

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: METALUX

Report Number: P567502

Luminaire Tested: **8SNX-168HL-LC-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

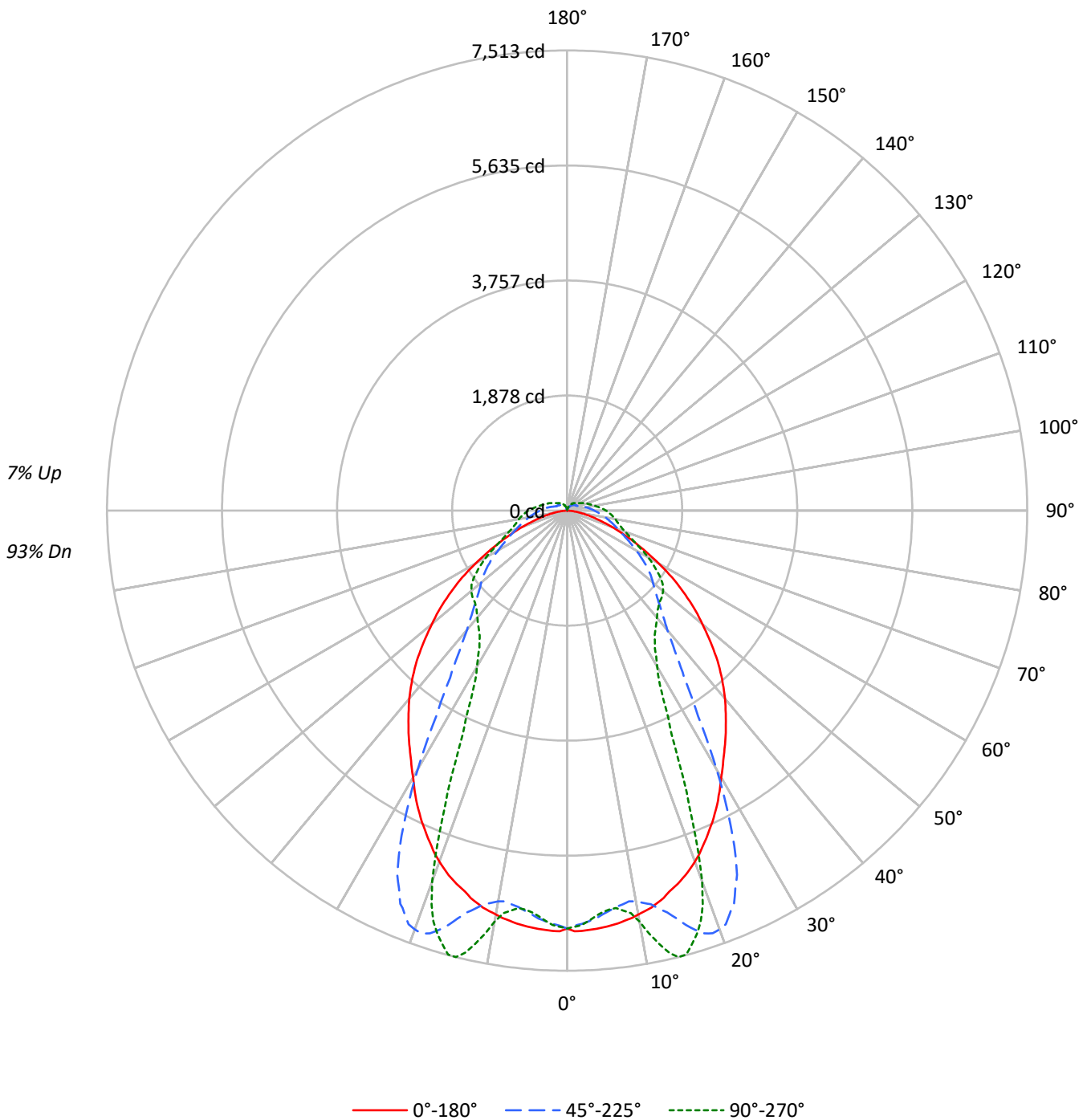
Test Method: LM-79-08  
Report Number: P567502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-168HL-LC-UNV-L930-CD  
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15164.0 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 115.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	36722	36722	36722
5°	36832	34314	33613
10°	36458	32619	33332
15°	35676	33966	35484
20°	34665	35411	29698
25°	32993	31774	18260
30°	30894	23672	13215
35°	29191	16342	11148
40°	27673	12685	10274
45°	25894	10802	9717
50°	23550	9697	9539
55°	21075	8770	8825
60°	17871	7590	7634
65°	14536	6611	6371
70°	11405	5943	5610
75°	8844	5525	5231
80°	6226	5233	5178
85°	3466	4993	5141



