

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: P265958

Luminaire Tested: **ARCH-AF24-70-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265958
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-AF24-70-D-U-5WQ-7027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7524 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 74
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

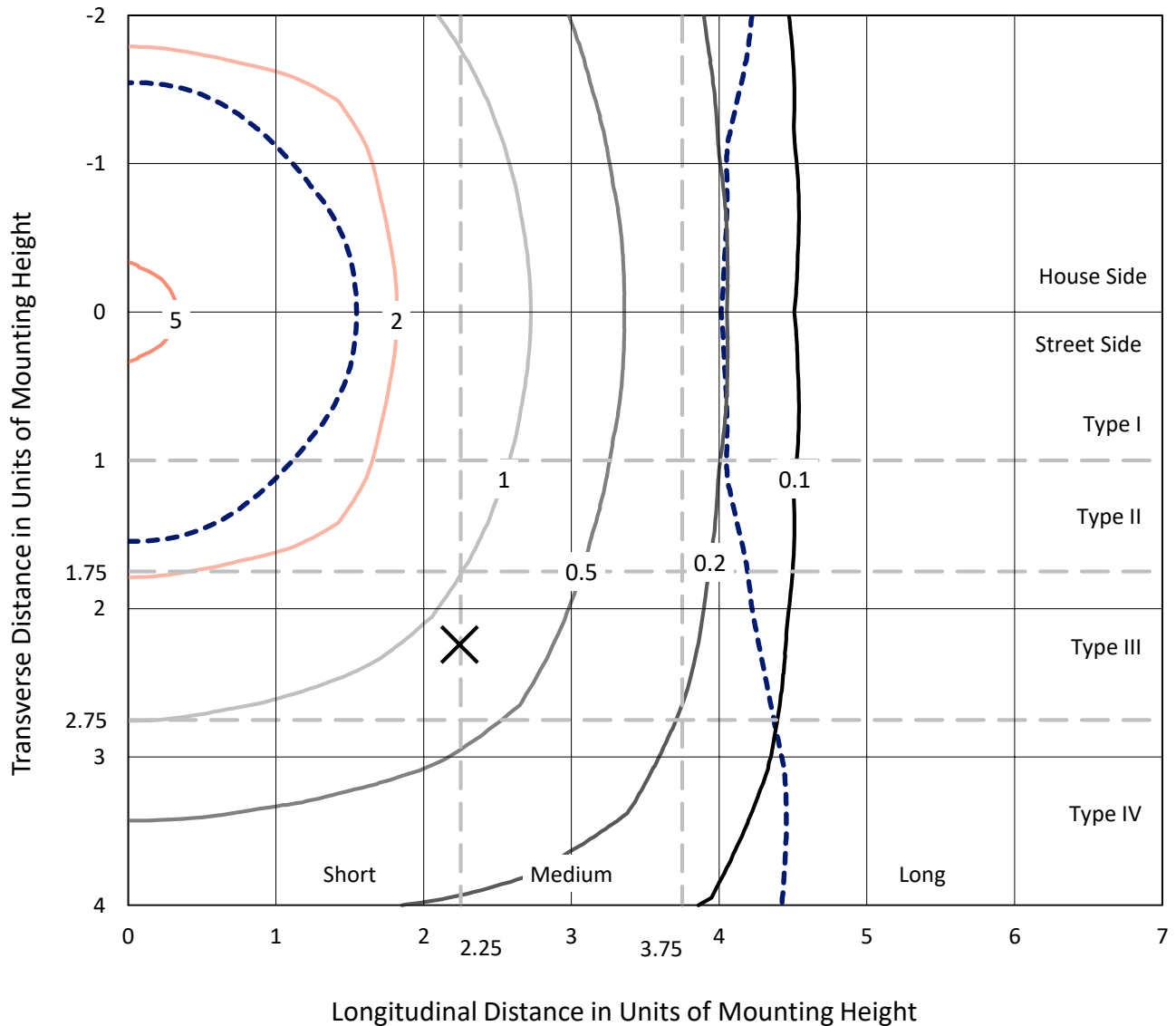


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

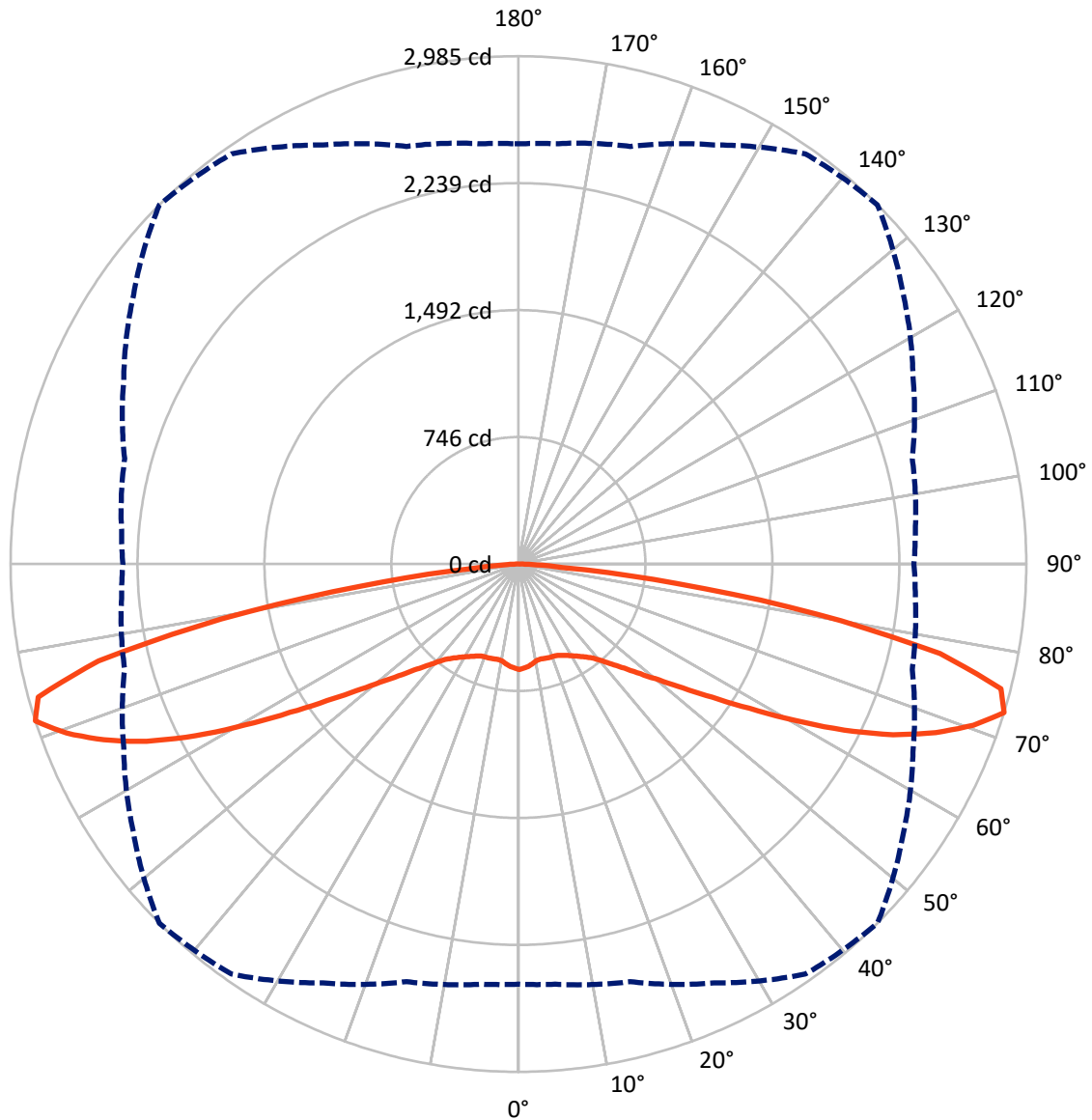


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - Non-Cutoff

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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	3762.0	0.0	3762.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3762.0	0.0	3762.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7524.0	0.0	7524.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	0.8
10°-20°	164.6	2.2
20°-30°	275.5	3.7
30°-40°	423.3	5.6
40°-50°	700.9	9.3
50°-60°	1246.1	16.6
60°-70°	2180.1	29.0
70°-80°	2218.1	29.5
80°-90°	258.3	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°	7524.0	100.0
0°-180°	7524.0	100.0



