

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: P567567

Luminaire Tested: **8SNX-174HL-LW-UNV-L935-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567567  
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-174HL-LW-UNV-L935-CD  
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

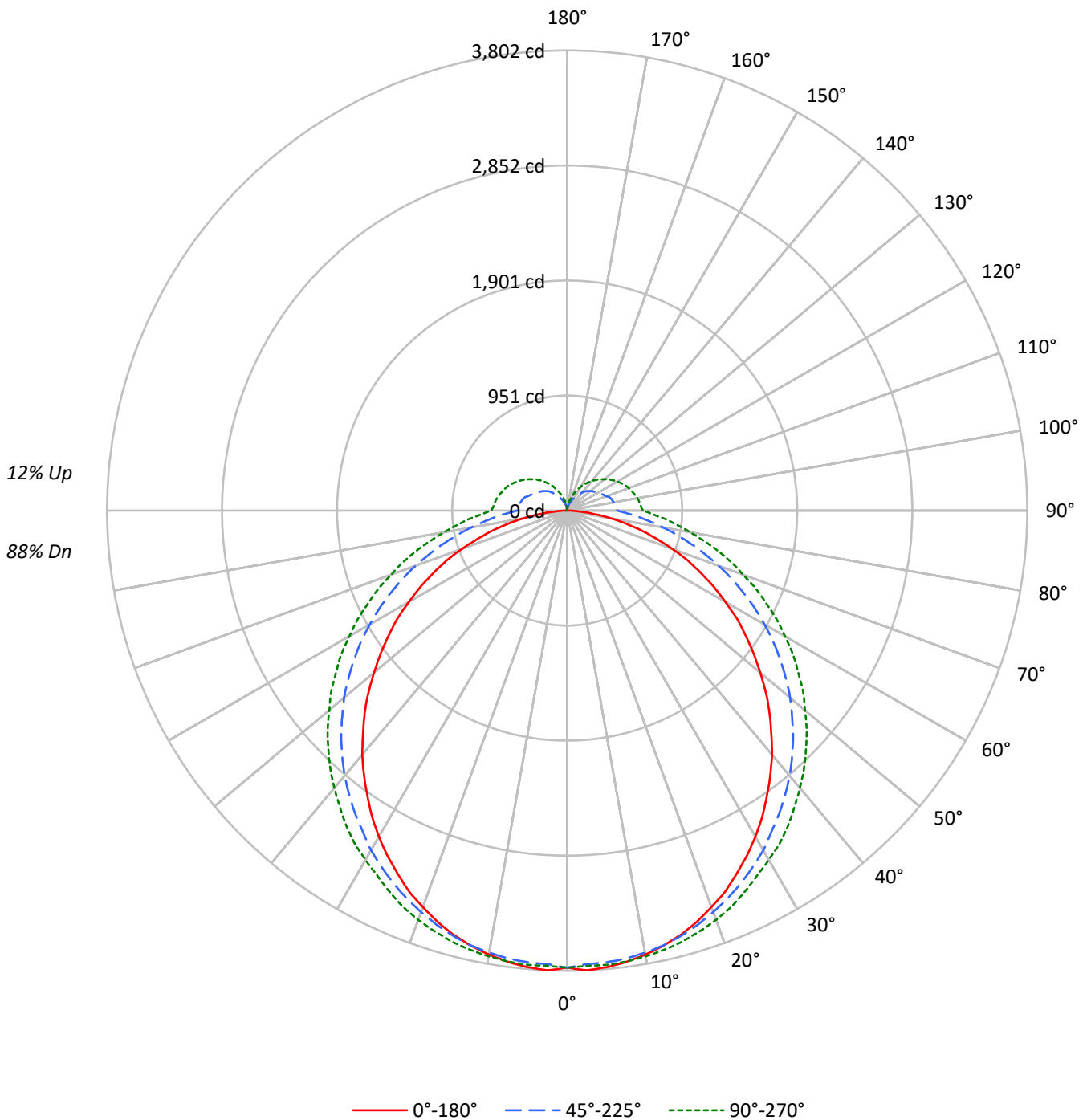
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13597.0 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: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 124.4  
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°	20326	20326	20326
5°	20417	19415	19232
10°	20285	18670	18287
15°	20101	17929	17424
20°	19814	17178	16591
25°	19473	16446	15737
30°	19102	15728	14952
35°	18636	14974	14247
40°	18184	14268	13480
45°	17638	13523	12749
50°	17007	12751	11972
55°	16401	11902	11203
60°	15700	11007	10376
65°	14845	10031	9519
70°	13759	8973	8592
75°	12219	7811	7704
80°	10067	6646	6687
85°	6967	5527	5838



