

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: P567507

Luminaire Tested: **8SNX-168HL-LN-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567507  
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-168HL-LN-UNV-L835-CD  
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

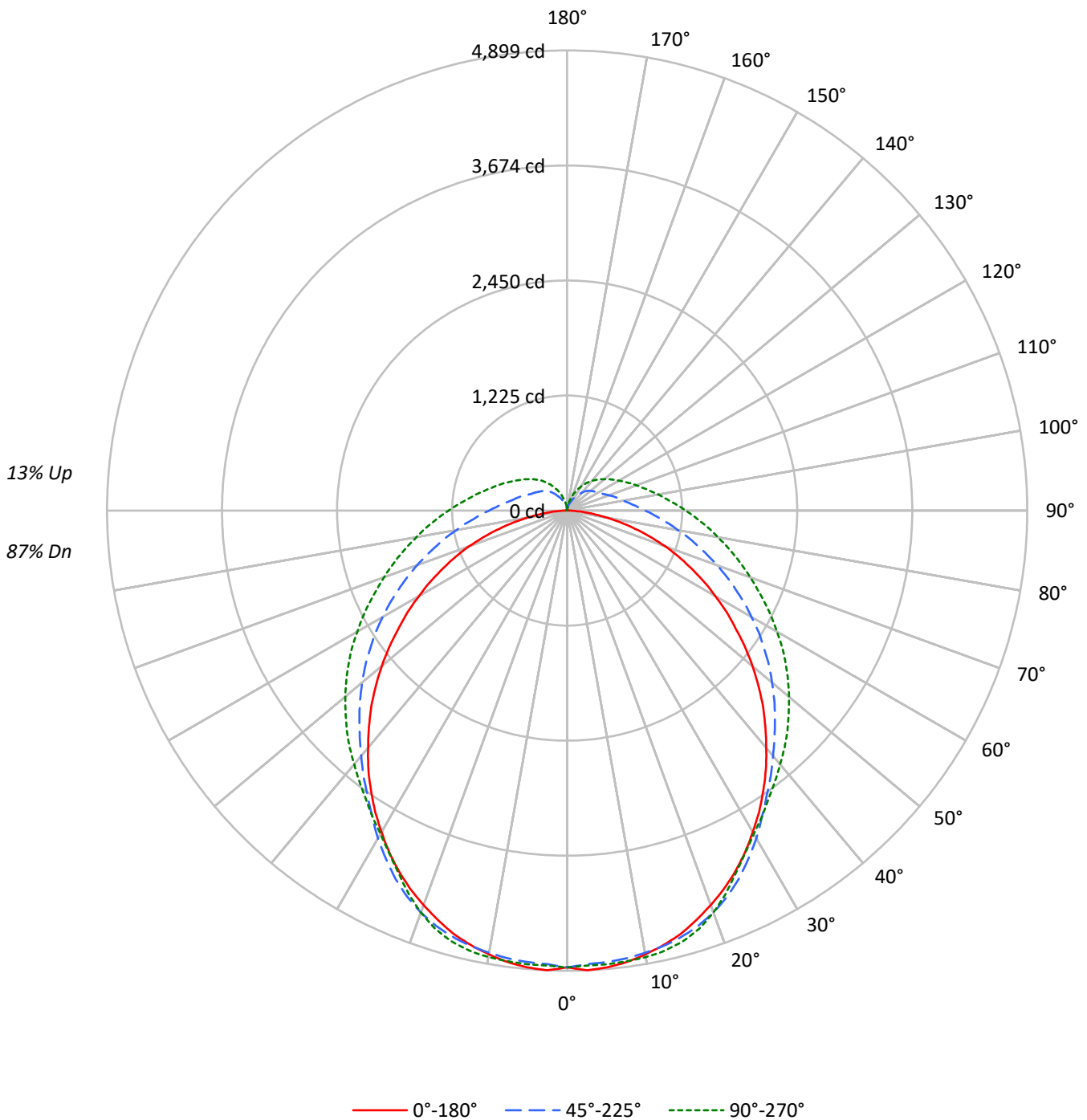
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17555.0 lumens  
Efficiency: N/A  
Efficacy: 151.6 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): 115.8  
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: 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	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°	26173	26173	26173
5°	26321	25001	24749
10°	26123	24059	23606
15°	25857	23166	22455
20°	25410	22159	20987
25°	24925	20934	19266
30°	24270	19554	17829
35°	23571	18148	16757
40°	22770	17020	15889
45°	21990	16020	15141
50°	21057	15099	14386
55°	19960	14175	13648
60°	18923	13252	12875
65°	17777	12321	12167
70°	16478	11449	11528
75°	14413	10599	11000
80°	11714	9870	10554
85°	8459	9362	10298



