

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-LD5-49SL-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: 4SRL-LD5-49SL-LN-UNV-L850-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

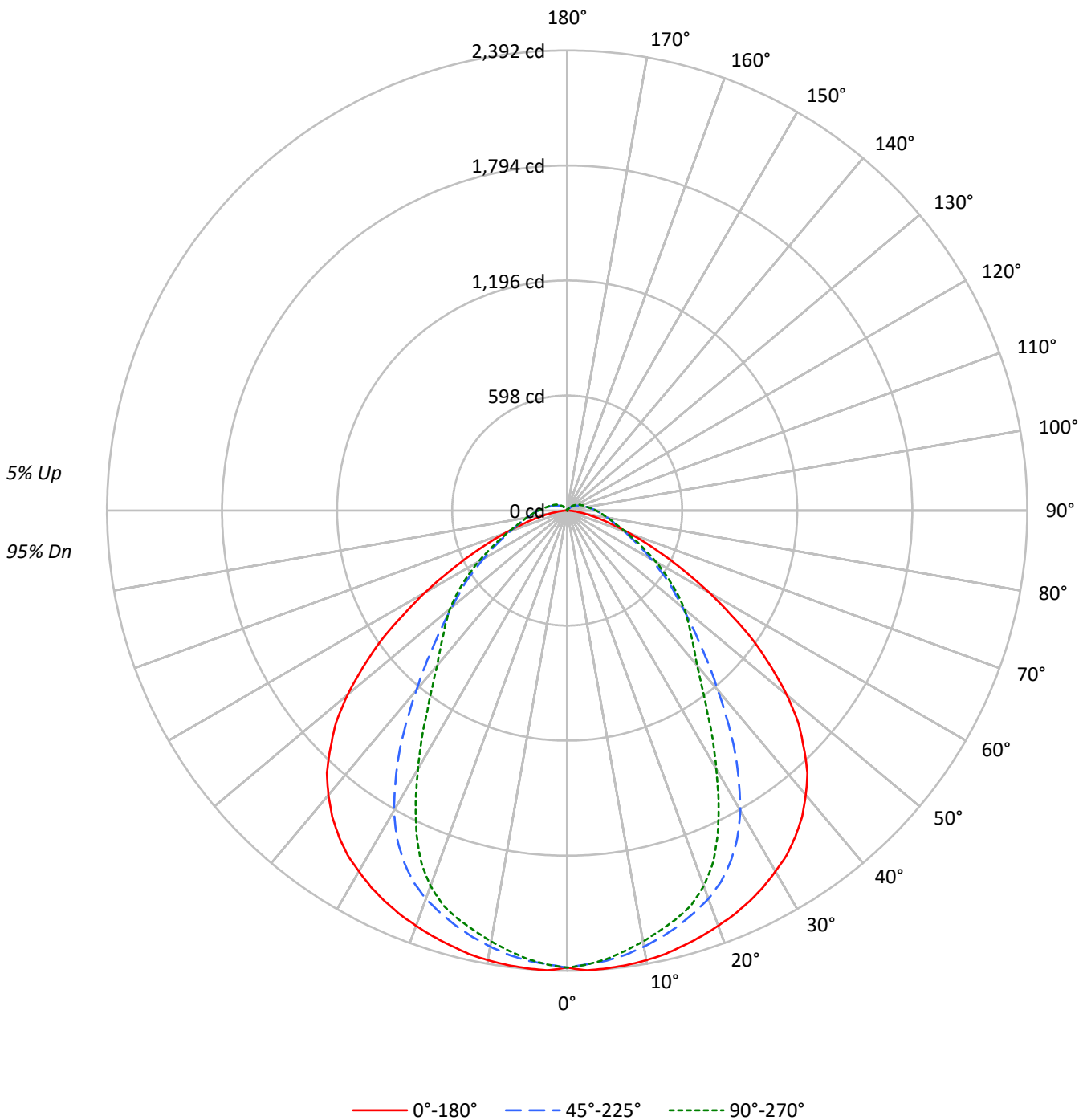
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5432.0 lumens  
Efficiency: N/A  
Efficacy: 148.0 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.04 / 1.14  
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 (A<sub>in</sub>): 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				
1	108	104	100	96	105	101	97	94	96	93	90	91	89	86	87	85	83	80				
2	99	92	85	80	96	89	83	79	85	80	76	81	77	74	77	74	71	69				
3	91	82	74	68	88	80	73	67	76	70	65	73	68	63	69	65	62	59				
4	84	73	65	59	82	71	64	58	68	62	57	65	60	55	63	58	54	52				
5	78	66	58	51	76	65	57	51	62	55	50	59	54	49	57	52	48	46				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	44	52	47	43	41				
7	67	55	46	41	65	54	46	40	52	45	40	50	44	39	48	43	38	37				
8	63	50	42	37	61	49	42	36	48	41	36	46	40	35	44	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	33	43	37	32	41	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				

