

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: P567701

Luminaire Tested: **8SNX-200HL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-200HL-LN-UNV-L850-CD  
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

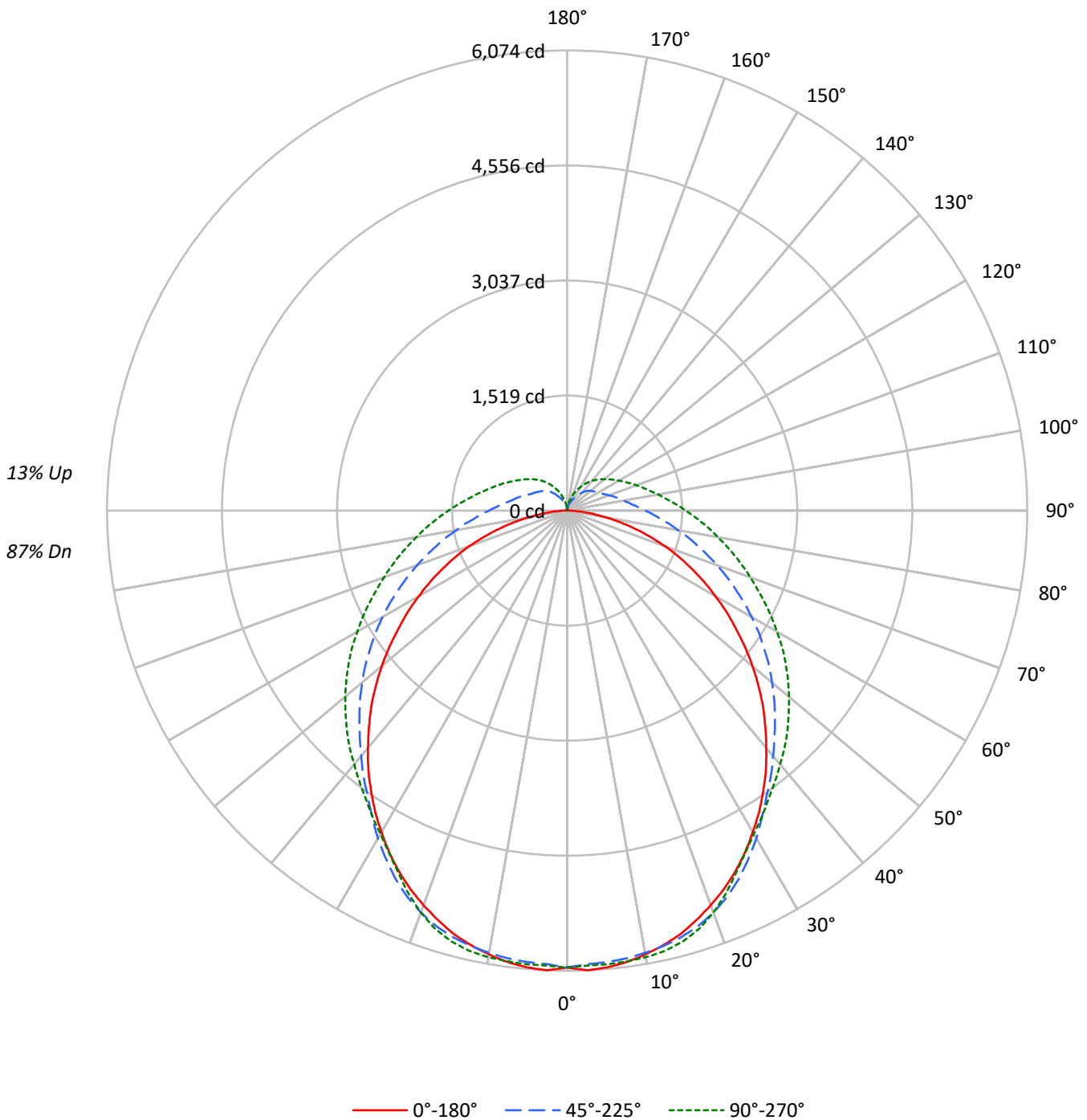
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21768.0 lumens  
Efficiency: N/A  
Efficacy: 150.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 145  
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

