

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: P199138

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-5WQ-8030-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3383 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 34
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

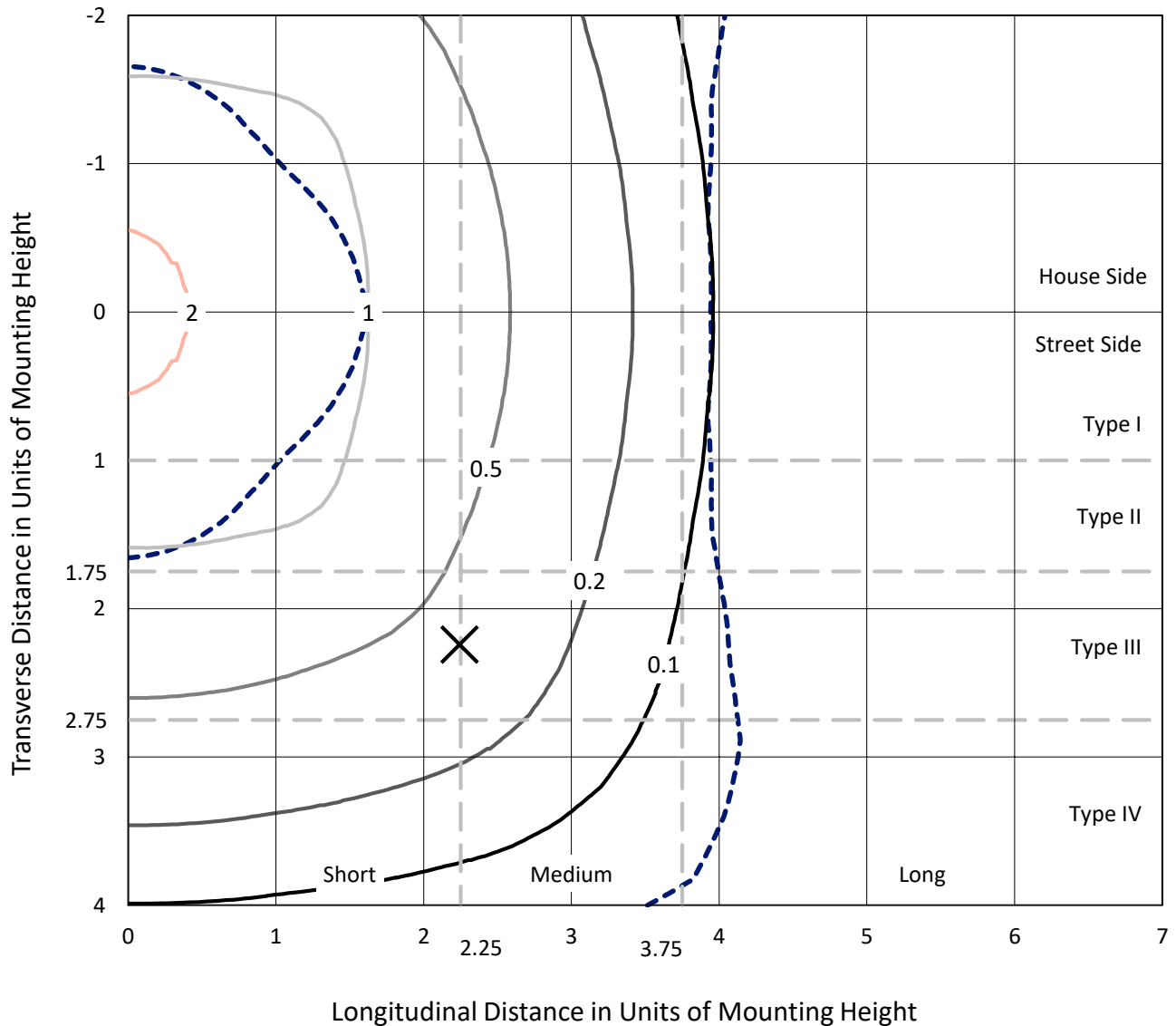


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

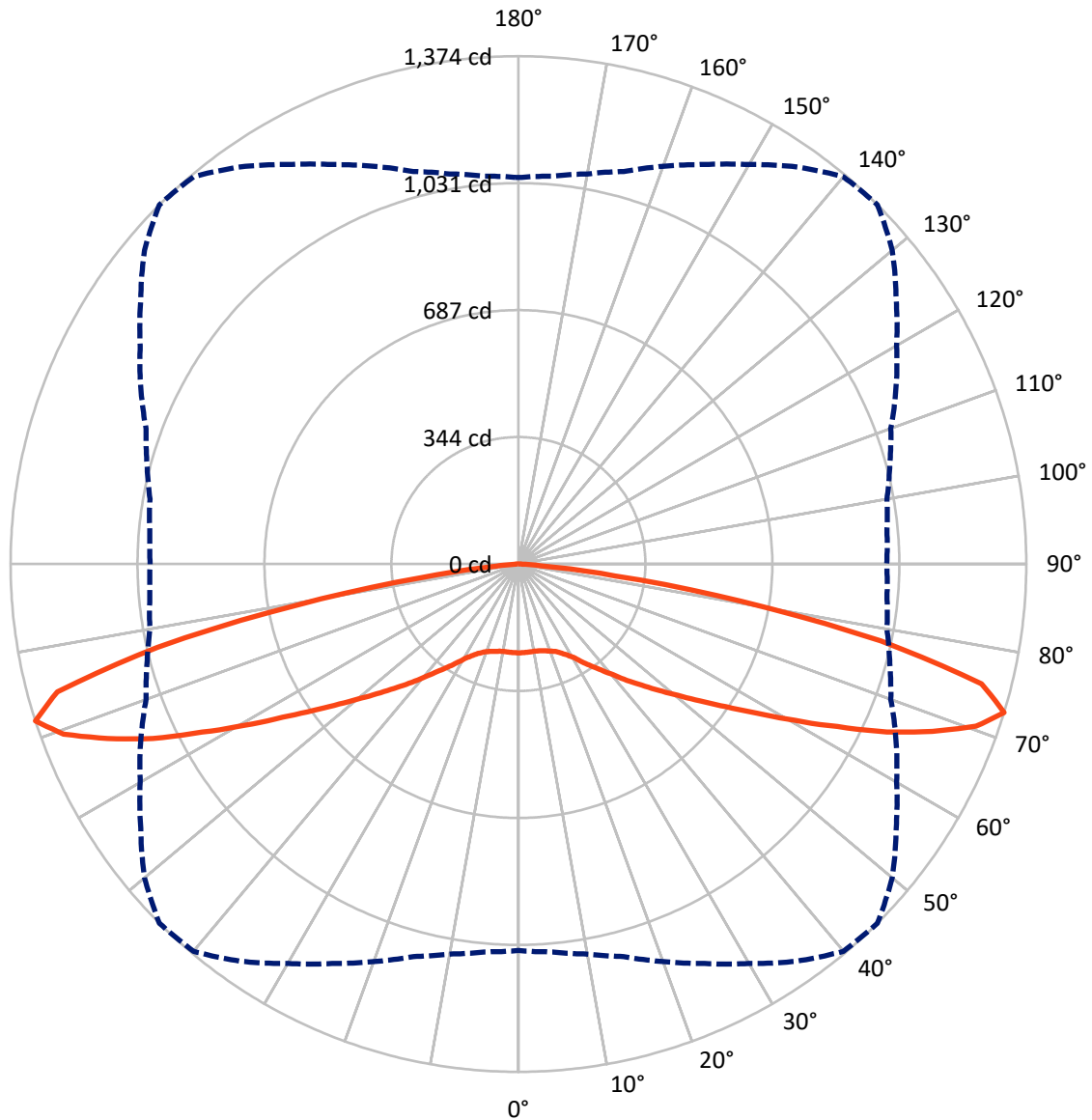


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

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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	1691.5	0.0	1691.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1691.5	0.0	1691.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3383.0	0.0	3383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	0.7
10°-20°	69.5	2.1
20°-30°	125.4	3.7
30°-40°	213.9	6.3
40°-50°	364.2	10.8
50°-60°	586.2	17.3
60°-70°	974.8	28.8
70°-80°	943.0	27.9
80°-90°	83.0	2.5
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°	3383.0	100.0
0°-180°	3383.0	100.0

