

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: P229571

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229571  
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-L940-CD1-SVPD1-U  
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (112)4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2972.0 lumens  
Efficiency: N/A  
Efficacy: 70.9 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

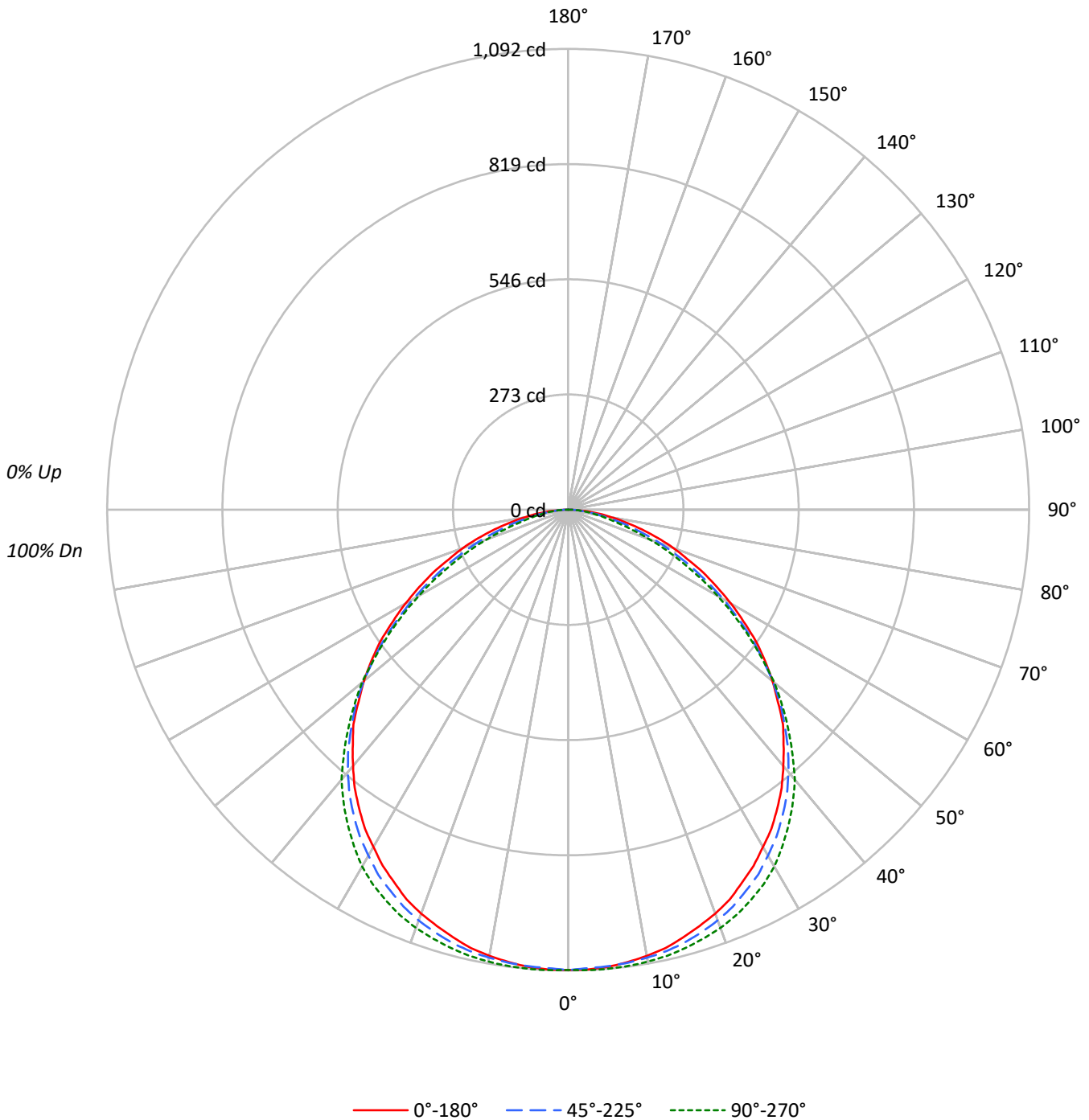
Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	3675	3675	3675
5°	3678	3673	3694
10°	3672	3688	3721
15°	3662	3706	3750
20°	3652	3714	3781
25°	3623	3705	3798
30°	3591	3682	3798
35°	3552	3642	3745
40°	3488	3570	3674
45°	3427	3457	3517
50°	3310	3310	3343
55°	3185	3111	3065
60°	2999	2861	2756
65°	2811	2574	2398
70°	2609	2269	2007
75°	2346	1918	1591
80°	2037	1490	1337
85°	1755	1272	1272



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.6	3.5
10°-20°	300.2	10.1
20°-30°	460.2	15.5
30°-40°	554.3	18.6
40°-50°	560.0	18.8
50°-60°	472.6	15.9
60°-70°	321.3	10.8
70°-80°	159.2	5.4
80°-90°	40.7	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°	864.0	29.1
0°-40°	1418.2	47.7
0°-60°	2450.8	82.5
0°-90°	2972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2972.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1087	1087	1086	1091	1092	103
15°	1050	1054	1062	1072	1075	296
25°	975	982	997	1017	1022	450
35°	863	870	885	906	910	540
45°	719	714	726	738	738	552
55°	542	531	530	525	522	483
65°	353	335	323	307	301	349
75°	180	166	147	128	122	192
85°	45	34	33	33	33	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1090.6	1090.6	1087.4	1092.1	1092.1
5°	1087.4	1087.4	1085.9	1090.6	1092.1
7.5°	1081.2	1082.7	1082.7	1089.0	1090.6
10°	1073.3	1074.9	1078.0	1085.9	1087.4
12.5°	1063.9	1067.1	1071.8	1079.6	1082.7
15°	1049.8	1054.5	1062.4	1071.8	1074.9
17.5°	1034.2	1040.4	1049.8	1062.4	1065.5
20°	1018.5	1023.2	1035.7	1049.8	1054.5
22.5°	999.7	1006.0	1018.5	1034.2	1040.4
25°	974.6	982.5	996.6	1016.9	1021.6
27.5°	951.1	959.0	974.6	995.0	1001.3
30°	922.9	932.3	946.4	968.4	976.2
32.5°	896.3	901.0	918.2	938.6	944.9
35°	863.4	869.6	885.3	905.7	910.4
37.5°	830.5	835.2	850.8	869.6	874.3
40°	792.9	797.6	811.7	830.5	835.2
42.5°	755.3	758.4	770.9	786.6	786.6
45°	719.2	714.5	725.5	738.0	738.0
47.5°	673.8	673.8	681.6	687.9	687.9
50°	631.5	628.3	631.5	634.6	637.7
52.5°	587.6	581.3	579.8	579.8	578.2
55°	542.2	531.2	529.6	524.9	521.8
57.5°	492.0	484.2	474.8	468.5	465.4
60°	445.0	430.9	424.6	413.7	409.0
62.5°	398.0	385.5	371.4	360.4	355.7
65°	352.6	335.3	322.8	307.1	300.8
67.5°	305.5	289.9	274.2	260.1	253.8
70°	264.8	246.0	230.3	210.0	203.7
72.5°	222.5	205.3	186.5	167.7	159.8
75°	180.2	166.1	147.3	128.5	122.2
77.5°	141.0	128.5	109.7	94.0	92.4
80°	105.0	94.0	76.8	70.5	68.9
82.5°	75.2	62.7	51.7	50.1	50.1
85°	45.4	34.5	32.9	32.9	32.9
87.5°	17.2	15.7	17.2	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)