

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: P567009

Luminaire Tested: **4SNX-93HL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567009
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-93HL-LC-UNV-L850-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

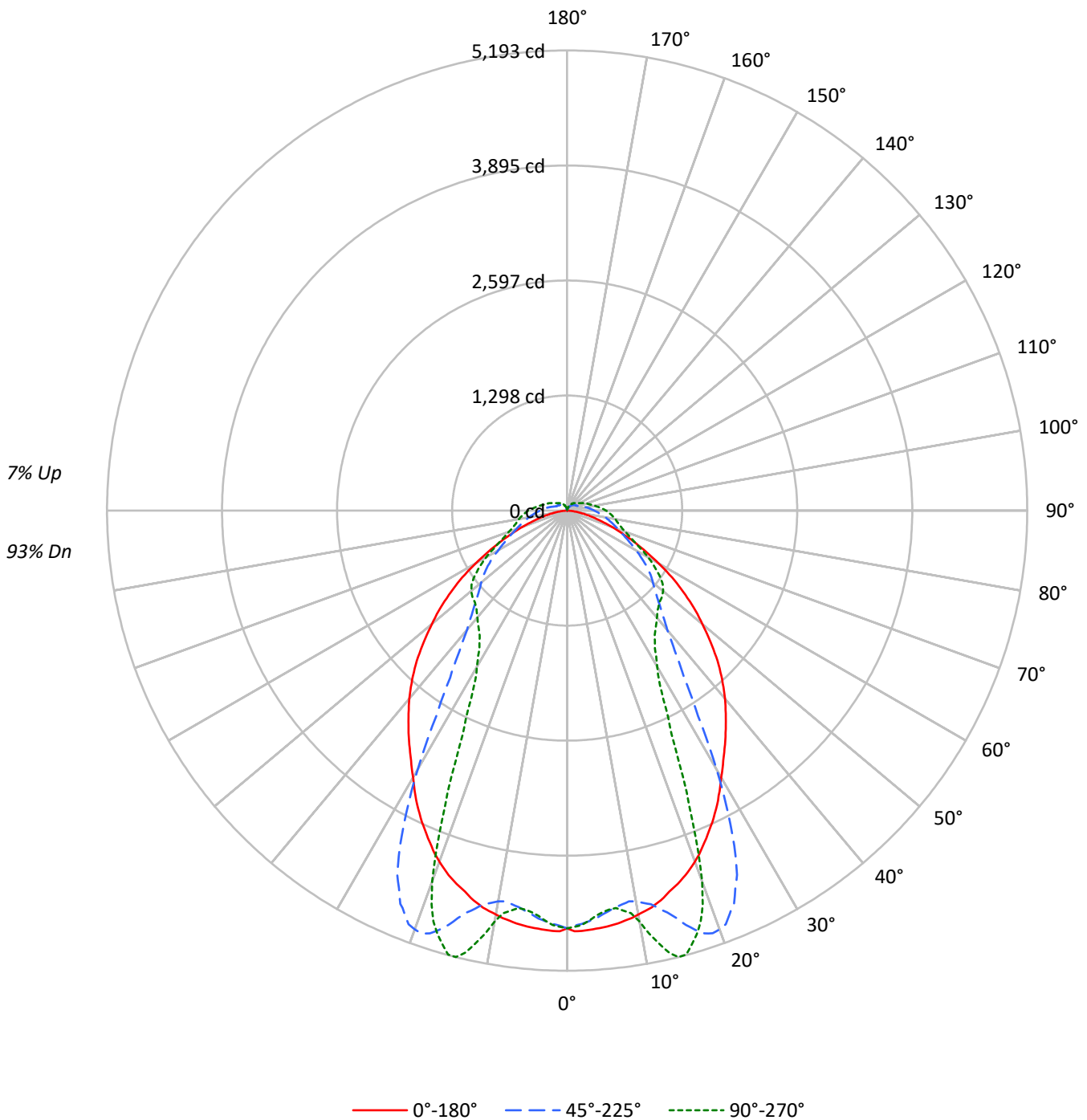
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10480.9 lumens
Efficiency: N/A
Efficacy: 155.5 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): 67.4
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	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°	50762	50762	50762
5°	50822	47375	46465
10°	50214	44984	46076
15°	49045	46790	49051
20°	47561	48729	41052
25°	45173	43679	25241
30°	42204	32507	18268
35°	39781	22418	15411
40°	37607	17383	14203
45°	35078	14786	13432
50°	31784	13257	13186
55°	28315	11975	12199
60°	23874	10348	10552
65°	19268	9000	8806
70°	14958	8075	7754
75°	11402	7492	7231
80°	7782	7077	7158
85°	4016	6731	7108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.8	4.2
10°-20°	1340.9	12.8
20°-30°	1805.5	17.2
30°-40°	1708.8	16.3
40°-50°	1508.2	14.4
50°-60°	1225.0	11.7
60°-70°	833.1	7.9
70°-80°	536.1	5.1
80°-90°	356.5	3.4
90°-100°	245.0	2.3
100°-110°	164.4	1.6
110°-120°	116.0	1.1
120°-130°	82.9	0.8
130°-140°	58.5	0.6
140°-150°	36.3	0.3
150°-160°	17.7	0.2
160°-170°	6.2	0.1
170°-180°	1.1	0.0
0°-30°	3585.3	34.2
0°-40°	5294.0	50.5
0°-60°	8027.3	76.6
0°-90°	9753.0	93.1
90°-120°	525.4	5.0
90°-150°	703.0	6.7
90°-180°	728.0	6.9
0°-180°	10480.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4716	4716	4716	4716	4716	
5°	4721	4678	4577	4574	4551	448
15°	4450	4422	4762	5183	5188	1255
25°	3877	4598	4537	3295	2786	1779
35°	3116	4372	2304	1775	1720	1950
45°	2400	2941	1458	1440	1471	1843
55°	1599	1740	1095	1223	1269	1428
65°	824	938	733	814	840	827
