

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: P229561

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229561  
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-L930-CD1-SVPD1-U  
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (112)3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2792.0 lumens  
Efficiency: N/A  
Efficacy: 66.6 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

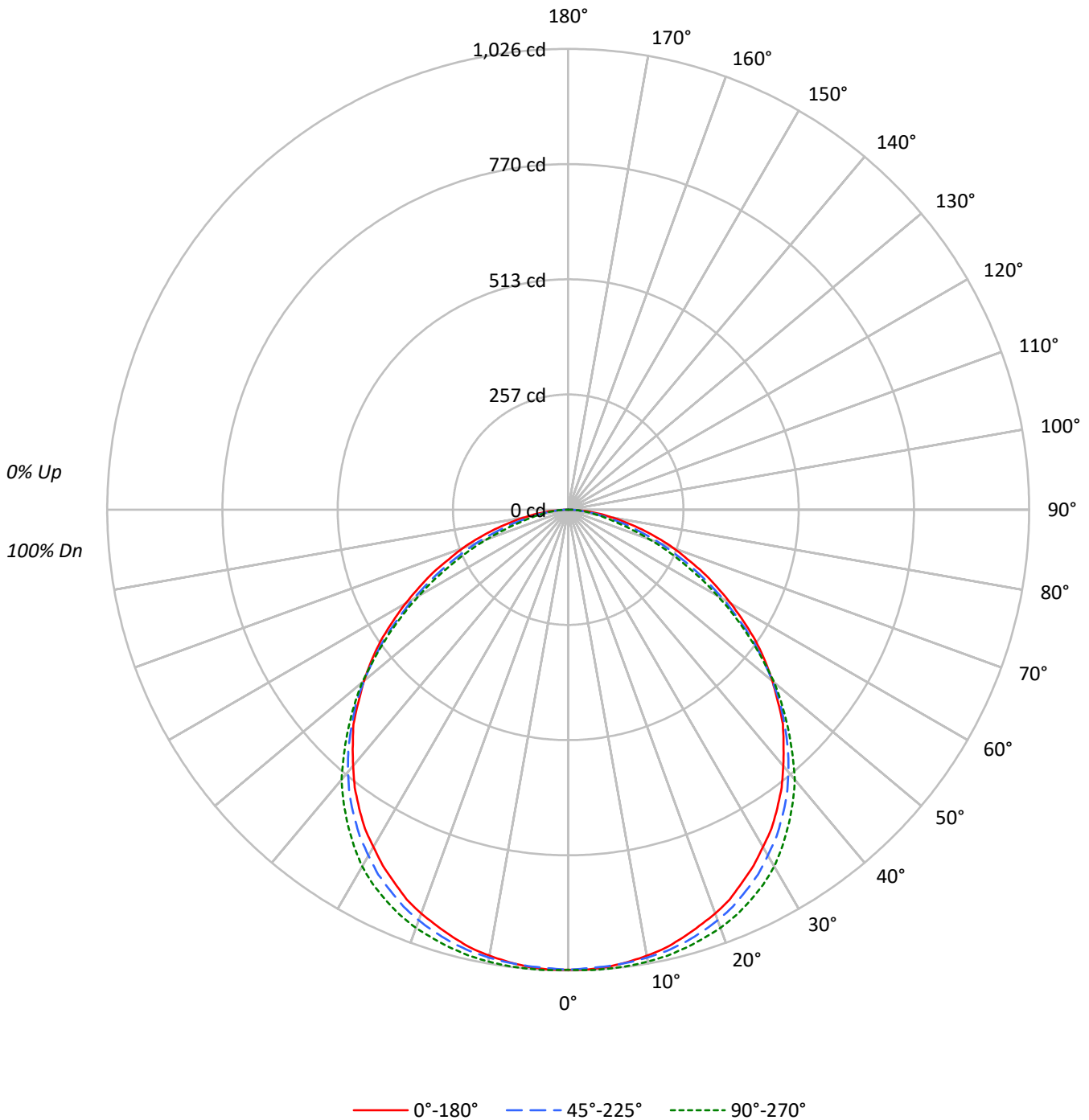
Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3452	3452	3452
5°	3456	3450	3470
10°	3450	3465	3495
15°	3441	3481	3523
20°	3431	3489	3552
25°	3404	3481	3568
30°	3373	3459	3568
35°	3336	3421	3518
40°	3276	3354	3451
45°	3220	3248	3304
50°	3110	3110	3141
55°	2992	2923	2880
60°	2818	2688	2589
65°	2641	2417	2253
70°	2451	2132	1886
75°	2204	1802	1495
80°	1913	1399	1257
85°	1651	1195	1195



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.4	3.5
10°-20°	282.0	10.1
20°-30°	432.3	15.5
30°-40°	520.7	18.6
40°-50°	526.1	18.8
50°-60°	444.0	15.9
60°-70°	301.8	10.8
70°-80°	149.6	5.4
80°-90°	38.2	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°	811.6	29.1
0°-40°	1332.3	47.7
0°-60°	2302.4	82.5
0°-90°	2792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2792.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1022	1022	1020	1024	1026	97
15°	986	991	998	1007	1010	278
25°	916	923	936	955	960	422
35°	811	817	832	851	855	507
45°	676	671	682	693	693	519
55°	509	499	498	493	490	454
65°	331	315	303	288	283	328
75°	169	156	138	121	115	180
85°	43	32	31	31	31	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1024.5	1024.5	1024.5	1024.5	1024.5
2.5°	1024.5	1024.5	1021.6	1026.0	1026.0
5°	1021.6	1021.6	1020.1	1024.5	1026.0
7.5°	1015.7	1017.2	1017.2	1023.1	1024.5
10°	1008.3	1009.8	1012.7	1020.1	1021.6
12.5°	999.5	1002.4	1006.9	1014.2	1017.2
15°	986.3	990.7	998.0	1006.9	1009.8
17.5°	971.5	977.4	986.3	998.0	1001.0
20°	956.8	961.2	973.0	986.3	990.7
22.5°	939.1	945.0	956.8	971.5	977.4
25°	915.6	923.0	936.2	955.3	959.8
27.5°	893.5	900.9	915.6	934.7	940.6
30°	867.0	875.9	889.1	909.7	917.1
32.5°	842.0	846.4	862.6	881.7	887.6
35°	811.1	817.0	831.7	850.8	855.2
37.5°	780.2	784.6	799.3	817.0	821.4
40°	744.8	749.3	762.5	780.2	784.6
42.5°	709.5	712.5	724.2	739.0	739.0
45°	675.7	671.2	681.5	693.3	693.3
47.5°	633.0	633.0	640.3	646.2	646.2
50°	593.2	590.3	593.2	596.2	599.1
52.5°	552.0	546.1	544.6	544.6	543.2
55°	509.3	499.0	497.5	493.1	490.2
57.5°	462.2	454.9	446.0	440.1	437.2
60°	418.1	404.8	398.9	388.6	384.2
62.5°	373.9	362.1	348.9	338.6	334.1
65°	331.2	315.0	303.2	288.5	282.6
67.5°	287.0	272.3	257.6	244.4	238.5
70°	248.8	231.1	216.4	197.3	191.4
72.5°	209.0	192.8	175.2	157.5	150.1
75°	169.3	156.0	138.4	120.7	114.8
77.5°	132.5	120.7	103.0	88.3	86.8
80°	98.6	88.3	72.1	66.2	64.8
82.5°	70.7	58.9	48.6	47.1	47.1
85°	42.7	32.4	30.9	30.9	30.9
87.5°	16.2	14.7	16.2	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)