

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-LD5-50SL-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-LD5-50SL-LC-UNV-L840-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

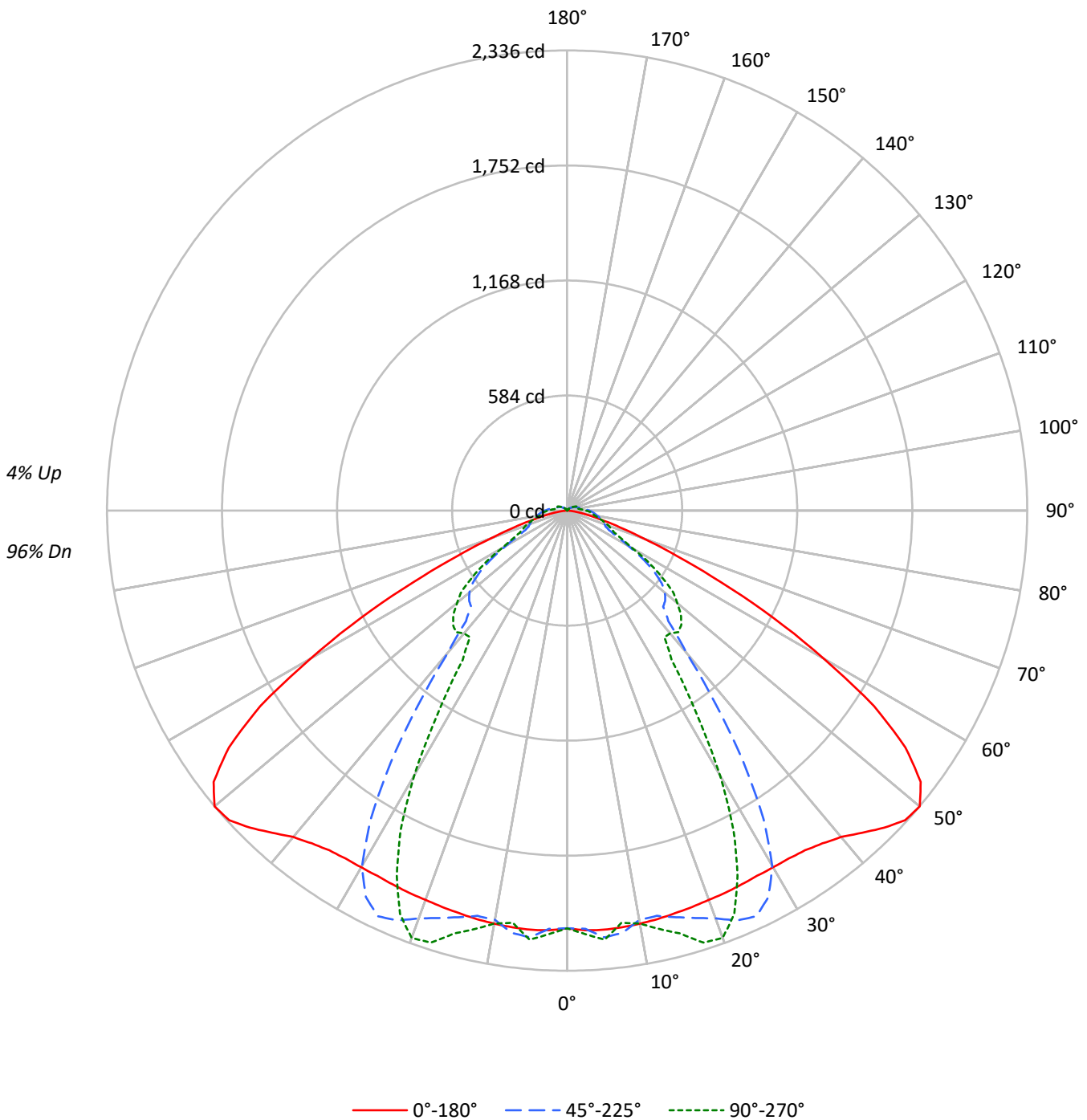
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5114.0 lumens  
Efficiency: N/A  
Efficacy: 139.3 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): 36.7  
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