Coefficient of Utilization



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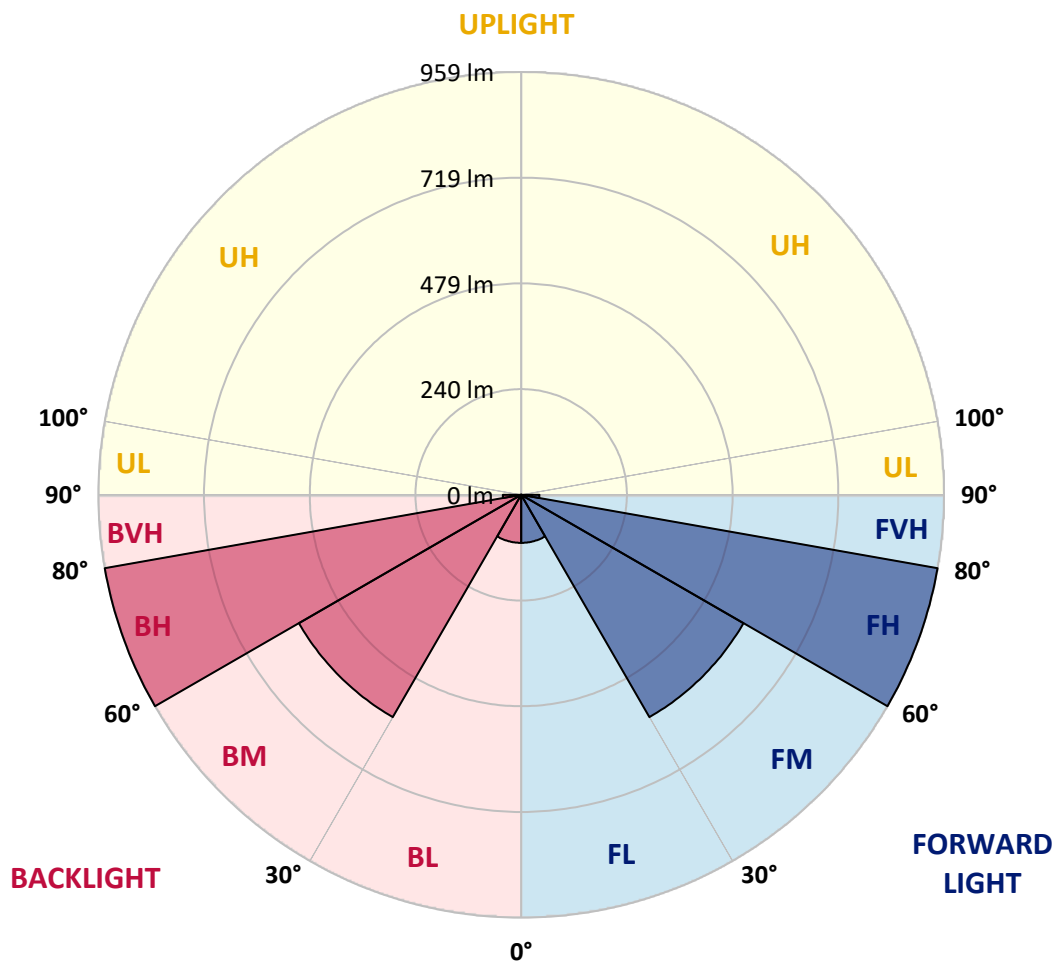
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	108.9	3.2			
FM (30°-60°)	582.2	17.2			
FH (60°-80°)	958.9	28.3			G1/1800
FVH (80°-90°)	41.5	1.2			G1/100
BL (0°-30°)	108.9	3.2	B0/110		
BM (30°-60°)	582.2	17.2	B1/1000		
BH (60°-80°)	958.9	28.3	B2/1000		G1/1800
BVH (80°-90°)	41.5	1.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5
2.5°	242.4	242.4	242.6	242.4	242.0	241.8	241.1	240.7	240.3	240.1	239.7
5°	242.6	242.6	242.8	242.6	242.2	241.8	241.3	240.7	240.3	239.9	239.7
7.5°	243.4	243.6	243.8	243.6	242.8	242.4	241.8	241.1	240.3	239.9	239.5
10°	245.1	245.1	245.1	244.9	244.3	243.4	242.6	242.0	240.9	239.9	239.3
12.5°	246.3	246.5	246.5	246.1	245.3	244.3	243.4	242.8	242.0	241.1	240.5
15°	248.2	248.2	248.0	247.2	245.9	245.1	244.7	244.5	244.3	243.8	243.2
17.5°	252.0	251.8	251.1	249.9	248.4	247.8	247.4	247.4	247.4	247.2	246.8
20°	257.4	257.4	256.5	254.5	253.2	252.6	252.0	252.0	252.0	251.3	250.7
22.5°	266.1	266.3	265.1	262.6	260.9	259.7	258.8	258.2	257.6	257.2	256.1
25°	278.0	277.8	276.3	273.2	271.9	270.7	269.0	268.0	267.2	266.5	265.3
27.5°	290.5	290.3	288.6	285.9	285.1	283.2	281.9	280.5	279.4	278.4	277.2
30°	306.5	305.5	304.2	302.1	301.7	300.3	298.6	296.5	294.9	293.2	291.7
32.5°	320.9	320.9	319.0	318.0	318.8	318.2	318.4	317.1	316.1	315.5	314.0
35°	340.9	340.9	340.0	338.8	339.0	337.5	337.3	337.5	338.4	338.4	336.7
37.5°	367.5	367.9	365.2	364.8	363.8	361.7	360.7	361.1	362.9	364.0	361.7
40°	400.6	401.5	400.6	397.9	396.7	393.1	391.1	391.1	392.5	393.6	392.7
42.5°	433.3	434.8	433.3	431.2	430.2	427.5	426.5	427.3	429.2	430.4	429.2
