

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: P214539

Luminaire Tested: **ARCH-AF24-100-D-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214539
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-AF24-100-D-U-5WQ-7050
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10134 lumens
Efficiency: N/A
Efficacy: 105.6 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

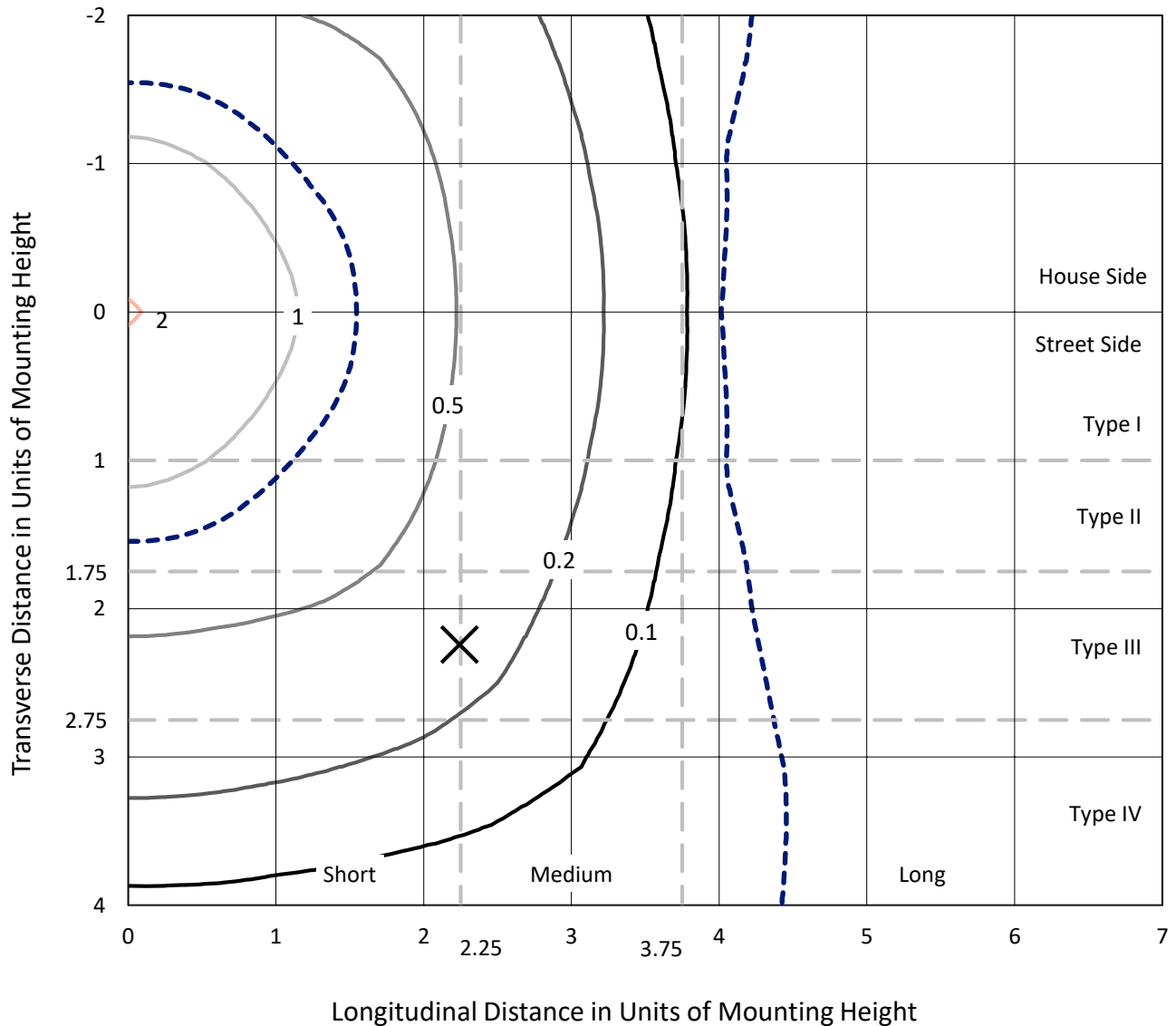
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

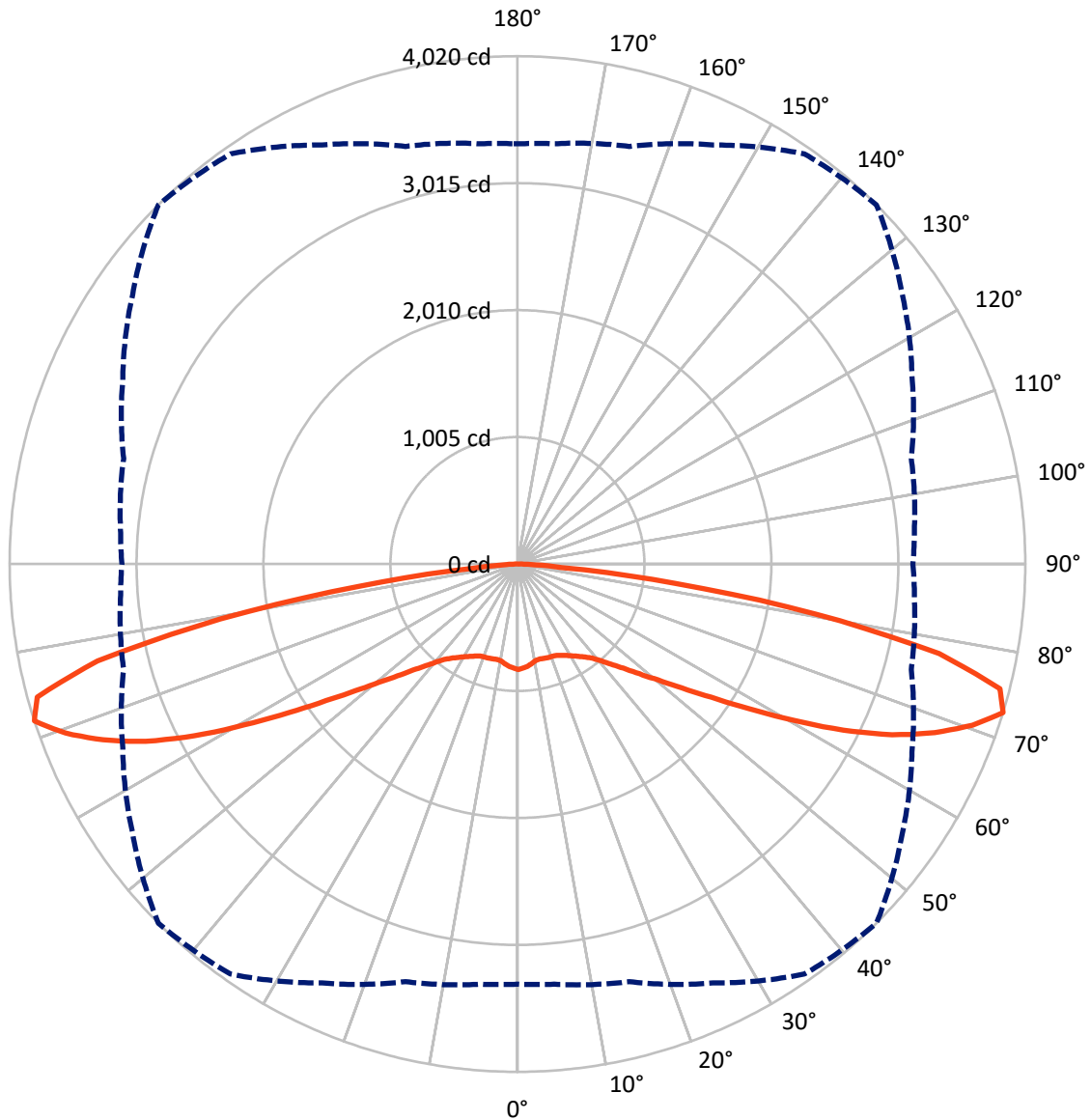


Based on 20 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Non-Cutoff

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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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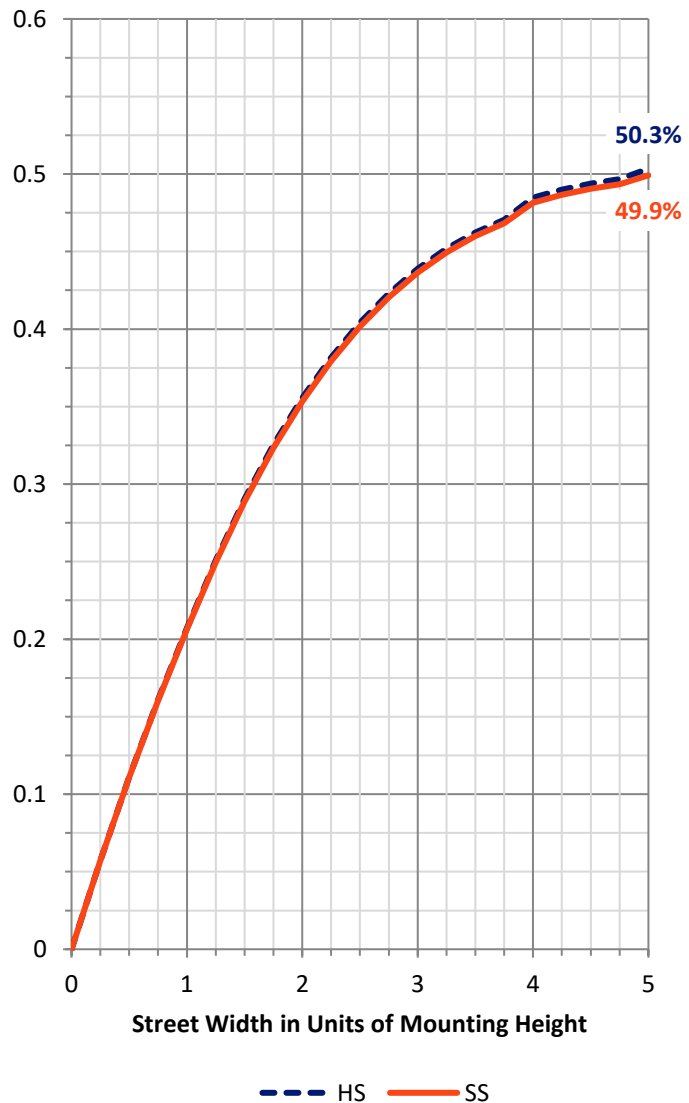
