

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: **8SRL-LD5-82SL-LN-UNV-L840-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 (P35658)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SRL-LD5-82SL-LN-UNV-L840-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

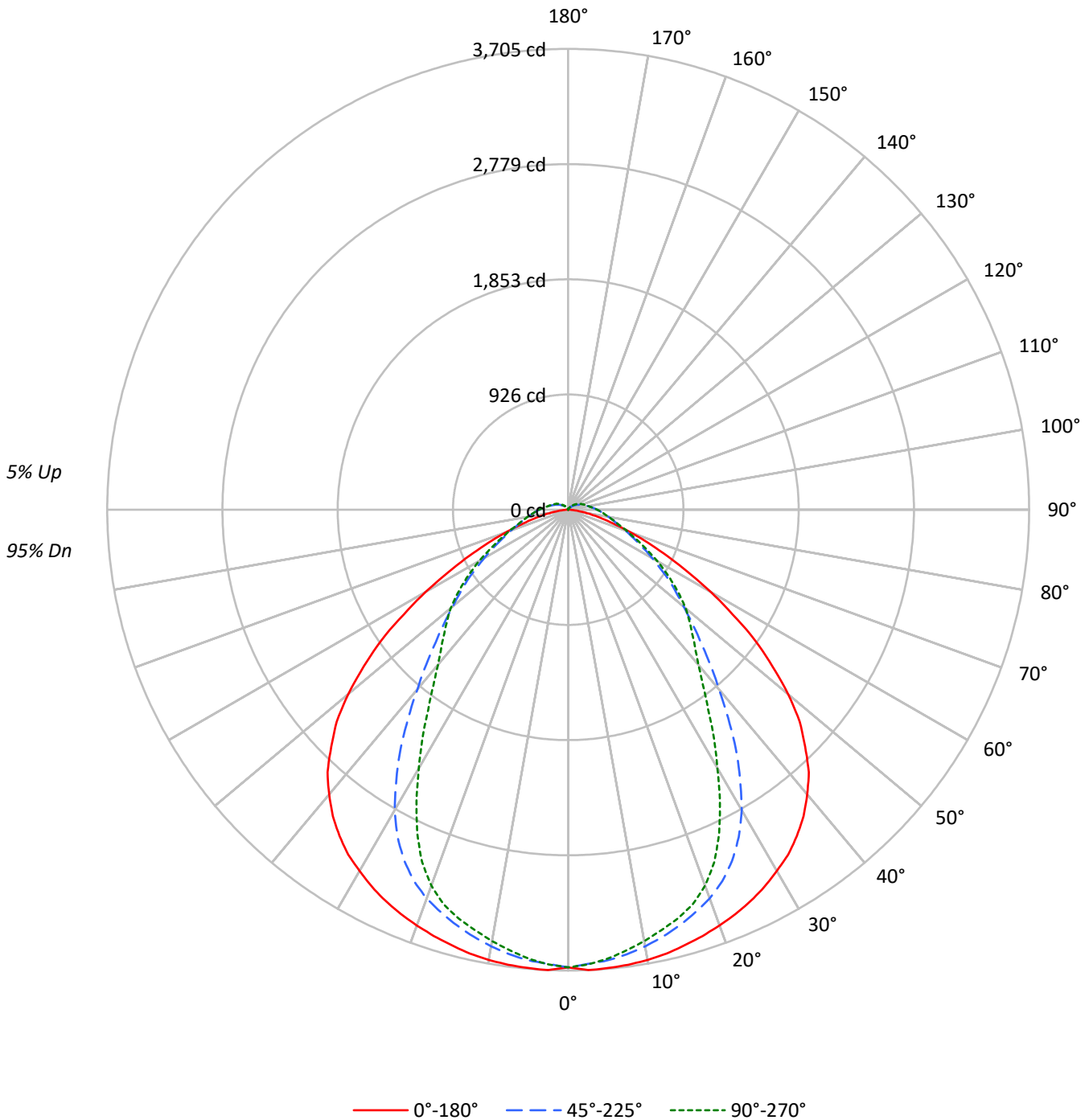
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8412.0 lumens  
Efficiency: N/A  
Efficacy: 142.1 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.04 / 1.14  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 7.33' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 59.2  
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	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	103	103	103	97	97	97	95				
1	108	104	100	96	105	101	97	94	96	93	90	91	89	86	87	85	83	80				
2	99	92	85	80	96	89	83	79	85	80	76	81	77	74	77	74	71	69				
3	91	82	74	68	88	80	73	67	76	70	65	73	68	63	69	65	62	59				
4	84	73	65	59	82	71	64	58	68	62	57	65	60	55	63	58	54	52				
5	78	66	58	51	76	65	57	51	62	55	50	59	54	49	57	52	48	46				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	44	52	47	43	41				
7	67	55	46	41	65	54	46	40	52	45	40	50	44	39	48	43	38	37				
8	63	50	42	37	61	49	42	36	48	41	36	46	40	35	44	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	33	43	37	32	41	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				

