

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: P567684

Luminaire Tested: **8SNX-200HL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567684  
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-200HL-FDL-UNV-L840-CD  
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

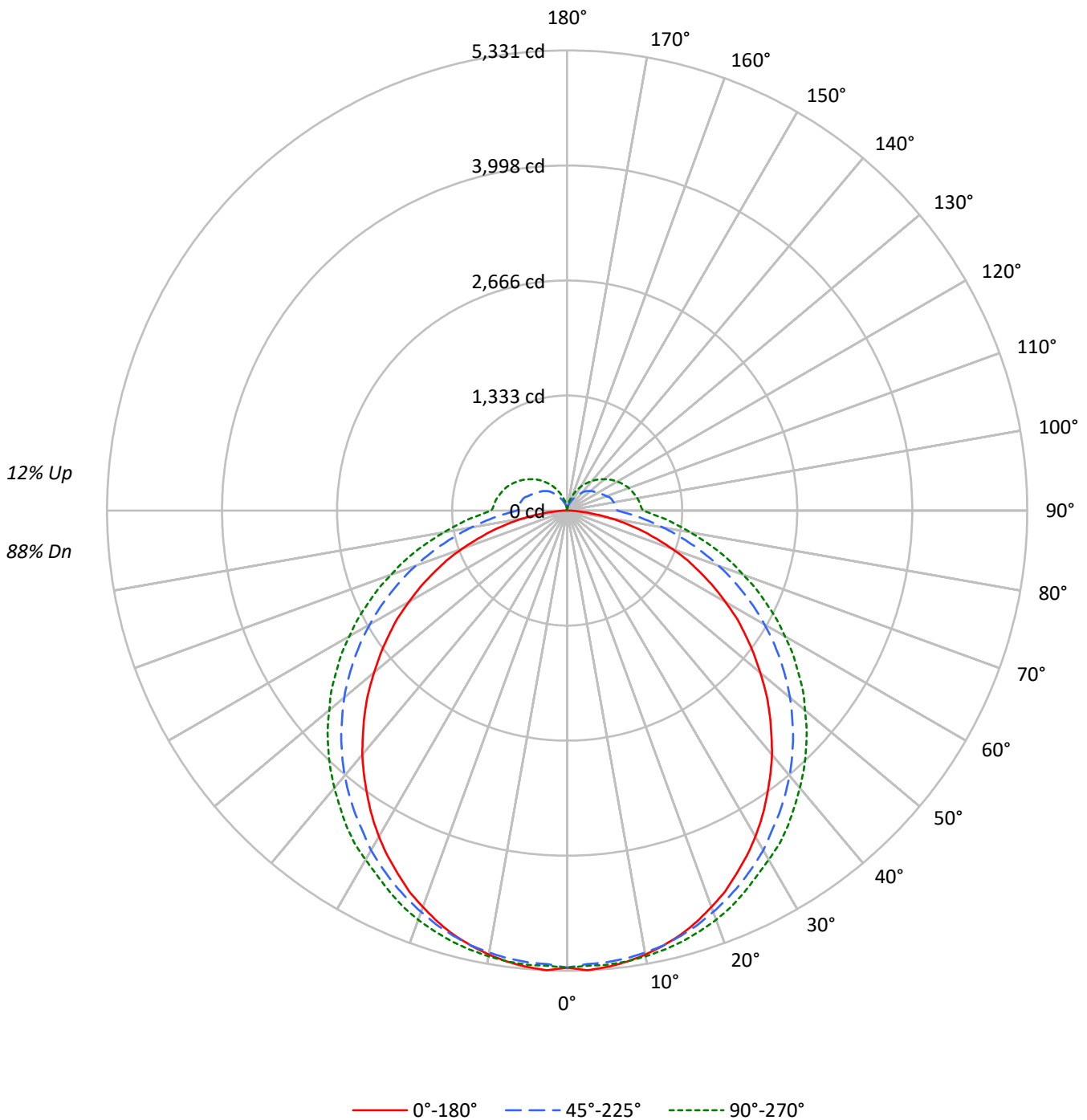
Lumens per Lamp: N/A  
Luminaire Lumens: 19062.0 lumens  
Efficiency: N/A  
Efficacy: 131.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')  
CIE Type: Semi-Direct

Input Watts (W): 145  
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			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°	28496	28496	28496
5°	28662	28077	28124
10°	28517	27822	27832
15°	28298	27514	27561
20°	27934	27142	27251
25°	27498	26765	26836
30°	27021	26387	26481
35°	26412	25932	26235
40°	25825	25557	25854
45°	25112	25121	25534
50°	24284	24661	25128
55°	23502	24089	24766
60°	22599	23482	24321
65°	21501	22786	23887
70°	20104	22027	23395
75°	18111	21201	23226
80°	15329	20722	23041
85°	11417	21261	24286



