

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: P567594

Luminaire Tested: **8SNX-180HL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567594
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-180HL-LC-UNV-L830-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

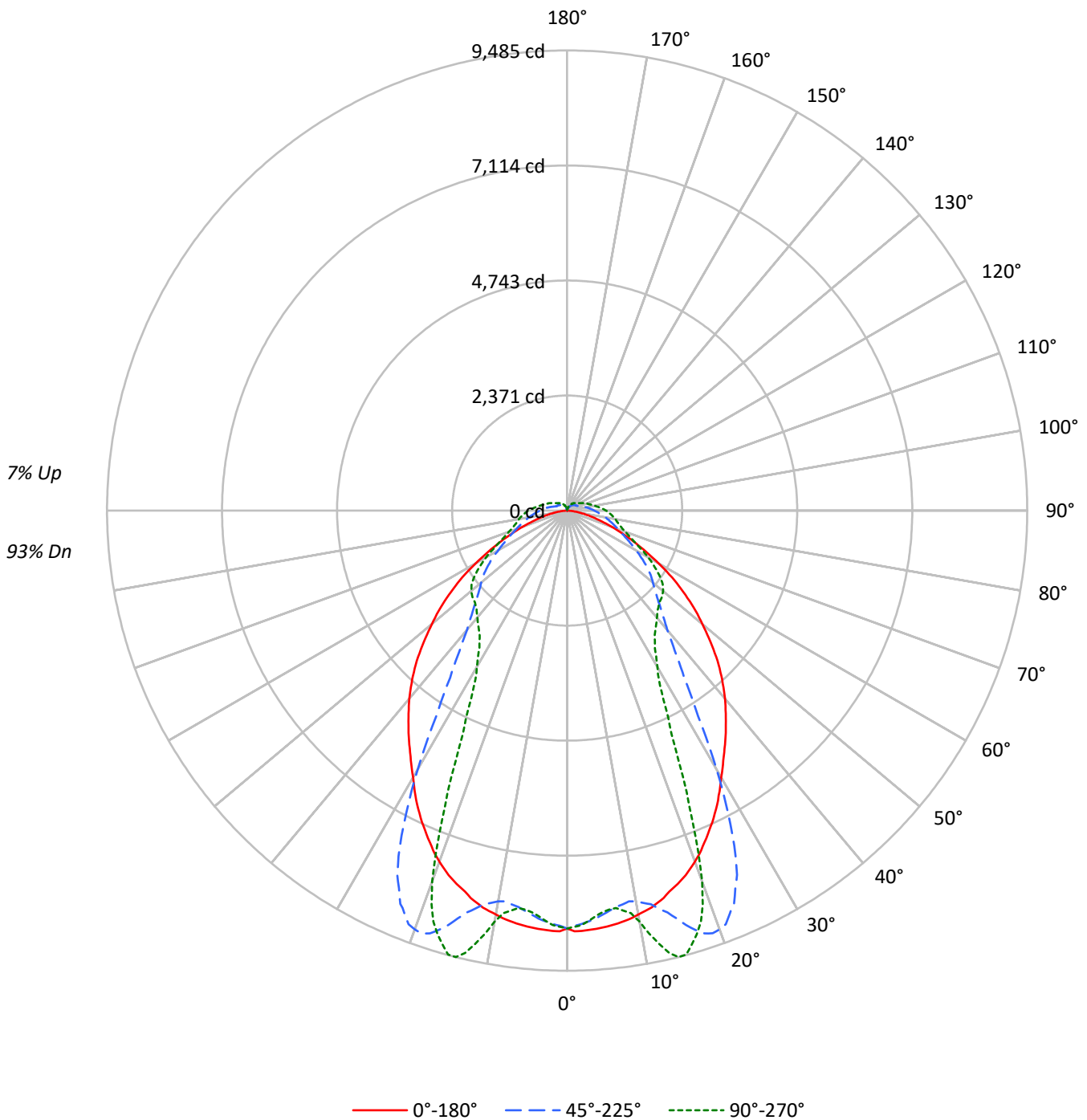
Lumens per Lamp: N/A
Luminaire Lumens: 19145.0 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 128.8
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°	46362	46362	46362
5°	46502	43322	42437
10°	46029	41183	42082
15°	45042	42884	44799
20°	43765	44708	37494
25°	41654	40116	23054
30°	39004	29886	16685
35°	36854	20632	14075
40°	34938	16016	12972
45°	32691	13638	12268
50°	29732	12242	12043
55°	26609	11073	11142
60°	22563	9582	9637
65°	18351	8347	8043
70°	14400	7503	7082
75°	11167	6976	6604
80°	7858	6607	6538
85°	4374	6304	6492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	801.6	4.2
10°-20°	2449.4	12.8
20°-30°	3298.1	17.2
30°-40°	3121.3	16.3
40°-50°	2755.0	14.4
50°-60°	2237.7	11.7
