

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: P229503

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229503  
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-LD5-26-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: 1933.0 lumens  
Efficiency: N/A  
Efficacy: 78.2 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

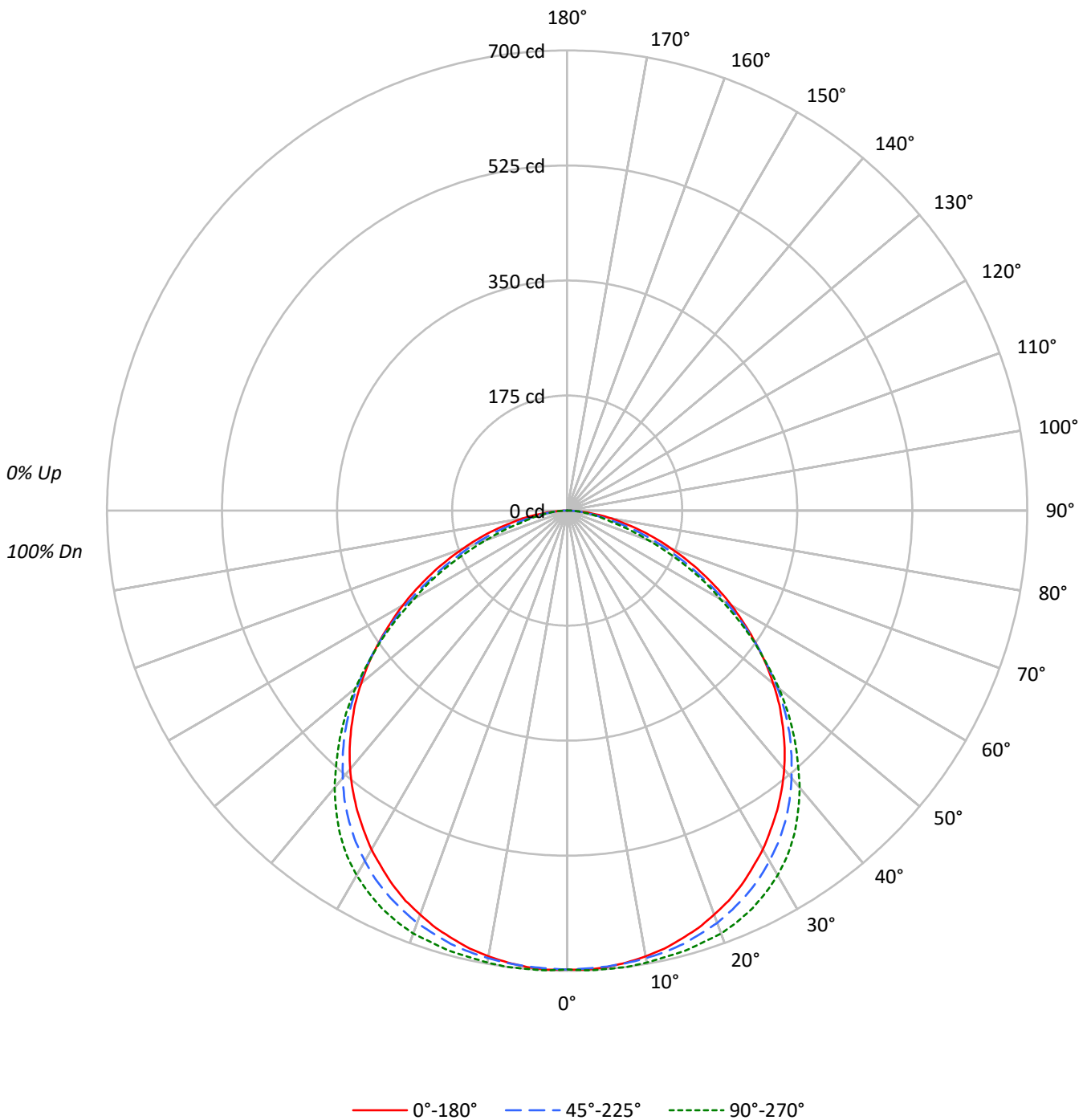
Input Watts (W): 24.72  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2352	2352	2352
5°	2358	2355	2368
10°	2356	2366	2389
15°	2352	2382	2419
20°	2345	2393	2455
25°	2335	2399	2481
30°	2316	2395	2492
35°	2291	2378	2477
40°	2260	2336	2420
45°	2210	2279	2329
50°	2145	2184	2205
55°	2053	2048	2036
60°	1948	1883	1812
65°	1815	1684	1592
70°	1655	1476	1287
75°	1488	1225	962
80°	1323	895	838
85°	1040	742	742



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.4	3.4
10°-20°	193.1	10.0
20°-30°	298.1	15.4
30°-40°	361.5	18.7
40°-50°	367.0	19.0
50°-60°	310.5	16.1
60°-70°	210.1	10.9
70°-80°	101.5	5.3
80°-90°	24.8	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°	557.6	28.8
0°-40°	919.1	47.5
0°-60°	1596.6	82.6
0°-90°	1933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1933.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	697	697	696	699	700	66
15°	674	678	683	690	693	190
25°	628	633	645	662	667	289
35°	557	563	578	596	602	348
45°	464	465	478	488	489	358
55°	350	347	349	349	347	312
65°	228	218	211	203	200	226
75°	114	106	94	82	74	122
85°	27	21	19	19	19	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	698.1	698.1	698.1	698.1	698.1
2.5°	699.0	699.0	697.1	699.0	700.0
5°	697.1	697.1	696.2	699.0	700.0
7.5°	693.3	694.2	694.2	698.1	700.0
10°	688.5	690.4	691.4	697.1	698.1
12.5°	682.7	684.6	687.5	694.2	695.2
15°	674.1	677.9	682.7	690.4	693.3
17.5°	665.4	669.3	675.0	685.6	688.5
20°	653.9	658.7	667.4	679.8	684.6
22.5°	642.4	646.2	656.8	672.2	677.0
25°	628.0	632.8	645.3	661.6	667.4
27.5°	611.7	618.4	631.8	649.1	654.9
30°	595.3	601.1	615.5	634.7	640.5
32.5°	576.1	581.9	598.2	616.5	623.2
35°	556.9	562.7	578.1	596.3	602.1
37.5°	535.8	539.6	556.0	571.3	577.1
40°	513.7	516.6	531.0	546.4	550.2
42.5°	489.7	491.6	505.1	518.5	519.5
45°	463.8	464.7	478.2	487.8	488.7
47.5°	437.9	436.9	448.4	455.1	456.1
50°	409.1	409.1	416.7	420.6	420.6
52.5°	380.2	378.3	382.2	385.0	382.2
55°	349.5	346.6	348.6	348.6	346.6
57.5°	318.8	313.0	314.0	312.1	307.3
60°	289.0	282.3	279.4	272.7	268.9
62.5°	258.3	250.6	244.9	237.2	236.2
65°	227.6	218.0	211.2	202.6	199.7
67.5°	197.8	189.2	179.6	170.0	164.2
70°	168.0	158.4	149.8	137.3	130.6
72.5°	141.2	132.5	121.9	107.5	102.7
75°	114.3	105.6	94.1	81.6	73.9
77.5°	88.3	81.6	69.1	58.6	57.6
80°	68.2	60.5	46.1	43.2	43.2
82.5°	44.2	39.4	32.6	30.7	30.7
85°	26.9	21.1	19.2	19.2	19.2
87.5°	10.6	9.6	9.6	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)