

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: P567666

Luminaire Tested: **8SNX-186HL-SLW-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567666  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-186HL-SLW-UNV-L830-CD  
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

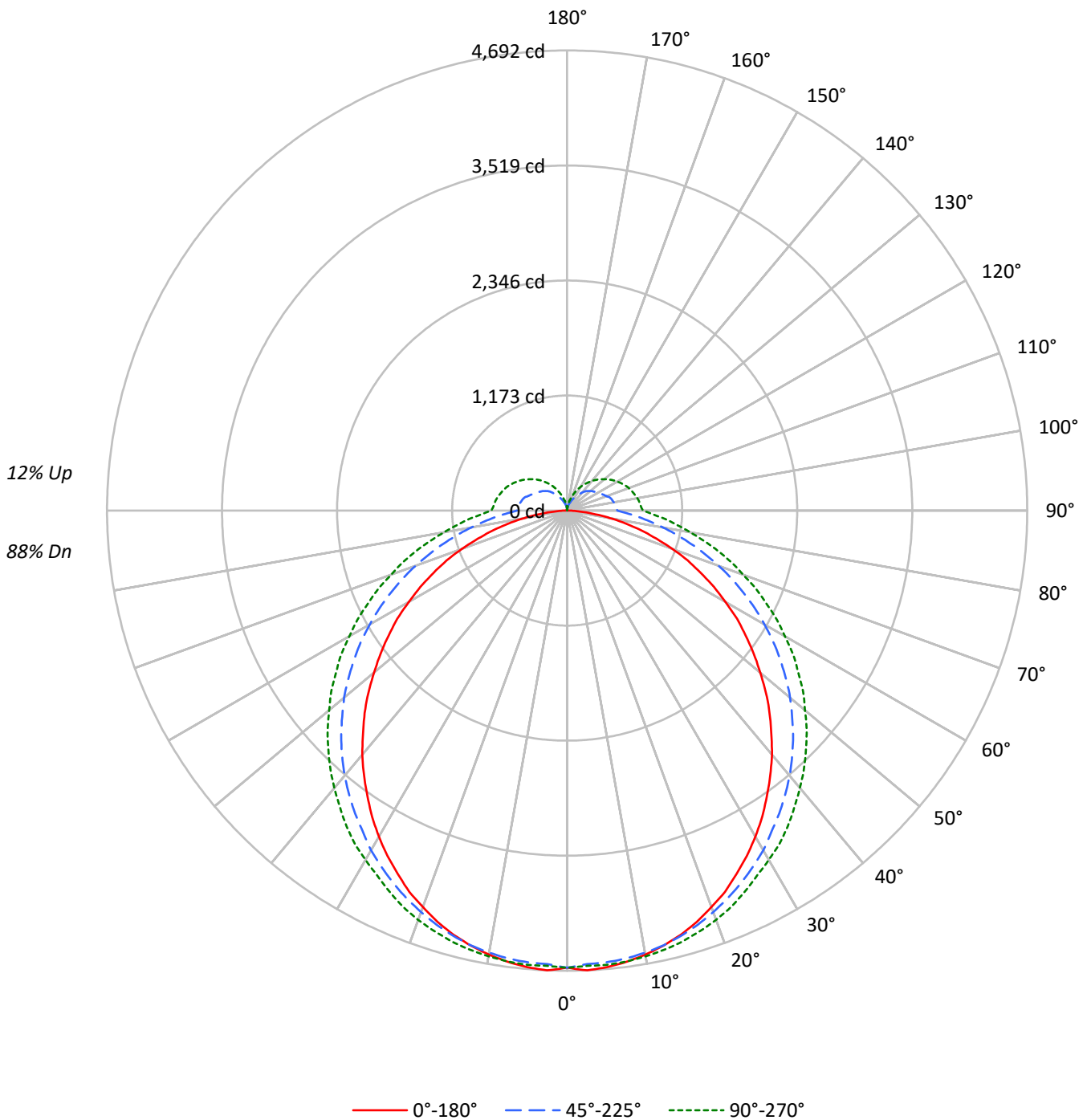
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16780.0 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')  
CIE Type: Semi-Direct  
  
Input Watts (W): 134.8  
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	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

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

	0°	45°	90°
0°	25084	25084	25084
5°	25219	24460	24409
10°	25080	23992	23826
15°	24875	23485	23275
20°	24544	22929	22700
25°	24148	22371	22046
30°	23716	21809	21444
35°	23167	21179	20925
40°	22636	20606	20290
45°	21993	19968	19687
50°	21246	19288	18997
55°	20538	18493	18309
60°	19719	17630	17517
65°	18721	16645	16672
70°	17454	15532	15702
75°	15647	14252	14811
80°	13122	12985	13686
85°	9517	11869	12952



