

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: P199127

Luminaire Tested: **XNV2-AF-02-LED-U-5MQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199127  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV2-AF-02-LED-U-5MQ-8030  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10479 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 111  
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

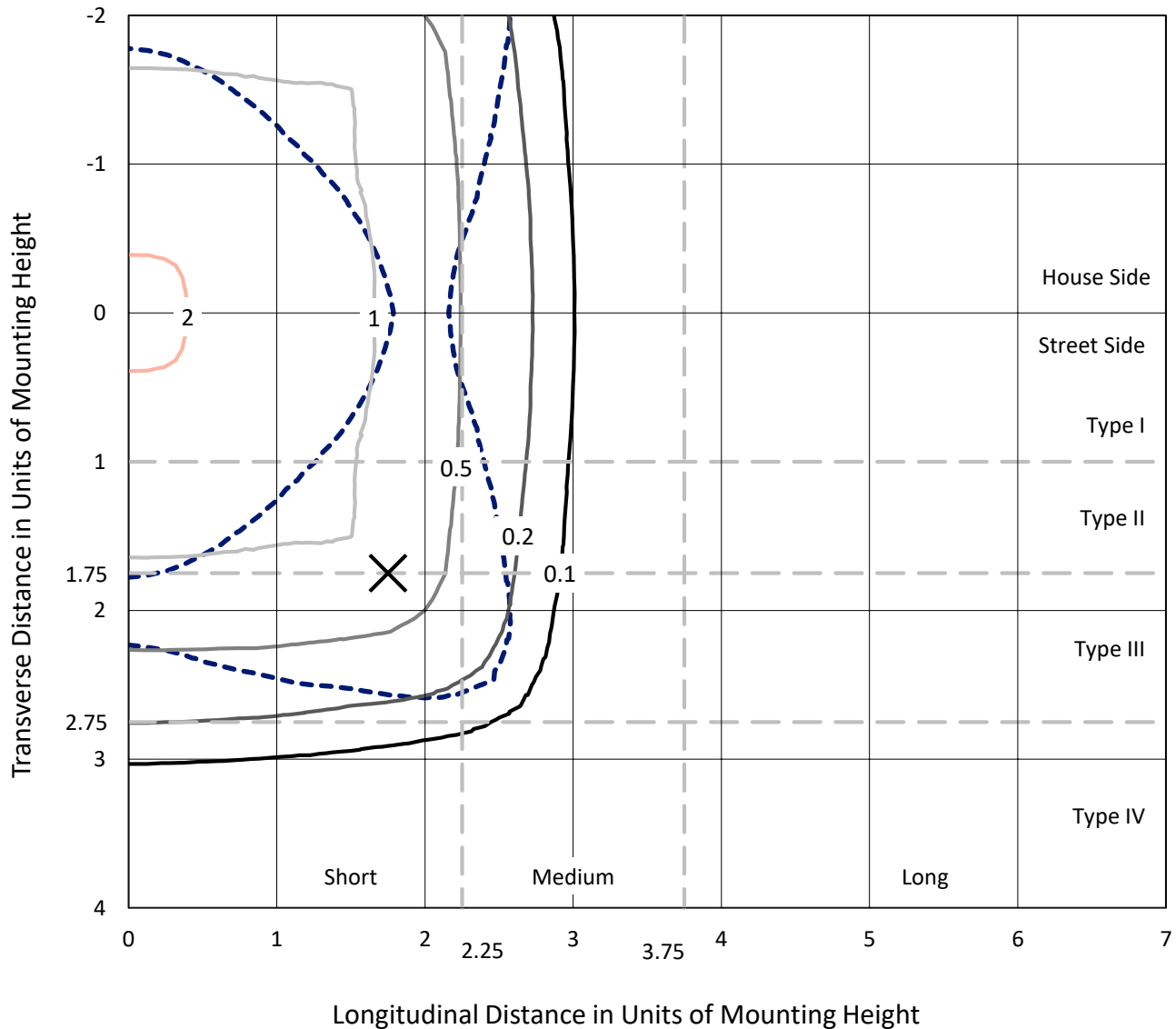


REPORT NUMBER: P199127

CATALOG NUMBER: XNV2-AF-02-LED-U-5MQ-8030

### Iso-Footcandle Lines of Horizontal Illumination

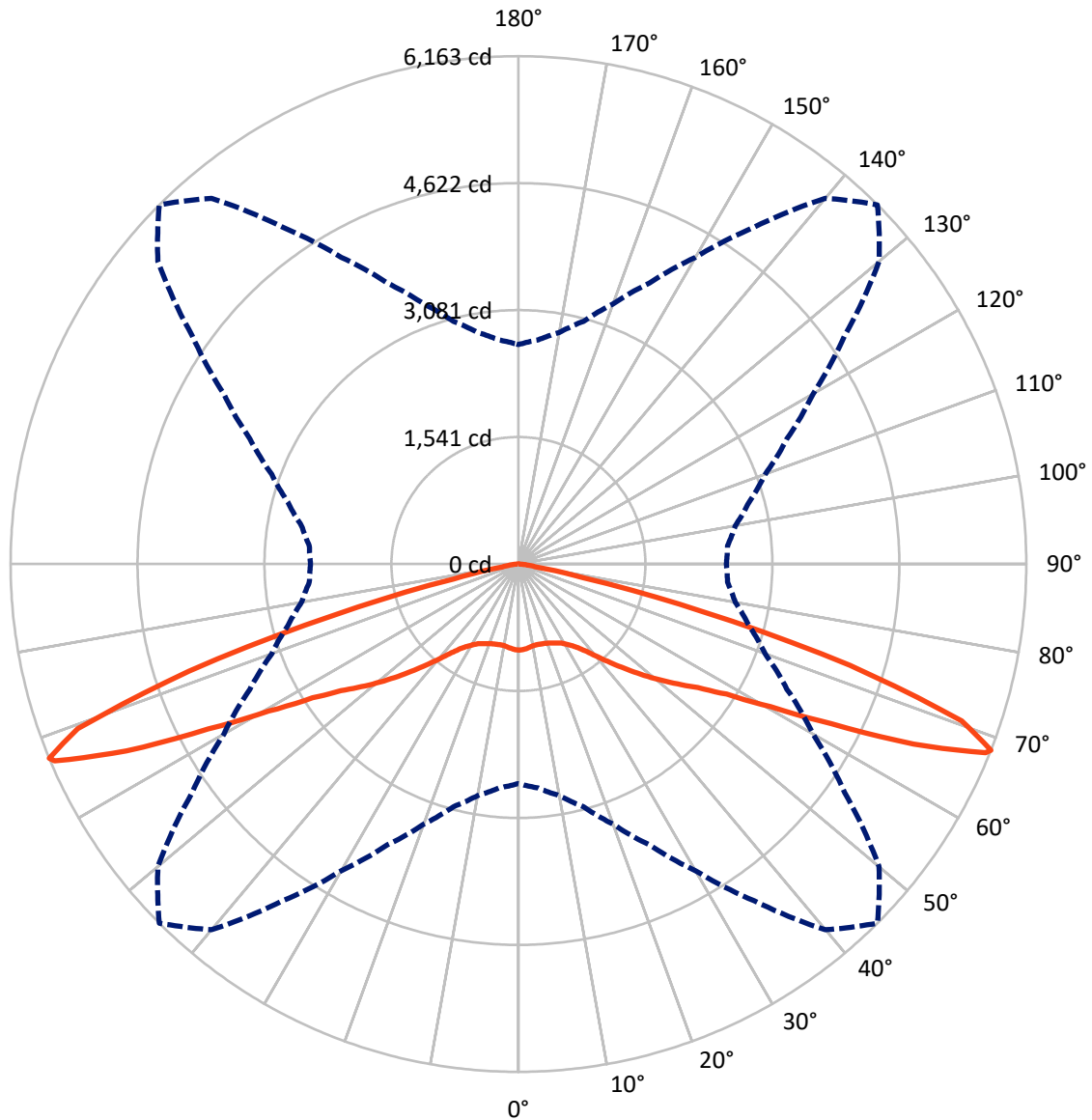
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P199127  
CATALOG NUMBER: XNV2-AF-02-LED-U-5MQ-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P199127

