

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: P214538

Luminaire Tested: **ARCH-AF24-90-D-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214538
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-AF24-90-D-U-5WQ-7050
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10030 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G2

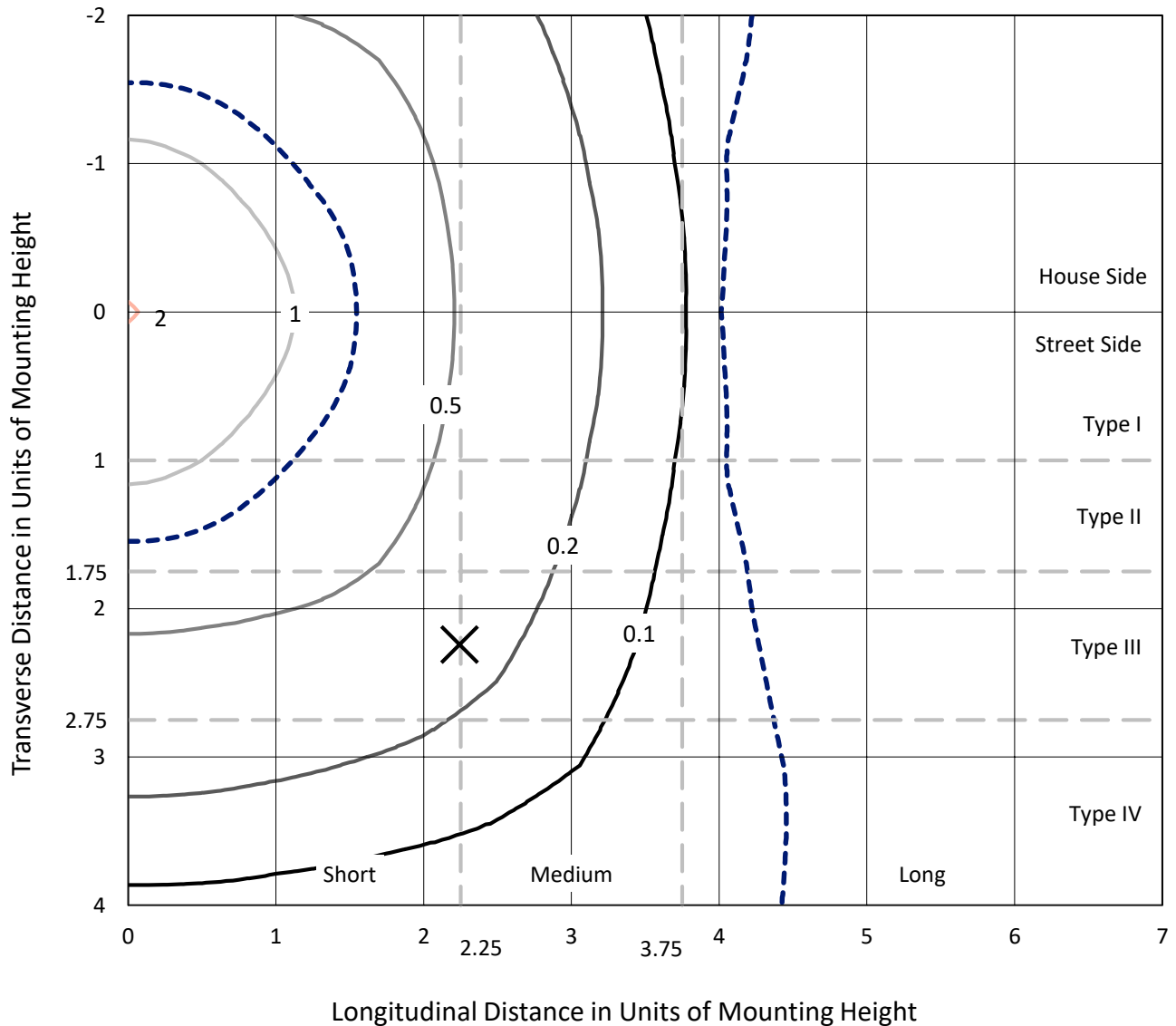
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

