

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: P199207

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)
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-SL4-8030-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8016 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - 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

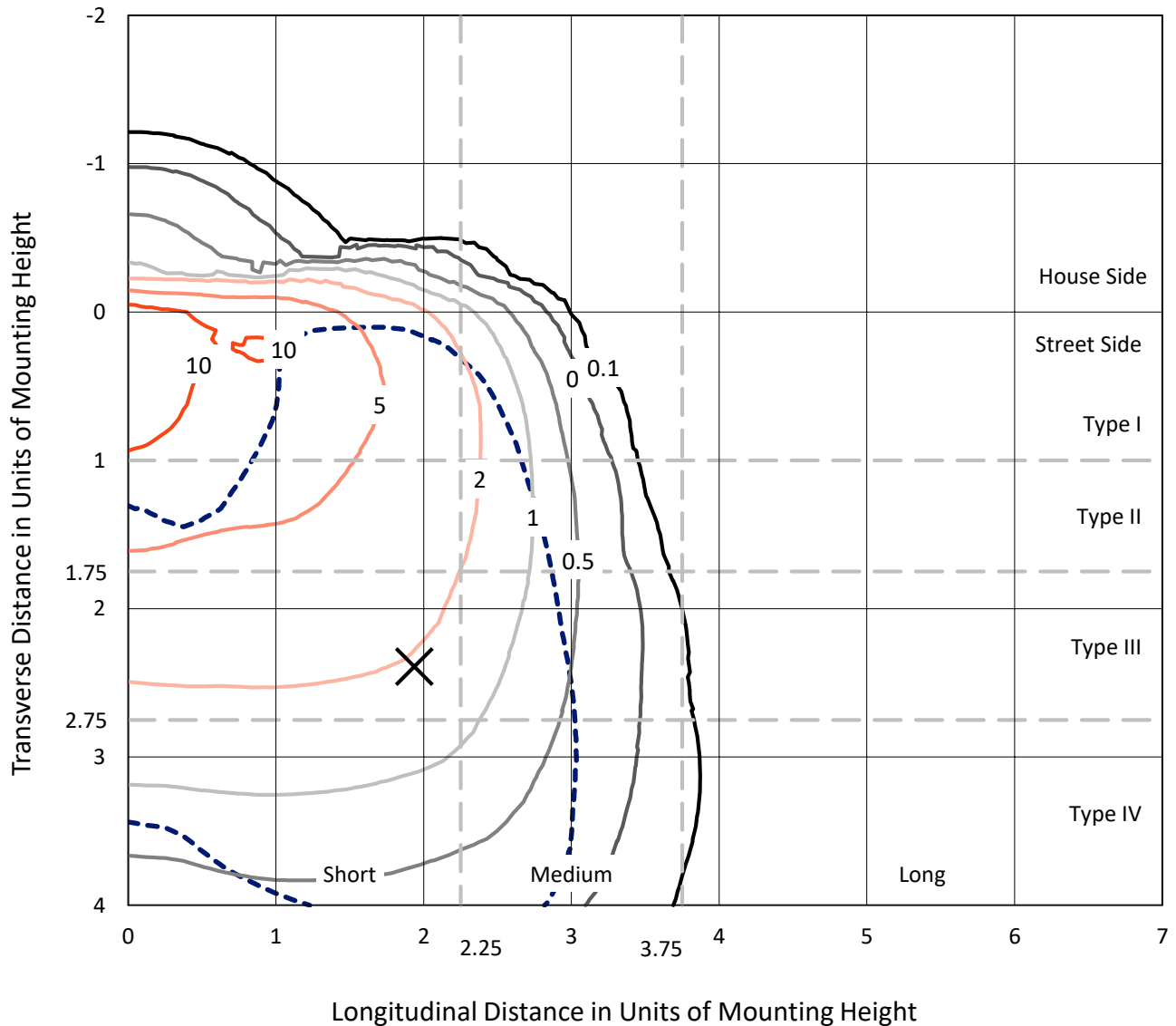


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

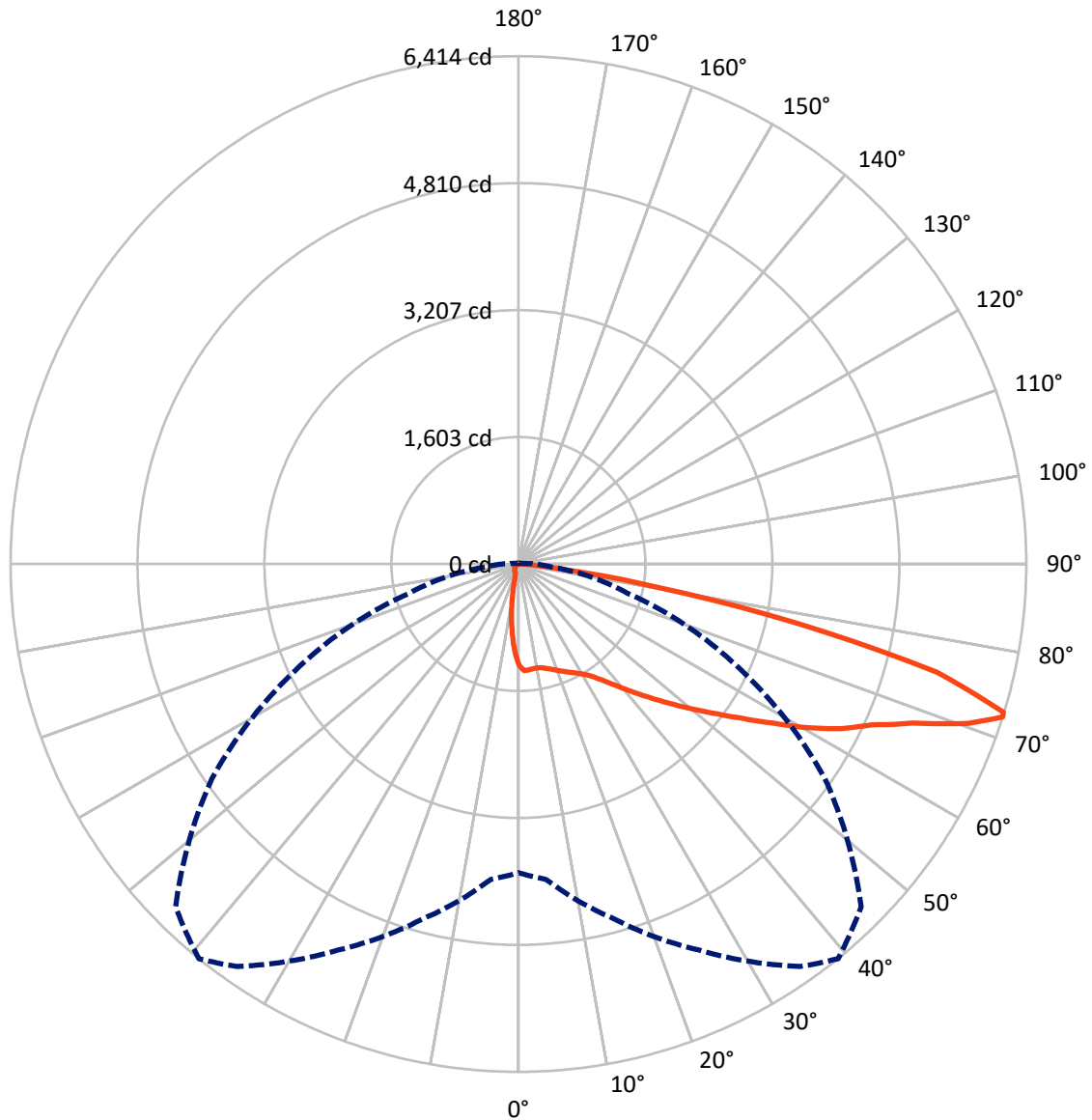


Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	525.4	0.0	525.4
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	7490.6	0.0	7490.6
	% Fixture	93.4	0.0	93.4
Total	Lumens	8016.0	0.0	8016.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	1.3
10°-20°	252.7	3.2
20°-30°	419.6	5.2
30°-40°	668.8	8.3
40°-50°	1103.9	13.8
50°-60°	1667.1	20.8
60°-70°	2171.6	27.1
70°-80°	1467.4	18.3
80°-90°	160.7	2.0
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°	8016.0	100.0
0°-180°	8016.0	100.0



