

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: P295719

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295719  
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-4000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2642.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 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

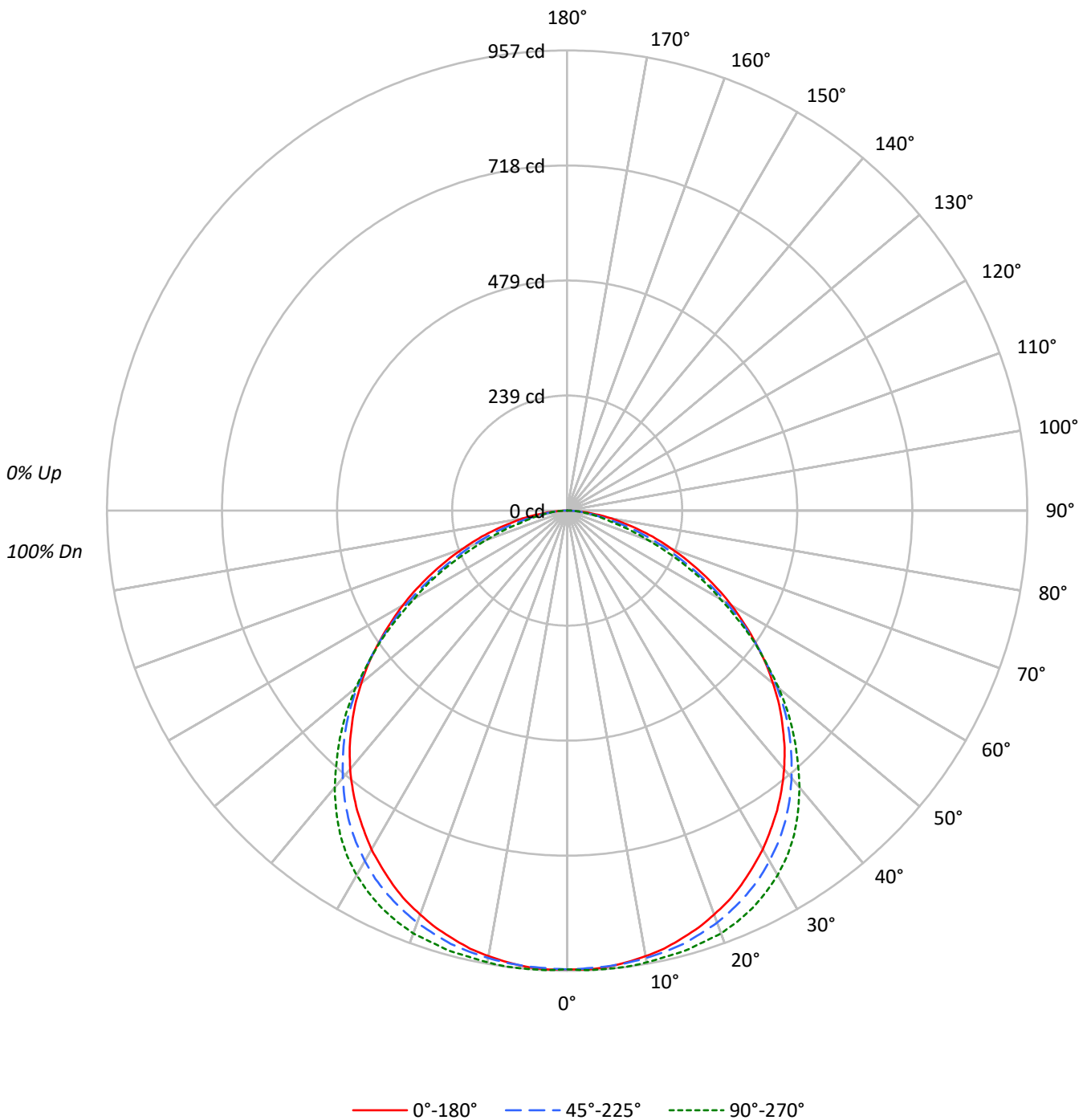
Input Watts (W): 28.644  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2567	2567	2567
5°	2574	2570	2584
10°	2571	2582	2607
15°	2567	2600	2640
20°	2560	2612	2680
25°	2548	2619	2708
30°	2528	2614	2720
35°	2501	2596	2703
40°	2466	2550	2642
45°	2412	2487	2542
50°	2341	2385	2406
55°	2241	2235	2223
60°	2126	2055	1978
65°	1980	1838	1738
70°	1807	1611	1404
75°	1624	1337	1051
80°	1444	976	916
85°	1133	809	809



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.8	3.4
10°-20°	264.0	10.0
20°-30°	407.4	15.4
30°-40°	494.1	18.7
40°-50°	501.6	19.0
50°-60°	424.3	16.1
60°-70°	287.1	10.9
70°-80°	138.8	5.3
80°-90°	33.9	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°	762.2	28.8
0°-40°	1256.2	47.5
0°-60°	2182.2	82.6
0°-90°	2642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2642.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	953	953	952	955	957	91
15°	921	927	933	944	948	260
25°	858	865	882	904	912	395
35°	761	769	790	815	823	476
45°	634	635	654	667	668	489
55°	478	474	476	476	474	427
65°	311	298	289	277	273	308
75°	156	144	129	112	101	166
85°	37	29	26	26	26	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	954.1	954.1	954.1	954.1	954.1
2.5°	955.4	955.4	952.8	955.4	956.7
5°	952.8	952.8	951.5	955.4	956.7
7.5°	947.6	948.9	948.9	954.1	956.7
10°	941.0	943.6	944.9	952.8	954.1
12.5°	933.1	935.7	939.7	948.9	950.2
15°	921.3	926.6	933.1	943.6	947.6
17.5°	909.5	914.8	922.6	937.1	941.0
20°	893.8	900.3	912.1	929.2	935.7
22.5°	878.0	883.3	897.7	918.7	925.2
25°	858.3	864.9	881.9	904.3	912.1
27.5°	836.0	845.2	863.6	887.2	895.1
30°	813.7	821.6	841.3	867.5	875.4
32.5°	787.4	795.3	817.6	842.6	851.8
35°	761.2	769.1	790.1	815.0	822.9
37.5°	732.3	737.6	759.9	780.9	788.8
40°	702.1	706.1	725.8	746.8	752.0
42.5°	669.3	672.0	690.3	708.7	710.0
45°	633.9	635.2	653.6	666.7	668.0
47.5°	598.5	597.1	612.9	622.1	623.4
50°	559.1	559.1	569.6	574.8	574.8
52.5°	519.7	517.1	522.3	526.3	522.3
55°	477.7	473.8	476.4	476.4	473.8
57.5°	435.7	427.8	429.2	426.5	420.0
60°	395.0	385.8	381.9	372.7	367.5
62.5°	353.0	342.5	334.7	324.2	322.9
65°	311.0	297.9	288.7	276.9	273.0
67.5°	270.4	258.5	245.4	232.3	224.4
70°	229.7	216.5	204.7	187.7	178.5
72.5°	192.9	181.1	166.7	147.0	140.4
75°	156.2	144.4	128.6	111.6	101.1
77.5°	120.7	111.6	94.5	80.1	78.7
80°	93.2	82.7	63.0	59.1	59.1
82.5°	60.4	53.8	44.6	42.0	42.0
85°	36.7	28.9	26.2	26.2	26.2
87.5°	14.4	13.1	13.1	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)