

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: P567402

Luminaire Tested: **8SNX-148HL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

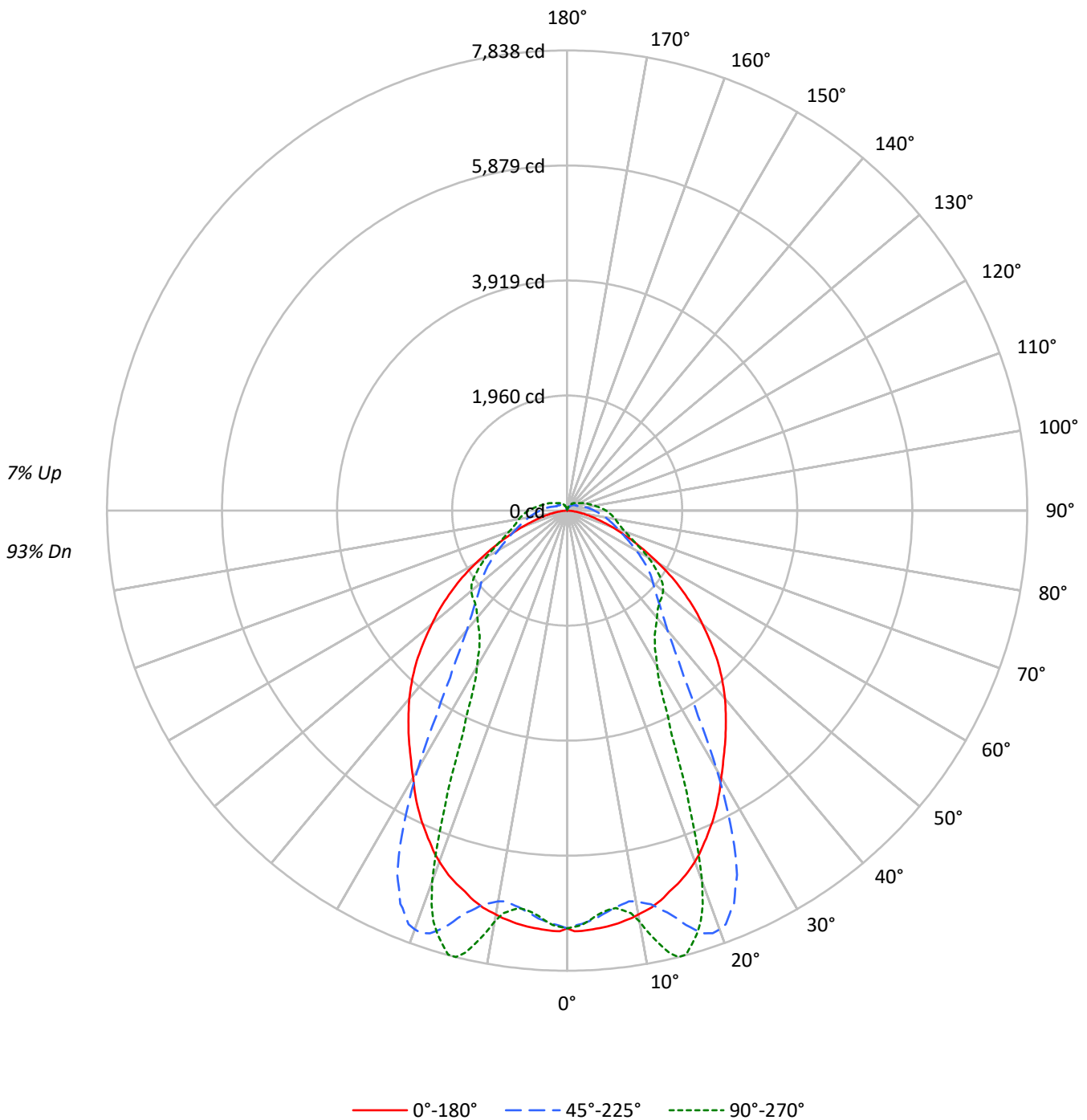
Test Method: LM-79-08  
Report Number: P567402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-148HL-LC-UNV-L830-CD  
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15819.0 lumens  
Efficiency: N/A  
Efficacy: 152.7 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): 103.6  
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°	38308	38308	38308
5°	38423	35796	35065
10°	38033	34028	34771
15°	37217	35433	37016
20°	36162	36941	30980
25°	34418	33147	19049
30°	32229	24695	13786
35°	30452	17048	11630
40°	28868	13234	10718
45°	27012	11269	10136
50°	24567	10116	9951
55°	21986	9149	9206
60°	18643	7918	7963
65°	15163	6897	6646
70°	11900	6200	5852
75°	9226	5764	5457
80°	6494	5459	5402
85°	3616	5209	5363



