

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: **4SRL-LD5-61SL-LC-UNV-L850-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 (P35657)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SRL-LD5-61SL-LC-UNV-L850-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

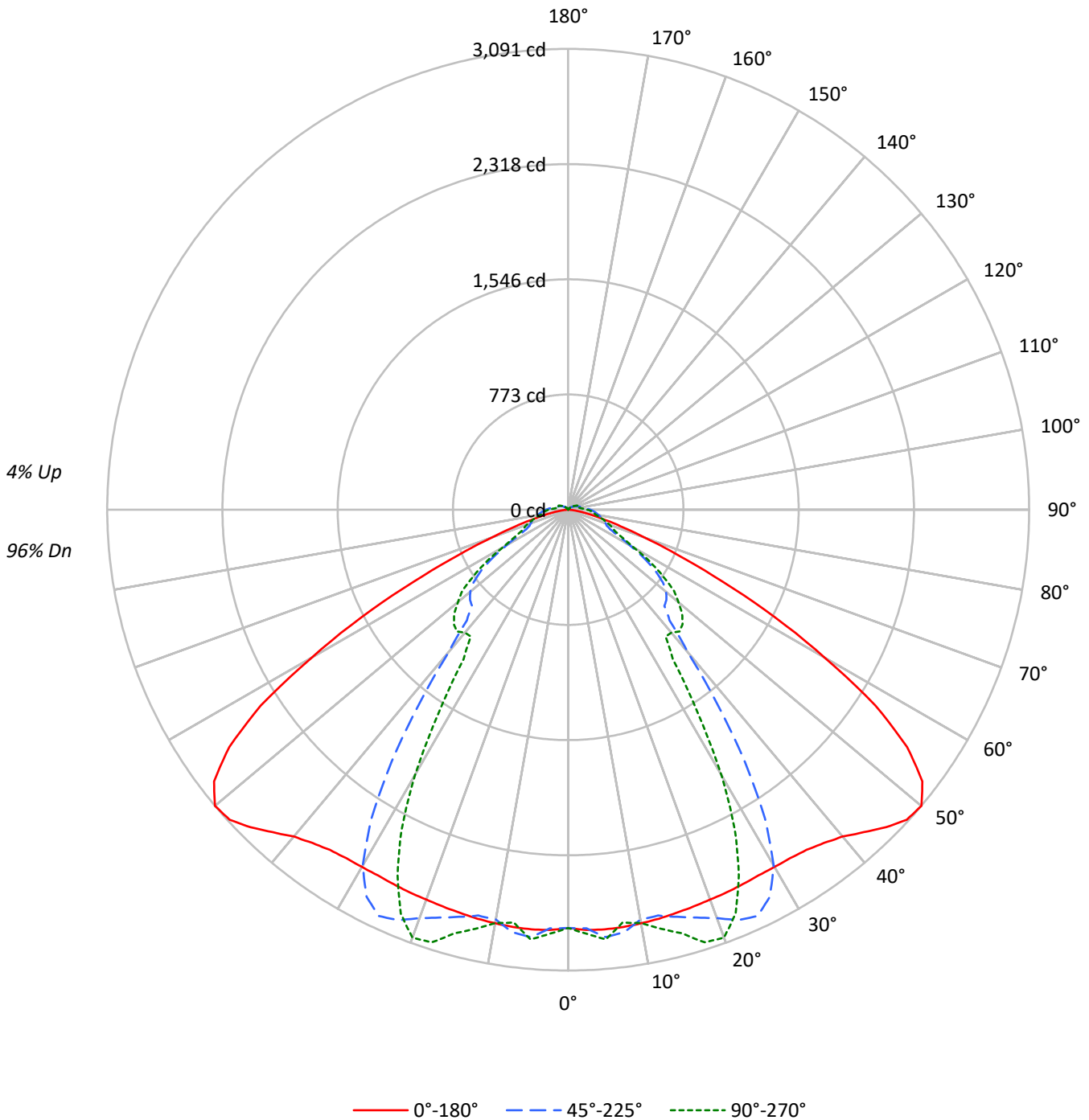
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6765.9 lumens  
Efficiency: N/A  
Efficacy: 144.0 lumens/watt  
Spacing Criteria (0/90/45): 1.54 / 1.13 / 1.12  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 3.67' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 47  
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	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	96	
1	109	105	101	97	106	102	99	95	97	94	92	93	90	88	89	87	85	89	87	85	83	
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	80	77	74	72	
3	93	83	76	70	90	81	75	69	78	72	67	75	70	66	72	68	64	72	68	64	62	
4	86	75	67	61	83	73	66	60	70	64	59	68	62	58	65	60	57	65	60	57	54	
5	79	67	59	53	77	66	59	53	64	57	52	61	56	51	59	54	50	59	54	50	48	
6	74	61	53	47	72	60	52	47	58	51	46	56	50	46	54	49	45	54	49	45	43	
7	69	56	48	42	67	55	47	42	53	46	41	52	45	41	50	45	40	50	45	40	38	
8	64	51	43	38	62	51	43	38	49	42	37	48	41	37	46	41	37	46	41	37	35	
9	60	47	40	35	58	47	39	34	45	39	34	44	38	34	43	37	33	43	37	33	32	
10	56	44	36	32	55	43	36	31	42	36	31	41	35	31	40	34	31	40	34	31	29	

