

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: P566910

Luminaire Tested: **4SNX-87HL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566910
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-87HL-LC-UNV-L830-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

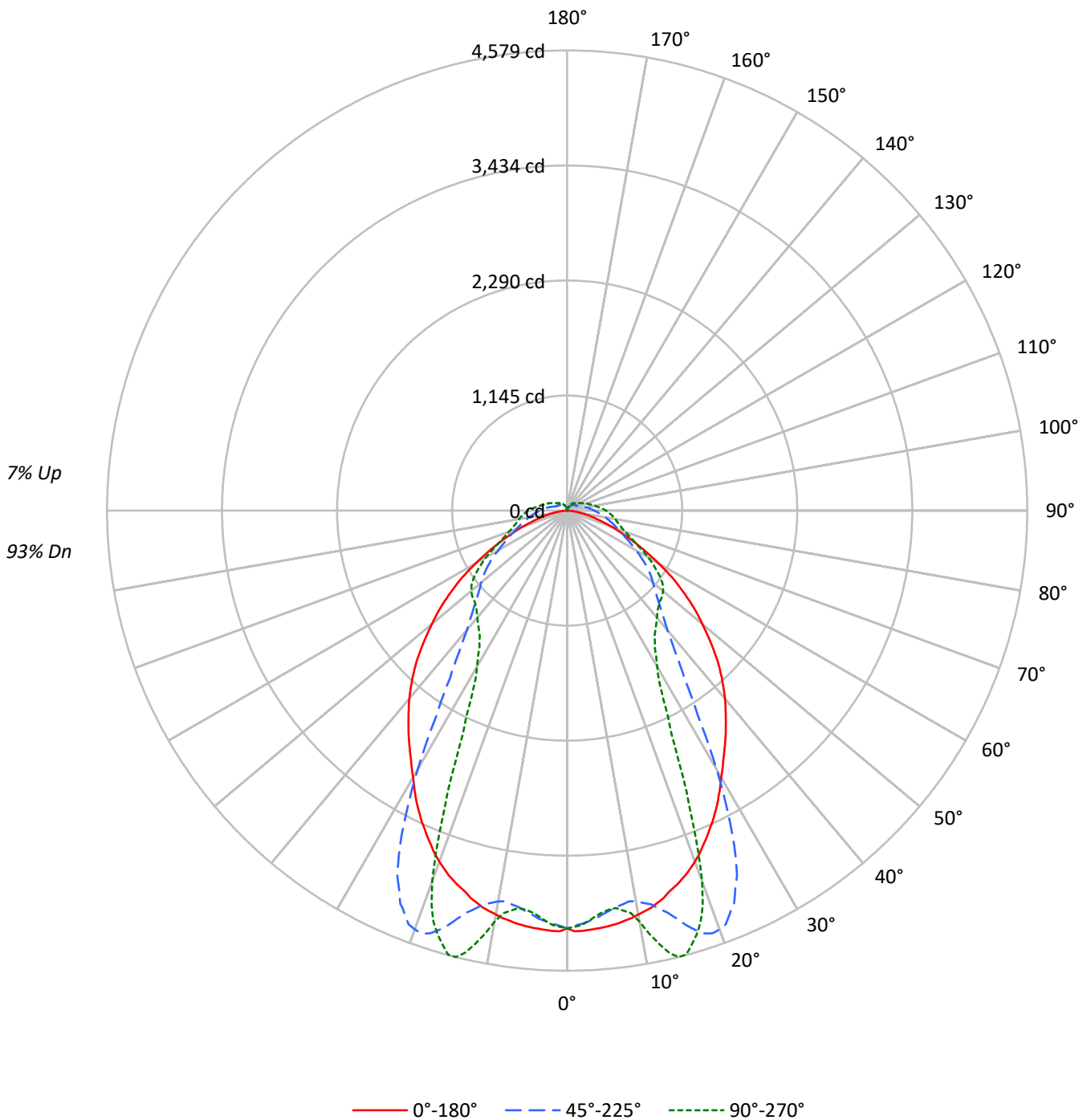
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9242.0 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: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 62.2
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°	44761	44761	44761
5°	44815	41775	40972
10°	44278	39666	40629
15°	43247	41259	43252
20°	41939	42968	36199
25°	39832	38516	22258
30°	37216	28664	16109
35°	35078	19768	13589
40°	33162	15329	12524
45°	30931	13038	11844
50°	28027	11690	11627
55°	24969	10560	10757
60°	21051	9125	9305
65°	16991	7936	7766
70°	13190	7120	6837
75°	10056	6607	6376
80°	6864	6240	6312
85°	3539	5934	6267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.9	4.2
10°-20°	1182.4	12.8
20°-30°	1592.1	17.2
