

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-LD5-41SL-LN-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 (P35658)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SRL-LD5-41SL-LN-UNV-L840-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

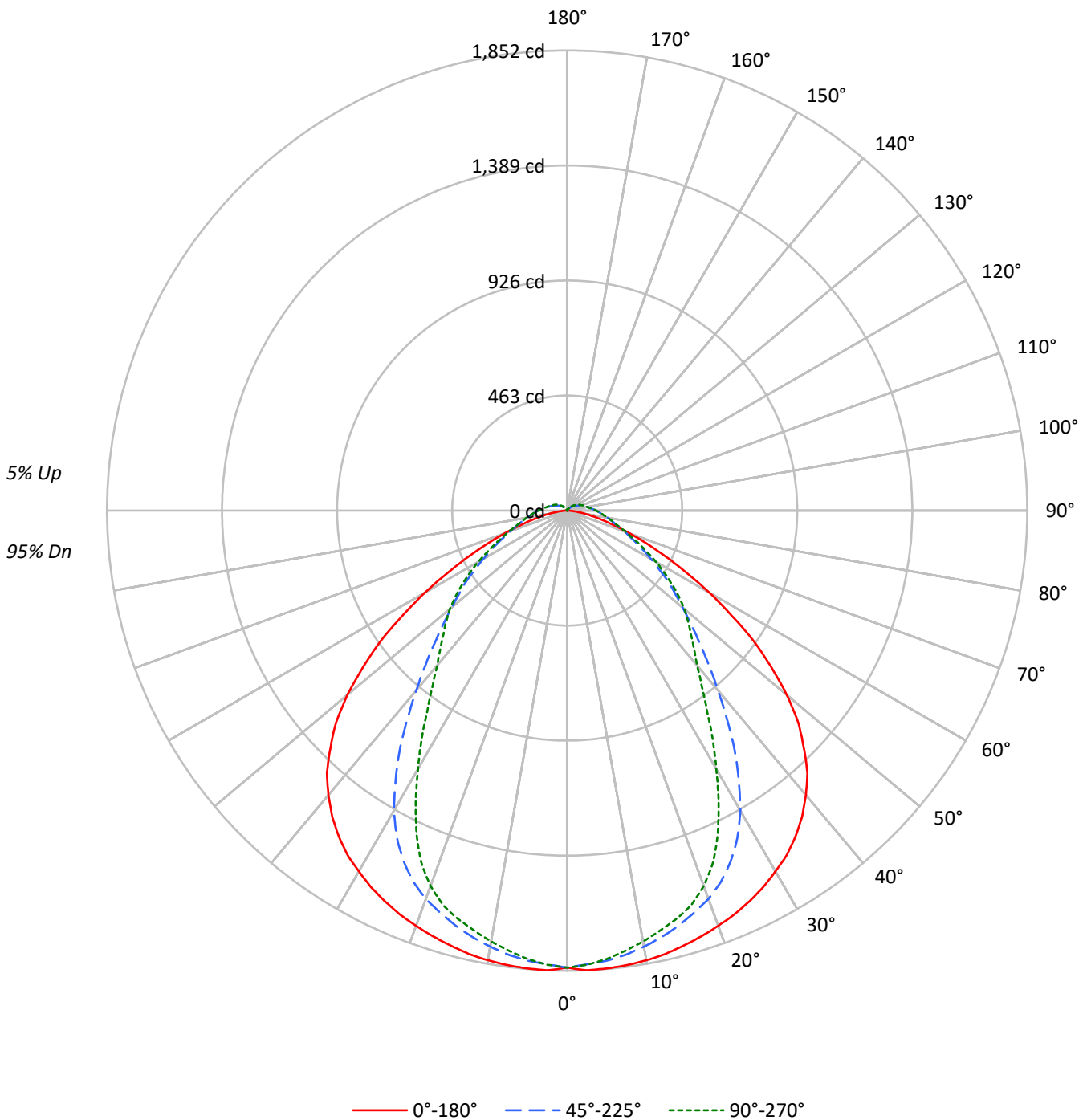
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4206.0 lumens  
Efficiency: N/A  
Efficacy: 142.1 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): 29.6  
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	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°	21601	21601	21601
5°	21717	20532	20184
10°	21739	19515	18788
15°	21765	18529	17549
20°	21860	17562	16171
25°	22016	16344	14184
30°	22153	14652	11748
35°	22252	12455	9579
40°	22069	10158	7989
45°	21385	8319	7021
50°	20000	6907	6271
55°	17665	5896	5384
60°	14386	4891	4499
65°	11053	4096	3685
70°	8073	3507	3052
75°	5644	3101	2595
80°	3790	2873	2317
85°	2190	2738	2160



