

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: P567692

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567692  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-200HL-LC-UNV-L840-CD  
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

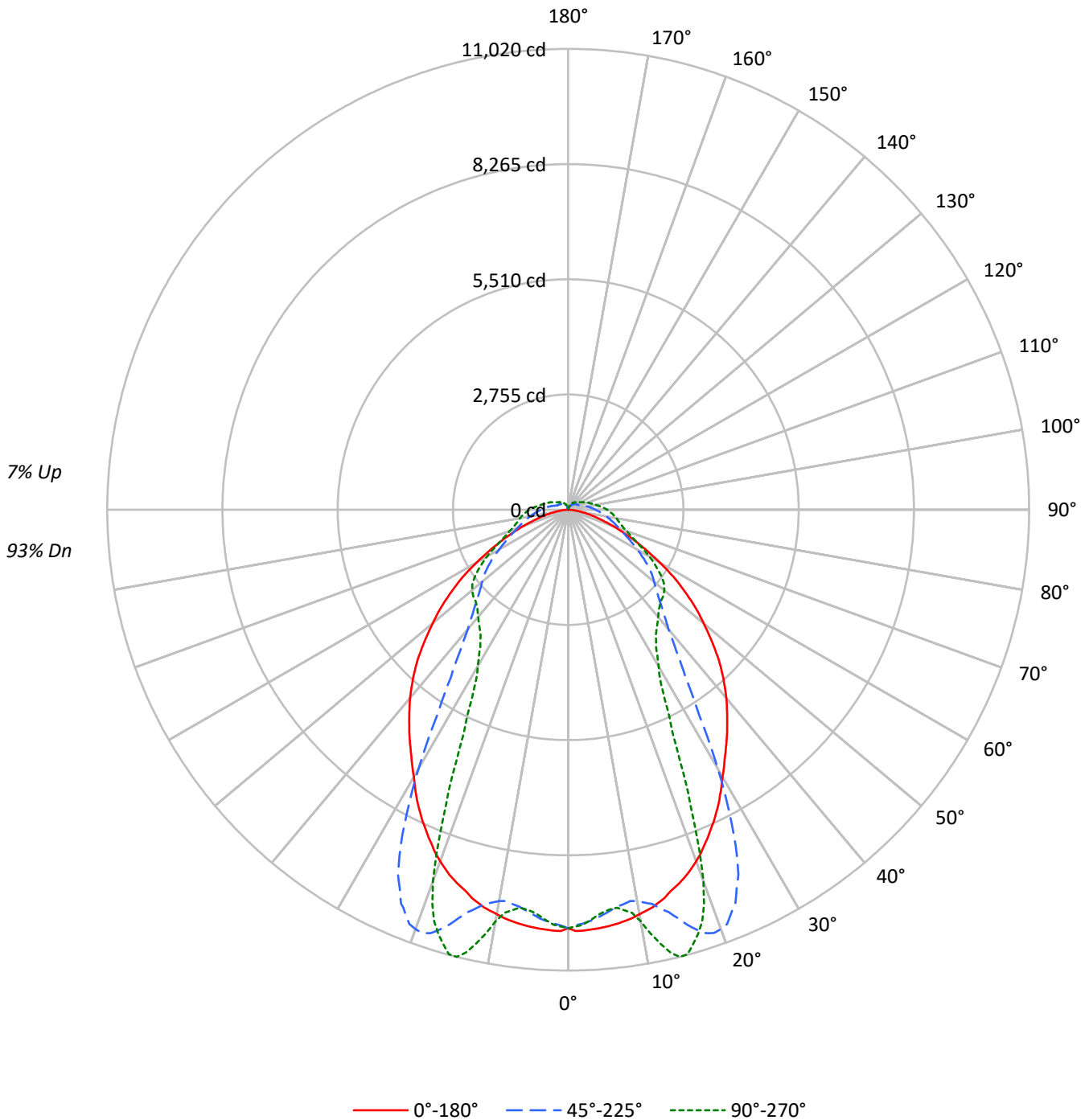
Lumens per Lamp: N/A  
Luminaire Lumens: 22243.0 lumens  
Efficiency: N/A  
Efficacy: 153.4 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Direct

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	
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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

