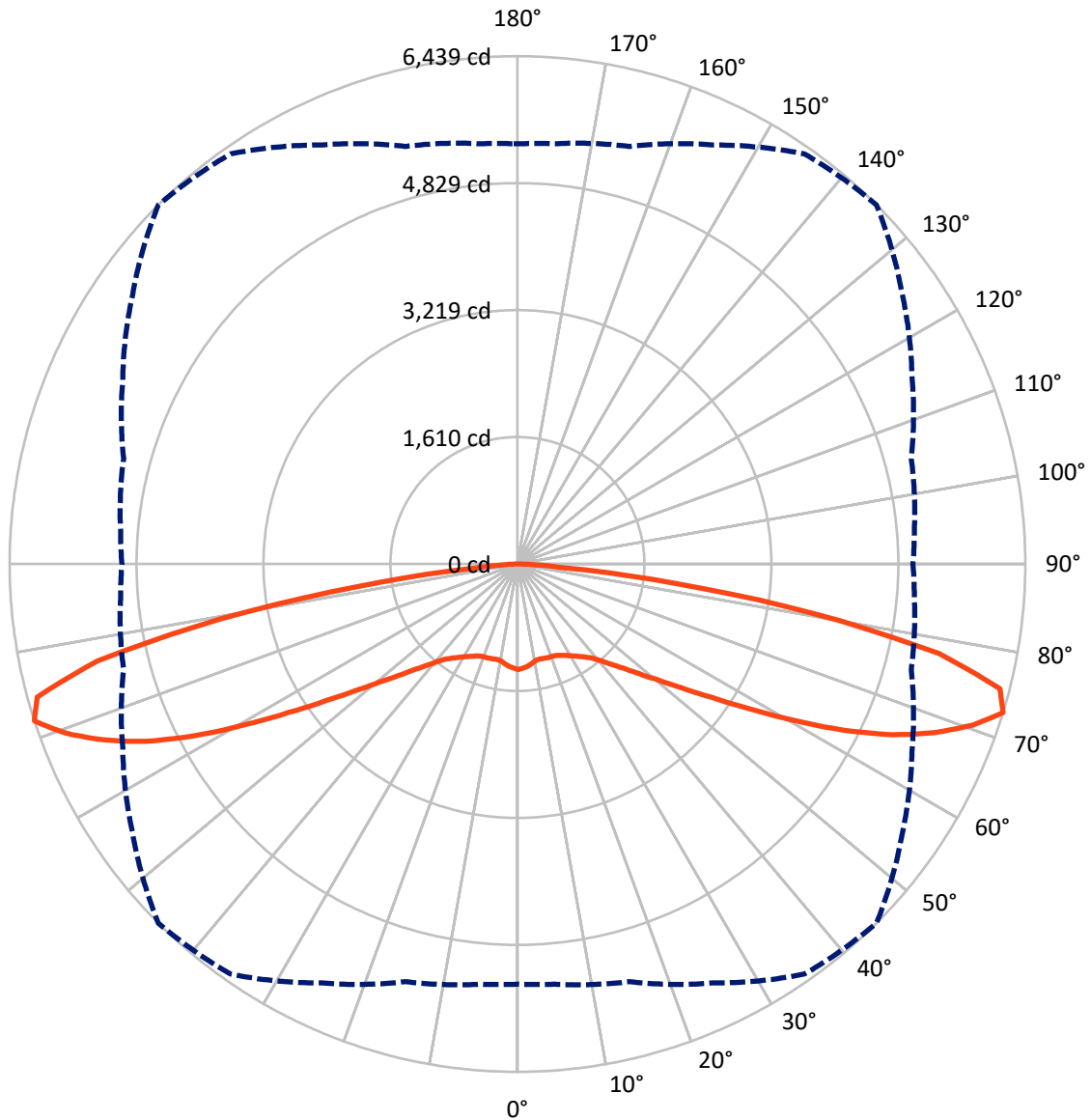


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Non-Cutoff

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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	8115.6	0.0	8115.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8115.6	0.0	8115.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	16231.2	0.0	16231.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	0.8
10°-20°	355.2	2.2
20°-30°	594.4	3.7
30°-40°	913.2	5.6
40°-50°	1512.1	9.3
50°-60°	2688.2	16.6
60°-70°	4703.0	29.0
70°-80°	4784.9	29.5
80°-90°	557.2	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°	16231.2	100.0
0°-180°	16231.2	100.0



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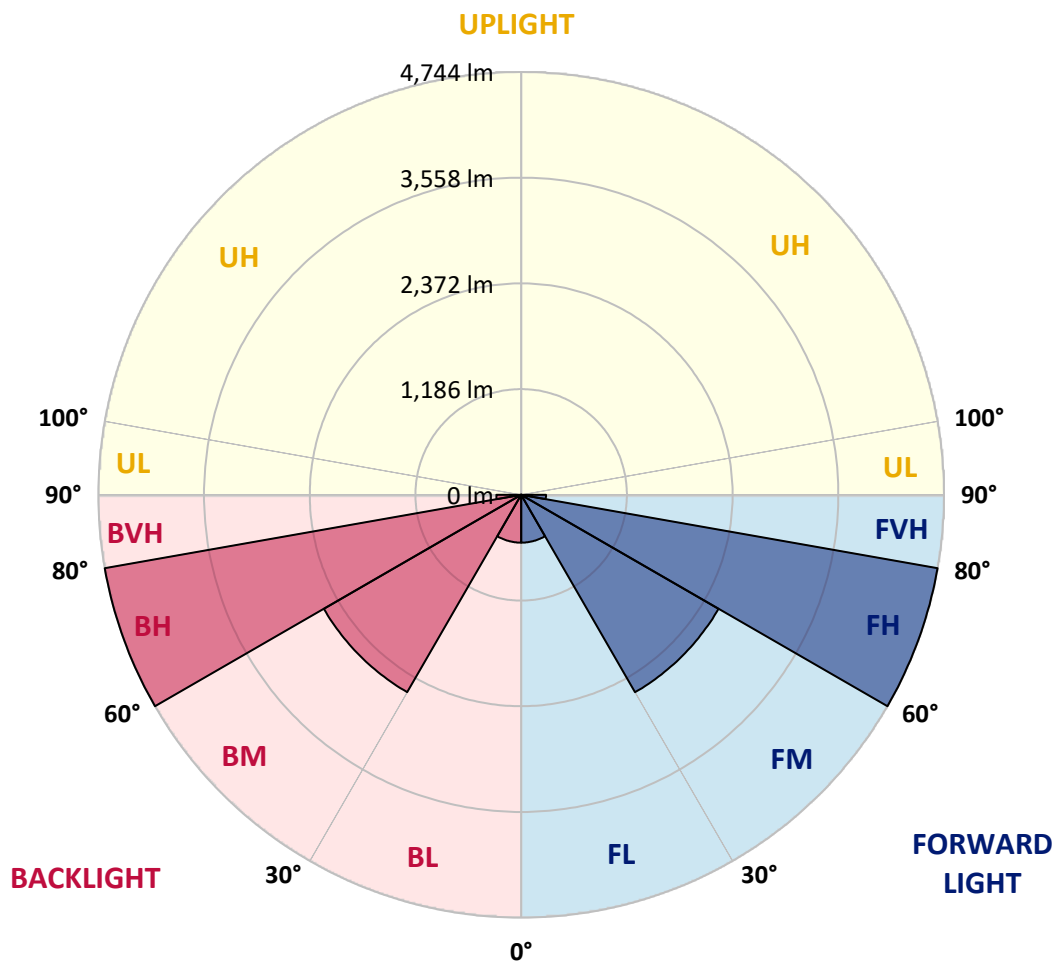
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	536.3	3.3			
FM	(30°-60°)	2556.8	15.8			
FH	(60°-80°)	4743.9	29.2			G2/5000
FVH	(80°-90°)	278.6	1.7			G3/500
BL	(0°-30°)	536.3	3.3	B2/1000		
BM	(30°-60°)	2556.8	15.8	B3/5000		
BH	(60°-80°)	4743.9	29.2	B4/5000		G2/5000
BVH	(80°-90°)	278.6	1.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8
2.5°	1325.4	1328.5	1322.4	1322.4	1322.4	1319.3	1322.4	1319.3	1322.4	1325.4	1325.4
5°	1313.1	1313.1	1306.9	1306.9	1306.9	1303.9	1306.9	1306.9	1310.0	1313.1	1313.1
7.5°	1285.3	1285.3	1282.2	1279.1	1276.0	1276.0	1279.1	1279.1	1282.2	1285.3	1285.3
