

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: P567562

Luminaire Tested: **8SNX-174HL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567562  
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-L830-CD  
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

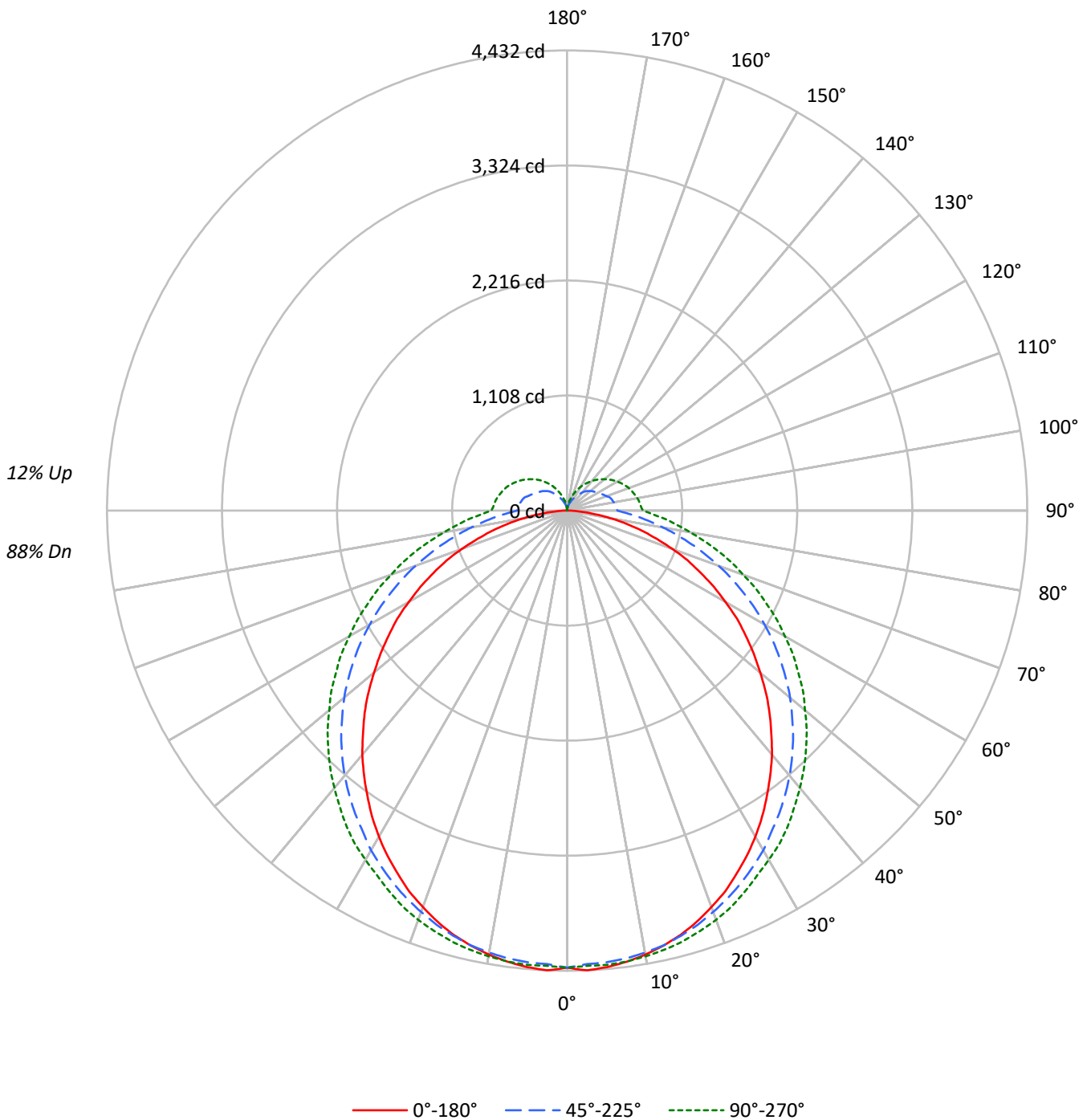
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15849.0 lumens  
Efficiency: N/A  
Efficacy: 127.4 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 (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°	23692	23692	23692
5°	23798	22630	22417
10°	23645	21762	21315
15°	23430	20899	20311
20°	23095	20022	19339
25°	22698	19169	18344
30°	22266	18333	17428
35°	21723	17454	16606
40°	21195	16631	15713
45°	20560	15763	14861
50°	19824	14863	13955
55°	19117	13874	13059
60°	18299	12831	12094
65°	17304	11693	11096
70°	16037	10459	10014
75°	14243	9104	8980
80°	11736	7747	7794
85°	8120	6441	6805