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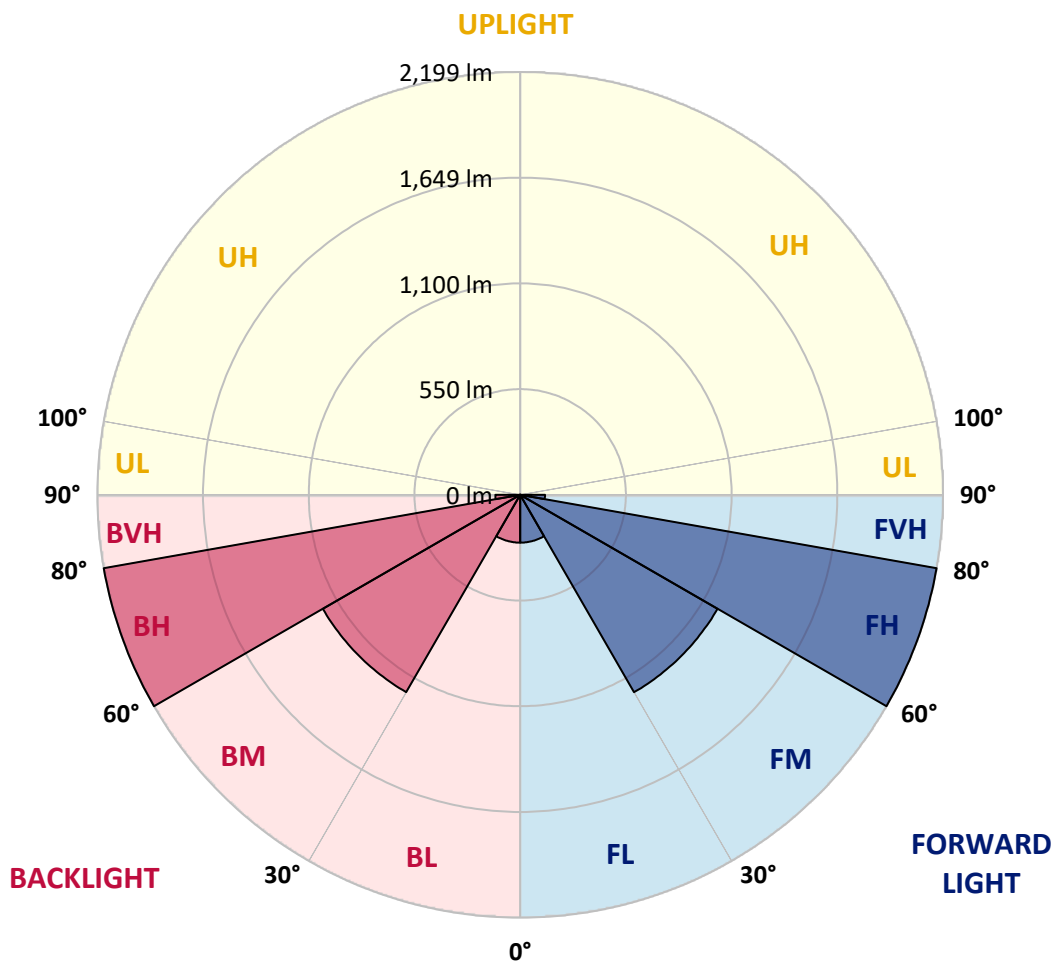
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.6	3.3			
FM (30°-60°)	1185.2	15.8			
FH (60°-80°)	2199.1	29.2			G2/5000
FVH (80°-90°)	129.1	1.7			G2/225
BL (0°-30°)	248.6	3.3	B1/500		
BM (30°-60°)	1185.2	15.8	B2/2500		
BH (60°-80°)	2199.1	29.2	B3/2500		G2/5000
BVH (80°-90°)	129.1	1.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2
2.5°	614.4	615.9	613.1	613.1	613.1	611.6	613.1	611.6	613.1	614.4	614.4
5°	608.7	608.7	605.8	605.8	605.8	604.4	605.8	605.8	607.3	608.7	608.7
7.5°	595.8	595.8	594.4	592.9	591.5	591.5	592.9	592.9	594.4	595.8	595.8
10°	588.7	587.2	584.3	580.0	578.6	577.3	580.0	582.9	587.2	591.5	590.0
12.5°	585.8	584.3	578.6	574.3	571.4	572.8	575.8	578.6	585.8	590.0	588.7
15°	588.7	585.8	578.6	571.4	572.8	575.8	578.6	578.6	587.2	591.5	591.5
17.5°	588.7	587.2	578.6	572.8	574.3	578.6	580.0	578.6	585.8	592.9	592.9
20°	590.0	590.0	578.6	574.3	575.8	580.0	581.6	580.0	585.8	594.4	594.4
22.5°	592.9	591.5	580.0	577.3	580.0	582.9	584.3	582.9	588.7	595.8	597.3
25°	598.7	595.8	585.8	584.3	590.0	594.4	594.4	591.5	594.4	601.5	601.5
27.5°	605.8	604.4	592.9	592.9	600.1	608.7	604.4	598.7	601.5	608.7	608.7
30°	618.8	617.2	605.8	605.8	615.9	625.8	615.9	608.7	613.1	620.2	621.5
32.5°	637.3	637.3	627.3	624.4	641.6	645.9	641.6	627.3	630.3	640.2	640.2
35°	668.9	666.1	655.9	654.5	671.8	670.2	668.9	655.9	658.8	670.2	670.2
37.5°	710.4	708.9	700.4	696.0	704.7	698.9	701.8	696.0	703.3	711.7	713.3
40°	763.4	761.9	754.8	749.0	751.9	743.3	746.2	749.0	756.3	761.9	763.4
