

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: P567602

Luminaire Tested: **8SNX-180HL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567602  
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-180HL-LN-UNV-L830-CD  
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

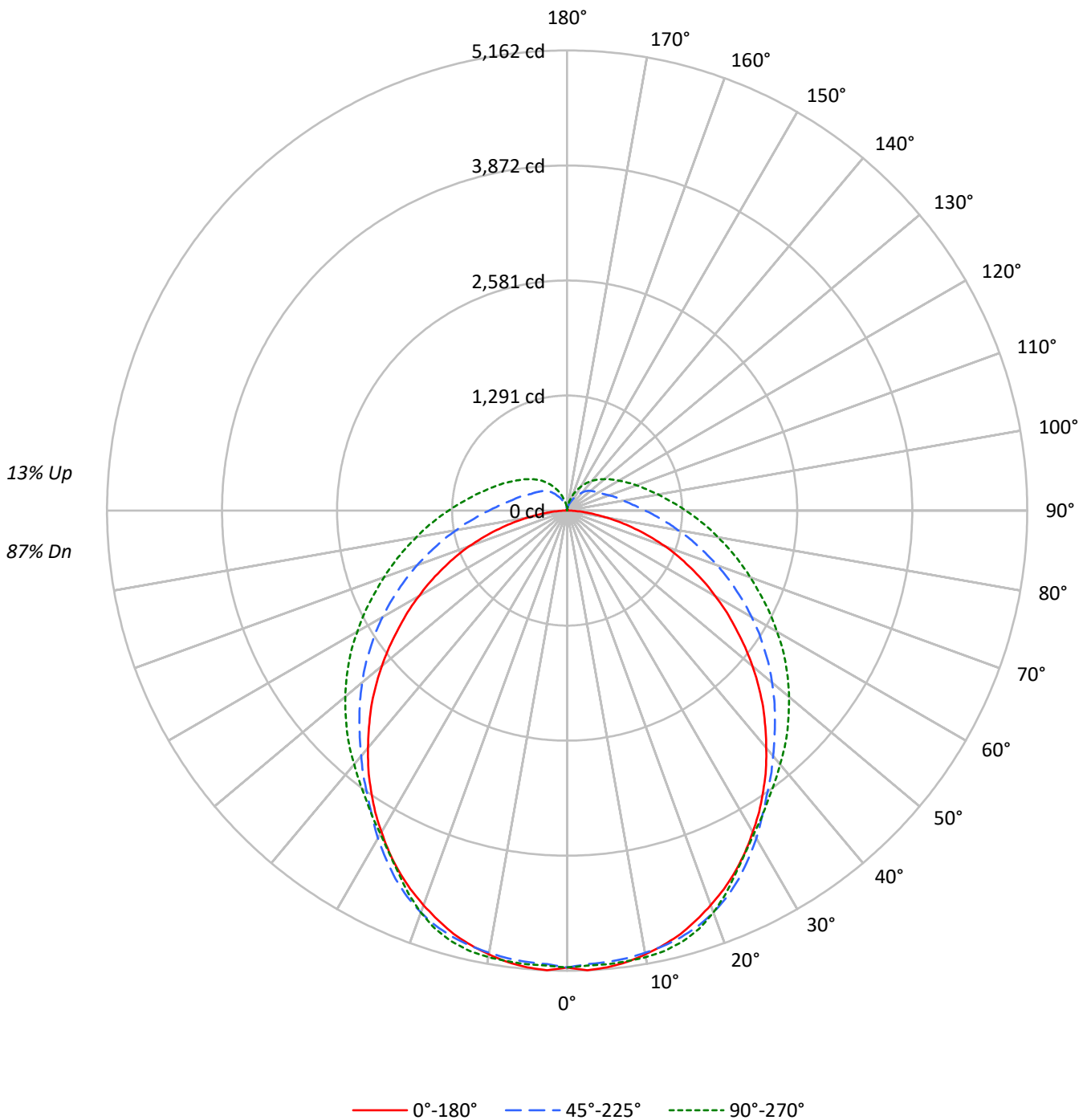
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18499.0 lumens  
Efficiency: N/A  
Efficacy: 143.6 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): 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	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°	27580	27580	27580
5°	27737	26345	26080
10°	27528	25353	24876
15°	27248	24412	23662
20°	26776	23350	22116
25°	26265	22060	20302
30°	25575	20606	18788
35°	24838	19123	17658
40°	23994	17935	16744
45°	23173	16881	15955
50°	22190	15912	15160
55°	21033	14937	14381
60°	19941	13965	13568
65°	18733	12983	12821
70°	17365	12065	12147
75°	15188	11170	11592
80°	12343	10401	11121
85°	8918	9865	10851



