

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-LD5-41SL-LW-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 (P35653)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SRL-LD5-41SL-LW-UNV-L840-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

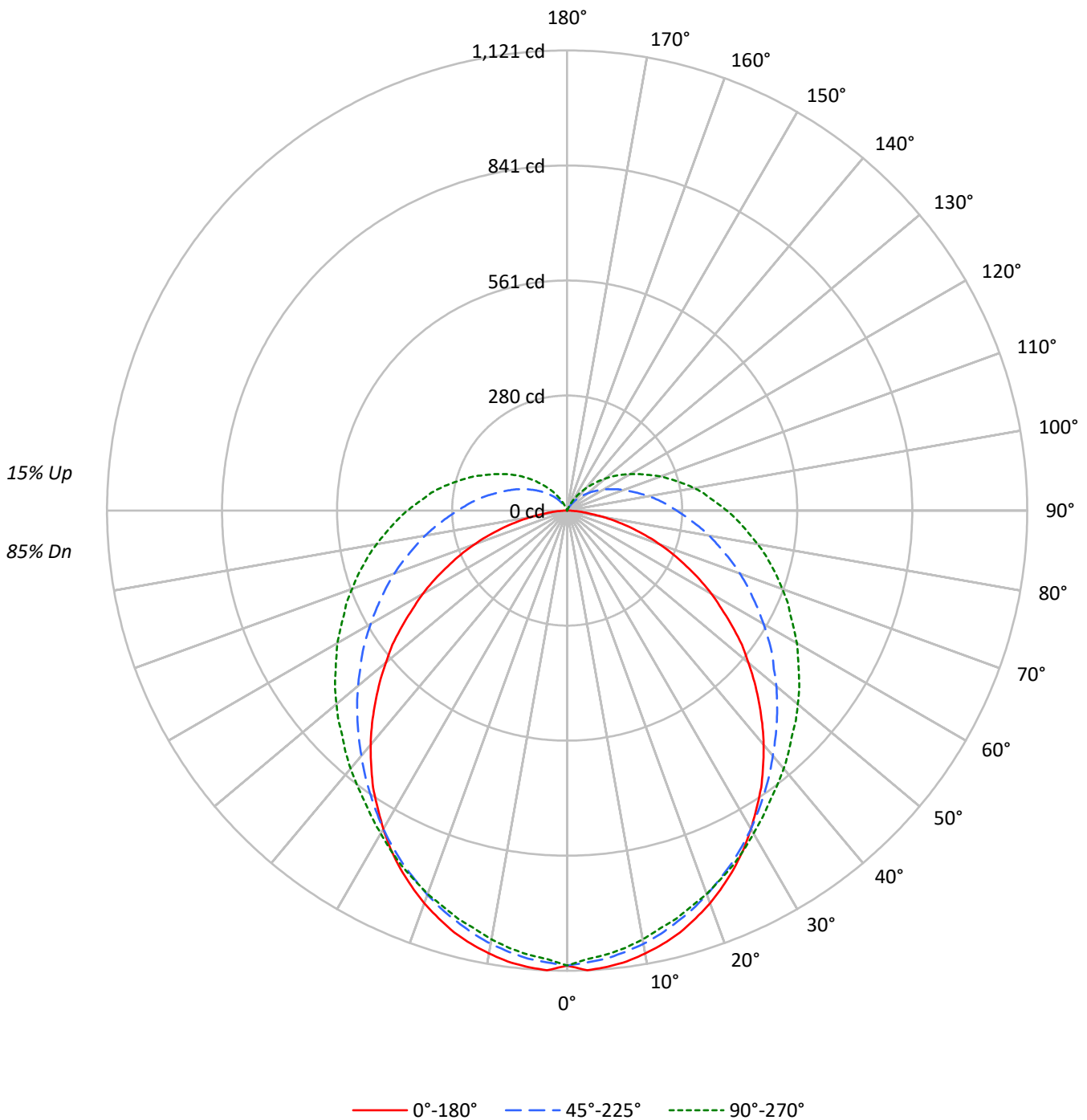
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4264.0 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 3.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 33.7  
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	0
RCR																				
0	116	116	116	116	111	111	111	111	103	103	103		95	95	95		88	88	88	85
1	103	97	92	87	98	93	88	84	86	82	79		80	76	74		74	71	69	66
2	92	83	75	69	88	80	73	67	74	68	63		68	64	59		63	59	56	53
3	84	72	63	56	80	70	61	55	64	58	52		60	54	49		55	51	47	44
4	76	64	54	47	73	61	53	46	57	50	44		53	47	42		49	44	40	37
5	70	57	47	40	67	55	46	39	51	43	38		47	41	36		44	38	34	32
6	65	51	42	35	62	49	40	34	46	38	33		43	36	31		40	34	30	27
7	60	46	37	31	57	44	36	30	42	34	29		39	32	28		36	31	26	24
8	56	42	33	27	53	41	32	27	38	31	26		36	29	25		33	28	24	21
9	52	38	30	24	50	37	29	24	35	28	23		33	27	22		31	25	21	19
10	49	35	27	22	47	34	27	22	32	25	21		30	24	20		29	23	19	17

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

	0°	45°	90°
0°	13013	13013	13013
5°	13104	12368	12096
10°	12958	11736	11316
15°	12777	11106	10611
20°	12510	10513	9995
25°	12207	9946	9431
30°	11832	9407	8892
35°	11448	8884	8425
40°	10994	8401	8068
45°	10492	7979	7720
50°	9987	7594	7467
55°	9431	7261	7227
60°	8848	6931	7043
65°	8119	6659	6862
70°	7316	6449	6757
75°	6222	6254	6691
80°	4693	6154	6669
85°	2678	6111	6700



