

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-LD5-89SL-LC-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 (P35657)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SRL-LD5-89SL-LC-UNV-L840-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

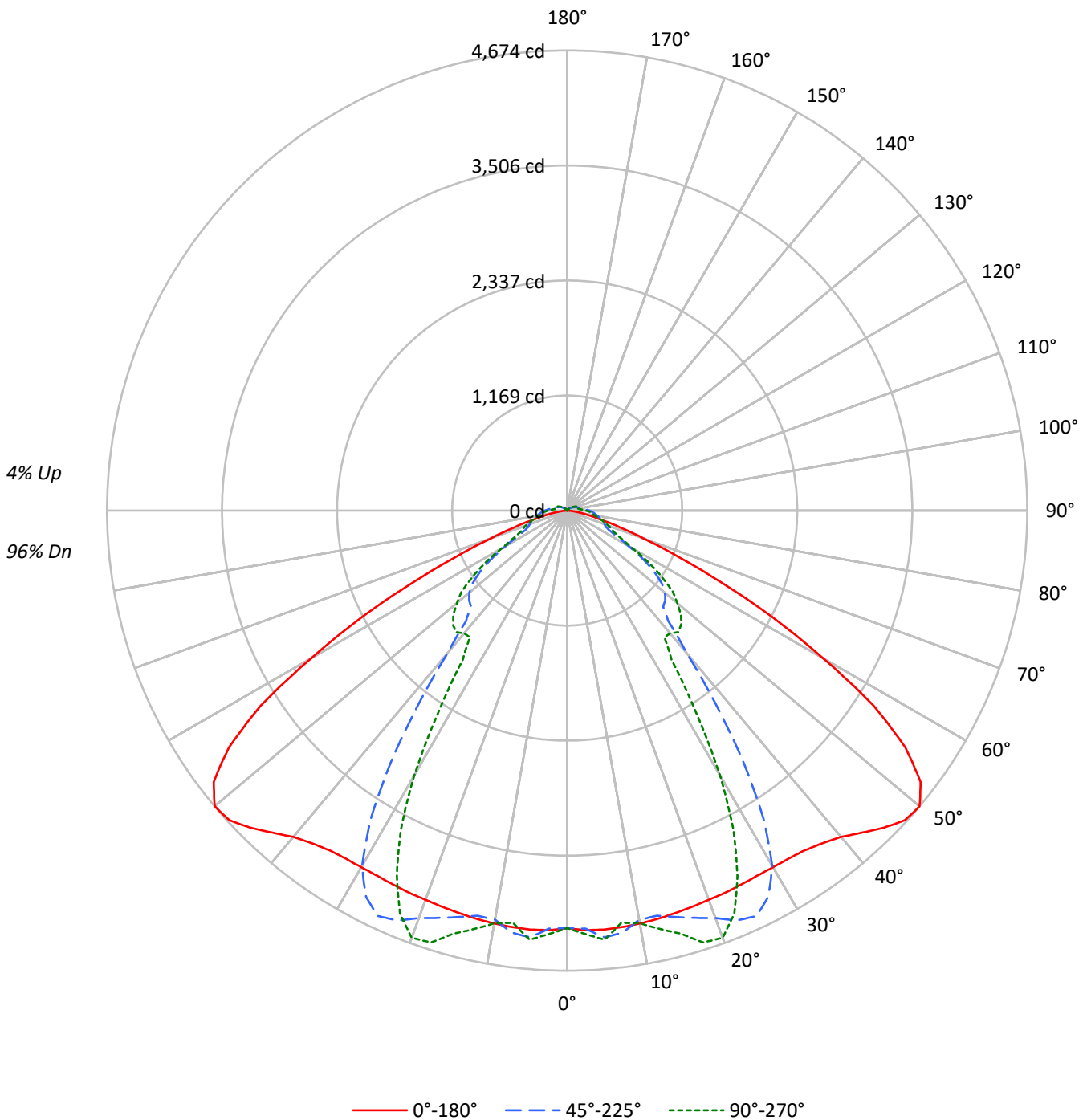
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10229.0 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Spacing Criteria (0/90/45): 1.54 / 1.13 / 1.12  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 7.33' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 73.4  
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°	24903	24903	24903
5°	25128	24592	24361
10°	25289	23166	22708
15°	25572	22979	22932
20°	26067	23376	23213
25°	26853	23988	20228
30°	27989	22035	15220
35°	29709	16683	9041
40°	32540	10230	7999
45°	36968	7697	8163
50°	41562	7488	7429
55°	41576	6504	6143
60°	33968	4598	4161
65°	22775	3186	3019
70°	13289	2962	2725
75°	7436	2914	2313
80°	4247	2802	1975
85°	2102	2773	1944



