

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: P567410

Luminaire Tested: **8SNX-148HL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567410  
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-148HL-LN-UNV-L830-CD  
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

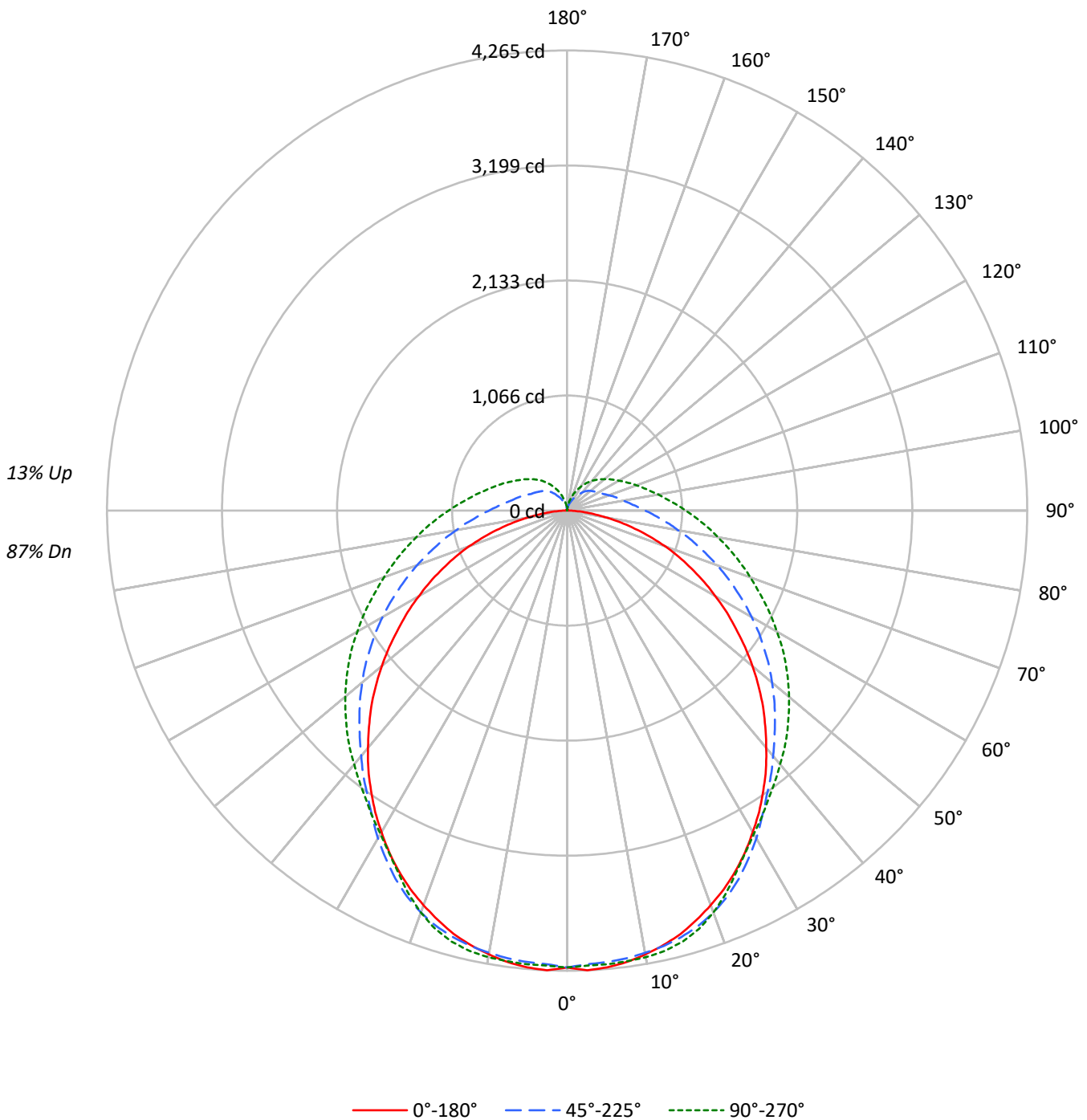
Lumens per Lamp: N/A  
Luminaire Lumens: 15285.0 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 103.6  
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°	22788	22788	22788
5°	22918	21767	21549
10°	22745	20948	20554
15°	22514	20171	19551
20°	22124	19293	18273
25°	21702	18227	16775
30°	21132	17026	15523
35°	20523	15801	14590
40°	19825	14819	13834
45°	19147	13948	13183
50°	18334	13147	12526
55°	17378	12342	11883
60°	16476	11539	11210
65°	15479	10728	10594
70°	14348	9968	10037
75°	12549	9229	9578
80°	10200	8593	9189
85°	7366	8151	8966



