

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-LD5-46SL-LN-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 (P35658)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SRL-LD5-46SL-LN-UNV-L830-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

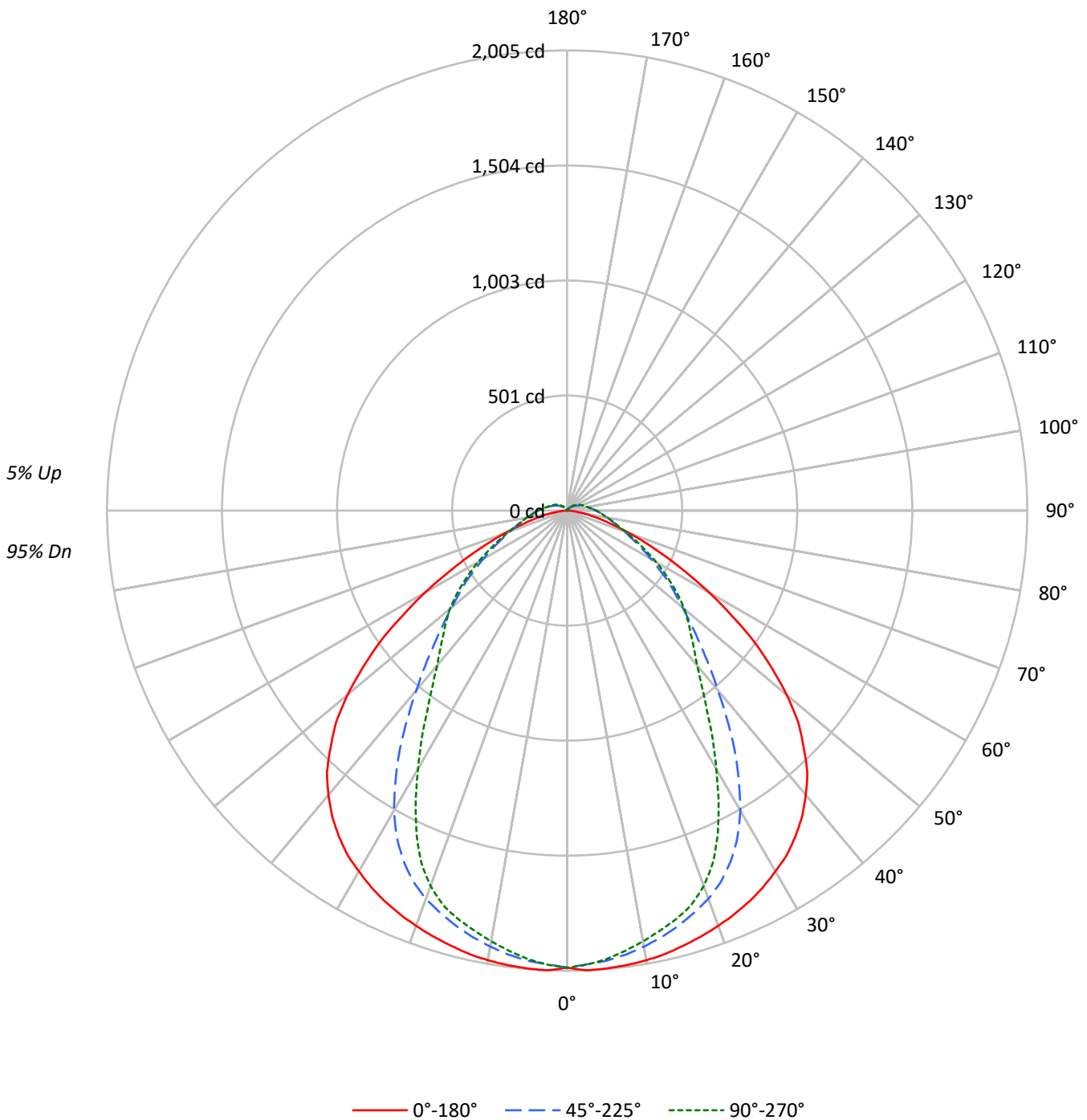
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4553.0 lumens
Efficiency: N/A
Efficacy: 135.1 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): 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	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°	23384	23384	23384
5°	23508	22225	21849
10°	23532	21125	20338
15°	23561	20057	18997
20°	23663	19011	17504
25°	23832	17693	15354
30°	23980	15861	12717
35°	24087	13482	10370
40°	23889	10997	8648
45°	23150	9006	7601
50°	21649	7477	6788
55°	19122	6383	5829
60°	15573	5295	4870
65°	11965	4434	3988
70°	8738	3796	3304
75°	6109	3356	2810
80°	4102	3109	2508
85°	2376	2964	2338