45°	469.8	470.8	468.9	466.4	465.2	463.7	463.1	463.7	465.8	467.1	466.6
47.5°	505.6	507.0	504.8	503.7	503.7	502.3	503.9	505.6	507.5	510.4	509.1
50°	540.6	542.4	541.0	541.2	542.9	545.6	548.7	552.0	555.3	558.5	558.9
52.5°	571.8	574.7	574.9	578.7	583.9	588.0	596.8	604.1	612.0	614.7	613.4
55°	604.7	608.7	613.9	619.7	628.0	636.6	651.3	664.5	674.9	681.3	680.3
57.5°	651.8	655.7	661.1	670.7	683.2	694.9	715.1	735.5	751.3	761.1	756.3
60°	712.8	716.9	724.0	734.2	750.5	766.3	794.0	823.3	847.9	859.2	850.4
62.5°	793.6	797.5	802.1	815.6	833.8	854.2	888.9	926.6	957.9	968.7	956.4
65°	908.7	913.5	915.0	926.0	943.7	962.6	1000.1	1042.6	1078.2	1095.9	1071.3
67.5°	1038.4	1040.3	1046.1	1059.1	1077.2	1094.2	1123.8	1164.0	1198.2	1207.9	1181.7
70°	1114.4	1118.2	1128.4	1146.3	1168.0	1194.8	1227.1	1270.4	1309.1	1313.7	1280.4
72.5°	1045.7	1053.4	1071.6	1099.5	1144.8	1192.5	1248.1	1312.1	1367.7	1374.1	1320.6
75°	838.8	847.5	869.2	899.8	953.5	1024.3	1104.7	1200.7	1283.9	1294.6	1223.8
77.5°	447.1	457.9	489.3	530.6	607.2	700.9	797.7	907.3	978.1	1002.0	951.0
80°	112.7	118.5	133.7	157.8	209.7	285.3	368.8	486.6	574.5	611.8	574.5
82.5°	43.7	48.1	52.3	55.2	60.2	70.6	97.5	158.9	214.1	263.6	228.2
85°	16.9	17.9	25.8	29.4	29.4	32.3	37.1	43.7	54.1	59.1	49.6
87.5°	6.7	7.3	9.0	13.7	14.2	12.5	13.3	15.0	11.5	9.6	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5
2.5°	239.5	239.3	238.8	239.0	238.8	238.8	238.8	238.8
5°	239.3	239.3	238.8	238.8	238.8	239.0	238.8	238.8
7.5°	239.0	238.8	238.4	238.2	238.2	238.0	238.0	238.0
10°	238.6	238.2	237.8	237.6	237.6	237.2	237.2	237.2
12.5°	239.7	239.0	238.6	238.4	238.4	238.4	238.6	238.6
