

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: P565951

Luminaire Tested: **4SNX-100HL-LC-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565951
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-L835-CD
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

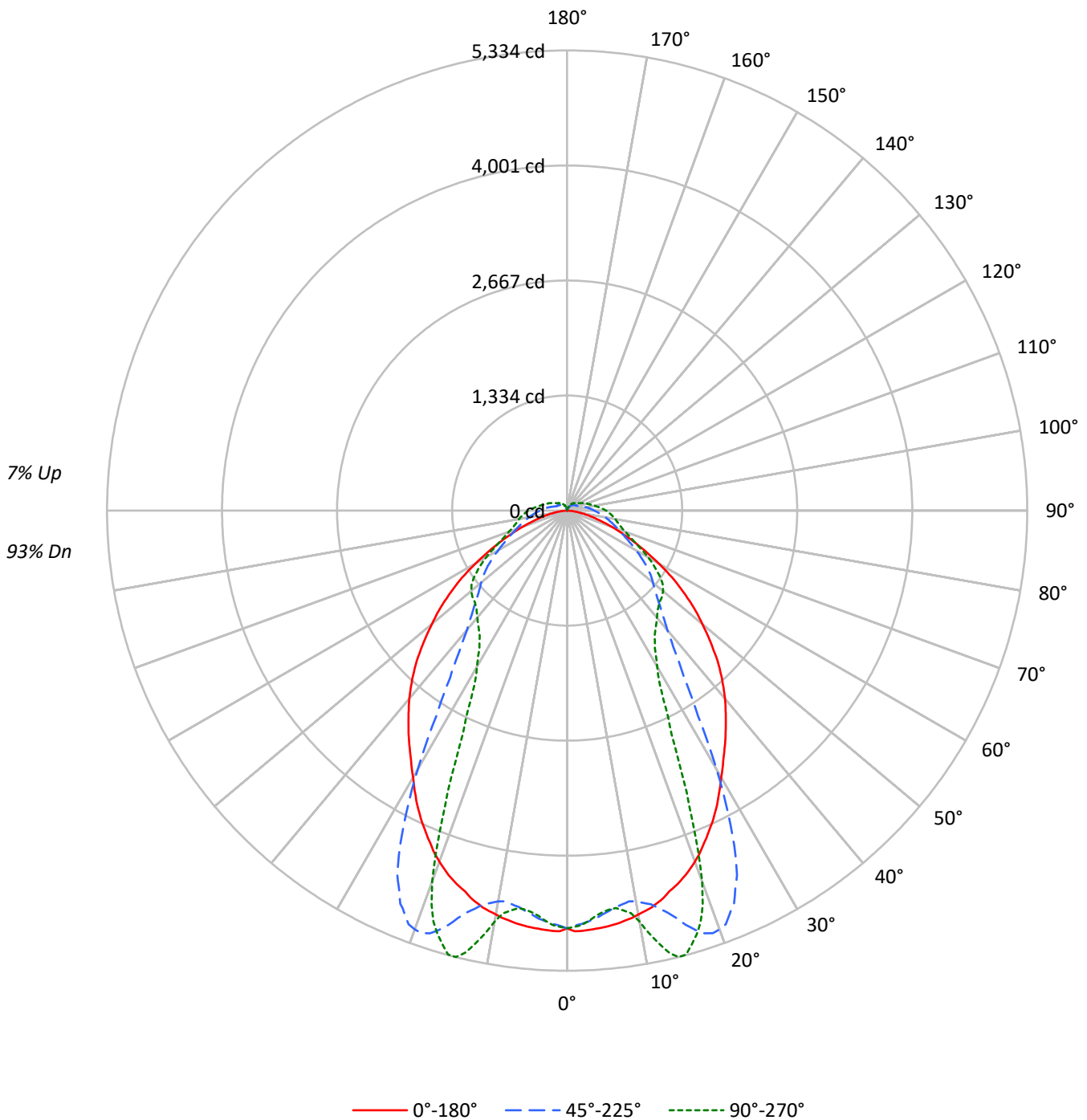
Lumens per Lamp: N/A
Luminaire Lumens: 10765.0 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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	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°	52137	52137	52137
5°	52200	48659	47723
10°	51574	46203	47325
15°	50374	48058	50380
20°	48850	50050	42165
25°	46397	44862	25925
30°	43349	33388	18763
35°	40858	23025	15829
40°	38627	17854	14588
45°	36028	15186	13796
50°	32646	13616	13543
55°	29084	12299	12530
60°	24520	10629	10838
65°	19792	9244	9045
70°	15362	8294	7964
75°	11712	7695	7427
80°	7992	7268	7351
85°	4124	6912	7300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.7	4.2
10°-20°	1377.2	12.8
20°-30°	1854.5	17.2
30°-40°	1755.1	16.3
40°-50°	1549.1	14.4
50°-60°	1258.2	11.7
60°-70°	855.7	7.9
70°-80°	550.6	5.1
80°-90°	366.1	3.4
90°-100°	251.6	2.3
100°-110°	168.9	1.6
110°-120°	119.1	1.1
120°-130°	85.1	0.8
130°-140°	60.1	0.6
140°-150°	37.3	0.3
150°-160°	18.2	0.2
160°-170°	6.4	0.1
170°-180°	1.1	0.0
0°-30°	3682.4	34.2
0°-40°	5437.5	50.5
0°-60°	8244.8	76.6
0°-90°	10017.3	93.1
90°-120°	539.6	5.0
90°-150°	722.1	6.7
90°-180°	748.0	6.9
0°-180°	10765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4844	4844	4844	4844	4844	
5°	4849	4804	4701	4697	4674	460
15°	4571	4541	4891	5324	5329	1289
25°	3982	4722	4660	3384	2862	1828
35°	3200	4490	2367	1823	1767	2003
45°	2465	3021	1497	1479	1510	1893
55°	1642	1787	1124	1256	1303	1466
65°	846	963	753	837	863	850
75°	325	455	531	595	623	354
85°	49	194	376	477	510	65
