

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: P567707

Luminaire Tested: **8SNX-200HL-LW-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567707  
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-LW-UNV-L835-CD  
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

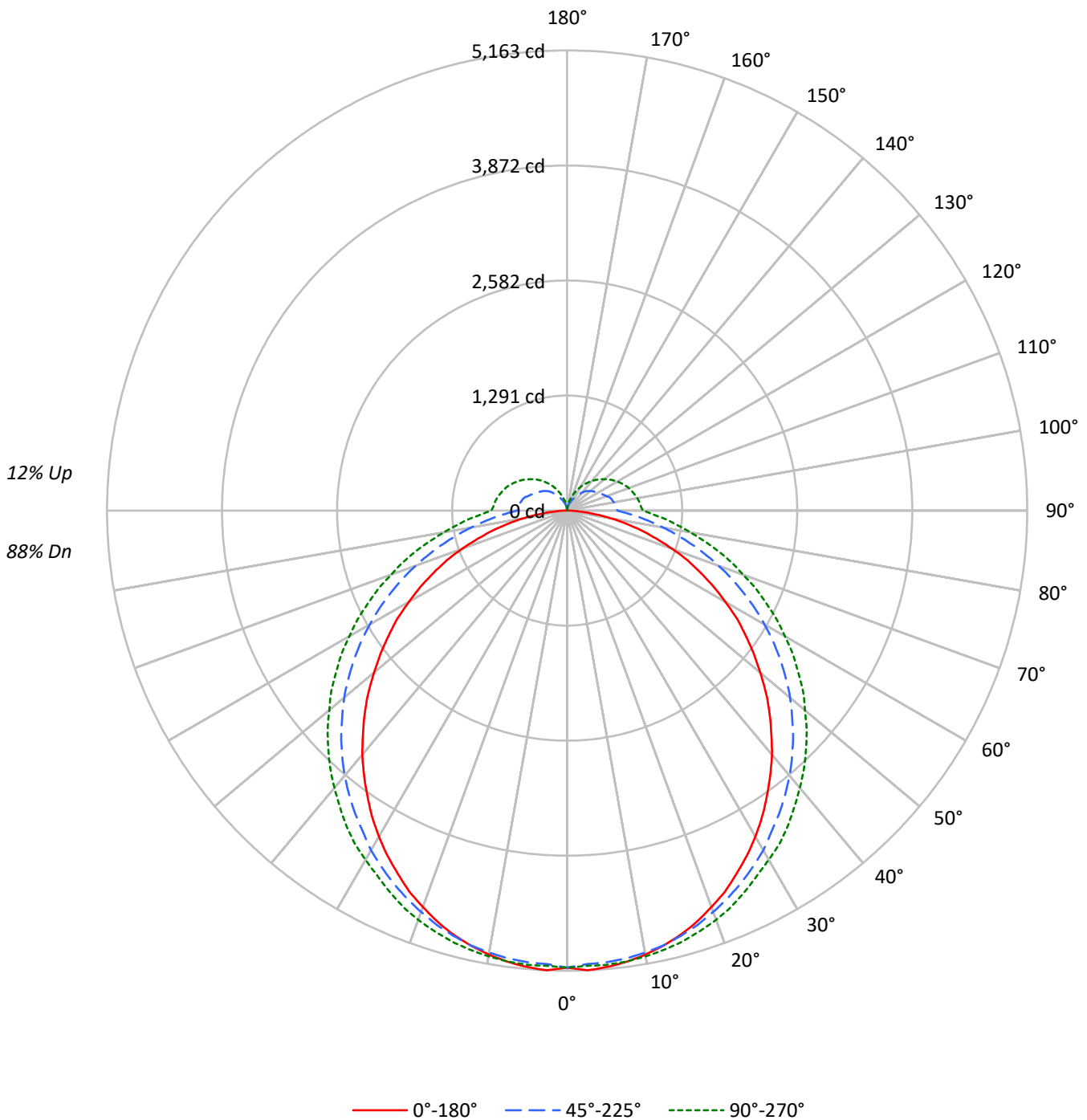
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18462.0 lumens  
Efficiency: N/A  
Efficacy: 127.3 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): 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	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°	27599	27599	27599
5°	27722	26361	26113
10°	27543	25350	24829
15°	27293	24344	23659
20°	26902	23324	22528
25°	26440	22330	21368
30°	25937	21356	20302
35°	25305	20332	19344
40°	24690	19373	18303
45°	23949	18361	17311
50°	23092	17314	16256
55°	22269	16161	15212
60°	21316	14946	14088
65°	20156	13620	12925
70°	18681	12183	11666
75°	16591	10605	10461
80°	13671	9024	9080
85°	9461	7503	7926