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

	0°	45°	90°
0°	27898	27898	27898
5°	28046	26517	26067
10°	28076	25203	24264
15°	28109	23929	22664
20°	28233	22681	20884
25°	28434	21109	18318
30°	28610	18924	15171
35°	28737	16085	12371
40°	28500	13119	10317
45°	27618	10744	9069
50°	25829	8920	8098
55°	22814	7615	6954
60°	18579	6316	5810
65°	14274	5290	4758
70°	10426	4529	3942
75°	7288	4004	3352
80°	4892	3711	2993
85°	2828	3536	2790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.8	4.1
10°-20°	635.7	11.7
20°-30°	928.9	17.1
30°-40°	992.1	18.3
40°-50°	874.3	16.1
50°-60°	663.8	12.2
60°-70°	423.2	7.8
70°-80°	252.4	4.6
80°-90°	158.6	2.9
90°-100°	105.0	1.9
100°-110°	71.3	1.3
110°-120°	48.0	0.9
120°-130°	29.6	0.5
130°-140°	15.7	0.3
140°-150°	6.8	0.1
150°-160°	2.2	0.0
160°-170°	0.5	0.0
170°-180°	0.1	0.0
0°-30°	1788.4	32.9
0°-40°	2780.5	51.2
0°-60°	4318.6	79.5
0°-90°	5152.9	94.9
90°-120°	224.3	4.1
90°-150°	276.4	5.1
90°-180°	279.0	5.1
0°-180°	5432.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2376	2376	2376	2376	2376	
5°	2389	2371	2349	2356	2340	227
15°	2340	2297	2234	2219	2197	662
25°	2241	2141	2012	1915	1853	1034
35°	2068	1844	1518	1327	1266	1292
45°	1739	1308	973	916	910	1337
55°	1187	742	640	662	663	1050
65°	564	382	396	420	416	569
75°	188	194	254	266	258	209
85°	32	105	177	187	178	39
90°	1	79	150	157	150	2
95°	0	60	125	132	125	0
105°	0	38	88	96	92	0
115°	0	24	60	72	71	0
125°	1	15	40	51	50	1
135°	1	8	25	31	30	1
145°	1	4	13	16	15	1
155°	1	2	5	7	5	1
165°	1	2	2	0	0	0
175°	2	2	2	0	0	0
180°	1	1	1	1	1	



TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-49SL-LN-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2375.8	2375.8	2375.8	2375.8	2375.8
2.5°	2392.4	2378.2	2360.5	2372.3	2362.8
5°	2388.8	2371.1	2348.7	2355.8	2340.4
7.5°	2382.9	2360.5	2328.6	2326.2	2308.5
10°	2373.5	2343.9	2301.4	2293.1	2274.2
12.5°	2360.5	2323.8	2270.6	2257.6	2235.2
15°	2340.4	2296.7	2234.0	2218.6	2197.4
17.5°	2320.3	2265.9	2192.6	2173.7	2148.9
20°	2296.7	2230.5	2147.7	2107.5	2076.8
22.5°	2271.8	2190.3	2088.6	2021.2	1981.1
25°	2241.1	2140.6	2011.8	1914.9	1853.4
27.5°	2206.8	2088.6	1917.2	1777.7	1704.5
30°	2165.4	2018.9	1801.4	1626.5	1549.6
32.5°	2124.1	1943.2	1659.5	1477.5	1407.8
35°	2068.5	1843.9	1517.7	1327.4	1265.9
37.5°	2005.9	1732.8	1362.9	1193.8	1148.9
40°	1930.2	1602.8	1217.5	1082.7	1049.6
42.5°	1848.7	1459.8	1091.0	992.9	975.2
45°	1738.7	1308.5	972.8	916.1	910.2
47.5°	1630.0	1157.2	872.3	848.7	852.2
50°	1490.5	1007.1	781.3	789.6	795.5
52.5°	1336.9	868.8	706.8	724.6	729.3
55°	1186.7	742.3	639.5	661.9	663.1
57.5°	1011.8	631.2	566.2	600.5	596.9
60°	853.4	533.1	503.5	530.7	533.1
62.5°	697.4	452.7	448.0	471.6	470.4
65°	563.8	381.8	396.0	419.6	416.1
67.5°	448.0	319.1	352.2	372.3	364.1
70°	341.6	270.7	314.4	329.8	325.1
72.5°	256.5	229.3	281.3	295.5	287.2
75°	187.9	193.9	254.1	266.0	257.7
77.5°	134.7	166.7	232.9	239.9	234.0
80°	91.0	141.8	211.6	221.0	211.6
82.5°	57.9	121.7	193.9	202.1	193.9
85°	31.9	105.2	177.3	186.8	178.5
87.5°	14.2	91.0	163.1	171.4	164.3
90°	1.2	79.2	150.1	157.2	150.1
92.5°	0.0	68.6	137.1	145.4	138.3
95°	0.0	60.3	125.3	132.4	125.3
97.5°	0.0	53.2	114.7	121.7	115.8
100°	0.0	47.3	105.2	112.3	106.4
102.5°	0.0	41.4	95.7	104.0	99.3
105°	0.0	37.8	87.5	95.7	92.2
107.5°	0.0	33.1	80.4	89.8	87.5
110°	0.0	29.6	73.3	83.9	81.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	27.2	66.2	78.0	75.6
115°	0.0	23.6	60.3	72.1	70.9
117.5°	0.0	21.3	55.6	66.2	66.2
120°	1.2	18.9	50.8	61.5	60.3
122.5°	1.2	16.5	44.9	55.6	54.4
125°	1.2	15.4	40.2	50.8	49.6
127.5°	1.2	13.0	36.6	44.9	43.7
130°	1.2	11.8	31.9	40.2	39.0
132.5°	1.2	9.5	28.4	35.5	34.3
135°	1.2	8.3	24.8	30.7	29.6
137.5°	1.2	7.1	21.3	27.2	26.0
140°	1.2	5.9	18.9	23.6	22.5
142.5°	1.2	4.7	15.4	20.1	18.9
145°	1.2	3.5	13.0	16.5	15.4
147.5°	1.2	2.4	10.6	14.2	13.0
150°	1.2	2.4	8.3	11.8	10.6
152.5°	1.2	2.4	7.1	9.5	7.1
155°	1.2	2.4	4.7	7.1	4.7
157.5°	1.2	2.4	3.5	4.7	3.5
160°	1.2	2.4	3.5	3.5	1.2
162.5°	1.2	2.4	2.4	1.2	0.0
165°	1.2	2.4	2.4	0.0	0.0
167.5°	1.2	2.4	2.4	0.0	0.0
170°	1.2	2.4	2.4	0.0	0.0
172.5°	1.2	2.4	2.4	0.0	0.0
175°	2.4	2.4	2.4	0.0	0.0
177.5°	1.2	2.4	1.2	0.0	0.0
180°	1.2	1.2	1.2	1.2	1.2

(END OF REPORT)