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.7	2.6
10°-20°	1445.9	7.6
20°-30°	2199.6	11.5
30°-40°	2674.5	14.0
40°-50°	2829.6	14.8
50°-60°	2652.3	13.9
60°-70°	2182.0	11.4
70°-80°	1509.8	7.9
80°-90°	839.5	4.4
90°-100°	553.1	2.9
100°-110°	496.0	2.6
110°-120°	410.5	2.2
120°-130°	317.3	1.7
130°-140°	224.7	1.2
140°-150°	135.5	0.7
150°-160°	65.1	0.3
160°-170°	21.3	0.1
170°-180°	2.6	0.0
0°-30°	4148.2	21.8
0°-40°	6822.7	35.8
0°-60°	12304.6	64.6
0°-90°	16835.9	88.3
90°-120°	1459.5	7.7
90°-150°	2137.1	11.2
90°-180°	2226.0	11.7
0°-180°	19062.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5295	5295	5295	5295	5295	
5°	5308	5298	5252	5295	5282	504
15°	5086	5102	5099	5167	5167	1433
25°	4642	4707	4763	4867	4870	2140
35°	4035	4142	4283	4420	4459	2525
45°	3316	3490	3702	3868	3914	2556
55°	2523	2748	3013	3202	3268	2259
65°	1707	1952	2256	2478	2546	1693
75°	888	1146	1482	1717	1812	942
85°	196	486	823	1051	1142	225
90°	3	274	581	800	878	13
95°	3	261	565	774	849	3
105°	3	225	529	728	793	3
115°	6	196	447	646	718	5
125°	6	166	382	552	620	6
135°	6	131	320	454	509	5
145°	6	95	222	343	385	4
155°	10	65	137	219	255	4
165°	10	42	75	101	131	3
175°	10	16	23	23	13	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5294.7	5294.7	5294.7	5294.7	5294.7
2.5°	5330.6	5314.3	5258.8	5294.7	5278.4
5°	5307.7	5298.0	5252.3	5294.7	5281.6
7.5°	5271.8	5268.6	5232.7	5281.6	5268.6
10°	5222.9	5229.4	5200.0	5252.3	5242.5
12.5°	5160.9	5170.6	5157.6	5216.3	5209.8
15°	5085.8	5102.1	5098.8	5167.4	5167.4
17.5°	4994.4	5017.2	5030.3	5108.6	5108.6
20°	4886.6	4922.6	4948.7	5033.5	5046.6
22.5°	4778.9	4821.4	4860.5	4948.7	4968.3
25°	4641.8	4707.1	4762.6	4867.1	4870.3
27.5°	4508.0	4579.8	4654.9	4756.1	4765.9
30°	4361.1	4452.5	4543.9	4641.8	4671.2
32.5°	4204.4	4305.6	4406.8	4537.4	4576.5
35°	4034.7	4142.4	4282.8	4419.9	4459.0
37.5°	3864.9	3985.7	4148.9	4289.3	4325.2
40°	3691.9	3825.8	4008.6	4152.2	4194.6
42.5°	3499.3	3662.5	3858.4	4011.8	4060.8
45°	3316.5	3489.5	3701.7	3868.2	3913.9
47.5°	3123.9	3306.7	3535.2	3711.5	3763.7
50°	2918.3	3127.2	3372.0	3548.3	3597.3
52.5°	2725.7	2937.9	3195.7	3378.5	3447.1
55°	2523.3	2748.5	3012.9	3202.3	3267.6
57.5°	2334.0	2549.4	2833.4	3022.7	3104.3
60°	2118.5	2356.8	2640.8	2846.5	2911.8
62.5°	1916.1	2157.7	2451.5	2663.7	2738.7
65°	1707.2	1952.0	2255.6	2477.6	2546.2
67.5°	1511.4	1752.9	2063.0	2281.7	2369.9
70°	1295.9	1550.5	1867.2	2092.4	2167.5
72.5°	1083.7	1348.2	1671.3	1912.9	1997.7
75°	887.9	1145.8	1482.0	1717.0	1811.7
77.5°	698.6	959.7	1299.2	1540.7	1622.4
80°	509.2	783.4	1129.4	1367.7	1446.1
82.5°	336.2	623.5	966.2	1204.5	1289.4
85°	195.9	486.4	822.6	1051.1	1142.5
87.5°	84.9	368.9	688.8	914.0	989.1
90°	3.3	274.2	581.0	799.8	878.1
92.5°	3.3	267.7	568.0	783.4	858.5
95°	3.3	261.1	564.7	773.6	848.7
97.5°	3.3	257.9	558.2	767.1	838.9
100°	3.3	248.1	548.4	754.1	825.9
102.5°	3.3	235.0	538.6	741.0	809.5
105°	3.3	225.2	528.8	727.9	793.2
107.5°	3.3	215.4	512.5	711.6	776.9
110°	3.3	205.7	486.4	695.3	760.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.3	202.4	466.8	672.4	741.0
115°	6.5	195.9	447.2	646.3	718.1
117.5°	6.5	192.6	430.9	620.2	695.3
120°	6.5	182.8	414.6	597.4	669.2
122.5°	6.5	173.0	398.2	574.5	646.3
125°	6.5	166.5	381.9	551.7	620.2
127.5°	6.5	156.7	368.9	528.8	590.8
130°	6.5	150.2	352.5	502.7	564.7
132.5°	6.5	140.4	336.2	476.6	535.3
135°	6.5	130.6	319.9	453.7	509.2
137.5°	6.5	117.5	300.3	427.6	479.9
140°	6.5	107.7	274.2	401.5	450.5
142.5°	6.5	101.2	248.1	372.1	417.8
145°	6.5	94.7	222.0	342.8	385.2
147.5°	6.5	88.1	199.1	313.4	352.5
150°	6.5	78.3	176.3	287.3	319.9
152.5°	9.8	71.8	156.7	254.6	287.3
155°	9.8	65.3	137.1	218.7	254.6
157.5°	9.8	58.8	117.5	182.8	222.0
160°	9.8	52.2	101.2	150.2	189.3
162.5°	9.8	49.0	88.1	124.0	160.0
165°	9.8	42.4	75.1	101.2	130.6
167.5°	9.8	32.6	62.0	78.3	107.7
170°	9.8	26.1	49.0	55.5	81.6
172.5°	9.8	19.6	35.9	39.2	42.4
175°	9.8	16.3	22.9	22.9	13.1
177.5°	9.8	13.1	13.1	13.1	6.5
180°	6.5	6.5	6.5	6.5	6.5

(END OF REPORT)