

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-LD5-106SL-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: 8SRL-LD5-106SL-LC-UNV-L850-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

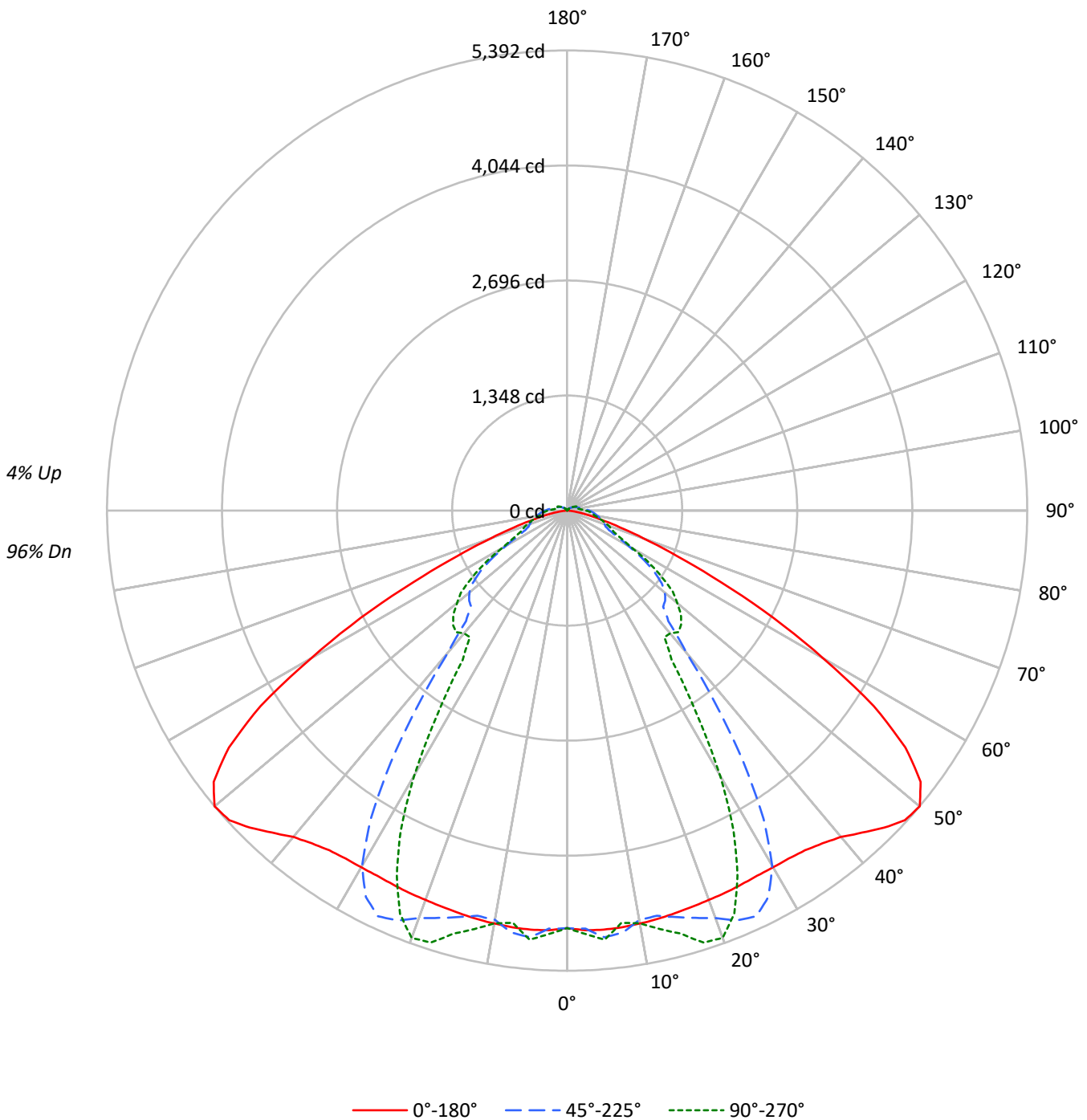
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11802.0 lumens
Efficiency: N/A
Efficacy: 148.1 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): 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	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°	28732	28732	28732
5°	28992	28374	28108
10°	29179	26728	26200
15°	29504	26512	26457
20°	30075	26970	26783
25°	30983	27677	23338
30°	32293	25424	17560
35°	34277	19249	10431
40°	37544	11803	9230
45°	42653	8881	9418
50°	47953	8639	8572
55°	47969	7505	7088
60°	39191	5305	4802
65°	26278	3676	3483
70°	15333	3417	3144
75°	8580	3362	2668
80°	4900	3233	2279
85°	2422	3200	2243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.1	4.0
10°-20°	1418.8	12.0
20°-30°	2258.1	19.1
30°-40°	2301.4	19.5
40°-50°	1943.7	16.5
50°-60°	1498.2	12.7
60°-70°	773.9	6.6
70°-80°	427.6	3.6
80°-90°	272.2	2.3
90°-100°	167.5	1.4
100°-110°	108.0	0.9
110°-120°	78.3	0.7
120°-130°	45.2	0.4
130°-140°	21.9	0.2
140°-150°	9.1	0.1
150°-160°	3.2	0.0
160°-170°	1.1	0.0
170°-180°	0.4	0.0
0°-30°	4150.1	35.2
0°-40°	6451.5	54.7
0°-60°	9893.5	83.8
0°-90°	11367.2	96.3
90°-120°	353.7	3.0
90°-150°	430.0	3.6
90°-180°	435.0	3.7
0°-180°	11802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4894	4894	4894	4894	4894	
5°	4929	4947	5020	5067	5047	470
15°	4884	4886	4932	5108	5130	1384
25°	4833	4866	5244	4987	4722	2238
35°	4858	5088	3602	2449	2135	3067
45°	5254	3066	1591	1835	1890	4058
55°	4838	1128	1244	1352	1352	4189
65°	1984	516	541	609	609	2047
75°	410	340	418	420	410	494
85°	45	222	312	302	287	62
90°	0	171	259	239	222	2
95°	0	133	206	181	166	0
105°	0	81	136	126	118	0
115°	2	48	98	118	116	2
125°	2	25	63	76	68	2
135°	2	13	35	43	35	2
145°	2	5	18	23	18	2
155°	2	2	8	10	5	1
165°	2	5	5	5	0	1
175°	5	5	5	5	0	0
180°	2	2	2	2	2	



