

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: P567591

Luminaire Tested: **8SNX-180HL-FDL-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567591
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-FDL-UNV-L935-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

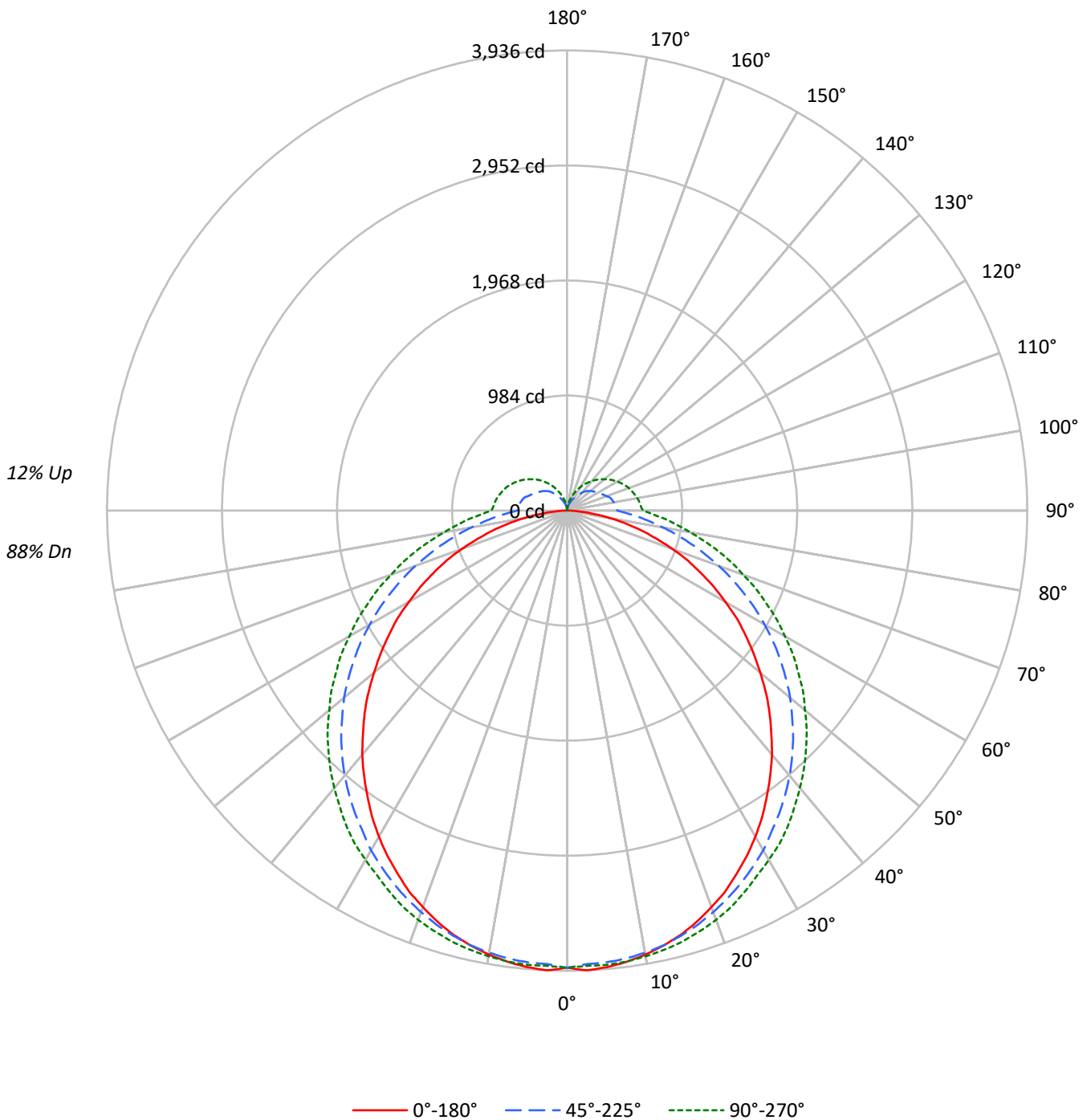
Lumens per Lamp: N/A
Luminaire Lumens: 14076.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