TEST NUMBER: P#  
CATALOG NUMBER: 4SRL-LD5-50SL-LC-UNV-L840-CD1-U

### 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	96				
1	109	105	101	97	106	102	99	95	97	94	92	93	90	88	89	87	85	83				
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	72				
3	93	83	76	70	90	81	75	69	78	72	67	75	70	66	72	68	64	62				
4	86	75	67	61	83	73	66	60	70	64	59	68	62	58	65	60	57	54				
5	79	67	59	53	77	66	59	53	64	57	52	61	56	51	59	54	50	48				
6	74	61	53	47	72	60	52	47	58	51	46	56	50	46	54	49	45	43				
7	69	56	48	42	67	55	47	42	53	46	41	52	45	41	50	45	40	38				
8	64	51	43	38	62	51	43	38	49	42	37	48	41	37	46	41	37	35				
9	60	47	40	35	58	47	39	34	45	39	34	44	38	34	43	37	33	32				
10	56	44	36	32	55	43	36	31	42	36	31	41	35	31	40	34	31	29				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	24900	24900	24900
5°	25076	24557	24359
10°	25187	23103	22707
15°	25416	22889	22929
20°	25853	23257	23210
25°	26571	23841	20226
30°	27628	21875	15218
35°	29248	16543	9040
40°	31939	10132	7998
45°	36161	7614	8162
50°	40490	7397	7428
55°	40304	6417	6143
60°	32724	4530	4161
65°	21763	3133	3019
70°	12550	2907	2724
75°	6897	2854	2313
80°	3812	2736	1975
85°	1738	2698	1944



