

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: P295788

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295788  
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-3500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2264.0 lumens  
Efficiency: N/A  
Efficacy: 79.8 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

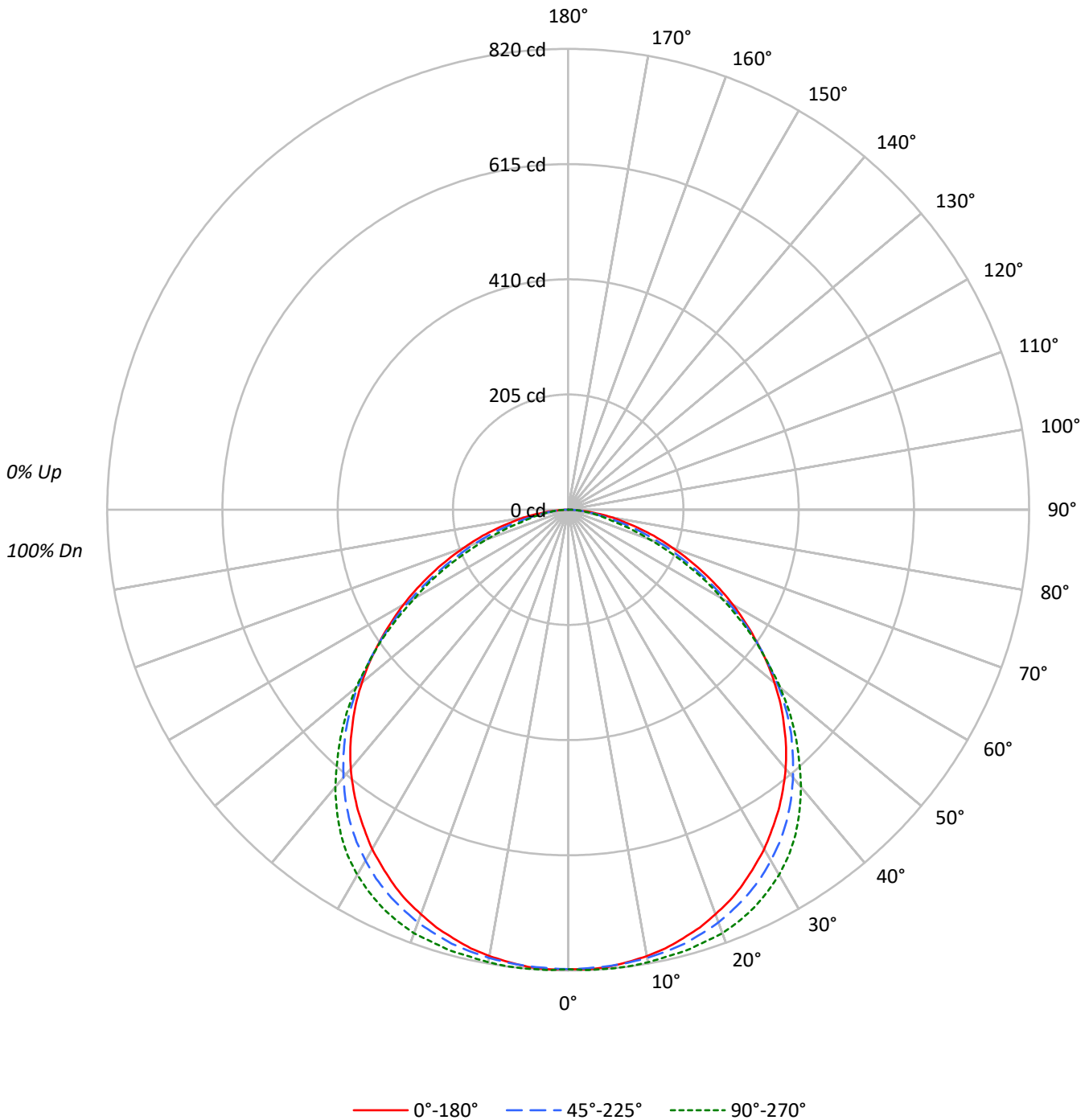
Input Watts (W): 28.365  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2200	2200	2200
5°	2206	2203	2215
10°	2203	2212	2234
15°	2199	2228	2262
20°	2193	2238	2296
25°	2184	2244	2321
30°	2167	2240	2331
35°	2143	2224	2316
40°	2114	2185	2264
45°	2067	2132	2178
50°	2006	2043	2062
55°	1921	1915	1905
60°	1822	1762	1695
65°	1697	1575	1489
70°	1548	1380	1204
75°	1391	1146	900
80°	1237	837	784
85°	973	695	695



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.8	3.4
10°-20°	226.2	10.0
20°-30°	349.1	15.4
30°-40°	423.4	18.7
40°-50°	429.9	19.0
50°-60°	363.6	16.1
60°-70°	246.0	10.9
70°-80°	119.0	5.3
80°-90°	29.0	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°	653.1	28.8
0°-40°	1076.5	47.5
0°-60°	1870.0	82.6
0°-90°	2264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2264.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	816	816	815	819	820	78
15°	790	794	800	809	812	223
25°	736	741	756	775	782	339
35°	652	659	677	698	705	408
45°	543	544	560	571	572	419
55°	409	406	408	408	406	366
65°	266	255	247	237	234	264
75°	134	124	110	96	87	143
85°	32	25	22	22	22	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	817.6	817.6	817.6	817.6	817.6
2.5°	818.7	818.7	816.5	818.7	819.9
5°	816.5	816.5	815.4	818.7	819.9
7.5°	812.0	813.1	813.1	817.6	819.9
10°	806.4	808.6	809.7	816.5	817.6
12.5°	799.6	801.9	805.2	813.1	814.2
15°	789.5	794.0	799.6	808.6	812.0
17.5°	779.4	783.9	790.6	803.0	806.4
20°	765.9	771.5	781.6	796.2	801.9
22.5°	752.4	756.9	769.3	787.2	792.9
25°	735.5	741.1	755.8	774.9	781.6
27.5°	716.4	724.3	740.0	760.3	767.0
30°	697.3	704.0	720.9	743.4	750.1
32.5°	674.8	681.5	700.7	722.0	729.9
35°	652.3	659.0	677.0	698.4	705.1
37.5°	627.5	632.0	651.2	669.2	675.9
40°	601.7	605.1	621.9	639.9	644.4
42.5°	573.6	575.8	591.6	607.3	608.4
45°	543.2	544.3	560.1	571.3	572.4
47.5°	512.8	511.7	525.2	533.1	534.2
50°	479.1	479.1	488.1	492.6	492.6
52.5°	445.4	443.1	447.6	451.0	447.6
55°	409.4	406.0	408.2	408.2	406.0
57.5°	373.4	366.6	367.8	365.5	359.9
60°	338.5	330.6	327.3	319.4	314.9
62.5°	302.5	293.5	286.8	277.8	276.7
65°	266.5	255.3	247.4	237.3	233.9
67.5°	231.7	221.6	210.3	199.1	192.3
70°	196.8	185.6	175.4	160.8	153.0
72.5°	165.3	155.2	142.8	126.0	120.3
75°	133.8	123.7	110.2	95.6	86.6
77.5°	103.5	95.6	81.0	68.6	67.5
80°	79.8	70.9	54.0	50.6	50.6
82.5°	51.7	46.1	38.2	36.0	36.0
85°	31.5	24.7	22.5	22.5	22.5
87.5°	12.4	11.2	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)