

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-L940-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-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

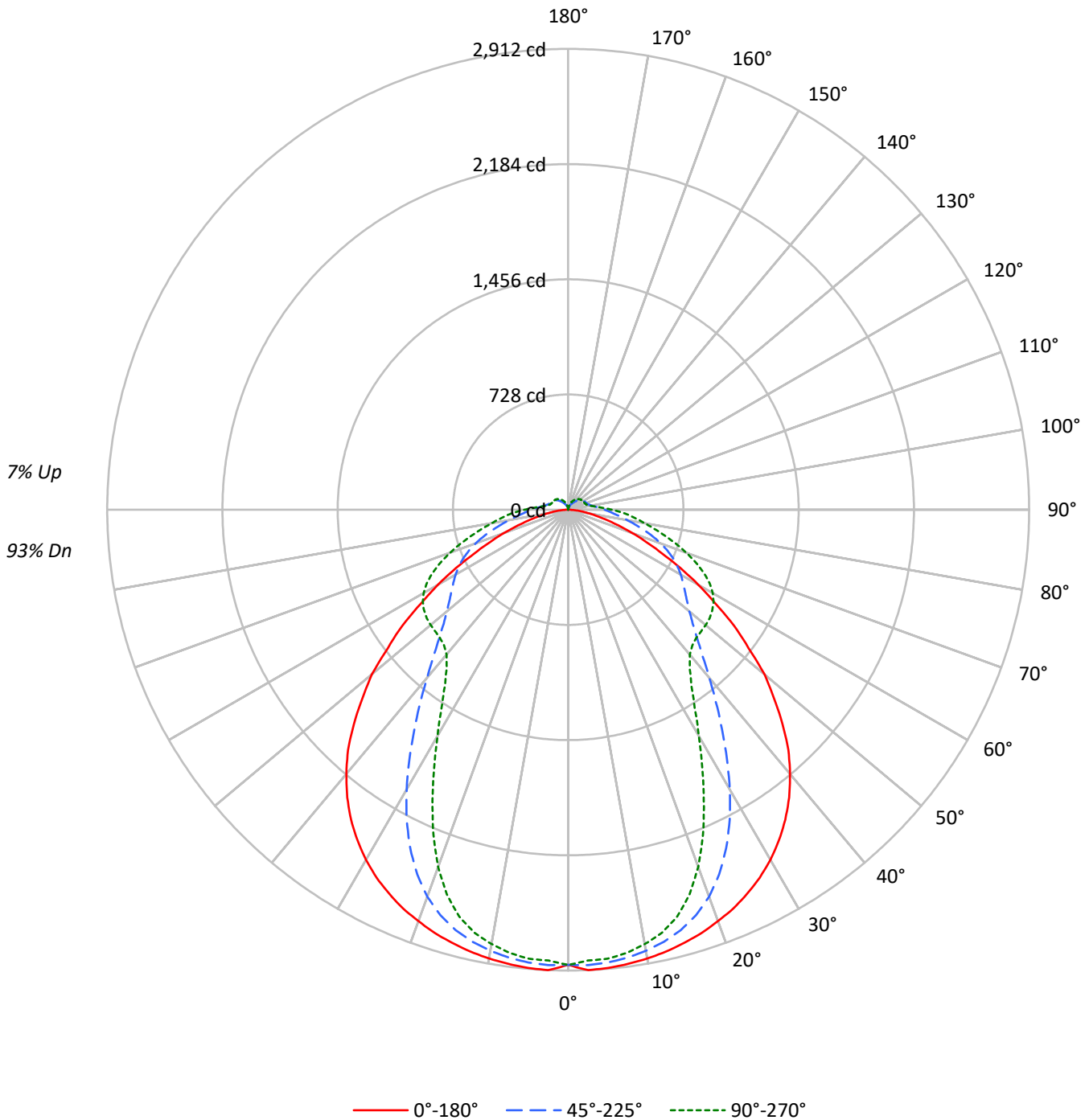
Lumens per Lamp: N/A  
Luminaire Lumens: 7232.9 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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°	11621	11621	11621
5°	11771	11375	11186
10°	11783	11071	10726
15°	11804	10710	10114
20°	11826	10167	9083
25°	11850	9325	7692
30°	11814	8212	6327
35°	11667	6994	5302
40°	11349	5929	4793
45°	10774	5159	4757
50°	9981	4722	4924
55°	8819	4545	5096
60°	7475	4487	5166
65°	6047	4396	5005
70°	4899	4179	4616
75°	3742	3793	4096
80°	2832	3420	3644
85°	2014	3245	3352