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5067.0	0.0	5067.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5067.0	0.0	5067.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10134.0	0.0	10134.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	0.8
10°-20°	221.7	2.2
20°-30°	371.1	3.7
30°-40°	570.2	5.6
40°-50°	944.1	9.3
50°-60°	1678.4	16.6
60°-70°	2936.3	29.0
70°-80°	2987.5	29.5
80°-90°	347.9	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°	10134.0	100.0
0°-180°	10134.0	100.0



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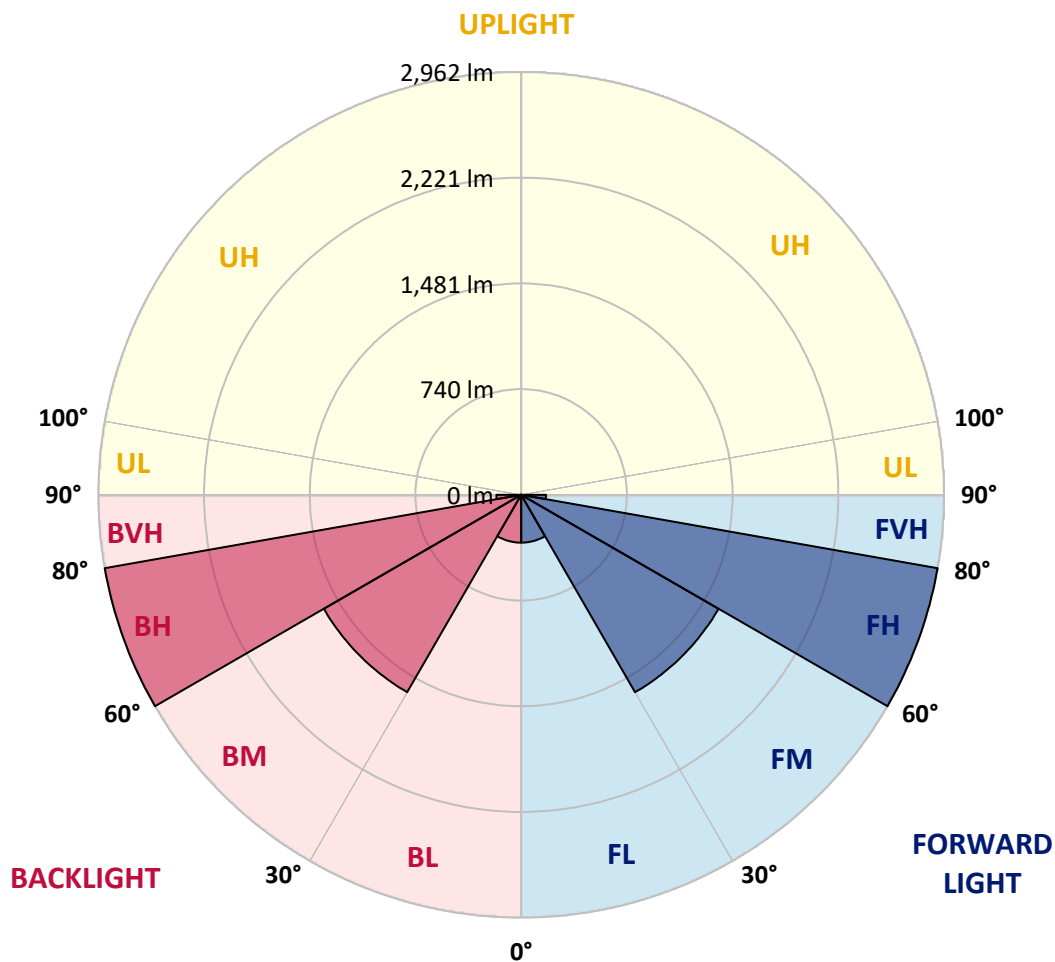
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.9	3.3			
FM	(30°-60°)	1596.3	15.8			
FH	(60°-80°)	2961.9	29.2			G2/5000
FVH	(80°-90°)	173.9	1.7			G2/225
BL	(0°-30°)	334.9	3.3	B1/500		
BM	(30°-60°)	1596.3	15.8	B2/2500		
BH	(60°-80°)	2961.9	29.2	B4/5000		G2/5000
BVH	(80°-90°)	173.9	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°	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3