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°	21042	21042	21042
5°	21165	20733	20768
10°	21057	20545	20552
15°	20896	20317	20352
20°	20628	20043	20123
25°	20306	19764	19817
30°	19953	19485	19555
35°	19503	19149	19373
40°	19070	18871	19091
45°	18543	18551	18855
50°	17932	18211	18555
55°	17355	17789	18288
60°	16689	17340	17959
65°	15877	16826	17639
70°	14847	16265	17275
75°	13373	15655	17151
80°	11319	15302	17013
85°	8427	15699	17934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.2	2.6
10°-20°	1067.7	7.6
20°-30°	1624.3	11.5
30°-40°	1975.0	14.0
40°-50°	2089.5	14.8
50°-60°	1958.6	13.9
60°-70°	1611.3	11.4
70°-80°	1114.9	7.9
80°-90°	619.9	4.4
90°-100°	408.4	2.9
100°-110°	366.2	2.6
110°-120°	303.1	2.2
120°-130°	234.3	1.7
130°-140°	165.9	1.2
140°-150°	100.1	0.7
150°-160°	48.1	0.3
160°-170°	15.7	0.1
170°-180°	1.9	0.0
0°-30°	3063.2	21.8
0°-40°	5038.1	35.8
0°-60°	9086.2	64.6
0°-90°	12432.2	88.3
90°-120°	1077.8	7.7
90°-150°	1578.1	11.2
90°-180°	1644.0	11.7
0°-180°	14076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3910	3910	3910	3910	3910	
5°	3919	3912	3878	3910	3900	372
15°	3756	3768	3765	3816	3816	1059
25°	3428	3476	3517	3594	3596	1580
35°	2979	3059	3162	3264	3293	1865
45°	2449	2577	2734	2856	2890	1888
55°	1863	2030	2225	2365	2413	1668
65°	1261	1442	1666	1830	1880	1250
75°	656	846	1094	1268	1338	696
85°	145	359	607	776	844	166
90°	2	202	429	591	648	10
95°	2	193	417	571	627	2
105°	2	166	390	538	586	3
115°	5	145	330	477	530	4
125°	5	123	282	407	458	4
135°	5	96	236	335	376	4
145°	5	70	164	253	284	3
155°	7	48	101	162	188	3
165°	7	31	55	75	96	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°	3909.8	3909.8	3909.8	3909.8	3909.8
2.5°	3936.3	3924.2	3883.3	3909.8	3897.7
5°	3919.4	3912.2	3878.4	3909.8	3900.1
7.5°	3892.9	3890.5	3864.0	3900.1	3890.5
10°	3856.7	3861.6	3839.9	3878.4	3871.2
12.5°	3810.9	3818.2	3808.5	3851.9	3847.1
15°	3755.5	3767.6	3765.1	3815.8	3815.8
17.5°	3688.0	3704.9	3714.5	3772.4	3772.4
20°	3608.5	3635.0	3654.3	3716.9	3726.6
22.5°	3528.9	3560.3	3589.2	3654.3	3668.7
25°	3427.7	3475.9	3516.9	3594.0	3596.4
27.5°	3328.8	3381.9	3437.3	3512.0	3519.3
30°	3220.4	3287.9	3355.4	3427.7	3449.4
32.5°	3104.7	3179.4	3254.1	3350.5	3379.5
35°	2979.3	3058.9	3162.5	3263.8	3292.7
37.5°	2854.0	2943.2	3063.7	3167.3	3193.9
40°	2726.2	2825.1	2960.0	3066.1	3097.4
42.5°	2584.0	2704.5	2849.2	2962.5	2998.6
45°	2449.0	2576.8	2733.5	2856.4	2890.1
47.5°	2306.8	2441.8	2610.5	2740.7	2779.3
50°	2155.0	2309.2	2490.0	2620.2	2656.3
52.5°	2012.7	2169.4	2359.8	2494.8	2545.4
55°	1863.3	2029.6	2224.9	2364.7	2412.9
57.5°	1723.5	1882.6	2092.3	2232.1	2292.3
60°	1564.4	1740.4	1950.1	2101.9	2150.1
62.5°	1414.9	1593.3	1810.3	1966.9	2022.4
65°	1260.7	1441.5	1665.6	1829.5	1880.2
67.5°	1116.0	1294.4	1523.4	1684.9	1750.0
70°	957.0	1145.0	1378.8	1545.1	1600.5
72.5°	800.3	995.5	1234.2	1412.5	1475.2
75°	655.6	846.1	1094.3	1267.9	1337.8
77.5°	515.8	708.7	959.4	1137.7	1198.0
80°	376.0	578.5	834.0	1010.0	1067.8
82.5°	248.3	460.4	713.5	889.5	952.1
85°	144.6	359.2	607.4	776.2	843.7
87.5°	62.7	272.4	508.6	674.9	730.4
90°	2.4	202.5	429.1	590.6	648.4
92.5°	2.4	197.7	419.4	578.5	634.0
95°	2.4	192.8	417.0	571.3	626.7
97.5°	2.4	190.4	412.2	566.5	619.5
100°	2.4	183.2	405.0	556.8	609.8
102.5°	2.4	173.6	397.7	547.2	597.8
105°	2.4	166.3	390.5	537.5	585.7
107.5°	2.4	159.1	378.4	525.5	573.7
110°	2.4	151.9	359.2	513.4	561.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	149.4	344.7	496.6	547.2
115°	4.8	144.6	330.2	477.3	530.3
117.5°	4.8	142.2	318.2	458.0	513.4
120°	4.8	135.0	306.1	441.1	494.1
122.5°	4.8	127.8	294.1	424.2	477.3
125°	4.8	122.9	282.0	407.4	458.0
127.5°	4.8	115.7	272.4	390.5	436.3
130°	4.8	110.9	260.3	371.2	417.0
132.5°	4.8	103.6	248.3	351.9	395.3
135°	4.8	96.4	236.2	335.1	376.0
137.5°	4.8	86.8	221.8	315.8	354.3
140°	4.8	79.5	202.5	296.5	332.6
142.5°	4.8	74.7	183.2	274.8	308.5
145°	4.8	69.9	163.9	253.1	284.4
147.5°	4.8	65.1	147.0	231.4	260.3
150°	4.8	57.9	130.2	212.1	236.2
152.5°	7.2	53.0	115.7	188.0	212.1
155°	7.2	48.2	101.2	161.5	188.0
157.5°	7.2	43.4	86.8	135.0	163.9
160°	7.2	38.6	74.7	110.9	139.8
162.5°	7.2	36.2	65.1	91.6	118.1
165°	7.2	31.3	55.4	74.7	96.4
167.5°	7.2	24.1	45.8	57.9	79.5
170°	7.2	19.3	36.2	41.0	60.3
172.5°	7.2	14.5	26.5	28.9	31.3
175°	7.2	12.1	16.9	16.9	9.6
177.5°	7.2	9.6	9.6	9.6	4.8
180°	4.8	4.8	4.8	4.8	4.8

(END OF REPORT)