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.8	2.6
10°-20°	1400.4	7.6
20°-30°	2130.4	11.5
30°-40°	2590.3	14.0
40°-50°	2740.5	14.8
50°-60°	2568.9	13.9
60°-70°	2113.3	11.4
70°-80°	1462.3	7.9
80°-90°	813.1	4.4
90°-100°	535.7	2.9
100°-110°	480.4	2.6
110°-120°	397.6	2.2
120°-130°	307.4	1.7
130°-140°	217.6	1.2
140°-150°	131.2	0.7
150°-160°	63.0	0.3
160°-170°	20.6	0.1
170°-180°	2.5	0.0
0°-30°	4017.6	21.8
0°-40°	6608.0	35.8
0°-60°	11917.3	64.6
0°-90°	16306.0	88.3
90°-120°	1413.6	7.7
90°-150°	2069.8	11.2
90°-180°	2156.0	11.7
0°-180°	18462.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5128	5128	5128	5128	5128	
5°	5141	5131	5087	5128	5115	488
15°	4926	4942	4938	5005	5005	1388
25°	4496	4559	4613	4714	4717	2072
35°	3908	4012	4148	4281	4319	2446
45°	3212	3380	3585	3746	3791	2476
55°	2444	2662	2918	3102	3165	2188
65°	1654	1891	2185	2400	2466	1639
75°	860	1110	1435	1663	1755	912
85°	190	471	797	1018	1106	218
90°	3	266	563	775	850	13
95°	3	253	547	749	822	3
105°	3	218	512	705	768	3
115°	6	190	433	626	696	5
125°	6	161	370	534	601	6
135°	6	126	310	440	493	5
145°	6	92	215	332	373	4
155°	10	63	133	212	247	4
165°	10	41	73	98	126	3
175°	10	16	22	22	13	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5128.0	5128.0	5128.0	5128.0	5128.0
2.5°	5162.8	5147.0	5093.3	5128.0	5112.2
5°	5140.7	5131.2	5086.9	5128.0	5115.4
7.5°	5105.9	5102.7	5068.0	5115.4	5102.7
10°	5058.5	5064.8	5036.3	5086.9	5077.4
12.5°	4998.4	5007.9	4995.2	5052.2	5045.8
15°	4925.7	4941.5	4938.3	5004.7	5004.7
17.5°	4837.2	4859.3	4871.9	4947.8	4947.8
20°	4732.8	4767.6	4792.9	4875.1	4887.8
22.5°	4628.5	4669.6	4707.5	4792.9	4811.9
25°	4495.7	4559.0	4612.7	4713.9	4717.0
27.5°	4366.1	4435.7	4508.4	4606.4	4615.9
30°	4223.8	4312.4	4400.9	4495.7	4524.2
32.5°	4072.1	4170.1	4268.1	4394.6	4432.5
35°	3907.7	4012.0	4148.0	4280.7	4318.7
37.5°	3743.3	3860.2	4018.3	4154.3	4189.1
40°	3575.7	3705.3	3882.4	4021.5	4062.6
42.5°	3389.2	3547.3	3736.9	3885.5	3933.0
45°	3212.1	3379.7	3585.2	3746.4	3790.7
47.5°	3025.6	3202.6	3424.0	3594.7	3645.3
50°	2826.4	3028.8	3265.9	3436.6	3484.0
52.5°	2639.9	2845.4	3095.2	3272.2	3338.6
55°	2443.9	2662.0	2918.1	3101.5	3164.7
57.5°	2260.5	2469.2	2744.2	2927.6	3006.6
60°	2051.8	2282.6	2557.7	2756.9	2820.1
62.5°	1855.8	2089.8	2374.3	2579.8	2652.5
65°	1653.5	1890.6	2184.6	2399.6	2466.0
67.5°	1463.8	1697.8	1998.1	2209.9	2295.3
70°	1255.1	1501.7	1808.4	2026.6	2099.3
72.5°	1049.6	1305.7	1618.7	1852.7	1934.9
75°	859.9	1109.7	1435.3	1663.0	1754.7
77.5°	676.6	929.5	1258.3	1492.3	1571.3
80°	493.2	758.8	1093.9	1324.7	1400.6
82.5°	325.6	603.9	935.8	1166.6	1248.8
85°	189.7	471.1	796.7	1018.0	1106.5
87.5°	82.2	357.3	667.1	885.2	957.9
90°	3.2	265.6	562.8	774.6	850.5
92.5°	3.2	259.2	550.1	758.8	831.5
95°	3.2	252.9	546.9	749.3	822.0
97.5°	3.2	249.8	540.6	743.0	812.5
100°	3.2	240.3	531.1	730.3	799.9
102.5°	3.2	227.6	521.7	717.7	784.1
105°	3.2	218.1	512.2	705.0	768.3
107.5°	3.2	208.7	496.4	689.2	752.4
110°	3.2	199.2	471.1	673.4	736.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	196.0	452.1	651.3	717.7
115°	6.3	189.7	433.1	626.0	695.5
117.5°	6.3	186.5	417.3	600.7	673.4
120°	6.3	177.0	401.5	578.6	648.1
122.5°	6.3	167.6	385.7	556.4	626.0
125°	6.3	161.2	369.9	534.3	600.7
127.5°	6.3	151.8	357.3	512.2	572.2
130°	6.3	145.4	341.4	486.9	546.9
132.5°	6.3	135.9	325.6	461.6	518.5
135°	6.3	126.5	309.8	439.5	493.2
137.5°	6.3	113.8	290.9	414.2	464.7
140°	6.3	104.3	265.6	388.9	436.3
142.5°	6.3	98.0	240.3	360.4	404.7
145°	6.3	91.7	215.0	332.0	373.1
147.5°	6.3	85.4	192.9	303.5	341.4
150°	6.3	75.9	170.7	278.2	309.8
152.5°	9.5	69.6	151.8	246.6	278.2
155°	9.5	63.2	132.8	211.8	246.6
157.5°	9.5	56.9	113.8	177.0	215.0
160°	9.5	50.6	98.0	145.4	183.4
162.5°	9.5	47.4	85.4	120.1	154.9
165°	9.5	41.1	72.7	98.0	126.5
167.5°	9.5	31.6	60.1	75.9	104.3
170°	9.5	25.3	47.4	53.7	79.0
172.5°	9.5	19.0	34.8	37.9	41.1
175°	9.5	15.8	22.1	22.1	12.6
177.5°	9.5	12.6	12.6	12.6	6.3
180°	6.3	6.3	6.3	6.3	6.3

(END OF REPORT)