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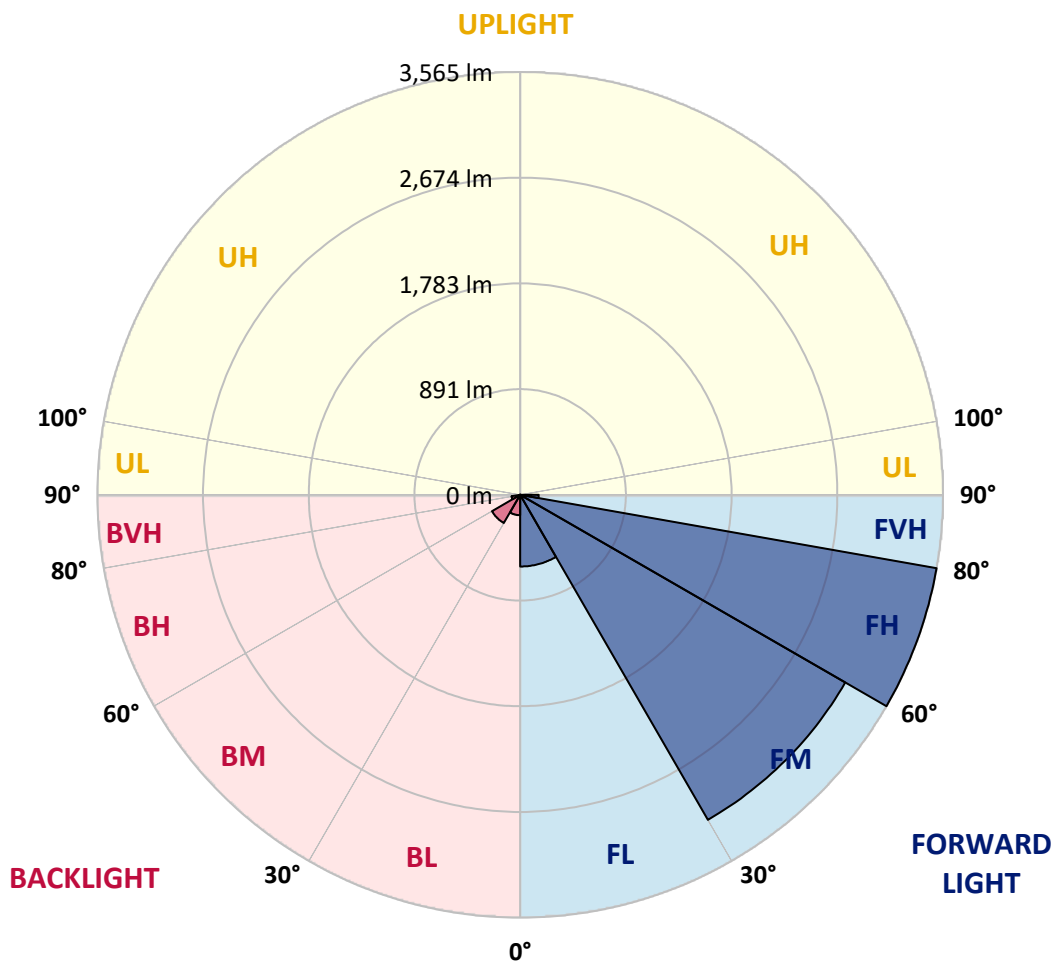
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	604.6	7.5			
FM	(30°-60°)	3164.8	39.5			
FH	(60°-80°)	3565.1	44.5			G2/5000
FVH	(80°-90°)	156.1	1.9			G2/225
BL	(0°-30°)	172.0	2.1	B1/500		
BM	(30°-60°)	274.9	3.4	B1/1000		
BH	(60°-80°)	73.8	0.9	B0/110		G0/110
BVH	(80°-90°)	4.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

Table with 12 columns (0° to 85°) and 26 rows (0° to 90°) showing candela distribution data. Values are color-coded: black for baseline, red for highlights, and orange for peaks.