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	442.5	2.6
10°-20°	1272.8	7.6
20°-30°	1936.3	11.5
30°-40°	2354.3	14.0
40°-50°	2490.8	14.8
50°-60°	2334.8	13.9
60°-70°	1920.8	11.4
70°-80°	1329.0	7.9
80°-90°	739.0	4.4
90°-100°	486.9	2.9
100°-110°	436.6	2.6
110°-120°	361.4	2.2
120°-130°	279.3	1.7
130°-140°	197.8	1.2
140°-150°	119.3	0.7
150°-160°	57.3	0.3
160°-170°	18.8	0.1
170°-180°	2.3	0.0
0°-30°	3651.6	21.8
0°-40°	6005.9	35.8
0°-60°	10831.6	64.6
0°-90°	14820.4	88.3
90°-120°	1284.8	7.7
90°-150°	1881.2	11.2
90°-180°	1960.0	11.7
0°-180°	16780.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4661	4661	4661	4661	4661	
5°	4672	4664	4624	4661	4649	444
15°	4477	4491	4488	4549	4549	1262
25°	4086	4144	4192	4284	4287	1883
35°	3552	3646	3770	3891	3925	2223
45°	2920	3072	3259	3405	3445	2250
55°	2221	2420	2652	2819	2876	1988
65°	1503	1718	1986	2181	2241	1490
75°	782	1009	1305	1512	1595	829
85°	172	428	724	925	1006	198
90°	3	241	512	704	773	11
95°	3	230	497	681	747	2
105°	3	198	466	641	698	3
115°	6	172	394	569	632	5
125°	6	146	336	486	546	5
135°	6	115	282	399	448	4
145°	6	83	195	302	339	4
155°	9	58	121	192	224	4
165°	9	37	66	89	115	2
175°	9	14	20	20	12	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4660.8	4660.8	4660.8	4660.8	4660.8
2.5°	4692.4	4678.1	4629.2	4660.8	4646.5
5°	4672.3	4663.7	4623.5	4660.8	4649.3
7.5°	4640.7	4637.8	4606.2	4649.3	4637.8
10°	4597.6	4603.4	4577.5	4623.5	4614.9
12.5°	4543.0	4551.6	4540.1	4591.9	4586.1
15°	4476.9	4491.3	4488.4	4548.8	4548.8
17.5°	4396.5	4416.6	4428.1	4497.0	4497.0
20°	4301.6	4333.3	4356.2	4431.0	4442.4
22.5°	4206.8	4244.2	4278.7	4356.2	4373.5
25°	4086.1	4143.6	4192.5	4284.4	4287.3
27.5°	3968.3	4031.5	4097.6	4186.7	4195.3
30°	3839.0	3919.5	3999.9	4086.1	4112.0
32.5°	3701.1	3790.2	3879.2	3994.2	4028.7
35°	3551.7	3646.5	3770.0	3890.7	3925.2
37.5°	3402.2	3508.6	3652.2	3775.8	3807.4
40°	3249.9	3367.8	3528.7	3655.1	3692.5
42.5°	3080.4	3224.1	3396.5	3531.5	3574.6
45°	2919.5	3071.8	3258.6	3405.1	3445.3
47.5°	2750.0	2910.9	3112.0	3267.2	3313.2
50°	2568.9	2752.8	2968.3	3123.5	3166.6
52.5°	2399.4	2586.2	2813.2	2974.1	3034.4
55°	2221.2	2419.5	2652.3	2818.9	2876.4
57.5°	2054.6	2244.2	2494.2	2660.9	2732.7
60°	1864.9	2074.7	2324.7	2505.7	2563.2
62.5°	1686.8	1899.4	2158.0	2344.8	2410.9
65°	1502.8	1718.4	1985.6	2181.0	2241.3
67.5°	1330.4	1543.1	1816.1	2008.6	2086.2
70°	1140.8	1364.9	1643.6	1841.9	1908.0
72.5°	954.0	1186.8	1471.2	1683.9	1758.6
75°	781.6	1008.6	1304.6	1511.5	1594.8
77.5°	614.9	844.8	1143.7	1356.3	1428.1
80°	448.3	689.6	994.2	1204.0	1273.0
82.5°	296.0	548.8	850.6	1060.3	1135.0
85°	172.4	428.2	724.1	925.3	1005.7
87.5°	74.7	324.7	606.3	804.6	870.7
90°	2.9	241.4	511.5	704.0	773.0
92.5°	2.9	235.6	500.0	689.6	755.7
95°	2.9	229.9	497.1	681.0	747.1
97.5°	2.9	227.0	491.4	675.3	738.5
100°	2.9	218.4	482.7	663.8	727.0
102.5°	2.9	206.9	474.1	652.3	712.6
105°	2.9	198.3	465.5	640.8	698.3
107.5°	2.9	189.7	451.1	626.4	683.9
110°	2.9	181.0	428.2	612.1	669.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	178.2	410.9	591.9	652.3
115°	5.7	172.4	393.7	569.0	632.2
117.5°	5.7	169.5	379.3	546.0	612.1
120°	5.7	160.9	364.9	525.9	589.1
122.5°	5.7	152.3	350.6	505.7	569.0
125°	5.7	146.5	336.2	485.6	546.0
127.5°	5.7	137.9	324.7	465.5	520.1
130°	5.7	132.2	310.3	442.5	497.1
132.5°	5.7	123.6	296.0	419.5	471.3
135°	5.7	114.9	281.6	399.4	448.3
137.5°	5.7	103.4	264.4	376.4	422.4
140°	5.7	94.8	241.4	353.4	396.5
142.5°	5.7	89.1	218.4	327.6	367.8
145°	5.7	83.3	195.4	301.7	339.1
147.5°	5.7	77.6	175.3	275.9	310.3
150°	5.7	69.0	155.2	252.9	281.6
152.5°	8.6	63.2	137.9	224.1	252.9
155°	8.6	57.5	120.7	192.5	224.1
157.5°	8.6	51.7	103.4	160.9	195.4
160°	8.6	46.0	89.1	132.2	166.7
162.5°	8.6	43.1	77.6	109.2	140.8
165°	8.6	37.4	66.1	89.1	114.9
167.5°	8.6	28.7	54.6	69.0	94.8
170°	8.6	23.0	43.1	48.8	71.8
172.5°	8.6	17.2	31.6	34.5	37.4
175°	8.6	14.4	20.1	20.1	11.5
177.5°	8.6	11.5	11.5	11.5	5.7
180°	5.7	5.7	5.7	5.7	5.7

(END OF REPORT)