TEST NUMBER: P567701

CATALOG NUMBER: 8SNX-200HL-LN-UNV-L850-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P567701

CATALOG NUMBER: 8SNX-200HL-LN-UNV-L850-CD

**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	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87				
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68				
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56				
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46				
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39				
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34				
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29				
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26				
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23				
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21				
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19				

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

	0°	45°	90°
0°	32454	32454	32454
5°	32638	31000	30688
10°	32392	29833	29272
15°	32063	28726	27844
20°	31508	27477	26024
25°	30907	25958	23890
30°	30095	24247	22108
35°	29227	22503	20779
40°	28234	21104	19702
45°	27268	19864	18774
50°	26110	18723	17839
55°	24749	17577	16923
60°	23464	16433	15965
65°	22043	15278	15087
70°	20433	14197	14294
75°	17872	13143	13641
80°	14524	12238	13087
85°	10494	11609	12769



TEST NUMBER: P567701

CATALOG NUMBER: 8SNX-200HL-LN-UNV-L850-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	572.9	2.6
10°-20°	1647.0	7.6
20°-30°	2452.5	11.3
30°-40°	2893.9	13.3
40°-50°	3018.0	13.9
50°-60°	2836.2	13.0
60°-70°	2395.1	11.0
70°-80°	1809.7	8.3
80°-90°	1247.5	5.7
90°-100°	873.0	4.0
100°-110°	651.4	3.0
110°-120°	491.1	2.3
120°-130°	366.3	1.7
130°-140°	257.1	1.2
140°-150°	155.4	0.7
150°-160°	74.3	0.3
160°-170°	23.8	0.1
170°-180°	2.8	0.0
0°-30°	4672.4	21.5
0°-40°	7566.3	34.8
0°-60°	13420.5	61.7
0°-90°	18872.8	86.7
90°-120°	2015.5	9.3
90°-150°	2794.3	12.8
90°-180°	2895.0	13.3
0°-180°	21768.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6030	6030	6030	6030	6030	
5°	6052	6041	5982	6026	6012	574
15°	5787	5812	5827	5901	5890	1629
25°	5255	5362	5362	5314	5274	2418
35°	4513	4679	4591	4628	4639	2822
45°	3657	3838	3879	4037	4111	2816
55°	2716	2949	3174	3428	3521	2437
65°	1808	2096	2450	2772	2878	1796
75°	926	1284	1779	2152	2288	986
85°	210	661	1233	1638	1782	236
90°	4	469	1030	1424	1565	15
95°	4	365	871	1247	1376	3
105°	7	262	672	974	1085	7
115°	7	225	520	775	875	8
125°	11	192	439	635	716	10
135°	11	148	365	517	579	9
145°	15	107	255	395	443	8
155°	15	70	155	251	292	7
165°	18	44	81	111	148	5
175°	18	18	22	22	11	2
180°	11	11	11	11	11	