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0
2.5°	1257.8	1249.6	1223.8	1197.9	1168.3	1141.2	1119.8	1105.9	1112.2	1091.4	1094.6
5°	1221.9	1201.1	1144.4	1083.3	1017.1	955.3	906.2	869.6	862.7	831.2	832.4
7.5°	1187.2	1153.2	1061.2	960.4	850.7	761.9	681.2	610.6	585.4	559.6	544.5
10°	1168.3	1121.7	991.2	844.4	690.0	559.6	446.2	357.3	320.1	293.0	279.8
12.5°	1174.0	1112.2	938.9	739.2	536.3	370.5	252.1	187.2	164.5	151.9	147.5
15°	1192.9	1114.1	891.7	636.5	390.1	224.3	148.1	126.7	124.8	124.1	123.5
17.5°	1210.5	1116.0	841.9	529.3	260.9	143.0	119.1	117.2	117.2	117.2	117.2
20°	1228.8	1116.6	787.1	417.2	171.4	117.2	112.2	110.9	112.2	112.2	112.2
22.5°	1250.2	1121.1	734.1	308.1	126.7	110.3	107.1	106.5	107.1	107.1	106.5
25°	1276.7	1130.5	676.8	220.6	114.7	105.9	102.7	102.1	102.7	102.1	102.1
27.5°	1312.0	1143.1	610.0	158.2	109.6	101.5	98.3	98.3	98.3	97.7	97.7
30°	1357.4	1158.2	520.5	124.8	104.6	97.0	94.5	94.5	93.9	93.3	93.3
32.5°	1422.3	1182.8	422.8	112.8	98.9	91.4	88.9	89.5	88.9	88.2	87.6
35°	1514.3	1221.3	326.4	106.5	93.3	85.7	83.2	83.2	83.2	81.9	81.9
37.5°	1644.7	1279.9	244.5	100.2	87.6	80.0	76.9	76.9	76.2	75.0	75.6
40°	1806.0	1353.6	177.1	94.5	81.9	73.7	71.2	69.9	68.7	67.4	67.4
42.5°	2000.1	1425.4	133.0	88.9	76.2	68.7	65.5	64.3	61.8	60.5	59.9
45°	2217.5	1501.7	110.3	81.9	69.9	63.0	60.5	58.0	54.8	52.9	52.3
47.5°	2400.9	1548.3	98.3	75.0	63.6	57.3	54.8	51.0	47.3	46.0	46.0
50°	2511.2	1528.8	88.2	68.1	57.3	51.7	48.5	43.5	41.0	39.7	39.1
52.5°	2573.0	1470.8	80.0	62.4	51.7	45.4	41.0	36.5	35.3	34.0	34.0
55°	2615.2	1387.0	71.2	56.7	46.6	39.7	34.7	31.5	30.2	29.6	29.0
57.5°	2655.5	1284.9	63.0	51.7	41.6	35.3	29.6	28.4	25.8	25.2	25.2
60°	2667.5	1144.4	55.5	46.0	37.2	30.9	25.8	23.9	21.4	20.8	20.8
62.5°	2515.0	910.6	49.2	39.1	32.8	26.5	22.7	20.2	17.6	17.6	17.6
65°	2101.6	618.2	42.2	34.0	29.0	22.7	19.5	16.4	15.1	15.1	15.1
67.5°	1463.9	344.7	35.9	29.0	24.6	18.9	16.4	13.9	13.2	13.9	13.9
70°	659.8	136.7	30.2	23.9	20.2	15.8	13.9	12.0	13.2	13.2	13.2
72°	197.9	73.1	25.2	19.5	16.4	13.9	12.0	11.3	12.6	13.2	13.2
72.5°	146.8	65.5	23.9	18.9	16.4	13.2	11.3	11.3	12.6	13.2	13.2
75°	75.6	44.7	18.3	13.9	12.0	10.7	9.5	10.7	12.6	12.6	12.6
77.5°	59.2	36.5	15.1	10.7	10.1	9.5	8.8	10.1	11.3	11.3	11.3
80°	55.5	23.9	12.0	10.1	8.8	8.2	8.2	8.8	10.1	10.7	10.7
82.5°	56.1	19.5	10.7	9.5	8.2	7.6	7.6	8.2	9.5	10.1	10.1
85°	35.9	13.2	9.5	8.2	7.6	6.9	6.9	7.6	8.8	9.5	9.5
87.5°	12.0	10.1	8.2	7.6	6.3	6.3	6.3	6.3	7.6	8.2	8.8
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)