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-106SL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4893.7	4893.7	4893.7	4893.7	4893.7
2.5°	4921.4	4903.8	4903.8	4966.7	4966.7
5°	4929.0	4946.6	5019.6	5067.4	5047.3
7.5°	4923.9	5004.5	4986.9	4916.4	4871.1
10°	4913.9	5034.7	4868.5	4916.4	4911.3
12.5°	4901.3	4989.4	4863.5	5032.2	5022.1
15°	4883.6	4886.2	4931.5	5107.7	5130.3
17.5°	4868.5	4820.7	5004.5	5241.1	5306.6
20°	4853.4	4800.6	5082.5	5354.4	5326.7
22.5°	4845.9	4818.2	5198.3	5268.8	5115.2
25°	4833.3	4866.0	5243.6	4986.9	4722.5
27.5°	4823.2	4921.4	5105.2	4506.0	4224.1
30°	4825.8	4999.4	4805.6	3942.2	3587.2
32.5°	4833.3	5075.0	4284.5	3187.0	2819.4
35°	4858.5	5087.6	3602.3	2449.4	2134.7
37.5°	4913.9	4949.1	2859.7	1938.4	1870.4
40°	4991.9	4531.2	2170.0	1810.0	1877.9
42.5°	5117.8	3828.9	1754.6	1830.1	1930.8
45°	5253.7	3066.1	1591.0	1835.1	1890.5
47.5°	5369.5	2263.1	1558.2	1767.2	1807.5
50°	5392.2	1704.2	1495.3	1658.9	1684.1
52.5°	5221.0	1346.8	1394.6	1515.4	1560.8
55°	4838.3	1127.8	1243.6	1351.8	1351.8
57.5°	4261.9	956.6	1044.7	1147.9	1137.8
60°	3468.9	787.9	833.2	896.2	881.1
62.5°	2728.8	631.9	647.0	714.9	725.0
65°	1983.7	516.1	541.2	609.2	609.2
67.5°	1392.1	440.5	488.4	551.3	556.3
70°	949.0	397.7	465.7	516.1	518.6
72.5°	647.0	367.5	443.1	470.7	463.2
75°	410.3	339.8	417.9	420.4	410.3
77.5°	266.8	309.6	392.7	372.6	365.0
80°	163.6	279.4	360.0	334.8	322.2
82.5°	93.1	249.2	334.8	317.2	304.6
85°	45.3	221.5	312.2	302.1	287.0
87.5°	17.6	196.4	287.0	271.9	256.8
90°	0.0	171.2	259.3	239.1	221.5
92.5°	0.0	151.0	231.6	206.4	191.3
95°	0.0	133.4	206.4	181.2	166.1
97.5°	0.0	118.3	183.8	161.1	143.5
100°	0.0	105.7	166.1	143.5	130.9
102.5°	0.0	93.1	148.5	133.4	125.9
105°	0.0	80.6	135.9	125.9	118.3
107.5°	0.0	70.5	123.3	120.8	115.8
110°	0.0	62.9	115.8	118.3	120.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	55.4	105.7	120.8	123.3
115°	2.5	47.8	98.2	118.3	115.8
117.5°	2.5	40.3	88.1	105.7	100.7
120°	2.5	35.2	80.6	95.7	88.1
122.5°	2.5	30.2	70.5	83.1	78.0
125°	2.5	25.2	62.9	75.5	68.0
127.5°	2.5	22.7	55.4	65.5	60.4
130°	2.5	20.1	47.8	57.9	52.9
132.5°	2.5	15.1	42.8	50.3	42.8
135°	2.5	12.6	35.2	42.8	35.2
137.5°	2.5	10.1	30.2	35.2	30.2
140°	2.5	7.6	25.2	30.2	25.2
142.5°	2.5	7.6	20.1	27.7	20.1
145°	2.5	5.0	17.6	22.7	17.6
147.5°	2.5	5.0	15.1	20.1	15.1
150°	2.5	5.0	12.6	17.6	10.1
152.5°	2.5	2.5	10.1	15.1	7.6
155°	2.5	2.5	7.6	10.1	5.0
157.5°	2.5	2.5	7.6	7.6	5.0
160°	2.5	2.5	7.6	7.6	2.5
162.5°	2.5	2.5	5.0	5.0	0.0
165°	2.5	5.0	5.0	5.0	0.0
167.5°	2.5	5.0	5.0	5.0	0.0
170°	2.5	5.0	5.0	5.0	0.0
172.5°	2.5	5.0	5.0	5.0	0.0
175°	5.0	5.0	5.0	5.0	0.0
177.5°	5.0	5.0	5.0	5.0	0.0
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)