CATALOG NUMBER: XNV2-AF-02-LED-U-5MQ-8030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5239.5	0.0	5239.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5239.5	0.0	5239.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10479.0	0.0	10479.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.8	0.9
10°-20°	283.7	2.7
20°-30°	482.3	4.6
30°-40°	789.2	7.5
40°-50°	1410.5	13.5
50°-60°	2382.1	22.7
60°-70°	3693.7	35.2
70°-80°	1270.0	12.1
80°-90°	69.8	0.7
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°	10479.0	100.0
0°-180°	10479.0	100.0



REPORT NUMBER: P199127

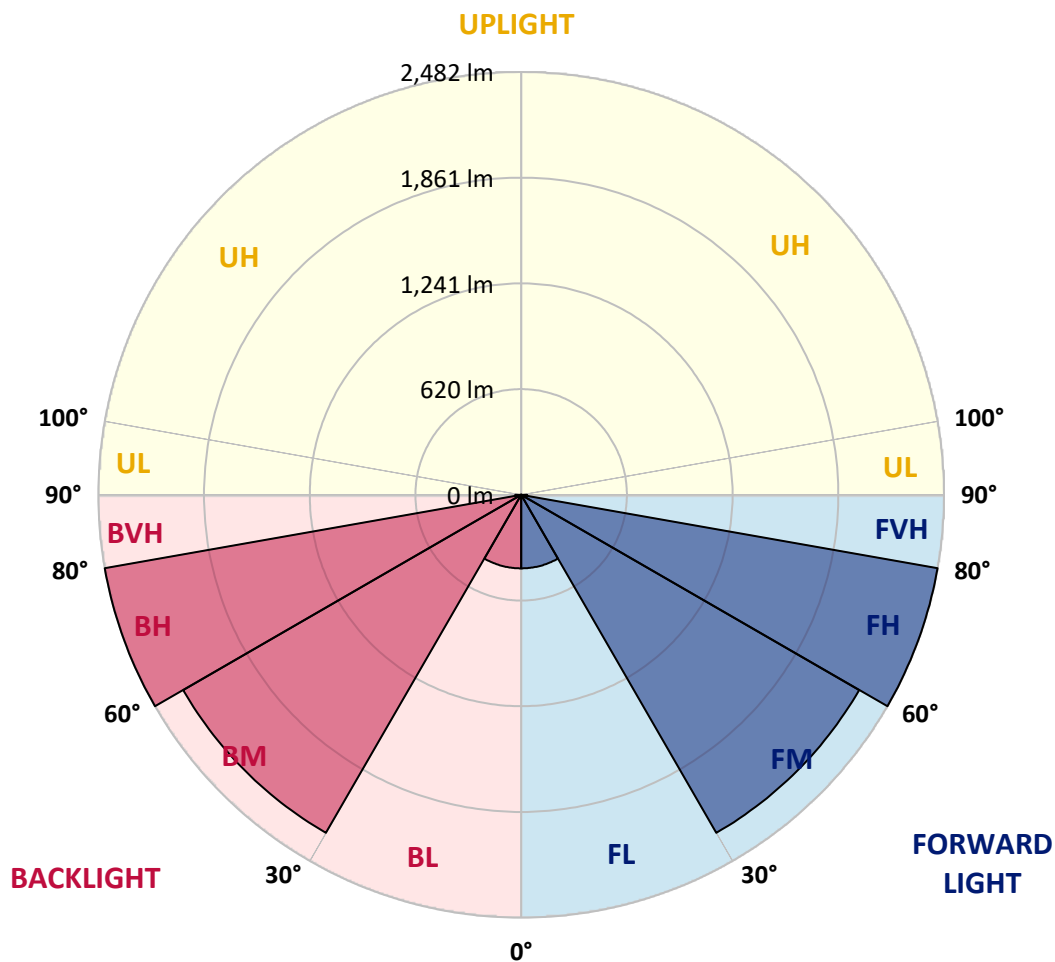
CATALOG NUMBER: XNV2-AF-02-LED-U-5MQ-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	431.9	4.1			
FM	(30°-60°)	2290.9	21.9			
FH	(60°-80°)	2481.8	23.7			G2/5000
FVH	(80°-90°)	34.9	0.3			G1/100
BL	(0°-30°)	431.9	4.1	B1/500		
BM	(30°-60°)	2290.9	21.9	B2/2500		
BH	(60°-80°)	2481.8	23.7	B3/2500		G2/5000
BVH	(80°-90°)	34.9	0.3			G1/100
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