75°	317	443	517	579	606	345
85°	48	189	366	464	496	63
90°	2	131	306	411	438	3
95°	2	101	258	349	373	1
105°	3	70	170	238	267	3
115°	3	61	125	178	200	4
125°	5	51	107	134	144	4
135°	6	40	88	112	118	5
145°	6	29	62	86	94	4
155°	8	18	38	58	66	4
165°	8	11	21	29	35	2
175°	10	10	10	10	8	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4715.9	4715.9	4715.9	4715.9	4715.9
1°	4747.9	4733.5	4685.5	4711.1	4698.3
2°	4746.3	4722.3	4667.9	4696.7	4680.7
3°	4738.3	4712.7	4642.3	4659.9	4635.9
4°	4730.3	4699.9	4615.1	4615.1	4587.9
5°	4720.7	4677.5	4576.7	4573.5	4551.1
6°	4709.5	4659.9	4543.1	4539.9	4527.1
7°	4693.5	4629.5	4506.3	4528.7	4519.1
8°	4674.3	4600.7	4487.1	4543.1	4557.5
9°	4656.7	4565.5	4464.7	4587.9	4599.1
10°	4627.9	4533.5	4479.1	4677.5	4711.1
11°	4603.9	4506.3	4511.1	4765.5	4866.4
12°	4579.9	4477.5	4541.5	4876.0	4999.2
13°	4539.9	4455.1	4608.7	4996.0	5122.4
14°	4504.7	4437.5	4674.3	5117.6	5192.8
15°	4450.3	4421.5	4762.3	5183.2	5188.0
16°	4413.5	4410.3	4864.8	5188.0	5098.4
17°	4371.9	4405.5	4948.0	5104.8	4999.2
18°	4325.5	4415.1	5016.8	5000.8	4879.2
19°	4272.7	4424.7	5045.6	4856.8	4699.9
20°	4215.1	4439.1	5029.6	4706.3	4453.5
21°	4157.4	4458.3	4999.2	4547.9	4130.2
22.5°	4050.2	4504.7	4855.2	4103.0	3595.8
23°	4019.8	4514.3	4821.6	3963.8	3456.5
24°	3944.6	4554.3	4667.9	3639.0	3088.5
25°	3877.4	4597.5	4536.7	3294.9	2786.0
26°	3802.2	4629.5	4338.3	2978.1	2600.4
27°	3728.6	4648.7	4112.6	2731.6	2392.4
28°	3643.8	4669.5	3867.8	2518.8	2235.5
29°	3563.8	4672.7	3626.2	2349.2	2112.3
30°	3477.3	4656.7	3371.7	2213.1	2035.5
32.5°	3288.5	4568.7	2749.2	1953.9	1843.5
35°	3115.7	4371.9	2304.4	1774.7	1720.3
37.5°	2941.3	4061.4	1992.3	1662.7	1645.1
40°	2770.0	3693.4	1757.1	1573.0	1576.2
42.5°	2589.2	3314.1	1595.4	1499.4	1513.8
45°	2400.4	2941.3	1457.8	1440.2	1470.6
47.5°	2190.7	2600.4	1349.0	1401.8	1448.2
50°	1992.3	2262.8	1264.2	1365.0	1413.0
