

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: P295790

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RLN-LD5-31-RDP-UNV-L92765-W2A1-U-4500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2398.0 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

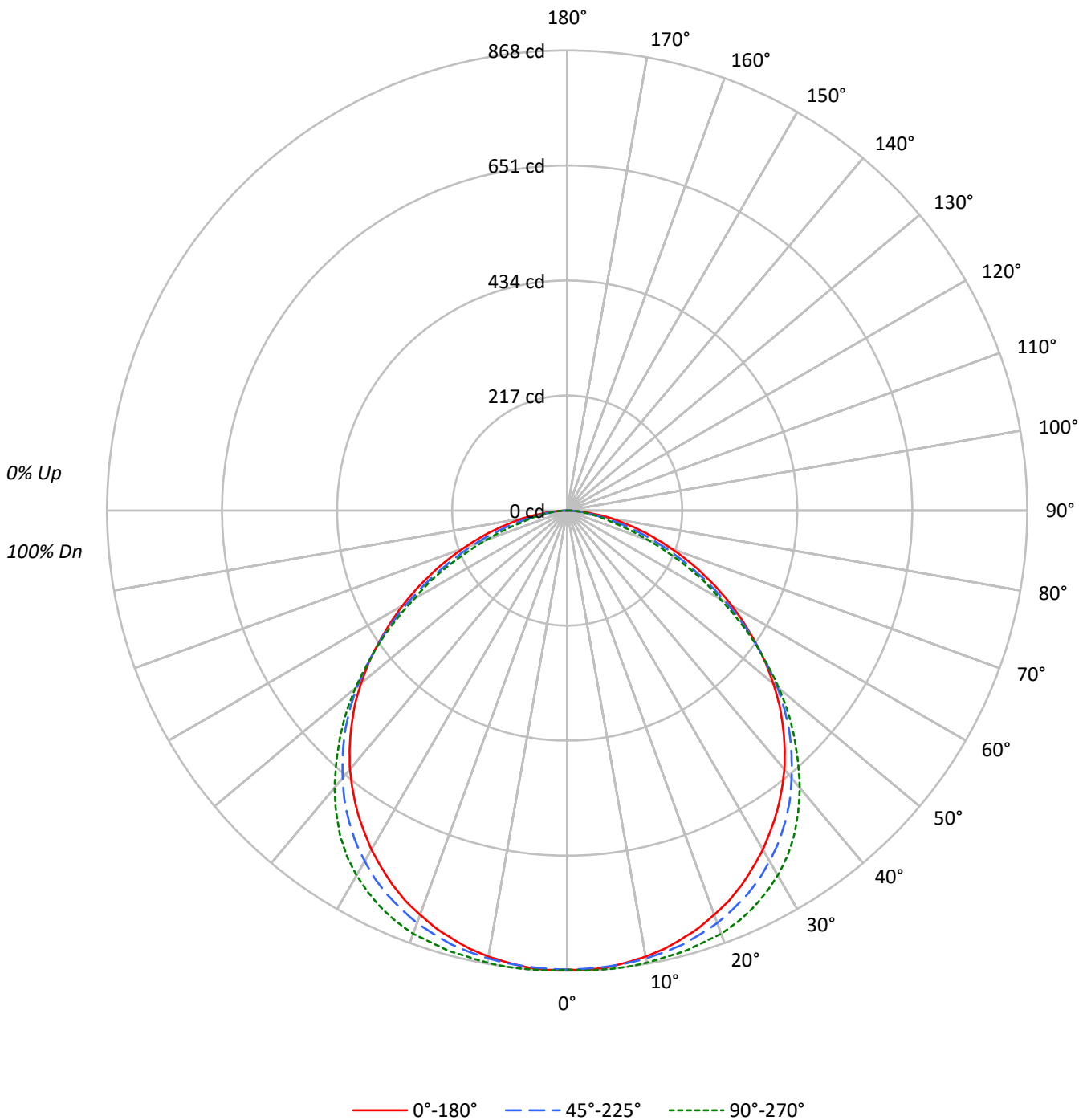
Input Watts (W): 28.83  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2330	2330	2330
5°	2336	2333	2346
10°	2334	2344	2366
15°	2330	2359	2396
20°	2323	2371	2432
25°	2313	2377	2458
30°	2295	2373	2469
35°	2270	2356	2454
40°	2239	2314	2398
45°	2190	2257	2307
50°	2125	2164	2184
55°	2034	2029	2017
60°	1930	1865	1795
65°	1798	1669	1578
70°	1640	1462	1275
75°	1474	1213	953
80°	1311	886	831
85°	1031	735	735



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.4	3.4
10°-20°	239.6	10.0
20°-30°	369.8	15.4
30°-40°	448.4	18.7
40°-50°	455.3	19.0
50°-60°	385.2	16.1
60°-70°	260.6	10.9
70°-80°	126.0	5.3
80°-90°	30.7	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°	691.8	28.8
0°-40°	1140.2	47.5
0°-60°	1980.7	82.6
0°-90°	2398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2398.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	865	865	864	867	868	82
15°	836	841	847	856	860	236
25°	779	785	800	821	828	359
35°	691	698	717	740	747	432
45°	575	576	593	605	606	444
55°	434	430	432	432	430	388
65°	282	270	262	251	248	280
75°	142	131	117	101	92	151
85°	33	26	24	24	24	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	866.0	866.0	866.0	866.0	866.0
2.5°	867.2	867.2	864.8	867.2	868.4
5°	864.8	864.8	863.6	867.2	868.4
7.5°	860.0	861.2	861.2	866.0	868.4
10°	854.1	856.5	857.7	864.8	866.0
12.5°	846.9	849.3	852.9	861.2	862.4
15°	836.2	841.0	846.9	856.5	860.0
17.5°	825.5	830.3	837.4	850.5	854.1
20°	811.2	817.2	827.9	843.4	849.3
22.5°	796.9	801.7	814.8	833.8	839.8
25°	779.0	785.0	800.5	820.7	827.9
27.5°	758.8	767.1	783.8	805.3	812.4
30°	738.5	745.7	763.6	787.4	794.5
32.5°	714.7	721.9	742.1	764.8	773.1
35°	690.9	698.0	717.1	739.7	746.9
37.5°	664.7	669.5	689.7	708.8	715.9
40°	637.3	640.9	658.7	677.8	682.6
42.5°	607.5	609.9	626.6	643.3	644.4
45°	575.4	576.5	593.2	605.1	606.3
47.5°	543.2	542.0	556.3	564.6	565.8
50°	507.5	507.5	517.0	521.7	521.7
52.5°	471.7	469.3	474.1	477.7	474.1
55°	433.6	430.0	432.4	432.4	430.0
57.5°	395.5	388.3	389.5	387.1	381.2
60°	358.6	350.2	346.6	338.3	333.5
62.5°	320.4	310.9	303.8	294.2	293.0
65°	282.3	270.4	262.1	251.3	247.8
67.5°	245.4	234.7	222.8	210.8	203.7
70°	208.5	196.5	185.8	170.3	162.0
72.5°	175.1	164.4	151.3	133.4	127.5
75°	141.8	131.0	116.7	101.3	91.7
77.5°	109.6	101.3	85.8	72.7	71.5
80°	84.6	75.0	57.2	53.6	53.6
82.5°	54.8	48.8	40.5	38.1	38.1
85°	33.4	26.2	23.8	23.8	23.8
87.5°	13.1	11.9	11.9	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)