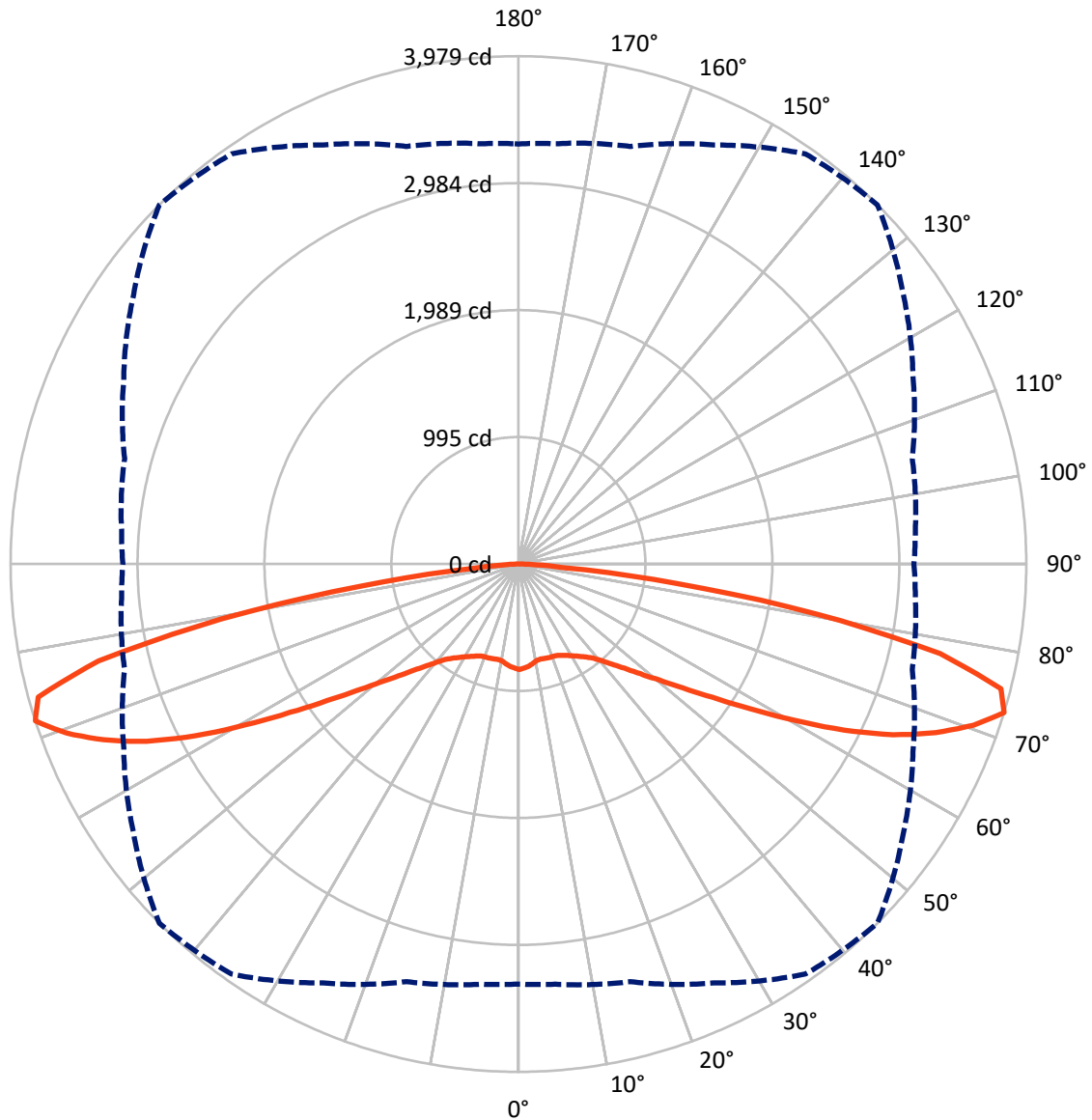


Based on 20 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Non-Cutoff

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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	5015.0	0.0	5015.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5015.0	0.0	5015.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10030.0	0.0	10030.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	0.8
10°-20°	219.5	2.2
20°-30°	367.3	3.7
30°-40°	564.3	5.6
40°-50°	934.4	9.3
50°-60°	1661.2	16.6
60°-70°	2906.2	29.0
70°-80°	2956.8	29.5
80°-90°	344.3	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°	10030.0	100.0
0°-180°	10030.0	100.0



