

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-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: 4SRL-LD5-53SL-LC-UNV-L840-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

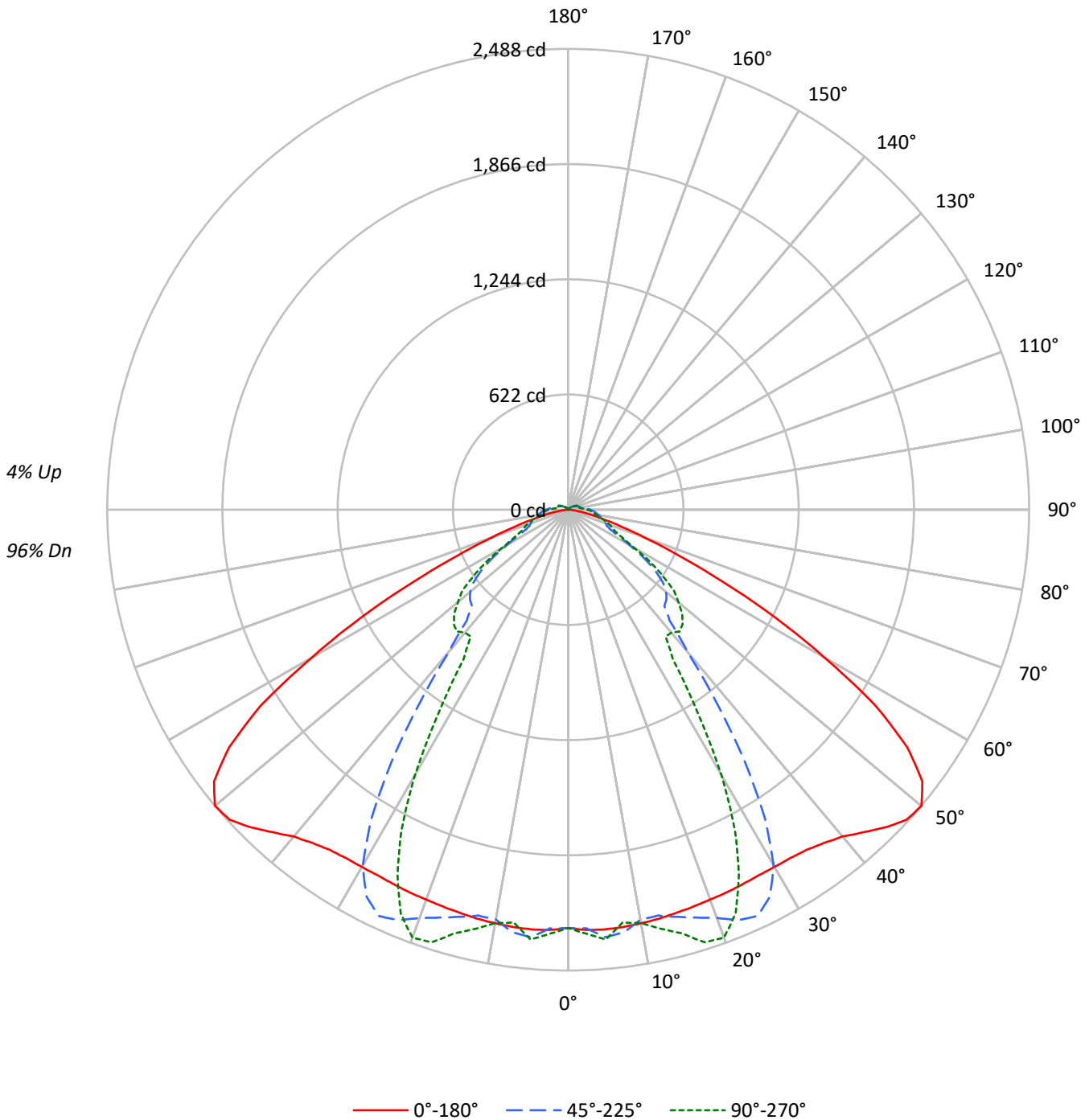
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5446.0 lumens  
Efficiency: N/A  
Efficacy: 136.5 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 (Ain): 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°	26517	26517	26517
5°	26704	26151	25941
10°	26822	24603	24180
15°	27065	24375	24418
20°	27531	24768	24718
25°	28297	25389	21539
30°	29421	23295	16206
35°	31146	17617	9627
40°	34012	10790	8518
45°	38508	8108	8692
50°	43119	7878	7911
55°	42920	6833	6542
60°	34849	4823	4432
65°	23175	3336	3215
70°	13365	3095	2901
75°	7343	3038	2462
80°	4059	2913	2103
85°	1853	2872	2069



