

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: P567253

Luminaire Tested: **8SNX-120SL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567253  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-120SL-FDL-UNV-L850-CD  
Description: 8FT 12000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

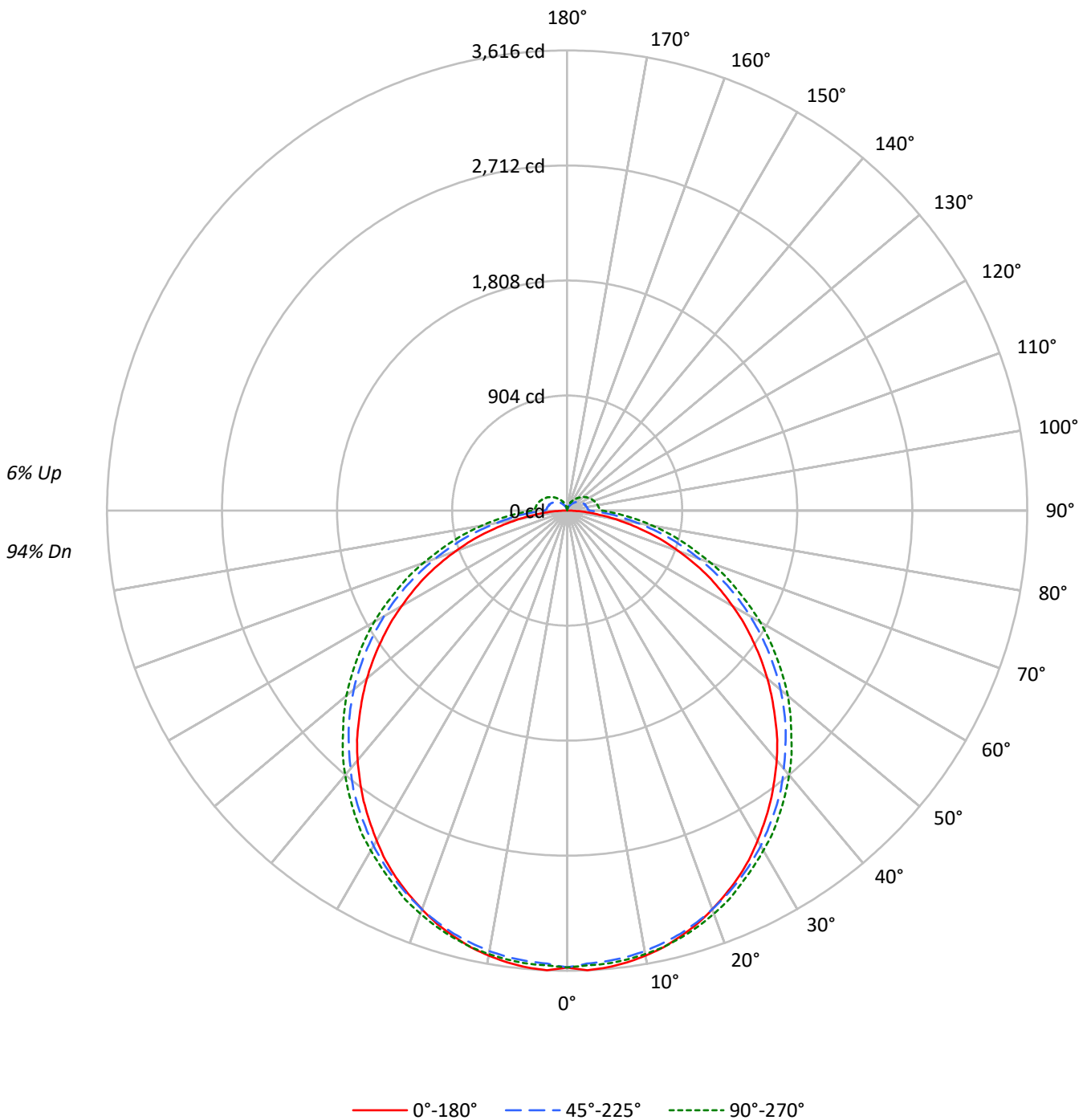
Lumens per Lamp: N/A  
Luminaire Lumens: 11408.0 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')  
CIE Type: Direct