90°	2	135	314	422	450	3
95°	2	104	265	358	383	1
105°	3	72	174	245	274	3
115°	3	62	128	182	206	4
125°	5	53	110	138	148	5
135°	7	41	90	115	122	5
145°	7	30	64	89	97	4
155°	8	18	39	59	67	4
165°	8	12	21	30	36	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°	4843.7	4843.7	4843.7	4843.7	4843.7
1°	4876.6	4861.8	4812.5	4838.8	4825.6
2°	4874.9	4850.3	4794.4	4824.0	4807.6
3°	4866.7	4840.4	4768.1	4786.2	4761.5
4°	4858.5	4827.3	4740.2	4740.2	4712.2
5°	4848.7	4804.3	4700.7	4697.4	4674.4
6°	4837.1	4786.2	4666.2	4662.9	4649.8
7°	4820.7	4755.0	4628.4	4651.4	4641.6
8°	4801.0	4725.4	4608.7	4666.2	4681.0
9°	4782.9	4689.2	4585.7	4712.2	4723.7
10°	4753.3	4656.3	4600.5	4804.3	4838.8
11°	4728.7	4628.4	4633.3	4894.7	4998.2
12°	4704.0	4598.8	4664.6	5008.1	5134.6
13°	4662.9	4575.8	4733.6	5131.4	5261.2
14°	4626.8	4557.7	4801.0	5256.3	5333.5
15°	4570.9	4541.3	4891.4	5323.7	5328.6
16°	4533.1	4529.8	4996.6	5328.6	5236.5
17°	4490.3	4524.9	5082.0	5243.1	5134.6
18°	4442.7	4534.7	5152.7	5136.3	5011.4
19°	4388.4	4544.6	5182.3	4988.4	4827.3
20°	4329.3	4559.4	5165.9	4833.9	4574.2
21°	4270.1	4579.1	5134.6	4671.1	4242.2
22.5°	4160.0	4626.8	4986.7	4214.2	3693.2
23°	4128.7	4636.6	4952.2	4071.2	3550.2
24°	4051.5	4677.7	4794.4	3737.6	3172.2
25°	3982.5	4722.1	4659.6	3384.2	2861.5
26°	3905.2	4755.0	4455.8	3058.8	2670.9
27°	3829.6	4774.7	4224.1	2805.6	2457.2
28°	3742.5	4796.1	3972.6	2587.0	2296.1
29°	3660.3	4799.3	3724.4	2412.8	2169.6
30°	3571.6	4782.9	3463.1	2273.1	2090.7
32.5°	3377.6	4692.5	2823.7	2006.8	1893.4
35°	3200.1	4490.3	2366.8	1822.8	1766.9
37.5°	3021.0	4171.5	2046.3	1707.7	1689.6
40°	2845.1	3793.5	1804.7	1615.7	1619.0
42.5°	2659.4	3403.9	1638.7	1540.1	1554.9
45°	2465.4	3021.0	1497.3	1479.2	1510.5
47.5°	2250.1	2670.9	1385.6	1439.8	1487.5
50°	2046.3	2324.1	1298.5	1402.0	1451.3