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.1	3.8
10°-20°	769.1	10.6
20°-30°	1075.1	14.9
30°-40°	1115.2	15.4
40°-50°	1030.3	14.2
50°-60°	919.8	12.7
60°-70°	745.5	10.3
70°-80°	495.8	6.9
80°-90°	283.9	3.9
90°-100°	157.1	2.2
100°-110°	106.3	1.5
110°-120°	88.5	1.2
120°-130°	72.0	1.0
130°-140°	51.9	0.7
140°-150°	31.3	0.4
150°-160°	15.0	0.2
160°-170°	3.9	0.1
170°-180°	0.0	0.0
0°-30°	2116.3	29.3
0°-40°	3231.5	44.7
0°-60°	5181.6	71.6
0°-90°	6706.8	92.7
90°-120°	351.9	4.9
90°-150°	507.2	7.0
90°-180°	526.0	7.3
0°-180°	7232.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2876	2876	2876	2876	2876	
5°	2906	2857	2872	2852	2849	276
15°	2834	2774	2750	2687	2661	801
25°	2677	2559	2361	2114	2027	1234
35°	2391	2129	1692	1421	1357	1492
45°	1915	1517	1152	1111	1145	1472
55°	1280	968	900	1046	1111	1138
65°	654	585	732	898	945	661
75°	254	318	494	605	630	278
85°	51	148	291	372	382	59
90°	2	104	230	278	275	4
95°	2	88	182	195	189	2
105°	1	76	131	128	121	1
115°	1	69	116	115	111	1
125°	1	59	102	108	105	1
135°	2	44	81	95	95	2
145°	2	28	56	74	79	2
155°	2	18	35	46	56	1
165°	2	10	18	22	30	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2876.1	2876.1	2876.1	2876.1	2876.1
2.5°	2912.4	2864.9	2879.9	2867.4	2851.1
5°	2906.1	2857.4	2872.4	2852.4	2848.6
7.5°	2894.9	2846.1	2854.9	2831.1	2824.9
10°	2879.9	2828.6	2829.9	2796.1	2787.4
12.5°	2859.9	2803.6	2796.1	2749.9	2737.4
15°	2833.6	2773.6	2749.9	2687.4	2661.1
17.5°	2804.9	2734.9	2686.1	2589.9	2548.6
20°	2766.1	2687.4	2602.4	2456.1	2401.1
22.5°	2727.4	2629.9	2493.6	2298.7	2224.9
25°	2677.4	2558.6	2361.2	2113.7	2027.4
27.5°	2621.1	2474.9	2208.7	1923.7	1831.2
30°	2554.9	2373.7	2041.2	1737.4	1649.9
32.5°	2477.4	2259.9	1864.9	1569.9	1488.7
35°	2391.2	2128.7	1692.4	1421.2	1357.4
37.5°	2292.4	1984.9	1532.4	1301.2	1259.9
40°	2179.9	1828.7	1384.9	1208.7	1195.0
42.5°	2058.7	1676.2	1258.7	1148.7	1161.2
45°	1914.9	1517.4	1152.5	1111.2	1145.0
47.5°	1763.7	1362.4	1066.2	1090.0	1138.7
50°	1617.4	1218.7	998.7	1076.2	1133.7
52.5°	1436.2	1090.0	945.0	1063.7	1126.2
55°	1279.9	967.5	900.0	1046.2	1111.2
57.5°	1100.0	857.5	860.0	1023.7	1088.7
60°	950.0	757.5	821.2	992.5	1055.0
62.5°	797.5	667.5	778.7	951.2	1007.5
65°	653.7	585.0	732.5	897.5	945.0
67.5°	533.7	510.0	680.0	832.5	872.5
70°	432.5	441.2	622.5	760.0	793.7
72.5°	332.5	377.5	560.0	682.5	711.2
75°	253.7	317.5	493.7	605.0	630.0
77.5°	187.5	265.0	433.7	535.0	556.2
80°	132.5	218.7	377.5	473.7	490.0
82.5°	88.7	180.0	331.2	418.7	433.7
85°	51.2	147.5	291.2	372.5	382.5
87.5°	21.2	122.5	258.7	325.0	330.0
90°	2.5	103.7	230.0	277.5	275.0
92.5°	2.5	93.7	205.0	232.5	226.2
95°	2.5	87.5	182.5	195.0	188.7
97.5°	2.5	83.7	162.5	167.5	161.2
100°	1.2	81.2	148.7	148.7	142.5
102.5°	1.2	78.7	138.7	135.0	130.0
105°	1.2	76.2	131.2	127.5	121.2
107.5°	1.2	75.0	126.2	122.5	116.2
110°	1.2	72.5	122.5	118.7	113.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	71.2	120.0	117.5	111.2
115°	1.2	68.7	116.2	115.0	111.2
117.5°	1.2	66.2	113.7	113.7	110.0
120°	1.2	63.7	110.0	112.5	108.7
122.5°	1.2	61.2	106.2	110.0	106.2
125°	1.2	58.7	102.5	107.5	105.0
127.5°	2.5	55.0	97.5	105.0	102.5
130°	1.2	51.2	92.5	102.5	101.2
132.5°	2.5	47.5	87.5	98.7	98.7
135°	2.5	43.7	81.2	95.0	95.0
137.5°	2.5	38.7	75.0	90.0	91.2
140°	2.5	35.0	68.7	85.0	87.5
142.5°	2.5	31.2	62.5	80.0	83.7
145°	2.5	27.5	56.2	73.7	78.7
147.5°	2.5	25.0	50.0	66.2	73.7
150°	2.5	21.2	45.0	60.0	67.5
152.5°	2.5	18.7	40.0	53.7	62.5
155°	2.5	17.5	35.0	46.2	56.2
157.5°	2.5	15.0	30.0	40.0	50.0
160°	2.5	12.5	25.0	35.0	42.5
162.5°	2.5	11.2	21.2	28.7	37.5
165°	2.5	10.0	17.5	22.5	30.0
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)