

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: P566961

Luminaire Tested: **4SNX-90HL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566961
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-L850-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

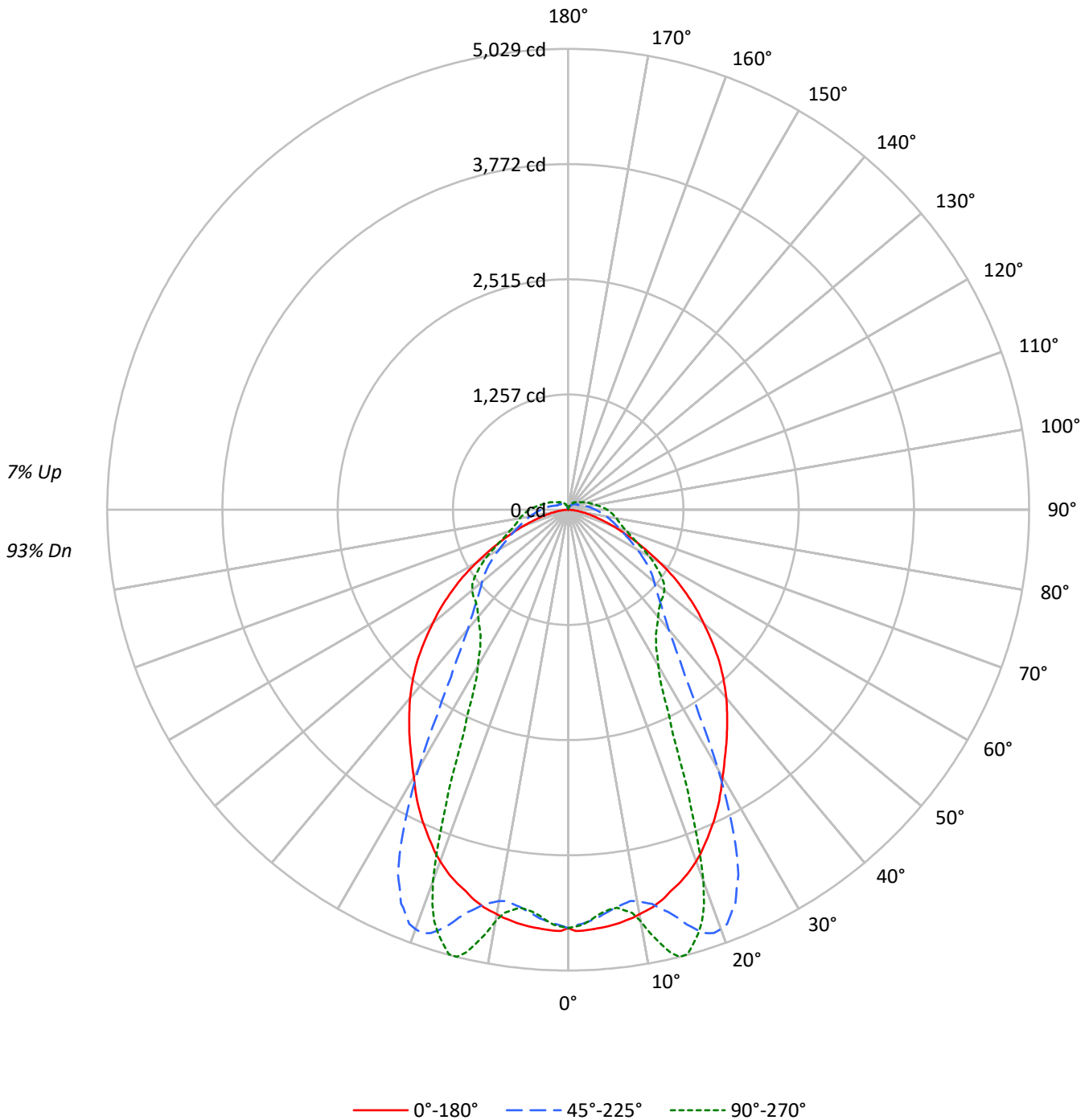
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10149.9 lumens
Efficiency: N/A
Efficacy: 157.6 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): 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	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	37	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°	49159	49159	49159
5°	49217	45880	44998
10°	48629	43562	44621
15°	47495	45312	47502
20°	46059	47190	39755
25°	43747	42299	24444
30°	40872	31480	17691
35°	38524	21710	14924
40°	36421	16834	13755
45°	33971	14319	13008
50°	30781	12838	12769
55°	27422	11597	11814
60°	23119	10022	10219
65°	18660	8716	8529
70°	14486	7820	7510
75°	11042	7256	7002
80°	7536	6853	6933
85°	3890	6518	6883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.0	4.2
10°-20°	1298.6	12.8
20°-30°	1748.5	17.2
30°-40°	1654.8	16.3
40°-50°	1460.6	14.4
50°-60°	1186.3	11.7
60°-70°	806.8	7.9
70°-80°	519.1	5.1
80°-90°	345.2	3.4
90°-100°	237.2	2.3
100°-110°	159.3	1.6
110°-120°	112.3	1.1
120°-130°	80.2	0.8
130°-140°	56.6	0.6
140°-150°	35.1	0.3
150°-160°	17.1	0.2
160°-170°	6.0	0.1
170°-180°	1.0	0.0
0°-30°	3472.0	34.2
0°-40°	5126.9	50.5
0°-60°	7773.8	76.6
0°-90°	9445.0	93.1
90°-120°	508.8	5.0
90°-150°	680.8	6.7
90°-180°	705.0	6.9
0°-180°	10149.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4567	4567	4567	4567	4567	
5°	4572	4530	4432	4429	4407	434
15°	4310	4282	4612	5020	5024	1215
25°	3755	4452	4393	3191	2698	1723
35°	3017	4234	2232	1719	1666	1888
45°	2325	2848	1412	1395	1424	1785
55°	1548	1684	1060	1184	1229	1383