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.3	2.4
10°-20°	294.3	6.9
20°-30°	439.5	10.3
30°-40°	526.7	12.4
40°-50°	557.2	13.1
50°-60°	538.1	12.6
60°-70°	478.6	11.2
70°-80°	393.5	9.2
80°-90°	301.0	7.1
90°-100°	226.3	5.3
100°-110°	165.2	3.9
110°-120°	113.1	2.7
120°-130°	70.6	1.7
130°-140°	37.7	0.9
140°-150°	15.1	0.4
150°-160°	2.9	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	838.0	19.7
0°-40°	1364.7	32.0
0°-60°	2460.0	57.7
0°-90°	3633.1	85.2
90°-120°	504.7	11.8
90°-150°	628.1	14.7
90°-180°	631.0	14.8
0°-180°	4264.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1116	1110	1096	1094	1086	106
15°	1064	1053	1037	1037	1029	300
25°	962	953	948	959	954	443
35°	824	821	838	862	862	514
45°	660	680	722	764	775	510
55°	491	535	610	670	689	439
65°	321	394	498	576	600	319
75°	160	265	397	487	514	170
85°	30	164	306	398	429	37
90°	0	125	267	359	389	2
95°	0	97	233	322	349	0
105°	0	60	172	251	276	0
115°	0	36	122	189	208	0
125°	0	22	83	133	149	0
135°	0	11	51	84	94	0
145°	0	3	22	43	49	0
155°	0	0	3	11	11	0
165°	0	0	0	0	0	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°	1108.2	1108.2	1108.2	1108.2	1108.2
2.5°	1120.9	1114.6	1101.9	1100.3	1093.9
5°	1116.1	1109.8	1095.5	1093.9	1086.0
7.5°	1108.2	1100.3	1084.4	1082.8	1074.9
10°	1095.5	1087.6	1071.7	1070.1	1060.6
12.5°	1081.2	1073.3	1055.8	1054.2	1043.1
15°	1063.8	1052.6	1036.8	1036.8	1028.8
17.5°	1041.5	1032.0	1017.7	1019.3	1009.8
20°	1017.7	1008.2	995.5	1000.2	993.9
22.5°	990.7	979.6	971.7	978.0	973.3
25°	962.1	952.6	947.9	959.0	954.2
27.5°	930.4	920.9	922.5	933.6	932.0
30°	895.5	889.1	895.5	909.7	908.2
32.5°	858.9	855.8	866.9	885.9	885.9
35°	824.0	820.8	838.3	862.1	862.1
37.5°	784.3	785.9	809.7	836.7	841.5
40°	744.6	751.0	779.6	812.9	820.8
42.5°	703.3	714.5	751.0	787.5	798.6
45°	660.5	679.5	722.4	763.7	774.8
47.5°	619.2	643.0	693.8	741.5	755.7
50°	576.3	604.9	665.2	717.6	733.5
52.5°	536.6	570.0	635.1	693.8	712.9
55°	490.6	535.1	609.7	670.0	689.1
57.5°	446.1	498.5	581.1	646.2	666.8
60°	406.4	462.0	552.5	624.0	646.2
62.5°	363.6	427.1	525.5	600.1	622.4
65°	320.7	393.7	498.5	576.3	600.1
67.5°	281.0	358.8	473.1	554.1	581.1
70°	239.7	327.1	447.7	531.9	557.3
72.5°	200.0	295.3	422.3	508.1	536.6
75°	160.4	265.1	396.9	487.4	514.4
77.5°	122.3	236.6	373.1	465.2	493.8
80°	87.3	209.6	350.9	443.0	471.5
82.5°	55.6	184.2	328.7	420.7	449.3
85°	30.2	163.5	306.4	398.5	428.7
87.5°	11.1	141.3	285.8	379.5	409.6
90°	0.0	125.4	266.7	358.8	389.0
92.5°	0.0	109.6	249.3	339.8	368.3
95°	0.0	96.8	233.4	322.3	349.3
97.5°	0.0	85.7	217.5	304.8	333.4
100°	0.0	76.2	201.6	285.8	314.4
102.5°	0.0	66.7	185.8	268.3	295.3
105°	0.0	60.3	171.5	250.9	276.3
107.5°	0.0	54.0	158.8	236.6	258.8
110°	0.0	47.6	146.1	219.1	242.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	42.9	135.0	204.8	223.9
115°	0.0	36.5	122.3	188.9	208.0
117.5°	0.0	33.3	112.7	174.6	192.1
120°	0.0	28.6	101.6	160.4	177.8
122.5°	0.0	25.4	92.1	146.1	163.5
125°	0.0	22.2	82.6	133.4	149.2
127.5°	0.0	19.1	74.6	120.7	135.0
130°	0.0	15.9	65.1	108.0	120.7
132.5°	0.0	12.7	57.2	95.3	108.0
135°	0.0	11.1	50.8	84.1	93.7
137.5°	0.0	7.9	42.9	73.0	82.6
140°	0.0	6.4	36.5	63.5	69.9
142.5°	0.0	4.8	28.6	52.4	60.3
145°	0.0	3.2	22.2	42.9	49.2
147.5°	0.0	1.6	15.9	34.9	38.1
150°	0.0	1.6	11.1	27.0	28.6
152.5°	0.0	0.0	7.9	19.1	19.1
155°	0.0	0.0	3.2	11.1	11.1
157.5°	1.6	0.0	1.6	4.8	4.8
160°	1.6	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
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)