

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: P265589

Luminaire Tested: **ARCH-L-AF72-110-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265589
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-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 13784.9 lumens
Efficiency: N/A
Efficacy: 122.0 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

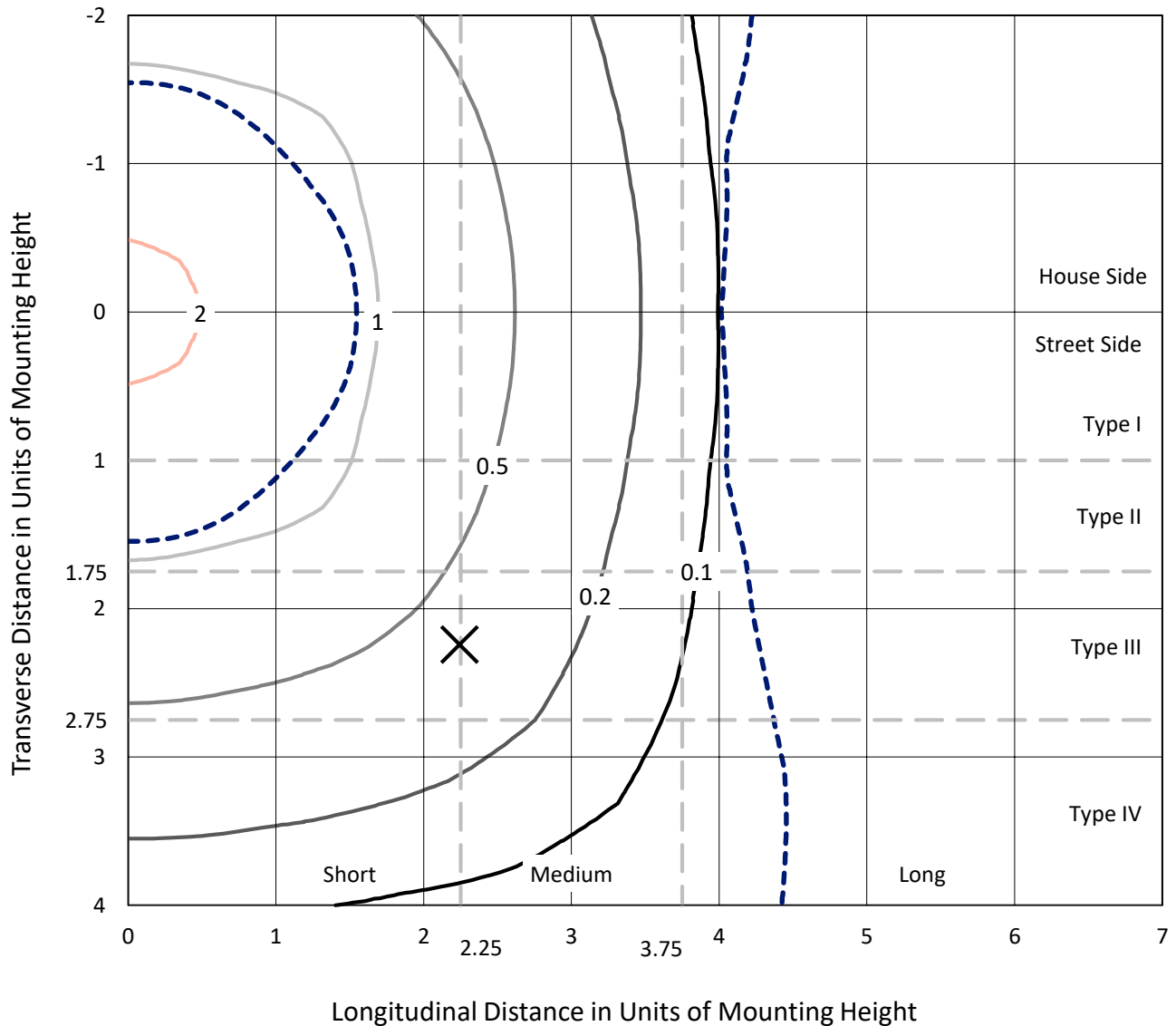


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

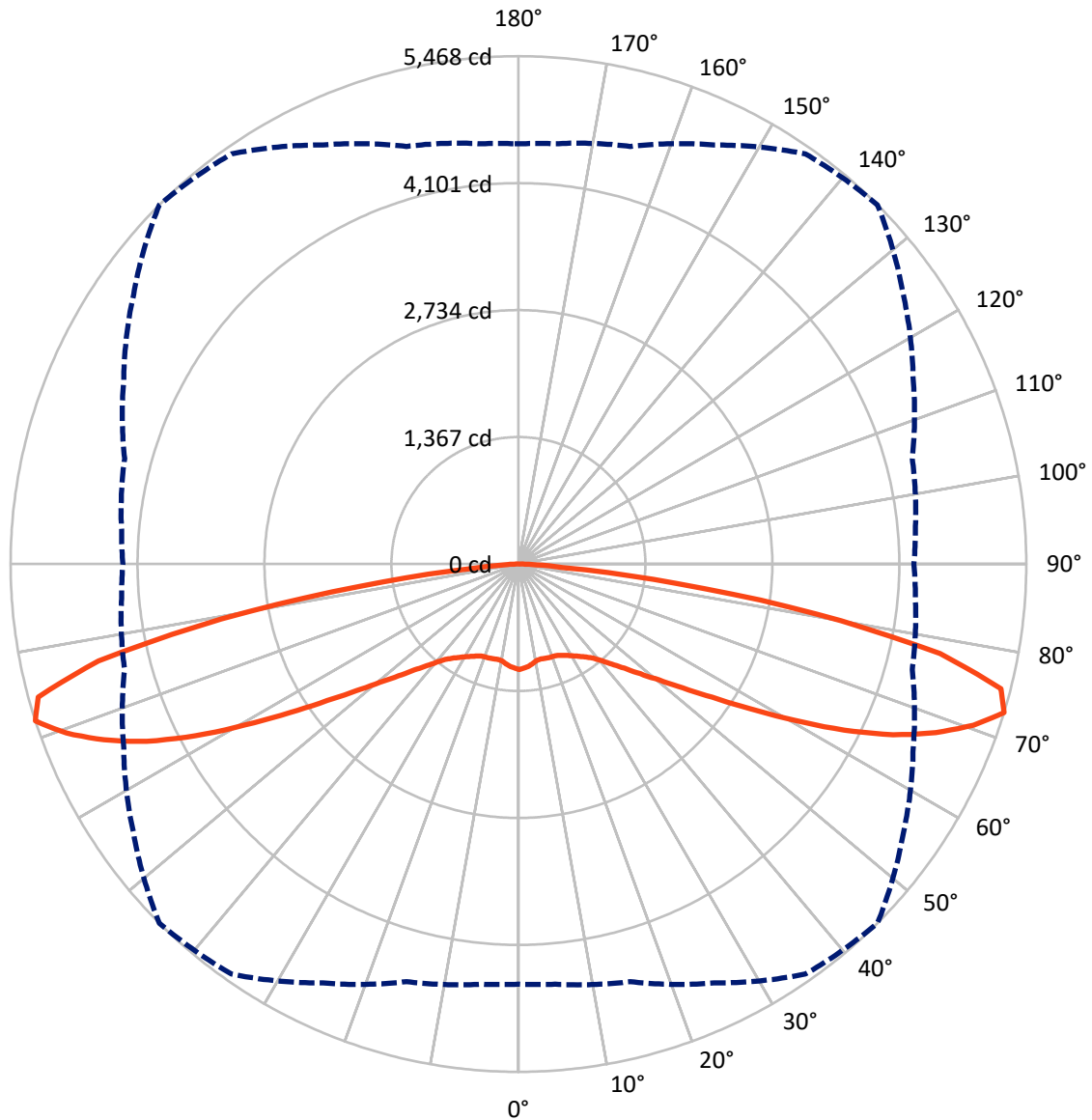


Based on 20 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Non-Cutoff

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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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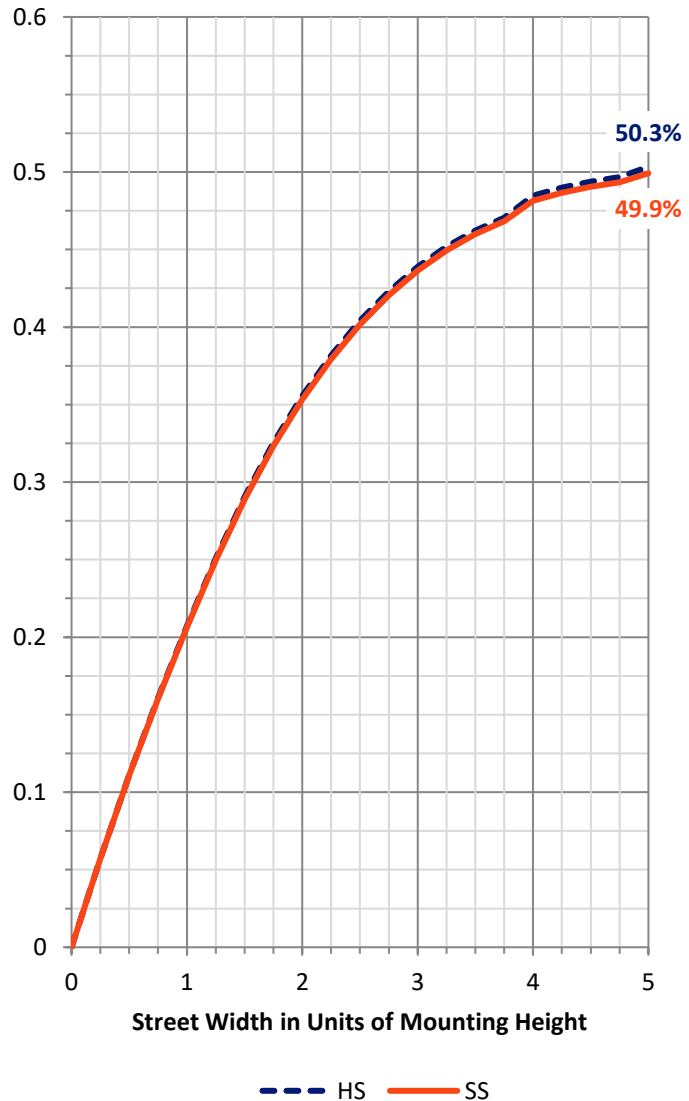
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6892.4	0.0	6892.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6892.4	0.0	6892.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	13784.9	0.0	13784.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	0.8