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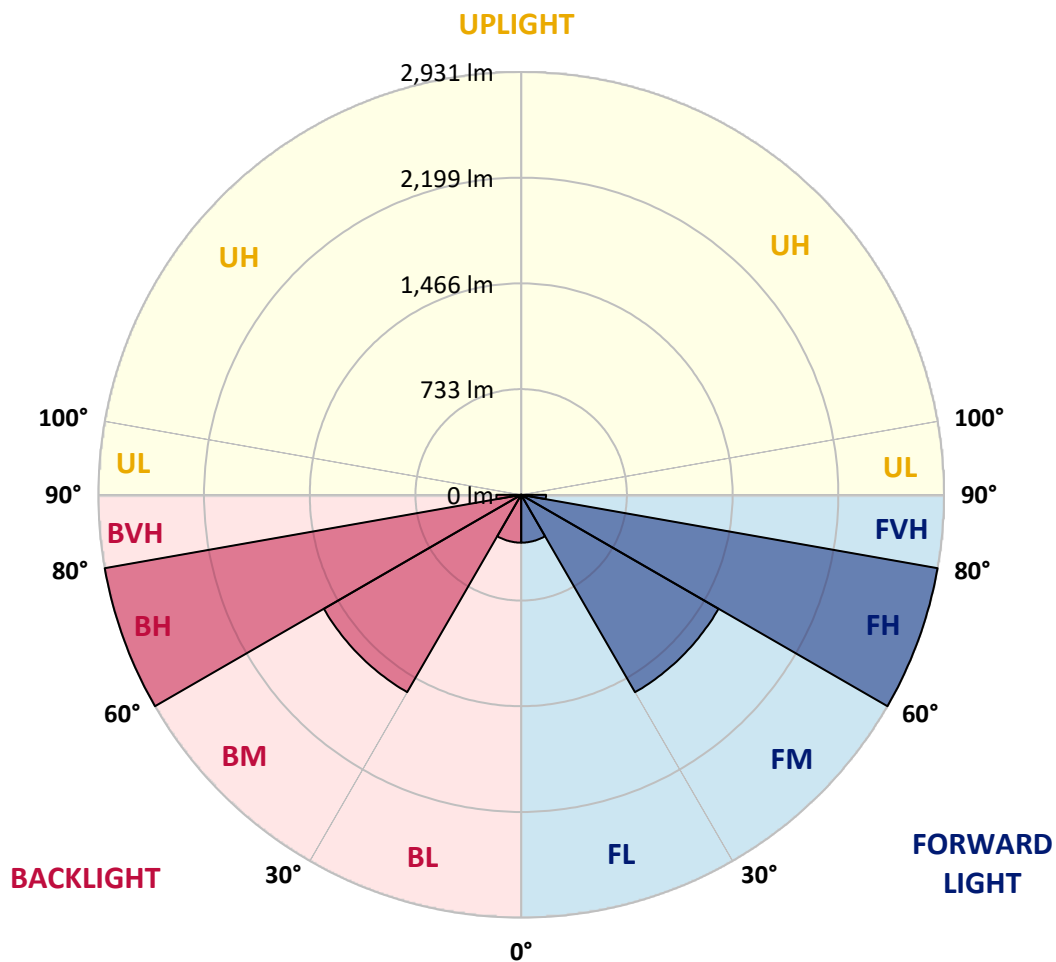
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	331.4	3.3			
FM	(30°-60°)	1579.9	15.8			
FH	(60°-80°)	2931.5	29.2			G2/5000
FVH	(80°-90°)	172.1	1.7			G2/225
BL	(0°-30°)	331.4	3.3	B1/500		
BM	(30°-60°)	1579.9	15.8	B2/2500		
BH	(60°-80°)	2931.5	29.2	B4/5000		G2/5000
BVH	(80°-90°)	172.1	1.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	826.7	826.7	826.7	826.7	826.7	826.7	826.7	826.7	826.7	826.7	826.7
2.5°	819.1	821.0	817.2	817.2	817.2	815.2	817.2	815.2	817.2	819.1	819.1
5°	811.4	811.4	807.6	807.6	807.6	805.7	807.6	807.6	809.5	811.4	811.4
7.5°	794.2	794.2	792.3	790.4	788.5	788.5	790.4	790.4	792.3	794.2	794.2
10°	784.7	782.8	779.0	773.2	771.3	769.4	773.2	777.1	782.8	788.5	786.6
12.5°	780.9	779.0	771.3	765.6	761.8	763.7	767.5	771.3	780.9	786.6	784.7
15°	784.7	780.9	771.3	761.8	763.7	767.5	771.3	771.3	782.8	788.5	788.5
17.5°	784.7	782.8	771.3	763.7	765.6	771.3	773.2	771.3	780.9	790.4	790.4
20°	786.6	786.6	771.3	765.6	767.5	773.2	775.2	773.2	780.9	792.3	792.3
22.5°	790.4	788.5	773.2	769.4	773.2	777.1	779.0	777.1	784.7	794.2	796.2
25°	798.1	794.2	780.9	779.0	786.6	792.3	792.3	788.5	792.3	801.9	801.9
27.5°	807.6	805.7	790.4	790.4	800.0	811.4	805.7	798.1	801.9	811.4	811.4
30°	824.8	822.9	807.6	807.6	821.0	834.3	821.0	811.4	817.2	826.7	828.6
32.5°	849.6	849.6	836.3	832.4	855.3	861.1	855.3	836.3	840.1	853.4	853.4
35°	891.6	887.8	874.4	872.5	895.4	893.5	891.6	874.4	878.3	893.5	893.5
37.5°	947.0	945.1	933.6	927.9	939.4	931.7	935.5	927.9	937.4	948.9	950.8
