

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: P#

Luminaire Tested: **8SNLED-LD5-120SL-SLN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27402)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-120SL-SLN-UNV-L830-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

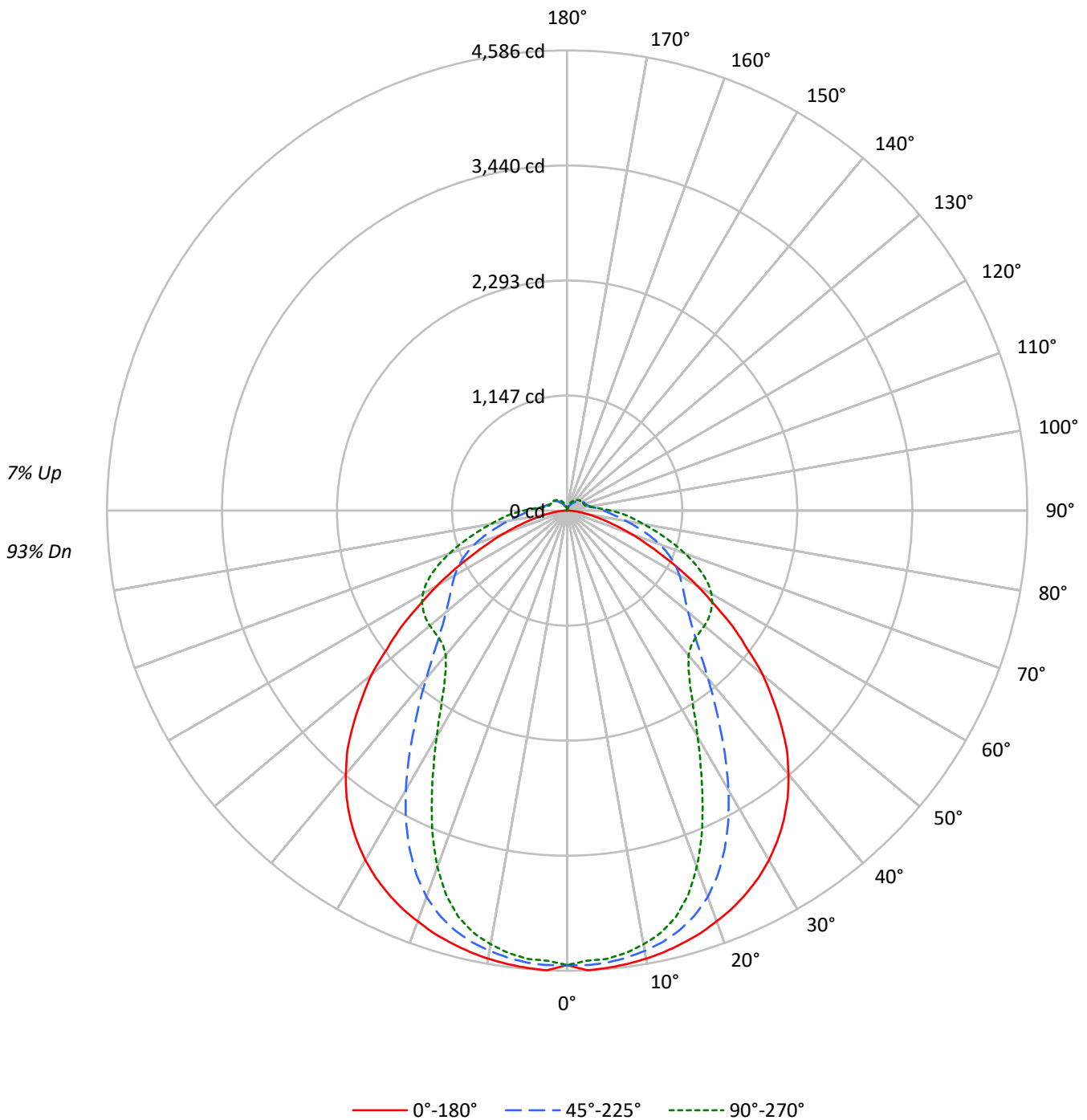
Lumens per Lamp: N/A  
Luminaire Lumens: 11389.0 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 92  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	18298	18298	18298
5°	18535	17911	17614
10°	18554	17432	16889
15°	18586	16863	15926
20°	18622	16008	14303
25°	18659	14682	12112
30°	18601	12931	9962
35°	18371	11013	8349
40°	17870	9336	7547
45°	16964	8123	7490
50°	15716	7435	7753
55°	13887	7157	8024
60°	11769	7066	8135
65°	9522	6922	7881
70°	7714	6580	7268
75°	5893	5973	6450
80°	4459	5386	5737
85°	3174	5110	5278



