

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: P566963

Luminaire Tested: **4SNX-90HL-LC-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566963
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-90HL-LC-UNV-L935-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

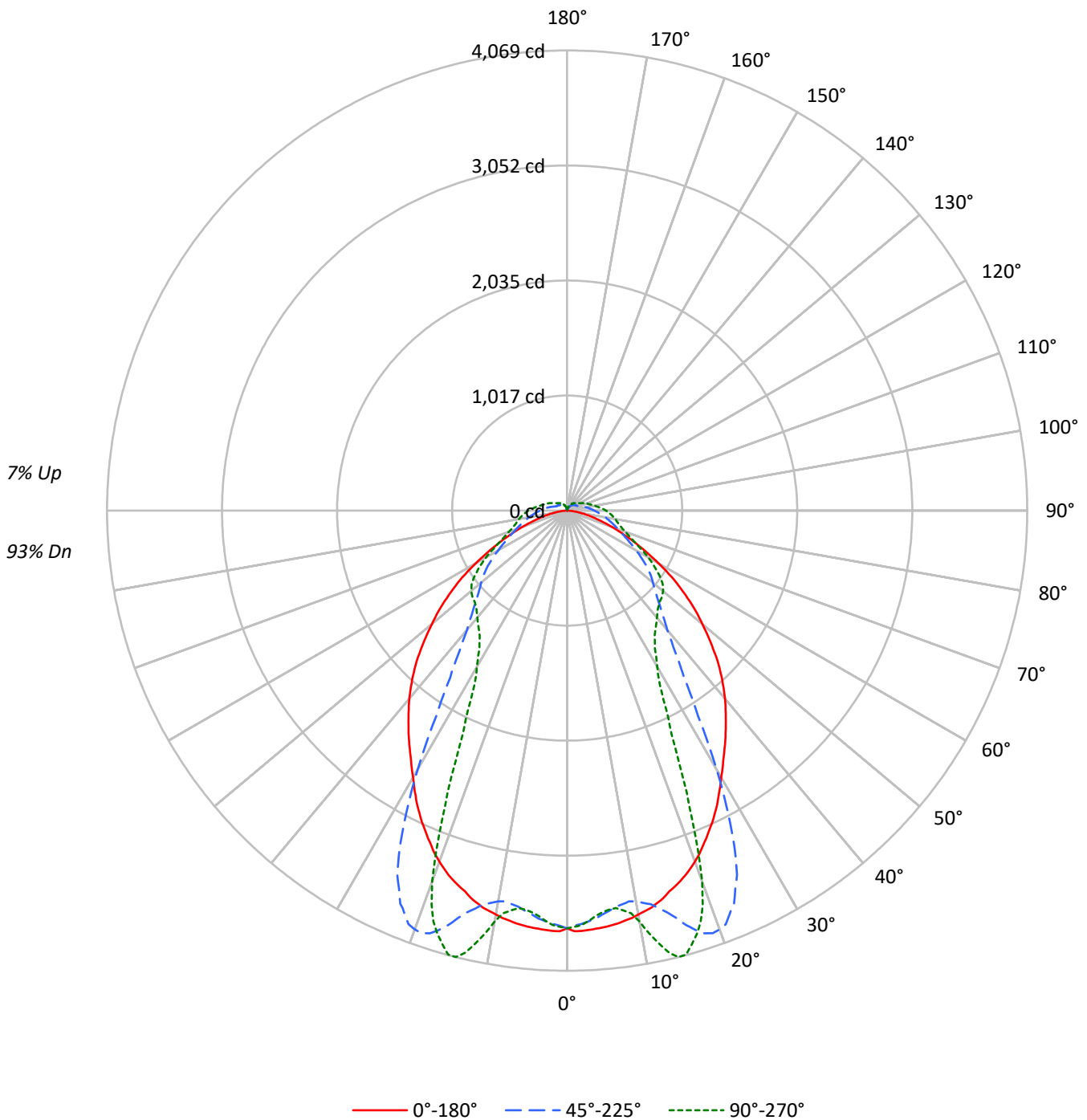
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8212.0 lumens
Efficiency: N/A
Efficacy: 127.5 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): 64.4
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°	39773	39773	39773
5°	39820	37119	36406
10°	39343	35245	36101
15°	38428	36661	38432
20°	37265	38179	32165
25°	35394	34223	19777
30°	33068	25470	14314
35°	31169	17565	12075
40°	29467	13620	11128
45°	27484	11585	10524
50°	24903	10387	10331
55°	22186	9382	9559
60°	18705	8108	8268
65°	15097	7051	6901
70°	11719	6327	6076
75°	8937	5870	5666
80°	6097	5544	5609
85°	3146	5272	5569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.8	4.2
10°-20°	1050.6	12.8
20°-30°	1414.7	17.2
30°-40°	1338.8	16.3
40°-50°	1181.7	14.4
50°-60°	959.8	11.7
60°-70°	652.8	7.9
70°-80°	420.0	5.1
80°-90°	279.3	3.4
90°-100°	192.0	2.3
100°-110°	128.8	1.6
110°-120°	90.9	1.1
120°-130°	64.9	0.8
130°-140°	45.8	0.6
140°-150°	28.5	0.3
150°-160°	13.9	0.2
160°-170°	4.9	0.1
170°-180°	0.8	0.0
0°-30°	2809.1	34.2
0°-40°	4148.0	50.5
0°-60°	6289.5	76.6
0°-90°	7641.6	93.1
90°-120°	411.7	5.0
90°-150°	550.8	6.7
90°-180°	570.0	6.9
0°-180°	8212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3695	3695	3695	3695	3695	
5°	3699	3665	3586	3583	3566	351
15°	3487	3464	3731	4061	4065	983
25°	3038	3602	3555	2582	2183	1394
35°	2441	3425	1806	1390	1348	1528
45°	1881	2304	1142	1128	1152	1444
55°	1253	1363	858	958	994	1119
65°	646	735	574	638	658	648
75°	248	347	405	454	475	270
