

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: P229566

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229566  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-2)  
Test Lab: INNOVATION CENTER-G3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RLN-LD5-40-RDP-UNV-L935-CD1-SVPD1-U  
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (112)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2896.0 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.31 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

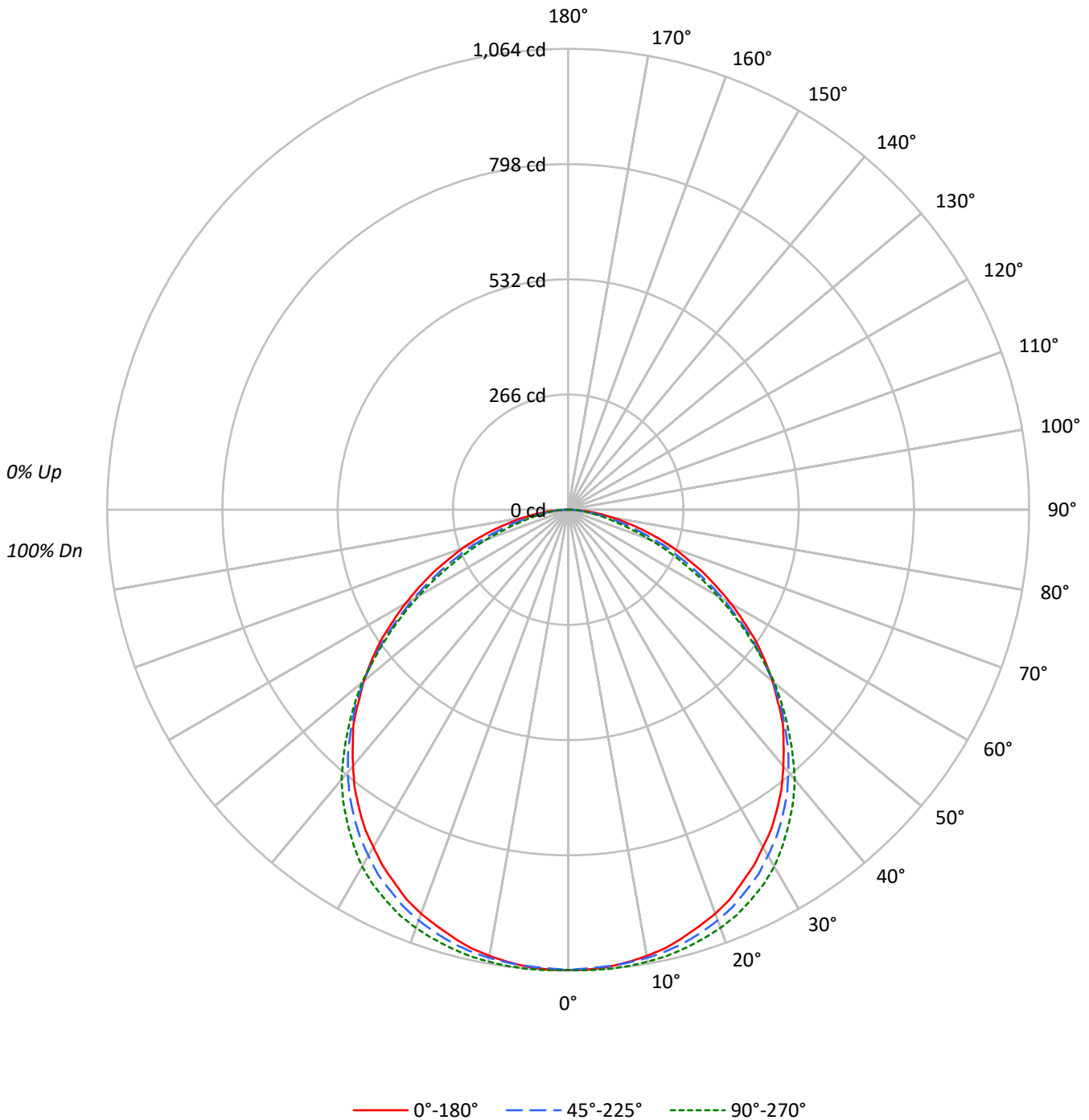
Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	3581	3581	3581
5°	3584	3579	3600
10°	3579	3594	3625
15°	3569	3611	3654
20°	3559	3619	3685
25°	3531	3610	3701
30°	3499	3588	3701
35°	3461	3549	3649
40°	3398	3479	3580
45°	3340	3369	3427
50°	3225	3225	3257
55°	3104	3032	2987
60°	2922	2789	2686
65°	2739	2508	2338
70°	2542	2211	1956
75°	2286	1868	1551
80°	1985	1451	1304
85°	1713	1241	1241