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.3	4.1
10°-20°	492.3	11.7
20°-30°	719.2	17.1
30°-40°	768.2	18.3
40°-50°	676.9	16.1
50°-60°	514.0	12.2
60°-70°	327.7	7.8
70°-80°	195.5	4.6
80°-90°	122.8	2.9
90°-100°	81.3	1.9
100°-110°	55.2	1.3
110°-120°	37.2	0.9
120°-130°	23.0	0.5
130°-140°	12.1	0.3
140°-150°	5.2	0.1
150°-160°	1.7	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	1384.8	32.9
0°-40°	2153.0	51.2
0°-60°	3343.9	79.5
0°-90°	3989.9	94.9
90°-120°	173.7	4.1
90°-150°	214.0	5.1
90°-180°	216.0	5.1
0°-180°	4206.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1840	1840	1840	1840	1840	
5°	1850	1836	1819	1824	1812	176
15°	1812	1778	1730	1718	1701	513
25°	1735	1658	1558	1483	1435	801
35°	1602	1428	1175	1028	980	1001
45°	1346	1013	753	709	705	1035
55°	919	575	495	512	513	813
65°	437	296	307	325	322	441
75°	146	150	197	206	200	162
85°	25	82	137	145	138	30
90°	1	61	116	122	116	2
95°	0	47	97	102	97	0
105°	0	29	68	74	71	0
115°	0	18	47	56	55	0
125°	1	12	31	39	38	1
135°	1	6	19	24	23	1
145°	1	3	10	13	12	1
155°	1	2	4	6	4	0
165°	1	2	2	0	0	0
175°	2	2	2	0	0	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1839.6	1839.6	1839.6	1839.6	1839.6
2.5°	1852.4	1841.5	1827.7	1836.9	1829.6
5°	1849.7	1836.0	1818.6	1824.1	1812.2
7.5°	1845.1	1827.7	1803.0	1801.2	1787.5
10°	1837.8	1814.9	1782.0	1775.6	1760.9
12.5°	1827.7	1799.3	1758.2	1748.1	1730.7
15°	1812.2	1778.3	1729.8	1717.9	1701.4
17.5°	1796.6	1754.5	1697.8	1683.1	1663.9
20°	1778.3	1727.0	1663.0	1631.9	1608.1
22.5°	1759.1	1695.9	1617.2	1565.0	1533.9
25°	1735.3	1657.5	1557.7	1482.7	1435.1
27.5°	1708.7	1617.2	1484.5	1376.5	1319.8
30°	1676.7	1563.2	1394.8	1259.4	1199.9
32.5°	1644.7	1504.6	1285.0	1144.0	1090.0
35°	1601.7	1427.8	1175.2	1027.8	980.2
37.5°	1553.2	1341.7	1055.3	924.4	889.6
40°	1494.6	1241.1	942.7	838.4	812.7
42.5°	1431.4	1130.3	844.8	768.8	755.1
45°	1346.3	1013.2	753.2	709.3	704.7
47.5°	1262.1	896.0	675.4	657.1	659.9
50°	1154.1	779.8	605.0	611.4	616.0
52.5°	1035.1	672.7	547.3	561.0	564.7
55°	918.9	574.8	495.1	512.5	513.4
57.5°	783.4	488.7	438.4	464.9	462.2
60°	660.8	412.8	389.9	410.9	412.8
62.5°	540.0	350.5	346.9	365.2	364.3
65°	436.6	295.6	306.6	324.9	322.2
67.5°	346.9	247.1	272.7	288.3	281.9
70°	264.5	209.6	243.5	255.4	251.7
72.5°	198.6	177.6	217.8	228.8	222.4
75°	145.5	150.1	196.8	205.9	199.5
77.5°	104.3	129.0	180.3	185.8	181.2
80°	70.5	109.8	163.8	171.1	163.8
82.5°	44.8	94.3	150.1	156.5	150.1
85°	24.7	81.5	137.3	144.6	138.2
87.5°	11.0	70.5	126.3	132.7	127.2
90°	0.9	61.3	116.2	121.7	116.2
92.5°	0.0	53.1	106.2	112.6	107.1
95°	0.0	46.7	97.0	102.5	97.0
97.5°	0.0	41.2	88.8	94.3	89.7
100°	0.0	36.6	81.5	86.9	82.4
102.5°	0.0	32.0	74.1	80.5	76.9
105°	0.0	29.3	67.7	74.1	71.4
107.5°	0.0	25.6	62.2	69.6	67.7
110°	0.0	22.9	56.7	65.0	63.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	21.1	51.3	60.4	58.6
115°	0.0	18.3	46.7	55.8	54.9
117.5°	0.0	16.5	43.0	51.3	51.3
120°	0.9	14.6	39.4	47.6	46.7
122.5°	0.9	12.8	34.8	43.0	42.1
125°	0.9	11.9	31.1	39.4	38.4
127.5°	0.9	10.1	28.4	34.8	33.9
130°	0.9	9.2	24.7	31.1	30.2
132.5°	0.9	7.3	22.0	27.5	26.5
135°	0.9	6.4	19.2	23.8	22.9
137.5°	0.9	5.5	16.5	21.1	20.1
140°	0.9	4.6	14.6	18.3	17.4
142.5°	0.9	3.7	11.9	15.6	14.6
145°	0.9	2.7	10.1	12.8	11.9
147.5°	0.9	1.8	8.2	11.0	10.1
150°	0.9	1.8	6.4	9.2	8.2
152.5°	0.9	1.8	5.5	7.3	5.5
155°	0.9	1.8	3.7	5.5	3.7
157.5°	0.9	1.8	2.7	3.7	2.7
160°	0.9	1.8	2.7	2.7	0.9
162.5°	0.9	1.8	1.8	0.9	0.0
165°	0.9	1.8	1.8	0.0	0.0
167.5°	0.9	1.8	1.8	0.0	0.0
170°	0.9	1.8	1.8	0.0	0.0
172.5°	0.9	1.8	1.8	0.0	0.0
175°	1.8	1.8	1.8	0.0	0.0
177.5°	0.9	1.8	0.9	0.0	0.0
180°	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)