

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: P565950

Luminaire Tested: **4SNX-100HL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565950  
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: 4SNX-100HL-LC-UNV-L830-CD  
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

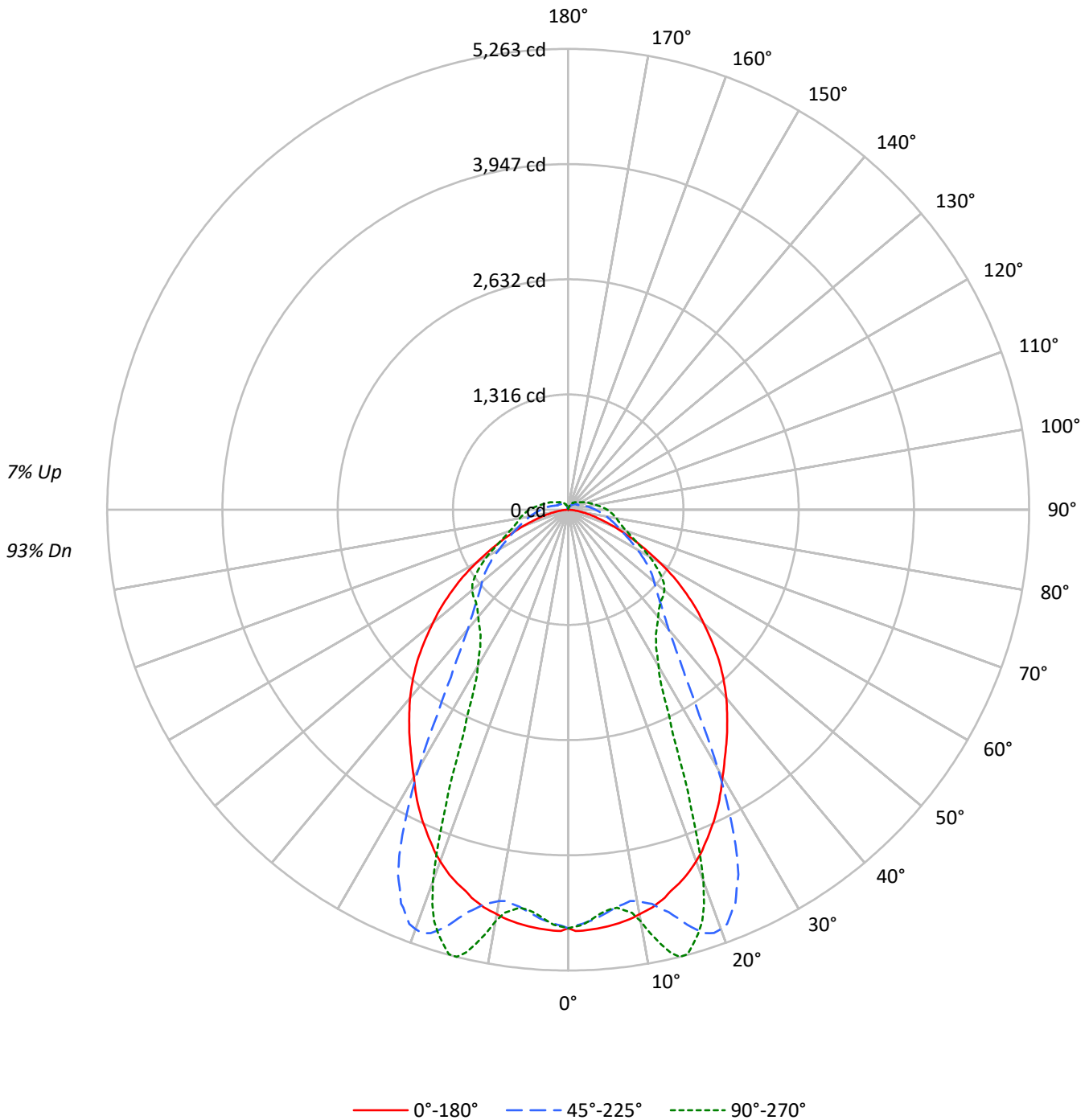
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10623.0 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: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 72.5  
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°	51449	51449	51449
5°	51511	48017	47095
10°	50894	45593	46701
15°	49709	47424	49716
20°	48206	49389	41608
25°	45785	44271	25584
30°	42777	32947	18516
35°	40319	22722	15620
40°	38118	17619	14395
45°	35553	14986	13614
50°	32215	13436	13365
55°	28699	12137	12365
60°	24197	10489	10695
65°	19530	9121	8926
70°	15161	8185	7860
75°	11557	7594	7329
80°	7887	7173	7255
85°	4074	6821	7204



