

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: P229501

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-40-RDP-UNV-L930-CD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH RDP LENS
Light Source: (112)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2866.0 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

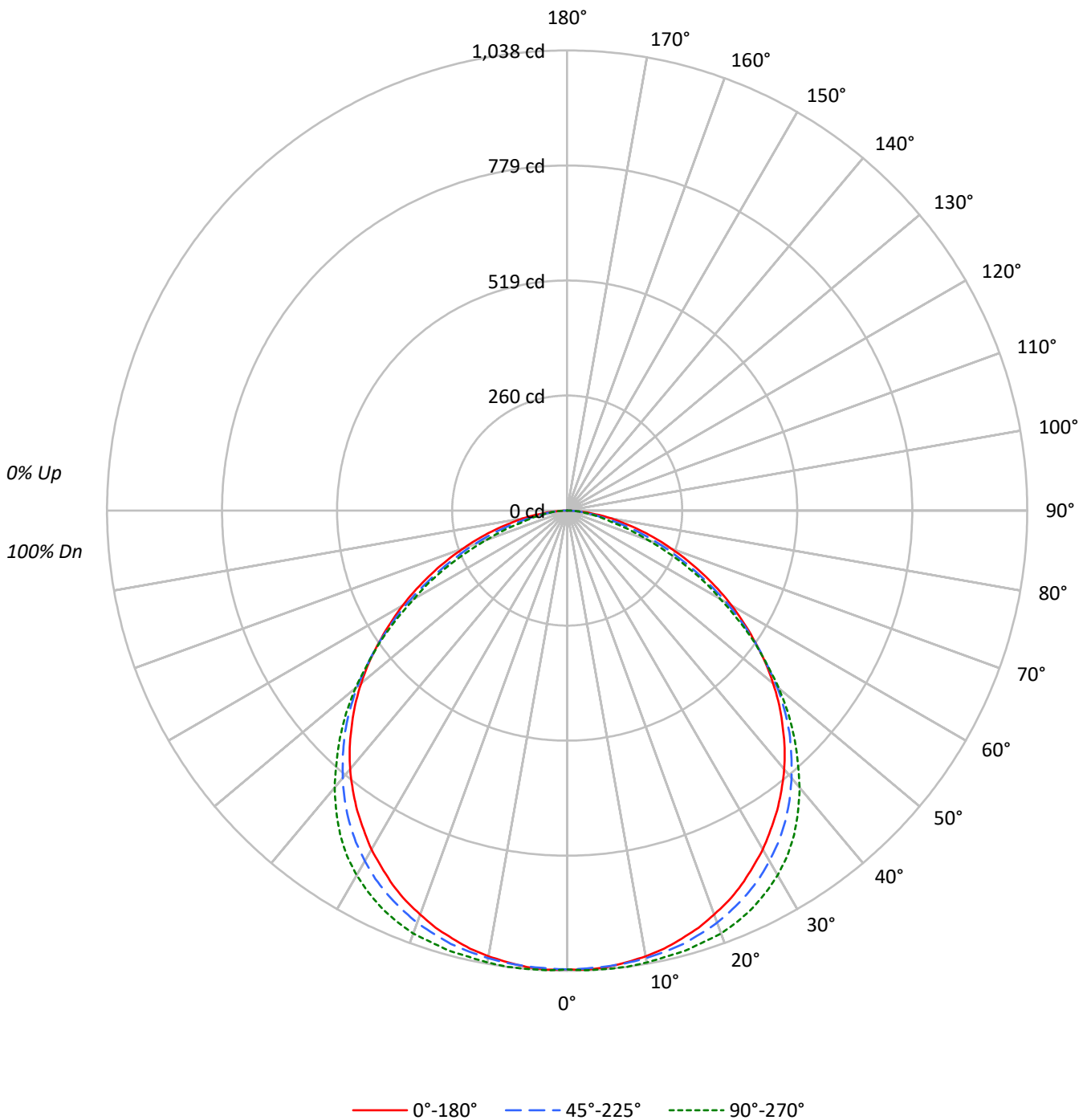
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229501

