

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: P567690

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567690
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-L830-CD
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

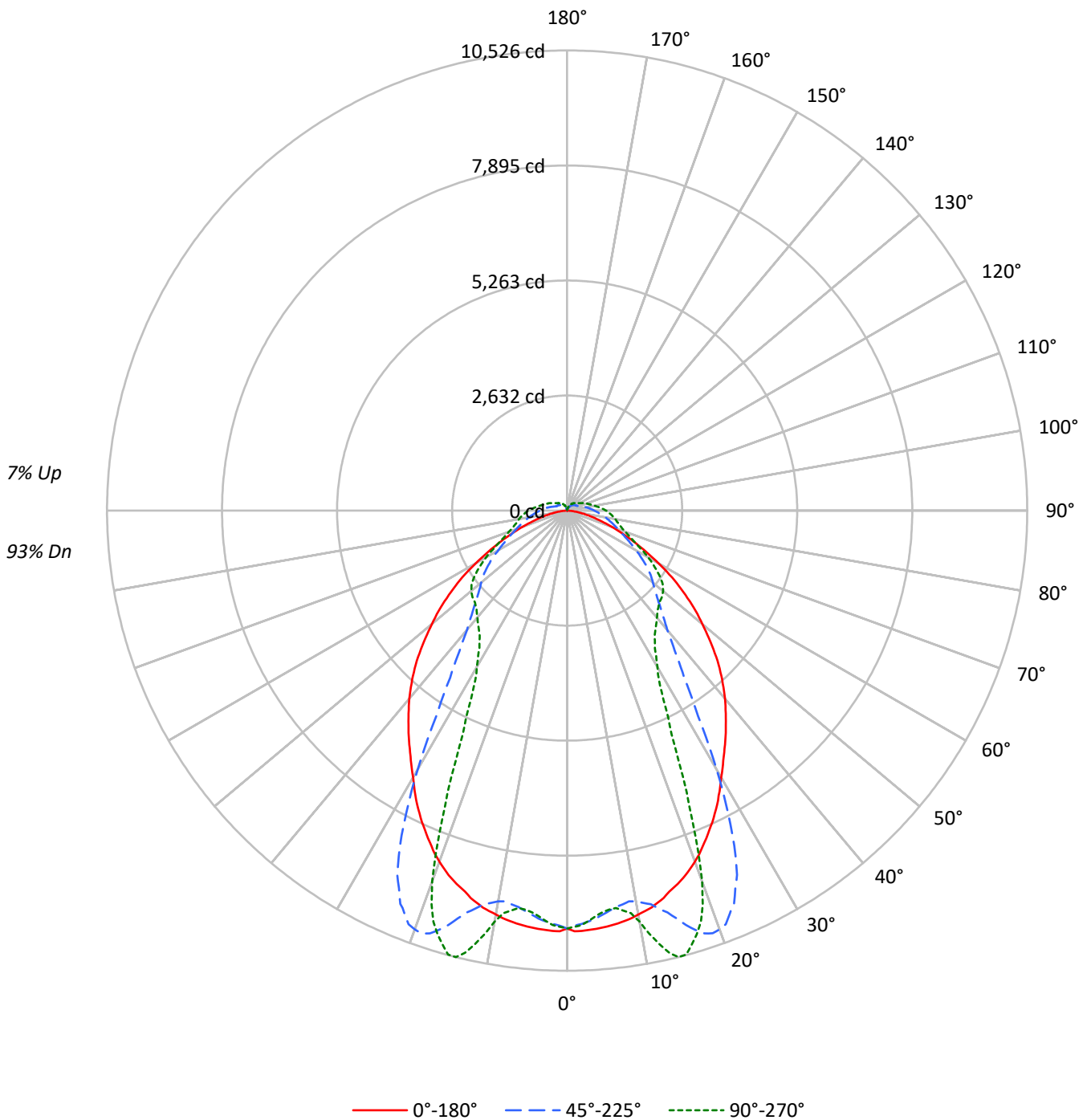
Lumens per Lamp: N/A
Luminaire Lumens: 21246.0 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