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.9	2.6
10°-20°	1202.2	7.6
20°-30°	1828.9	11.5
30°-40°	2223.7	14.0
40°-50°	2352.6	14.8
50°-60°	2205.3	13.9
60°-70°	1814.2	11.4
70°-80°	1255.3	7.9
80°-90°	698.0	4.4
90°-100°	459.9	2.9
100°-110°	412.4	2.6
110°-120°	341.3	2.2
120°-130°	263.9	1.7
130°-140°	186.8	1.2
140°-150°	112.7	0.7
150°-160°	54.1	0.3
160°-170°	17.7	0.1
170°-180°	2.2	0.0
0°-30°	3449.0	21.8
0°-40°	5672.7	35.8
0°-60°	10230.6	64.6
0°-90°	13998.2	88.3
90°-120°	1213.5	7.7
90°-150°	1776.9	11.2
90°-180°	1851.0	11.7
0°-180°	15849.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4402	4402	4402	4402	4402	
5°	4413	4405	4367	4402	4391	419
15°	4228	4242	4239	4296	4296	1192
25°	3859	3914	3960	4047	4049	1779
35°	3355	3444	3561	3675	3707	2099
45°	2758	2901	3078	3216	3254	2125
55°	2098	2285	2505	2662	2717	1878
65°	1420	1623	1875	2060	2117	1407
75°	738	953	1232	1428	1506	783
85°	163	404	684	874	950	187
90°	3	228	483	665	730	11
95°	3	217	470	643	706	2
105°	3	187	440	605	660	3
115°	5	163	372	537	597	4
125°	5	138	318	459	516	5
135°	5	109	266	377	423	4
145°	5	79	185	285	320	3
155°	8	54	114	182	212	4
165°	8	35	62	84	109	2
175°	8	14	19	19	11	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4402.2	4402.2	4402.2	4402.2	4402.2
2.5°	4432.1	4418.5	4372.4	4402.2	4388.7
5°	4413.1	4405.0	4367.0	4402.2	4391.4
7.5°	4383.2	4380.5	4350.7	4391.4	4380.5
10°	4342.5	4348.0	4323.5	4367.0	4358.8
12.5°	4291.0	4299.1	4288.2	4337.1	4331.7
15°	4228.5	4242.1	4239.4	4296.4	4296.4
17.5°	4152.5	4171.5	4182.4	4247.5	4247.5
20°	4063.0	4092.8	4114.5	4185.1	4196.0
22.5°	3973.4	4008.7	4041.3	4114.5	4130.8
25°	3859.4	3913.7	3959.8	4046.7	4049.4
27.5°	3748.1	3807.9	3870.3	3954.4	3962.6
30°	3626.0	3702.0	3778.0	3859.4	3883.8
32.5°	3495.7	3579.9	3664.0	3772.6	3805.1
35°	3354.6	3444.2	3560.9	3674.9	3707.4
37.5°	3213.5	3313.9	3449.6	3566.3	3596.2
40°	3069.6	3180.9	3332.9	3452.3	3487.6
42.5°	2909.5	3045.2	3208.0	3335.6	3376.3
45°	2757.5	2901.4	3077.8	3216.2	3254.2
47.5°	2597.4	2749.4	2939.3	3085.9	3129.3
50°	2426.4	2600.1	2803.6	2950.2	2990.9
52.5°	2266.3	2442.7	2657.1	2809.1	2866.1
55°	2098.0	2285.3	2505.1	2662.5	2716.8
57.5°	1940.6	2119.7	2355.8	2513.2	2581.1
60°	1761.4	1959.6	2195.7	2366.7	2421.0
62.5°	1593.2	1794.0	2038.3	2214.7	2277.1
65°	1419.5	1623.0	1875.4	2060.0	2117.0
67.5°	1256.6	1457.5	1715.3	1897.1	1970.4
70°	1077.5	1289.2	1552.5	1739.7	1802.1
72.5°	901.1	1120.9	1389.6	1590.5	1661.0
75°	738.2	952.6	1232.2	1427.6	1506.3
77.5°	580.8	797.9	1080.2	1281.0	1348.9
80°	423.4	651.4	939.1	1137.2	1202.3
82.5°	279.6	518.4	803.4	1001.5	1072.1
85°	162.8	404.4	683.9	873.9	949.9
87.5°	70.6	306.7	572.7	759.9	822.4
90°	2.7	228.0	483.1	664.9	730.1
92.5°	2.7	222.6	472.3	651.4	713.8
95°	2.7	217.1	469.5	643.2	705.7
97.5°	2.7	214.4	464.1	637.8	697.5
100°	2.7	206.3	456.0	627.0	686.7
102.5°	2.7	195.4	447.8	616.1	673.1
105°	2.7	187.3	439.7	605.2	659.5
107.5°	2.7	179.1	426.1	591.7	646.0
110°	2.7	171.0	404.4	578.1	632.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	168.3	388.1	559.1	616.1
115°	5.4	162.8	371.8	537.4	597.1
117.5°	5.4	160.1	358.3	515.7	578.1
120°	5.4	152.0	344.7	496.7	556.4
122.5°	5.4	143.8	331.1	477.7	537.4
125°	5.4	138.4	317.5	458.7	515.7
127.5°	5.4	130.3	306.7	439.7	491.2
130°	5.4	124.8	293.1	418.0	469.5
132.5°	5.4	116.7	279.6	396.3	445.1
135°	5.4	108.6	266.0	377.3	423.4
137.5°	5.4	97.7	249.7	355.5	399.0
140°	5.4	89.6	228.0	333.8	374.5
142.5°	5.4	84.1	206.3	309.4	347.4
145°	5.4	78.7	184.6	285.0	320.3
147.5°	5.4	73.3	165.6	260.6	293.1
150°	5.4	65.1	146.6	238.8	266.0
152.5°	8.1	59.7	130.3	211.7	238.8
155°	8.1	54.3	114.0	181.8	211.7
157.5°	8.1	48.9	97.7	152.0	184.6
160°	8.1	43.4	84.1	124.8	157.4
162.5°	8.1	40.7	73.3	103.1	133.0
165°	8.1	35.3	62.4	84.1	108.6
167.5°	8.1	27.1	51.6	65.1	89.6
170°	8.1	21.7	40.7	46.1	67.9
172.5°	8.1	16.3	29.9	32.6	35.3
175°	8.1	13.6	19.0	19.0	10.9
177.5°	8.1	10.9	10.9	10.9	5.4
180°	5.4	5.4	5.4	5.4	5.4

(END OF REPORT)