

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: P567559

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567559  
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-174HL-LN-UNV-L935-CD  
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

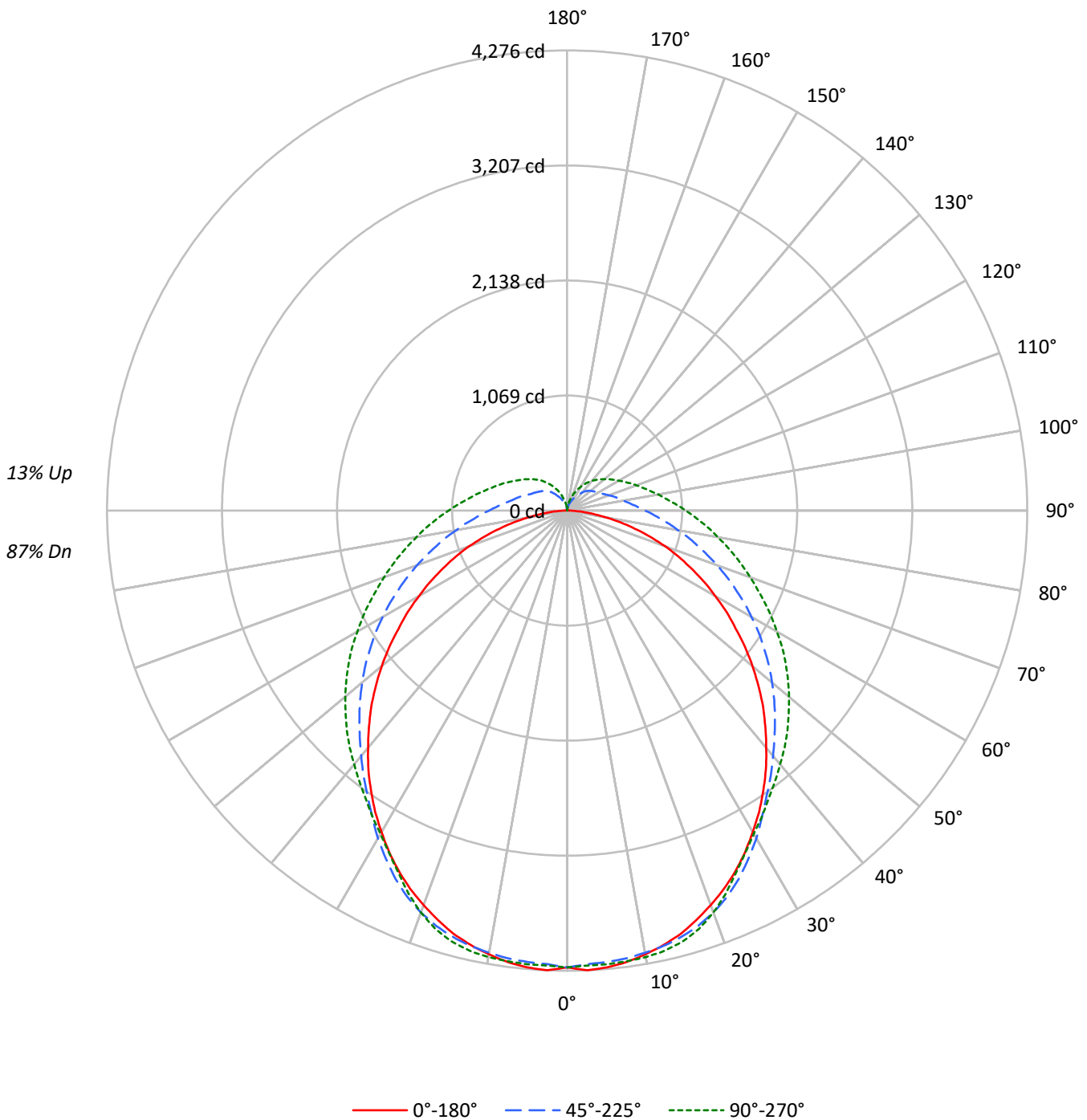
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15322.0 lumens  
Efficiency: N/A  
Efficacy: 123.2 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): 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	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°	22844	22844	22844
5°	22973	21820	21601
10°	22800	20998	20604
15°	22568	20220	19599
20°	22178	19340	18317
25°	21755	18271	16816
30°	21183	17067	15561
35°	20573	15839	14625
40°	19873	14854	13868
45°	19193	13982	13215
50°	18378	13179	12556
55°	17420	12372	11911
60°	16515	11567	11237
65°	15516	10754	10619
70°	14382	9993	10061
75°	12580	9251	9601
80°	10225	8614	9211
85°	7386	8171	8987