40°	1017.6	1015.7	1006.2	998.5	1002.4	990.9	994.7	998.5	1008.1	1015.7	1017.6
42.5°	1105.5	1105.5	1095.9	1082.5	1076.8	1071.1	1071.1	1078.7	1088.3	1097.8	1097.8
45°	1214.3	1214.3	1202.8	1189.5	1172.3	1162.7	1166.6	1174.2	1185.6	1197.1	1200.9
47.5°	1342.2	1342.2	1326.9	1313.6	1296.4	1284.9	1284.9	1288.7	1305.9	1315.5	1321.2
50°	1485.4	1479.7	1464.4	1451.0	1441.5	1426.2	1428.1	1426.2	1441.5	1454.8	1458.7
52.5°	1634.3	1632.4	1617.1	1613.3	1619.0	1611.4	1611.4	1592.3	1598.0	1605.7	1603.8
55°	1819.5	1813.8	1800.4	1808.1	1831.0	1842.4	1838.6	1808.1	1790.9	1794.7	1792.8
57.5°	2021.9	2016.2	2012.3	2035.3	2086.8	2134.5	2125.0	2054.4	2021.9	2023.8	2025.7
60°	2228.1	2228.1	2239.5	2296.8	2407.6	2485.8	2457.2	2338.8	2281.6	2270.1	2266.3
62.5°	2440.0	2445.7	2470.6	2566.0	2736.0	2865.8	2793.2	2625.2	2539.3	2516.4	2508.8
65°	2686.3	2692.0	2728.3	2846.7	3072.0	3226.6	3102.5	2944.1	2823.8	2776.0	2768.4
67.5°	3043.3	3047.2	3075.8	3190.4	3402.3	3526.4	3398.5	3257.2	3127.4	3072.0	3068.2
70°	3364.1	3367.9	3392.7	3543.6	3738.3	3782.2	3640.9	3461.5	3325.9	3282.0	3274.4
72.5°	3291.5	3304.9	3387.0	3621.8	3921.6	3978.9	3681.0	3411.8	3194.2	3121.6	3098.7
75°	2760.8	2781.8	2911.6	3264.8	3742.1	3904.4	3444.3	2949.8	2625.2	2485.8	2449.6
77.5°	1611.4	1689.7	1913.1	2365.6	3047.2	3377.5	2837.1	2159.4	1613.3	1384.2	1307.8
80°	441.0	483.0	645.3	1088.3	1911.2	2365.6	1810.0	990.9	534.6	400.9	372.3
82.5°	139.4	185.2	234.8	313.1	750.3	1246.7	672.1	292.1	229.1	189.0	168.0
85°	74.5	80.2	131.7	152.7	225.3	349.4	208.1	152.7	137.5	101.2	95.5
87.5°	38.2	40.1	74.5	74.5	99.3	82.1	89.7	82.1	78.3	49.6	43.9
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)