

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: P229506

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229506  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RLN-LD5-40-RDP-UNV-L935-CD1-U  
Description: METALUX 1X4 RLN LED TROFFER WITH RDP LENS  
Light Source: (112)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2973.0 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

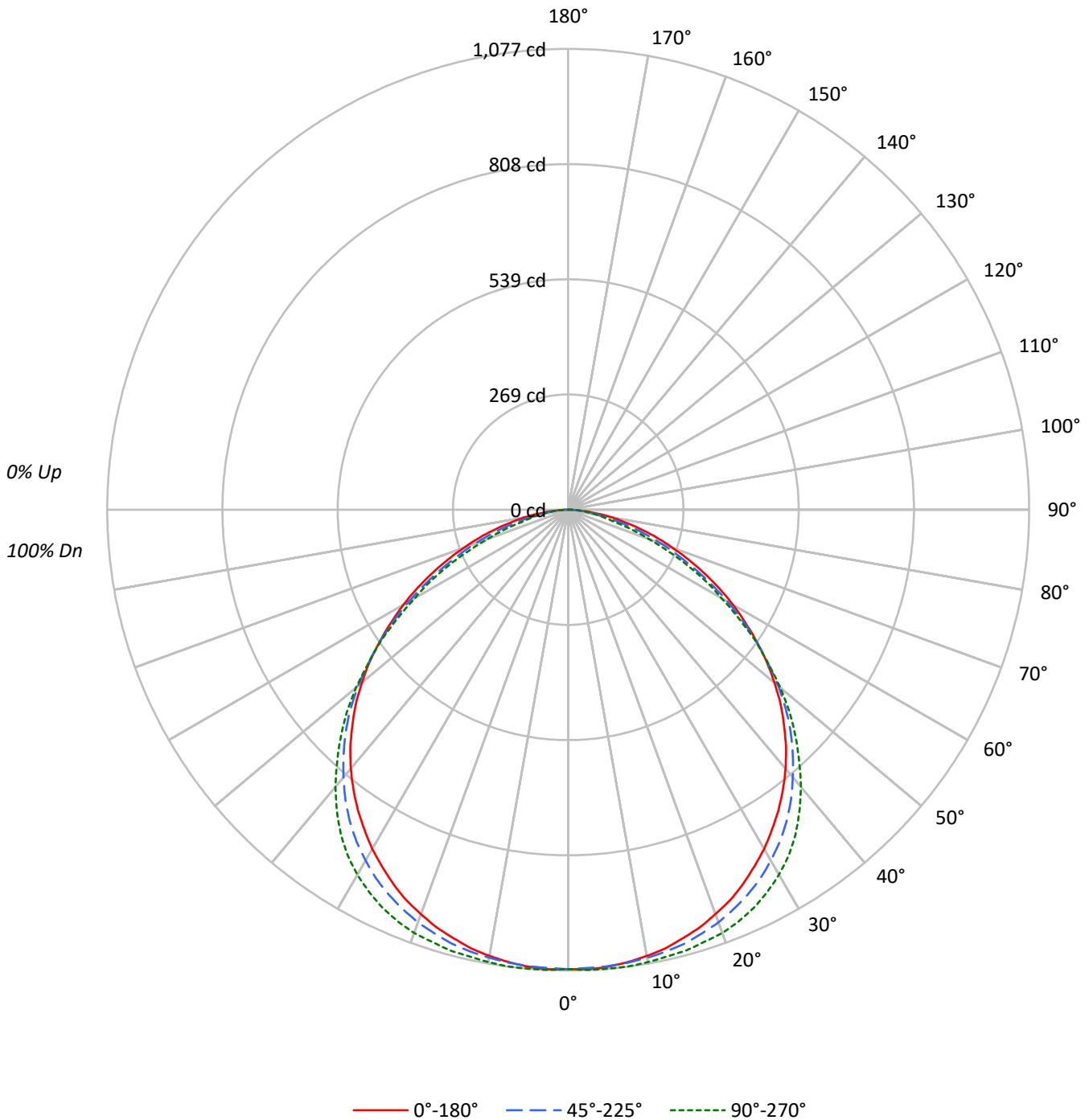
Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	3618	3618	3618
5°	3627	3622	3642
10°	3623	3638	3674
15°	3616	3663	3720
20°	3606	3681	3776
25°	3591	3690	3816
30°	3562	3683	3833
35°	3524	3657	3809
40°	3475	3592	3722
45°	3399	3505	3582
50°	3298	3360	3391
55°	3158	3149	3132
60°	2996	2896	2787
65°	2791	2590	2449
70°	2546	2270	1978
75°	2287	1884	1480
80°	2036	1376	1290
85°	1601	1141	1141