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.2	2.6
10°-20°	1159.3	7.6
20°-30°	1726.3	11.3
30°-40°	2036.9	13.3
40°-50°	2124.3	13.9
50°-60°	1996.3	13.0
60°-70°	1685.9	11.0
70°-80°	1273.8	8.3
80°-90°	878.1	5.7
90°-100°	614.5	4.0
100°-110°	458.5	3.0
110°-120°	345.7	2.3
120°-130°	257.8	1.7
130°-140°	181.0	1.2
140°-150°	109.4	0.7
150°-160°	52.3	0.3
160°-170°	16.8	0.1
170°-180°	2.0	0.0
0°-30°	3288.8	21.5
0°-40°	5325.7	34.8
0°-60°	9446.4	61.7
0°-90°	13284.1	86.7
90°-120°	1418.7	9.3
90°-150°	1966.8	12.8
90°-180°	2038.0	13.3
0°-180°	15322.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4244	4244	4244	4244	4244	
5°	4260	4252	4211	4242	4232	404
15°	4073	4091	4102	4154	4146	1147
25°	3699	3774	3774	3740	3712	1702
35°	3177	3294	3231	3257	3265	1987
45°	2574	2702	2730	2842	2894	1982
55°	1912	2076	2234	2413	2478	1715
65°	1273	1475	1725	1951	2026	1264
75°	652	904	1252	1514	1610	694
85°	148	465	868	1153	1255	166
90°	3	330	725	1003	1101	10
95°	3	257	613	878	969	2
105°	5	184	473	686	764	5
115°	5	158	366	546	616	5
125°	8	135	309	447	504	7
135°	8	104	257	364	408	6
145°	10	75	179	278	312	6
155°	10	49	109	177	205	5
165°	13	31	57	78	104	4
175°	13	13	16	16	8	1
180°	8	8	8	8	8	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4244.5	4244.5	4244.5	4244.5	4244.5
2.5°	4275.6	4265.3	4218.5	4244.5	4231.5
5°	4260.1	4252.3	4210.7	4241.9	4231.5
7.5°	4231.5	4228.9	4197.7	4234.1	4223.7
10°	4187.3	4195.1	4171.7	4221.1	4213.3
12.5°	4135.4	4151.0	4143.2	4197.7	4189.9
15°	4073.0	4091.2	4101.6	4153.6	4145.8
17.5°	3989.9	4023.7	4047.1	4088.6	4075.6
20°	3901.6	3948.4	3974.3	3995.1	3974.3
22.5°	3805.5	3867.8	3883.4	3873.0	3852.2
25°	3699.0	3774.3	3774.3	3740.5	3712.0
27.5°	3579.5	3673.0	3647.0	3608.1	3584.7
30°	3449.6	3561.3	3517.2	3473.0	3467.8
32.5°	3319.7	3436.6	3371.7	3361.3	3369.1
35°	3176.9	3293.8	3231.4	3257.4	3265.2
37.5°	3034.0	3150.9	3109.3	3148.3	3171.7
40°	2878.1	3002.8	2976.8	3047.0	3078.2
42.5°	2724.9	2854.8	2852.2	2943.1	2989.8
45°	2574.2	2701.5	2730.1	2841.8	2893.7
47.5°	2410.6	2540.5	2610.6	2740.5	2792.4
50°	2249.5	2389.8	2485.9	2631.4	2691.1
52.5°	2083.3	2231.3	2363.8	2524.9	2587.2
55°	1911.8	2075.5	2233.9	2413.2	2478.1
57.5°	1758.6	1924.8	2111.8	2296.3	2371.6
60°	1589.7	1774.2	1979.4	2174.2	2249.5
62.5°	1436.5	1626.1	1854.7	2059.9	2140.4
65°	1272.8	1475.4	1724.8	1950.8	2026.1
67.5°	1122.2	1330.0	1602.7	1831.3	1914.4
70°	966.3	1187.1	1483.2	1724.8	1810.5
72.5°	805.3	1039.0	1363.7	1620.9	1709.2
75°	652.0	904.0	1252.0	1514.4	1610.5
77.5°	509.1	774.1	1150.7	1420.9	1514.4
80°	368.9	657.2	1044.2	1324.8	1420.9
82.5°	244.2	555.9	958.5	1239.1	1340.4
85°	148.1	465.0	867.6	1153.3	1254.6
87.5°	67.5	389.6	794.9	1078.0	1176.7
90°	2.6	329.9	724.7	1002.7	1101.4
92.5°	2.6	288.3	667.6	937.7	1033.8
95°	2.6	257.2	613.0	878.0	968.9
97.5°	2.6	236.4	571.5	820.8	909.2
100°	2.6	215.6	529.9	768.9	859.8
102.5°	5.2	197.4	498.7	722.1	807.9
105°	5.2	184.4	472.8	685.8	763.7
107.5°	5.2	176.6	444.2	649.4	722.1
110°	5.2	168.8	413.0	613.0	685.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.2	163.6	389.6	581.9	652.0
115°	5.2	158.5	366.3	545.5	615.6
117.5°	5.2	155.9	353.3	516.9	584.5
120°	7.8	148.1	337.7	490.9	555.9
122.5°	7.8	140.3	322.1	470.2	527.3
125°	7.8	135.1	309.1	446.8	503.9
127.5°	7.8	127.3	296.1	426.0	478.0
130°	7.8	119.5	285.7	405.2	454.6
132.5°	7.8	111.7	272.7	384.4	431.2
135°	7.8	103.9	257.2	363.7	407.8
137.5°	7.8	96.1	241.6	342.9	384.4
140°	7.8	88.3	220.8	322.1	361.1
142.5°	7.8	80.5	200.0	301.3	335.1
145°	10.4	75.3	179.2	277.9	311.7
147.5°	10.4	67.5	158.5	254.6	283.1
150°	10.4	62.3	142.9	231.2	257.2
152.5°	10.4	54.5	127.3	205.2	231.2
155°	10.4	49.4	109.1	176.6	205.2
157.5°	10.4	44.2	93.5	148.1	179.2
160°	10.4	41.6	80.5	122.1	153.3
162.5°	13.0	36.4	67.5	98.7	127.3
165°	13.0	31.2	57.1	77.9	103.9
167.5°	13.0	26.0	46.8	59.7	80.5
170°	13.0	20.8	36.4	41.6	62.3
172.5°	13.0	15.6	26.0	28.6	31.2
175°	13.0	13.0	15.6	15.6	7.8
177.5°	13.0	13.0	10.4	7.8	2.6
180°	7.8	7.8	7.8	7.8	7.8

(END OF REPORT)