85°	38	148	287	364	389	49
90°	1	103	240	322	344	2
95°	1	79	202	273	292	1
105°	2	55	133	187	209	2
115°	2	48	98	139	157	3
125°	4	40	84	105	113	4
135°	5	31	69	88	93	4
145°	5	23	49	68	74	3
155°	6	14	30	45	51	3
165°	6	9	16	23	28	2
175°	8	8	8	8	6	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3695.0	3695.0	3695.0	3695.0	3695.0
1°	3720.1	3708.8	3671.2	3691.2	3681.2
2°	3718.8	3700.0	3657.4	3679.9	3667.4
3°	3712.5	3692.5	3637.3	3651.1	3632.3
4°	3706.3	3682.5	3616.0	3616.0	3594.7
5°	3698.8	3664.9	3585.9	3583.4	3565.9
6°	3690.0	3651.1	3559.6	3557.1	3547.0
7°	3677.4	3627.3	3530.7	3548.3	3540.8
8°	3662.4	3604.7	3515.7	3559.6	3570.9
9°	3648.6	3577.1	3498.1	3594.7	3603.5
10°	3626.0	3552.1	3509.4	3664.9	3691.2
11°	3607.2	3530.7	3534.5	3733.9	3812.9
12°	3588.4	3508.2	3558.3	3820.4	3916.9
13°	3557.1	3490.6	3611.0	3914.4	4013.5
14°	3529.5	3476.8	3662.4	4009.7	4068.6
15°	3486.9	3464.3	3731.4	4061.1	4064.9
16°	3458.0	3455.5	3811.6	4064.9	3994.7
17°	3425.4	3451.8	3876.8	3999.7	3916.9
18°	3389.1	3459.3	3930.7	3918.2	3822.9
19°	3347.7	3466.8	3953.3	3805.3	3682.5
20°	3302.6	3478.1	3940.7	3687.5	3489.4
21°	3257.4	3493.1	3916.9	3563.3	3236.1
22.5°	3173.4	3529.5	3804.1	3214.8	2817.3
23°	3149.6	3537.0	3777.7	3105.7	2708.2
24°	3090.7	3568.4	3657.4	2851.2	2419.9
25°	3038.0	3602.2	3554.6	2581.6	2182.9
26°	2979.1	3627.3	3399.1	2333.4	2037.5
27°	2921.4	3642.3	3222.3	2140.3	1874.5
28°	2854.9	3658.6	3030.5	1973.5	1751.6
29°	2792.2	3661.1	2841.1	1840.6	1655.0
30°	2724.5	3648.6	2641.8	1734.0	1594.9
32.5°	2576.6	3579.6	2154.1	1530.9	1444.4
35°	2441.2	3425.4	1805.5	1390.5	1347.9
37.5°	2304.5	3182.2	1561.0	1302.7	1288.9
40°	2170.4	2893.8	1376.7	1232.5	1235.0
42.5°	2028.7	2596.7	1250.1	1174.8	1186.1
45°	1880.7	2304.5	1142.2	1128.4	1152.3
47.5°	1716.5	2037.5	1057.0	1098.3	1134.7
50°	1561.0	1772.9	990.5	1069.5	1107.1
