

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: P566862

Luminaire Tested: **4SNX-84HL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566862  
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-84HL-LC-UNV-L830-CD  
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

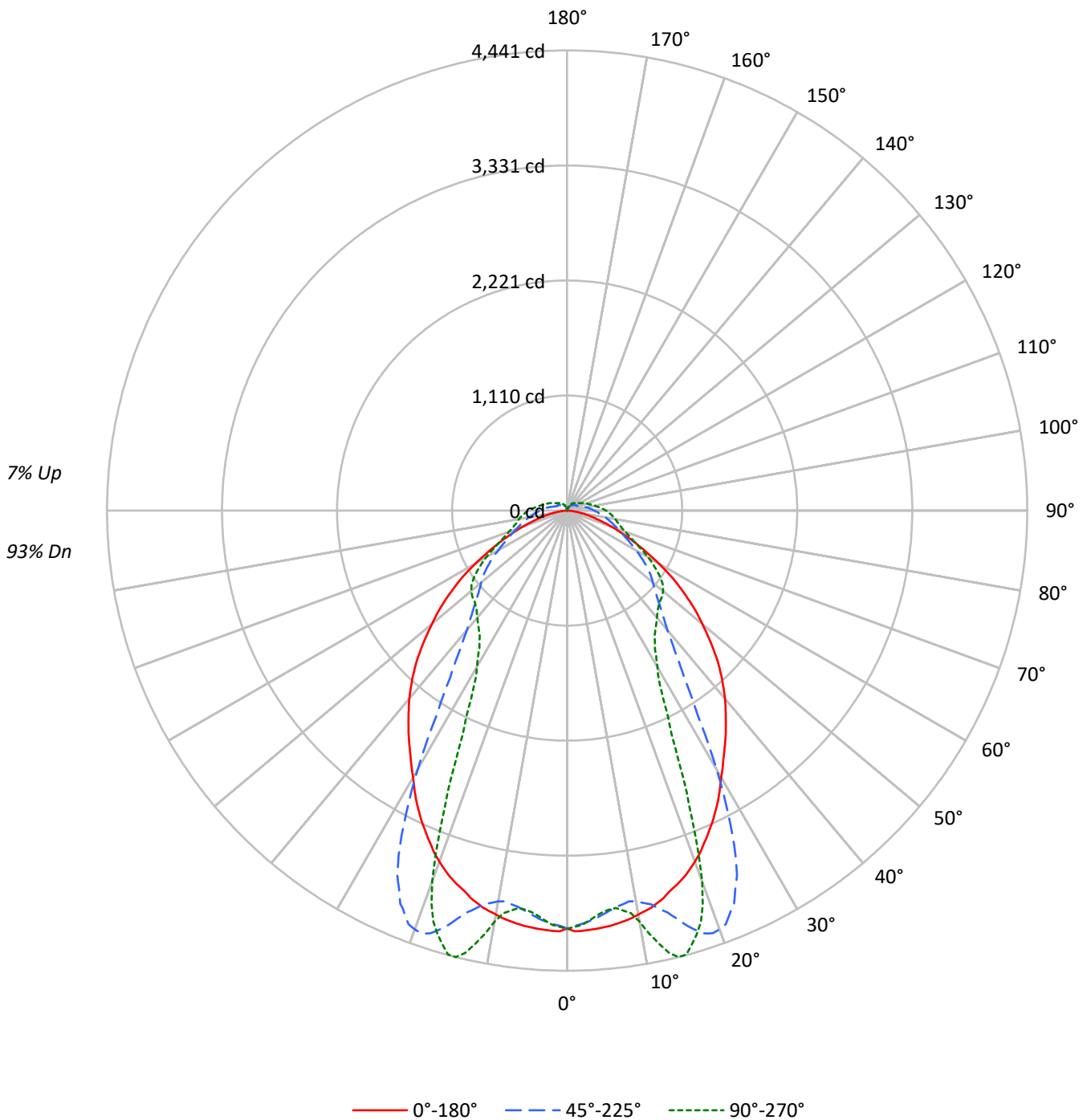
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8964.0 lumens  
Efficiency: N/A  
Efficacy: 154.8 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): 57.9  
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

TEST NUMBER: P566862  
CATALOG NUMBER: 4SNX-84HL-LC-UNV-L830-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P566862