REPORT NUMBER: P199127

CATALOG NUMBER: XNV2-AF-02-LED-U-5MQ-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3
2.5°	1037.6	1038.3	1037.0	1037.0	1037.0	1037.6	1037.0	1036.3
5°	1029.3	1030.6	1030.6	1031.2	1031.8	1031.8	1031.8	1031.8
7.5°	1017.1	1017.7	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0
10°	1005.5	1004.2	1003.6	1002.3	1002.3	1000.4	1001.0	1001.7
12.5°	999.8	997.2	995.9	994.0	992.7	990.8	990.8	991.4
15°	1002.3	998.5	994.6	993.3	992.1	990.8	989.5	990.1
17.5°	1007.5	1003.0	998.5	995.9	993.3	991.4	990.8	991.4
20°	1018.4	1011.9	1004.9	1000.4	995.3	994.0	992.1	994.0
22.5°	1033.1	1025.4	1016.4	1008.1	1002.3	999.8	997.2	999.1
25°	1051.1	1042.7	1033.8	1024.1	1017.7	1015.8	1012.6	1012.6
27.5°	1076.1	1069.1	1061.4	1052.4	1046.0	1044.0	1038.9	1038.9
30°	1115.9	1108.8	1101.8	1094.1	1087.7	1085.7	1079.3	1079.3
32.5°	1168.5	1160.8	1156.3	1149.9	1144.8	1141.6	1133.9	1133.2
35°	1239.1	1232.0	1231.4	1226.9	1221.8	1222.4	1214.7	1213.4
37.5°	1340.5	1334.7	1336.6	1332.8	1328.3	1332.1	1327.7	1327.7
40°	1470.1	1468.2	1470.1	1467.5	1468.2	1468.8	1465.0	1466.3
42.5°	1626.7	1621.5	1633.1	1631.8	1629.9	1635.0	1626.0	1619.6
45°	1807.0	1805.1	1816.6	1818.5	1814.7	1817.9	1801.9	1801.2
47.5°	2002.7	2002.7	2013.0	2011.7	2007.8	2008.5	1989.2	1977.0
50°	2206.8	2205.5	2215.8	2213.2	2208.1	2207.4	2187.5	2175.3
52.5°	2419.2	2419.2	2433.9	2426.9	2414.7	2408.9	2384.5	2368.5
55°	2654.0	2650.8	2655.3	2632.2	2608.5	2591.1	2561.0	2548.8
57.5°	2951.1	2913.9	2881.8	2852.3	2818.9	2798.4	2763.1	2750.3
60°	3372.7	3273.3	3230.3	3171.2	3116.0	3088.4	3041.6	3016.6
62.5°	3956.7	3791.7	3675.0	3544.7	3418.9	3330.4	3259.1	3227.7
65°	4631.7	4272.4	3975.3	3696.1	3459.3	3271.3	3166.7	3134.0
67.5°	4888.4	4228.7	3716.0	3315.6	3028.1	2804.2	2679.1	2652.7
68°	4833.8	4128.6	3596.0	3186.0	2897.2	2671.4	2546.9	2523.1
70°	4264.0	3483.1	2921.0	2512.9	2243.3	2028.4	1940.5	1902.6
72.5°	2906.9	2236.9	1715.9	1372.6	1171.1	1035.0	954.2	926.6
75°	1337.9	904.1	603.8	451.1	383.1	350.4	325.3	318.9
77.5°	390.1	283.6	243.8	225.9	212.4	200.8	192.5	191.9
80°	185.4	173.9	168.8	157.2	145.0	134.1	126.4	127.7
82.5°	124.5	121.3	121.3	109.7	90.5	77.6	64.2	57.8
85°	66.1	68.7	72.5	68.7	59.7	44.3	28.9	31.4
87.5°	22.5	25.7	27.0	26.3	23.7	18.0	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)