

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: P565956

Luminaire Tested: **4SNX-100HL-LC-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565956  
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-100HL-LC-UNV-L940-CD  
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

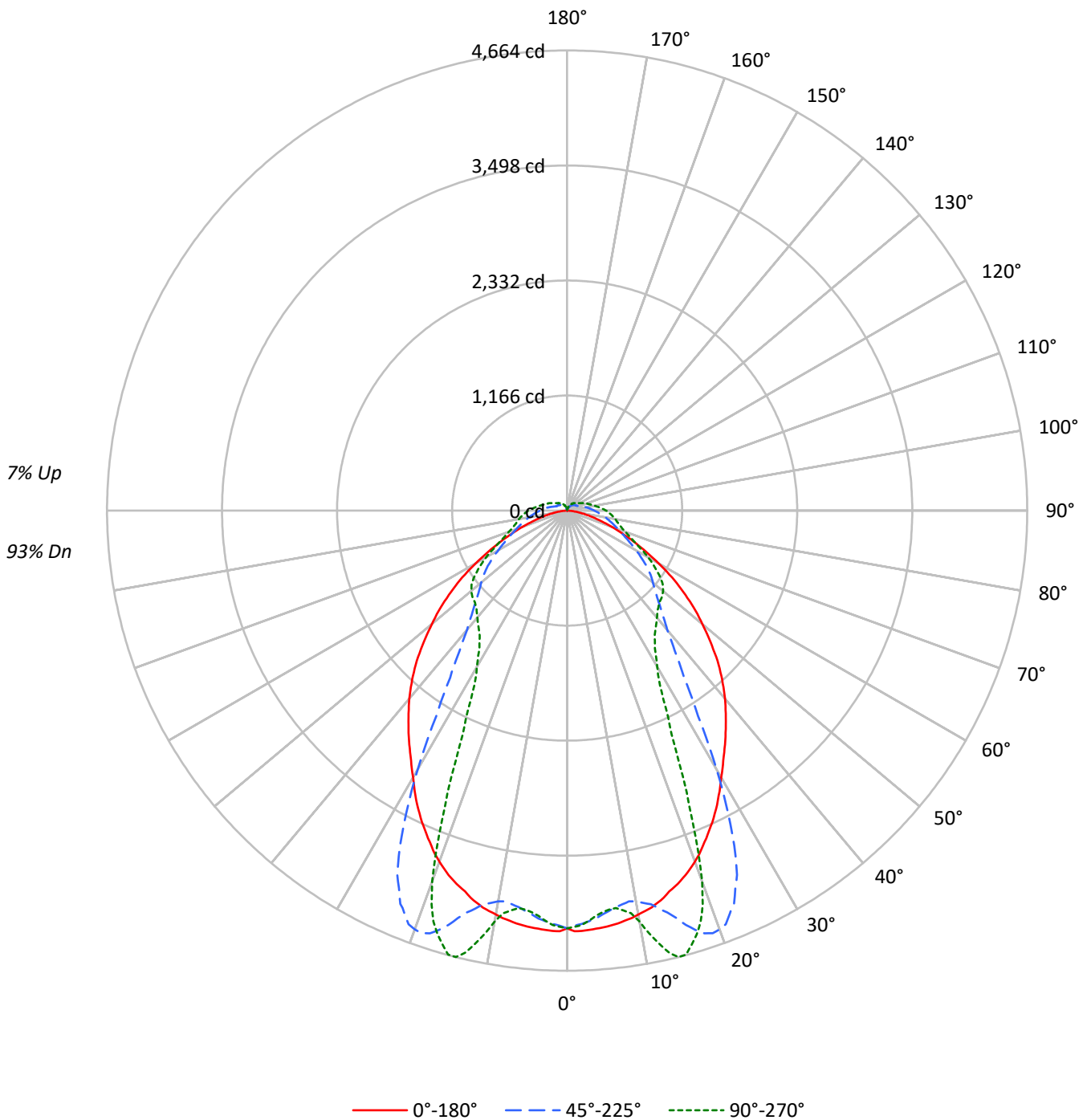
Lumens per Lamp: N/A  
Luminaire Lumens: 9413.0 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 72.5  
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	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°	45589	45589	45589
5°	45644	42548	41730
10°	45097	40400	41381
15°	44047	42023	44053
20°	42714	43764	36869
25°	40570	39228	22669
30°	37904	29195	16407
35°	35727	20133	13841
40°	33776	15612	12755
45°	31504	13279	12063
50°	28546	11906	11842
55°	25430	10754	10956
60°	21440	9294	9476
65°	17306	8082	7909
70°	13433	7253	6964
75°	10243	6728	6494
80°	6989	6356	6428
85°	3606	6044	6383



