

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: P295721

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295721  
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-5000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2725.0 lumens  
Efficiency: N/A  
Efficacy: 94.2 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

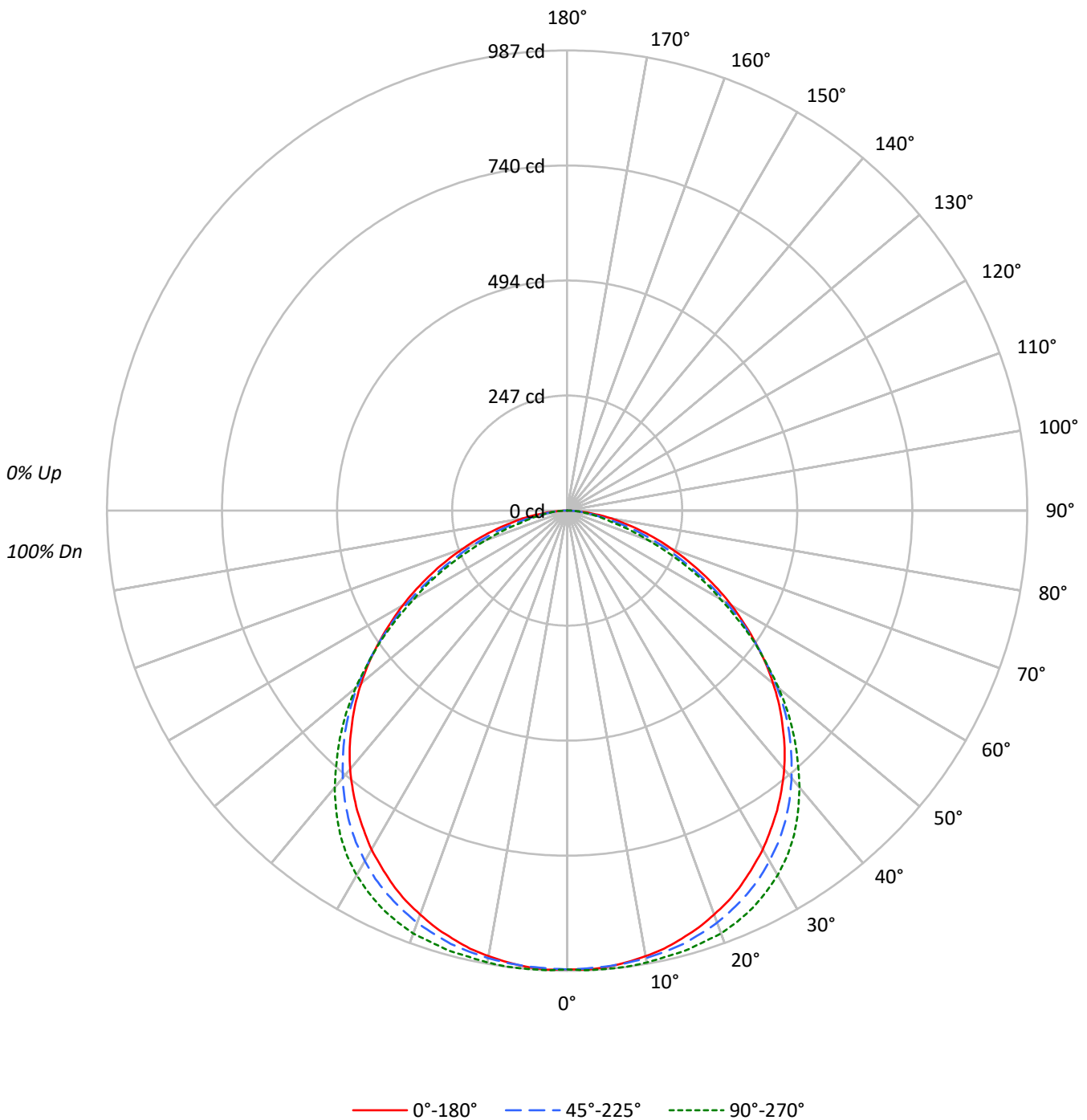
Input Watts (W): 28.923  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2648	2648	2648
5°	2655	2651	2666
10°	2652	2663	2689
15°	2647	2681	2723
20°	2640	2694	2764
25°	2629	2701	2793
30°	2608	2696	2806
35°	2579	2677	2788
40°	2544	2630	2725
45°	2488	2565	2622
50°	2414	2460	2482
55°	2312	2305	2293
60°	2193	2120	2040
65°	2043	1896	1793
70°	1864	1662	1448
75°	1675	1380	1083
80°	1489	1007	944
85°	1170	837	837



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.7	3.4
10°-20°	272.3	10.0
20°-30°	420.2	15.4
30°-40°	509.6	18.7
40°-50°	517.4	19.0
50°-60°	437.7	16.1
60°-70°	296.1	10.9
70°-80°	143.2	5.3
80°-90°	34.9	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°	786.1	28.8
0°-40°	1295.7	47.5
0°-60°	2250.8	82.6
0°-90°	2725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	983	983	981	986	987	93
15°	950	956	962	973	977	268
25°	885	892	910	933	941	408
35°	785	793	815	841	849	491
45°	654	655	674	688	689	504
55°	493	489	491	491	489	440
65°	321	307	298	286	282	318
75°	161	149	133	115	104	172
85°	38	30	27	27	27	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	984.1	984.1	984.1	984.1	984.1
2.5°	985.5	985.5	982.7	985.5	986.8
5°	982.7	982.7	981.4	985.5	986.8
7.5°	977.3	978.7	978.7	984.1	986.8
10°	970.6	973.3	974.6	982.7	984.1
12.5°	962.4	965.1	969.2	978.7	980.0
15°	950.3	955.7	962.4	973.3	977.3
17.5°	938.1	943.5	951.6	966.5	970.6
20°	921.8	928.6	940.8	958.4	965.1
22.5°	905.6	911.0	925.9	947.5	954.3
25°	885.3	892.0	909.6	932.7	940.8
27.5°	862.3	871.7	890.7	915.1	923.2
30°	839.3	847.4	867.7	894.8	902.9
32.5°	812.2	820.3	843.3	869.0	878.5
35°	785.1	793.2	814.9	840.6	848.7
37.5°	755.3	760.7	783.8	805.4	813.5
40°	724.2	728.3	748.6	770.2	775.6
42.5°	690.4	693.1	712.0	731.0	732.3
45°	653.8	655.2	674.1	687.6	689.0
47.5°	617.3	615.9	632.2	641.6	643.0
50°	576.7	576.7	587.5	592.9	592.9
52.5°	536.0	533.3	538.7	542.8	538.7
55°	492.7	488.7	491.4	491.4	488.7
57.5°	449.4	441.3	442.6	439.9	433.2
60°	407.4	398.0	393.9	384.4	379.0
62.5°	364.1	353.3	345.2	334.3	333.0
65°	320.8	307.3	297.8	285.6	281.6
67.5°	278.9	266.7	253.1	239.6	231.5
70°	236.9	223.4	211.2	193.6	184.1
72.5°	199.0	186.8	171.9	151.6	144.8
75°	161.1	148.9	132.7	115.1	104.2
77.5°	124.5	115.1	97.5	82.6	81.2
80°	96.1	85.3	65.0	60.9	60.9
82.5°	62.3	55.5	46.0	43.3	43.3
85°	37.9	29.8	27.1	27.1	27.1
87.5°	14.9	13.5	13.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)