

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: P566964

Luminaire Tested: **4SNX-90HL-LC-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566964
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-L940-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

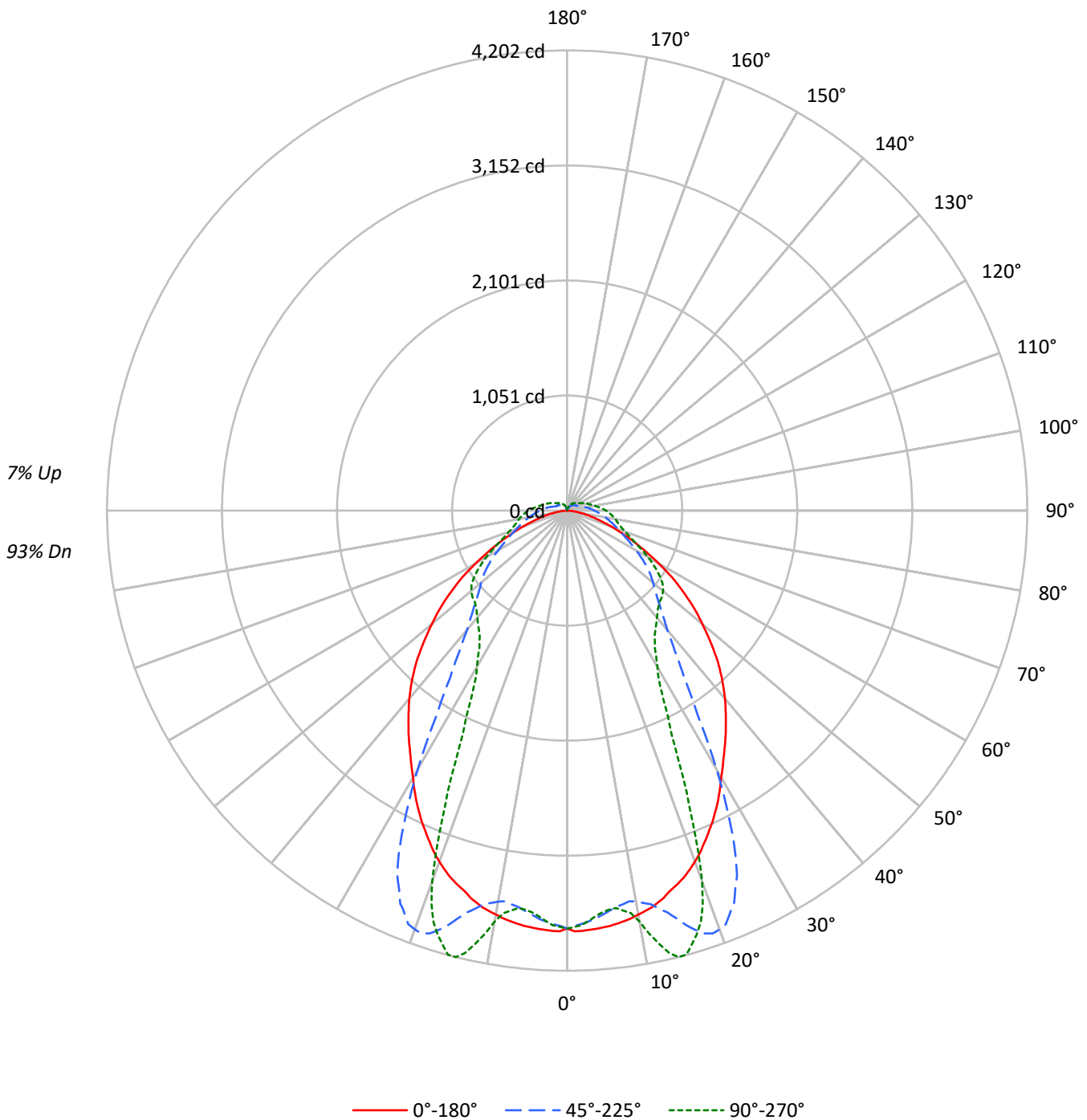
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8482.0 lumens
Efficiency: N/A
Efficacy: 131.7 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 (A_{in}): 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°	41080	41080	41080
5°	41130	38340	37603
10°	40637	36404	37288
15°	39691	37866	39695
20°	38489	39435	33222
25°	36557	35348	20428
30°	34155	26307	14784
35°	32193	18142	12472
40°	30435	14068	11494
45°	28388	11966	10870
50°	25722	10728	10671
55°	22914	9691	9873
60°	19320	8375	8539
65°	15592	7283	7127
70°	12106	6535	6275
75°	9228	6063	5852
80°	6297	5726	5793
85°	3254	5447	5752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.1	4.2
10°-20°	1085.2	12.8
20°-30°	1461.2	17.2
30°-40°	1382.9	16.3
40°-50°	1220.6	14.4
50°-60°	991.4	11.7
60°-70°	674.2	7.9
70°-80°	433.8	5.1
80°-90°	288.5	3.4
90°-100°	198.2	2.3
100°-110°	133.1	1.6
110°-120°	93.9	1.1
120°-130°	67.1	0.8
130°-140°	47.3	0.6
140°-150°	29.4	0.3
150°-160°	14.3	0.2
160°-170°	5.0	0.1
170°-180°	0.9	0.0
0°-30°	2901.5	34.2
0°-40°	4284.3	50.5
0°-60°	6496.3	76.6
0°-90°	7892.8	93.1
90°-120°	425.2	5.0
90°-150°	568.9	6.7
90°-180°	589.0	6.9
0°-180°	8482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3816	3816	3816	3816	3816	
5°	3820	3785	3704	3701	3683	362
15°	3602	3578	3854	4195	4198	1015
25°	3138	3721	3671	2666	2255	1440
35°	2521	3538	1865	1436	1392	1578
45°	1943	2380	1180	1166	1190	1491
55°	1294	1408	886	989	1027	1155
65°	667	759	593	659	680	670
75°	256	359	418	469	491	279