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

	0°	45°	90°
0°	21601	21601	21601
5°	21760	20559	20183
10°	21826	19565	18788
15°	21896	18599	17549
20°	22039	17649	16170
25°	22247	16445	14184
30°	22440	14758	11747
35°	22600	12559	9579
40°	22481	10255	7989
45°	21860	8409	7022
50°	20527	6990	6270
55°	18221	5976	5385
60°	14931	4965	4499
65°	11566	4165	3684
70°	8547	3573	3052
75°	6085	3167	2595
80°	4220	2943	2318
85°	2642	2815	2160



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.6	4.1
10°-20°	984.5	11.7
20°-30°	1438.4	17.1
30°-40°	1536.3	18.3
40°-50°	1353.9	16.1
50°-60°	1028.0	12.2
60°-70°	655.4	7.8
70°-80°	390.9	4.6
80°-90°	245.6	2.9
90°-100°	162.5	1.9
100°-110°	110.5	1.3
110°-120°	74.3	0.9
120°-130°	45.9	0.5
130°-140°	24.3	0.3
140°-150°	10.5	0.1
150°-160°	3.4	0.0
160°-170°	0.7	0.0
170°-180°	0.2	0.0
0°-30°	2769.6	32.9
0°-40°	4305.9	51.2
0°-60°	6687.8	79.5
0°-90°	7979.8	94.9
90°-120°	347.3	4.1
90°-150°	428.0	5.1
90°-180°	432.0	5.1
0°-180°	8412.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3679	3679	3679	3679	3679	
5°	3699	3672	3637	3648	3624	352
15°	3624	3557	3460	3436	3403	1025
25°	3471	3315	3116	2965	2870	1601
35°	3203	2856	2350	2056	1960	2001
45°	2693	2026	1506	1419	1410	2070
55°	1838	1150	990	1025	1027	1627
65°	873	591	613	650	644	881
75°	291	300	394	412	399	324
85°	49	163	275	289	276	60
90°	2	123	232	244	232	4
95°	0	93	194	205	194	0
105°	0	59	136	148	143	0
115°	0	37	93	112	110	0
125°	2	24	62	79	77	2
135°	2	13	38	48	46	1
145°	2	6	20	26	24	1
155°	2	4	7	11	7	1
165°	2	4	4	0	0	1
175°	4	4	4	0	0	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3679.2	3679.2	3679.2	3679.2	3679.2
2.5°	3704.9	3682.9	3655.4	3673.7	3659.1
5°	3699.4	3671.9	3637.1	3648.1	3624.3
7.5°	3690.2	3655.4	3606.0	3602.4	3574.9
10°	3675.6	3629.8	3563.9	3551.1	3521.8
12.5°	3655.4	3598.7	3516.3	3496.2	3461.4
15°	3624.3	3556.6	3459.6	3435.8	3402.8
17.5°	3593.2	3509.0	3395.5	3366.2	3327.8
20°	3556.6	3454.1	3326.0	3263.7	3216.1
22.5°	3518.2	3391.9	3234.4	3130.1	3067.9
25°	3470.6	3315.0	3115.5	2965.4	2870.2
27.5°	3417.5	3234.4	2969.0	2753.0	2639.5
