

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: P567624

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

Issue Date: 9/15/2022



**Test Information**

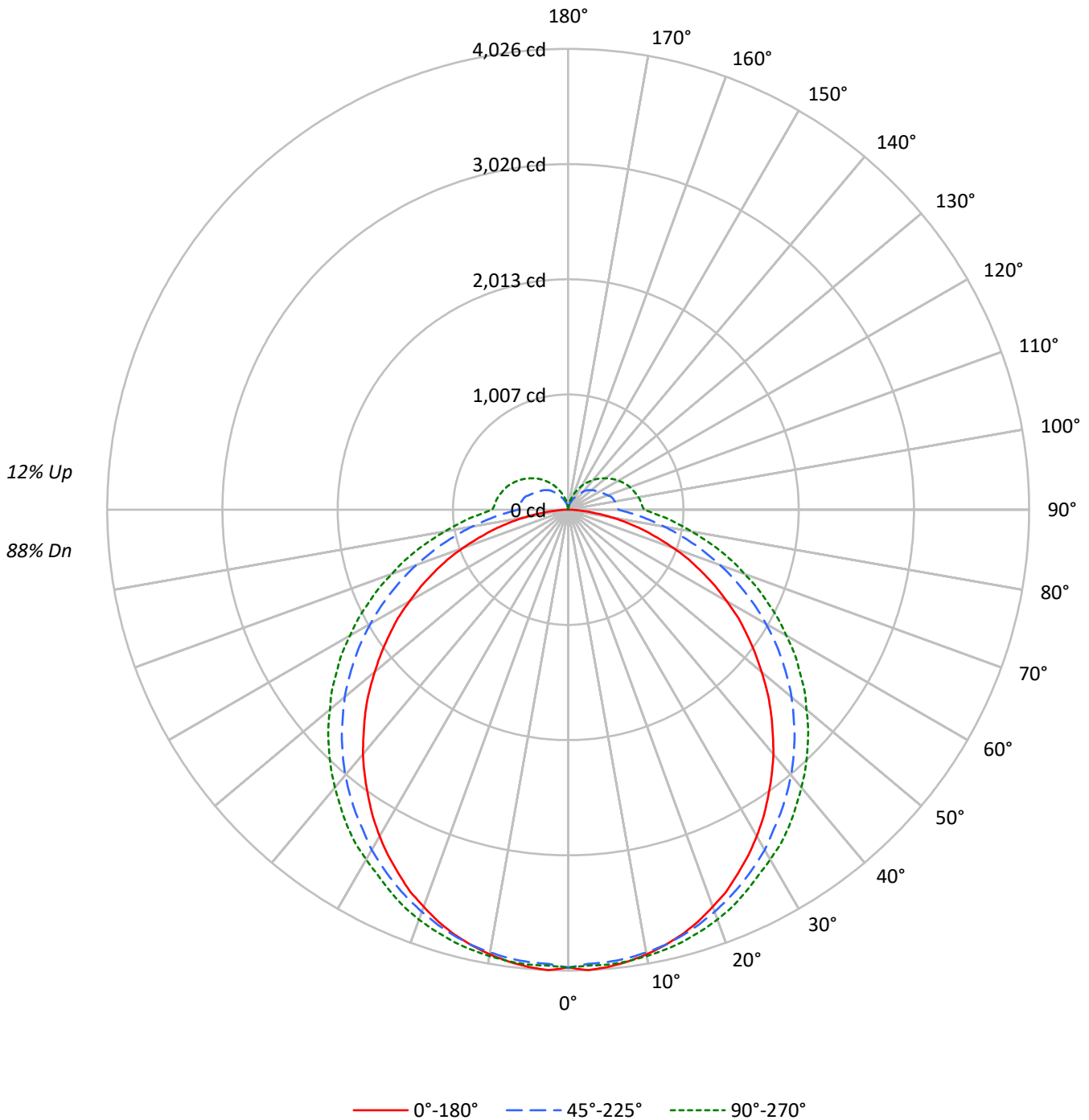
Test Method: LM-79-08  
Report Number: P567624  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-180HL-SLW-UNV-L940-CD  
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14398.0 lumens  
Efficiency: N/A  
Efficacy: 111.8 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): 128.8  
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

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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°	21524	21524	21524
5°	21640	20988	20944
10°	21520	20586	20443
15°	21344	20152	19970
20°	21060	19675	19478
25°	20720	19195	18917
30°	20349	18713	18400
35°	19878	18173	17954
40°	19423	17681	17409
45°	18871	17133	16893
50°	18230	16550	16300
55°	17622	15868	15710
60°	16920	15127	15030
65°	16064	14282	14306
70°	14975	13327	13473
75°	13425	12229	12709
80°	11258	11142	11743
85°	8165	10184	11114