85°	39	153	297	376	402	51
90°	1	106	247	333	355	2
95°	1	82	208	282	302	1
105°	3	57	137	193	216	3
115°	3	49	101	144	162	3
125°	4	41	87	109	117	4
135°	5	32	71	91	96	4
145°	5	23	50	70	76	4
155°	6	14	31	47	53	3
165°	6	9	17	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°	3816.5	3816.5	3816.5	3816.5	3816.5
1°	3842.4	3830.7	3791.9	3812.6	3802.2
2°	3841.1	3821.7	3777.6	3800.9	3788.0
3°	3834.6	3813.9	3756.9	3771.2	3751.7
4°	3828.1	3803.5	3734.9	3734.9	3712.9
5°	3820.4	3785.4	3703.8	3701.2	3683.1
6°	3811.3	3771.2	3676.6	3674.0	3663.7
7°	3798.4	3746.6	3646.8	3665.0	3657.2
8°	3782.8	3723.2	3631.3	3676.6	3688.3
9°	3768.6	3694.7	3613.2	3712.9	3721.9
10°	3745.3	3668.8	3624.8	3785.4	3812.6
11°	3725.8	3646.8	3650.7	3856.6	3938.2
12°	3706.4	3623.5	3675.3	3946.0	4045.7
13°	3674.0	3605.4	3729.7	4043.1	4145.4
14°	3645.5	3591.1	3782.8	4141.5	4202.4
15°	3601.5	3578.2	3854.0	4194.6	4198.5
16°	3571.7	3569.1	3936.9	4198.5	4126.0
17°	3538.0	3565.2	4004.3	4131.2	4045.7
18°	3500.5	3573.0	4059.9	4047.0	3948.6
19°	3457.8	3580.8	4083.3	3930.4	3803.5
20°	3411.1	3592.4	4070.3	3808.7	3604.1
21°	3364.5	3608.0	4045.7	3680.5	3342.5
22.5°	3277.7	3645.5	3929.2	3320.5	2910.0
23°	3253.1	3653.3	3902.0	3207.8	2797.3
24°	3192.3	3685.7	3777.6	2944.9	2499.4
25°	3137.9	3720.6	3671.4	2666.5	2254.7
26°	3077.0	3746.6	3510.9	2410.1	2104.4
27°	3017.4	3762.1	3328.3	2210.6	1936.1
28°	2948.8	3778.9	3130.1	2038.4	1809.2
29°	2884.1	3781.5	2934.6	1901.1	1709.5
30°	2814.1	3768.6	2728.6	1791.0	1647.3
32.5°	2661.3	3697.3	2224.9	1581.2	1491.9
35°	2521.4	3538.0	1864.9	1436.2	1392.2
37.5°	2380.3	3286.8	1612.3	1345.5	1331.3
40°	2241.7	2989.0	1422.0	1273.0	1275.6
42.5°	2095.4	2682.0	1291.2	1213.5	1225.1
45°	1942.6	2380.3	1179.8	1165.5	1190.1
47.5°	1772.9	2104.4	1091.7	1134.5	1172.0
50°	1612.3	1831.2	1023.1	1104.7	1143.5
