

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-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 (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-L850-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

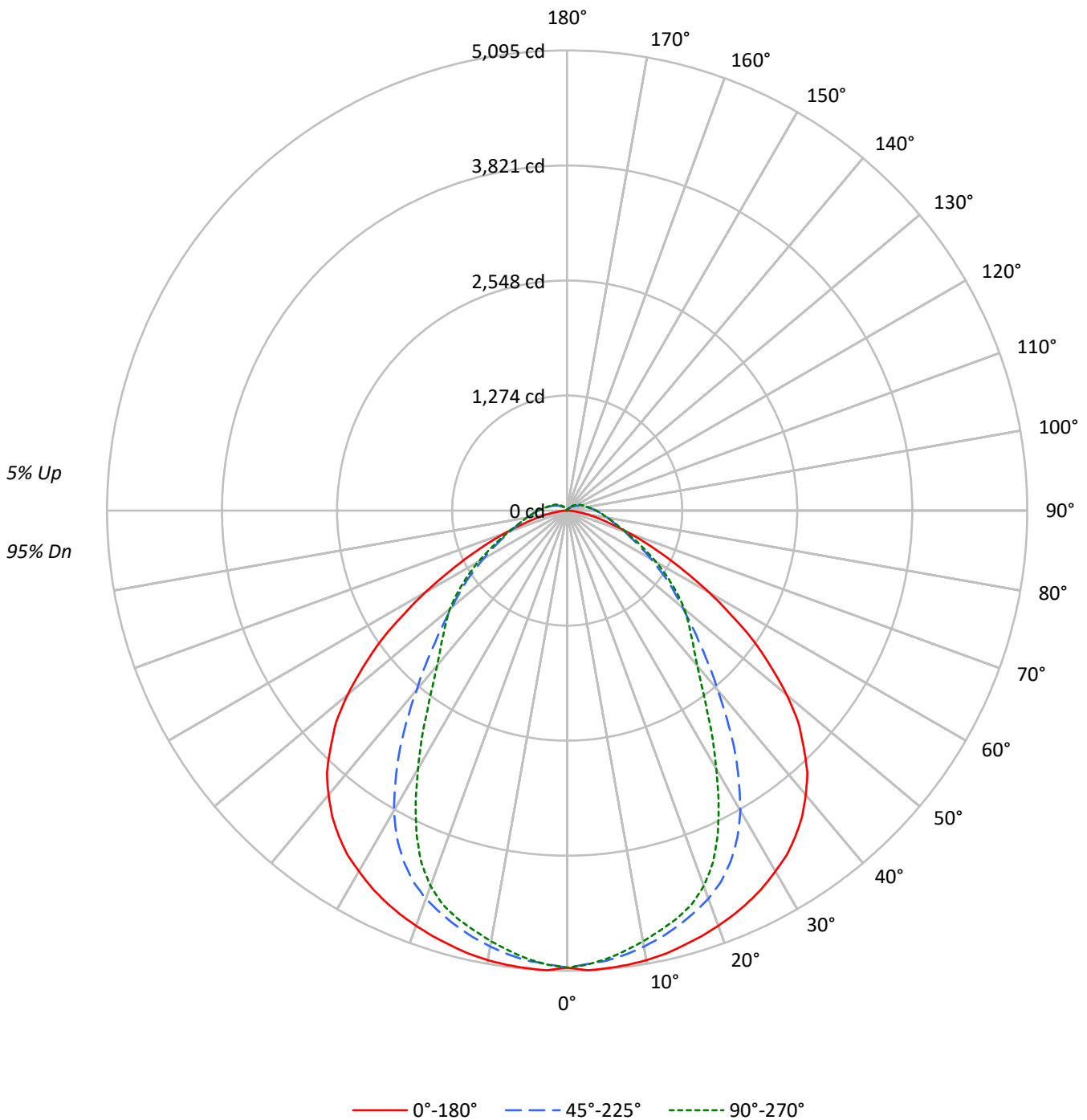
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11568.0 lumens
Efficiency: N/A
Efficacy: 145.1 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): 79.7
Input Voltage (V): NR
Input Current (A_{in}): 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				95
1	108	104	100	96	105	101	97	94	96	93	90	91	89	86	87	85	83	80				80
2	99	92	85	80	96	89	83	79	85	80	76	81	77	74	77	74	71	69				69
3	91	82	74	68	88	80	73	67	76	70	65	73	68	63	69	65	62	59				59
4	84	73	65	59	82	71	64	58	68	62	57	65	60	55	63	58	54	52				52
5	78	66	58	51	76	65	57	51	62	55	50	59	54	49	57	52	48	46				46
6	72	60	51	45	70	59	51	45	56	49	44	54	48	44	52	47	43	41				41
7	67	55	46	41	65	54	46	40	52	45	40	50	44	39	48	43	38	37				37
8	63	50	42	37	61	49	42	36	48	41	36	46	40	35	44	39	35	33				33
9	59	46	38	33	57	45	38	33	44	37	33	43	37	32	41	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29706	29706	29706
5°	29923	28272	27756
10°	30014	26906	25836
15°	30112	25577	24133
20°	30308	24271	22238
25°	30594	22614	19506
30°	30859	20295	16155
35°	31079	17271	13173
40°	30915	14103	10986
45°	30062	11564	9656
50°	28229	9613	8623
55°	25057	8218	7405
60°	20532	6827	6187
65°	15905	5728	5067
70°	11754	4914	4196
75°	8369	4355	3569
80°	5804	4047	3187
85°	3636	3871	2970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.7	4.1
10°-20°	1353.9	11.7
20°-30°	1978.1	17.1
30°-40°	2112.7	18.3
40°-50°	1861.9	16.1
50°-60°	1413.7	12.2
60°-70°	901.3	7.8
70°-80°	537.6	4.6
80°-90°	337.7	2.9
90°-100°	223.5	1.9