52.5°	1413.1	1556.0	930.3	1020.6	1064.5
55°	1252.6	1362.9	857.6	957.9	994.3
57.5°	1099.6	1188.6	781.1	880.2	912.8
60°	931.6	1016.8	703.4	796.2	827.5
62.5°	779.9	870.1	636.9	712.2	737.2
65°	645.7	734.7	574.2	638.2	658.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	526.6	621.9	522.8	576.8	595.6
70°	415.0	515.3	477.7	526.6	546.7
72.5°	324.7	426.3	440.1	485.2	505.3
75°	248.3	347.3	405.0	453.9	475.2
77.5°	184.3	283.4	372.4	428.8	451.4
80°	121.6	225.7	343.5	406.2	432.6
82.5°	76.5	181.8	314.7	383.7	411.3
85°	37.6	148.0	287.1	363.6	388.7
87.5°	12.5	122.9	262.0	343.5	364.9
90°	1.3	102.8	239.5	322.2	343.5
92.5°	1.3	89.0	220.7	297.2	318.5
95°	1.3	79.0	201.9	273.3	292.1
97.5°	1.3	71.5	184.3	248.3	268.3
100°	1.3	63.9	165.5	224.4	245.7
102.5°	2.5	58.9	149.2	204.4	226.9
105°	2.5	55.2	132.9	186.8	209.4
107.5°	2.5	52.7	119.1	173.0	194.3
110°	2.5	50.2	109.1	160.5	183.1
112.5°	2.5	48.9	102.8	149.2	170.5
115°	2.5	47.6	97.8	139.2	156.7
117.5°	3.8	46.4	94.0	129.1	142.9
120°	3.8	43.9	91.5	120.4	131.7
122.5°	3.8	41.4	87.8	112.8	121.6
125°	3.8	40.1	84.0	105.3	112.8
127.5°	3.8	37.6	80.2	99.1	106.6
130°	5.0	35.1	76.5	94.0	100.3
132.5°	5.0	32.6	72.7	91.5	96.5
135°	5.0	31.3	69.0	87.8	92.8
137.5°	5.0	28.8	65.2	84.0	89.0
140°	5.0	26.3	60.2	79.0	84.0
142.5°	5.0	25.1	55.2	74.0	79.0
145°	5.0	22.6	48.9	67.7	74.0
147.5°	6.3	21.3	43.9	62.7	67.7
150°	6.3	18.8	38.9	57.7	62.7
152.5°	6.3	16.3	33.9	51.4	56.4
155°	6.3	13.8	30.1	45.1	51.4
157.5°	6.3	12.5	26.3	37.6	45.1
160°	6.3	11.3	22.6	32.6	38.9
162.5°	6.3	10.0	20.1	27.6	33.9
165°	6.3	8.8	16.3	22.6	27.6
167.5°	7.5	8.8	13.8	17.6	22.6
170°	7.5	8.8	11.3	13.8	17.6
172.5°	7.5	7.5	8.8	10.0	11.3
175°	7.5	7.5	7.5	7.5	6.3
177.5°	7.5	7.5	7.5	6.3	6.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	6.3	6.3	6.3	6.3	6.3

(END OF REPORT)