52.5°	1459.5	1607.1	960.9	1054.2	1099.5
55°	1293.7	1407.7	885.8	989.4	1027.0
57.5°	1135.7	1227.7	806.8	909.1	942.8
60°	962.2	1050.3	726.5	822.4	854.7
62.5°	805.5	898.8	657.9	735.6	761.5
65°	666.9	758.9	593.1	659.2	679.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	543.9	642.3	540.0	595.7	615.1
70°	428.7	532.3	493.4	543.9	564.6
72.5°	335.4	440.3	454.6	501.2	521.9
75°	256.4	358.7	418.3	468.8	490.8
77.5°	190.4	292.7	384.6	442.9	466.2
80°	125.6	233.1	354.8	419.6	446.8
82.5°	79.0	187.8	325.1	396.3	424.8
85°	38.9	152.8	296.6	375.6	401.5
87.5°	13.0	126.9	270.7	354.8	376.9
90°	1.3	106.2	247.4	332.8	354.8
92.5°	1.3	91.9	227.9	306.9	328.9
95°	1.3	81.6	208.5	282.3	301.7
97.5°	1.3	73.8	190.4	256.4	277.1
100°	1.3	66.0	170.9	231.8	253.8
102.5°	2.6	60.9	154.1	211.1	234.4
105°	2.6	57.0	137.3	193.0	216.3
107.5°	2.6	54.4	123.0	178.7	200.7
110°	2.6	51.8	112.7	165.8	189.1
112.5°	2.6	50.5	106.2	154.1	176.1
115°	2.6	49.2	101.0	143.7	161.9
117.5°	3.9	47.9	97.1	133.4	147.6
120°	3.9	45.3	94.5	124.3	136.0
122.5°	3.9	42.7	90.7	116.6	125.6
125°	3.9	41.4	86.8	108.8	116.6
127.5°	3.9	38.9	82.9	102.3	110.1
130°	5.2	36.3	79.0	97.1	103.6
132.5°	5.2	33.7	75.1	94.5	99.7
135°	5.2	32.4	71.2	90.7	95.8
137.5°	5.2	29.8	67.3	86.8	91.9
140°	5.2	27.2	62.2	81.6	86.8
142.5°	5.2	25.9	57.0	76.4	81.6
145°	5.2	23.3	50.5	69.9	76.4
147.5°	6.5	22.0	45.3	64.8	69.9
150°	6.5	19.4	40.1	59.6	64.8
152.5°	6.5	16.8	35.0	53.1	58.3
155°	6.5	14.2	31.1	46.6	53.1
157.5°	6.5	13.0	27.2	38.9	46.6
160°	6.5	11.7	23.3	33.7	40.1
162.5°	6.5	10.4	20.7	28.5	35.0
165°	6.5	9.1	16.8	23.3	28.5
167.5°	7.8	9.1	14.2	18.1	23.3
170°	7.8	9.1	11.7	14.2	18.1
172.5°	7.8	7.8	9.1	10.4	11.7
175°	7.8	7.8	7.8	7.8	6.5
177.5°	7.8	7.8	7.8	6.5	6.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	6.5	6.5	6.5	6.5	6.5

(END OF REPORT)