

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-LD5-53SL-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: 4SRL-LD5-53SL-LC-UNV-L850-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

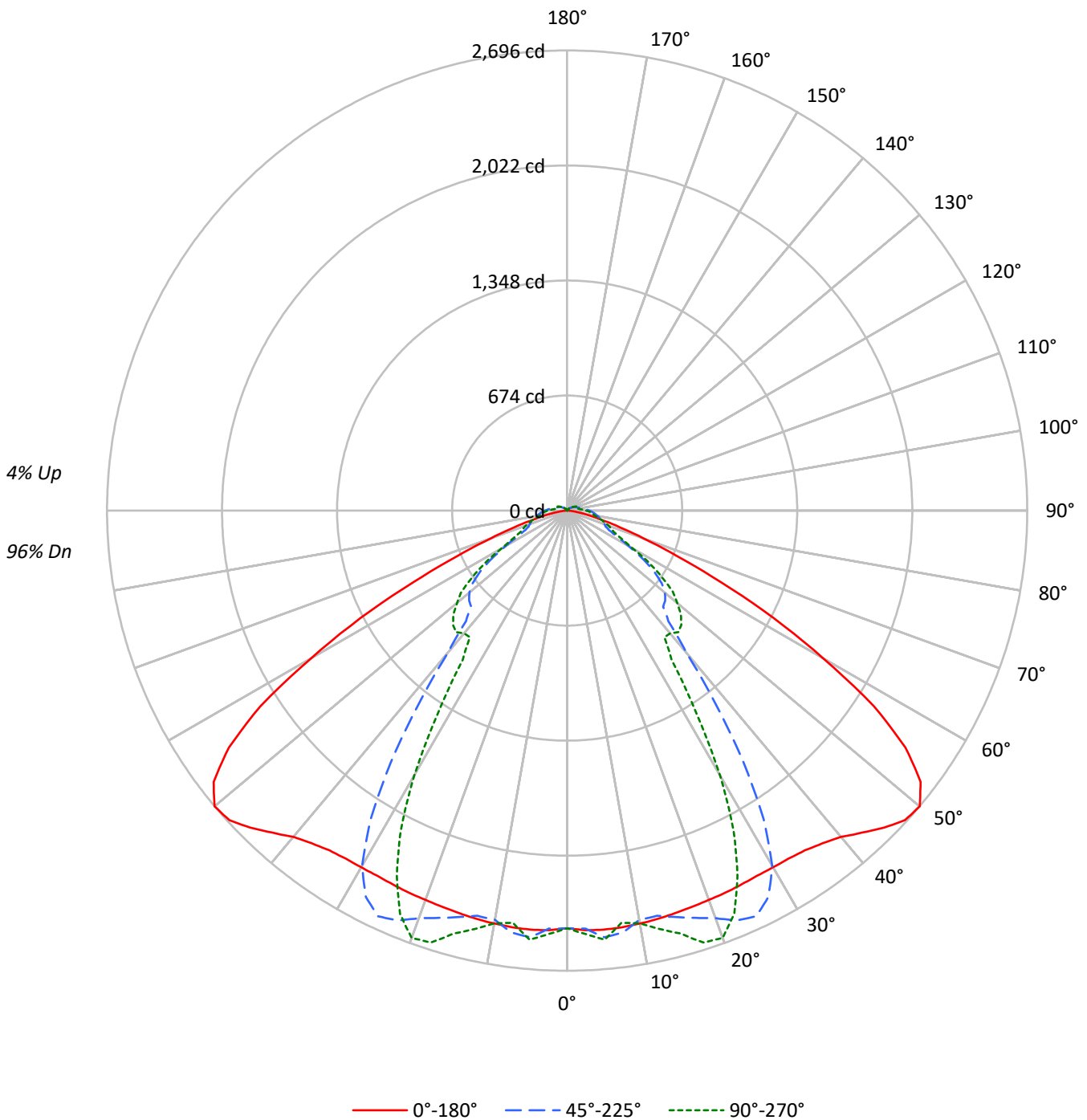
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5901.1 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Spacing Criteria (0/90/45): 1.54 / 1.13 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 3.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 39.9
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°	28733	28733	28733
5°	28935	28335	28107
10°	29062	26659	26201
15°	29327	26411	26458
20°	29831	26837	26783
25°	30662	27509	23338
30°	31880	25241	17560
35°	33748	19089	10431
40°	36853	11692	9230
45°	41725	8786	9419
50°	46721	8536	8572
55°	46508	7405	7088
60°	37762	5226	4801
65°	25109	3615	3483
70°	14482	3355	3144
75°	7960	3292	2669
80°	4398	3157	2279
85°	2013	3113	2243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	4.0
10°-20°	709.4	12.0
20°-30°	1129.1	19.1
30°-40°	1150.7	19.5
40°-50°	971.9	16.5
50°-60°	749.1	12.7
60°-70°	387.0	6.6
70°-80°	213.8	3.6
80°-90°	136.1	2.3
90°-100°	83.7	1.4
100°-110°	54.0	0.9
110°-120°	39.2	0.7
120°-130°	22.6	0.4
130°-140°	10.9	0.2
140°-150°	4.6	0.1
150°-160°	1.6	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	2075.1	35.2
0°-40°	3225.7	54.7
0°-60°	4946.7	83.8
0°-90°	5683.6	96.3
90°-120°	176.9	3.0
90°-150°	215.1	3.6
90°-180°	217.0	3.7
0°-180°	5901.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2447	2447	2447	2447	2447	
5°	2464	2473	2510	2534	2524	235
15°	2442	2443	2466	2554	2565	692
25°	2417	2433	2622	2493	2361	1119
35°	2429	2544	1801	1225	1067	1533
45°	2627	1533	796	918	945	2029
55°	2419	564	622	676	676	2095
65°	992	258	271	305	305	1023
75°	205	170	209	210	205	247
85°	23	111	156	151	144	31
90°	0	86	130	120	111	1
95°	0	67	103	91	83	0
105°	0	40	68	63	59	0
115°	1	24	49	59	58	1
125°	1	13	32	38	34	1
135°	1	6	18	21	18	1
145°	1	2	9	11	9	1
155°	1	1	4	5	2	1
165°	1	2	2	2	0	0
175°	2	2	2	2	0	0
180°	1	1	1	1	1	



TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-53SL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2446.9	2446.9	2446.9	2446.9	2446.9
2.5°	2460.7	2451.9	2451.9	2483.4	2483.4
5°	2464.5	2473.3	2509.8	2533.7	2523.6
7.5°	2462.0	2502.2	2493.4	2458.2	2435.5
10°	2456.9	2517.3	2434.3	2458.2	2455.7
12.5°	2450.6	2494.7	2431.8	2516.1	2511.1
15°	2441.8	2443.1	2465.7	2553.8	2565.2
17.5°	2434.3	2410.4	2502.2	2620.6	2653.3
20°	2426.7	2400.3	2541.3	2677.2	2663.4
22.5°	2422.9	2409.1	2599.2	2634.4	2557.6
25°	2416.7	2433.0	2621.8	2493.4	2361.3
27.5°	2411.6	2460.7	2552.6	2253.0	2112.1
30°	2412.9	2499.7	2402.8	1971.1	1793.6
32.5°	2416.7	2537.5	2142.3	1593.5	1409.7
35°	2429.2	2543.8	1801.2	1224.7	1067.4
37.5°	2456.9	2474.6	1429.9	969.2	935.2
40°	2495.9	2265.6	1085.0	905.0	939.0
42.5°	2558.9	1914.4	877.3	915.1	965.4
45°	2626.8	1533.1	795.5	917.6	945.3
47.5°	2684.7	1131.5	779.1	883.6	903.7
50°	2696.1	852.1	747.7	829.5	842.1
52.5°	2610.5	673.4	697.3	757.7	780.4
55°	2419.2	563.9	621.8	675.9	675.9
57.5°	2130.9	478.3	522.3	574.0	568.9
60°	1734.5	394.0	416.6	448.1	440.5
62.5°	1364.4	315.9	323.5	357.5	362.5
65°	991.8	258.0	270.6	304.6	304.6
67.5°	696.0	220.3	244.2	275.6	278.2
70°	474.5	198.9	232.9	258.0	259.3
72.5°	323.5	183.8	221.5	235.4	231.6
75°	205.2	169.9	208.9	210.2	205.2
77.5°	133.4	154.8	196.4	186.3	182.5
80°	81.8	139.7	180.0	167.4	161.1
82.5°	46.6	124.6	167.4	158.6	152.3
85°	22.7	110.8	156.1	151.0	143.5
87.5°	8.8	98.2	143.5	135.9	128.4
90°	0.0	85.6	129.6	119.6	110.8
92.5°	0.0	75.5	115.8	103.2	95.7
95°	0.0	66.7	103.2	90.6	83.1
97.5°	0.0	59.2	91.9	80.6	71.7
100°	0.0	52.9	83.1	71.7	65.5
102.5°	0.0	46.6	74.3	66.7	62.9
105°	0.0	40.3	68.0	62.9	59.2
107.5°	0.0	35.2	61.7	60.4	57.9
110°	0.0	31.5	57.9	59.2	60.4



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	27.7	52.9	60.4	61.7
115°	1.3	23.9	49.1	59.2	57.9
117.5°	1.3	20.1	44.1	52.9	50.3
120°	1.3	17.6	40.3	47.8	44.1
122.5°	1.3	15.1	35.2	41.5	39.0
125°	1.3	12.6	31.5	37.8	34.0
127.5°	1.3	11.3	27.7	32.7	30.2
130°	1.3	10.1	23.9	28.9	26.4
132.5°	1.3	7.6	21.4	25.2	21.4
135°	1.3	6.3	17.6	21.4	17.6
137.5°	1.3	5.0	15.1	17.6	15.1
140°	1.3	3.8	12.6	15.1	12.6
142.5°	1.3	3.8	10.1	13.8	10.1
145°	1.3	2.5	8.8	11.3	8.8
147.5°	1.3	2.5	7.6	10.1	7.6
150°	1.3	2.5	6.3	8.8	5.0
152.5°	1.3	1.3	5.0	7.6	3.8
155°	1.3	1.3	3.8	5.0	2.5
157.5°	1.3	1.3	3.8	3.8	2.5
160°	1.3	1.3	3.8	3.8	1.3
162.5°	1.3	1.3	2.5	2.5	0.0
165°	1.3	2.5	2.5	2.5	0.0
167.5°	1.3	2.5	2.5	2.5	0.0
170°	1.3	2.5	2.5	2.5	0.0
172.5°	1.3	2.5	2.5	2.5	0.0
175°	2.5	2.5	2.5	2.5	0.0
177.5°	2.5	2.5	2.5	2.5	0.0
180°	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)