2.5°	827.6	829.5	825.6	825.6	825.6	823.7	825.6	823.7	825.6	827.6	827.6
5°	819.8	819.8	816.0	816.0	816.0	814.1	816.0	816.0	817.9	819.8	819.8
7.5°	802.5	802.5	800.6	798.6	796.7	796.7	798.6	798.6	800.6	802.5	802.5
10°	792.8	790.9	787.1	781.3	779.3	777.4	781.3	785.1	790.9	796.7	794.8
12.5°	789.0	787.1	779.3	773.5	769.7	771.6	775.5	779.3	789.0	794.8	792.8
15°	792.8	789.0	779.3	769.7	771.6	775.5	779.3	779.3	790.9	796.7	796.7
17.5°	792.8	790.9	779.3	771.6	773.5	779.3	781.3	779.3	789.0	798.6	798.6
20°	794.8	794.8	779.3	773.5	775.5	781.3	783.2	781.3	789.0	800.6	800.6
22.5°	798.6	796.7	781.3	777.4	781.3	785.1	787.1	785.1	792.8	802.5	804.4
25°	806.3	802.5	789.0	787.1	794.8	800.6	800.6	796.7	800.6	810.2	810.2
27.5°	816.0	814.1	798.6	798.6	808.3	819.8	814.1	806.3	810.2	819.8	819.8
30°	833.3	831.4	816.0	816.0	829.5	843.0	829.5	819.8	825.6	835.3	837.2
32.5°	858.4	858.4	844.9	841.1	864.2	870.0	864.2	844.9	848.8	862.3	862.3
