

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-LD5-83SL-SLN-UNV-L935-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-LD5-83SL-SLN-UNV-L935-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

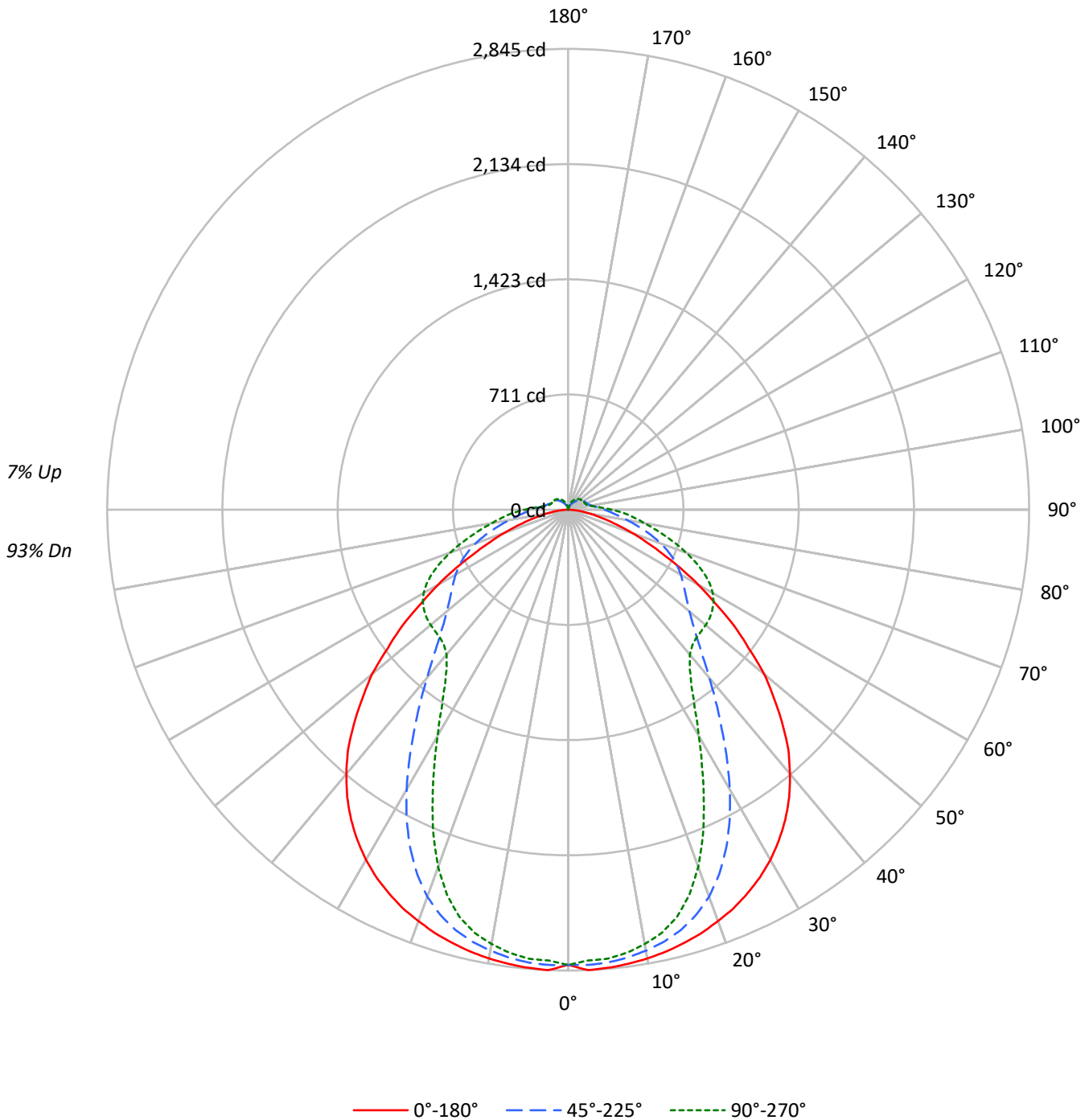
Lumens per Lamp: N/A  
Luminaire Lumens: 7066.0 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 61  
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	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°	11353	11353	11353
5°	11499	11113	10928
10°	11511	10815	10478
15°	11531	10462	9881
20°	11554	9932	8874
25°	11577	9109	7515
30°	11541	8023	6181
35°	11397	6833	5180
40°	11087	5793	4683
45°	10525	5040	4647
50°	9751	4613	4810
55°	8616	4440	4978
60°	7302	4384	5047
65°	5907	4295	4889
70°	4786	4083	4510
75°	3657	3706	4001
80°	2766	3342	3560
85°	1971	3170	3275