52.5°	1803.5	1985.9	1187.4	1302.6	1358.6
55°	1598.6	1739.5	1094.6	1222.6	1269.0
57.5°	1403.4	1517.0	997.0	1123.4	1165.0
60°	1189.0	1297.8	897.7	1016.2	1056.2
62.5°	995.4	1110.6	812.9	908.9	940.9
65°	824.1	937.7	732.9	814.5	840.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	672.1	793.7	667.3	736.1	760.1
70°	529.7	657.7	609.7	672.1	697.7
72.5°	414.5	544.1	561.7	619.3	644.9
75°	316.8	443.3	516.9	579.3	606.5
77.5°	235.2	361.7	475.3	547.3	576.1
80°	155.2	288.0	438.5	518.5	552.1
82.5°	97.6	232.0	401.7	489.7	524.9
85°	48.0	188.8	366.5	464.1	496.1
87.5°	16.0	156.8	334.5	438.5	465.7
90°	1.6	131.2	305.6	411.3	438.5
92.5°	1.6	113.6	281.6	379.3	406.5
95°	1.6	100.8	257.6	348.9	372.9
97.5°	1.6	91.2	235.2	316.8	342.5
100°	1.6	81.6	211.2	286.4	313.6
102.5°	3.2	75.2	190.4	260.8	289.6
105°	3.2	70.4	169.6	238.4	267.2
107.5°	3.2	67.2	152.0	220.8	248.0
110°	3.2	64.0	139.2	204.8	233.6
112.5°	3.2	62.4	131.2	190.4	217.6
115°	3.2	60.8	124.8	177.6	200.0
117.5°	4.8	59.2	120.0	164.8	182.4
120°	4.8	56.0	116.8	153.6	168.0
122.5°	4.8	52.8	112.0	144.0	155.2
125°	4.8	51.2	107.2	134.4	144.0
127.5°	4.8	48.0	102.4	126.4	136.0
130°	6.4	44.8	97.6	120.0	128.0
132.5°	6.4	41.6	92.8	116.8	123.2
135°	6.4	40.0	88.0	112.0	118.4
137.5°	6.4	36.8	83.2	107.2	113.6
140°	6.4	33.6	76.8	100.8	107.2
142.5°	6.4	32.0	70.4	94.4	100.8
145°	6.4	28.8	62.4	86.4	94.4
147.5°	8.0	27.2	56.0	80.0	86.4
150°	8.0	24.0	49.6	73.6	80.0
152.5°	8.0	20.8	43.2	65.6	72.0
155°	8.0	17.6	38.4	57.6	65.6
157.5°	8.0	16.0	33.6	48.0	57.6
160°	8.0	14.4	28.8	41.6	49.6
162.5°	8.0	12.8	25.6	35.2	43.2
165°	8.0	11.2	20.8	28.8	35.2
167.5°	9.6	11.2	17.6	22.4	28.8
170°	9.6	11.2	14.4	17.6	22.4
172.5°	9.6	9.6	11.2	12.8	14.4
175°	9.6	9.6	9.6	9.6	8.0
177.5°	9.6	9.6	9.6	8.0	8.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	8.0	8.0	8.0	8.0	8.0

(END OF REPORT)