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	394.1	4.2
10°-20°	1204.3	12.8
20°-30°	1621.6	17.2
30°-40°	1534.6	16.3
40°-50°	1354.5	14.4
50°-60°	1100.2	11.7
60°-70°	748.2	7.9
70°-80°	481.5	5.1
80°-90°	320.1	3.4
90°-100°	220.0	2.3
100°-110°	147.7	1.6
110°-120°	104.2	1.1
120°-130°	74.4	0.8
130°-140°	52.5	0.6
140°-150°	32.6	0.3
150°-160°	15.9	0.2
160°-170°	5.6	0.1
170°-180°	1.0	0.0
0°-30°	3219.9	34.2
0°-40°	4754.6	50.5
0°-60°	7209.3	76.6
0°-90°	8759.2	93.1
90°-120°	471.9	5.0
90°-150°	631.4	6.7
90°-180°	654.0	6.9
0°-180°	9413.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4235	4235	4235	4235	4235	
5°	4240	4201	4110	4108	4087	402
15°	3997	3971	4277	4655	4659	1127
25°	3482	4129	4074	2959	2502	1598
35°	2798	3926	2070	1594	1545	1751
45°	2156	2642	1309	1294	1321	1655
55°	1436	1562	983	1098	1140	1282
65°	740	842	658	732	754	743
75°	285	398	464	520	545	310
85°	43	170	329	417	446	56
90°	1	118	274	369	394	3
95°	1	90	231	313	335	1
105°	3	63	152	214	240	3
115°	3	55	112	160	180	3
125°	4	46	96	121	129	4
135°	6	36	79	101	106	4
145°	6	26	56	78	85	4
155°	7	16	34	52	59	3
165°	7	10	19	26	32	2
175°	9	9	9	9	7	1
180°	7	7	7	7	7	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4235.4	4235.4	4235.4	4235.4	4235.4
1°	4264.1	4251.2	4208.1	4231.1	4219.6
2°	4262.7	4241.1	4192.3	4218.1	4203.8
3°	4255.5	4232.5	4169.3	4185.1	4163.5
4°	4248.3	4221.0	4144.8	4144.8	4120.4
5°	4239.7	4200.9	4110.4	4107.5	4087.4
6°	4229.6	4185.1	4080.2	4077.3	4065.8
7°	4215.3	4157.8	4047.1	4067.2	4058.6
8°	4198.0	4131.9	4029.9	4080.2	4093.1
9°	4182.2	4100.3	4009.7	4120.4	4130.5
10°	4156.3	4071.5	4022.7	4200.9	4231.1
11°	4134.8	4047.1	4051.4	4279.9	4370.5
12°	4113.2	4021.2	4078.7	4379.1	4489.8
13°	4077.3	4001.1	4139.1	4486.9	4600.4
14°	4045.7	3985.3	4198.0	4596.1	4663.7
15°	3996.8	3970.9	4277.1	4655.0	4659.4
16°	3963.8	3960.9	4369.0	4659.4	4578.9
17°	3926.4	3956.6	4443.8	4584.6	4489.8
18°	3884.7	3965.2	4505.6	4491.2	4382.0
19°	3837.3	3973.8	4531.4	4361.9	4221.0
20°	3785.5	3986.8	4517.1	4226.8	3999.7
21°	3733.8	4004.0	4489.8	4084.5	3709.4
22.5°	3637.5	4045.7	4360.4	3684.9	3229.4
23°	3610.2	4054.3	4330.2	3559.9	3104.3
24°	3542.7	4090.2	4192.3	3268.2	2773.8
25°	3482.3	4129.0	4074.4	2959.2	2502.1
26°	3414.8	4157.8	3896.2	2674.6	2335.4
27°	3348.6	4175.0	3693.6	2453.3	2148.6
