

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: P567421

Luminaire Tested: **8SNX-148HL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567421  
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-148HL-LW-UNV-L850-CD  
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

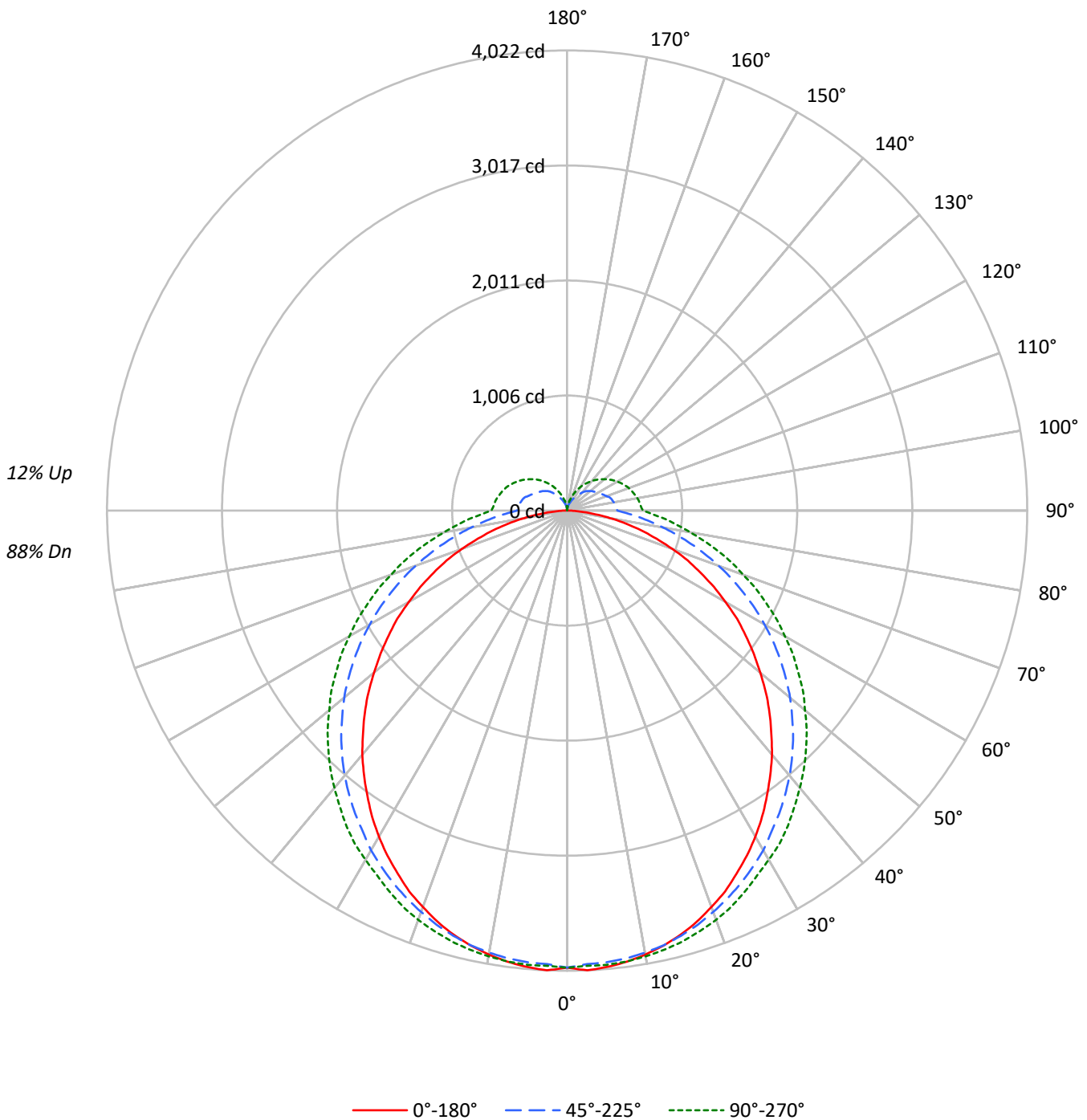
Lumens per Lamp: N/A  
Luminaire Lumens: 14382.0 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 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	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°	21500	21500	21500
5°	21596	20535	20342
10°	21456	19748	19342
15°	21261	18964	18430
20°	20957	18169	17549
25°	20597	17395	16646
30°	20205	16636	15815
35°	19713	15839	15069
40°	19234	15092	14258
45°	18657	14304	13485
50°	17989	13487	12663
55°	17348	12589	11850
60°	16606	11643	10975
65°	15702	10610	10069
70°	14553	9491	9087
75°	12925	8261	8149
80°	10649	7030	7073
85°	7371	5845	6175