10°	1269.9	1266.7	1260.6	1251.3	1248.2	1245.1	1251.3	1257.5	1266.7	1276.0	1273.0
12.5°	1263.7	1260.6	1248.2	1239.0	1232.8	1235.8	1242.1	1248.2	1263.7	1273.0	1269.9
15°	1269.9	1263.7	1248.2	1232.8	1235.8	1242.1	1248.2	1248.2	1266.7	1276.0	1276.0
17.5°	1269.9	1266.7	1248.2	1235.8	1239.0	1248.2	1251.3	1248.2	1263.7	1279.1	1279.1
20°	1273.0	1273.0	1248.2	1239.0	1242.1	1251.3	1254.4	1251.3	1263.7	1282.2	1282.2
22.5°	1279.1	1276.0	1251.3	1245.1	1251.3	1257.5	1260.6	1257.5	1269.9	1285.3	1288.4
25°	1291.5	1285.3	1263.7	1260.6	1273.0	1282.2	1282.2	1276.0	1282.2	1297.6	1297.6
27.5°	1306.9	1303.9	1279.1	1279.1	1294.5	1313.1	1303.9	1291.5	1297.6	1313.1	1313.1
30°	1334.7	1331.7	1306.9	1306.9	1328.5	1350.2	1328.5	1313.1	1322.4	1337.8	1340.9
32.5°	1374.9	1374.9	1353.3	1347.1	1384.2	1393.5	1384.2	1353.3	1359.5	1381.1	1381.1
35°	1442.9	1436.7	1415.0	1412.0	1449.0	1445.9	1442.9	1415.0	1421.3	1445.9	1445.9
37.5°	1532.5	1529.4	1510.8	1501.6	1520.1	1507.7	1514.0	1501.6	1517.0	1535.6	1538.6
40°	1646.7	1643.7	1628.2	1615.9	1622.1	1603.6	1609.7	1615.9	1631.3	1643.7	1646.7
42.5°	1788.9	1788.9	1773.5	1751.8	1742.6	1733.3	1733.3	1745.7	1761.1	1776.6	1776.6
45°	1965.0	1965.0	1946.5	1924.9	1897.1	1881.6	1887.8	1900.1	1918.6	1937.3	1943.4
47.5°	2172.0	2172.0	2147.3	2125.7	2097.9	2079.4	2079.4	2085.5	2113.3	2128.8	2138.1
