

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-LD5-104SL-LN-UNV-L830-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-LD5-104SL-LN-UNV-L830-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

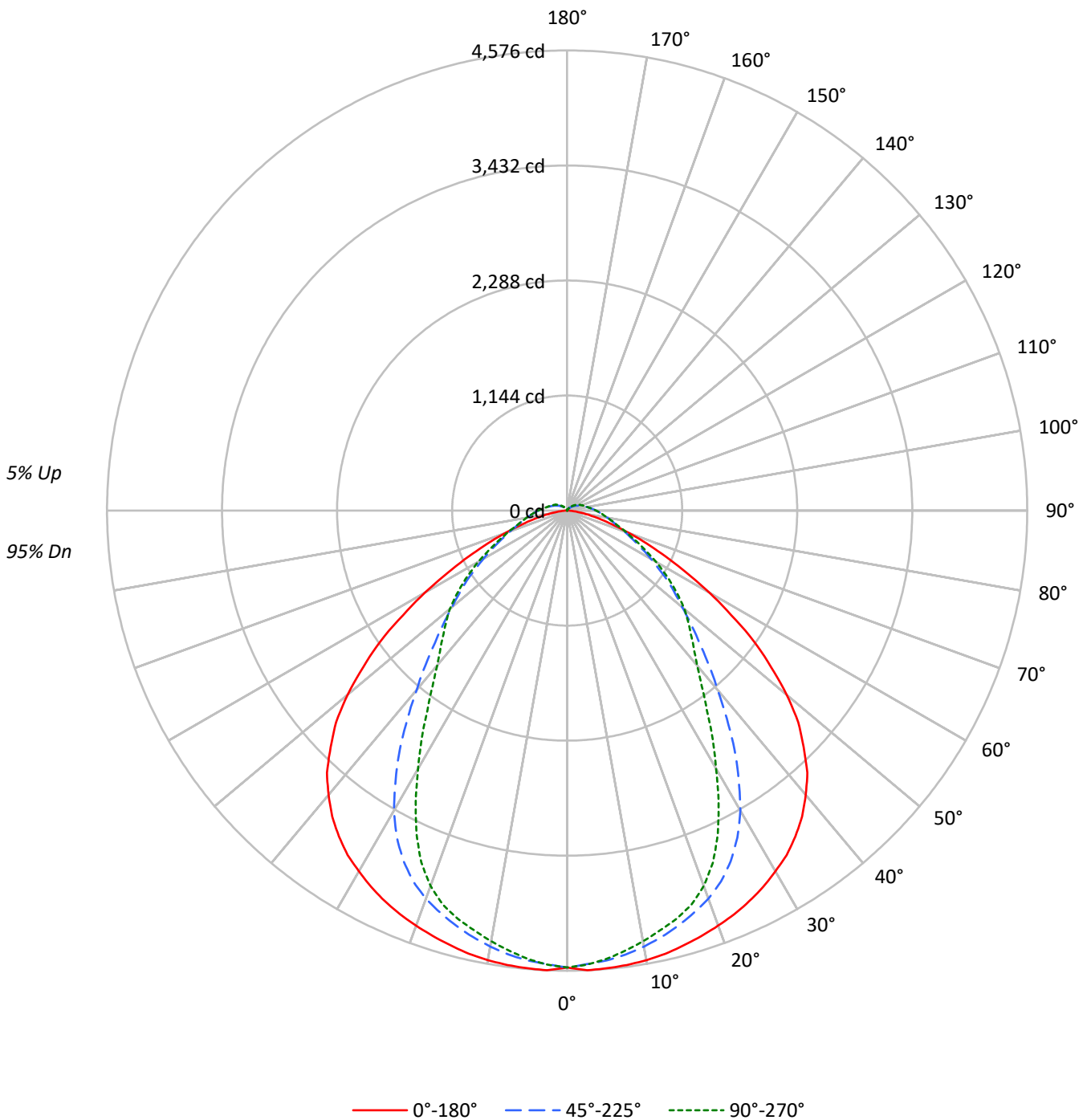
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10389.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 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): 79.7  
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	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°	26678	26678	26678
5°	26873	25391	24927
10°	26955	24164	23203
15°	27043	22970	21673
20°	27219	21797	19971
25°	27476	20309	17517
30°	27714	18227	14508
35°	27912	15511	11831
40°	27765	12666	9867
45°	26998	10385	8672
50°	25352	8633	7744
55°	22503	7381	6650
60°	18440	6131	5556
65°	14284	5144	4550
70°	10556	4412	3769
75°	7515	3910	3205
80°	5214	3635	2862
85°	3262	3476	2668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.1	4.1
10°-20°	1215.9	11.7
20°-30°	1776.5	17.1
30°-40°	1897.4	18.3
40°-50°	1672.1	16.1
50°-60°	1269.6	12.2
60°-70°	809.4	7.8
70°-80°	482.8	4.6
80°-90°	303.3	2.9
90°-100°	200.7	1.9
100°-110°	136.4	1.3
110°-120°	91.8	0.9
120°-130°	56.7	0.5
130°-140°	30.0	0.3
140°-150°	13.0	0.1
150°-160°	4.1	0.0
160°-170°	0.9	0.0
170°-180°	0.2	0.0
0°-30°	3420.5	32.9
0°-40°	5317.9	51.2
0°-60°	8259.6	79.5
0°-90°	9855.2	94.9
90°-120°	428.9	4.1
90°-150°	528.6	5.1
90°-180°	534.0	5.1
0°-180°	10389.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4544	4544	4544	4544	4544	
5°	4569	4535	4492	4506	4476	435
15°	4476	4392	4273	4243	4203	1266
25°	4286	4094	3848	3662	3545	1978
35°	3956	3527	2903	2539	2421	2471
45°	3325	2503	1860	1752	1741	2556
55°	2270	1420	1223	1266	1268	2009
65°	1078	730	757	802	796	1089
75°	359	371	486	509	493	401
85°	61	201	339	357	341	74
90°	2	152	287	301	287	4
95°	0	115	240	253	240	0
105°	0	72	167	183	176	0
115°	0	45	115	138	136	0
125°	2	29	77	97	95	2
135°	2	16	48	59	56	2
145°	2	7	25	32	29	1
155°	2	4	9	14	9	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°	4543.9	4543.9	4543.9	4543.9	4543.9
2.5°	4575.6	4548.5	4514.6	4537.2	4519.1
5°	4568.8	4534.9	4491.9	4505.5	4476.1
7.5°	4557.5	4514.6	4453.5	4449.0	4415.1
10°	4539.4	4482.9	4401.5	4385.7	4349.5
12.5°	4514.6	4444.5	4342.7	4317.9	4274.9
15°	4476.1	4392.5	4272.7	4243.3	4202.6