TEST NUMBER: P567701

CATALOG NUMBER: 8SNX-200HL-LN-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6030.1	6030.1	6030.1	6030.1	6030.1
2.5°	6074.4	6059.7	5993.2	6030.1	6011.7
5°	6052.3	6041.2	5982.2	6026.4	6011.7
7.5°	6011.7	6008.0	5963.7	6015.4	6000.6
10°	5949.0	5960.0	5926.8	5996.9	5985.9
12.5°	5875.1	5897.3	5886.2	5963.7	5952.6
15°	5786.6	5812.4	5827.2	5901.0	5889.9
17.5°	5668.5	5716.5	5749.7	5808.7	5790.3
20°	5543.0	5609.4	5646.3	5675.9	5646.3
22.5°	5406.5	5495.0	5517.2	5502.4	5472.9
25°	5255.2	5362.2	5362.2	5314.2	5273.6
27.5°	5085.4	5218.2	5181.3	5126.0	5092.8
30°	4900.9	5059.6	4996.8	4934.1	4926.7
32.5°	4716.4	4882.4	4790.2	4775.4	4786.5
35°	4513.4	4679.4	4590.9	4627.8	4638.9
37.5°	4310.4	4476.5	4417.4	4472.8	4506.0
40°	4089.0	4266.1	4229.2	4328.9	4373.1
42.5°	3871.2	4055.8	4052.1	4181.2	4247.7
45°	3657.2	3838.0	3878.6	4037.3	4111.1
47.5°	3424.7	3609.2	3708.9	3893.4	3967.2
50°	3195.9	3395.2	3531.7	3738.4	3823.3
52.5°	2959.7	3170.1	3358.3	3587.1	3675.7
55°	2716.1	2948.6	3173.8	3428.4	3520.7
57.5°	2498.4	2734.6	3000.3	3262.3	3369.4
60°	2258.5	2520.6	2812.1	3088.9	3195.9
62.5°	2040.8	2310.2	2635.0	2926.5	3040.9
65°	1808.3	2096.2	2450.4	2771.5	2878.5
67.5°	1594.3	1889.5	2277.0	2601.7	2719.8
70°	1372.8	1686.5	2107.2	2450.4	2572.2
72.5°	1144.0	1476.2	1937.5	2302.8	2428.3
75°	926.3	1284.3	1778.8	2151.5	2288.1
77.5°	723.3	1099.7	1634.9	2018.7	2151.5
80°	524.0	933.7	1483.5	1882.1	2018.7
82.5°	346.9	789.7	1361.8	1760.3	1904.3
85°	210.4	660.6	1232.6	1638.5	1782.5
87.5°	96.0	553.6	1129.3	1531.5	1671.8
90°	3.7	468.7	1029.6	1424.5	1564.7
92.5°	3.7	409.6	948.4	1332.2	1468.8
95°	3.7	365.4	870.9	1247.4	1376.5
97.5°	3.7	335.8	811.9	1166.2	1291.6
100°	3.7	306.3	752.8	1092.4	1221.5
102.5°	7.4	280.5	708.6	1025.9	1147.7
105°	7.4	262.0	671.7	974.3	1085.0
107.5°	7.4	250.9	631.1	922.6	1025.9
110°	7.4	239.9	586.8	870.9	974.3



TEST NUMBER: P567701

CATALOG NUMBER: 8SNX-200HL-LN-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	7.4	232.5	553.6	826.7	926.3
115°	7.4	225.1	520.3	775.0	874.6
117.5°	7.4	221.4	501.9	734.4	830.3
120°	11.1	210.4	479.8	697.5	789.7
122.5°	11.1	199.3	457.6	668.0	749.2
125°	11.1	191.9	439.2	634.8	715.9
127.5°	11.1	180.8	420.7	605.2	679.0
130°	11.1	169.8	405.9	575.7	645.8
132.5°	11.1	158.7	387.5	546.2	612.6
135°	11.1	147.6	365.4	516.7	579.4
137.5°	11.1	136.5	343.2	487.1	546.2
140°	11.1	125.5	313.7	457.6	513.0
142.5°	11.1	114.4	284.2	428.1	476.1
145°	14.8	107.0	254.6	394.9	442.8
147.5°	14.8	96.0	225.1	361.7	402.3
150°	14.8	88.6	203.0	328.4	365.4
152.5°	14.8	77.5	180.8	291.5	328.4
155°	14.8	70.1	155.0	250.9	291.5
157.5°	14.8	62.7	132.9	210.4	254.6
160°	14.8	59.0	114.4	173.4	217.7
162.5°	18.5	51.7	96.0	140.2	180.8
165°	18.5	44.3	81.2	110.7	147.6
167.5°	18.5	36.9	66.4	84.9	114.4
170°	18.5	29.5	51.7	59.0	88.6
172.5°	18.5	22.1	36.9	40.6	44.3
175°	18.5	18.5	22.1	22.1	11.1
177.5°	18.5	18.5	14.8	11.1	3.7
180°	11.1	11.1	11.1	11.1	11.1

(END OF REPORT)