100°-110°	151.9	1.3
110°-120°	102.2	0.9
120°-130°	63.1	0.5
130°-140°	33.4	0.3
140°-150°	14.4	0.1
150°-160°	4.6	0.0
160°-170°	1.0	0.0
170°-180°	0.3	0.0
0°-30°	3808.7	32.9
0°-40°	5921.4	51.2
0°-60°	9197.0	79.5
0°-90°	10973.6	94.9
90°-120°	477.6	4.1
90°-150°	588.6	5.1
90°-180°	594.0	5.1
0°-180°	11568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5060	5060	5060	5060	5060	
5°	5087	5050	5002	5017	4984	484
15°	4984	4891	4758	4725	4680	1410
25°	4773	4559	4284	4078	3947	2202
35°	4405	3927	3232	2827	2696	2752
45°	3703	2787	2072	1951	1938	2847
55°	2527	1581	1362	1410	1412	2237
65°	1201	813	843	894	886	1212
75°	400	413	541	566	549	446
85°	68	224	378	398	380	82
90°	2	169	320	335	320	5
95°	0	128	267	282	267	0
105°	0	81	186	204	196	0
115°	0	50	128	154	151	0
125°	2	33	86	108	106	2
135°	2	18	53	65	63	2
145°	2	8	28	35	33	2
155°	2	5	10	15	10	1
165°	2	5	5	0	0	1
175°	5	5	5	0	0	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5059.6	5059.6	5059.6	5059.6	5059.6
2.5°	5094.9	5064.6	5026.9	5052.1	5031.9
5°	5087.3	5049.5	5001.7	5016.8	4984.1
7.5°	5074.7	5026.9	4958.9	4953.9	4916.1
10°	5054.6	4991.6	4901.0	4883.4	4843.1
12.5°	5026.9	4948.9	4835.6	4807.9	4760.1
15°	4984.1	4891.0	4757.5	4724.8	4679.5
17.5°	4941.3	4825.5	4669.4	4629.2	4576.3
20°	4891.0	4750.0	4573.8	4488.2	4422.8
22.5°	4838.1	4664.4	4447.9	4304.4	4218.9
25°	4772.6	4558.7	4284.3	4077.9	3947.0
27.5°	4699.6	4447.9	4082.9	3785.9	3629.8
30°	4611.5	4299.4	3836.2	3463.7	3300.1
32.5°	4523.4	4138.3	3534.2	3146.5	2998.0
35°	4405.1	3926.9	3232.1	2826.8	2695.9
37.5°	4271.7	3690.2	2902.4	2542.4	2446.7
40°	4110.6	3413.3	2592.7	2305.8	2235.3
42.5°	3936.9	3108.8	2323.4	2114.5	2076.7
45°	3702.8	2786.6	2071.7	1950.8	1938.3
47.5°	3471.2	2464.4	1857.7	1807.4	1814.9
50°	3174.2	2144.7	1663.9	1681.5	1694.1