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.5	3.8
10°-20°	1211.0	10.6
20°-30°	1692.9	14.9
30°-40°	1756.0	15.4
40°-50°	1622.2	14.2
50°-60°	1448.3	12.7
60°-70°	1173.8	10.3
70°-80°	780.7	6.9
80°-90°	447.1	3.9
90°-100°	247.3	2.2
100°-110°	167.5	1.5
110°-120°	139.5	1.2
120°-130°	113.4	1.0
130°-140°	81.8	0.7
140°-150°	49.3	0.4
150°-160°	23.7	0.2
160°-170°	6.1	0.1
170°-180°	0.0	0.0
0°-30°	3332.4	29.3
0°-40°	5088.3	44.7
0°-60°	8158.9	71.6
0°-90°	10560.4	92.7
90°-120°	554.3	4.9
90°-150°	798.8	7.0
90°-180°	829.0	7.3
0°-180°	11389.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4529	4529	4529	4529	4529	
5°	4576	4499	4523	4491	4485	435
15°	4462	4367	4330	4232	4190	1261
25°	4216	4029	3718	3328	3192	1943
35°	3765	3352	2665	2238	2137	2349
45°	3015	2389	1815	1750	1803	2318
55°	2015	1523	1417	1647	1750	1792
65°	1029	921	1153	1413	1488	1040
75°	400	500	777	953	992	438
85°	81	232	459	586	602	93
90°	4	163	362	437	433	6
95°	4	138	287	307	297	3
105°	2	120	207	201	191	2
115°	2	108	183	181	175	2
125°	2	92	161	169	165	2
135°	4	69	128	150	150	3
145°	4	43	89	116	124	2
155°	4	28	55	73	89	2
165°	4	16	28	35	47	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4528.7	4528.7	4528.7	4528.7	4528.7
2.5°	4585.8	4511.0	4534.6	4514.9	4489.4
5°	4576.0	4499.2	4522.8	4491.3	4485.4
7.5°	4558.2	4481.5	4495.3	4457.9	4448.0
10°	4534.6	4453.9	4455.9	4402.8	4389.0
12.5°	4503.1	4414.6	4402.8	4329.9	4310.3
15°	4461.8	4367.3	4329.9	4231.5	4190.2
17.5°	4416.5	4306.3	4229.6	4078.0	4013.1
20°	4355.5	4231.5	4097.7	3867.4	3780.8
22.5°	4294.5	4141.0	3926.5	3619.4	3503.3
25°	4215.8	4028.8	3717.8	3328.1	3192.3
27.5°	4127.2	3896.9	3477.7	3029.0	2883.3
30°	4022.9	3737.5	3214.0	2735.7	2598.0
32.5°	3900.9	3558.4	2936.5	2472.0	2344.1
35°	3765.1	3351.8	2664.9	2237.8	2137.4
37.5°	3609.6	3125.4	2413.0	2048.8	1983.9
40°	3432.5	2879.4	2180.7	1903.2	1881.6
42.5°	3241.5	2639.3	1981.9	1808.7	1828.4
45°	3015.2	2389.3	1814.6	1749.7	1802.8
47.5°	2777.1	2145.3	1678.8	1716.2	1793.0
50°	2546.8	1919.0	1572.6	1694.6	1785.1
52.5°	2261.4	1716.2	1487.9	1674.9	1773.3
55°	2015.4	1523.4	1417.1	1647.3	1749.7
57.5°	1732.0	1350.2	1354.1	1611.9	1714.3
60°	1495.8	1192.7	1293.1	1562.7	1661.1
62.5°	1255.7	1051.0	1226.2	1497.8	1586.3
65°	1029.3	921.1	1153.3	1413.1	1487.9
67.5°	840.4	803.0	1070.7	1310.8	1373.8
70°	681.0	694.8	980.1	1196.6	1249.8
72.5°	523.5	594.4	881.7	1074.6	1119.9
75°	399.5	499.9	777.4	952.6	991.9
77.5°	295.2	417.2	682.9	842.4	875.8
80°	208.6	344.4	594.4	745.9	771.5
82.5°	139.7	283.4	521.6	659.3	682.9
85°	80.7	232.2	458.6	586.5	602.3
87.5°	33.5	192.9	407.4	511.7	519.6
90°	3.9	163.4	362.1	436.9	433.0
92.5°	3.9	147.6	322.8	366.1	356.2
95°	3.9	137.8	287.4	307.0	297.2
97.5°	3.9	131.9	255.9	263.7	253.9
100°	2.0	127.9	234.2	234.2	224.4
102.5°	2.0	124.0	218.5	212.6	204.7
105°	2.0	120.1	206.7	200.8	190.9
107.5°	2.0	118.1	198.8	192.9	183.0
110°	2.0	114.2	192.9	187.0	179.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	112.2	188.9	185.0	175.2
115°	2.0	108.2	183.0	181.1	175.2
117.5°	2.0	104.3	179.1	179.1	173.2
120°	2.0	100.4	173.2	177.1	171.2
122.5°	2.0	96.4	167.3	173.2	167.3
125°	2.0	92.5	161.4	169.3	165.3
127.5°	3.9	86.6	153.5	165.3	161.4
130°	2.0	80.7	145.6	161.4	159.4
132.5°	3.9	74.8	137.8	155.5	155.5
135°	3.9	68.9	127.9	149.6	149.6
137.5°	3.9	61.0	118.1	141.7	143.7
140°	3.9	55.1	108.2	133.8	137.8
142.5°	3.9	49.2	98.4	126.0	131.9
145°	3.9	43.3	88.6	116.1	124.0
147.5°	3.9	39.4	78.7	104.3	116.1
150°	3.9	33.5	70.9	94.5	106.3
152.5°	3.9	29.5	63.0	84.6	98.4
155°	3.9	27.6	55.1	72.8	88.6
157.5°	3.9	23.6	47.2	63.0	78.7
160°	3.9	19.7	39.4	55.1	66.9
162.5°	3.9	17.7	33.5	45.3	59.0
165°	3.9	15.7	27.6	35.4	47.2
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)