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.0	4.0
10°-20°	614.8	12.0
20°-30°	978.5	19.1
30°-40°	997.2	19.5
40°-50°	842.2	16.5
50°-60°	649.2	12.7
60°-70°	335.4	6.6
70°-80°	185.3	3.6
80°-90°	117.9	2.3
90°-100°	72.6	1.4
100°-110°	46.8	0.9
110°-120°	34.0	0.7
120°-130°	19.6	0.4
130°-140°	9.5	0.2
140°-150°	4.0	0.1
150°-160°	1.4	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	1798.3	35.2
0°-40°	2795.5	54.7
0°-60°	4287.0	83.8
0°-90°	4925.6	96.3
90°-120°	153.3	3.0
90°-150°	186.3	3.6
90°-180°	188.0	3.7
0°-180°	5114.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2120	2120	2120	2120	2120	
5°	2136	2143	2175	2196	2187	204
15°	2116	2117	2137	2213	2223	600
25°	2094	2108	2272	2161	2046	970
35°	2105	2204	1561	1061	925	1329
45°	2276	1329	689	795	819	1758
55°	2096	489	539	586	586	1815
65°	860	224	234	264	264	887
75°	178	147	181	182	178	214
85°	20	96	135	131	124	27
90°	0	74	112	104	96	1
95°	0	58	89	78	72	0
105°	0	35	59	54	51	0
115°	1	21	42	51	50	1
125°	1	11	27	33	30	1
135°	1	6	15	18	15	1
145°	1	2	8	10	8	1
155°	1	1	3	4	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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CATALOG NUMBER: 4SRL-LD5-50SL-LC-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2120.5	2120.5	2120.5	2120.5	2120.5
2.5°	2132.5	2124.9	2124.9	2152.2	2152.2
5°	2135.8	2143.4	2175.1	2195.8	2187.1
7.5°	2133.6	2168.5	2160.9	2130.3	2110.7
10°	2129.3	2181.6	2109.6	2130.3	2128.2
12.5°	2123.8	2162.0	2107.4	2180.5	2176.2
15°	2116.2	2117.3	2136.9	2213.2	2223.1
17.5°	2109.6	2088.9	2168.5	2271.1	2299.4
20°	2103.1	2080.2	2202.3	2320.1	2308.1
22.5°	2099.8	2087.8	2252.5	2283.1	2216.5
25°	2094.3	2108.5	2272.2	2160.9	2046.4
27.5°	2090.0	2132.5	2212.2	1952.5	1830.4
30°	2091.1	2166.3	2082.4	1708.2	1554.4
32.5°	2094.3	2199.1	1856.6	1381.0	1221.7
35°	2105.3	2204.5	1560.9	1061.4	925.0
37.5°	2129.3	2144.5	1239.2	839.9	810.5
40°	2163.1	1963.5	940.3	784.3	813.7
42.5°	2217.6	1659.1	760.3	793.0	836.6
45°	2276.5	1328.6	689.4	795.2	819.2
47.5°	2326.7	980.6	675.2	765.7	783.2
50°	2336.5	738.5	647.9	718.8	729.7
52.5°	2262.3	583.6	604.3	656.7	676.3
55°	2096.5	488.7	538.9	585.8	585.8
57.5°	1846.7	414.5	452.7	497.4	493.0
60°	1503.1	341.4	361.1	388.3	381.8
62.5°	1182.4	273.8	280.3	309.8	314.2
65°	859.6	223.6	234.5	264.0	264.0
67.5°	603.2	190.9	211.6	238.9	241.1
70°	411.2	172.3	201.8	223.6	224.7
72.5°	280.3	159.3	192.0	204.0	200.7
75°	177.8	147.3	181.1	182.2	177.8
77.5°	115.6	134.2	170.2	161.4	158.2
80°	70.9	121.1	156.0	145.1	139.6
82.5°	40.4	108.0	145.1	137.4	132.0
85°	19.6	96.0	135.3	130.9	124.4
87.5°	7.6	85.1	124.4	117.8	111.3
90°	0.0	74.2	112.4	103.6	96.0
92.5°	0.0	65.4	100.4	89.4	82.9
95°	0.0	57.8	89.4	78.5	72.0
97.5°	0.0	51.3	79.6	69.8	62.2
100°	0.0	45.8	72.0	62.2	56.7
102.5°	0.0	40.4	64.4	57.8	54.5
105°	0.0	34.9	58.9	54.5	51.3
107.5°	0.0	30.5	53.4	52.4	50.2
110°	0.0	27.3	50.2	51.3	52.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	24.0	45.8	52.4	53.4
115°	1.1	20.7	42.5	51.3	50.2
117.5°	1.1	17.5	38.2	45.8	43.6
120°	1.1	15.3	34.9	41.5	38.2
122.5°	1.1	13.1	30.5	36.0	33.8
125°	1.1	10.9	27.3	32.7	29.5
127.5°	1.1	9.8	24.0	28.4	26.2
130°	1.1	8.7	20.7	25.1	22.9
132.5°	1.1	6.5	18.5	21.8	18.5
135°	1.1	5.5	15.3	18.5	15.3
137.5°	1.1	4.4	13.1	15.3	13.1
140°	1.1	3.3	10.9	13.1	10.9
142.5°	1.1	3.3	8.7	12.0	8.7
145°	1.1	2.2	7.6	9.8	7.6
147.5°	1.1	2.2	6.5	8.7	6.5
150°	1.1	2.2	5.5	7.6	4.4
152.5°	1.1	1.1	4.4	6.5	3.3
155°	1.1	1.1	3.3	4.4	2.2
157.5°	1.1	1.1	3.3	3.3	2.2
160°	1.1	1.1	3.3	3.3	1.1
162.5°	1.1	1.1	2.2	2.2	0.0
165°	1.1	2.2	2.2	2.2	0.0
167.5°	1.1	2.2	2.2	2.2	0.0
170°	1.1	2.2	2.2	2.2	0.0
172.5°	1.1	2.2	2.2	2.2	0.0
175°	2.2	2.2	2.2	2.2	0.0
177.5°	2.2	2.2	2.2	2.2	0.0
180°	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)