10°-20°	301.6	2.2
20°-30°	504.8	3.7
30°-40°	775.6	5.6
40°-50°	1284.2	9.3
50°-60°	2283.0	16.6
60°-70°	3994.1	29.0
70°-80°	4063.7	29.5
80°-90°	473.2	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°	13784.9	100.0
0°-180°	13784.9	100.0



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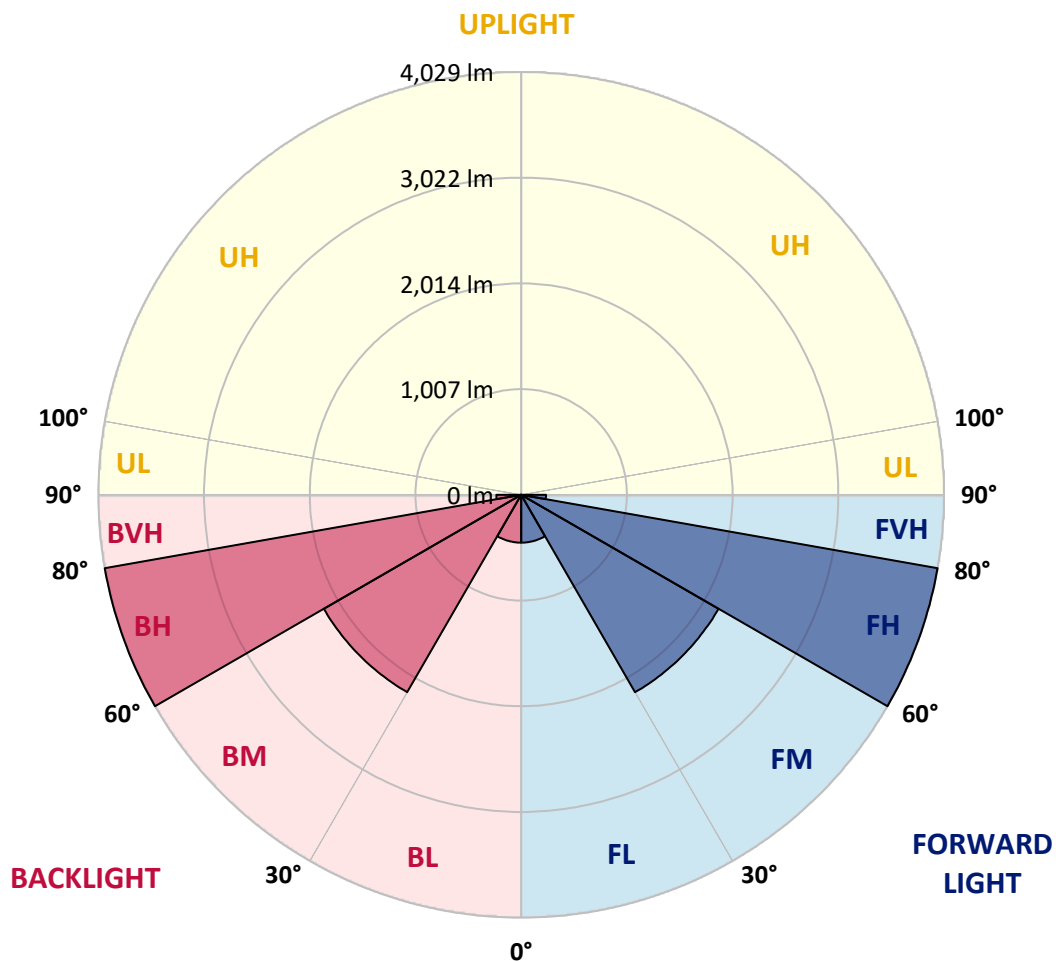
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	455.5	3.3			
FM	(30°-60°)	2171.4	15.8			
FH	(60°-80°)	4028.9	29.2			G2/5000
FVH	(80°-90°)	236.6	1.7			G3/500
BL	(0°-30°)	455.5	3.3	B1/500		
BM	(30°-60°)	2171.4	15.8	B2/2500		
BH	(60°-80°)	4028.9	29.2	B4/5000		G2/5000
BVH	(80°-90°)	236.6	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°	1136.1	1136.1	1136.1	1136.1	1136.1	1136.1	1136.1	1136.1	1136.1	1136.1	1136.1
2.5°	1125.7	1128.4	1123.2	1123.2	1123.2	1120.5	1123.2	1120.5	1123.2	1125.7	1125.7
