

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: P567706

Luminaire Tested: **8SNX-200HL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567706  
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-L830-CD  
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

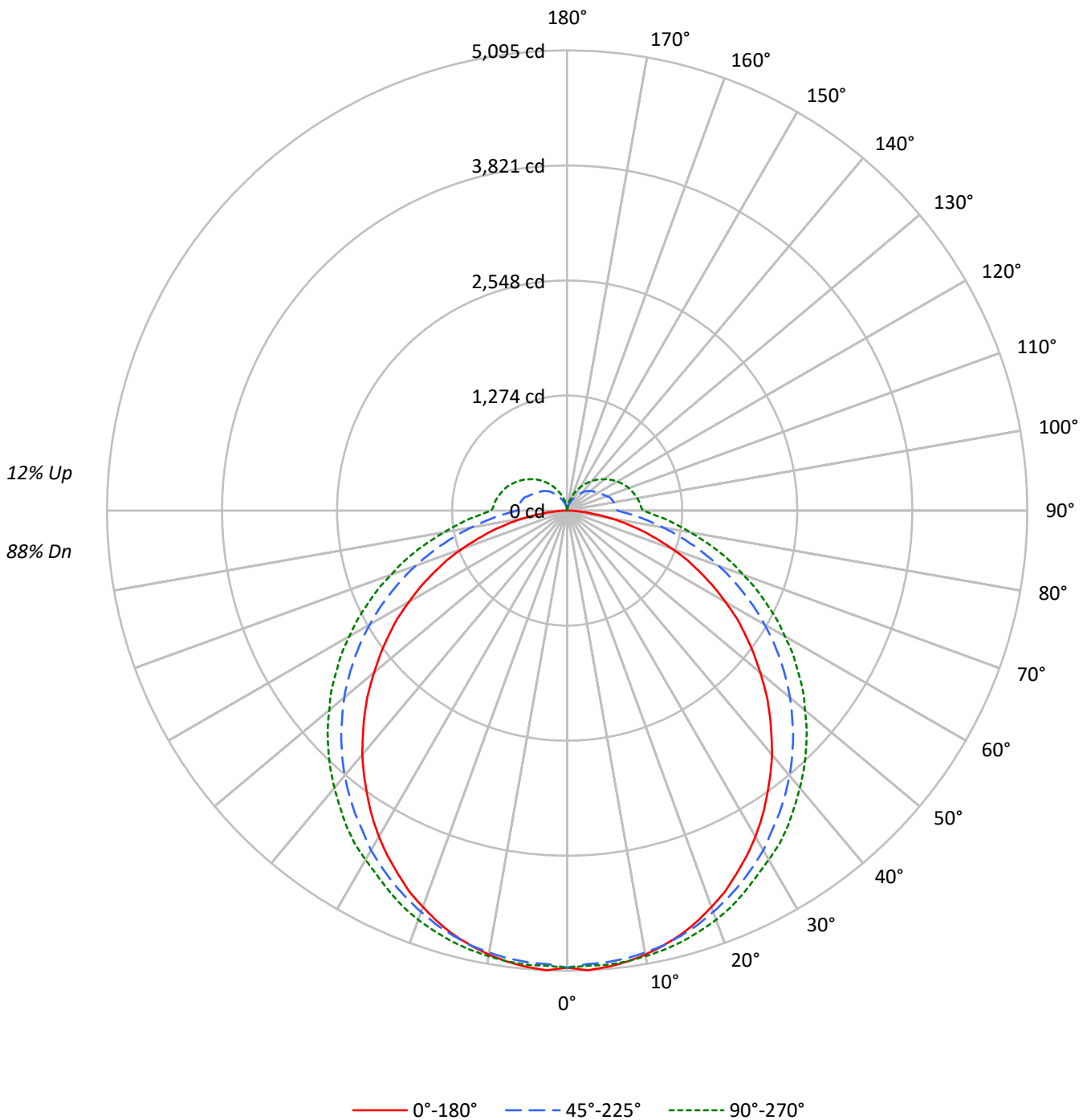
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18218.0 lumens  
Efficiency: N/A  
Efficacy: 125.6 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 (A<sub>in</sub>): 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°	27234	27234	27234
5°	27355	26013	25768
10°	27179	25016	24501
15°	26932	24023	23346
20°	26547	23016	22230
25°	26091	22034	21086
30°	25594	21073	20033
35°	24970	20063	19089
40°	24364	19117	18061
45°	23633	18119	17082
50°	22787	17085	16041
55°	21975	15947	15011
60°	21035	14748	13901
65°	19889	13441	12754
70°	18434	12022	11511
75°	16373	10465	10322
80°	13491	8904	8960
85°	9336	7404	7822