30°	3353.4	3126.4	2789.6	2518.7	2399.7
32.5°	3289.4	3009.3	2570.0	2288.1	2180.1
35°	3203.3	2855.5	2350.3	2055.6	1960.4
37.5°	3106.3	2683.5	2110.5	1848.8	1779.2
40°	2989.2	2482.1	1885.4	1676.7	1625.5
42.5°	2862.9	2260.6	1689.5	1537.6	1510.1
45°	2692.6	2026.3	1506.5	1418.6	1409.5
47.5°	2524.2	1792.0	1350.9	1314.3	1319.8
50°	2308.2	1559.6	1209.9	1222.8	1231.9
52.5°	2070.3	1345.4	1094.6	1122.1	1129.4
55°	1837.8	1149.5	990.3	1025.1	1026.9
57.5°	1566.9	977.5	876.8	929.9	924.4
60°	1321.6	825.5	779.8	821.9	825.5
62.5°	1080.0	701.1	693.7	730.4	728.5
65°	873.1	591.2	613.2	649.8	644.3
67.5°	693.7	494.2	545.5	576.6	563.8
70°	529.0	419.2	486.9	510.7	503.4
72.5°	397.2	355.1	435.7	457.6	444.8
75°	291.0	300.2	393.6	411.9	399.0
77.5°	208.7	258.1	360.6	371.6	362.4
80°	140.9	219.7	327.7	342.3	327.7
82.5°	89.7	188.5	300.2	313.0	300.2
85°	49.4	162.9	274.6	289.2	276.4
87.5°	22.0	140.9	252.6	265.4	254.4
90°	1.8	122.6	232.5	243.5	232.5
92.5°	0.0	106.2	212.3	225.1	214.2
95°	0.0	93.4	194.0	205.0	194.0
97.5°	0.0	82.4	177.6	188.5	179.4
100°	0.0	73.2	162.9	173.9	164.7
102.5°	0.0	64.1	148.3	161.1	153.8
105°	0.0	58.6	135.5	148.3	142.8
107.5°	0.0	51.3	124.5	139.1	135.5
110°	0.0	45.8	113.5	130.0	126.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	42.1	102.5	120.8	117.1
115°	0.0	36.6	93.4	111.7	109.8
117.5°	0.0	32.9	86.0	102.5	102.5
120°	1.8	29.3	78.7	95.2	93.4
122.5°	1.8	25.6	69.6	86.0	84.2
125°	1.8	23.8	62.2	78.7	76.9
127.5°	1.8	20.1	56.7	69.6	67.7
130°	1.8	18.3	49.4	62.2	60.4
132.5°	1.8	14.6	43.9	54.9	53.1
135°	1.8	12.8	38.4	47.6	45.8
137.5°	1.8	11.0	32.9	42.1	40.3
140°	1.8	9.2	29.3	36.6	34.8
142.5°	1.8	7.3	23.8	31.1	29.3
145°	1.8	5.5	20.1	25.6	23.8
147.5°	1.8	3.7	16.5	22.0	20.1
150°	1.8	3.7	12.8	18.3	16.5
152.5°	1.8	3.7	11.0	14.6	11.0
155°	1.8	3.7	7.3	11.0	7.3
157.5°	1.8	3.7	5.5	7.3	5.5
160°	1.8	3.7	5.5	5.5	1.8
162.5°	1.8	3.7	3.7	1.8	0.0
165°	1.8	3.7	3.7	0.0	0.0
167.5°	1.8	3.7	3.7	0.0	0.0
170°	1.8	3.7	3.7	0.0	0.0
172.5°	1.8	3.7	3.7	0.0	0.0
175°	3.7	3.7	3.7	0.0	0.0
177.5°	1.8	3.7	1.8	0.0	0.0
180°	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)