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.2	2.6
10°-20°	1156.5	7.6
20°-30°	1722.1	11.3
30°-40°	2032.0	13.3
40°-50°	2119.2	13.9
50°-60°	1991.5	13.0
60°-70°	1681.8	11.0
70°-80°	1270.7	8.3
80°-90°	875.9	5.7
90°-100°	613.0	4.0
100°-110°	457.4	3.0
110°-120°	344.8	2.3
120°-130°	257.2	1.7
130°-140°	180.5	1.2
140°-150°	109.1	0.7
150°-160°	52.2	0.3
160°-170°	16.7	0.1
170°-180°	2.0	0.0
0°-30°	3280.9	21.5
0°-40°	5312.9	34.8
0°-60°	9423.5	61.7
0°-90°	13252.0	86.7
90°-120°	1415.3	9.3
90°-150°	1962.1	12.8
90°-180°	2033.0	13.3
0°-180°	15285.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4234	4234	4234	4234	4234	
5°	4250	4242	4200	4232	4221	403
15°	4063	4081	4092	4144	4136	1144
25°	3690	3765	3765	3732	3703	1698
35°	3169	3286	3224	3250	3257	1982
45°	2568	2695	2724	2835	2887	1978
55°	1907	2070	2228	2407	2472	1711
65°	1270	1472	1721	1946	2021	1261
75°	650	902	1249	1511	1607	693
85°	148	464	866	1150	1252	166
90°	3	329	723	1000	1099	10
95°	3	256	612	876	967	2
105°	5	184	472	684	762	5
115°	5	158	365	544	614	5
125°	8	135	308	446	503	7
135°	8	104	256	363	407	6
145°	10	75	179	277	311	6
155°	10	49	109	176	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°	4234.2	4234.2	4234.2	4234.2	4234.2
2.5°	4265.3	4255.0	4208.3	4234.2	4221.3
5°	4249.8	4242.0	4200.5	4231.6	4221.3
7.5°	4221.3	4218.7	4187.6	4223.9	4213.5
10°	4177.2	4185.0	4161.7	4210.9	4203.1
12.5°	4125.4	4140.9	4133.2	4187.6	4179.8
15°	4063.2	4081.3	4091.7	4143.5	4135.8
17.5°	3980.3	4014.0	4037.3	4078.7	4065.8
20°	3892.2	3938.8	3964.7	3985.5	3964.7
22.5°	3796.3	3858.5	3874.0	3863.7	3842.9
25°	3690.1	3765.2	3765.2	3731.5	3703.0
27.5°	3570.8	3664.1	3638.2	3599.4	3576.0
30°	3441.3	3552.7	3508.7	3464.6	3459.4
32.5°	3311.7	3428.3	3363.5	3353.2	3361.0
35°	3169.2	3285.8	3223.6	3249.5	3257.3
37.5°	3026.7	3143.3	3101.8	3140.7	3164.0
40°	2871.2	2995.6	2969.7	3039.6	3070.7
42.5°	2718.3	2847.9	2845.3	2936.0	2982.6
45°	2568.0	2695.0	2723.5	2834.9	2886.7
47.5°	2404.8	2534.3	2604.3	2733.9	2785.7
50°	2244.1	2384.0	2479.9	2625.0	2684.6
52.5°	2078.2	2226.0	2358.1	2518.8	2581.0
55°	1907.2	2070.5	2228.5	2407.3	2472.1
57.5°	1754.3	1920.2	2106.7	2290.7	2365.9
60°	1585.9	1769.9	1974.6	2168.9	2244.1
62.5°	1433.0	1622.2	1850.2	2054.9	2135.3
65°	1269.8	1471.9	1720.6	1946.1	2021.2
67.5°	1119.5	1326.8	1598.8	1826.9	1909.8
70°	964.0	1184.2	1479.6	1720.6	1806.2
72.5°	803.3	1036.5	1360.4	1617.0	1705.1
75°	650.4	901.8	1249.0	1510.7	1606.6
77.5°	507.9	772.2	1148.0	1417.5	1510.7
80°	368.0	655.6	1041.7	1321.6	1417.5
82.5°	243.6	554.5	956.2	1236.1	1337.1
85°	147.7	463.8	865.5	1150.5	1251.6
87.5°	67.4	388.7	792.9	1075.4	1173.9
90°	2.6	329.1	723.0	1000.3	1098.7
92.5°	2.6	287.6	666.0	935.5	1031.3
95°	2.6	256.5	611.6	875.9	966.6
97.5°	2.6	235.8	570.1	818.9	907.0
100°	2.6	215.1	528.6	767.0	857.7
102.5°	5.2	196.9	497.5	720.4	805.9
105°	5.2	184.0	471.6	684.1	761.9
107.5°	5.2	176.2	443.1	647.8	720.4
110°	5.2	168.4	412.0	611.6	684.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.2	163.3	388.7	580.5	650.4
115°	5.2	158.1	365.4	544.2	614.1
117.5°	5.2	155.5	352.4	515.7	583.0
120°	7.8	147.7	336.9	489.8	554.5
122.5°	7.8	139.9	321.3	469.0	526.0
125°	7.8	134.7	308.4	445.7	502.7
127.5°	7.8	127.0	295.4	425.0	476.8
130°	7.8	119.2	285.0	404.2	453.5
132.5°	7.8	111.4	272.1	383.5	430.2
135°	7.8	103.7	256.5	362.8	406.8
137.5°	7.8	95.9	241.0	342.1	383.5
140°	7.8	88.1	220.3	321.3	360.2
142.5°	7.8	80.3	199.5	300.6	334.3
145°	10.4	75.1	178.8	277.3	311.0
147.5°	10.4	67.4	158.1	254.0	282.5
150°	10.4	62.2	142.5	230.6	256.5
152.5°	10.4	54.4	127.0	204.7	230.6
155°	10.4	49.2	108.8	176.2	204.7
157.5°	10.4	44.1	93.3	147.7	178.8
160°	10.4	41.5	80.3	121.8	152.9
162.5°	13.0	36.3	67.4	98.5	127.0
165°	13.0	31.1	57.0	77.7	103.7
167.5°	13.0	25.9	46.6	59.6	80.3
170°	13.0	20.7	36.3	41.5	62.2
172.5°	13.0	15.5	25.9	28.5	31.1
175°	13.0	13.0	15.5	15.5	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)