60°-70°	1521.9	7.9
70°-80°	979.2	5.1
80°-90°	651.1	3.4
90°-100°	447.5	2.3
100°-110°	300.4	1.6
110°-120°	211.9	1.1
120°-130°	151.4	0.8
130°-140°	106.8	0.6
140°-150°	66.3	0.3
150°-160°	32.3	0.2
160°-170°	11.3	0.1
170°-180°	2.0	0.0
0°-30°	6549.0	34.2
0°-40°	9670.3	50.5
0°-60°	14662.9	76.6
0°-90°	17815.2	93.1
90°-120°	959.7	5.0
90°-150°	1284.2	6.7
90°-180°	1330.0	6.9
0°-180°	19145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8614	8614	8614	8614	8614	
5°	8623	8544	8360	8354	8313	818
15°	8129	8076	8699	9468	9477	2292
25°	7083	8398	8287	6019	5089	3250
35°	5691	7986	4209	3242	3142	3561
45°	4385	5373	2663	2631	2686	3366
55°	2920	3177	1999	2233	2318	2608
65°	1505	1713	1339	1488	1535	1511
75°	579	810	944	1058	1108	630
85°	88	345	669	848	906	115
90°	3	240	558	751	801	5
95°	3	184	471	637	681	2
105°	6	129	310	436	488	6
115°	6	111	228	324	365	7
125°	9	94	196	246	263	8
135°	12	73	161	205	216	9
145°	12	53	114	158	172	8
155°	15	32	70	105	120	7
165°	15	20	38	53	64	4
175°	18	18	18	18	15	2
180°	15	15	15	15	15	