52.5°	2847.0	1850.2	1505.3	1543.1	1553.1
55°	2527.3	1580.8	1361.8	1409.6	1412.2
57.5°	2154.7	1344.2	1205.7	1278.7	1271.2
60°	1817.4	1135.3	1072.3	1130.2	1135.3
62.5°	1485.2	964.1	954.0	1004.4	1001.9
65°	1200.7	813.1	843.3	893.6	886.1
67.5°	954.0	679.6	750.1	792.9	775.3
70°	727.5	576.4	669.6	702.3	692.2
72.5°	546.2	488.3	599.1	629.3	611.7
75°	400.2	412.8	541.2	566.4	548.8
77.5°	287.0	354.9	495.9	511.0	498.4
80°	193.8	302.1	450.6	470.7	450.6
82.5°	123.3	259.3	412.8	430.4	412.8
85°	68.0	224.0	377.6	397.7	380.1
87.5°	30.2	193.8	347.4	365.0	349.9
90°	2.5	168.7	319.7	334.8	319.7
92.5°	0.0	146.0	292.0	309.6	294.5
95°	0.0	128.4	266.8	281.9	266.8
97.5°	0.0	113.3	244.2	259.3	246.7
100°	0.0	100.7	224.0	239.1	226.5
102.5°	0.0	88.1	203.9	221.5	211.4
105°	0.0	80.6	186.3	203.9	196.3
107.5°	0.0	70.5	171.2	191.3	186.3
110°	0.0	62.9	156.1	178.7	173.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	57.9	141.0	166.1	161.1
115°	0.0	50.3	128.4	153.6	151.0
117.5°	0.0	45.3	118.3	141.0	141.0
120°	2.5	40.3	108.2	130.9	128.4
122.5°	2.5	35.2	95.7	118.3	115.8
125°	2.5	32.7	85.6	108.2	105.7
127.5°	2.5	27.7	78.0	95.7	93.1
130°	2.5	25.2	68.0	85.6	83.1
132.5°	2.5	20.1	60.4	75.5	73.0
135°	2.5	17.6	52.9	65.4	62.9
137.5°	2.5	15.1	45.3	57.9	55.4
140°	2.5	12.6	40.3	50.3	47.8
142.5°	2.5	10.1	32.7	42.8	40.3
145°	2.5	7.6	27.7	35.2	32.7
147.5°	2.5	5.0	22.7	30.2	27.7
150°	2.5	5.0	17.6	25.2	22.7
152.5°	2.5	5.0	15.1	20.1	15.1
155°	2.5	5.0	10.1	15.1	10.1
157.5°	2.5	5.0	7.6	10.1	7.6
160°	2.5	5.0	7.6	7.6	2.5
162.5°	2.5	5.0	5.0	2.5	0.0
165°	2.5	5.0	5.0	0.0	0.0
167.5°	2.5	5.0	5.0	0.0	0.0
170°	2.5	5.0	5.0	0.0	0.0
172.5°	2.5	5.0	5.0	0.0	0.0
175°	5.0	5.0	5.0	0.0	0.0
177.5°	2.5	5.0	2.5	0.0	0.0
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)