5°	1115.2	1115.2	1109.9	1109.9	1109.9	1107.3	1109.9	1109.9	1112.6	1115.2	1115.2
7.5°	1091.6	1091.6	1088.9	1086.3	1083.7	1083.7	1086.3	1086.3	1088.9	1091.6	1091.6
10°	1078.4	1075.8	1070.6	1062.8	1060.1	1057.5	1062.8	1067.9	1075.8	1083.7	1081.1
12.5°	1073.3	1070.6	1060.1	1052.3	1047.0	1049.6	1054.9	1060.1	1073.3	1081.1	1078.4
15°	1078.4	1073.3	1060.1	1047.0	1049.6	1054.9	1060.1	1060.1	1075.8	1083.7	1083.7
17.5°	1078.4	1075.8	1060.1	1049.6	1052.3	1060.1	1062.8	1060.1	1073.3	1086.3	1086.3
20°	1081.1	1081.1	1060.1	1052.3	1054.9	1062.8	1065.3	1062.8	1073.3	1088.9	1088.9
22.5°	1086.3	1083.7	1062.8	1057.5	1062.8	1067.9	1070.6	1067.9	1078.4	1091.6	1094.2
25°	1096.8	1091.6	1073.3	1070.6	1081.1	1088.9	1088.9	1083.7	1088.9	1102.1	1102.1
27.5°	1109.9	1107.3	1086.3	1086.3	1099.4	1115.2	1107.3	1096.8	1102.1	1115.2	1115.2
30°	1133.7	1131.0	1109.9	1109.9	1128.4	1146.6	1128.4	1115.2	1123.2	1136.1	1138.8
