

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-LD5-47SL-LC-UNV-L830-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-LD5-47SL-LC-UNV-L830-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

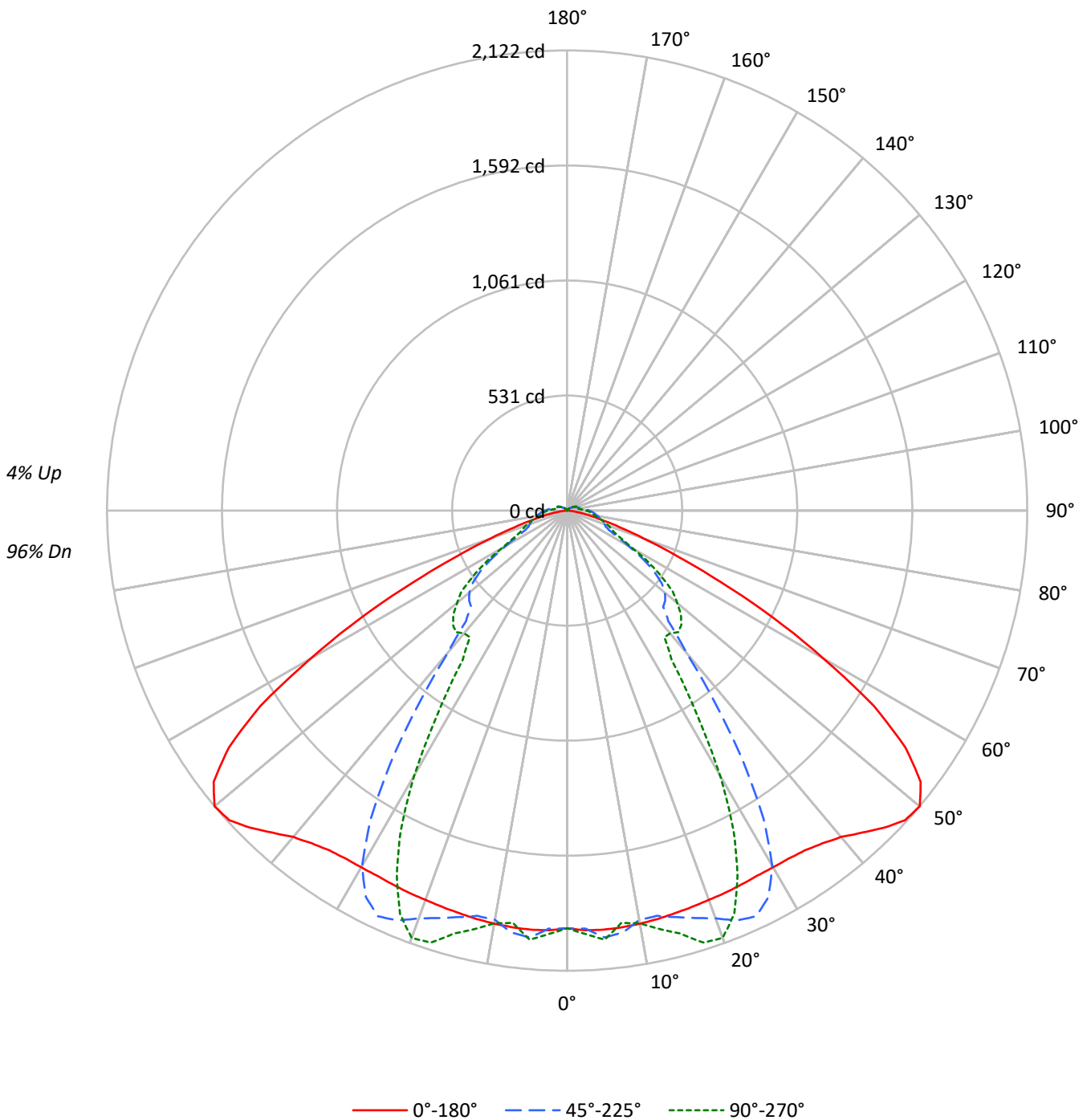
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4645.0 lumens  
Efficiency: N/A  
Efficacy: 137.8 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): 33.7  
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

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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°	22617	22617	22617
5°	22776	22304	22125
10°	22877	20984	20624
15°	23085	20790	20826
20°	23481	21125	21082
25°	24135	21655	18371
30°	25094	19869	13822
35°	26566	15026	8211
40°	29010	9202	7265
45°	32844	6916	7414
50°	36776	6719	6747
55°	36609	5828	5579
60°	29724	4113	3780
65°	19765	2845	2742
70°	11400	2640	2475
75°	6264	2592	2101
80°	3462	2485	1793
85°	1578	2451	1765