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	634.9	4.2
10°-20°	1940.0	12.8
20°-30°	2612.3	17.2
30°-40°	2472.3	16.3
40°-50°	2182.1	14.4
50°-60°	1772.4	11.7
60°-70°	1205.4	7.9
70°-80°	775.6	5.1
80°-90°	515.7	3.4
90°-100°	354.4	2.3
100°-110°	237.9	1.6
110°-120°	167.8	1.1
120°-130°	119.9	0.8
130°-140°	84.6	0.6
140°-150°	52.5	0.3
150°-160°	25.6	0.2
160°-170°	9.0	0.1
170°-180°	1.6	0.0
0°-30°	5187.2	34.2
0°-40°	7659.5	50.5
0°-60°	11614.0	76.6
0°-90°	14110.7	93.1
90°-120°	760.2	5.0
90°-150°	1017.2	6.7
90°-180°	1053.0	6.9
0°-180°	15164.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6823	6823	6823	6823	6823	
5°	6830	6768	6622	6617	6585	648
15°	6439	6397	6890	7499	7506	1815
25°	5610	6652	6564	4767	4031	2574
35°	4508	6325	3334	2568	2489	2821
45°	3473	4255	2109	2084	2128	2666
55°	2313	2517	1584	1769	1836	2066
65°	1192	1357	1060	1178	1216	1197
75°	458	641	748	838	878	499
85°	70	273	530	671	718	91
90°	2	190	442	595	634	4
95°	2	146	373	505	540	2
105°	5	102	245	345	387	5
115°	5	88	181	257	289	5
125°	7	74	155	194	208	6
135°	9	58	127	162	171	7
145°	9	42	90	125	137	6
155°	12	26	56	83	95	5
165°	12	16	30	42	51	3
175°	14	14	14	14	12	1
180°	12	12	12	12	12	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6823.1	6823.1	6823.1	6823.1	6823.1
1°	6869.4	6848.5	6779.1	6816.1	6797.6
2°	6867.0	6832.3	6753.6	6795.3	6772.1
3°	6855.5	6818.4	6716.6	6742.0	6707.3
4°	6843.9	6799.9	6677.2	6677.2	6637.8
5°	6830.0	6767.5	6621.6	6617.0	6584.6
6°	6813.8	6742.0	6573.0	6568.4	6549.9
7°	6790.6	6698.0	6519.8	6552.2	6538.3
8°	6762.9	6656.4	6492.0	6573.0	6593.8
9°	6737.4	6605.4	6459.6	6637.8	6654.0
10°	6695.7	6559.1	6480.4	6767.5	6816.1
11°	6661.0	6519.8	6526.7	6894.8	7040.7
12°	6626.3	6478.1	6570.7	7054.6	7232.9
13°	6568.4	6445.7	6667.9	7228.2	7411.1
14°	6517.4	6420.2	6762.9	7404.2	7513.0
15°	6438.7	6397.0	6890.2	7499.1	7506.1
16°	6385.5	6380.8	7038.4	7506.1	7376.4
17°	6325.3	6373.9	7158.8	7385.7	7232.9
18°	6258.1	6387.8	7258.3	7235.2	7059.2
19°	6181.7	6401.7	7300.0	7026.8	6799.9
20°	6098.4	6422.5	7276.8	6809.2	6443.4
21°	6015.0	6450.3	7232.9	6580.0	5975.7
22.5°	5859.9	6517.4	7024.5	5936.3	5202.4
23°	5815.9	6531.3	6975.9	5734.9	5000.9
24°	5707.1	6589.2	6753.6	5264.9	4468.4
25°	5609.9	6651.7	6563.7	4767.1	4030.9
26°	5501.0	6698.0	6276.7	4308.7	3762.3
27°	5394.5	6725.8	5950.2	3952.1	3461.3