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.4	2.6
10°-20°	1381.9	7.6
20°-30°	2102.2	11.5
30°-40°	2556.1	14.0
40°-50°	2704.3	14.8
50°-60°	2534.9	13.9
60°-70°	2085.4	11.4
70°-80°	1442.9	7.9
80°-90°	802.4	4.4
90°-100°	528.6	2.9
100°-110°	474.0	2.6
110°-120°	392.3	2.2
120°-130°	303.3	1.7
130°-140°	214.7	1.2
140°-150°	129.5	0.7
150°-160°	62.2	0.3
160°-170°	20.4	0.1
170°-180°	2.5	0.0
0°-30°	3964.5	21.8
0°-40°	6520.6	35.8
0°-60°	11759.8	64.6
0°-90°	16090.5	88.3
90°-120°	1394.9	7.7
90°-150°	2042.4	11.2
90°-180°	2127.0	11.7
0°-180°	18218.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5060	5060	5060	5060	5060	
5°	5073	5063	5020	5060	5048	482
15°	4861	4876	4873	4939	4939	1370
25°	4436	4499	4552	4652	4655	2045
35°	3856	3959	4093	4224	4262	2413
45°	3170	3335	3538	3697	3741	2443
55°	2412	2627	2880	3060	3123	2159
65°	1632	1866	2156	2368	2433	1618
75°	849	1095	1416	1641	1732	900
85°	187	465	786	1005	1092	215
90°	3	262	555	764	839	12
95°	3	250	540	739	811	3
105°	3	215	505	696	758	3
115°	6	187	427	618	686	5
125°	6	159	365	527	593	6
135°	6	125	306	434	487	5
145°	6	90	212	328	368	4
155°	9	62	131	209	243	4
165°	9	41	72	97	125	3
175°	9	16	22	22	12	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5060.3	5060.3	5060.3	5060.3	5060.3
2.5°	5094.6	5079.0	5025.9	5060.3	5044.7
5°	5072.7	5063.4	5019.7	5060.3	5047.8
7.5°	5038.4	5035.3	5001.0	5047.8	5035.3
10°	4991.6	4997.9	4969.8	5019.7	5010.3
12.5°	4932.3	4941.7	4929.2	4985.4	4979.1
15°	4860.6	4876.2	4873.1	4938.6	4938.6
17.5°	4773.2	4795.1	4807.6	4882.4	4882.4
20°	4670.3	4704.6	4729.6	4810.7	4823.2
22.5°	4567.3	4607.9	4645.3	4729.6	4748.3
25°	4436.3	4498.7	4551.7	4651.6	4654.7
27.5°	4308.4	4377.0	4448.8	4545.5	4554.9
30°	4168.0	4255.4	4342.7	4436.3	4464.4
32.5°	4018.3	4115.0	4211.7	4336.5	4373.9
35°	3856.0	3959.0	4093.1	4224.2	4261.6
37.5°	3693.8	3809.2	3965.2	4099.4	4133.7
40°	3528.5	3656.4	3831.1	3968.3	4008.9
42.5°	3344.4	3500.4	3687.6	3834.2	3881.0
45°	3169.7	3335.0	3537.8	3696.9	3740.6
47.5°	2985.6	3160.3	3378.7	3547.2	3597.1
50°	2789.1	2988.7	3222.7	3391.2	3438.0
52.5°	2605.0	2807.8	3054.2	3229.0	3294.5
55°	2411.6	2626.8	2879.5	3060.5	3122.9
57.5°	2230.6	2436.5	2708.0	2888.9	2966.9
60°	2024.7	2252.5	2523.9	2720.4	2782.8
62.5°	1831.3	2062.2	2342.9	2545.7	2617.5
65°	1631.6	1865.6	2155.8	2367.9	2433.4
67.5°	1444.5	1675.3	1971.7	2180.7	2264.9
70°	1238.5	1481.9	1784.5	1999.8	2071.5
72.5°	1035.8	1288.5	1597.3	1828.2	1909.3
75°	848.6	1095.0	1416.4	1641.0	1731.5
77.5°	667.6	917.2	1241.7	1472.5	1550.5
80°	486.7	748.7	1079.4	1307.2	1382.1
82.5°	321.3	595.9	923.4	1151.2	1232.3
85°	187.2	464.8	786.2	1004.6	1091.9
87.5°	81.1	352.5	658.3	873.5	945.3
90°	3.1	262.1	555.3	764.3	839.2
92.5°	3.1	255.8	542.8	748.7	820.5
95°	3.1	249.6	539.7	739.4	811.1
97.5°	3.1	246.5	533.5	733.1	801.8
100°	3.1	237.1	524.1	720.7	789.3
102.5°	3.1	224.6	514.8	708.2	773.7
105°	3.1	215.3	505.4	695.7	758.1
107.5°	3.1	205.9	489.8	680.1	742.5
110°	3.1	196.5	464.8	664.5	726.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	193.4	446.1	642.7	708.2
115°	6.2	187.2	427.4	617.7	686.3
117.5°	6.2	184.1	411.8	592.8	664.5
120°	6.2	174.7	396.2	570.9	639.6
122.5°	6.2	165.3	380.6	549.1	617.7
125°	6.2	159.1	365.0	527.2	592.8
127.5°	6.2	149.7	352.5	505.4	564.7
130°	6.2	143.5	336.9	480.4	539.7
132.5°	6.2	134.1	321.3	455.5	511.6
135°	6.2	124.8	305.7	433.6	486.7
137.5°	6.2	112.3	287.0	408.7	458.6
140°	6.2	103.0	262.1	383.7	430.5
142.5°	6.2	96.7	237.1	355.7	399.3
145°	6.2	90.5	212.1	327.6	368.1
147.5°	6.2	84.2	190.3	299.5	336.9
150°	6.2	74.9	168.5	274.5	305.7
152.5°	9.4	68.6	149.7	243.3	274.5
155°	9.4	62.4	131.0	209.0	243.3
157.5°	9.4	56.2	112.3	174.7	212.1
160°	9.4	49.9	96.7	143.5	180.9
162.5°	9.4	46.8	84.2	118.6	152.9
165°	9.4	40.6	71.8	96.7	124.8
167.5°	9.4	31.2	59.3	74.9	103.0
170°	9.4	25.0	46.8	53.0	78.0
172.5°	9.4	18.7	34.3	37.4	40.6
175°	9.4	15.6	21.8	21.8	12.5
177.5°	9.4	12.5	12.5	12.5	6.2
180°	6.2	6.2	6.2	6.2	6.2

(END OF REPORT)