

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: P567514

Luminaire Tested: **8SNX-168HL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567514  
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-168HL-LW-UNV-L830-CD  
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

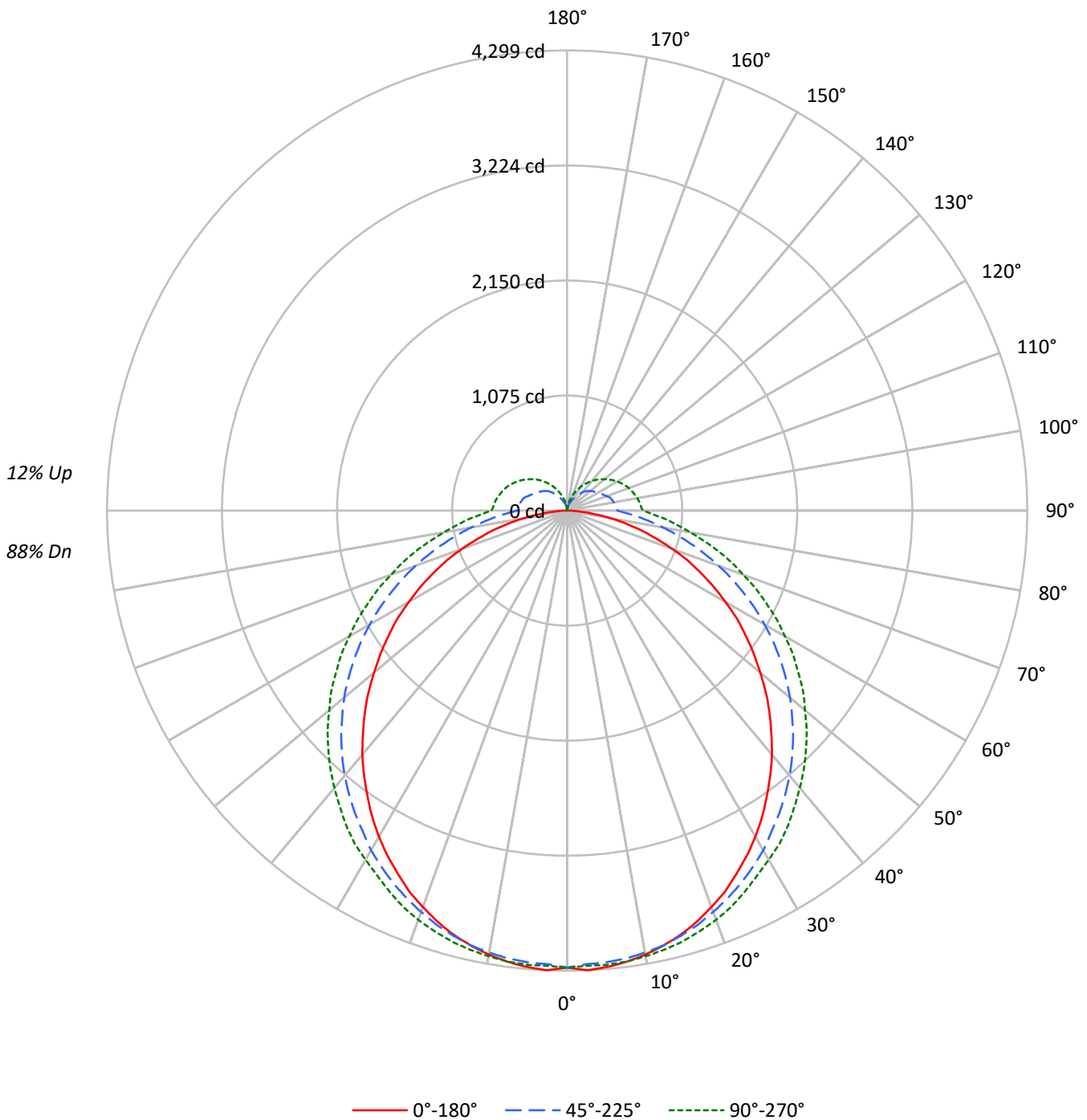
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15372.0 lumens  
Efficiency: N/A  
Efficacy: 132.7 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): 115.8  
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°	22979	22979	22979
5°	23082	21949	21742
10°	22933	21108	20674
15°	22725	20270	19699
20°	22400	19420	18757
25°	22015	18593	17792
30°	21596	17781	16904
35°	21069	16929	16107
40°	20557	16131	15240
45°	19941	15288	14413
50°	19227	14416	13535
55°	18541	13456	12666
60°	17749	12444	11730
65°	16782	11341	10762
70°	15555	10144	9713
75°	13815	8830	8710
80°	11384	7514	7560
85°	7875	6248	6600