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.2	3.4
10°-20°	297.0	10.0
20°-30°	458.4	15.4
30°-40°	556.0	18.7
40°-50°	564.5	19.0
50°-60°	477.5	16.1
60°-70°	323.1	10.9
70°-80°	156.2	5.3
80°-90°	38.1	1.3
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°	857.6	28.8
0°-40°	1413.6	47.5
0°-60°	2455.6	82.6
0°-90°	2973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2973.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1072	1072	1071	1075	1077	102
15°	1037	1043	1050	1062	1066	293
25°	966	973	992	1018	1026	445
35°	857	865	889	917	926	536
45°	713	715	736	750	752	550
55°	538	533	536	536	533	481
65°	350	335	325	312	307	347
75°	176	162	145	126	114	187
85°	41	32	30	30	30	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1073.7	1073.7	1073.7	1073.7	1073.7
2.5°	1075.1	1075.1	1072.2	1075.1	1076.6
5°	1072.2	1072.2	1070.7	1075.1	1076.6
7.5°	1066.3	1067.8	1067.8	1073.7	1076.6
10°	1058.9	1061.8	1063.3	1072.2	1073.7
12.5°	1050.0	1053.0	1057.4	1067.8	1069.2
15°	1036.7	1042.6	1050.0	1061.8	1066.3
17.5°	1023.4	1029.4	1038.2	1054.5	1058.9
20°	1005.7	1013.1	1026.4	1045.6	1053.0
22.5°	988.0	993.9	1010.2	1033.8	1041.2
25°	965.9	973.2	992.4	1017.5	1026.4
27.5°	940.7	951.1	971.8	998.3	1007.2
30°	915.6	924.5	946.7	976.2	985.0
32.5°	886.1	895.0	920.1	948.1	958.5
35°	856.6	865.4	889.1	917.1	926.0
37.5°	824.1	830.0	855.1	878.7	887.6
40°	790.1	794.5	816.7	840.3	846.2
42.5°	753.2	756.1	776.8	797.5	799.0
45°	713.3	714.8	735.5	750.2	751.7
47.5°	673.4	672.0	689.7	700.0	701.5
50°	629.1	629.1	640.9	646.9	646.9
52.5°	584.8	581.9	587.8	592.2	587.8
55°	537.6	533.1	536.1	536.1	533.1
57.5°	490.3	481.4	482.9	480.0	472.6
60°	444.5	434.2	429.8	419.4	413.5
62.5°	397.3	385.5	376.6	364.8	363.3
65°	350.0	335.2	324.9	311.6	307.2
67.5°	304.2	290.9	276.2	261.4	252.5
70°	258.4	243.7	230.4	211.2	200.8
72.5°	217.1	203.8	187.6	165.4	158.0
75°	175.7	162.5	144.7	125.5	113.7
77.5°	135.9	125.5	106.3	90.1	88.6
80°	104.9	93.0	70.9	66.5	66.5
82.5°	67.9	60.6	50.2	47.3	47.3
85°	41.4	32.5	29.5	29.5	29.5
87.5°	16.2	14.8	14.8	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)