CATALOG NUMBER: 14RLN-LD5-40-RDP-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229501

CATALOG NUMBER: 14RLN-LD5-40-RDP-UNV-L930-CD1-U

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°	3488	3488	3488
5°	3496	3491	3511
10°	3493	3507	3541
15°	3486	3531	3586
20°	3476	3548	3640
25°	3462	3557	3679
30°	3434	3551	3695
35°	3397	3526	3672
40°	3350	3463	3588
45°	3277	3379	3453
50°	3179	3239	3269
55°	3044	3036	3019
60°	2888	2792	2686
65°	2690	2497	2361
70°	2454	2188	1907
75°	2205	1816	1427
80°	1962	1325	1244
85°	1543	1102	1102



TEST NUMBER: P229501

CATALOG NUMBER: 14RLN-LD5-40-RDP-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	3.4
10°-20°	286.3	10.0
20°-30°	441.9	15.4
30°-40°	536.0	18.7
40°-50°	544.2	19.0
50°-60°	460.3	16.1
60°-70°	311.4	10.9
70°-80°	150.6	5.3
80°-90°	36.7	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°	826.8	28.8
0°-40°	1362.7	47.5
0°-60°	2367.2	82.6
0°-90°	2866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1034	1034	1032	1036	1038	98
15°	999	1005	1012	1024	1028	282
25°	931	938	957	981	990	429
35°	826	834	857	884	893	516
45°	688	689	709	723	725	530
55°	518	514	517	517	514	463
65°	337	323	313	300	296	334
75°	169	157	140	121	110	181
85°	40	31	28	28	28	47
90°	0	0	0	0	0	



TEST NUMBER: P229501

CATALOG NUMBER: 14RLN-LD5-40-RDP-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1035.0	1035.0	1035.0	1035.0	1035.0
2.5°	1036.4	1036.4	1033.6	1036.4	1037.9
5°	1033.6	1033.6	1032.2	1036.4	1037.9
7.5°	1027.9	1029.3	1029.3	1035.0	1037.9
10°	1020.8	1023.6	1025.1	1033.6	1035.0
12.5°	1012.2	1015.1	1019.4	1029.3	1030.7
15°	999.4	1005.1	1012.2	1023.6	1027.9
17.5°	986.6	992.3	1000.8	1016.5	1020.8
20°	969.5	976.6	989.5	1008.0	1015.1
22.5°	952.4	958.1	973.8	996.6	1003.7
25°	931.1	938.2	956.7	980.9	989.5
27.5°	906.9	916.9	936.8	962.4	971.0
30°	882.7	891.2	912.6	941.1	949.6
32.5°	854.2	862.8	887.0	914.0	924.0
35°	825.7	834.3	857.1	884.1	892.6
37.5°	794.4	800.1	824.3	847.1	855.6
40°	761.7	765.9	787.3	810.1	815.8
42.5°	726.1	728.9	748.9	768.8	770.2
45°	687.6	689.1	709.0	723.2	724.7
47.5°	649.2	647.8	664.9	674.8	676.2
50°	606.5	606.5	617.9	623.6	623.6
52.5°	563.8	560.9	566.6	570.9	566.6
55°	518.2	513.9	516.8	516.8	513.9
57.5°	472.7	464.1	465.5	462.7	455.6
60°	428.5	418.6	414.3	404.3	398.6
62.5°	383.0	371.6	363.0	351.6	350.2
65°	337.4	323.2	313.2	300.4	296.1
67.5°	293.3	280.5	266.2	252.0	243.4
70°	249.1	234.9	222.1	203.6	193.6
72.5°	209.3	196.5	180.8	159.5	152.3
75°	169.4	156.6	139.5	121.0	109.6
77.5°	131.0	121.0	102.5	86.8	85.4
80°	101.1	89.7	68.3	64.1	64.1
82.5°	65.5	58.4	48.4	45.6	45.6
85°	39.9	31.3	28.5	28.5	28.5
87.5°	15.7	14.2	14.2	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)