15°	242.6	241.3	240.7	240.5	240.7	241.1	241.3	241.5
17.5°	245.7	244.5	243.4	243.0	243.2	243.8	244.5	244.9
20°	249.7	248.6	247.4	247.0	247.0	247.8	248.2	248.8
22.5°	255.3	254.5	253.4	252.8	252.4	253.4	254.0	254.5
25°	264.2	263.4	262.6	262.0	261.7	262.8	263.2	263.4
27.5°	276.1	275.3	274.9	274.7	274.0	274.4	275.1	274.9
30°	291.5	292.1	291.5	291.5	290.5	290.9	290.5	290.1
32.5°	312.1	311.5	309.6	308.4	306.9	306.9	306.3	305.7
35°	332.8	330.7	329.6	330.3	329.6	330.0	329.0	328.0
37.5°	357.1	355.9	355.7	357.5	357.1	357.5	357.5	356.1
40°	389.4	388.6	390.0	393.1	394.4	394.2	394.6	392.7
42.5°	426.5	425.0	425.6	428.3	429.8	430.2	430.0	428.3
45°	463.5	463.9	463.9	466.9	468.3	469.1	467.7	467.1
47.5°	505.4	506.0	504.5	506.4	506.8	508.3	507.0	506.0
50°	553.7	551.4	548.1	548.7	548.7	548.3	546.8	545.6
52.5°	607.6	602.4	596.2	594.1	591.8	589.5	586.6	584.3
55°	669.0	660.1	648.8	643.6	639.3	634.1	627.4	625.1
57.5°	740.3	724.8	709.9	700.5	689.2	682.4	673.8	673.4
60°	824.8	804.0	777.5	763.6	752.3	744.2	737.8	735.3
62.5°	922.5	886.6	858.1	843.1	830.0	825.0	816.9	817.9
65°	1022.6	986.2	958.5	946.4	934.1	930.8	923.3	926.0
67.5°	1131.1	1101.1	1070.7	1059.5	1048.2	1044.9	1037.2	1039.5
70°	1228.4	1190.2	1155.7	1133.6	1114.4	1099.0	1089.3	1085.3
72.5°	1247.7	1181.7	1127.4	1072.2	1040.3	1012.4	1001.0	996.6
75°	1121.1	1018.7	941.2	876.4	840.6	800.0	795.6	789.6
77.5°	872.1	755.5	661.8	578.5	530.4	480.8	463.7	450.8
80°	520.2	399.8	309.8	217.2	177.2	142.6	134.1	125.1
82.5°	186.2	119.3	80.4	62.7	56.0	51.6	48.3	43.9
85°	45.0	37.9	35.8	32.5	32.1	27.3	19.4	17.3
87.5°	14.4	13.1	13.3	12.7	13.3	10.0	8.1	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)