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.8	3.8
10°-20°	751.3	10.6
20°-30°	1050.3	14.9
30°-40°	1089.4	15.4
40°-50°	1006.5	14.2
50°-60°	898.6	12.7
60°-70°	728.2	10.3
70°-80°	484.4	6.9
80°-90°	277.4	3.9
90°-100°	153.4	2.2
100°-110°	103.9	1.5
110°-120°	86.5	1.2
120°-130°	70.3	1.0
130°-140°	50.7	0.7
140°-150°	30.6	0.4
150°-160°	14.7	0.2
160°-170°	3.8	0.1
170°-180°	0.0	0.0
0°-30°	2067.5	29.3
0°-40°	3156.9	44.7
0°-60°	5062.0	71.6
0°-90°	6552.0	92.7
90°-120°	343.9	4.9
90°-150°	495.5	7.0
90°-180°	514.0	7.3
0°-180°	7066.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2810	2810	2810	2810	2810	
5°	2839	2791	2806	2786	2783	270
15°	2768	2710	2686	2625	2600	782
25°	2616	2500	2307	2065	1981	1205
35°	2336	2080	1653	1388	1326	1457
45°	1871	1482	1126	1086	1118	1438
55°	1250	945	879	1022	1086	1112
65°	639	572	716	877	923	646
75°	248	310	482	591	615	272
85°	50	144	284	364	374	58
90°	2	101	225	271	269	4
95°	2	86	178	190	184	2
105°	1	74	128	125	118	1
115°	1	67	114	112	109	1
125°	1	57	100	105	103	1
135°	2	43	79	93	93	2
145°	2	27	55	72	77	2
155°	2	17	34	45	55	1
165°	2	10	17	22	29	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2809.7	2809.7	2809.7	2809.7	2809.7
2.5°	2845.1	2798.7	2813.4	2801.2	2785.3
5°	2839.0	2791.4	2806.1	2786.5	2782.9
7.5°	2828.0	2780.4	2789.0	2765.8	2759.7
10°	2813.4	2763.3	2764.5	2731.6	2723.0
12.5°	2793.9	2738.9	2731.6	2686.4	2674.2
15°	2768.2	2709.6	2686.4	2625.3	2599.7
17.5°	2740.1	2671.7	2624.1	2530.1	2489.8
20°	2702.3	2625.3	2542.3	2399.4	2345.7
22.5°	2664.4	2569.2	2436.1	2245.6	2173.5
25°	2615.6	2499.6	2306.6	2064.9	1980.6
27.5°	2560.6	2417.8	2157.7	1879.3	1788.9
30°	2495.9	2318.8	1994.0	1697.3	1611.8
32.5°	2420.2	2207.7	1821.9	1533.7	1454.3
35°	2335.9	2079.5	1653.4	1388.4	1326.1
37.5°	2239.5	1939.1	1497.1	1271.2	1230.9
40°	2129.6	1786.5	1353.0	1180.8	1167.4
42.5°	2011.1	1637.5	1229.6	1122.2	1134.4
45°	1870.7	1482.4	1125.8	1085.5	1118.5
47.5°	1723.0	1331.0	1041.6	1064.8	1112.4
50°	1580.1	1190.6	975.6	1051.4	1107.5
52.5°	1403.0	1064.8	923.1	1039.1	1100.2
55°	1250.4	945.1	879.2	1022.1	1085.5
57.5°	1074.6	837.7	840.1	1000.1	1063.6
60°	928.0	740.0	802.3	969.5	1030.6
62.5°	779.1	652.1	760.7	929.2	984.2
65°	638.6	571.5	715.6	876.7	923.1
67.5°	521.4	498.2	664.3	813.2	852.3
70°	422.5	431.0	608.1	742.4	775.4
72.5°	324.8	368.8	547.0	666.7	694.8
75°	247.9	310.2	482.3	591.0	615.4
77.5°	183.2	258.9	423.7	522.6	543.4
80°	129.4	213.7	368.8	462.8	478.7
82.5°	86.7	175.8	323.6	409.1	423.7
85°	50.1	144.1	284.5	363.9	373.7
87.5°	20.8	119.7	252.8	317.5	322.4
90°	2.4	101.4	224.7	271.1	268.6
92.5°	2.4	91.6	200.3	227.1	221.0
95°	2.4	85.5	178.3	190.5	184.4
97.5°	2.4	81.8	158.7	163.6	157.5
100°	1.2	79.4	145.3	145.3	139.2
102.5°	1.2	76.9	135.5	131.9	127.0
105°	1.2	74.5	128.2	124.6	118.4
107.5°	1.2	73.3	123.3	119.7	113.6
110°	1.2	70.8	119.7	116.0	111.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	69.6	117.2	114.8	108.7
115°	1.2	67.2	113.6	112.3	108.7
117.5°	1.2	64.7	111.1	111.1	107.5
120°	1.2	62.3	107.5	109.9	106.2
122.5°	1.2	59.8	103.8	107.5	103.8
125°	1.2	57.4	100.1	105.0	102.6
127.5°	2.4	53.7	95.2	102.6	100.1
130°	1.2	50.1	90.4	100.1	98.9
132.5°	2.4	46.4	85.5	96.5	96.5
135°	2.4	42.7	79.4	92.8	92.8
137.5°	2.4	37.9	73.3	87.9	89.1
140°	2.4	34.2	67.2	83.0	85.5
142.5°	2.4	30.5	61.1	78.1	81.8
145°	2.4	26.9	54.9	72.0	76.9
147.5°	2.4	24.4	48.8	64.7	72.0
150°	2.4	20.8	44.0	58.6	65.9
152.5°	2.4	18.3	39.1	52.5	61.1
155°	2.4	17.1	34.2	45.2	54.9
157.5°	2.4	14.7	29.3	39.1	48.8
160°	2.4	12.2	24.4	34.2	41.5
162.5°	2.4	11.0	20.8	28.1	36.6
165°	2.4	9.8	17.1	22.0	29.3
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)