

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: P229559

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229559  
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-LD5-31-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: 2168.0 lumens  
Efficiency: N/A  
Efficacy: 70.8 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

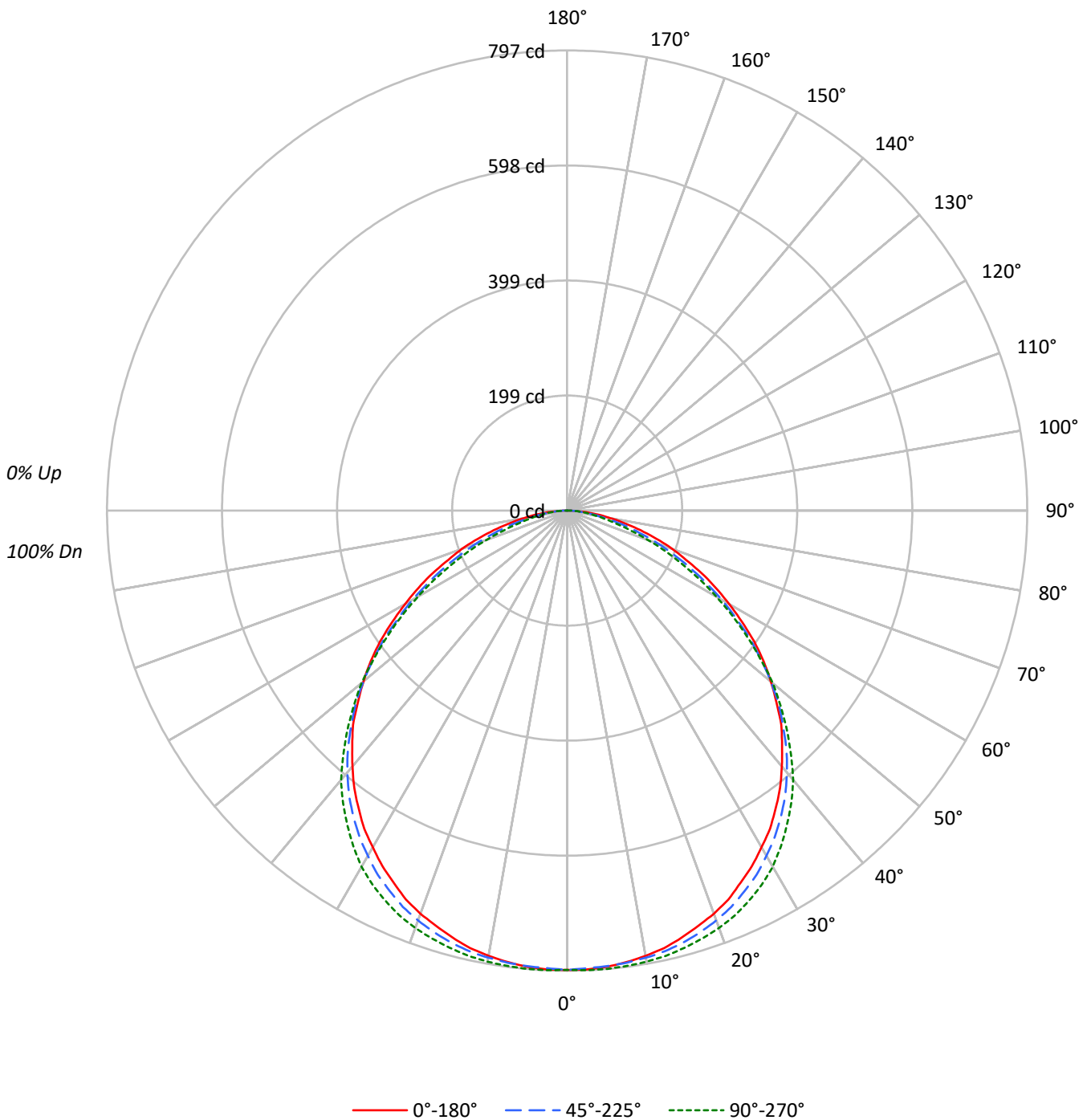
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2681	2681	2681
5°	2683	2679	2695
10°	2679	2691	2714
15°	2671	2704	2735
20°	2664	2709	2759
25°	2643	2703	2771
30°	2619	2686	2771
35°	2591	2657	2732
40°	2544	2604	2680
45°	2500	2522	2566
50°	2415	2415	2439
55°	2323	2269	2236
60°	2188	2088	2010
65°	2051	1878	1750
70°	1903	1655	1464
75°	1711	1398	1161
80°	1486	1087	976
85°	1280	928	928



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.6	3.5
10°-20°	219.0	10.1
20°-30°	335.7	15.5
30°-40°	404.3	18.6
40°-50°	408.5	18.8
50°-60°	344.7	15.9
60°-70°	234.4	10.8
70°-80°	116.1	5.4
80°-90°	29.7	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°	630.2	29.1
0°-40°	1034.6	47.7
0°-60°	1787.8	82.5
0°-90°	2168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2168.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	793	793	792	796	797	75
15°	766	769	775	782	784	216
25°	711	717	727	742	745	328
35°	630	634	646	661	664	394
45°	525	521	529	538	538	403
55°	396	388	386	383	381	352
65°	257	245	236	224	220	255
75°	131	121	107	94	89	140
85°	33	25	24	24	24	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	795.5	795.5	795.5	795.5	795.5
2.5°	795.5	795.5	793.3	796.7	796.7
5°	793.3	793.3	792.1	795.5	796.7
7.5°	788.7	789.8	789.8	794.4	795.5
10°	783.0	784.1	786.4	792.1	793.3
12.5°	776.1	778.4	781.8	787.5	789.8
15°	765.8	769.3	775.0	781.8	784.1
17.5°	754.4	759.0	765.8	775.0	777.3
20°	743.0	746.4	755.5	765.8	769.3
22.5°	729.3	733.8	743.0	754.4	759.0
25°	711.0	716.7	727.0	741.8	745.3
27.5°	693.8	699.5	711.0	725.8	730.4
30°	673.2	680.1	690.4	706.4	712.1
32.5°	653.8	657.2	669.8	684.7	689.2
35°	629.8	634.4	645.8	660.7	664.1
37.5°	605.8	609.2	620.7	634.4	637.8
40°	578.4	581.8	592.1	605.8	609.2
42.5°	550.9	553.2	562.4	573.8	573.8
45°	524.6	521.2	529.2	538.4	538.4
47.5°	491.5	491.5	497.2	501.8	501.8
50°	460.6	458.4	460.6	462.9	465.2
52.5°	428.6	424.1	422.9	422.9	421.8
55°	395.5	387.5	386.3	382.9	380.6
57.5°	358.9	353.2	346.3	341.8	339.5
60°	324.6	314.3	309.8	301.8	298.3
62.5°	290.3	281.2	270.9	262.9	259.5
65°	257.2	244.6	235.5	224.0	219.5
67.5°	222.9	211.5	200.0	189.7	185.2
70°	193.2	179.5	168.0	153.2	148.6
72.5°	162.3	149.7	136.0	122.3	116.6
75°	131.4	121.2	107.4	93.7	89.2
77.5°	102.9	93.7	80.0	68.6	67.4
80°	76.6	68.6	56.0	51.4	50.3
82.5°	54.9	45.7	37.7	36.6	36.6
85°	33.1	25.1	24.0	24.0	24.0
87.5°	12.6	11.4	12.6	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)