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

	0°	45°	90°
0°	32943	32943	32943
5°	33175	32489	32228
10°	33323	30566	30041
15°	33627	30283	30336
20°	34203	30771	30709
25°	35156	31542	26759
30°	36553	28941	20134
35°	38695	21887	11960
40°	42256	13405	10583
45°	47842	10074	10799
50°	53570	9786	9829
55°	53324	8489	8128
60°	43296	5992	5505
65°	28791	4145	3993
70°	16606	3846	3605
75°	9123	3775	3059
80°	5043	3620	2612
85°	2305	3570	2571



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.2	4.0
10°-20°	813.4	12.0
20°-30°	1294.6	19.1
30°-40°	1319.4	19.5
40°-50°	1114.3	16.5
50°-60°	858.9	12.7
60°-70°	443.7	6.6
70°-80°	245.2	3.6
80°-90°	156.0	2.3
90°-100°	96.0	1.4
100°-110°	61.9	0.9
110°-120°	44.9	0.7
120°-130°	25.9	0.4
130°-140°	12.5	0.2
140°-150°	5.2	0.1
150°-160°	1.8	0.0
160°-170°	0.7	0.0
170°-180°	0.2	0.0
0°-30°	2379.2	35.2
0°-40°	3698.6	54.7
0°-60°	5671.8	83.8
0°-90°	6516.7	96.3
90°-120°	202.8	3.0
90°-150°	246.5	3.6
90°-180°	249.0	3.7
0°-180°	6765.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2806	2806	2806	2806	2806	
5°	2826	2836	2878	2905	2894	269
15°	2800	2801	2827	2928	2941	793
25°	2771	2790	3006	2859	2707	1283
35°	2785	2917	2065	1404	1224	1758
45°	3012	1758	912	1052	1084	2326
55°	2774	646	713	775	775	2402
65°	1137	296	310	349	349	1173
75°	235	195	240	241	235	283
85°	26	127	179	173	164	36
90°	0	98	149	137	127	1
95°	0	76	118	104	95	0
105°	0	46	78	72	68	0
115°	1	27	56	68	66	1
125°	1	14	36	43	39	1
135°	1	7	20	24	20	1
145°	1	3	10	13	10	1
155°	1	1	4	6	3	1
165°	1	3	3	3	0	0
175°	3	3	3	3	0	0
180°	1	1	1	1	1	



TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-61SL-LC-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2805.5	2805.5	2805.5	2805.5	2805.5
2.5°	2821.4	2811.3	2811.3	2847.4	2847.4
5°	2825.7	2835.8	2877.7	2905.1	2893.6
7.5°	2822.9	2869.0	2858.9	2818.5	2792.5
10°	2817.1	2886.4	2791.1	2818.5	2815.6
12.5°	2809.9	2860.4	2788.2	2884.9	2879.1
15°	2799.8	2801.2	2827.2	2928.2	2941.2
17.5°	2791.1	2763.7	2869.0	3004.7	3042.2
20°	2782.4	2752.1	2913.8	3069.6	3053.8
22.5°	2778.1	2762.2	2980.2	3020.6	2932.5
25°	2770.9	2789.7	3006.1	2858.9	2707.4
27.5°	2765.1	2821.4	2926.8	2583.3	2421.6
30°	2766.6	2866.1	2755.0	2260.0	2056.5
32.5°	2770.9	2909.4	2456.3	1827.1	1616.4
35°	2785.3	2916.7	2065.2	1404.2	1223.8
37.5°	2817.1	2837.3	1639.4	1111.2	1072.3
40°	2861.8	2597.7	1244.0	1037.6	1076.6
42.5°	2934.0	2195.1	1005.9	1049.2	1106.9
45°	3011.9	1757.8	912.1	1052.1	1083.8
47.5°	3078.3	1297.4	893.3	1013.1	1036.2
50°	3091.3	977.0	857.2	951.1	965.5
52.5°	2993.1	772.1	799.5	868.8	894.8
55°	2773.8	646.5	712.9	775.0	775.0
57.5°	2443.3	548.4	598.9	658.1	652.3
60°	1988.7	451.7	477.7	513.8	505.1
62.5°	1564.4	362.2	370.9	409.9	415.6
65°	1137.2	295.9	310.3	349.2	349.2
67.5°	798.1	252.6	280.0	316.1	318.9
70°	544.1	228.0	267.0	295.9	297.3
72.5°	370.9	210.7	254.0	269.9	265.5
75°	235.2	194.8	239.6	241.0	235.2
77.5°	153.0	177.5	225.1	213.6	209.3
80°	93.8	160.2	206.4	191.9	184.7
82.5°	53.4	142.9	191.9	181.8	174.6
85°	26.0	127.0	179.0	173.2	164.5
87.5°	10.1	112.6	164.5	155.9	147.2
90°	0.0	98.1	148.6	137.1	127.0
92.5°	0.0	86.6	132.8	118.3	109.7
95°	0.0	76.5	118.3	103.9	95.2
97.5°	0.0	67.8	105.4	92.4	82.3
100°	0.0	60.6	95.2	82.3	75.0
102.5°	0.0	53.4	85.1	76.5	72.2
105°	0.0	46.2	77.9	72.2	67.8
107.5°	0.0	40.4	70.7	69.3	66.4
110°	0.0	36.1	66.4	67.8	69.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	31.7	60.6	69.3	70.7
115°	1.4	27.4	56.3	67.8	66.4
117.5°	1.4	23.1	50.5	60.6	57.7
120°	1.4	20.2	46.2	54.8	50.5
122.5°	1.4	17.3	40.4	47.6	44.7
125°	1.4	14.4	36.1	43.3	39.0
127.5°	1.4	13.0	31.7	37.5	34.6
130°	1.4	11.5	27.4	33.2	30.3
132.5°	1.4	8.7	24.5	28.9	24.5
135°	1.4	7.2	20.2	24.5	20.2
137.5°	1.4	5.8	17.3	20.2	17.3
140°	1.4	4.3	14.4	17.3	14.4
142.5°	1.4	4.3	11.5	15.9	11.5
145°	1.4	2.9	10.1	13.0	10.1
147.5°	1.4	2.9	8.7	11.5	8.7
150°	1.4	2.9	7.2	10.1	5.8
152.5°	1.4	1.4	5.8	8.7	4.3
155°	1.4	1.4	4.3	5.8	2.9
157.5°	1.4	1.4	4.3	4.3	2.9
160°	1.4	1.4	4.3	4.3	1.4
162.5°	1.4	1.4	2.9	2.9	0.0
165°	1.4	2.9	2.9	2.9	0.0
167.5°	1.4	2.9	2.9	2.9	0.0
170°	1.4	2.9	2.9	2.9	0.0
172.5°	1.4	2.9	2.9	2.9	0.0
175°	2.9	2.9	2.9	2.9	0.0
177.5°	2.9	2.9	2.9	2.9	0.0
180°	1.4	1.4	1.4	1.4	1.4

(END OF REPORT)