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.8	4.2
10°-20°	1359.1	12.8
20°-30°	1830.0	17.2
30°-40°	1731.9	16.3
40°-50°	1528.7	14.4
50°-60°	1241.6	11.7
60°-70°	844.4	7.9
70°-80°	543.3	5.1
80°-90°	361.3	3.4
90°-100°	248.3	2.3
100°-110°	166.7	1.6
110°-120°	117.6	1.1
120°-130°	84.0	0.8
130°-140°	59.3	0.6
140°-150°	36.8	0.3
150°-160°	17.9	0.2
160°-170°	6.3	0.1
170°-180°	1.1	0.0
0°-30°	3633.8	34.2
0°-40°	5365.8	50.5
0°-60°	8136.1	76.6
0°-90°	9885.1	93.1
90°-120°	532.5	5.0
90°-150°	712.6	6.7
90°-180°	738.0	6.9
0°-180°	10623.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4780	4780	4780	4780	4780	
5°	4785	4741	4639	4636	4613	454
15°	4511	4481	4827	5253	5258	1272
25°	3930	4660	4598	3340	2824	1803
35°	3158	4431	2336	1799	1744	1976
45°	2433	2981	1478	1460	1491	1868
55°	1620	1763	1109	1239	1286	1447
65°	835	950	743	826	852	839
75°	321	449	524	587	615	349
85°	49	191	371	470	503	64
90°	2	133	310	417	444	3
95°	2	102	261	354	378	1
105°	3	71	172	242	271	3
115°	3	62	126	180	203	4
125°	5	52	109	136	146	5
135°	6	40	89	114	120	5
145°	6	29	63	88	96	4
155°	8	18	39	58	66	4
165°	8	11	21	29	36	2
175°	10	10	10	10	8	1
180°	8	8	8	8	8	