32.5°	1167.6	1167.6	1149.3	1144.1	1175.5	1183.4	1175.5	1149.3	1154.5	1172.9	1172.9
35°	1225.4	1220.2	1201.8	1199.1	1230.7	1228.1	1225.4	1201.8	1207.1	1228.1	1228.1
37.5°	1301.6	1298.9	1283.1	1275.2	1291.0	1280.5	1285.7	1275.2	1288.3	1304.1	1306.8
40°	1398.7	1396.0	1382.9	1372.4	1377.6	1361.9	1367.1	1372.4	1385.5	1396.0	1398.7
42.5°	1519.4	1519.4	1506.2	1487.9	1480.0	1472.1	1472.1	1482.6	1495.7	1508.9	1508.9
45°	1669.0	1669.0	1653.2	1634.7	1611.1	1598.1	1603.2	1613.7	1629.5	1645.2	1650.5
47.5°	1844.7	1844.7	1823.6	1805.4	1781.7	1766.0	1766.0	1771.2	1794.9	1808.0	1815.8
50°	2041.5	2033.7	2012.7	1994.2	1981.1	1960.1	1962.7	1960.1	1981.1	1999.4	2004.7
52.5°	2246.1	2243.5	2222.5	2217.2	2225.1	2214.7	2214.7	2188.5	2196.3	2206.7	2204.3
55°	2500.7	2492.7	2474.4	2484.9	2516.4	2532.1	2526.9	2484.9	2461.4	2466.6	2464.0
57.5°	2778.8	2770.9	2765.7	2797.2	2868.1	2933.7	2920.5	2823.5	2778.8	2781.4	2784.0
60°	3062.2	3062.2	3078.0	3156.6	3308.8	3416.4	3377.1	3214.4	3135.8	3120.0	3114.8
