

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: P567616

Luminaire Tested: **8SNX-180HL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567616  
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-180HL-LW-UNV-L940-CD  
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

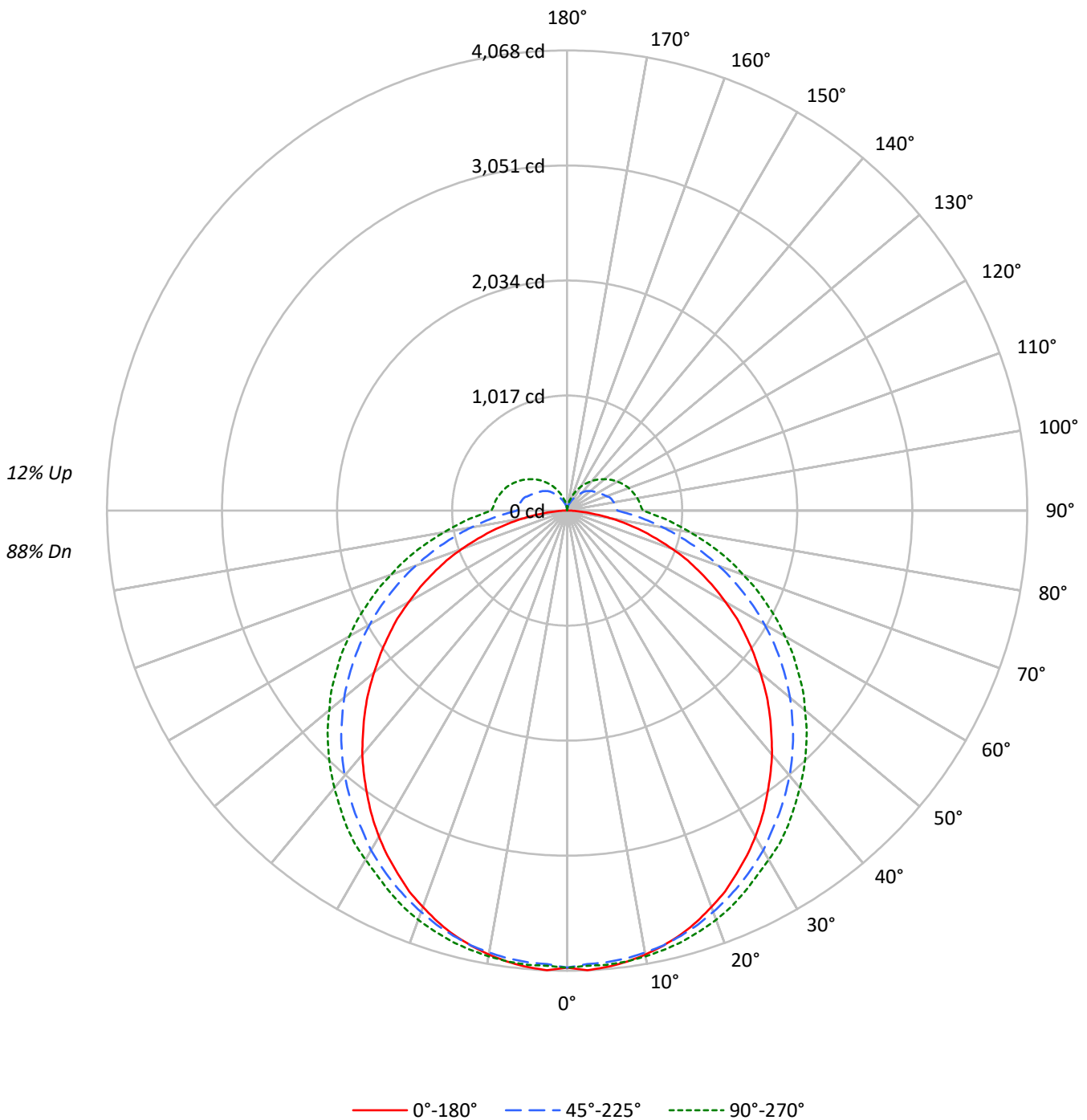
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14546.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 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: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 128.8  
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°	21745	21745	21745
5°	21842	20769	20574
10°	21701	19973	19563
15°	21504	19181	18641
20°	21196	18377	17749
25°	20832	17593	16836
30°	20436	16826	15995
35°	19937	16019	15241
40°	19453	15264	14421
45°	18869	14467	13639
50°	18194	13641	12808
55°	17545	12733	11985
60°	16795	11776	11099
65°	15881	10731	10183
70°	14719	9599	9191
75°	13072	8356	8242
80°	10771	7110	7154
85°	7456	5912	6245