65°	798	908	710	789	814	801
75°	307	429	501	561	587	334
85°	46	183	355	449	480	61
90°	2	127	296	398	425	3
95°	2	98	250	338	361	1
105°	3	68	164	231	259	3
115°	3	59	121	172	194	4
125°	5	50	104	130	140	4
135°	6	39	85	108	115	5
145°	6	28	60	84	91	4
155°	8	17	37	56	64	4
165°	8	11	20	28	34	2
175°	9	9	9	9	8	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4567.0	4567.0	4567.0	4567.0	4567.0
1°	4598.0	4584.0	4537.6	4562.4	4550.0
2°	4596.4	4573.2	4520.5	4548.4	4532.9
3°	4588.7	4563.9	4495.7	4512.8	4489.5
4°	4580.9	4551.5	4469.4	4469.4	4443.0
5°	4571.6	4529.8	4432.2	4429.1	4407.4
6°	4560.8	4512.8	4399.6	4396.5	4384.1
7°	4545.3	4483.3	4364.0	4385.7	4376.4
8°	4526.7	4455.4	4345.4	4399.6	4413.6
9°	4509.7	4421.3	4323.7	4443.0	4453.9
10°	4481.8	4390.3	4337.6	4529.8	4562.4
11°	4458.5	4364.0	4368.6	4615.0	4712.7
12°	4435.3	4336.1	4398.1	4722.0	4841.3
13°	4396.5	4314.4	4463.2	4838.2	4960.6
14°	4362.4	4297.4	4526.7	4956.0	5028.8
15°	4309.7	4281.9	4611.9	5019.5	5024.2
16°	4274.1	4271.0	4711.1	5024.2	4937.4
17°	4233.8	4266.4	4791.7	4943.6	4841.3
18°	4188.9	4275.7	4858.3	4842.8	4725.1
19°	4137.7	4285.0	4886.2	4703.4	4551.5
20°	4081.9	4298.9	4870.7	4557.7	4312.8
21°	4026.2	4317.5	4841.3	4404.3	3999.8
22.5°	3922.3	4362.4	4701.8	3973.5	3482.2
23°	3892.9	4371.7	4669.3	3838.6	3347.4
24°	3820.0	4410.5	4520.5	3524.0	2990.9
25°	3755.0	4452.3	4393.4	3190.9	2698.0
26°	3682.1	4483.3	4201.3	2884.0	2518.3
27°	3610.8	4501.9	3982.8	2645.4	2316.8
28°	3528.7	4522.1	3745.7	2439.2	2164.9
29°	3451.2	4525.2	3511.6	2275.0	2045.6
30°	3367.5	4509.7	3265.2	2143.3	1971.2
32.5°	3184.7	4424.4	2662.4	1892.2	1785.3
35°	3017.3	4233.8	2231.6	1718.6	1665.9
37.5°	2848.4	3933.2	1929.4	1610.2	1593.1
40°	2682.6	3576.7	1701.6	1523.4	1526.5
42.5°	2507.4	3209.5	1545.1	1452.1	1466.0
45°	2324.6	2848.4	1411.8	1394.7	1424.2
47.5°	2121.6	2518.3	1306.4	1357.5	1402.5