30°-40°	1506.8	16.3
40°-50°	1329.9	14.4
50°-60°	1080.2	11.7
60°-70°	734.7	7.9
70°-80°	472.7	5.1
80°-90°	314.3	3.4
90°-100°	216.0	2.3
100°-110°	145.0	1.6
110°-120°	102.3	1.1
120°-130°	73.1	0.8
130°-140°	51.5	0.6
140°-150°	32.0	0.3
150°-160°	15.6	0.2
160°-170°	5.5	0.1
170°-180°	0.9	0.0
0°-30°	3161.4	34.2
0°-40°	4668.2	50.5
0°-60°	7078.4	76.6
0°-90°	8600.1	93.1
90°-120°	463.3	5.0
90°-150°	619.9	6.7
90°-180°	642.0	6.9
0°-180°	9242.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4158	4158	4158	4158	4158	
5°	4163	4125	4036	4033	4013	395
15°	3924	3899	4199	4570	4575	1106
25°	3419	4054	4000	2905	2457	1569
35°	2747	3855	2032	1565	1517	1719
45°	2117	2594	1286	1270	1297	1625
55°	1410	1534	965	1078	1119	1259
65°	727	827	646	718	741	730
75°	279	391	456	511	535	304
85°	42	166	323	409	437	55
90°	1	116	270	363	387	3
95°	1	89	227	308	329	1
105°	3	62	150	210	236	3
115°	3	54	110	157	176	3
125°	4	45	94	118	127	4
135°	6	35	78	99	104	4
145°	6	25	55	76	83	4
155°	7	16	34	51	58	3
165°	7	10	18	25	31	2
175°	8	8	8	8	7	1
180°	7	7	7	7	7	