35°	900.9	897.0	883.5	881.6	904.7	902.8	900.9	883.5	887.4	902.8	902.8
37.5°	956.8	954.9	943.3	937.5	949.1	941.4	945.2	937.5	947.2	958.7	960.7
40°	1028.2	1026.3	1016.6	1008.9	1012.7	1001.2	1005.0	1008.9	1018.5	1026.3	1028.2
42.5°	1116.9	1116.9	1107.3	1093.8	1088.0	1082.2	1082.2	1089.9	1099.6	1109.2	1109.2
45°	1226.9	1226.9	1215.3	1201.8	1184.4	1174.8	1178.6	1186.4	1197.9	1209.5	1213.4
47.5°	1356.1	1356.1	1340.7	1327.2	1309.8	1298.2	1298.2	1302.1	1319.5	1329.1	1334.9
50°	1500.8	1495.0	1479.6	1466.1	1456.4	1441.0	1442.9	1441.0	1456.4	1469.9	1473.8
52.5°	1651.3	1649.3	1633.9	1630.0	1635.8	1628.1	1628.1	1608.8	1614.6	1622.3	1620.4
55°	1838.4	1832.6	1819.1	1826.8	1850.0	1861.5	1857.7	1826.8	1809.4	1813.3	1811.4
57.5°	2042.9	2037.1	2033.2	2056.4	2108.4	2156.7	2147.0	2075.7	2042.9	2044.8	2046.7
60°	2251.2	2251.2	2262.8	2320.6	2432.5	2511.6	2482.7	2363.1	2305.2	2293.6	2289.8