50°	1929.4	2191.3	1224.3	1321.9	1368.4
52.5°	1746.5	1923.2	1149.9	1261.5	1315.7
55°	1548.2	1684.5	1060.0	1184.0	1228.9
57.5°	1359.1	1469.1	965.5	1087.9	1128.2
60°	1151.4	1256.8	869.4	984.1	1022.8
62.5°	963.9	1075.5	787.3	880.2	911.2
65°	798.1	908.1	709.8	788.8	813.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	650.9	768.7	646.2	712.9	736.1
70°	513.0	636.9	590.4	650.9	675.7
72.5°	401.4	526.9	543.9	599.7	624.5
75°	306.8	429.3	500.6	561.0	587.3
77.5°	227.8	350.2	460.3	530.0	557.9
80°	150.3	278.9	424.6	502.1	534.7
82.5°	94.5	224.7	389.0	474.2	508.3
85°	46.5	182.9	354.9	449.4	480.4
87.5°	15.5	151.9	323.9	424.6	451.0
90°	1.5	127.1	296.0	398.3	424.6
92.5°	1.5	110.0	272.7	367.3	393.6
95°	1.5	97.6	249.5	337.8	361.1
97.5°	1.5	88.3	227.8	306.8	331.6
100°	1.5	79.0	204.6	277.4	303.7
102.5°	3.1	72.8	184.4	252.6	280.5
105°	3.1	68.2	164.3	230.9	258.8
107.5°	3.1	65.1	147.2	213.9	240.2
110°	3.1	62.0	134.8	198.4	226.3
112.5°	3.1	60.4	127.1	184.4	210.8
115°	3.1	58.9	120.9	172.0	193.7
117.5°	4.6	57.3	116.2	159.6	176.7
120°	4.6	54.2	113.1	148.8	162.7
122.5°	4.6	51.1	108.5	139.5	150.3
125°	4.6	49.6	103.8	130.2	139.5
127.5°	4.6	46.5	99.2	122.4	131.7
130°	6.2	43.4	94.5	116.2	124.0
132.5°	6.2	40.3	89.9	113.1	119.3
135°	6.2	38.7	85.2	108.5	114.7
137.5°	6.2	35.6	80.6	103.8	110.0
140°	6.2	32.5	74.4	97.6	103.8
142.5°	6.2	31.0	68.2	91.4	97.6
145°	6.2	27.9	60.4	83.7	91.4
147.5°	7.7	26.3	54.2	77.5	83.7
150°	7.7	23.2	48.0	71.3	77.5
152.5°	7.7	20.1	41.8	63.5	69.7
155°	7.7	17.0	37.2	55.8	63.5
157.5°	7.7	15.5	32.5	46.5	55.8
160°	7.7	13.9	27.9	40.3	48.0
162.5°	7.7	12.4	24.8	34.1	41.8
165°	7.7	10.8	20.1	27.9	34.1
167.5°	9.3	10.8	17.0	21.7	27.9
170°	9.3	10.8	13.9	17.0	21.7
172.5°	9.3	9.3	10.8	12.4	13.9
175°	9.3	9.3	9.3	9.3	7.7
177.5°	9.3	9.3	9.3	7.7	7.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	7.7	7.7	7.7	7.7	7.7

(END OF REPORT)