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	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°	43415	43415	43415
5°	43467	40519	39740
10°	42946	38473	39408
15°	41947	40017	41951
20°	40677	41676	35110
25°	38635	37357	21588
30°	36096	27802	15624
35°	34022	19173	13180
40°	32164	14868	12147
45°	30000	12646	11488
50°	27183	11338	11277
55°	24218	10241	10433
60°	20418	8851	9025
65°	16479	7697	7532
70°	12792	6906	6632
75°	9754	6408	6184
80°	6658	6052	6122
85°	3438	5755	6079



TEST NUMBER: P566862

CATALOG NUMBER: 4SNX-84HL-LC-UNV-L830-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.3	4.2
10°-20°	1146.8	12.8
20°-30°	1544.2	17.2
30°-40°	1461.4	16.3
40°-50°	1289.9	14.4
50°-60°	1047.7	11.7
60°-70°	712.6	7.9
70°-80°	458.5	5.1
80°-90°	304.9	3.4
90°-100°	209.5	2.3
100°-110°	140.6	1.6
110°-120°	99.2	1.1
120°-130°	70.9	0.8
130°-140°	50.0	0.6
140°-150°	31.0	0.3
150°-160°	15.1	0.2
160°-170°	5.3	0.1
170°-180°	0.9	0.0
0°-30°	3066.4	34.2
0°-40°	4527.8	50.5
0°-60°	6865.4	76.6
0°-90°	8341.3	93.1
90°-120°	449.4	5.0
90°-150°	601.3	6.7
90°-180°	623.0	7.0
0°-180°	8964.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4033	4033	4033	4033	4033	
5°	4038	4000	3914	3912	3892	383
15°	3806	3782	4073	4433	4437	1073
25°	3316	3932	3880	2818	2383	1522
35°	2665	3739	1971	1518	1471	1667
45°	2053	2516	1247	1232	1258	1576
55°	1367	1488	936	1046	1085	1221
65°	705	802	627	697	718	708
75°	271	379	442	495	519	295
85°	41	162	313	397	424	54
90°	1	112	261	352	375	2
95°	1	86	220	298	319	1
105°	3	60	145	204	229	3
115°	3	52	107	152	171	3
125°	4	44	92	115	123	4
135°	6	34	75	96	101	4
145°	6	25	53	74	81	4
155°	7	15	33	49	56	3
165°	7	10	18	25	30	2
175°	8	8	8	8	7	1
180°	7	7	7	7	7	



TEST NUMBER: P566862

CATALOG NUMBER: 4SNX-84HL-LC-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4033.4	4033.4	4033.4	4033.4	4033.4
1°	4060.7	4048.4	4007.4	4029.3	4018.3
2°	4059.4	4038.8	3992.3	4016.9	4003.2
3°	4052.5	4030.6	3970.4	3985.5	3964.9
4°	4045.7	4019.7	3947.1	3947.1	3923.9
5°	4037.5	4000.5	3914.3	3911.6	3892.4
6°	4027.9	3985.5	3885.5	3882.8	3871.9
7°	4014.2	3959.5	3854.1	3873.2	3865.0
8°	3997.8	3934.8	3837.6	3885.5	3897.9
9°	3982.7	3904.7	3818.5	3923.9	3933.4
10°	3958.1	3877.3	3830.8	4000.5	4029.3
11°	3937.6	3854.1	3858.2	4075.8	4162.0
12°	3917.0	3829.4	3884.2	4170.2	4275.6
13°	3882.8	3810.3	3941.7	4272.9	4381.0
14°	3852.7	3795.2	3997.8	4376.9	4441.2
15°	3806.2	3781.5	4073.0	4433.0	4437.1
16°	3774.7	3771.9	4160.6	4437.1	4360.5
17°	3739.1	3767.8	4231.8	4365.9	4275.6
18°	3699.4	3776.1	4290.7	4277.0	4173.0
19°	3654.2	3784.3	4315.3	4153.8	4019.7
20°	3605.0	3796.6	4301.6	4025.1	3808.9
21°	3555.7	3813.0	4275.6	3889.7	3532.4
22.5°	3464.0	3852.7	4152.4	3509.2	3075.3
23°	3438.0	3860.9	4123.7	3390.1	2956.2
24°	3373.7	3895.1	3992.3	3112.3	2641.5
25°	3316.2	3932.1	3880.1	2818.0	2382.8
26°	3251.9	3959.5	3710.4	2547.0	2224.0
27°	3188.9	3975.9	3517.4	2336.3	2046.1
28°	3116.4	3993.7	3308.0	2154.2	1912.0
29°	3047.9	3996.4	3101.3	2009.2	1806.6
30°	2974.0	3982.7	2883.7	1892.8	1740.9
32.5°	2812.5	3907.4	2351.3	1671.1	1576.7
35°	2664.7	3739.1	1970.8	1517.8	1471.3
37.5°	2515.5	3473.6	1703.9	1422.0	1407.0
40°	2369.1	3158.8	1502.8	1345.4	1348.1
42.5°	2214.4	2834.4	1364.5	1282.4	1294.7
45°	2052.9	2515.5	1246.8	1231.8	1257.8
47.5°	1873.7	2224.0	1153.8	1198.9	1238.6
50°	1703.9	1935.2	1081.2	1167.4	1208.5
52.5°	1542.4	1698.5	1015.5	1114.1	1162.0
55°	1367.3	1487.7	936.1	1045.6	1085.3
57.5°	1200.3	1297.5	852.7	960.8	996.4
60°	1016.9	1110.0	767.8	869.1	903.3
62.5°	851.3	949.8	695.3	777.4	804.8
65°	704.8	802.0	626.8	696.6	718.5