62.5°	3353.6	3361.4	3395.5	3526.7	3760.2	3938.7	3838.9	3608.0	3489.9	3458.5	3448.0
65°	3691.9	3699.8	3749.7	3912.4	4222.0	4434.6	4264.1	4046.2	3880.9	3815.3	3804.9
67.5°	4182.7	4187.9	4227.2	4384.7	4675.9	4846.5	4670.7	4476.6	4298.1	4222.0	4216.7
70°	4623.4	4628.7	4662.8	4870.3	5137.9	5198.1	5004.0	4757.3	4571.0	4510.7	4500.1
72.5°	4523.8	4542.2	4654.9	4977.8	5389.7	5468.4	5059.1	4689.2	4389.9	4290.2	4258.8
75°	3794.4	3823.1	4001.6	4487.0	5143.1	5366.0	4733.7	4054.1	3608.0	3416.4	3366.6
77.5°	2214.7	2322.3	2629.2	3251.1	4187.9	4641.9	3899.4	2967.8	2217.2	1902.4	1797.5
80°	606.1	663.8	886.8	1495.7	2626.6	3251.1	2487.5	1361.9	734.8	551.0	511.7
82.5°	191.6	254.5	322.8	430.4	1031.3	1713.4	923.6	401.5	314.9	259.8	231.0
85°	102.3	110.2	181.1	209.9	309.6	480.2	286.0	209.9	189.0	139.1	131.2
87.5°	52.6	55.1	102.3	102.3	136.5	112.8	123.3	112.8	107.5	68.2	60.4
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)