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.8	2.6
10°-20°	1399.7	7.6
20°-30°	2084.2	11.3
30°-40°	2459.3	13.3
40°-50°	2564.8	13.9
50°-60°	2410.2	13.0
60°-70°	2035.4	11.0
70°-80°	1537.9	8.3
80°-90°	1060.1	5.7
90°-100°	741.9	4.0
100°-110°	553.6	3.0
110°-120°	417.3	2.3
120°-130°	311.3	1.7
130°-140°	218.5	1.2
140°-150°	132.1	0.7
150°-160°	63.2	0.3
160°-170°	20.2	0.1
170°-180°	2.4	0.0
0°-30°	3970.7	21.5
0°-40°	6430.0	34.8
0°-60°	11405.0	61.7
0°-90°	16038.5	86.7
90°-120°	1712.9	9.3
90°-150°	2374.7	12.8
90°-180°	2460.0	13.3
0°-180°	18499.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5125	5125	5125	5125	5125	
5°	5143	5134	5084	5121	5109	488
15°	4918	4940	4952	5015	5005	1385
25°	4466	4557	4557	4516	4482	2055
35°	3836	3977	3901	3933	3942	2399
45°	3108	3262	3296	3431	3494	2393
55°	2308	2506	2697	2914	2992	2071
65°	1537	1781	2082	2355	2446	1526
75°	787	1091	1512	1828	1944	838
85°	179	561	1048	1392	1515	200
90°	3	398	875	1211	1330	12
95°	3	310	740	1060	1170	3
105°	6	223	571	828	922	6
115°	6	191	442	659	743	7
125°	9	163	373	539	608	8
135°	9	125	310	439	492	7
145°	12	91	216	336	376	7
155°	12	60	132	213	248	6
165°	16	38	69	94	125	4
175°	16	16	19	19	9	1
180°	9	9	9	9	9	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5124.6	5124.6	5124.6	5124.6	5124.6
2.5°	5162.2	5149.7	5093.2	5124.6	5108.9
5°	5143.4	5134.0	5083.8	5121.4	5108.9
7.5°	5108.9	5105.7	5068.1	5112.0	5099.5
10°	5055.6	5065.0	5036.8	5096.3	5086.9
12.5°	4992.8	5011.7	5002.3	5068.1	5058.7
15°	4917.6	4939.5	4952.1	5014.8	5005.4
17.5°	4817.2	4858.0	4886.2	4936.4	4920.7
20°	4710.6	4767.0	4798.4	4823.5	4798.4
22.5°	4594.5	4669.8	4688.6	4676.1	4651.0
25°	4466.0	4556.9	4556.9	4516.1	4481.6
27.5°	4321.7	4434.6	4403.2	4356.2	4328.0
30°	4164.9	4299.7	4246.4	4193.1	4186.8
32.5°	4008.1	4149.2	4070.8	4058.3	4067.7
35°	3835.6	3976.7	3901.4	3932.8	3942.2
37.5°	3663.1	3804.2	3754.0	3801.1	3829.3
40°	3474.9	3625.5	3594.1	3678.8	3716.4
42.5°	3289.9	3446.7	3443.6	3553.3	3609.8
45°	3108.0	3261.7	3296.2	3431.0	3493.7
47.5°	2910.4	3067.2	3151.9	3308.7	3371.4
50°	2716.0	2885.3	3001.4	3177.0	3249.1
52.5°	2515.2	2694.0	2854.0	3048.4	3123.7
55°	2308.3	2505.8	2697.1	2913.5	2991.9
57.5°	2123.2	2323.9	2549.7	2772.4	2863.4
60°	1919.4	2142.0	2389.8	2625.0	2716.0
62.5°	1734.3	1963.3	2239.3	2487.0	2584.2
65°	1536.7	1781.4	2082.4	2355.3	2446.2
67.5°	1354.8	1605.7	1935.0	2211.0	2311.4
70°	1166.7	1433.2	1790.8	2082.4	2185.9
72.5°	972.2	1254.5	1646.5	1957.0	2063.6
75°	787.2	1091.4	1511.7	1828.4	1944.5
77.5°	614.7	934.6	1389.3	1715.5	1828.4
80°	445.3	793.5	1260.8	1599.5	1715.5
82.5°	294.8	671.1	1157.3	1496.0	1618.3
85°	178.8	561.4	1047.5	1392.5	1514.8
87.5°	81.5	470.4	959.7	1301.5	1420.7
90°	3.1	398.3	875.0	1210.6	1329.8
92.5°	3.1	348.1	806.0	1132.2	1248.2
95°	3.1	310.5	740.1	1060.0	1169.8
97.5°	3.1	285.4	690.0	991.0	1097.7
100°	3.1	260.3	639.8	928.3	1038.1
102.5°	6.3	238.4	602.2	871.9	975.4
105°	6.3	222.7	570.8	828.0	922.0
107.5°	6.3	213.3	536.3	784.1	871.9
110°	6.3	203.9	498.7	740.1	828.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.3	197.6	470.4	702.5	787.2
115°	6.3	191.3	442.2	658.6	743.3
117.5°	6.3	188.2	426.5	624.1	705.6
120°	9.4	178.8	407.7	592.7	671.1
122.5°	9.4	169.4	388.9	567.7	636.7
125°	9.4	163.1	373.2	539.4	608.4
127.5°	9.4	153.7	357.5	514.3	577.1
130°	9.4	144.3	345.0	489.2	548.8
132.5°	9.4	134.9	329.3	464.2	520.6
135°	9.4	125.4	310.5	439.1	492.4
137.5°	9.4	116.0	291.7	414.0	464.2
140°	9.4	106.6	266.6	388.9	435.9
142.5°	9.4	97.2	241.5	363.8	404.6
145°	12.5	91.0	216.4	335.6	376.3
147.5°	12.5	81.5	191.3	307.3	341.8
150°	12.5	75.3	172.5	279.1	310.5
152.5°	12.5	65.9	153.7	247.8	279.1
155°	12.5	59.6	131.7	213.3	247.8
157.5°	12.5	53.3	112.9	178.8	216.4
160°	12.5	50.2	97.2	147.4	185.0
162.5°	15.7	43.9	81.5	119.2	153.7
165°	15.7	37.6	69.0	94.1	125.4
167.5°	15.7	31.4	56.5	72.1	97.2
170°	15.7	25.1	43.9	50.2	75.3
172.5°	15.7	18.8	31.4	34.5	37.6
175°	15.7	15.7	18.8	18.8	9.4
177.5°	15.7	15.7	12.5	9.4	3.1
180°	9.4	9.4	9.4	9.4	9.4

(END OF REPORT)