

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: P295718

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295718  
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-3500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2585.0 lumens  
Efficiency: N/A  
Efficacy: 91.1 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

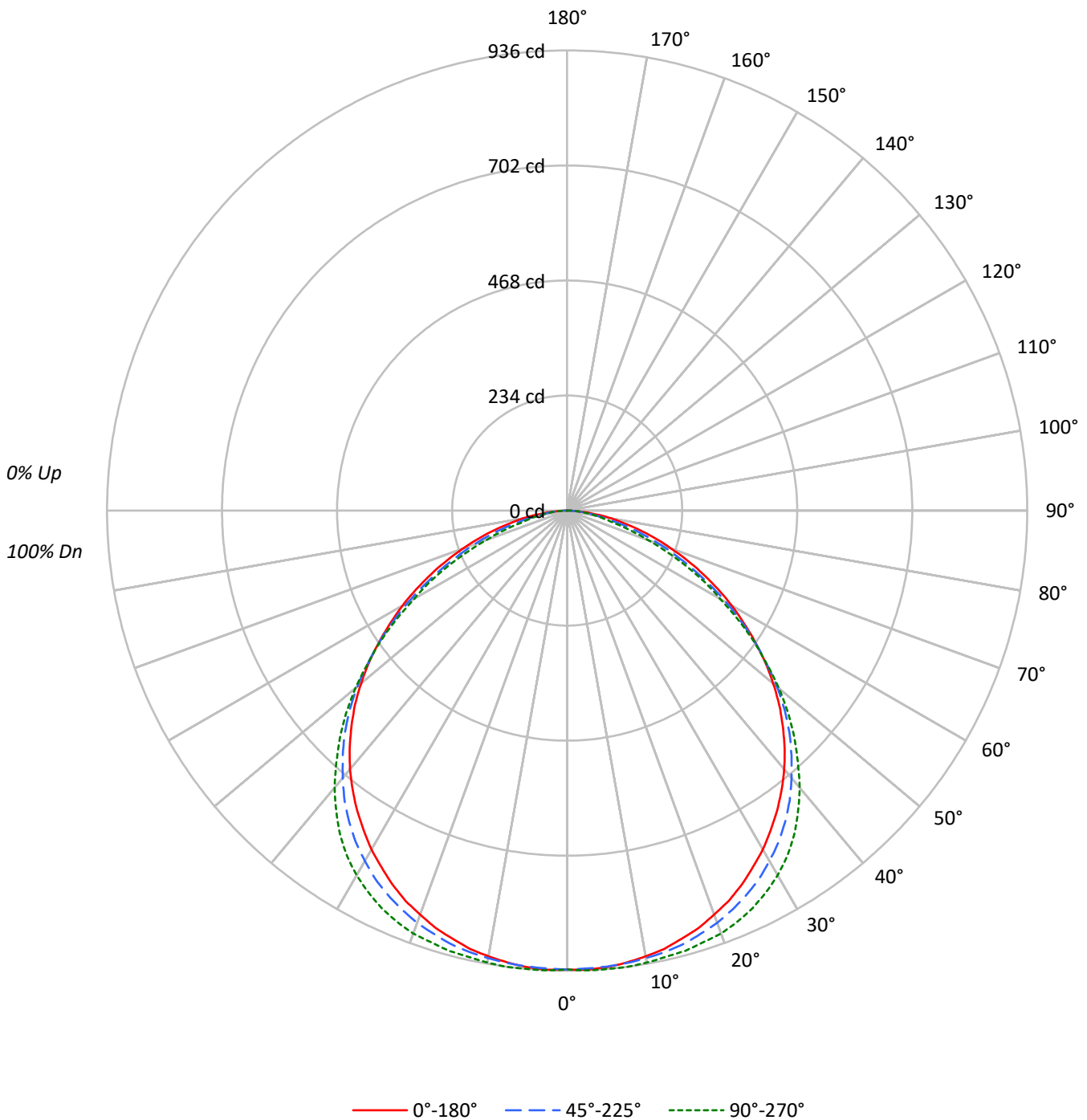
Input Watts (W): 28.365  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2512	2512	2512
5°	2518	2515	2529
10°	2516	2526	2551
15°	2511	2544	2583
20°	2504	2556	2622
25°	2494	2562	2650
30°	2474	2558	2661
35°	2447	2539	2645
40°	2413	2494	2585
45°	2360	2434	2487
50°	2290	2333	2354
55°	2193	2187	2175
60°	2080	2011	1935
65°	1938	1799	1701
70°	1768	1576	1374
75°	1589	1308	1028
80°	1413	955	896
85°	1112	794	794



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.9	3.4
10°-20°	258.3	10.0
20°-30°	398.6	15.4
30°-40°	483.4	18.7
40°-50°	490.8	19.0
50°-60°	415.2	16.1
60°-70°	280.9	10.9
70°-80°	135.8	5.3
80°-90°	33.1	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°	745.7	28.8
0°-40°	1229.1	47.5
0°-60°	2135.1	82.6
0°-90°	2585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2585.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	932	932	931	935	936	89
15°	901	907	913	923	927	255
25°	840	846	863	885	892	387
35°	745	752	773	797	805	466
45°	620	622	640	652	654	478
55°	467	464	466	466	464	418
65°	304	292	282	271	267	302
75°	153	141	126	109	99	163
85°	36	28	26	26	26	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	933.5	933.5	933.5	933.5	933.5
2.5°	934.8	934.8	932.3	934.8	936.1
5°	932.3	932.3	931.0	934.8	936.1
7.5°	927.1	928.4	928.4	933.5	936.1
10°	920.7	923.3	924.5	932.3	933.5
12.5°	913.0	915.6	919.4	928.4	929.7
15°	901.4	906.6	913.0	923.3	927.1
17.5°	889.9	895.0	902.7	916.8	920.7
20°	874.5	880.9	892.4	909.1	915.6
22.5°	859.1	864.2	878.3	898.9	905.3
25°	839.8	846.2	862.9	884.7	892.4
27.5°	818.0	827.0	844.9	868.0	875.8
30°	796.1	803.8	823.1	848.8	856.5
32.5°	770.5	778.2	800.0	824.4	833.4
35°	744.8	752.5	773.0	797.4	805.1
37.5°	716.5	721.7	743.5	764.0	771.7
40°	687.0	690.8	710.1	730.7	735.8
42.5°	654.9	657.5	675.4	693.4	694.7
45°	620.2	621.5	639.5	652.3	653.6
47.5°	585.5	584.3	599.7	608.7	609.9
50°	547.0	547.0	557.3	562.4	562.4
52.5°	508.5	505.9	511.1	514.9	511.1
55°	467.4	463.6	466.1	466.1	463.6
57.5°	426.3	418.6	419.9	417.3	410.9
60°	386.5	377.5	373.7	364.7	359.5
62.5°	345.4	335.1	327.4	317.2	315.9
65°	304.3	291.5	282.5	270.9	267.1
67.5°	264.5	253.0	240.1	227.3	219.6
70°	224.7	211.9	200.3	183.6	174.6
72.5°	188.8	177.2	163.1	143.8	137.4
75°	152.8	141.3	125.8	109.1	98.9
77.5°	118.1	109.1	92.5	78.3	77.0
80°	91.2	80.9	61.6	57.8	57.8
82.5°	59.1	52.6	43.7	41.1	41.1
85°	36.0	28.3	25.7	25.7	25.7
87.5°	14.1	12.8	12.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)