TEST NUMBER: P566862

CATALOG NUMBER: 4SNX-84HL-LC-UNV-L830-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	574.8	678.8	570.7	629.6	650.1
70°	453.0	562.5	521.4	574.8	596.7
72.5°	354.5	465.3	480.4	529.7	551.6
75°	271.0	379.1	442.1	495.4	518.7
77.5°	201.2	309.3	406.5	468.1	492.7
80°	132.8	246.4	375.0	443.4	472.2
82.5°	83.5	198.5	343.5	418.8	448.9
85°	41.1	161.5	313.4	396.9	424.3
87.5°	13.7	134.1	286.0	375.0	398.3
90°	1.4	112.2	261.4	351.7	375.0
92.5°	1.4	97.2	240.9	324.4	347.6
95°	1.4	86.2	220.3	298.4	318.9
97.5°	1.4	78.0	201.2	271.0	292.9
100°	1.4	69.8	180.7	245.0	268.3
102.5°	2.7	64.3	162.9	223.1	247.7
105°	2.7	60.2	145.1	203.9	228.6
107.5°	2.7	57.5	130.0	188.9	212.1
110°	2.7	54.7	119.1	175.2	199.8
112.5°	2.7	53.4	112.2	162.9	186.1
115°	2.7	52.0	106.8	151.9	171.1
117.5°	4.1	50.6	102.6	141.0	156.0
120°	4.1	47.9	99.9	131.4	143.7
122.5°	4.1	45.2	95.8	123.2	132.8
125°	4.1	43.8	91.7	115.0	123.2
127.5°	4.1	41.1	87.6	108.1	116.3
130°	5.5	38.3	83.5	102.6	109.5
132.5°	5.5	35.6	79.4	99.9	105.4
135°	5.5	34.2	75.3	95.8	101.3
137.5°	5.5	31.5	71.2	91.7	97.2
140°	5.5	28.7	65.7	86.2	91.7
142.5°	5.5	27.4	60.2	80.7	86.2
145°	5.5	24.6	53.4	73.9	80.7
147.5°	6.8	23.3	47.9	68.4	73.9
150°	6.8	20.5	42.4	63.0	68.4
152.5°	6.8	17.8	37.0	56.1	61.6
155°	6.8	15.1	32.8	49.3	56.1
157.5°	6.8	13.7	28.7	41.1	49.3
160°	6.8	12.3	24.6	35.6	42.4
162.5°	6.8	10.9	21.9	30.1	37.0
165°	6.8	9.6	17.8	24.6	30.1
167.5°	8.2	9.6	15.1	19.2	24.6
170°	8.2	9.6	12.3	15.1	19.2
172.5°	8.2	8.2	9.6	10.9	12.3
175°	8.2	8.2	8.2	8.2	6.8
177.5°	8.2	8.2	8.2	6.8	6.8



TEST NUMBER: P566862

CATALOG NUMBER: 4SNX-84HL-LC-UNV-L830-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	6.8	6.8	6.8	6.8	6.8

(END OF REPORT)