

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-SLC-UNV-L930-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 (P27404)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-83SL-SLC-UNV-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

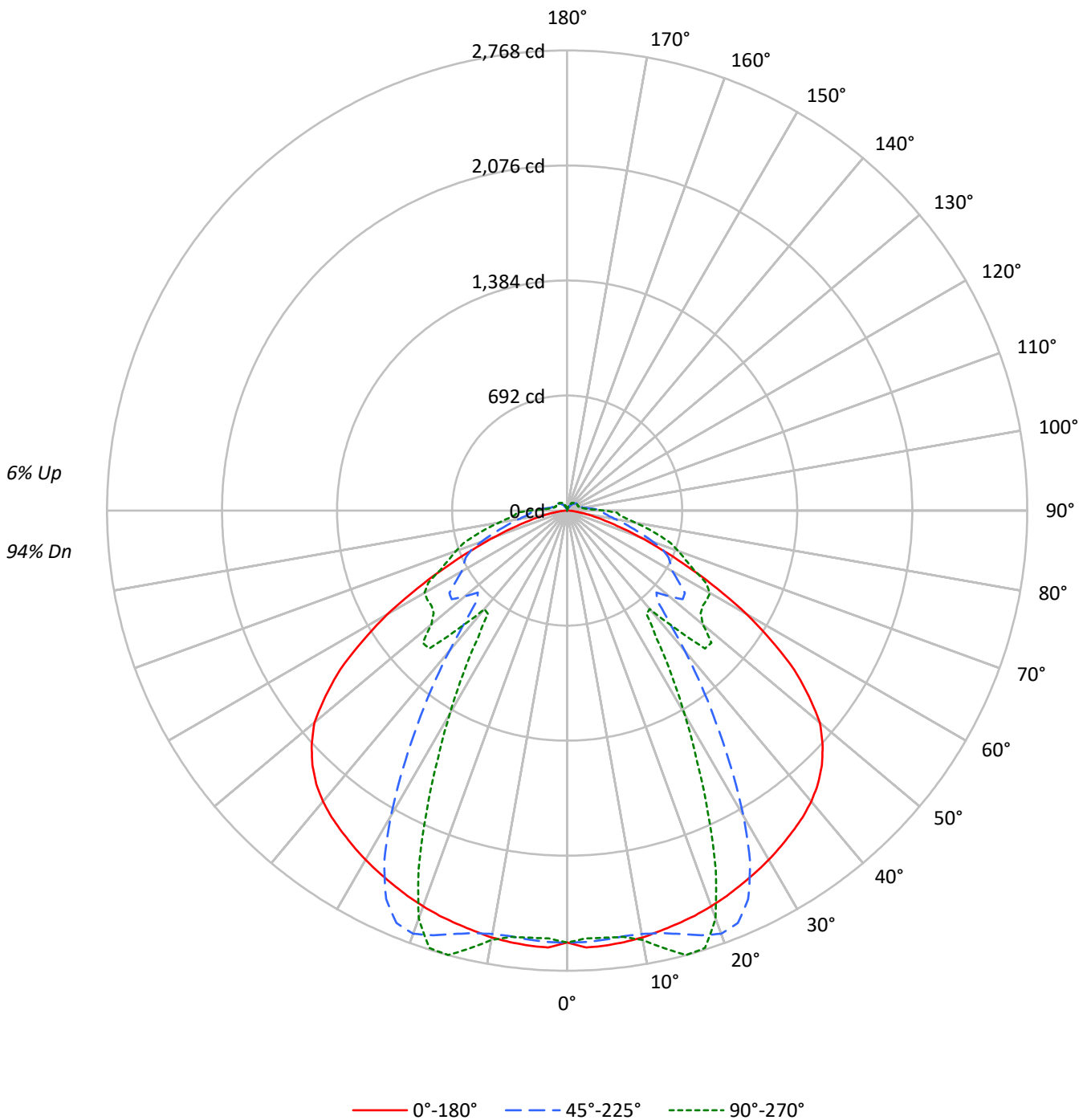
Lumens per Lamp: N/A  
Luminaire Lumens: 6675.1 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	10499	10499	10499
5°	10642	10263	10128
10°	10670	10116	10093
15°	10714	10268	10519
20°	10829	10583	9874
25°	10982	10180	7603
30°	11217	8534	5408
35°	11517	6469	3662
40°	11894	4708	3101
45°	12193	3419	4875
50°	12245	3791	4626
55°	11485	4369	4569
60°	9829	4004	4856
65°	7438	4046	4442
70°	5264	3691	4134
75°	3496	3103	3710
80°	2287	2668	3088
85°	1314	2551	2772