42.5°	829.2	829.2	822.0	812.1	807.8	803.4	803.4	809.3	816.4	823.6	823.6
45°	910.9	910.9	902.3	892.2	879.4	872.3	875.0	880.8	889.4	898.0	900.9
47.5°	1006.9	1006.9	995.4	985.4	972.4	963.9	963.9	966.8	979.6	986.8	991.1
50°	1114.3	1109.9	1098.4	1088.4	1081.3	1069.9	1071.3	1069.9	1081.3	1091.4	1094.2
52.5°	1225.9	1224.6	1213.2	1210.2	1214.5	1208.8	1208.8	1194.4	1198.8	1204.4	1203.1
55°	1365.0	1360.7	1350.6	1356.4	1373.5	1382.1	1379.3	1356.4	1343.4	1346.3	1344.9
57.5°	1516.7	1512.4	1509.6	1526.8	1565.4	1601.1	1594.0	1541.1	1516.7	1518.1	1519.7
60°	1671.3	1671.3	1680.0	1722.9	1806.0	1864.7	1843.3	1754.5	1711.5	1702.9	1700.0
62.5°	1830.3	1834.7	1853.4	1924.9	2052.4	2149.7	2095.3	1969.4	1904.9	1887.7	1881.9
65°	2015.2	2019.4	2046.7	2135.5	2304.4	2420.5	2327.4	2208.6	2118.3	2082.5	2076.7
67.5°	2283.0	2285.8	2307.3	2393.3	2552.3	2645.2	2549.4	2443.4	2346.1	2304.4	2301.5
70°	2523.6	2526.5	2545.1	2658.3	2804.2	2837.2	2731.2	2596.6	2495.0	2462.1	2456.2
72.5°	2469.3	2479.2	2540.8	2717.0	2941.8	2984.8	2761.3	2559.5	2396.0	2341.7	2324.5
75°	2071.0	2086.8	2184.1	2449.0	2807.2	2929.0	2583.7	2212.7	1969.4	1864.7	1837.6
77.5°	1208.8	1267.5	1435.1	1774.5	2285.8	2533.6	2128.3	1619.9	1210.2	1038.4	981.0
80°	330.8	362.3	484.0	816.4	1433.7	1774.5	1357.8	743.3	401.1	300.8	279.4
82.5°	104.6	138.9	176.2	234.8	562.9	935.2	504.2	219.1	171.8	141.8	126.0
85°	55.9	60.1	98.9	114.5	169.1	262.0	156.1	114.5	103.1	75.8	71.7
87.5°	28.7	30.1	55.9	55.9	74.5	61.5	67.4	61.5	58.7	37.2	33.0
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)