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	662.3	4.2
10°-20°	2023.8	12.8
20°-30°	2725.1	17.2
30°-40°	2579.0	16.3
40°-50°	2276.4	14.4
50°-60°	1848.9	11.7
60°-70°	1257.5	7.9
70°-80°	809.1	5.1
80°-90°	538.0	3.4
90°-100°	369.8	2.3
100°-110°	248.2	1.6
110°-120°	175.1	1.1
120°-130°	125.1	0.8
130°-140°	88.2	0.6
140°-150°	54.8	0.3
150°-160°	26.7	0.2
160°-170°	9.4	0.1
170°-180°	1.6	0.0
0°-30°	5411.3	34.2
0°-40°	7990.3	50.5
0°-60°	12115.6	76.6
0°-90°	14720.2	93.1
90°-120°	793.0	5.0
90°-150°	1061.1	6.7
90°-180°	1099.0	6.9
0°-180°	15819.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7118	7118	7118	7118	7118	
5°	7125	7060	6908	6903	6869	676
15°	6717	6673	7188	7823	7830	1894
25°	5852	6939	6847	4973	4205	2686
35°	4702	6598	3478	2678	2596	2943
45°	3623	4439	2200	2174	2220	2782
55°	2413	2625	1652	1845	1915	2155
65°	1244	1415	1106	1229	1268	1249
75°	478	669	780	874	915	520
85°	72	285	553	700	749	95
90°	2	198	461	621	662	4
95°	2	152	389	526	563	2
105°	5	106	256	360	403	5
115°	5	92	188	268	302	6
125°	7	77	162	203	217	7
135°	10	60	133	169	179	8
145°	10	44	94	130	142	7
155°	12	27	58	87	99	6
165°	12	17	31	44	53	4
175°	14	14	14	14	12	1
180°	12	12	12	12	12	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7117.8	7117.8	7117.8	7117.8	7117.8
1°	7166.1	7144.3	7071.9	7110.5	7091.2
2°	7163.7	7127.4	7045.3	7088.8	7064.6
3°	7151.6	7112.9	7006.7	7033.2	6997.0
4°	7139.5	7093.6	6965.6	6965.6	6924.5
5°	7125.0	7059.8	6907.6	6902.8	6869.0
6°	7108.1	7033.2	6856.9	6852.1	6832.8
7°	7084.0	6987.3	6801.4	6835.2	6820.7
8°	7055.0	6943.9	6772.4	6856.9	6878.7
9°	7028.4	6890.7	6738.6	6924.5	6941.5
10°	6984.9	6842.4	6760.3	7059.8	7110.5
11°	6948.7	6801.4	6808.6	7192.6	7344.8
12°	6912.5	6757.9	6854.5	7359.3	7545.3
13°	6852.1	6724.1	6955.9	7540.4	7731.2
14°	6799.0	6697.5	7055.0	7724.0	7837.5
15°	6716.8	6673.4	7187.8	7823.0	7830.3
16°	6661.3	6656.5	7342.4	7830.3	7695.0
17°	6598.5	6649.2	7468.0	7704.7	7545.3
18°	6528.4	6663.7	7571.8	7547.7	7364.1
19°	6448.7	6678.2	7615.3	7330.3	7093.6
20°	6361.8	6699.9	7591.2	7103.3	6721.7
21°	6274.8	6728.9	7545.3	6864.2	6233.8
22.5°	6113.0	6799.0	7327.9	6192.7	5427.1
23°	6067.1	6813.4	7277.2	5982.6	5217.0
24°	5953.6	6873.8	7045.3	5492.3	4661.5
25°	5852.2	6939.0	6847.3	4973.0	4205.0
26°	5738.7	6987.3	6547.8	4494.8	3924.8
27°	5627.6	7016.3	6207.2	4122.8	3610.8
