

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: P295722

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295722
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-5500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2752.0 lumens
Efficiency: N/A
Efficacy: 94.5 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

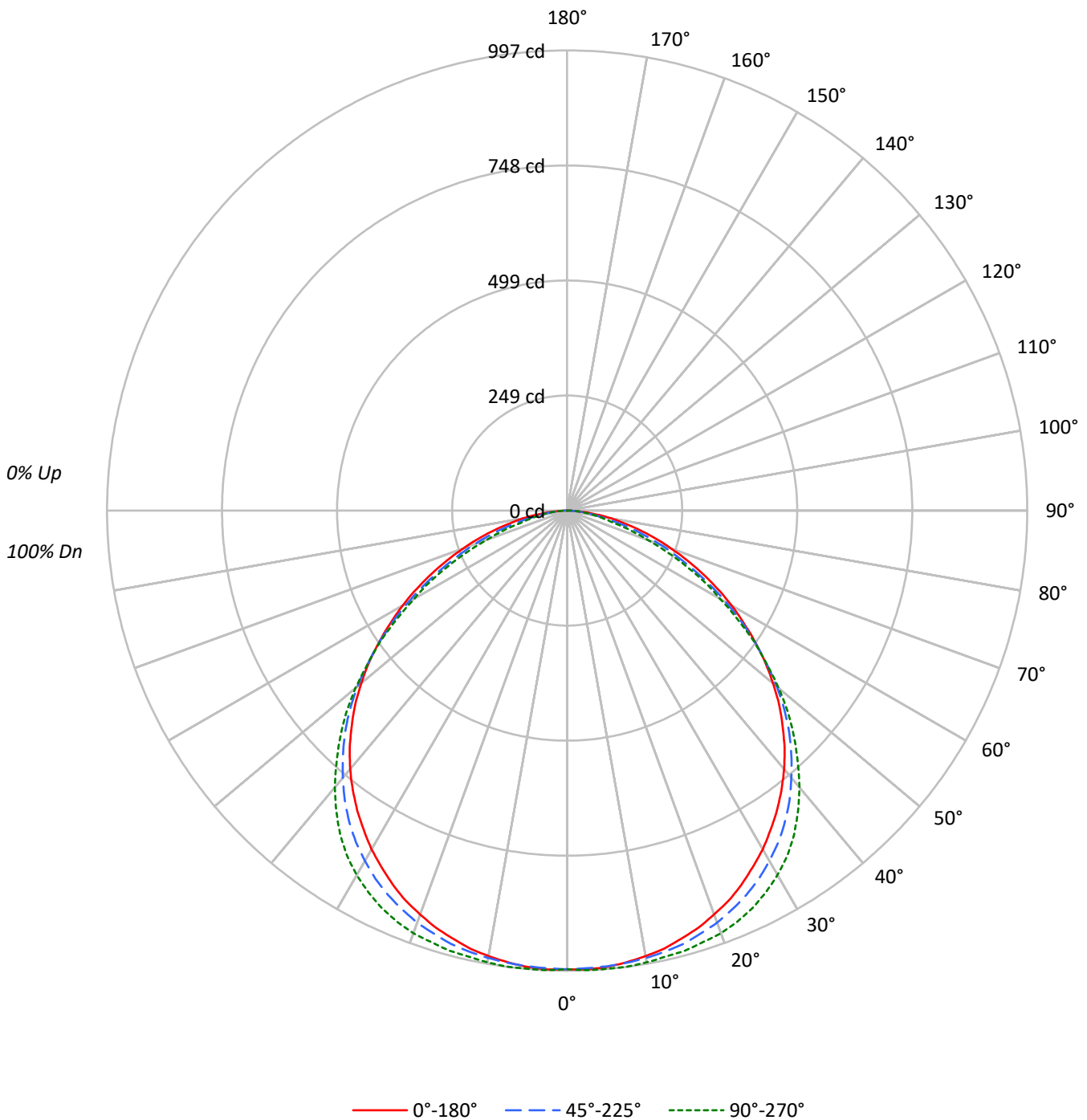
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2674	2674	2674
5°	2681	2677	2692
10°	2678	2690	2716
15°	2674	2708	2750
20°	2666	2721	2791
25°	2655	2728	2821
30°	2634	2723	2833
35°	2605	2704	2816
40°	2569	2656	2752
45°	2513	2591	2648
50°	2438	2484	2507
55°	2335	2328	2315
60°	2215	2141	2060
65°	2063	1915	1810
70°	1882	1678	1463
75°	1692	1393	1095
80°	1505	1017	953
85°	1183	843	843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	3.4
10°-20°	275.0	10.0
20°-30°	424.3	15.4
30°-40°	514.6	18.7
40°-50°	522.5	19.0
50°-60°	442.0	16.1
60°-70°	299.1	10.9
70°-80°	144.6	5.3
80°-90°	35.3	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°	793.9	28.8
0°-40°	1308.5	47.5
0°-60°	2273.1	82.6
0°-90°	2752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	992	992	991	995	997	94
15°	960	965	972	983	987	271
25°	894	901	919	942	950	412
35°	793	801	823	849	857	496
45°	660	662	681	694	696	509
55°	498	494	496	496	494	445
65°	324	310	301	288	284	321
75°	163	150	134	116	105	173
85°	38	30	27	27	27	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.8	993.8	993.8	993.8	993.8
2.5°	995.2	995.2	992.5	995.2	996.6
5°	992.5	992.5	991.1	995.2	996.6
7.5°	987.0	988.4	988.4	993.8	996.6
10°	980.2	982.9	984.3	992.5	993.8
12.5°	972.0	974.7	978.8	988.4	989.7
15°	959.7	965.1	972.0	982.9	987.0
17.5°	947.4	952.8	961.0	976.1	980.2
20°	931.0	937.8	950.1	967.9	974.7
22.5°	914.6	920.0	935.1	956.9	963.8
25°	894.1	900.9	918.7	941.9	950.1
27.5°	870.8	880.4	899.5	924.1	932.3
30°	847.6	855.8	876.3	903.6	911.8
32.5°	820.2	828.4	851.7	877.6	887.2
35°	792.9	801.1	823.0	848.9	857.1
37.5°	762.8	768.3	791.5	813.4	821.6
40°	731.4	735.5	756.0	777.9	783.3
42.5°	697.2	699.9	719.1	738.2	739.6
45°	660.3	661.7	680.8	694.5	695.8
47.5°	623.4	622.0	638.4	648.0	649.4
50°	582.4	582.4	593.3	598.8	598.8
52.5°	541.4	538.6	544.1	548.2	544.1
55°	497.6	493.5	496.2	496.2	493.5
57.5°	453.9	445.7	447.0	444.3	437.5
60°	411.5	401.9	397.8	388.2	382.8
62.5°	367.7	356.8	348.6	337.7	336.3
65°	324.0	310.3	300.8	288.4	284.3
67.5°	281.6	269.3	255.6	242.0	233.8
70°	239.2	225.6	213.3	195.5	185.9
72.5°	201.0	188.7	173.6	153.1	146.3
75°	162.7	150.4	134.0	116.2	105.3
77.5°	125.8	116.2	98.4	83.4	82.0
80°	97.1	86.1	65.6	61.5	61.5
82.5°	62.9	56.0	46.5	43.7	43.7
85°	38.3	30.1	27.3	27.3	27.3
87.5°	15.0	13.7	13.7	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)