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CATALOG NUMBER: 8SNX-180HL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8614.3	8614.3	8614.3	8614.3	8614.3
1°	8672.8	8646.5	8558.8	8605.5	8582.2
2°	8669.8	8626.0	8526.6	8579.2	8550.0
3°	8655.2	8608.5	8479.8	8512.0	8468.2
4°	8640.6	8585.1	8430.2	8430.2	8380.5
5°	8623.1	8544.2	8360.0	8354.2	8313.2
6°	8602.6	8512.0	8298.6	8292.8	8269.4
7°	8573.4	8456.5	8231.4	8272.3	8254.8
8°	8538.3	8403.8	8196.3	8298.6	8324.9
9°	8506.2	8339.5	8155.4	8380.5	8400.9
10°	8453.5	8281.1	8181.7	8544.2	8605.5
11°	8409.7	8231.4	8240.2	8704.9	8889.1
12°	8365.8	8178.8	8295.7	8906.6	9131.7
13°	8292.8	8137.8	8418.5	9125.8	9356.8
14°	8228.5	8105.7	8538.3	9348.0	9485.4
15°	8129.1	8076.5	8699.1	9467.8	9476.6
16°	8061.8	8056.0	8886.2	9476.6	9312.9
17°	7985.8	8047.2	9038.2	9324.6	9131.7
18°	7901.1	8064.8	9163.8	9134.6	8912.5
19°	7804.6	8082.3	9216.5	8871.5	8585.1
20°	7699.4	8108.6	9187.2	8596.8	8134.9
21°	7594.2	8143.7	9131.7	8307.4	7544.5
22.5°	7398.3	8228.5	8868.6	7494.8	6568.2
23°	7342.8	8246.0	8807.2	7240.5	6313.8
24°	7205.4	8319.1	8526.6	6647.1	5641.5
25°	7082.6	8398.0	8286.9	6018.6	5089.1
26°	6945.2	8456.5	7924.5	5439.8	4750.0
27°	6810.8	8491.5	7512.3	4989.7	4370.0
28°	6655.8	8529.5	7065.1	4600.9	4083.5
29°	6509.7	8535.4	6623.7	4291.1	3858.5
30°	6351.8	8506.2	6158.9	4042.6	3718.2
32.5°	6006.9	8345.4	5021.8	3569.1	3367.4
35°	5691.2	7985.8	4209.2	3241.7	3142.3
37.5°	5372.6	7418.8	3639.2	3037.1	3004.9
40°	5059.8	6746.5	3209.5	2873.4	2879.2
42.5°	4729.5	6053.7	2914.3	2738.9	2765.2
45°	4384.6	5372.6	2662.9	2630.8	2686.3
47.5°	4001.7	4750.0	2464.2	2560.6	2645.4
50°	3639.2	4133.2	2309.2	2493.4	2581.1
52.5°	3294.3	3627.5	2168.9	2379.4	2481.7
55°	2920.2	3177.4	1999.4	2233.2	2318.0
57.5°	2563.5	2771.1	1821.1	2052.0	2128.0
60°	2171.8	2370.6	1639.8	1856.2	1929.2
62.5°	1818.2	2028.6	1484.9	1660.3	1718.8
65°	1505.4	1712.9	1338.8	1487.8	1534.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1227.7	1449.8	1218.9	1344.6	1388.5
70°	967.5	1201.4	1113.7	1227.7	1274.5
72.5°	757.1	993.8	1026.0	1131.2	1178.0
75°	578.8	809.7	944.2	1058.2	1107.8
77.5°	429.7	660.6	868.2	999.7	1052.3
80°	283.5	526.2	800.9	947.1	1008.5
82.5°	178.3	423.8	733.7	894.5	958.8
85°	87.7	344.9	669.4	847.7	906.2
87.5°	29.2	286.5	610.9	800.9	850.6
90°	2.9	239.7	558.3	751.2	800.9
92.5°	2.9	207.5	514.5	692.8	742.5
95°	2.9	184.2	470.6	637.2	681.1
97.5°	2.9	166.6	429.7	578.8	625.5
100°	2.9	149.1	385.8	523.2	572.9
102.5°	5.8	137.4	347.8	476.5	529.1
105°	5.8	128.6	309.8	435.5	488.2
107.5°	5.8	122.8	277.7	403.4	453.1
110°	5.8	116.9	254.3	374.2	426.8
112.5°	5.8	114.0	239.7	347.8	397.5
115°	5.8	111.1	228.0	324.5	365.4
117.5°	8.8	108.2	219.2	301.1	333.2
120°	8.8	102.3	213.4	280.6	306.9
122.5°	8.8	96.5	204.6	263.1	283.5
125°	8.8	93.5	195.8	245.5	263.1
127.5°	8.8	87.7	187.1	230.9	248.5
130°	11.7	81.8	178.3	219.2	233.8
132.5°	11.7	76.0	169.5	213.4	225.1
135°	11.7	73.1	160.8	204.6	216.3
137.5°	11.7	67.2	152.0	195.8	207.5
140°	11.7	61.4	140.3	184.2	195.8
142.5°	11.7	58.5	128.6	172.5	184.2
145°	11.7	52.6	114.0	157.8	172.5
147.5°	14.6	49.7	102.3	146.2	157.8
150°	14.6	43.8	90.6	134.5	146.2
152.5°	14.6	38.0	78.9	119.8	131.5
155°	14.6	32.2	70.2	105.2	119.8
157.5°	14.6	29.2	61.4	87.7	105.2
160°	14.6	26.3	52.6	76.0	90.6
162.5°	14.6	23.4	46.8	64.3	78.9
165°	14.6	20.5	38.0	52.6	64.3
167.5°	17.5	20.5	32.2	40.9	52.6
170°	17.5	20.5	26.3	32.2	40.9
172.5°	17.5	17.5	20.5	23.4	26.3
175°	17.5	17.5	17.5	17.5	14.6
177.5°	17.5	17.5	17.5	14.6	14.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	14.6	14.6	14.6	14.6	14.6

(END OF REPORT)