28°	5499.5	7047.7	5837.7	3801.6	3374.1
29°	5378.8	7052.6	5473.0	3545.6	3188.1
30°	5248.4	7028.4	5089.0	3340.3	3072.2
32.5°	4963.4	6895.6	4149.4	2949.0	2782.4
35°	4702.5	6598.5	3478.0	2678.5	2596.4
37.5°	4439.2	6129.9	3007.0	2509.5	2482.9
40°	4180.8	5574.4	2652.0	2374.2	2379.0
42.5°	3907.9	5002.0	2408.0	2263.1	2284.8
45°	3622.9	4439.2	2200.3	2173.7	2219.6
47.5°	3306.5	3924.8	2036.1	2115.8	2185.8
50°	3007.0	3415.2	1908.1	2060.2	2132.7
52.5°	2722.0	2997.3	1792.1	1966.0	2050.6
55°	2412.8	2625.4	1652.0	1845.3	1915.3
57.5°	2118.2	2289.7	1504.7	1695.5	1758.3
60°	1794.5	1958.8	1355.0	1533.7	1594.1
62.5°	1502.3	1676.2	1227.0	1371.9	1420.2
65°	1243.9	1415.3	1106.2	1229.4	1268.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1014.4	1198.0	1007.2	1111.0	1147.2
70°	799.5	992.7	920.2	1014.4	1053.1
72.5°	625.6	821.2	847.8	934.7	973.3
75°	478.2	669.0	780.1	874.3	915.4
77.5°	355.0	545.8	717.3	826.0	869.5
80°	234.3	434.7	661.8	782.5	833.3
82.5°	147.3	350.2	606.2	739.1	792.2
85°	72.5	285.0	553.1	700.4	748.7
87.5°	24.2	236.7	504.8	661.8	702.8
90°	2.4	198.1	461.3	620.7	661.8
92.5°	2.4	171.5	425.1	572.4	613.5
95°	2.4	152.2	388.9	526.5	562.8
97.5°	2.4	137.7	355.0	478.2	516.9
100°	2.4	123.2	318.8	432.3	473.4
102.5°	4.8	113.5	287.4	393.7	437.2
105°	4.8	106.3	256.0	359.9	403.3
107.5°	4.8	101.4	229.4	333.3	374.4
110°	4.8	96.6	210.1	309.2	352.6
112.5°	4.8	94.2	198.1	287.4	328.5
115°	4.8	91.8	188.4	268.1	301.9
117.5°	7.2	89.4	181.1	248.8	275.3
120°	7.2	84.5	176.3	231.9	253.6
122.5°	7.2	79.7	169.1	217.4	234.3
125°	7.2	77.3	161.8	202.9	217.4
127.5°	7.2	72.5	154.6	190.8	205.3
130°	9.7	67.6	147.3	181.1	193.2
132.5°	9.7	62.8	140.1	176.3	186.0
135°	9.7	60.4	132.8	169.1	178.7
137.5°	9.7	55.6	125.6	161.8	171.5
140°	9.7	50.7	115.9	152.2	161.8
142.5°	9.7	48.3	106.3	142.5	152.2
145°	9.7	43.5	94.2	130.4	142.5
147.5°	12.1	41.1	84.5	120.8	130.4
150°	12.1	36.2	74.9	111.1	120.8
152.5°	12.1	31.4	65.2	99.0	108.7
155°	12.1	26.6	58.0	86.9	99.0
157.5°	12.1	24.2	50.7	72.5	86.9
160°	12.1	21.7	43.5	62.8	74.9
162.5°	12.1	19.3	38.6	53.1	65.2
165°	12.1	16.9	31.4	43.5	53.1
167.5°	14.5	16.9	26.6	33.8	43.5
170°	14.5	16.9	21.7	26.6	33.8
172.5°	14.5	14.5	16.9	19.3	21.7
175°	14.5	14.5	14.5	14.5	12.1
177.5°	14.5	14.5	14.5	12.1	12.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	12.1	12.1	12.1	12.1	12.1

(END OF REPORT)