62.5°	2465.3	2471.1	2496.2	2592.6	2764.3	2895.5	2822.2	2652.4	2565.6	2542.5	2534.8
65°	2714.2	2720.0	2756.6	2876.2	3103.8	3260.1	3134.7	2974.6	2853.1	2804.8	2797.1
67.5°	3074.9	3078.8	3107.7	3223.4	3437.6	3562.9	3433.7	3291.0	3159.8	3103.8	3100.0
70°	3399.0	3402.8	3427.9	3580.3	3777.1	3821.4	3678.7	3497.4	3360.4	3316.0	3308.3
72.5°	3325.7	3339.2	3422.1	3659.4	3962.3	4020.1	3719.2	3447.2	3227.3	3154.0	3130.8
75°	2789.4	2810.6	2941.8	3298.7	3780.9	3944.9	3480.0	2980.4	2652.4	2511.6	2475.0
77.5°	1628.1	1707.2	1932.9	2390.1	3078.8	3412.5	2866.6	2181.8	1630.0	1398.6	1321.4
80°	445.6	488.0	652.0	1099.6	1931.0	2390.1	1828.7	1001.2	540.1	405.1	376.2
82.5°	140.8	187.1	237.3	316.4	758.1	1259.7	679.0	295.1	231.5	191.0	169.8
85°	75.2	81.0	133.1	154.3	227.6	353.0	210.3	154.3	138.9	102.2	96.5
87.5°	38.6	40.5	75.2	75.2	100.3	82.9	90.7	82.9	79.1	50.2	44.4
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)