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.6	2.6
10°-20°	1103.4	7.6
20°-30°	1678.5	11.5
30°-40°	2040.9	14.0
40°-50°	2159.2	14.8
50°-60°	2024.0	13.9
60°-70°	1665.1	11.4
70°-80°	1152.1	7.9
80°-90°	640.7	4.4
90°-100°	422.1	2.9
100°-110°	378.5	2.6
110°-120°	313.3	2.2
120°-130°	242.2	1.7
130°-140°	171.4	1.2
140°-150°	103.4	0.7
150°-160°	49.7	0.3
160°-170°	16.3	0.1
170°-180°	2.0	0.0
0°-30°	3165.4	21.8
0°-40°	5206.3	35.8
0°-60°	9389.5	64.6
0°-90°	12847.3	88.3
90°-120°	1113.8	7.7
90°-150°	1630.8	11.2
90°-180°	1699.0	11.7
0°-180°	14546.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4040	4040	4040	4040	4040	
5°	4050	4043	4008	4040	4030	384
15°	3881	3893	3891	3943	3943	1094
25°	3542	3592	3634	3714	3716	1633
35°	3079	3161	3268	3373	3403	1927
45°	2531	2663	2825	2952	2987	1951
55°	1926	2097	2299	2444	2493	1724
65°	1303	1490	1721	1891	1943	1292
75°	678	874	1131	1310	1382	719
85°	150	371	628	802	872	172
90°	2	209	443	610	670	10
95°	2	199	431	590	648	2
105°	2	172	404	556	605	3
115°	5	150	341	493	548	4
125°	5	127	291	421	473	4
135°	5	100	244	346	389	4
145°	5	72	169	262	294	3
155°	8	50	105	167	194	3
165°	8	32	57	77	100	2
175°	8	12	17	17	10	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4040.3	4040.3	4040.3	4040.3	4040.3
2.5°	4067.7	4055.3	4012.9	4040.3	4027.9
5°	4050.3	4042.8	4007.9	4040.3	4030.4
7.5°	4022.9	4020.4	3993.0	4030.4	4020.4
10°	3985.5	3990.5	3968.1	4007.9	4000.5
12.5°	3938.2	3945.7	3935.7	3980.5	3975.6
15°	3880.9	3893.4	3890.9	3943.2	3943.2
17.5°	3811.1	3828.6	3838.5	3898.3	3898.3
20°	3728.9	3756.3	3776.3	3841.0	3851.0
22.5°	3646.7	3679.1	3709.0	3776.3	3791.2
25°	3542.1	3591.9	3634.3	3714.0	3716.5
27.5°	3440.0	3494.8	3552.1	3629.3	3636.8
30°	3327.9	3397.7	3467.4	3542.1	3564.5
32.5°	3208.3	3285.6	3362.8	3462.4	3492.3
35°	3078.8	3161.0	3268.1	3372.7	3402.6
37.5°	2949.3	3041.4	3166.0	3273.1	3300.5
40°	2817.3	2919.4	3058.9	3168.5	3200.9
42.5°	2670.3	2794.8	2944.3	3061.4	3098.7
45°	2530.8	2662.8	2824.7	2951.8	2986.6
47.5°	2383.8	2523.3	2697.7	2832.2	2872.1
50°	2226.9	2386.3	2573.1	2707.7	2745.0
52.5°	2079.9	2241.9	2438.6	2578.1	2630.4
55°	1925.5	2097.4	2299.1	2443.6	2493.4
57.5°	1781.0	1945.4	2162.1	2306.6	2368.9
60°	1616.6	1798.5	2015.2	2172.1	2221.9
62.5°	1462.2	1646.5	1870.7	2032.6	2089.9
65°	1302.8	1489.6	1721.2	1890.6	1942.9
67.5°	1153.3	1337.6	1574.3	1741.2	1808.4
70°	988.9	1183.2	1424.8	1596.7	1654.0
72.5°	827.0	1028.8	1275.4	1459.7	1524.5
75°	677.5	874.3	1130.9	1310.2	1382.5
77.5°	533.1	732.3	991.4	1175.7	1238.0
80°	388.6	597.8	861.9	1043.7	1103.5
82.5°	256.6	475.8	737.3	919.2	983.9
85°	149.5	371.2	627.7	802.1	871.8
87.5°	64.8	281.5	525.6	697.5	754.8
90°	2.5	209.2	443.4	610.3	670.1
92.5°	2.5	204.3	433.4	597.8	655.1
95°	2.5	199.3	430.9	590.4	647.6
97.5°	2.5	196.8	426.0	585.4	640.2
100°	2.5	189.3	418.5	575.4	630.2
102.5°	2.5	179.3	411.0	565.4	617.8
105°	2.5	171.9	403.5	555.5	605.3
107.5°	2.5	164.4	391.1	543.0	592.8
110°	2.5	156.9	371.2	530.6	580.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	154.4	356.2	513.1	565.4
115°	5.0	149.5	341.3	493.2	548.0
117.5°	5.0	147.0	328.8	473.3	530.6
120°	5.0	139.5	316.4	455.8	510.6
122.5°	5.0	132.0	303.9	438.4	493.2
125°	5.0	127.0	291.4	421.0	473.3
127.5°	5.0	119.6	281.5	403.5	450.9
130°	5.0	114.6	269.0	383.6	430.9
132.5°	5.0	107.1	256.6	363.7	408.5
135°	5.0	99.6	244.1	346.2	388.6
137.5°	5.0	89.7	229.2	326.3	366.2
140°	5.0	82.2	209.2	306.4	343.8
142.5°	5.0	77.2	189.3	284.0	318.8
145°	5.0	72.2	169.4	261.5	293.9
147.5°	5.0	67.3	151.9	239.1	269.0
150°	5.0	59.8	134.5	219.2	244.1
152.5°	7.5	54.8	119.6	194.3	219.2
155°	7.5	49.8	104.6	166.9	194.3
157.5°	7.5	44.8	89.7	139.5	169.4
160°	7.5	39.9	77.2	114.6	144.5
162.5°	7.5	37.4	67.3	94.7	122.1
165°	7.5	32.4	57.3	77.2	99.6
167.5°	7.5	24.9	47.3	59.8	82.2
170°	7.5	19.9	37.4	42.3	62.3
172.5°	7.5	14.9	27.4	29.9	32.4
175°	7.5	12.5	17.4	17.4	10.0
177.5°	7.5	10.0	10.0	10.0	5.0
180°	5.0	5.0	5.0	5.0	5.0

(END OF REPORT)