17.5°	4437.7	4333.7	4193.5	4157.4	4109.9
20°	4392.5	4265.9	4107.6	4030.8	3972.0
22.5°	4345.0	4189.0	3994.6	3865.7	3788.9
25°	4286.2	4094.1	3847.7	3662.3	3544.7
27.5°	4220.7	3994.6	3666.8	3400.0	3259.9
30°	4141.5	3861.2	3445.3	3110.7	2963.7
32.5°	4062.4	3716.5	3174.0	2825.8	2692.5
35°	3956.2	3526.6	2902.7	2538.7	2421.2
37.5°	3836.4	3314.1	2606.5	2283.3	2197.4
40°	3691.7	3065.5	2328.5	2070.8	2007.5
42.5°	3535.7	2791.9	2086.6	1899.0	1865.0
45°	3325.4	2502.6	1860.5	1752.0	1740.7
47.5°	3117.5	2213.2	1668.4	1623.2	1629.9
50°	2850.7	1926.1	1494.3	1510.1	1521.4
52.5°	2556.8	1661.6	1351.9	1385.8	1394.8
55°	2269.7	1419.7	1223.0	1266.0	1268.2
57.5°	1935.1	1207.2	1082.9	1148.4	1141.6
60°	1632.2	1019.6	963.0	1015.0	1019.6
62.5°	1333.8	865.8	856.8	902.0	899.7
65°	1078.3	730.2	757.3	802.5	795.8
67.5°	856.8	610.4	673.7	712.1	696.3
70°	653.3	517.7	601.3	630.7	621.7
72.5°	490.6	438.6	538.0	565.2	549.3
75°	359.4	370.7	486.0	508.6	492.8
77.5°	257.7	318.8	445.4	458.9	447.6
80°	174.1	271.3	404.7	422.7	404.7
82.5°	110.8	232.8	370.7	386.6	370.7
85°	61.0	201.2	339.1	357.2	341.4
87.5°	27.1	174.1	312.0	327.8	314.2
90°	2.3	151.5	287.1	300.7	287.1
92.5°	0.0	131.1	262.2	278.1	264.5
95°	0.0	115.3	239.6	253.2	239.6
97.5°	0.0	101.7	219.3	232.8	221.5
100°	0.0	90.4	201.2	214.8	203.5
102.5°	0.0	79.1	183.1	198.9	189.9
105°	0.0	72.3	167.3	183.1	176.3
107.5°	0.0	63.3	153.7	171.8	167.3
110°	0.0	56.5	140.2	160.5	156.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	52.0	126.6	149.2	144.7
115°	0.0	45.2	115.3	137.9	135.6
117.5°	0.0	40.7	106.3	126.6	126.6
120°	2.3	36.2	97.2	117.6	115.3
122.5°	2.3	31.6	85.9	106.3	104.0
125°	2.3	29.4	76.9	97.2	94.9
127.5°	2.3	24.9	70.1	85.9	83.6
130°	2.3	22.6	61.0	76.9	74.6
132.5°	2.3	18.1	54.3	67.8	65.6
135°	2.3	15.8	47.5	58.8	56.5
137.5°	2.3	13.6	40.7	52.0	49.7
140°	2.3	11.3	36.2	45.2	43.0
142.5°	2.3	9.0	29.4	38.4	36.2
145°	2.3	6.8	24.9	31.6	29.4
147.5°	2.3	4.5	20.3	27.1	24.9
150°	2.3	4.5	15.8	22.6	20.3
152.5°	2.3	4.5	13.6	18.1	13.6
155°	2.3	4.5	9.0	13.6	9.0
157.5°	2.3	4.5	6.8	9.0	6.8
160°	2.3	4.5	6.8	6.8	2.3
162.5°	2.3	4.5	4.5	2.3	0.0
165°	2.3	4.5	4.5	0.0	0.0
167.5°	2.3	4.5	4.5	0.0	0.0
170°	2.3	4.5	4.5	0.0	0.0
172.5°	2.3	4.5	4.5	0.0	0.0
175°	4.5	4.5	4.5	0.0	0.0
177.5°	2.3	4.5	2.3	0.0	0.0
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)