28°	5271.8	6755.9	5596.0	3644.2	3234.4
29°	5156.1	6760.5	5246.4	3398.8	3056.1
30°	5031.0	6737.4	4878.2	3202.0	2945.0
32.5°	4757.8	6610.0	3977.6	2826.9	2667.2
35°	4507.8	6325.3	3334.0	2567.6	2488.9
37.5°	4255.4	5876.1	2882.5	2405.5	2380.1
40°	4007.7	5343.6	2542.1	2275.9	2280.5
42.5°	3746.1	4794.9	2308.3	2169.4	2190.2
45°	3472.9	4255.4	2109.2	2083.7	2127.7
47.5°	3169.6	3762.3	1951.8	2028.2	2095.3
50°	2882.5	3273.8	1829.1	1974.9	2044.4
52.5°	2609.3	2873.2	1717.9	1884.6	1965.7
55°	2312.9	2516.7	1583.6	1768.9	1836.0
57.5°	2030.5	2194.9	1442.4	1625.3	1685.5
60°	1720.2	1877.7	1298.9	1470.2	1528.1
62.5°	1440.1	1606.8	1176.1	1315.1	1361.4
65°	1192.4	1356.7	1060.4	1178.5	1215.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	972.4	1148.4	965.5	1065.0	1099.7
70°	766.3	951.6	882.1	972.4	1009.5
72.5°	599.7	787.2	812.7	896.0	933.0
75°	458.4	641.3	747.8	838.1	877.5
77.5°	340.3	523.2	687.6	791.8	833.5
80°	224.6	416.7	634.4	750.1	798.8
82.5°	141.2	335.7	581.1	708.5	759.4
85°	69.5	273.2	530.2	671.4	717.7
87.5°	23.2	226.9	483.9	634.4	673.7
90°	2.3	189.9	442.2	595.0	634.4
92.5°	2.3	164.4	407.5	548.7	588.1
95°	2.3	145.9	372.8	504.7	539.5
97.5°	2.3	132.0	340.3	458.4	495.5
100°	2.3	118.1	305.6	414.4	453.8
102.5°	4.6	108.8	275.5	377.4	419.1
105°	4.6	101.9	245.4	345.0	386.6
107.5°	4.6	97.2	219.9	319.5	358.9
110°	4.6	92.6	201.4	296.4	338.0
112.5°	4.6	90.3	189.9	275.5	314.9
115°	4.6	88.0	180.6	257.0	289.4
117.5°	6.9	85.7	173.6	238.5	263.9
120°	6.9	81.0	169.0	222.3	243.1
122.5°	6.9	76.4	162.1	208.4	224.6
125°	6.9	74.1	155.1	194.5	208.4
127.5°	6.9	69.5	148.2	182.9	196.8
130°	9.3	64.8	141.2	173.6	185.2
132.5°	9.3	60.2	134.3	169.0	178.3
135°	9.3	57.9	127.3	162.1	171.3
137.5°	9.3	53.3	120.4	155.1	164.4
140°	9.3	48.6	111.1	145.9	155.1
142.5°	9.3	46.3	101.9	136.6	145.9
145°	9.3	41.7	90.3	125.0	136.6
147.5°	11.6	39.4	81.0	115.8	125.0
150°	11.6	34.7	71.8	106.5	115.8
152.5°	11.6	30.1	62.5	94.9	104.2
155°	11.6	25.5	55.6	83.3	94.9
157.5°	11.6	23.2	48.6	69.5	83.3
160°	11.6	20.8	41.7	60.2	71.8
162.5°	11.6	18.5	37.0	50.9	62.5
165°	11.6	16.2	30.1	41.7	50.9
167.5°	13.9	16.2	25.5	32.4	41.7
170°	13.9	16.2	20.8	25.5	32.4
172.5°	13.9	13.9	16.2	18.5	20.8
175°	13.9	13.9	13.9	13.9	11.6
177.5°	13.9	13.9	13.9	11.6	11.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	11.6	11.6	11.6	11.6	11.6

(END OF REPORT)