

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: P229502

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229502  
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-LD5-23-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: 1733.0 lumens  
Efficiency: N/A  
Efficacy: 79.1 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

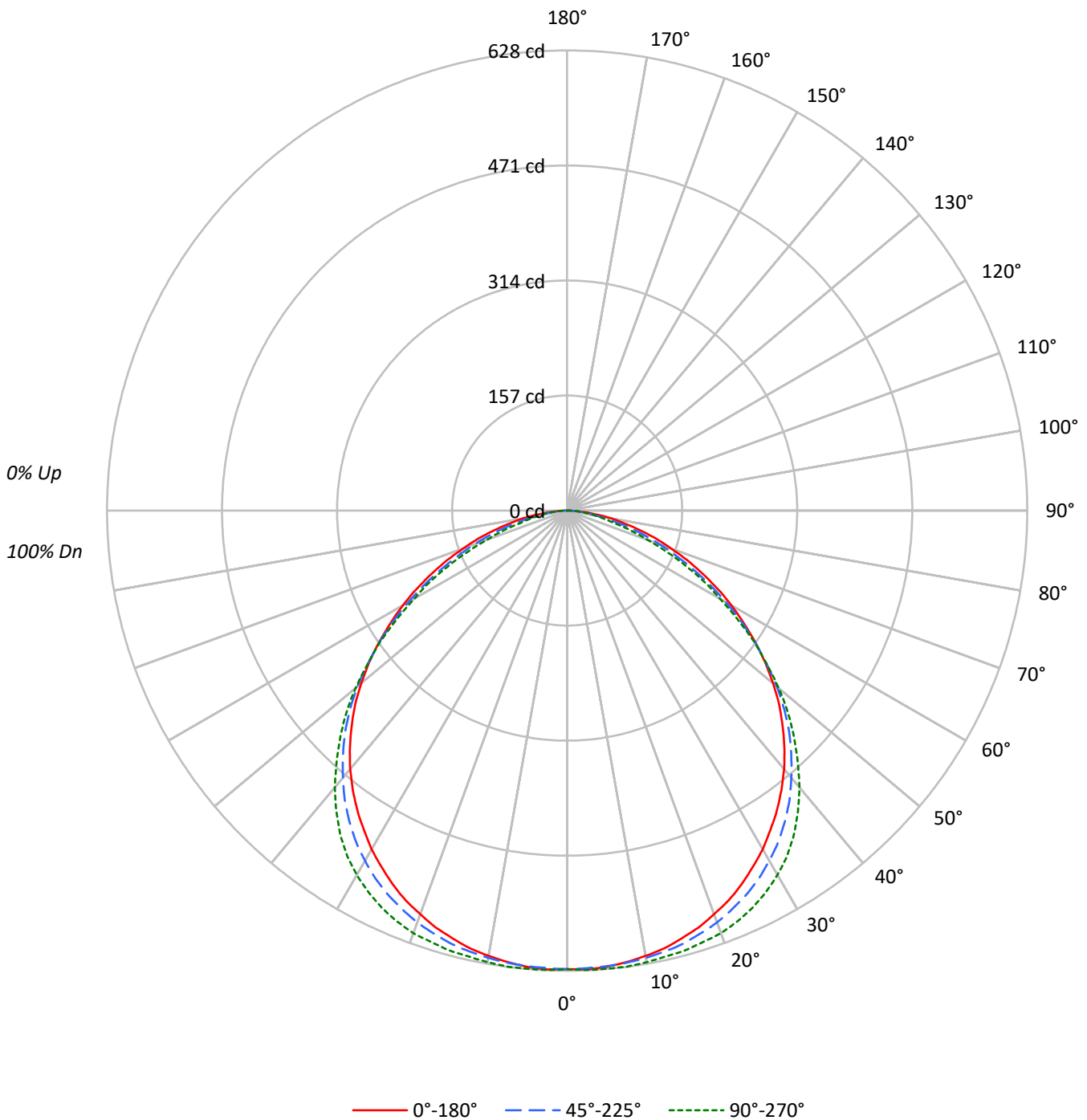
Input Watts (W): 21.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2109	2109	2109
5°	2114	2111	2123
10°	2112	2121	2141
15°	2108	2135	2168
20°	2102	2145	2201
25°	2093	2151	2224
30°	2077	2147	2234
35°	2054	2132	2220
40°	2026	2094	2170
45°	1981	2043	2088
50°	1922	1958	1977
55°	1841	1836	1826
60°	1746	1688	1624
65°	1627	1510	1428
70°	1485	1323	1154
75°	1333	1099	863
80°	1186	801	751
85°	932	665	665



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.6	3.4
10°-20°	173.1	10.0
20°-30°	267.2	15.4
30°-40°	324.1	18.7
40°-50°	329.0	19.0
50°-60°	278.4	16.1
60°-70°	188.3	10.9
70°-80°	91.1	5.3
80°-90°	22.2	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°	499.9	28.8
0°-40°	824.0	47.5
0°-60°	1431.4	82.6
0°-90°	1733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1733.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	625	625	624	627	628	59
15°	604	608	612	619	622	171
25°	563	567	578	593	598	259
35°	499	504	518	535	540	312
45°	416	417	429	437	438	321
55°	313	311	312	312	311	280
65°	204	195	189	182	179	202
75°	102	95	84	73	66	109
85°	24	19	17	17	17	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	625.8	625.8	625.8	625.8	625.8
2.5°	626.7	626.7	625.0	626.7	627.6
5°	625.0	625.0	624.1	626.7	627.6
7.5°	621.5	622.4	622.4	625.8	627.6
10°	617.2	619.0	619.8	625.0	625.8
12.5°	612.1	613.8	616.4	622.4	623.3
15°	604.3	607.8	612.1	619.0	621.5
17.5°	596.6	600.0	605.2	614.7	617.2
20°	586.2	590.6	598.3	609.5	613.8
22.5°	575.9	579.4	588.8	602.6	606.9
25°	563.0	567.3	578.5	593.1	598.3
27.5°	548.4	554.4	566.4	581.9	587.1
30°	533.7	538.9	551.8	569.0	574.2
32.5°	516.5	521.7	536.3	552.7	558.7
35°	499.3	504.5	518.2	534.6	539.8
37.5°	480.4	483.8	498.4	512.2	517.4
40°	460.6	463.1	476.1	489.8	493.3
42.5°	439.0	440.8	452.8	464.9	465.7
45°	415.8	416.7	428.7	437.3	438.2
47.5°	392.6	391.7	402.0	408.1	408.9
50°	366.7	366.7	373.6	377.1	377.1
52.5°	340.9	339.2	342.6	345.2	342.6
55°	313.4	310.8	312.5	312.5	310.8
57.5°	285.8	280.6	281.5	279.8	275.5
60°	259.1	253.1	250.5	244.5	241.0
62.5°	231.6	224.7	219.5	212.6	211.8
65°	204.0	195.4	189.4	181.6	179.1
67.5°	177.3	169.6	161.0	152.4	147.2
70°	150.7	142.0	134.3	123.1	117.1
72.5°	126.5	118.8	109.3	96.4	92.1
75°	102.4	94.7	84.4	73.2	66.3
77.5°	79.2	73.2	62.0	52.5	51.7
80°	61.1	54.2	41.3	38.7	38.7
82.5°	39.6	35.3	29.3	27.5	27.5
85°	24.1	18.9	17.2	17.2	17.2
87.5°	9.5	8.6	8.6	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)