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.3	4.0
10°-20°	654.7	12.0
20°-30°	1042.0	19.1
30°-40°	1062.0	19.5
40°-50°	896.9	16.5
50°-60°	691.4	12.7
60°-70°	357.1	6.6
70°-80°	197.3	3.6
80°-90°	125.6	2.3
90°-100°	77.3	1.4
100°-110°	49.8	0.9
110°-120°	36.2	0.7
120°-130°	20.9	0.4
130°-140°	10.1	0.2
140°-150°	4.2	0.1
150°-160°	1.5	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	1915.1	35.2
0°-40°	2977.0	54.7
0°-60°	4565.3	83.8
0°-90°	5245.3	96.3
90°-120°	163.3	3.0
90°-150°	198.5	3.6
90°-180°	201.0	3.7
0°-180°	5446.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2258	2258	2258	2258	2258	
5°	2274	2283	2316	2338	2329	217
15°	2254	2255	2276	2357	2367	638
25°	2230	2245	2420	2301	2179	1033
35°	2242	2348	1662	1130	985	1415
45°	2424	1415	734	847	872	1872
55°	2233	520	574	624	624	1933
65°	915	238	250	281	281	944
75°	189	157	193	194	189	228
85°	21	102	144	139	132	29
90°	0	79	120	110	102	1
95°	0	62	95	84	77	0
105°	0	37	63	58	55	0
115°	1	22	45	55	53	1
125°	1	12	29	35	31	1
135°	1	6	16	20	16	1
145°	1	2	8	10	8	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2258.2	2258.2	2258.2	2258.2	2258.2
2.5°	2271.0	2262.8	2262.8	2291.9	2291.9
5°	2274.5	2282.6	2316.3	2338.3	2329.1
7.5°	2272.1	2309.3	2301.2	2268.6	2247.7
10°	2267.5	2323.2	2246.6	2268.6	2266.3
12.5°	2261.7	2302.3	2244.3	2322.1	2317.4
15°	2253.5	2254.7	2275.6	2356.9	2367.4
17.5°	2246.6	2224.5	2309.3	2418.5	2448.7
20°	2239.6	2215.2	2345.3	2470.8	2458.0
22.5°	2236.1	2223.3	2398.7	2431.3	2360.4
25°	2230.3	2245.4	2419.7	2301.2	2179.2
27.5°	2225.7	2271.0	2355.8	2079.3	1949.2
30°	2226.8	2307.0	2217.5	1819.1	1655.3
32.5°	2230.3	2341.8	1977.1	1470.6	1301.0
35°	2241.9	2347.6	1662.3	1130.3	985.1
37.5°	2267.5	2283.7	1319.6	894.4	863.1
40°	2303.5	2090.9	1001.3	835.2	866.6
42.5°	2361.6	1766.8	809.7	844.5	891.0
45°	2424.3	1414.9	734.1	846.8	872.4
47.5°	2477.7	1044.3	719.0	815.5	834.0
50°	2488.2	786.4	690.0	765.5	777.1
52.5°	2409.2	621.5	643.5	699.3	720.2
55°	2232.6	520.4	573.8	623.8	623.8
57.5°	1966.6	441.4	482.1	529.7	525.1
60°	1600.7	363.6	384.5	413.5	406.6
62.5°	1259.2	291.6	298.5	329.9	334.5
65°	915.4	238.1	249.7	281.1	281.1
67.5°	642.4	203.3	225.4	254.4	256.7
70°	437.9	183.5	214.9	238.1	239.3
72.5°	298.5	169.6	204.4	217.2	213.7
75°	189.3	156.8	192.8	194.0	189.3
77.5°	123.1	142.9	181.2	171.9	168.4
80°	75.5	128.9	166.1	154.5	148.7
82.5°	43.0	115.0	154.5	146.4	140.6
85°	20.9	102.2	144.0	139.4	132.4
87.5°	8.1	90.6	132.4	125.5	118.5
90°	0.0	79.0	119.6	110.4	102.2
92.5°	0.0	69.7	106.9	95.3	88.3
95°	0.0	61.6	95.3	83.6	76.7
97.5°	0.0	54.6	84.8	74.3	66.2
100°	0.0	48.8	76.7	66.2	60.4
102.5°	0.0	43.0	68.5	61.6	58.1
105°	0.0	37.2	62.7	58.1	54.6
107.5°	0.0	32.5	56.9	55.8	53.4
110°	0.0	29.0	53.4	54.6	55.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	25.6	48.8	55.8	56.9
115°	1.2	22.1	45.3	54.6	53.4
117.5°	1.2	18.6	40.7	48.8	46.5
120°	1.2	16.3	37.2	44.1	40.7
122.5°	1.2	13.9	32.5	38.3	36.0
125°	1.2	11.6	29.0	34.8	31.4
127.5°	1.2	10.5	25.6	30.2	27.9
130°	1.2	9.3	22.1	26.7	24.4
132.5°	1.2	7.0	19.7	23.2	19.7
135°	1.2	5.8	16.3	19.7	16.3
137.5°	1.2	4.6	13.9	16.3	13.9
140°	1.2	3.5	11.6	13.9	11.6
142.5°	1.2	3.5	9.3	12.8	9.3
145°	1.2	2.3	8.1	10.5	8.1
147.5°	1.2	2.3	7.0	9.3	7.0
150°	1.2	2.3	5.8	8.1	4.6
152.5°	1.2	1.2	4.6	7.0	3.5
155°	1.2	1.2	3.5	4.6	2.3
157.5°	1.2	1.2	3.5	3.5	2.3
160°	1.2	1.2	3.5	3.5	1.2
162.5°	1.2	1.2	2.3	2.3	0.0
165°	1.2	2.3	2.3	2.3	0.0
167.5°	1.2	2.3	2.3	2.3	0.0
170°	1.2	2.3	2.3	2.3	0.0
172.5°	1.2	2.3	2.3	2.3	0.0
175°	2.3	2.3	2.3	2.3	0.0
177.5°	2.3	2.3	2.3	2.3	0.0
180°	1.2	1.2	1.2	1.2	1.2

(END OF REPORT)