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.2	2.6
10°-20°	1090.9	7.6
20°-30°	1659.6	11.5
30°-40°	2017.9	14.0
40°-50°	2134.9	14.8
50°-60°	2001.2	13.9
60°-70°	1646.3	11.4
70°-80°	1139.1	7.9
80°-90°	633.4	4.4
90°-100°	417.3	2.9
100°-110°	374.2	2.6
110°-120°	309.7	2.2
120°-130°	239.4	1.7
130°-140°	169.5	1.2
140°-150°	102.2	0.7
150°-160°	49.1	0.3
160°-170°	16.1	0.1
170°-180°	2.0	0.0
0°-30°	3129.7	21.8
0°-40°	5147.6	35.8
0°-60°	9283.7	64.6
0°-90°	12702.5	88.3
90°-120°	1101.2	7.7
90°-150°	1612.4	11.2
90°-180°	1680.0	11.7
0°-180°	14382.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3995	3995	3995	3995	3995	
5°	4005	3997	3963	3995	3985	380
15°	3837	3850	3847	3899	3899	1082
25°	3502	3551	3593	3672	3675	1614
35°	3044	3125	3231	3335	3364	1905
45°	2502	2633	2793	2918	2953	1929
55°	1904	2074	2273	2416	2465	1704
65°	1288	1473	1702	1869	1921	1277
75°	670	864	1118	1296	1367	711
85°	148	367	621	793	862	170
90°	2	207	438	603	662	10
95°	2	197	426	584	640	2
105°	2	170	399	549	598	3
115°	5	148	337	488	542	4
125°	5	126	288	416	468	4
135°	5	98	241	342	384	4
145°	5	71	168	259	291	3
155°	7	49	103	165	192	3
165°	7	32	57	76	98	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°	3994.8	3994.8	3994.8	3994.8	3994.8
2.5°	4021.9	4009.5	3967.7	3994.8	3982.4
5°	4004.6	3997.2	3962.7	3994.8	3984.9
7.5°	3977.5	3975.1	3948.0	3984.9	3975.1
10°	3940.6	3945.5	3923.3	3962.7	3955.4
12.5°	3893.8	3901.2	3891.3	3935.7	3930.7
15°	3837.1	3849.5	3847.0	3898.7	3898.7
17.5°	3768.2	3785.4	3795.3	3854.4	3854.4
20°	3686.9	3714.0	3733.7	3797.7	3807.6
22.5°	3605.6	3637.6	3667.2	3733.7	3748.5
25°	3502.2	3551.4	3593.3	3672.1	3674.6
27.5°	3401.2	3455.4	3512.0	3588.4	3595.8
30°	3290.4	3359.3	3428.3	3502.2	3524.4
32.5°	3172.2	3248.5	3324.9	3423.4	3452.9
35°	3044.1	3125.4	3231.3	3334.7	3364.3
37.5°	2916.0	3007.2	3130.3	3236.2	3263.3
40°	2785.5	2886.5	3024.4	3132.8	3164.8
42.5°	2640.2	2763.3	2911.1	3026.9	3063.8
45°	2502.3	2632.8	2792.9	2918.5	2953.0
47.5°	2357.0	2494.9	2667.3	2800.3	2839.7
50°	2201.8	2359.4	2544.1	2677.1	2714.1
52.5°	2056.5	2216.6	2411.1	2549.1	2600.8
55°	1903.8	2073.7	2273.2	2416.1	2465.3
57.5°	1760.9	1923.5	2137.8	2280.6	2342.2
60°	1598.4	1778.2	1992.5	2147.6	2196.9
62.5°	1445.7	1628.0	1849.6	2009.7	2066.3
65°	1288.1	1472.8	1701.8	1869.3	1921.0
67.5°	1140.3	1322.6	1556.5	1721.5	1788.0
70°	977.8	1169.9	1408.8	1578.7	1635.3
72.5°	817.7	1017.2	1261.0	1443.2	1507.3
75°	669.9	864.5	1118.1	1295.5	1366.9
77.5°	527.1	724.1	980.2	1162.5	1224.0
80°	384.2	591.1	852.2	1031.9	1091.0
82.5°	253.7	470.4	729.0	908.8	972.8
85°	147.8	367.0	620.6	793.0	862.0
87.5°	64.0	278.3	519.7	689.6	746.2
90°	2.5	206.9	438.4	603.4	662.5
92.5°	2.5	202.0	428.5	591.1	647.7
95°	2.5	197.0	426.1	583.7	640.3
97.5°	2.5	194.6	421.1	578.8	633.0
100°	2.5	187.2	413.8	568.9	623.1
102.5°	2.5	177.3	406.4	559.1	610.8
105°	2.5	169.9	399.0	549.2	598.5
107.5°	2.5	162.5	386.7	536.9	586.2
110°	2.5	155.2	367.0	524.6	573.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	152.7	352.2	507.3	559.1
115°	4.9	147.8	337.4	487.6	541.8
117.5°	4.9	145.3	325.1	467.9	524.6
120°	4.9	137.9	312.8	450.7	504.9
122.5°	4.9	130.5	300.5	433.5	487.6
125°	4.9	125.6	288.2	416.2	467.9
127.5°	4.9	118.2	278.3	399.0	445.8
130°	4.9	113.3	266.0	379.3	426.1
132.5°	4.9	105.9	253.7	359.6	403.9
135°	4.9	98.5	241.4	342.3	384.2
137.5°	4.9	88.7	226.6	322.6	362.0
140°	4.9	81.3	206.9	302.9	339.9
142.5°	4.9	76.3	187.2	280.8	315.2
145°	4.9	71.4	167.5	258.6	290.6
147.5°	4.9	66.5	150.2	236.4	266.0
150°	4.9	59.1	133.0	216.7	241.4
152.5°	7.4	54.2	118.2	192.1	216.7
155°	7.4	49.3	103.4	165.0	192.1
157.5°	7.4	44.3	88.7	137.9	167.5
160°	7.4	39.4	76.3	113.3	142.8
162.5°	7.4	36.9	66.5	93.6	120.7
165°	7.4	32.0	56.6	76.3	98.5
167.5°	7.4	24.6	46.8	59.1	81.3
170°	7.4	19.7	36.9	41.9	61.6
172.5°	7.4	14.8	27.1	29.6	32.0
175°	7.4	12.3	17.2	17.2	9.9
177.5°	7.4	9.9	9.9	9.9	4.9
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)