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.7	2.6
10°-20°	1092.1	7.6
20°-30°	1661.4	11.5
30°-40°	2020.1	14.0
40°-50°	2137.2	14.8
50°-60°	2003.4	13.9
60°-70°	1648.1	11.4
70°-80°	1140.4	7.9
80°-90°	634.1	4.4
90°-100°	417.8	2.9
100°-110°	374.6	2.6
110°-120°	310.1	2.2
120°-130°	239.7	1.7
130°-140°	169.7	1.2
140°-150°	102.4	0.7
150°-160°	49.2	0.3
160°-170°	16.1	0.1
170°-180°	2.0	0.0
0°-30°	3133.2	21.8
0°-40°	5153.4	35.8
0°-60°	9294.0	64.6
0°-90°	12716.6	88.3
90°-120°	1102.4	7.7
90°-150°	1614.2	11.2
90°-180°	1681.0	11.7
0°-180°	14398.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3999	3999	3999	3999	3999	
5°	4009	4002	3967	3999	3989	381
15°	3841	3854	3851	3903	3903	1083
25°	3506	3555	3597	3676	3679	1616
35°	3048	3129	3235	3338	3368	1907
45°	2505	2636	2796	2922	2956	1931
55°	1906	2076	2276	2419	2468	1706
65°	1290	1474	1704	1871	1923	1279
75°	671	865	1119	1297	1368	711
85°	148	367	621	794	863	170
90°	2	207	439	604	663	10
95°	2	197	426	584	641	2
105°	2	170	399	550	599	3
115°	5	148	338	488	542	4
125°	5	126	288	417	468	4
135°	5	99	242	343	385	4
145°	5	72	168	259	291	3
155°	7	49	104	165	192	3
165°	7	32	57	76	99	2
175°	7	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°	3999.2	3999.2	3999.2	3999.2	3999.2
2.5°	4026.3	4014.0	3972.1	3999.2	3986.9
5°	4009.1	4001.7	3967.2	3999.2	3989.3
7.5°	3981.9	3979.5	3952.4	3989.3	3979.5
10°	3945.0	3949.9	3927.7	3967.2	3959.8
12.5°	3898.1	3905.5	3895.7	3940.0	3935.1
15°	3841.4	3853.7	3851.3	3903.0	3903.0
17.5°	3772.4	3789.6	3799.5	3858.7	3858.7
20°	3691.0	3718.1	3737.9	3802.0	3811.8
22.5°	3609.6	3641.7	3671.3	3737.9	3752.6
25°	3506.1	3555.4	3597.3	3676.2	3678.7
27.5°	3405.0	3459.2	3515.9	3592.4	3599.8
30°	3294.0	3363.1	3432.1	3506.1	3528.3
32.5°	3175.7	3252.1	3328.6	3427.2	3456.8
35°	3047.5	3128.8	3234.9	3338.4	3368.0
37.5°	2919.3	3010.5	3133.8	3239.8	3266.9
40°	2788.6	2889.7	3027.8	3136.2	3168.3
42.5°	2643.1	2766.4	2914.3	3030.2	3067.2
45°	2505.1	2635.7	2796.0	2921.7	2956.3
47.5°	2359.6	2497.7	2670.2	2803.4	2842.8
50°	2204.2	2362.0	2547.0	2680.1	2717.1
52.5°	2058.8	2219.0	2413.8	2551.9	2603.7
55°	1905.9	2076.0	2275.8	2418.8	2468.1
57.5°	1762.9	1925.6	2140.1	2283.1	2344.8
60°	1600.2	1780.2	1994.7	2150.0	2199.3
62.5°	1447.3	1629.8	1851.7	2011.9	2068.6
65°	1289.5	1474.4	1703.7	1871.4	1923.2
67.5°	1141.6	1324.0	1558.3	1723.5	1790.0
70°	978.8	1171.2	1410.3	1580.5	1637.2
72.5°	818.6	1018.3	1262.4	1444.8	1508.9
75°	670.6	865.4	1119.4	1296.9	1368.4
77.5°	527.6	724.9	981.3	1163.8	1225.4
80°	384.6	591.7	853.1	1033.1	1092.3
82.5°	254.0	470.9	729.8	909.8	973.9
85°	147.9	367.4	621.3	793.9	863.0
87.5°	64.1	278.6	520.2	690.4	747.1
90°	2.5	207.1	438.9	604.1	663.2
92.5°	2.5	202.2	429.0	591.7	648.5
95°	2.5	197.2	426.5	584.3	641.1
97.5°	2.5	194.8	421.6	579.4	633.7
100°	2.5	187.4	414.2	569.6	623.8
102.5°	2.5	177.5	406.8	559.7	611.5
105°	2.5	170.1	399.4	549.8	599.1
107.5°	2.5	162.7	387.1	537.5	586.8
110°	2.5	155.3	367.4	525.2	574.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	152.9	352.6	507.9	559.7
115°	4.9	147.9	337.8	488.2	542.4
117.5°	4.9	145.5	325.5	468.5	525.2
120°	4.9	138.1	313.1	451.2	505.4
122.5°	4.9	130.7	300.8	433.9	488.2
125°	4.9	125.7	288.5	416.7	468.5
127.5°	4.9	118.3	278.6	399.4	446.3
130°	4.9	113.4	266.3	379.7	426.5
132.5°	4.9	106.0	254.0	360.0	404.4
135°	4.9	98.6	241.6	342.7	384.6
137.5°	4.9	88.8	226.8	323.0	362.4
140°	4.9	81.4	207.1	303.3	340.3
142.5°	4.9	76.4	187.4	281.1	315.6
145°	4.9	71.5	167.7	258.9	290.9
147.5°	4.9	66.6	150.4	236.7	266.3
150°	4.9	59.2	133.1	217.0	241.6
152.5°	7.4	54.2	118.3	192.3	217.0
155°	7.4	49.3	103.6	165.2	192.3
157.5°	7.4	44.4	88.8	138.1	167.7
160°	7.4	39.4	76.4	113.4	143.0
162.5°	7.4	37.0	66.6	93.7	120.8
165°	7.4	32.1	56.7	76.4	98.6
167.5°	7.4	24.7	46.8	59.2	81.4
170°	7.4	19.7	37.0	41.9	61.6
172.5°	7.4	14.8	27.1	29.6	32.1
175°	7.4	12.3	17.3	17.3	9.9
177.5°	7.4	9.9	9.9	9.9	4.9
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)