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.2	4.0
10°-20°	558.4	12.0
20°-30°	888.8	19.1
30°-40°	905.8	19.5
40°-50°	765.0	16.5
50°-60°	589.7	12.7
60°-70°	304.6	6.6
70°-80°	168.3	3.6
80°-90°	107.1	2.3
90°-100°	65.9	1.4
100°-110°	42.5	0.9
110°-120°	30.8	0.7
120°-130°	17.8	0.4
130°-140°	8.6	0.2
140°-150°	3.6	0.1
150°-160°	1.3	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	1633.4	35.2
0°-40°	2539.2	54.7
0°-60°	3893.8	83.8
0°-90°	4473.9	96.3
90°-120°	139.2	3.0
90°-150°	169.3	3.6
90°-180°	171.0	3.7
0°-180°	4645.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1940	1947	1976	1994	1986	185
15°	1922	1923	1941	2010	2019	545
25°	1902	1915	2064	1963	1859	881
35°	1912	2002	1418	964	840	1207
45°	2068	1207	626	722	744	1597
55°	1904	444	489	532	532	1649
65°	781	203	213	240	240	806
75°	162	134	164	166	162	195
85°	18	87	123	119	113	25
90°	0	67	102	94	87	1
95°	0	52	81	71	65	0
105°	0	32	54	50	47	0
115°	1	19	39	47	46	1
125°	1	10	25	30	27	1
135°	1	5	14	17	14	1
145°	1	2	7	9	7	1
155°	1	1	3	4	2	0
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°	1926.1	1926.1	1926.1	1926.1	1926.1
2.5°	1937.0	1930.0	1930.0	1954.8	1954.8
5°	1939.9	1946.9	1975.6	1994.4	1986.5
7.5°	1937.9	1969.7	1962.7	1935.0	1917.1
10°	1934.0	1981.5	1916.1	1935.0	1933.0
12.5°	1929.0	1963.7	1914.2	1980.5	1976.6
15°	1922.1	1923.1	1940.9	2010.3	2019.2
17.5°	1916.1	1897.3	1969.7	2062.8	2088.5
20°	1910.2	1889.4	2000.4	2107.4	2096.5
22.5°	1907.2	1896.3	2045.9	2073.7	2013.2
25°	1902.3	1915.2	2063.8	1962.7	1858.7
27.5°	1898.3	1937.0	2009.3	1773.5	1662.5
30°	1899.3	1967.7	1891.4	1551.5	1411.8
32.5°	1902.3	1997.4	1686.3	1254.3	1109.7
35°	1912.2	2002.3	1417.8	964.0	840.2
37.5°	1934.0	1947.9	1125.5	762.9	736.1
40°	1964.7	1783.4	854.0	712.4	739.1
42.5°	2014.2	1507.0	690.6	720.3	759.9
45°	2067.7	1206.8	626.2	722.3	744.1
47.5°	2113.3	890.7	613.3	695.5	711.4
50°	2122.2	670.8	588.5	652.9	662.8
52.5°	2054.9	530.1	548.9	596.4	614.3
55°	1904.3	443.9	489.4	532.0	532.0
57.5°	1677.4	376.5	411.2	451.8	447.8
60°	1365.3	310.1	327.9	352.7	346.8
62.5°	1074.0	248.7	254.6	281.4	285.3
65°	780.7	203.1	213.0	239.8	239.8
67.5°	547.9	173.4	192.2	217.0	219.0
70°	373.5	156.5	183.3	203.1	204.1
72.5°	254.6	144.7	174.4	185.3	182.3
75°	161.5	133.8	164.5	165.5	161.5
77.5°	105.0	121.9	154.6	146.6	143.7
80°	64.4	110.0	141.7	131.8	126.8
82.5°	36.7	98.1	131.8	124.8	119.9
85°	17.8	87.2	122.9	118.9	112.9
87.5°	6.9	77.3	112.9	107.0	101.1
90°	0.0	67.4	102.0	94.1	87.2
92.5°	0.0	59.4	91.2	81.2	75.3
95°	0.0	52.5	81.2	71.3	65.4
97.5°	0.0	46.6	72.3	63.4	56.5
100°	0.0	41.6	65.4	56.5	51.5
102.5°	0.0	36.7	58.5	52.5	49.5
105°	0.0	31.7	53.5	49.5	46.6
107.5°	0.0	27.7	48.5	47.6	45.6
110°	0.0	24.8	45.6	46.6	47.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	21.8	41.6	47.6	48.5
115°	1.0	18.8	38.6	46.6	45.6
117.5°	1.0	15.9	34.7	41.6	39.6
120°	1.0	13.9	31.7	37.6	34.7
122.5°	1.0	11.9	27.7	32.7	30.7
125°	1.0	9.9	24.8	29.7	26.8
127.5°	1.0	8.9	21.8	25.8	23.8
130°	1.0	7.9	18.8	22.8	20.8
132.5°	1.0	5.9	16.8	19.8	16.8
135°	1.0	5.0	13.9	16.8	13.9
137.5°	1.0	4.0	11.9	13.9	11.9
140°	1.0	3.0	9.9	11.9	9.9
142.5°	1.0	3.0	7.9	10.9	7.9
145°	1.0	2.0	6.9	8.9	6.9
147.5°	1.0	2.0	5.9	7.9	5.9
150°	1.0	2.0	5.0	6.9	4.0
152.5°	1.0	1.0	4.0	5.9	3.0
155°	1.0	1.0	3.0	4.0	2.0
157.5°	1.0	1.0	3.0	3.0	2.0
160°	1.0	1.0	3.0	3.0	1.0
162.5°	1.0	1.0	2.0	2.0	0.0
165°	1.0	2.0	2.0	2.0	0.0
167.5°	1.0	2.0	2.0	2.0	0.0
170°	1.0	2.0	2.0	2.0	0.0
172.5°	1.0	2.0	2.0	2.0	0.0
175°	2.0	2.0	2.0	2.0	0.0
177.5°	2.0	2.0	2.0	2.0	0.0
180°	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)