28°	3272.5	4193.7	3473.7	2262.1	2007.7
29°	3200.6	4196.6	3256.7	2109.8	1897.1
30°	3123.0	4182.2	3028.2	1987.6	1828.1
32.5°	2953.4	4103.2	2469.1	1754.8	1655.6
35°	2798.2	3926.4	2069.5	1593.8	1545.0
37.5°	2641.5	3647.6	1789.3	1493.2	1477.4
40°	2487.8	3317.0	1578.0	1412.8	1415.6
42.5°	2325.4	2976.4	1432.9	1346.6	1359.6
45°	2155.8	2641.5	1309.3	1293.5	1320.8
47.5°	1967.5	2335.4	1211.5	1259.0	1300.7
50°	1789.3	2032.2	1135.4	1225.9	1269.0
52.5°	1619.7	1783.5	1066.4	1169.9	1220.2
55°	1435.7	1562.2	983.0	1098.0	1139.7
57.5°	1260.4	1362.5	895.4	1008.9	1046.3
60°	1067.8	1165.6	806.3	912.6	948.5
62.5°	893.9	997.4	730.1	816.3	845.1
65°	740.2	842.2	658.2	731.5	754.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	603.6	712.8	599.3	661.1	682.7
70°	475.7	590.7	547.6	603.6	626.6
72.5°	372.2	488.6	504.5	556.2	579.2
75°	284.6	398.1	464.2	520.3	544.7
77.5°	211.3	324.8	426.8	491.5	517.4
80°	139.4	258.7	393.8	465.6	495.8
82.5°	87.7	208.4	360.7	439.8	471.4
85°	43.1	169.6	329.1	416.8	445.5
87.5°	14.4	140.8	300.4	393.8	418.2
90°	1.4	117.8	274.5	369.4	393.8
92.5°	1.4	102.0	252.9	340.6	365.0
95°	1.4	90.5	231.4	313.3	334.9
97.5°	1.4	81.9	211.3	284.6	307.6
100°	1.4	73.3	189.7	257.3	281.7
102.5°	2.9	67.5	171.0	234.3	260.1
105°	2.9	63.2	152.3	214.1	240.0
107.5°	2.9	60.4	136.5	198.3	222.8
110°	2.9	57.5	125.0	184.0	209.8
112.5°	2.9	56.1	117.8	171.0	195.5
115°	2.9	54.6	112.1	159.5	179.6
117.5°	4.3	53.2	107.8	148.0	163.8
120°	4.3	50.3	104.9	138.0	150.9
122.5°	4.3	47.4	100.6	129.3	139.4
125°	4.3	46.0	96.3	120.7	129.3
127.5°	4.3	43.1	92.0	113.5	122.2
130°	5.7	40.2	87.7	107.8	115.0
132.5°	5.7	37.4	83.4	104.9	110.7
135°	5.7	35.9	79.0	100.6	106.4
137.5°	5.7	33.1	74.7	96.3	102.0
140°	5.7	30.2	69.0	90.5	96.3
142.5°	5.7	28.7	63.2	84.8	90.5
145°	5.7	25.9	56.1	77.6	84.8
147.5°	7.2	24.4	50.3	71.9	77.6
150°	7.2	21.6	44.6	66.1	71.9
152.5°	7.2	18.7	38.8	58.9	64.7
155°	7.2	15.8	34.5	51.7	58.9
157.5°	7.2	14.4	30.2	43.1	51.7
160°	7.2	12.9	25.9	37.4	44.6
162.5°	7.2	11.5	23.0	31.6	38.8
165°	7.2	10.1	18.7	25.9	31.6
167.5°	8.6	10.1	15.8	20.1	25.9
170°	8.6	10.1	12.9	15.8	20.1
172.5°	8.6	8.6	10.1	11.5	12.9
175°	8.6	8.6	8.6	8.6	7.2
177.5°	8.6	8.6	8.6	7.2	7.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	7.2	7.2	7.2	7.2	7.2

(END OF REPORT)