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.1	4.0
10°-20°	1229.7	12.0
20°-30°	1957.2	19.1
30°-40°	1994.6	19.5
40°-50°	1684.7	16.5
50°-60°	1298.6	12.7
60°-70°	670.8	6.6
70°-80°	370.6	3.6
80°-90°	235.9	2.3
90°-100°	145.1	1.4
100°-110°	93.6	0.9
110°-120°	67.9	0.7
120°-130°	39.2	0.4
130°-140°	18.9	0.2
140°-150°	7.9	0.1
150°-160°	2.8	0.0
160°-170°	1.0	0.0
170°-180°	0.3	0.0
0°-30°	3597.0	35.2
0°-40°	5591.6	54.7
0°-60°	8574.8	83.8
0°-90°	9852.1	96.3
90°-120°	306.6	3.0
90°-150°	372.7	3.6
90°-180°	377.0	3.7
0°-180°	10229.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4242	4242	4242	4242	4242	
5°	4272	4287	4351	4392	4375	407
15°	4233	4235	4274	4427	4447	1199
25°	4189	4218	4545	4322	4093	1939
35°	4211	4410	3122	2123	1850	2658
45°	4554	2658	1379	1591	1639	3517
55°	4194	978	1078	1172	1172	3631
65°	1719	447	469	528	528	1774
75°	356	294	362	364	356	428
85°	39	192	270	262	249	54
90°	0	148	225	207	192	2
95°	0	116	179	157	144	0
105°	0	70	118	109	102	0
115°	2	42	85	102	100	1
125°	2	22	54	66	59	2
135°	2	11	30	37	30	2
145°	2	4	15	20	15	1
155°	2	2	6	9	4	1
165°	2	4	4	4	0	1
175°	4	4	4	4	0	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4241.5	4241.5	4241.5	4241.5	4241.5
2.5°	4265.5	4250.2	4250.2	4304.7	4304.7
5°	4272.0	4287.3	4350.6	4392.0	4374.6
7.5°	4267.7	4337.5	4322.2	4261.1	4221.8
10°	4258.9	4363.7	4219.7	4261.1	4256.7
12.5°	4248.0	4324.4	4215.3	4361.5	4352.7
15°	4232.7	4234.9	4274.2	4426.9	4446.6
17.5°	4219.7	4178.2	4337.5	4542.6	4599.3
20°	4206.6	4160.7	4405.1	4640.7	4616.7
22.5°	4200.0	4176.0	4505.5	4566.6	4433.5
25°	4189.1	4217.5	4544.7	4322.2	4093.1
27.5°	4180.4	4265.5	4424.7	3905.5	3661.1
30°	4182.6	4333.1	4165.1	3416.7	3109.1
32.5°	4189.1	4398.6	3713.5	2762.2	2443.6
35°	4210.9	4409.5	3122.2	2122.9	1850.2
37.5°	4258.9	4289.5	2478.6	1680.0	1621.1
40°	4326.6	3927.3	1880.7	1568.7	1627.6
42.5°	4435.7	3318.6	1520.7	1586.2	1673.5
45°	4553.5	2657.5	1378.9	1590.6	1638.6
47.5°	4653.8	1961.5	1350.6	1531.6	1566.6
50°	4673.5	1477.1	1296.0	1437.8	1459.6
52.5°	4525.1	1167.3	1208.7	1313.5	1352.7
55°	4193.5	977.5	1077.8	1171.6	1171.6
57.5°	3693.8	829.1	905.5	994.9	986.2
60°	3006.6	682.9	722.2	776.7	763.6
62.5°	2365.1	547.6	560.7	619.6	628.4
65°	1719.3	447.3	469.1	528.0	528.0
67.5°	1206.6	381.8	423.3	477.8	482.2
70°	822.5	344.7	403.6	447.3	449.5
72.5°	560.7	318.5	384.0	408.0	401.5
75°	355.6	294.5	362.2	364.4	355.6
77.5°	231.3	268.4	340.4	322.9	316.4
80°	141.8	242.2	312.0	290.2	279.3
82.5°	80.7	216.0	290.2	274.9	264.0
85°	39.3	192.0	270.5	261.8	248.7
87.5°	15.3	170.2	248.7	235.6	222.5
90°	0.0	148.4	224.7	207.3	192.0
92.5°	0.0	130.9	200.7	178.9	165.8
95°	0.0	115.6	178.9	157.1	144.0
97.5°	0.0	102.5	159.3	139.6	124.4
100°	0.0	91.6	144.0	124.4	113.5
102.5°	0.0	80.7	128.7	115.6	109.1
105°	0.0	69.8	117.8	109.1	102.5
107.5°	0.0	61.1	106.9	104.7	100.4
110°	0.0	54.5	100.4	102.5	104.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	48.0	91.6	104.7	106.9
115°	2.2	41.5	85.1	102.5	100.4
117.5°	2.2	34.9	76.4	91.6	87.3
120°	2.2	30.5	69.8	82.9	76.4
122.5°	2.2	26.2	61.1	72.0	67.6
125°	2.2	21.8	54.5	65.5	58.9
127.5°	2.2	19.6	48.0	56.7	52.4
130°	2.2	17.5	41.5	50.2	45.8
132.5°	2.2	13.1	37.1	43.6	37.1
135°	2.2	10.9	30.5	37.1	30.5
137.5°	2.2	8.7	26.2	30.5	26.2
140°	2.2	6.5	21.8	26.2	21.8
142.5°	2.2	6.5	17.5	24.0	17.5
145°	2.2	4.4	15.3	19.6	15.3
147.5°	2.2	4.4	13.1	17.5	13.1
150°	2.2	4.4	10.9	15.3	8.7
152.5°	2.2	2.2	8.7	13.1	6.5
155°	2.2	2.2	6.5	8.7	4.4
157.5°	2.2	2.2	6.5	6.5	4.4
160°	2.2	2.2	6.5	6.5	2.2
162.5°	2.2	2.2	4.4	4.4	0.0
165°	2.2	4.4	4.4	4.4	0.0
167.5°	2.2	4.4	4.4	4.4	0.0
170°	2.2	4.4	4.4	4.4	0.0
172.5°	2.2	4.4	4.4	4.4	0.0
175°	4.4	4.4	4.4	4.4	0.0
177.5°	4.4	4.4	4.4	4.4	0.0
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)