Input Watts (W): 84  
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	97	93	103	99	95	91	93	90	87	88	86	83	84	82	80	77
2	97	88	81	75	93	86	79	74	81	76	71	77	73	69	73	69	66	64
3	88	77	69	62	85	75	67	61	71	65	59	68	62	57	64	60	56	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39
6	68	55	46	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	19321	19321	19321
5°	19462	19007	19029
10°	19391	18807	18791
15°	19255	18575	18522
20°	19066	18293	18206
25°	18849	17983	17832
30°	18550	17667	17488
35°	18250	17296	17128
40°	17919	16885	16723
45°	17499	16480	16250
50°	17096	16016	15819
55°	16595	15442	15220
60°	16034	14784	14630
65°	15444	14000	13816
70°	14417	13012	12974
75°	13187	11849	11965
80°	11373	10304	10847
85°	9185	8982	9534



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.4	3.0
10°-20°	976.9	8.6
20°-30°	1480.5	13.0
30°-40°	1787.2	15.7
40°-50°	1866.3	16.4
50°-60°	1714.6	15.0
60°-70°	1355.9	11.9
70°-80°	858.1	7.5
80°-90°	368.9	3.2
90°-100°	162.3	1.4
100°-110°	145.3	1.3
110°-120°	122.7	1.1
120°-130°	95.7	0.8
130°-140°	66.2	0.6
140°-150°	39.7	0.3
150°-160°	19.4	0.2
160°-170°	6.7	0.1
170°-180°	1.0	0.0
0°-30°	2797.9	24.5
0°-40°	4585.1	40.2
0°-60°	8166.1	71.6
0°-90°	10748.9	94.2
90°-120°	430.4	3.8
90°-150°	632.0	5.5
90°-180°	659.0	5.8
0°-180°	11408.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3590	3590	3590	3590	3590	
5°	3604	3594	3556	3586	3574	342
15°	3461	3461	3442	3479	3473	976
25°	3182	3196	3200	3242	3236	1465
35°	2788	2820	2857	2901	2911	1743
45°	2311	2368	2428	2475	2491	1785
55°	1782	1854	1931	1994	2008	1594
65°	1226	1295	1386	1450	1473	1208
75°	646	723	828	899	933	685
85°	158	242	348	422	448	174
90°	10	87	178	248	275	13
95°	2	75	162	226	250	2
105°	2	69	152	212	234	2
115°	2	59	137	192	212	2
125°	4	52	115	166	184	4
135°	4	40	93	131	148	3
145°	4	30	65	99	109	3
155°	4	20	42	63	75	2
165°	6	14	22	30	42	2
175°	6	8	10	10	6	1
180°	6	6	6	6	6	