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

	0°	45°	90°
0°	53864	53864	53864
5°	54026	50333	49304
10°	53478	47847	48892
15°	52331	49823	52048
20°	50847	51942	43561
25°	48395	46608	26784
30°	45316	34722	19384
35°	42819	23971	16353
40°	40591	18607	15071
45°	37981	15845	14253
50°	34544	14223	13991
55°	30914	12864	12945
60°	26215	11133	11197
65°	21321	9698	9345
70°	16731	8717	8228
75°	12973	8105	7673
80°	9130	7676	7595
85°	5082	7324	7542



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	931.3	4.2
10°-20°	2845.7	12.8
20°-30°	3831.8	17.2
30°-40°	3626.4	16.3
40°-50°	3200.8	14.4
50°-60°	2599.7	11.7
60°-70°	1768.1	7.9
70°-80°	1137.7	5.1
80°-90°	756.5	3.4
90°-100°	519.9	2.3
100°-110°	349.0	1.6
110°-120°	246.2	1.1
120°-130°	175.9	0.8
130°-140°	124.1	0.6
140°-150°	77.0	0.3
150°-160°	37.6	0.2
160°-170°	13.2	0.1
170°-180°	2.3	0.0
0°-30°	7608.7	34.2
0°-40°	11235.1	50.5
0°-60°	17035.7	76.6
0°-90°	20698.0	93.1
90°-120°	1115.0	5.0
90°-150°	1492.0	6.7
90°-180°	1545.0	6.9
0°-180°	22243.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10008	10008	10008	10008	10008	
5°	10018	9927	9713	9706	9658	950
15°	9444	9383	10107	11000	11010	2663
25°	8229	9757	9628	6992	5913	3776
35°	6612	9278	4890	3766	3651	4138
45°	5094	6242	3094	3056	3121	3911
55°	3393	3692	2323	2595	2693	3030
65°	1749	1990	1555	1729	1783	1756
75°	672	941	1097	1229	1287	732
85°	102	401	778	985	1053	133
90°	3	278	649	873	930	6
95°	3	214	547	740	791	3
105°	7	149	360	506	567	7
115°	7	129	265	377	424	8
125°	10	109	228	285	306	10
135°	14	85	187	238	251	11
145°	14	61	132	183	200	9
155°	17	37	82	122	139	8
165°	17	24	44	61	75	5
175°	20	20	20	20	17	2
180°	17	17	17	17	17	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10008.3	10008.3	10008.3	10008.3	10008.3
1°	10076.2	10045.6	9943.7	9998.1	9970.9
2°	10072.8	10021.8	9906.4	9967.5	9933.5
3°	10055.8	10001.5	9852.0	9889.4	9838.5
4°	10038.8	9974.3	9794.3	9794.3	9736.6
5°	10018.4	9926.7	9712.8	9706.0	9658.5
6°	9994.7	9889.4	9641.5	9634.7	9607.5
7°	9960.7	9824.9	9563.4	9610.9	9590.5
8°	9920.0	9763.7	9522.6	9641.5	9672.0
9°	9882.6	9689.0	9475.1	9736.6	9760.3
10°	9821.5	9621.1	9505.6	9926.7	9998.1
11°	9770.5	9563.4	9573.6	10113.5	10327.5
12°	9719.6	9502.2	9638.1	10347.9	10609.4
13°	9634.7	9454.7	9780.7	10602.6	10870.9
14°	9560.0	9417.3	9920.0	10860.7	11020.3
15°	9444.5	9383.4	10106.7	10999.9	11010.1
16°	9366.4	9359.6	10324.1	11010.1	10819.9
17°	9278.1	9349.4	10500.7	10833.5	10609.4
18°	9179.6	9369.8	10646.7	10612.8	10354.7
19°	9067.5	9390.2	10707.8	10307.1	9974.3
20°	8945.3	9420.7	10673.9	9987.9	9451.3
21°	8823.0	9461.5	10609.4	9651.7	8765.3