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.3	2.6
10°-20°	1166.0	7.6
20°-30°	1773.8	11.5
30°-40°	2156.8	14.0
40°-50°	2281.8	14.8
50°-60°	2138.9	13.9
60°-70°	1759.6	11.4
70°-80°	1217.5	7.9
80°-90°	677.0	4.4
90°-100°	446.0	2.9
100°-110°	399.9	2.6
110°-120°	331.0	2.2
120°-130°	255.9	1.7
130°-140°	181.2	1.2
140°-150°	109.3	0.7
150°-160°	52.5	0.3
160°-170°	17.2	0.1
170°-180°	2.1	0.0
0°-30°	3345.2	21.8
0°-40°	5502.0	35.8
0°-60°	9922.7	64.6
0°-90°	13576.9	88.3
90°-120°	1177.0	7.7
90°-150°	1723.4	11.2
90°-180°	1795.0	11.7
0°-180°	15372.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4270	4270	4270	4270	4270	
5°	4280	4272	4236	4270	4259	406
15°	4101	4114	4112	4167	4167	1156
25°	3743	3796	3841	3925	3928	1725
35°	3254	3340	3454	3564	3596	2036
45°	2674	2814	2985	3119	3156	2061
55°	2035	2216	2430	2582	2635	1822
65°	1377	1574	1819	1998	2053	1365
75°	716	924	1195	1385	1461	760
85°	158	392	663	848	921	182
90°	3	221	469	645	708	10
95°	3	211	455	624	684	2
105°	3	182	426	587	640	3
115°	5	158	361	521	579	4
125°	5	134	308	445	500	5
135°	5	105	258	366	411	4
145°	5	76	179	276	311	3
155°	8	53	111	176	205	3
165°	8	34	60	82	105	2
175°	8	13	18	18	10	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4269.7	4269.7	4269.7	4269.7	4269.7
2.5°	4298.7	4285.5	4240.8	4269.7	4256.6
5°	4280.3	4272.4	4235.5	4269.7	4259.2
7.5°	4251.3	4248.7	4219.7	4259.2	4248.7
10°	4211.8	4217.1	4193.4	4235.5	4227.6
12.5°	4161.8	4169.7	4159.2	4206.6	4201.3
15°	4101.3	4114.4	4111.8	4167.1	4167.1
17.5°	4027.6	4046.0	4056.5	4119.7	4119.7
20°	3940.7	3969.7	3990.7	4059.2	4069.7
22.5°	3853.8	3888.0	3919.6	3990.7	4006.5
25°	3743.3	3795.9	3840.7	3924.9	3927.5
27.5°	3635.3	3693.3	3753.8	3835.4	3843.3
30°	3516.9	3590.6	3664.3	3743.3	3767.0
32.5°	3390.5	3472.1	3553.7	3659.0	3690.6
35°	3253.6	3340.5	3453.7	3564.3	3595.9
37.5°	3116.8	3214.2	3345.8	3459.0	3487.9
40°	2977.2	3085.2	3232.6	3348.4	3382.6
42.5°	2821.9	2953.5	3111.5	3235.2	3274.7
45°	2674.5	2814.0	2985.1	3119.4	3156.2
47.5°	2519.2	2666.6	2850.9	2993.0	3035.2
50°	2353.4	2521.8	2719.3	2861.4	2900.9
52.5°	2198.1	2369.2	2577.1	2724.5	2779.8
55°	2034.8	2216.5	2429.7	2582.4	2635.0
57.5°	1882.2	2055.9	2284.9	2437.6	2503.4
60°	1708.4	1900.6	2129.6	2295.4	2348.1
62.5°	1545.2	1740.0	1976.9	2148.0	2208.6
65°	1376.7	1574.2	1819.0	1998.0	2053.3
67.5°	1218.8	1413.6	1663.7	1840.0	1911.1
70°	1045.1	1250.4	1505.7	1687.4	1747.9
72.5°	874.0	1087.2	1347.8	1542.6	1611.0
75°	716.0	924.0	1195.1	1384.6	1461.0
77.5°	563.3	773.9	1047.7	1242.5	1308.3
80°	410.7	631.8	910.8	1103.0	1166.2
82.5°	271.1	502.8	779.2	971.4	1039.8
85°	157.9	392.2	663.4	847.6	921.3
87.5°	68.4	297.5	555.4	737.1	797.6
90°	2.6	221.1	468.6	644.9	708.1
92.5°	2.6	215.9	458.0	631.8	692.3
95°	2.6	210.6	455.4	623.9	684.4
97.5°	2.6	208.0	450.1	618.6	676.5
100°	2.6	200.1	442.2	608.1	666.0
102.5°	2.6	189.5	434.3	597.6	652.8
105°	2.6	181.6	426.4	587.0	639.7
107.5°	2.6	173.7	413.3	573.9	626.5
110°	2.6	165.8	392.2	560.7	613.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	163.2	376.4	542.3	597.6
115°	5.3	157.9	360.6	521.2	579.1
117.5°	5.3	155.3	347.5	500.2	560.7
120°	5.3	147.4	334.3	481.7	539.6
122.5°	5.3	139.5	321.2	463.3	521.2
125°	5.3	134.3	308.0	444.9	500.2
127.5°	5.3	126.4	297.5	426.4	476.5
130°	5.3	121.1	284.3	405.4	455.4
132.5°	5.3	113.2	271.1	384.3	431.7
135°	5.3	105.3	258.0	365.9	410.7
137.5°	5.3	94.8	242.2	344.8	387.0
140°	5.3	86.9	221.1	323.8	363.3
142.5°	5.3	81.6	200.1	300.1	336.9
145°	5.3	76.3	179.0	276.4	310.6
147.5°	5.3	71.1	160.6	252.7	284.3
150°	5.3	63.2	142.1	231.7	258.0
152.5°	7.9	57.9	126.4	205.3	231.7
155°	7.9	52.6	110.6	176.4	205.3
157.5°	7.9	47.4	94.8	147.4	179.0
160°	7.9	42.1	81.6	121.1	152.7
162.5°	7.9	39.5	71.1	100.0	129.0
165°	7.9	34.2	60.5	81.6	105.3
167.5°	7.9	26.3	50.0	63.2	86.9
170°	7.9	21.1	39.5	44.8	65.8
172.5°	7.9	15.8	29.0	31.6	34.2
175°	7.9	13.2	18.4	18.4	10.5
177.5°	7.9	10.5	10.5	10.5	5.3
180°	5.3	5.3	5.3	5.3	5.3

(END OF REPORT)