52.5°	1852.3	2039.7	1219.6	1337.9	1395.4
55°	1642.0	1786.6	1124.2	1255.7	1303.4
57.5°	1441.4	1558.1	1024.0	1153.8	1196.5
60°	1221.2	1333.0	922.1	1043.7	1084.8
62.5°	1022.3	1140.7	835.0	933.6	966.4
65°	846.5	963.2	752.8	836.6	862.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	690.3	815.2	685.4	756.1	780.7
70°	544.0	675.5	626.2	690.3	716.6
72.5°	425.7	558.8	576.9	636.1	662.4
75°	325.4	455.3	530.9	595.0	622.9
77.5°	241.6	371.5	488.2	562.1	591.7
80°	159.4	295.8	450.3	532.5	567.0
82.5°	100.3	238.3	412.5	502.9	539.1
85°	49.3	193.9	376.4	476.6	509.5
87.5°	16.4	161.1	343.5	450.3	478.3
90°	1.6	134.8	313.9	422.4	450.3
92.5°	1.6	116.7	289.3	389.5	417.5
95°	1.6	103.5	264.6	358.3	383.0
97.5°	1.6	93.7	241.6	325.4	351.7
100°	1.6	83.8	217.0	294.2	322.1
102.5°	3.3	77.2	195.6	267.9	297.5
105°	3.3	72.3	174.2	244.9	274.5
107.5°	3.3	69.0	156.1	226.8	254.8
110°	3.3	65.7	143.0	210.4	240.0
112.5°	3.3	64.1	134.8	195.6	223.5
115°	3.3	62.5	128.2	182.4	205.5
117.5°	4.9	60.8	123.3	169.3	187.4
120°	4.9	57.5	120.0	157.8	172.6
122.5°	4.9	54.2	115.1	147.9	159.4
125°	4.9	52.6	110.1	138.1	147.9
127.5°	4.9	49.3	105.2	129.8	139.7
130°	6.6	46.0	100.3	123.3	131.5
132.5°	6.6	42.7	95.3	120.0	126.6
135°	6.6	41.1	90.4	115.1	121.6
137.5°	6.6	37.8	85.5	110.1	116.7
140°	6.6	34.5	78.9	103.5	110.1
142.5°	6.6	32.9	72.3	97.0	103.5
145°	6.6	29.6	64.1	88.8	97.0
147.5°	8.2	27.9	57.5	82.2	88.8
150°	8.2	24.7	51.0	75.6	82.2
152.5°	8.2	21.4	44.4	67.4	74.0
155°	8.2	18.1	39.4	59.2	67.4
157.5°	8.2	16.4	34.5	49.3	59.2
160°	8.2	14.8	29.6	42.7	51.0
162.5°	8.2	13.1	26.3	36.2	44.4
165°	8.2	11.5	21.4	29.6	36.2
167.5°	9.9	11.5	18.1	23.0	29.6
170°	9.9	11.5	14.8	18.1	23.0
172.5°	9.9	9.9	11.5	13.1	14.8
175°	9.9	9.9	9.9	9.9	8.2
177.5°	9.9	9.9	9.9	8.2	8.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	8.2	8.2	8.2	8.2	8.2

(END OF REPORT)