TEST NUMBER: P567253

CATALOG NUMBER: 8SNX-120SL-FDL-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3589.9	3589.9	3589.9	3589.9	3589.9
2.5°	3616.1	3604.0	3563.6	3591.9	3577.8
5°	3604.0	3593.9	3555.5	3585.8	3573.7
7.5°	3581.8	3573.7	3539.4	3571.7	3559.6
10°	3551.5	3545.4	3515.1	3547.5	3539.4
12.5°	3513.1	3511.1	3480.8	3517.2	3511.1
15°	3460.6	3460.6	3442.4	3478.8	3472.7
17.5°	3404.0	3406.0	3391.9	3430.3	3426.2
20°	3335.3	3345.4	3335.3	3375.7	3371.7
22.5°	3260.6	3274.7	3270.7	3311.1	3313.1
25°	3181.8	3195.9	3200.0	3242.4	3236.3
27.5°	3094.9	3117.2	3125.2	3163.6	3161.6
30°	2993.9	3024.2	3042.4	3074.7	3084.8
32.5°	2890.9	2927.3	2949.5	2993.9	3006.0
35°	2787.9	2820.2	2856.6	2901.0	2911.1
37.5°	2674.7	2711.1	2759.6	2802.0	2814.1
40°	2561.6	2602.0	2648.5	2694.9	2713.1
42.5°	2444.4	2486.9	2537.4	2591.9	2610.1
45°	2311.1	2367.7	2428.3	2474.7	2490.9
47.5°	2183.8	2246.5	2311.1	2361.6	2379.8
50°	2054.5	2121.2	2189.9	2236.4	2264.6
52.5°	1919.2	1991.9	2060.6	2119.2	2137.4
55°	1781.8	1854.5	1931.3	1993.9	2008.1
57.5°	1648.5	1719.2	1796.0	1854.5	1882.8
60°	1503.0	1579.8	1662.6	1721.2	1751.5
62.5°	1361.6	1436.4	1525.2	1587.9	1612.1
65°	1226.3	1294.9	1385.9	1450.5	1472.7
67.5°	1076.8	1155.6	1242.4	1317.2	1345.4
70°	929.3	1004.0	1103.0	1173.7	1202.0
72.5°	791.9	864.6	963.6	1034.3	1060.6
75°	646.5	723.2	828.3	899.0	933.3
77.5°	507.1	591.9	692.9	769.7	808.1
80°	377.8	452.5	561.6	646.5	680.8
82.5°	256.6	337.4	450.5	529.3	567.7
85°	157.6	242.4	347.5	422.2	448.5
87.5°	74.7	155.6	252.5	325.3	357.6
90°	10.1	86.9	177.8	248.5	274.7
92.5°	2.0	74.7	163.6	230.3	254.5
95°	2.0	74.7	161.6	226.3	250.5
97.5°	2.0	72.7	159.6	224.2	246.5
100°	2.0	70.7	157.6	220.2	244.4
102.5°	2.0	70.7	153.5	216.2	238.4
105°	2.0	68.7	151.5	212.1	234.3
107.5°	2.0	66.7	147.5	208.1	230.3
110°	2.0	62.6	145.5	202.0	224.2



TEST NUMBER: P567253

CATALOG NUMBER: 8SNX-120SL-FDL-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	60.6	141.4	198.0	218.2
115°	2.0	58.6	137.4	191.9	212.1
117.5°	2.0	56.6	131.3	185.9	206.1
120°	4.0	56.6	127.3	179.8	198.0
122.5°	4.0	54.5	121.2	171.7	189.9
125°	4.0	52.5	115.2	165.7	183.8
127.5°	4.0	50.5	109.1	157.6	173.7
130°	4.0	46.5	105.1	149.5	165.7
132.5°	4.0	44.4	99.0	139.4	155.6
135°	4.0	40.4	92.9	131.3	147.5
137.5°	4.0	38.4	86.9	123.2	137.4
140°	4.0	36.4	78.8	115.2	129.3
142.5°	4.0	32.3	72.7	107.1	119.2
145°	4.0	30.3	64.6	99.0	109.1
147.5°	4.0	26.3	58.6	90.9	101.0
150°	4.0	24.2	52.5	82.8	92.9
152.5°	4.0	22.2	46.5	72.7	82.8
155°	4.0	20.2	42.4	62.6	74.7
157.5°	4.0	18.2	36.4	54.5	66.7
160°	6.1	16.2	32.3	46.5	56.6
162.5°	6.1	14.1	26.3	38.4	50.5
165°	6.1	14.1	22.2	30.3	42.4
167.5°	6.1	12.1	18.2	24.2	34.3
170°	6.1	10.1	16.2	18.2	26.3
172.5°	6.1	8.1	12.1	12.1	14.1
175°	6.1	8.1	10.1	10.1	6.1
177.5°	6.1	6.1	6.1	6.1	4.0
180°	6.1	6.1	6.1	6.1	6.1

(END OF REPORT)