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	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°	51450	51450	51450
5°	51605	48076	47094
10°	51080	45702	46700
15°	49985	47589	49716
20°	48568	49614	41609
25°	46226	44519	25584
30°	43285	33166	18516
35°	40899	22896	15619
40°	38772	17774	14395
45°	36279	15135	13614
50°	32995	13585	13364
55°	29528	12288	12365
60°	25040	10634	10695
65°	20365	9263	8926
70°	15981	8326	7859
75°	12393	7742	7329
80°	8723	7332	7255
85°	4853	6996	7204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	889.5	4.2
10°-20°	2718.1	12.8
20°-30°	3660.0	17.2
30°-40°	3463.8	16.3
40°-50°	3057.3	14.4
50°-60°	2483.2	11.7
60°-70°	1688.9	7.9
70°-80°	1086.7	5.1
80°-90°	722.6	3.4
90°-100°	496.6	2.3
100°-110°	333.3	1.6
110°-120°	235.1	1.1
120°-130°	168.0	0.8
130°-140°	118.5	0.6
140°-150°	73.6	0.3
150°-160°	35.9	0.2
160°-170°	12.6	0.1
170°-180°	2.2	0.0
0°-30°	7267.7	34.2
0°-40°	10731.5	50.5
0°-60°	16272.1	76.6
0°-90°	19770.2	93.1
90°-120°	1065.0	5.0
90°-150°	1425.1	6.7
90°-180°	1476.0	6.9
0°-180°	21246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9560	9560	9560	9560	9560	
5°	9569	9482	9277	9271	9226	908
15°	9021	8963	9654	10507	10517	2543
25°	7860	9320	9196	6679	5648	3607
35°	6316	8862	4671	3597	3487	3952
45°	4866	5962	2955	2920	2981	3736
55°	3241	3526	2219	2478	2572	2894
65°	1671	1901	1486	1651	1703	1677
75°	642	898	1048	1174	1229	699
85°	97	383	743	941	1006	127
90°	3	266	620	834	889	6
95°	3	204	522	707	756	3
105°	6	143	344	483	542	6
115°	6	123	253	360	406	8
125°	10	104	217	272	292	9
135°	13	81	178	227	240	10
145°	13	58	126	175	191	9
155°	16	36	78	117	133	7
165°	16	23	42	58	71	5
175°	20	20	20	20	16	2
180°	16	16	16	16	16	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9559.7	9559.7	9559.7	9559.7	9559.7
1°	9624.5	9595.3	9498.0	9549.9	9524.0
2°	9621.3	9572.6	9462.3	9520.7	9488.3
3°	9605.1	9553.2	9410.4	9446.1	9397.5
4°	9588.8	9527.2	9355.3	9355.3	9300.1
5°	9569.4	9481.8	9277.4	9270.9	9225.5
6°	9546.7	9446.1	9209.3	9202.8	9176.9
7°	9514.2	9384.5	9134.7	9180.1	9160.7
8°	9475.3	9326.1	9095.8	9209.3	9238.5
9°	9439.6	9254.7	9050.4	9300.1	9322.9
10°	9381.2	9189.9	9079.6	9481.8	9549.9
11°	9332.6	9134.7	9144.4	9660.2	9864.6
12°	9283.9	9076.3	9206.1	9884.0	10133.8
13°	9202.8	9030.9	9342.3	10127.3	10383.6
14°	9131.5	8995.2	9475.3	10373.9	10526.3
15°	9021.2	8962.8	9653.7	10506.9	10516.6
16°	8946.6	8940.1	9861.3	10516.6	10334.9
17°	8862.2	8930.3	10030.0	10347.9	10133.8
18°	8768.2	8949.8	10169.5	10137.1	9890.5
19°	8661.1	8969.3	10227.9	9845.1	9527.2
20°	8544.3	8998.5	10195.4	9540.2	9027.7
21°	8427.5	9037.4	10133.8	9219.0	8372.4