TEST NUMBER: P566910

CATALOG NUMBER: 4SNX-87HL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4158.4	4158.4	4158.4	4158.4	4158.4
1°	4186.7	4174.0	4131.6	4154.2	4142.9
2°	4185.3	4164.1	4116.1	4141.5	4127.4
3°	4178.2	4155.6	4093.5	4109.1	4087.9
4°	4171.1	4144.3	4069.5	4069.5	4045.6
5°	4162.7	4124.6	4035.7	4032.9	4013.1
6°	4152.8	4109.1	4006.0	4003.2	3991.9
7°	4138.7	4082.2	3973.6	3993.3	3984.9
8°	4121.8	4056.8	3956.7	4006.0	4018.7
9°	4106.2	4025.8	3936.9	4045.6	4055.4
10°	4080.8	3997.6	3949.6	4124.6	4154.2
11°	4059.7	3973.6	3977.8	4202.2	4291.1
12°	4038.5	3948.2	4004.6	4299.6	4408.2
13°	4003.2	3928.4	4063.9	4405.4	4516.9
14°	3972.2	3912.9	4121.8	4512.6	4578.9
15°	3924.2	3898.8	4199.4	4570.5	4574.7
16°	3891.8	3888.9	4289.7	4574.7	4495.7
17°	3855.1	3884.7	4363.1	4501.3	4408.2
18°	3814.1	3893.2	4423.7	4409.6	4302.4
19°	3767.6	3901.6	4449.1	4282.6	4144.3
20°	3716.8	3914.3	4435.0	4150.0	3927.0
21°	3666.0	3931.3	4408.2	4010.3	3642.0
22.5°	3571.4	3972.2	4281.2	3618.0	3170.7
23°	3544.6	3980.6	4251.6	3495.2	3047.9
24°	3478.3	4015.9	4116.1	3208.8	2723.4
25°	3419.0	4054.0	4000.4	2905.4	2456.7
26°	3352.7	4082.2	3825.4	2626.0	2293.0
27°	3287.8	4099.2	3626.5	2408.7	2109.6
28°	3213.0	4117.5	3410.6	2221.0	1971.3
29°	3142.5	4120.3	3197.5	2071.5	1862.6
30°	3066.3	4106.2	2973.1	1951.5	1794.9
32.5°	2899.8	4028.6	2424.2	1722.9	1625.6
35°	2747.4	3855.1	2032.0	1564.9	1516.9
37.5°	2593.6	3581.3	1756.8	1466.1	1450.6
40°	2442.6	3256.8	1549.4	1387.1	1389.9
42.5°	2283.1	2922.3	1406.8	1322.2	1334.9
45°	2116.6	2593.6	1285.5	1270.0	1296.8
47.5°	1931.8	2293.0	1189.5	1236.1	1277.0
50°	1756.8	1995.3	1114.8	1203.6	1246.0
52.5°	1590.3	1751.1	1047.0	1148.6	1198.0
55°	1409.7	1533.8	965.2	1078.1	1119.0
57.5°	1237.5	1337.7	879.1	990.6	1027.3
60°	1048.4	1144.4	791.6	896.0	931.3
62.5°	877.7	979.3	716.8	801.5	829.7
65°	726.7	826.9	646.3	718.2	740.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	592.7	699.9	588.4	649.1	670.3
70°	467.1	580.0	537.6	592.7	615.2
72.5°	365.5	479.8	495.3	546.1	568.7
75°	279.4	390.9	455.8	510.8	534.8
77.5°	207.4	318.9	419.1	482.6	508.0
80°	136.9	254.0	386.6	457.2	486.8
82.5°	86.1	204.6	354.2	431.8	462.8
85°	42.3	166.5	323.1	409.2	437.4
87.5°	14.1	138.3	294.9	386.6	410.6
90°	1.4	115.7	269.5	362.6	386.6
92.5°	1.4	100.2	248.3	334.4	358.4
95°	1.4	88.9	227.2	307.6	328.8
97.5°	1.4	80.4	207.4	279.4	302.0
100°	1.4	72.0	186.3	252.6	276.6
102.5°	2.8	66.3	167.9	230.0	255.4
105°	2.8	62.1	149.6	210.3	235.6
107.5°	2.8	59.3	134.1	194.7	218.7
110°	2.8	56.4	122.8	180.6	206.0
112.5°	2.8	55.0	115.7	167.9	191.9
115°	2.8	53.6	110.1	156.6	176.4
117.5°	4.2	52.2	105.8	145.3	160.9
120°	4.2	49.4	103.0	135.5	148.2
122.5°	4.2	46.6	98.8	127.0	136.9
125°	4.2	45.2	94.5	118.5	127.0
127.5°	4.2	42.3	90.3	111.5	119.9
130°	5.6	39.5	86.1	105.8	112.9
132.5°	5.6	36.7	81.8	103.0	108.7
135°	5.6	35.3	77.6	98.8	104.4
137.5°	5.6	32.5	73.4	94.5	100.2
140°	5.6	29.6	67.7	88.9	94.5
142.5°	5.6	28.2	62.1	83.3	88.9
145°	5.6	25.4	55.0	76.2	83.3
147.5°	7.1	24.0	49.4	70.6	76.2
150°	7.1	21.2	43.7	64.9	70.6
152.5°	7.1	18.3	38.1	57.9	63.5
155°	7.1	15.5	33.9	50.8	57.9
157.5°	7.1	14.1	29.6	42.3	50.8
160°	7.1	12.7	25.4	36.7	43.7
162.5°	7.1	11.3	22.6	31.0	38.1
165°	7.1	9.9	18.3	25.4	31.0
167.5°	8.5	9.9	15.5	19.8	25.4
170°	8.5	9.9	12.7	15.5	19.8
172.5°	8.5	8.5	9.9	11.3	12.7
175°	8.5	8.5	8.5	8.5	7.1
177.5°	8.5	8.5	8.5	7.1	7.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	7.1	7.1	7.1	7.1	7.1

(END OF REPORT)