22.5°	8595.5	9560.0	10303.7	8707.6	7631.0
23°	8531.0	9580.3	10232.4	8412.1	7335.5
24°	8371.3	9665.2	9906.4	7722.7	6554.4
25°	8228.7	9756.9	9627.9	6992.5	5912.6
26°	8069.1	9824.9	9206.8	6320.1	5518.6
27°	7912.9	9865.6	8727.9	5797.1	5077.1
28°	7732.9	9909.8	8208.3	5345.4	4744.3
29°	7563.1	9916.6	7695.5	4985.4	4482.8
30°	7379.7	9882.6	7155.5	4696.8	4319.8
32.5°	6978.9	9695.8	5834.5	4146.6	3912.3
35°	6612.2	9278.1	4890.4	3766.3	3650.8
37.5°	6242.0	8619.3	4228.1	3528.5	3491.2
40°	5878.6	7838.2	3728.9	3338.3	3345.1
42.5°	5494.9	7033.3	3385.9	3182.1	3212.7
45°	5094.1	6242.0	3093.8	3056.5	3121.0
47.5°	4649.2	5518.6	2862.9	2975.0	3073.5
50°	4228.1	4802.1	2682.9	2896.9	2998.7
52.5°	3827.4	4214.5	2519.9	2764.4	2883.3
55°	3392.7	3691.5	2322.9	2594.6	2693.1
57.5°	2978.4	3219.5	2115.8	2384.0	2472.3
60°	2523.3	2754.2	1905.2	2156.5	2241.4
62.5°	2112.4	2356.9	1725.2	1929.0	1996.9
65°	1749.0	1990.1	1555.4	1728.6	1782.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1426.4	1684.5	1416.2	1562.2	1613.1
70°	1124.1	1395.8	1293.9	1426.4	1480.7
72.5°	879.6	1154.7	1192.0	1314.3	1368.6
75°	672.4	940.7	1096.9	1229.4	1287.1
77.5°	499.2	767.5	1008.6	1161.5	1222.6
80°	329.4	611.3	930.5	1100.3	1171.6
82.5°	207.2	492.4	852.4	1039.2	1113.9
85°	101.9	400.7	777.7	984.9	1052.8
87.5°	34.0	332.8	709.8	930.5	988.3
90°	3.4	278.5	648.7	872.8	930.5
92.5°	3.4	241.1	597.7	804.9	862.6
95°	3.4	214.0	546.8	740.3	791.3
97.5°	3.4	193.6	499.2	672.4	726.8
100°	3.4	173.2	448.3	607.9	665.6
102.5°	6.8	159.6	404.1	553.6	614.7
105°	6.8	149.4	360.0	506.0	567.1
107.5°	6.8	142.6	322.6	468.7	526.4
110°	6.8	135.8	295.5	434.7	495.8
112.5°	6.8	132.4	278.5	404.1	461.9
115°	6.8	129.1	264.9	377.0	424.5
117.5°	10.2	125.7	254.7	349.8	387.2
120°	10.2	118.9	247.9	326.0	356.6
122.5°	10.2	112.1	237.7	305.6	329.4
125°	10.2	108.7	227.5	285.3	305.6
127.5°	10.2	101.9	217.3	268.3	288.7
130°	13.6	95.1	207.2	254.7	271.7
132.5°	13.6	88.3	197.0	247.9	261.5
135°	13.6	84.9	186.8	237.7	251.3
137.5°	13.6	78.1	176.6	227.5	241.1
140°	13.6	71.3	163.0	214.0	227.5
142.5°	13.6	67.9	149.4	200.4	214.0
145°	13.6	61.1	132.4	183.4	200.4
147.5°	17.0	57.7	118.9	169.8	183.4
150°	17.0	50.9	105.3	156.2	169.8
152.5°	17.0	44.1	91.7	139.2	152.8
155°	17.0	37.4	81.5	122.3	139.2
157.5°	17.0	34.0	71.3	101.9	122.3
160°	17.0	30.6	61.1	88.3	105.3
162.5°	17.0	27.2	54.3	74.7	91.7
165°	17.0	23.8	44.1	61.1	74.7
167.5°	20.4	23.8	37.4	47.5	61.1
170°	20.4	23.8	30.6	37.4	47.5
172.5°	20.4	20.4	23.8	27.2	30.6
175°	20.4	20.4	20.4	20.4	17.0
177.5°	20.4	20.4	20.4	17.0	17.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	17.0	17.0	17.0	17.0	17.0

(END OF REPORT)