50°	2403.7	2394.5	2369.8	2348.2	2332.7	2308.0	2311.1	2308.0	2332.7	2354.3	2360.5
52.5°	2644.7	2641.7	2616.9	2610.8	2620.1	2607.7	2607.7	2576.8	2586.0	2598.4	2595.3
55°	2944.5	2935.2	2913.6	2925.9	2963.0	2981.5	2975.4	2925.9	2898.1	2904.3	2901.2
57.5°	3271.9	3262.7	3256.5	3293.6	3377.0	3454.2	3438.8	3324.5	3271.9	3275.1	3278.1
60°	3605.6	3605.6	3624.2	3716.9	3896.1	4022.8	3976.4	3784.8	3692.1	3673.6	3667.4
62.5°	3948.6	3957.9	3998.0	4152.5	4427.5	4637.5	4520.2	4248.3	4109.3	4072.2	4059.8
65°	4347.1	4356.4	4415.2	4606.7	4971.2	5221.6	5020.7	4764.3	4569.6	4492.4	4480.0
67.5°	4924.9	4931.1	4977.5	5162.8	5505.8	5706.6	5499.6	5271.0	5060.8	4971.2	4965.1
70°	5443.9	5450.2	5490.4	5734.5	6049.5	6120.6	5892.0	5601.6	5382.2	5311.2	5298.8
72.5°	5326.6	5348.2	5481.1	5861.1	6346.2	6438.9	5956.8	5521.3	5169.0	5051.6	5014.5
75°	4467.6	4501.6	4711.7	5283.3	6055.8	6318.4	5573.8	4773.5	4248.3	4022.8	3964.0
77.5°	2607.7	2734.3	3095.9	3828.1	4931.1	5465.6	4591.2	3494.4	2610.8	2240.1	2116.4
80°	713.7	781.6	1044.3	1761.1	3092.8	3828.1	2929.0	1603.6	865.1	648.9	602.5
82.5°	225.6	299.7	380.0	506.7	1214.2	2017.6	1087.6	472.7	370.7	305.9	271.9
85°	120.5	129.8	213.2	247.1	364.6	565.4	336.8	247.1	222.5	163.8	154.5
87.5°	61.8	64.9	120.5	120.5	160.7	132.9	145.3	132.9	126.6	80.3	71.1
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)