22.5°	8210.2	9131.5	9841.9	8317.3	7289.0
23°	8148.6	9150.9	9773.7	8035.0	7006.7
24°	7996.1	9232.0	9462.3	7376.5	6260.6
25°	7859.9	9319.6	9196.3	6679.1	5647.6
26°	7707.4	9384.5	8794.1	6036.8	5271.3
27°	7558.2	9423.4	8336.7	5537.3	4849.6
28°	7386.3	9465.6	7840.4	5105.8	4531.7
29°	7224.1	9472.1	7350.6	4762.0	4281.9
30°	7048.9	9439.6	6834.8	4486.3	4126.2
32.5°	6666.1	9261.2	5573.0	3960.8	3736.9
35°	6315.8	8862.2	4671.2	3597.4	3487.1
37.5°	5962.2	8232.9	4038.6	3370.4	3334.7
40°	5615.1	7486.8	3561.8	3188.7	3195.2
42.5°	5248.6	6718.0	3234.1	3039.5	3068.7
45°	4865.8	5962.2	2955.2	2919.5	2981.1
47.5°	4440.8	5271.3	2734.6	2841.6	2935.7
50°	4038.6	4586.8	2562.6	2767.0	2864.3
52.5°	3655.8	4025.6	2406.9	2640.5	2754.0
55°	3240.6	3526.1	2218.8	2478.3	2572.4
57.5°	2844.9	3075.2	2020.9	2277.2	2361.5
60°	2410.2	2630.8	1819.8	2059.9	2140.9
62.5°	2017.7	2251.2	1647.9	1842.5	1907.4
65°	1670.6	1900.9	1485.7	1651.1	1703.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1362.4	1609.0	1352.7	1492.2	1540.8
70°	1073.7	1333.2	1235.9	1362.4	1414.3
72.5°	840.2	1102.9	1138.6	1255.4	1307.3
75°	642.3	898.5	1047.8	1174.3	1229.4
77.5°	476.8	733.1	963.4	1109.4	1167.8
80°	314.7	583.9	888.8	1051.0	1119.1
82.5°	197.9	470.4	814.2	992.6	1064.0
85°	97.3	382.8	742.8	940.7	1005.6
87.5°	32.4	317.9	678.0	888.8	944.0
90°	3.2	266.0	619.6	833.7	888.8
92.5°	3.2	230.3	570.9	768.8	823.9
95°	3.2	204.4	522.3	707.2	755.8
97.5°	3.2	184.9	476.8	642.3	694.2
100°	3.2	165.4	428.2	580.7	635.8
102.5°	6.5	152.5	386.0	528.7	587.1
105°	6.5	142.7	343.8	483.3	541.7
107.5°	6.5	136.2	308.2	447.7	502.8
110°	6.5	129.8	282.2	415.2	473.6
112.5°	6.5	126.5	266.0	386.0	441.2
115°	6.5	123.3	253.0	360.1	405.5
117.5°	9.7	120.0	243.3	334.1	369.8
120°	9.7	113.5	236.8	311.4	340.6
122.5°	9.7	107.0	227.1	291.9	314.7
125°	9.7	103.8	217.3	272.5	291.9
127.5°	9.7	97.3	207.6	256.3	275.7
130°	13.0	90.8	197.9	243.3	259.5
132.5°	13.0	84.3	188.1	236.8	249.8
135°	13.0	81.1	178.4	227.1	240.0
137.5°	13.0	74.6	168.7	217.3	230.3
140°	13.0	68.1	155.7	204.4	217.3
142.5°	13.0	64.9	142.7	191.4	204.4
145°	13.0	58.4	126.5	175.2	191.4
147.5°	16.2	55.1	113.5	162.2	175.2
150°	16.2	48.7	100.6	149.2	162.2
152.5°	16.2	42.2	87.6	133.0	146.0
155°	16.2	35.7	77.9	116.8	133.0
157.5°	16.2	32.4	68.1	97.3	116.8
160°	16.2	29.2	58.4	84.3	100.6
162.5°	16.2	26.0	51.9	71.4	87.6
165°	16.2	22.7	42.2	58.4	71.4
167.5°	19.5	22.7	35.7	45.4	58.4
170°	19.5	22.7	29.2	35.7	45.4
172.5°	19.5	19.5	22.7	26.0	29.2
175°	19.5	19.5	19.5	19.5	16.2
177.5°	19.5	19.5	19.5	16.2	16.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	16.2	16.2	16.2	16.2	16.2

(END OF REPORT)