

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: P295716

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295716  
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-L82765-W2A1-U-2700K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2429.0 lumens  
Efficiency: N/A  
Efficacy: 85.9 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

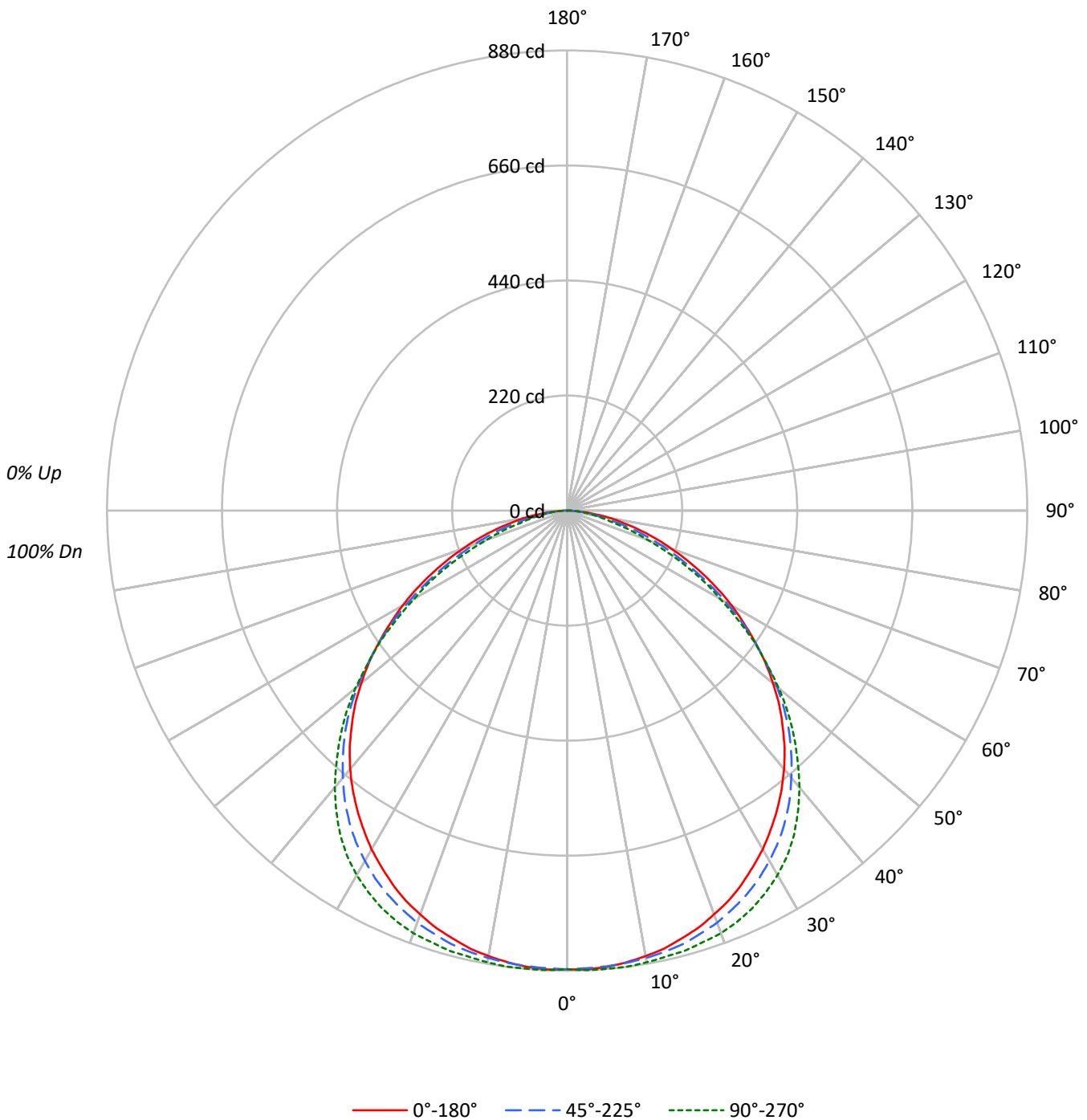
Input Watts (W): 28.272  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2361	2361	2361
5°	2366	2363	2376
10°	2364	2374	2397
15°	2360	2390	2427
20°	2353	2401	2464
25°	2343	2407	2490
30°	2325	2403	2501
35°	2299	2386	2485
40°	2268	2344	2429
45°	2218	2287	2337
50°	2152	2192	2213
55°	2061	2055	2044
60°	1955	1890	1818
65°	1821	1691	1598
70°	1662	1481	1291
75°	1493	1229	966
80°	1328	897	841
85°	1044	744	744



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.5	3.4
10°-20°	242.7	10.0
20°-30°	374.5	15.4
30°-40°	454.2	18.7
40°-50°	461.2	19.0
50°-60°	390.1	16.1
60°-70°	264.0	10.9
70°-80°	127.6	5.3
80°-90°	31.1	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°	700.7	28.8
0°-40°	1154.9	47.5
0°-60°	2006.3	82.6
0°-90°	2429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2429.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	876	876	875	878	880	83
15°	847	852	858	868	871	239
25°	789	795	811	831	839	363
35°	700	707	726	749	756	438
45°	583	584	601	613	614	449
55°	439	436	438	438	436	393
65°	286	274	266	255	251	284
75°	144	133	118	103	93	153
85°	34	26	24	24	24	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	877.2	877.2	877.2	877.2	877.2
2.5°	878.4	878.4	876.0	878.4	879.6
5°	876.0	876.0	874.8	878.4	879.6
7.5°	871.2	872.4	872.4	877.2	879.6
10°	865.1	867.5	868.8	876.0	877.2
12.5°	857.9	860.3	863.9	872.4	873.6
15°	847.0	851.9	857.9	867.5	871.2
17.5°	836.2	841.0	848.2	861.5	865.1
20°	821.7	827.7	838.6	854.3	860.3
22.5°	807.2	812.0	825.3	844.6	850.7
25°	789.1	795.2	810.8	831.3	838.6
27.5°	768.6	777.1	793.9	815.7	822.9
30°	748.1	755.3	773.4	797.6	804.8
32.5°	724.0	731.2	751.7	774.6	783.1
35°	699.8	707.1	726.4	749.3	756.5
37.5°	673.3	678.1	698.6	717.9	725.2
40°	645.5	649.2	667.3	686.6	691.4
42.5°	615.4	617.8	634.7	651.6	652.8
45°	582.8	584.0	600.9	613.0	614.2
47.5°	550.2	549.0	563.5	571.9	573.1
50°	514.0	514.0	523.7	528.5	528.5
52.5°	477.8	475.4	480.2	483.8	480.2
55°	439.2	435.6	438.0	438.0	435.6
57.5°	400.6	393.4	394.6	392.1	386.1
60°	363.2	354.7	351.1	342.7	337.8
62.5°	324.6	314.9	307.7	298.0	296.8
65°	286.0	273.9	265.5	254.6	251.0
67.5°	248.6	237.7	225.6	213.6	206.3
70°	211.2	199.1	188.2	172.5	164.1
72.5°	177.4	166.5	153.2	135.1	129.1
75°	143.6	132.7	118.2	102.6	92.9
77.5°	111.0	102.6	86.9	73.6	72.4
80°	85.7	76.0	57.9	54.3	54.3
82.5°	55.5	49.5	41.0	38.6	38.6
85°	33.8	26.5	24.1	24.1	24.1
87.5°	13.3	12.1	12.1	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)