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.6	4.1
10°-20°	532.9	11.7
20°-30°	778.6	17.1
30°-40°	831.5	18.3
40°-50°	732.8	16.1
50°-60°	556.4	12.2
60°-70°	354.7	7.8
70°-80°	211.6	4.6
80°-90°	132.9	2.9
90°-100°	88.0	1.9
100°-110°	59.8	1.3
110°-120°	40.2	0.9
120°-130°	24.9	0.5
130°-140°	13.1	0.3
140°-150°	5.7	0.1
150°-160°	1.8	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	1499.0	32.9
0°-40°	2330.6	51.2
0°-60°	3619.8	79.5
0°-90°	4319.0	94.9
90°-120°	188.0	4.1
90°-150°	231.7	5.1
90°-180°	234.0	5.1
0°-180°	4553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1991	1991	1991	1991	1991	
5°	2002	1987	1969	1974	1962	191
15°	1962	1925	1872	1860	1842	555
25°	1878	1794	1686	1605	1554	867
35°	1734	1546	1272	1113	1061	1083
45°	1457	1097	815	768	763	1120
55°	995	622	536	555	556	880
65°	473	320	332	352	349	477
75°	158	162	213	223	216	176
85°	27	88	149	156	150	32
90°	1	66	126	132	126	2
95°	0	50	105	111	105	0
105°	0	32	73	80	77	0
115°	0	20	50	60	59	0
125°	1	13	34	43	42	1
135°	1	7	21	26	25	1
145°	1	3	11	14	13	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°	1991.4	1991.4	1991.4	1991.4	1991.4
2.5°	2005.3	1993.4	1978.5	1988.4	1980.5
5°	2002.3	1987.4	1968.6	1974.5	1961.7
7.5°	1997.3	1978.5	1951.8	1949.8	1934.9
10°	1989.4	1964.6	1929.0	1922.0	1906.2
12.5°	1978.5	1947.8	1903.2	1892.3	1873.5
15°	1961.7	1925.0	1872.5	1859.6	1841.8
17.5°	1944.8	1899.3	1837.8	1822.0	1801.2
20°	1925.0	1869.5	1800.2	1766.5	1740.7
22.5°	1904.2	1835.8	1750.6	1694.2	1660.5
25°	1878.4	1794.2	1686.2	1605.0	1553.5
27.5°	1849.7	1750.6	1607.0	1490.1	1428.6
30°	1815.0	1692.2	1509.9	1363.3	1298.9
32.5°	1780.4	1628.8	1391.0	1238.4	1180.0
35°	1733.8	1545.6	1272.1	1112.6	1061.1
37.5°	1681.3	1452.4	1142.3	1000.6	963.0
40°	1617.9	1343.4	1020.5	907.5	879.8
42.5°	1549.5	1223.6	914.5	832.2	817.4
45°	1457.4	1096.8	815.4	767.8	762.9
47.5°	1366.2	969.9	731.2	711.4	714.3
50°	1249.3	844.1	654.9	661.8	666.8
52.5°	1120.5	728.2	592.5	607.3	611.3
55°	994.7	622.2	536.0	554.8	555.8
57.5°	848.1	529.1	474.6	503.3	500.3
60°	715.3	446.8	422.1	444.8	446.8
62.5°	584.5	379.5	375.5	395.3	394.3
65°	472.6	320.0	331.9	351.7	348.7
67.5°	375.5	267.5	295.2	312.1	305.1
70°	286.3	226.9	263.5	276.4	272.5
72.5°	215.0	192.2	235.8	247.7	240.8
75°	157.5	162.5	213.0	222.9	216.0
77.5°	112.9	139.7	195.2	201.1	196.2
80°	76.3	118.9	177.3	185.3	177.3
82.5°	48.5	102.0	162.5	169.4	162.5
85°	26.8	88.2	148.6	156.5	149.6
87.5°	11.9	76.3	136.7	143.7	137.7
90°	1.0	66.4	125.8	131.8	125.8
92.5°	0.0	57.5	114.9	121.9	115.9
95°	0.0	50.5	105.0	111.0	105.0
97.5°	0.0	44.6	96.1	102.0	97.1
100°	0.0	39.6	88.2	94.1	89.2
102.5°	0.0	34.7	80.3	87.2	83.2
105°	0.0	31.7	73.3	80.3	77.3
107.5°	0.0	27.7	67.4	75.3	73.3
110°	0.0	24.8	61.4	70.3	68.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	22.8	55.5	65.4	63.4
115°	0.0	19.8	50.5	60.4	59.4
117.5°	0.0	17.8	46.6	55.5	55.5
120°	1.0	15.9	42.6	51.5	50.5
122.5°	1.0	13.9	37.6	46.6	45.6
125°	1.0	12.9	33.7	42.6	41.6
127.5°	1.0	10.9	30.7	37.6	36.7
130°	1.0	9.9	26.8	33.7	32.7
132.5°	1.0	7.9	23.8	29.7	28.7
135°	1.0	6.9	20.8	25.8	24.8
137.5°	1.0	5.9	17.8	22.8	21.8
140°	1.0	5.0	15.9	19.8	18.8
142.5°	1.0	4.0	12.9	16.8	15.9
145°	1.0	3.0	10.9	13.9	12.9
147.5°	1.0	2.0	8.9	11.9	10.9
150°	1.0	2.0	6.9	9.9	8.9
152.5°	1.0	2.0	5.9	7.9	5.9
155°	1.0	2.0	4.0	5.9	4.0
157.5°	1.0	2.0	3.0	4.0	3.0
160°	1.0	2.0	3.0	3.0	1.0
162.5°	1.0	2.0	2.0	1.0	0.0
165°	1.0	2.0	2.0	0.0	0.0
167.5°	1.0	2.0	2.0	0.0	0.0
170°	1.0	2.0	2.0	0.0	0.0
172.5°	1.0	2.0	2.0	0.0	0.0
175°	2.0	2.0	2.0	0.0	0.0
177.5°	1.0	2.0	1.0	0.0	0.0
180°	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)