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.0	2.6
10°-20°	1328.3	7.6
20°-30°	1977.9	11.3
30°-40°	2333.8	13.3
40°-50°	2433.9	13.9
50°-60°	2287.2	13.0
60°-70°	1931.6	11.0
70°-80°	1459.4	8.3
80°-90°	1006.0	5.7
90°-100°	704.0	4.0
100°-110°	525.4	3.0
110°-120°	396.1	2.3
120°-130°	295.4	1.7
130°-140°	207.3	1.2
140°-150°	125.3	0.7
150°-160°	59.9	0.3
160°-170°	19.2	0.1
170°-180°	2.3	0.0
0°-30°	3768.1	21.5
0°-40°	6101.9	34.8
0°-60°	10823.1	61.7
0°-90°	15220.1	86.7
90°-120°	1625.4	9.3
90°-150°	2253.5	12.8
90°-180°	2335.0	13.3
0°-180°	17555.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4863	4863	4863	4863	4863	
5°	4881	4872	4824	4860	4848	463
15°	4667	4688	4699	4759	4750	1314
25°	4238	4324	4324	4286	4253	1950
35°	3640	3774	3702	3732	3741	2276
45°	2949	3095	3128	3256	3316	2271
55°	2190	2378	2560	2765	2839	1965
65°	1458	1690	1976	2235	2321	1448
75°	747	1036	1434	1735	1845	795
85°	170	533	994	1321	1438	190
90°	3	378	830	1149	1262	12
95°	3	295	702	1006	1110	2
105°	6	211	542	786	875	6
115°	6	182	420	625	705	6
125°	9	155	354	512	577	8
135°	9	119	295	417	467	7
145°	12	86	205	318	357	7
155°	12	56	125	202	235	6
165°	15	36	66	89	119	4
175°	15	15	18	18	9	1
180°	9	9	9	9	9	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4863.1	4863.1	4863.1	4863.1	4863.1
2.5°	4898.8	4886.9	4833.3	4863.1	4848.2
5°	4880.9	4872.0	4824.4	4860.1	4848.2
7.5°	4848.2	4845.2	4809.5	4851.2	4839.3
10°	4797.6	4806.5	4779.7	4836.3	4827.3
12.5°	4738.1	4755.9	4747.0	4809.5	4800.6
15°	4666.6	4687.5	4699.4	4758.9	4750.0
17.5°	4571.4	4610.1	4636.9	4684.5	4669.6
20°	4470.2	4523.8	4553.5	4577.3	4553.5
22.5°	4360.1	4431.5	4449.4	4437.5	4413.7
25°	4238.1	4324.4	4324.4	4285.7	4252.9
27.5°	4101.2	4208.3	4178.5	4133.9	4107.1
30°	3952.4	4080.3	4029.7	3979.1	3973.2
32.5°	3803.5	3937.5	3863.1	3851.2	3860.1
35°	3639.9	3773.8	3702.4	3732.1	3741.0
37.5°	3476.2	3610.1	3562.5	3607.1	3633.9
40°	3297.6	3440.5	3410.7	3491.0	3526.8
42.5°	3122.0	3270.8	3267.8	3372.0	3425.6
45°	2949.4	3095.2	3128.0	3255.9	3315.5
47.5°	2761.9	2910.7	2991.1	3139.9	3199.4
50°	2577.4	2738.1	2848.2	3014.9	3083.3
52.5°	2386.9	2556.5	2708.3	2892.8	2964.3
55°	2190.5	2378.0	2559.5	2764.9	2839.3
57.5°	2014.9	2205.3	2419.6	2630.9	2717.2
60°	1821.4	2032.7	2267.8	2491.1	2577.4
62.5°	1645.8	1863.1	2125.0	2360.1	2452.4
65°	1458.3	1690.5	1976.2	2235.1	2321.4
67.5°	1285.7	1523.8	1836.3	2098.2	2193.4
70°	1107.1	1360.1	1699.4	1976.2	2074.4
72.5°	922.6	1190.5	1562.5	1857.1	1958.3
75°	747.0	1035.7	1434.5	1735.1	1845.2
77.5°	583.3	886.9	1318.4	1628.0	1735.1
80°	422.6	753.0	1196.4	1517.8	1628.0
82.5°	279.8	636.9	1098.2	1419.6	1535.7
85°	169.6	532.7	994.0	1321.4	1437.5
87.5°	77.4	446.4	910.7	1235.1	1348.2
90°	3.0	378.0	830.4	1148.8	1261.9
92.5°	3.0	330.4	764.9	1074.4	1184.5
95°	3.0	294.6	702.4	1005.9	1110.1
97.5°	3.0	270.8	654.8	940.5	1041.7
100°	3.0	247.0	607.1	880.9	985.1
102.5°	6.0	226.2	571.4	827.4	925.6
105°	6.0	211.3	541.7	785.7	875.0
107.5°	6.0	202.4	508.9	744.0	827.4
110°	6.0	193.5	473.2	702.4	785.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.0	187.5	446.4	666.7	747.0
115°	6.0	181.5	419.6	625.0	705.4
117.5°	6.0	178.6	404.8	592.3	669.6
120°	8.9	169.6	386.9	562.5	636.9
122.5°	8.9	160.7	369.0	538.7	604.2
125°	8.9	154.8	354.2	511.9	577.4
127.5°	8.9	145.8	339.3	488.1	547.6
130°	8.9	136.9	327.4	464.3	520.8
132.5°	8.9	128.0	312.5	440.5	494.0
135°	8.9	119.0	294.6	416.7	467.3
137.5°	8.9	110.1	276.8	392.9	440.5
140°	8.9	101.2	253.0	369.0	413.7
142.5°	8.9	92.3	229.2	345.2	383.9
145°	11.9	86.3	205.4	318.5	357.1
147.5°	11.9	77.4	181.5	291.7	324.4
150°	11.9	71.4	163.7	264.9	294.6
152.5°	11.9	62.5	145.8	235.1	264.9
155°	11.9	56.5	125.0	202.4	235.1
157.5°	11.9	50.6	107.1	169.6	205.4
160°	11.9	47.6	92.3	139.9	175.6
162.5°	14.9	41.7	77.4	113.1	145.8
165°	14.9	35.7	65.5	89.3	119.0
167.5°	14.9	29.8	53.6	68.5	92.3
170°	14.9	23.8	41.7	47.6	71.4
172.5°	14.9	17.9	29.8	32.7	35.7
175°	14.9	14.9	17.9	17.9	8.9
177.5°	14.9	14.9	11.9	8.9	3.0
180°	8.9	8.9	8.9	8.9	8.9

(END OF REPORT)