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.0	3.5
10°-20°	292.5	10.1
20°-30°	448.4	15.5
30°-40°	540.1	18.6
40°-50°	545.7	18.8
50°-60°	460.5	15.9
60°-70°	313.0	10.8
70°-80°	155.2	5.4
80°-90°	39.7	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	841.9	29.1
0°-40°	1382.0	47.7
0°-60°	2388.1	82.5
0°-90°	2896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2896.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1060	1060	1058	1063	1064	101
15°	1023	1028	1035	1044	1047	289
25°	950	957	971	991	996	438
35°	841	847	863	882	887	526
45°	701	696	707	719	719	538
55°	528	518	516	512	508	471
65°	344	327	314	299	293	340
75°	176	162	144	125	119	187
85°	44	34	32	32	32	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1062.7	1062.7	1062.7	1062.7	1062.7
2.5°	1062.7	1062.7	1059.6	1064.2	1064.2
5°	1059.6	1059.6	1058.1	1062.7	1064.2
7.5°	1053.5	1055.1	1055.1	1061.2	1062.7
10°	1045.9	1047.4	1050.5	1058.1	1059.6
12.5°	1036.7	1039.8	1044.4	1052.0	1055.1
15°	1023.0	1027.6	1035.2	1044.4	1047.4
17.5°	1007.7	1013.8	1023.0	1035.2	1038.3
20°	992.5	997.0	1009.2	1023.0	1027.6
22.5°	974.1	980.2	992.5	1007.7	1013.8
25°	949.7	957.3	971.1	990.9	995.5
27.5°	926.8	934.4	949.7	969.5	975.7
30°	899.3	908.5	922.2	943.6	951.2
32.5°	873.4	877.9	894.7	914.6	920.7
35°	841.3	847.4	862.7	882.5	887.1
37.5°	809.2	813.8	829.1	847.4	852.0
40°	772.6	777.2	790.9	809.2	813.8
42.5°	735.9	739.0	751.2	766.5	766.5
45°	700.8	696.2	706.9	719.1	719.1
47.5°	656.5	656.5	664.2	670.3	670.3
50°	615.3	612.3	615.3	618.4	621.4
52.5°	572.6	566.5	564.9	564.9	563.4
55°	528.3	517.6	516.1	511.5	508.4
57.5°	479.4	471.8	462.6	456.5	453.5
60°	433.6	419.9	413.8	403.1	398.5
62.5°	387.8	375.6	361.9	351.2	346.6
65°	343.5	326.7	314.5	299.3	293.2
67.5°	297.7	282.5	267.2	253.5	247.3
70°	258.0	239.7	224.4	204.6	198.5
72.5°	216.8	200.0	181.7	163.4	155.7
75°	175.6	161.8	143.5	125.2	119.1
77.5°	137.4	125.2	106.9	91.6	90.1
80°	102.3	91.6	74.8	68.7	67.2
82.5°	73.3	61.1	50.4	48.9	48.9
85°	44.3	33.6	32.1	32.1	32.1
87.5°	16.8	15.3	16.8	16.8	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)