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.2	3.7
10°-20°	746.6	11.2
20°-30°	1084.5	16.2
30°-40°	1036.2	15.5
40°-50°	947.8	14.2
50°-60°	875.2	13.1
60°-70°	695.2	10.4
70°-80°	429.1	6.4
80°-90°	233.6	3.5
90°-100°	118.1	1.8
100°-110°	74.2	1.1
110°-120°	62.9	0.9
120°-130°	51.3	0.8
130°-140°	36.8	0.6
140°-150°	22.7	0.3
150°-160°	10.8	0.2
160°-170°	2.8	0.0
170°-180°	0.0	0.0
0°-30°	2078.3	31.1
0°-40°	3114.5	46.7
0°-60°	4937.5	74.0
0°-90°	6295.4	94.3
90°-120°	255.2	3.8
90°-150°	366.1	5.5
90°-180°	380.0	5.7
0°-180°	6675.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2598	2598	2598	2598	2598	
5°	2627	2587	2592	2578	2579	250
15°	2572	2538	2636	2734	2768	728
25°	2481	2530	2578	2182	2004	1147
35°	2360	2322	1566	1078	938	1480
45°	2167	1512	764	974	1173	1666
55°	1667	775	865	931	996	1468
65°	804	503	674	819	839	813
75°	237	268	404	535	570	269
85°	33	114	229	312	316	43
90°	1	85	205	243	224	2
95°	0	79	142	125	118	0
105°	0	71	87	79	78	0
115°	0	59	84	75	71	1
125°	1	47	75	72	69	1
135°	1	33	60	66	63	1
145°	1	21	41	53	56	1
155°	2	13	25	33	40	1
165°	2	7	13	16	22	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°	2598.5	2598.5	2598.5	2598.5	2598.5
2.5°	2630.7	2592.8	2597.4	2589.3	2575.5
5°	2627.3	2587.0	2591.6	2577.8	2579.0
7.5°	2618.1	2576.7	2582.4	2580.1	2585.9
10°	2607.7	2564.0	2585.9	2605.4	2622.7
12.5°	2589.3	2550.2	2603.1	2660.6	2696.3
15°	2572.1	2537.5	2636.5	2734.2	2767.6
17.5°	2554.8	2532.9	2677.9	2763.0	2758.4
20°	2532.9	2530.6	2708.9	2680.2	2610.0
22.5°	2508.8	2531.8	2684.8	2474.3	2336.2
25°	2481.2	2529.5	2577.8	2182.1	2003.8
27.5°	2453.6	2519.1	2383.4	1862.3	1686.3
30°	2426.0	2491.5	2121.1	1570.2	1410.3
32.5°	2393.8	2431.7	1835.9	1311.3	1164.1
35°	2360.4	2322.4	1565.5	1077.8	937.5
37.5°	2325.9	2164.9	1322.8	873.1	783.4
40°	2284.5	1967.0	1099.7	748.8	773.0
42.5°	2232.7	1743.8	903.0	785.7	953.6
45°	2167.2	1511.5	763.8	974.3	1173.3
47.5°	2084.3	1288.3	729.3	1115.8	1177.9
50°	1984.3	1083.6	801.8	1069.8	1065.2
52.5°	1832.4	913.3	875.4	975.4	1012.3
55°	1666.8	775.3	865.0	930.6	996.2
57.5°	1457.4	682.1	793.7	921.4	997.3
60°	1249.2	620.0	732.7	920.2	991.6
62.5°	1019.2	563.6	701.7	898.4	940.9
65°	804.1	502.7	674.1	819.0	838.6
67.5°	616.6	440.6	625.8	730.4	769.5
70°	464.7	379.6	549.8	662.6	710.9
72.5°	334.7	322.1	471.6	602.8	653.4
75°	237.0	268.0	403.8	534.9	570.5
77.5°	163.3	218.6	346.2	460.1	488.9
80°	107.0	174.8	294.5	395.7	415.3
82.5°	64.4	140.3	255.4	346.2	356.6
85°	33.4	113.9	228.9	311.7	316.3
87.5°	10.4	95.5	214.0	295.6	301.4
90°	1.2	85.1	204.8	242.7	224.3
92.5°	0.0	80.5	177.1	165.6	148.4
95°	0.0	79.4	141.5	125.4	118.5
97.5°	0.0	77.1	116.2	104.7	101.2
100°	0.0	74.8	100.1	92.0	90.9
102.5°	0.0	73.6	90.9	84.0	82.8
105°	0.0	71.3	87.4	79.4	78.2
107.5°	0.0	67.9	85.1	77.1	74.8
110°	0.0	64.4	85.1	75.9	72.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	61.0	85.1	74.8	71.3
115°	0.0	58.7	84.0	74.8	71.3
117.5°	1.2	56.4	82.8	74.8	71.3
120°	0.0	54.1	80.5	74.8	70.2
122.5°	1.2	50.6	78.2	73.6	70.2
125°	1.2	47.2	74.8	72.5	69.0
127.5°	1.2	43.7	71.3	70.2	66.7
130°	1.2	40.3	67.9	69.0	65.6
132.5°	1.2	36.8	63.3	66.7	64.4
135°	1.2	33.4	59.8	65.6	63.3
137.5°	1.2	29.9	55.2	62.1	62.1
140°	1.2	26.5	50.6	59.8	61.0
142.5°	1.2	24.2	46.0	57.5	58.7
145°	1.2	20.7	41.4	52.9	56.4
147.5°	1.2	18.4	36.8	48.3	52.9
150°	1.2	16.1	32.2	43.7	48.3
152.5°	1.2	13.8	28.8	38.0	44.9
155°	2.3	12.7	25.3	33.4	40.3
157.5°	2.3	10.4	20.7	28.8	34.5
160°	2.3	9.2	18.4	24.2	31.1
162.5°	2.3	8.1	15.0	20.7	26.5
165°	2.3	6.9	12.7	16.1	21.9
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)