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CATALOG NUMBER: 4SNX-100HL-LC-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4779.8	4779.8	4779.8	4779.8	4779.8
1°	4812.3	4797.7	4749.0	4775.0	4762.0
2°	4810.6	4786.3	4731.2	4760.4	4744.1
3°	4802.5	4776.6	4705.2	4723.1	4698.7
4°	4794.4	4763.6	4677.6	4677.6	4650.1
5°	4784.7	4740.9	4638.7	4635.5	4612.8
6°	4773.3	4723.1	4604.7	4601.4	4588.4
7°	4757.1	4692.2	4567.4	4590.1	4580.3
8°	4737.7	4663.0	4547.9	4604.7	4619.3
9°	4719.8	4627.4	4525.2	4650.1	4661.4
10°	4690.6	4594.9	4539.8	4740.9	4775.0
11°	4666.3	4567.4	4572.2	4830.1	4932.3
12°	4642.0	4538.2	4603.0	4942.0	5066.9
13°	4601.4	4515.5	4671.2	5063.7	5191.8
14°	4565.7	4497.6	4737.7	5186.9	5263.2
15°	4510.6	4481.4	4826.9	5253.4	5258.3
16°	4473.3	4470.0	4930.7	5258.3	5167.5
17°	4431.1	4465.2	5015.0	5174.0	5066.9
18°	4384.1	4474.9	5084.7	5068.5	4945.3
19°	4330.6	4484.6	5113.9	4922.6	4763.6
20°	4272.2	4499.2	5097.7	4770.1	4513.8
21°	4213.8	4518.7	5066.9	4609.5	4186.2
22.5°	4105.1	4565.7	4920.9	4158.6	3644.5
23°	4074.3	4575.5	4886.9	4017.5	3503.4
24°	3998.1	4616.0	4731.2	3688.3	3130.3
25°	3929.9	4659.8	4598.2	3339.6	2823.8
26°	3853.7	4692.2	4397.1	3018.4	2635.6
27°	3779.1	4711.7	4168.4	2768.6	2424.8
28°	3693.1	4732.8	3920.2	2552.9	2265.8
29°	3612.0	4736.0	3675.3	2381.0	2140.9
30°	3524.5	4719.8	3417.4	2243.1	2063.1
32.5°	3333.1	4630.6	2786.5	1980.4	1868.5
35°	3157.9	4431.1	2335.6	1798.7	1743.6
37.5°	2981.1	4116.5	2019.3	1685.2	1667.3
40°	2807.6	3743.4	1780.9	1594.4	1597.6
42.5°	2624.3	3359.0	1617.1	1519.7	1534.3
45°	2432.9	2981.1	1477.6	1459.7	1490.6
47.5°	2220.4	2635.6	1367.3	1420.8	1467.8
50°	2019.3	2293.4	1281.3	1383.5	1432.2
52.5°	1827.9	2012.8	1203.5	1320.3	1377.0
55°	1620.3	1763.0	1109.4	1239.2	1286.2
57.5°	1422.4	1537.6	1010.5	1138.6	1180.8
60°	1205.1	1315.4	909.9	1029.9	1070.5
62.5°	1008.8	1125.6	823.9	921.3	953.7
65°	835.3	950.5	742.8	825.6	851.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	681.2	804.5	676.3	746.1	770.4
70°	536.9	666.6	618.0	681.2	707.2
72.5°	420.1	551.5	569.3	627.7	653.6
75°	321.1	449.3	523.9	587.1	614.7
77.5°	238.4	366.6	481.7	554.7	583.9
80°	157.3	291.9	444.4	525.5	559.6
82.5°	98.9	235.2	407.1	496.3	532.0
85°	48.7	191.4	371.4	470.4	502.8
87.5°	16.2	158.9	339.0	444.4	472.0
90°	1.6	133.0	309.8	416.8	444.4
92.5°	1.6	115.2	285.5	384.4	412.0
95°	1.6	102.2	261.1	353.6	377.9
97.5°	1.6	92.4	238.4	321.1	347.1
100°	1.6	82.7	214.1	290.3	317.9
102.5°	3.2	76.2	193.0	264.4	293.6
105°	3.2	71.4	171.9	241.7	270.9
107.5°	3.2	68.1	154.1	223.8	251.4
110°	3.2	64.9	141.1	207.6	236.8
112.5°	3.2	63.3	133.0	193.0	220.6
115°	3.2	61.6	126.5	180.0	202.7
117.5°	4.9	60.0	121.6	167.1	184.9
120°	4.9	56.8	118.4	155.7	170.3
122.5°	4.9	53.5	113.5	146.0	157.3
125°	4.9	51.9	108.7	136.2	146.0
127.5°	4.9	48.7	103.8	128.1	137.9
130°	6.5	45.4	98.9	121.6	129.8
132.5°	6.5	42.2	94.1	118.4	124.9
135°	6.5	40.5	89.2	113.5	120.0
137.5°	6.5	37.3	84.3	108.7	115.2
140°	6.5	34.1	77.9	102.2	108.7
142.5°	6.5	32.4	71.4	95.7	102.2
145°	6.5	29.2	63.3	87.6	95.7
147.5°	8.1	27.6	56.8	81.1	87.6
150°	8.1	24.3	50.3	74.6	81.1
152.5°	8.1	21.1	43.8	66.5	73.0
155°	8.1	17.8	38.9	58.4	66.5
157.5°	8.1	16.2	34.1	48.7	58.4
160°	8.1	14.6	29.2	42.2	50.3
162.5°	8.1	13.0	26.0	35.7	43.8
165°	8.1	11.4	21.1	29.2	35.7
167.5°	9.7	11.4	17.8	22.7	29.2
170°	9.7	11.4	14.6	17.8	22.7
172.5°	9.7	9.7	11.4	13.0	14.6
175°	9.7	9.7	9.7	9.7	8.1
177.5°	9.7	9.7	9.7	8.1	8.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	8.1	8.1	8.1	8.1	8.1

(END OF REPORT)