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.5	2.6
10°-20°	1031.4	7.6
20°-30°	1569.0	11.5
30°-40°	1907.7	14.0
40°-50°	2018.3	14.8
50°-60°	1891.9	13.9
60°-70°	1556.4	11.4
70°-80°	1076.9	7.9
80°-90°	598.8	4.4
90°-100°	394.5	2.9
100°-110°	353.8	2.6
110°-120°	292.8	2.2
120°-130°	226.4	1.7
130°-140°	160.3	1.2
140°-150°	96.7	0.7
150°-160°	46.4	0.3
160°-170°	15.2	0.1
170°-180°	1.9	0.0
0°-30°	2958.9	21.8
0°-40°	4866.7	35.8
0°-60°	8776.9	64.6
0°-90°	12009.1	88.3
90°-120°	1041.1	7.7
90°-150°	1524.4	11.2
90°-180°	1588.0	11.7
0°-180°	13597.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3777	3777	3777	3777	3777	
5°	3786	3779	3746	3777	3767	359
15°	3628	3639	3637	3686	3686	1022
25°	3311	3358	3397	3472	3474	1526
35°	2878	2955	3055	3153	3181	1801
45°	2366	2489	2640	2759	2792	1823
55°	1800	1960	2149	2284	2331	1611
65°	1218	1392	1609	1767	1816	1207
75°	633	817	1057	1225	1292	672
85°	140	347	587	750	815	161
90°	2	196	414	570	626	9
95°	2	186	403	552	605	2
105°	2	161	377	519	566	2
115°	5	140	319	461	512	4
125°	5	119	272	394	442	4
135°	5	93	228	324	363	4
145°	5	68	158	244	275	3
155°	7	47	98	156	182	3
165°	7	30	54	72	93	2
175°	7	12	16	16	9	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3776.7	3776.7	3776.7	3776.7	3776.7
2.5°	3802.3	3790.7	3751.1	3776.7	3765.1
5°	3786.0	3779.0	3746.5	3776.7	3767.4
7.5°	3760.4	3758.1	3732.5	3767.4	3758.1
10°	3725.5	3730.2	3709.2	3746.5	3739.5
12.5°	3681.3	3688.2	3678.9	3720.8	3716.2
15°	3627.7	3639.3	3637.0	3685.9	3685.9
17.5°	3562.5	3578.8	3588.1	3644.0	3644.0
20°	3485.7	3511.3	3529.9	3590.4	3599.8
22.5°	3408.8	3439.1	3467.0	3529.9	3543.9
25°	3311.0	3357.6	3397.2	3471.7	3474.0
27.5°	3215.6	3266.8	3320.3	3392.5	3399.5
30°	3110.8	3176.0	3241.2	3311.0	3332.0
32.5°	2999.0	3071.2	3143.4	3236.5	3264.5
35°	2877.9	2954.8	3054.9	3152.7	3180.6
37.5°	2756.9	2843.0	2959.4	3059.6	3085.2
40°	2633.5	2728.9	2859.3	2961.8	2992.0
42.5°	2496.1	2612.5	2752.2	2861.6	2896.6
45°	2365.7	2489.1	2640.4	2759.2	2791.8
47.5°	2228.3	2358.7	2521.7	2647.4	2684.7
50°	2081.6	2230.6	2405.3	2531.0	2565.9
52.5°	1944.2	2095.6	2279.5	2409.9	2458.8
55°	1799.9	1960.5	2149.1	2284.2	2330.8
57.5°	1664.8	1818.5	2021.1	2156.1	2214.3
60°	1511.2	1681.1	1883.7	2030.4	2077.0
62.5°	1366.8	1539.1	1748.7	1900.0	1953.6
65°	1217.8	1392.4	1608.9	1767.3	1816.2
67.5°	1078.1	1250.4	1471.6	1627.6	1690.4
70°	924.4	1106.0	1331.9	1492.5	1546.1
72.5°	773.0	961.6	1192.2	1364.5	1425.0
75°	633.3	817.3	1057.1	1224.8	1292.3
77.5°	498.3	684.6	926.7	1099.0	1157.2
80°	363.2	558.8	805.6	975.6	1031.5
82.5°	239.8	444.7	689.2	859.2	919.7
85°	139.7	346.9	586.8	749.8	815.0
87.5°	60.5	263.1	491.3	652.0	705.5
90°	2.3	195.6	414.5	570.5	626.3
92.5°	2.3	190.9	405.1	558.8	612.4
95°	2.3	186.3	402.8	551.8	605.4
97.5°	2.3	183.9	398.2	547.2	598.4
100°	2.3	177.0	391.2	537.9	589.1
102.5°	2.3	167.6	384.2	528.6	577.5
105°	2.3	160.7	377.2	519.2	565.8
107.5°	2.3	153.7	365.6	507.6	554.2
110°	2.3	146.7	346.9	496.0	542.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	144.4	333.0	479.7	528.6
115°	4.7	139.7	319.0	461.0	512.3
117.5°	4.7	137.4	307.4	442.4	496.0
120°	4.7	130.4	295.7	426.1	477.3
122.5°	4.7	123.4	284.1	409.8	461.0
125°	4.7	118.8	272.4	393.5	442.4
127.5°	4.7	111.8	263.1	377.2	421.4
130°	4.7	107.1	251.5	358.6	402.8
132.5°	4.7	100.1	239.8	340.0	381.9
135°	4.7	93.1	228.2	323.7	363.2
137.5°	4.7	83.8	214.2	305.0	342.3
140°	4.7	76.8	195.6	286.4	321.3
142.5°	4.7	72.2	177.0	265.4	298.0
145°	4.7	67.5	158.3	244.5	274.8
147.5°	4.7	62.9	142.0	223.5	251.5
150°	4.7	55.9	125.7	204.9	228.2
152.5°	7.0	51.2	111.8	181.6	204.9
155°	7.0	46.6	97.8	156.0	181.6
157.5°	7.0	41.9	83.8	130.4	158.3
160°	7.0	37.3	72.2	107.1	135.0
162.5°	7.0	34.9	62.9	88.5	114.1
165°	7.0	30.3	53.6	72.2	93.1
167.5°	7.0	23.3	44.2	55.9	76.8
170°	7.0	18.6	34.9	39.6	58.2
172.5°	7.0	14.0	25.6	27.9	30.3
175°	7.0	11.6	16.3	16.3	9.3
177.5°	7.0	9.3	9.3	9.3	4.7
180°	4.7	4.7	4.7	4.7	4.7

(END OF REPORT)