

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: P229631

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229631  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-44-RDP-UNV-L930-CD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS  
Light Source: (126)3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2972.0 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

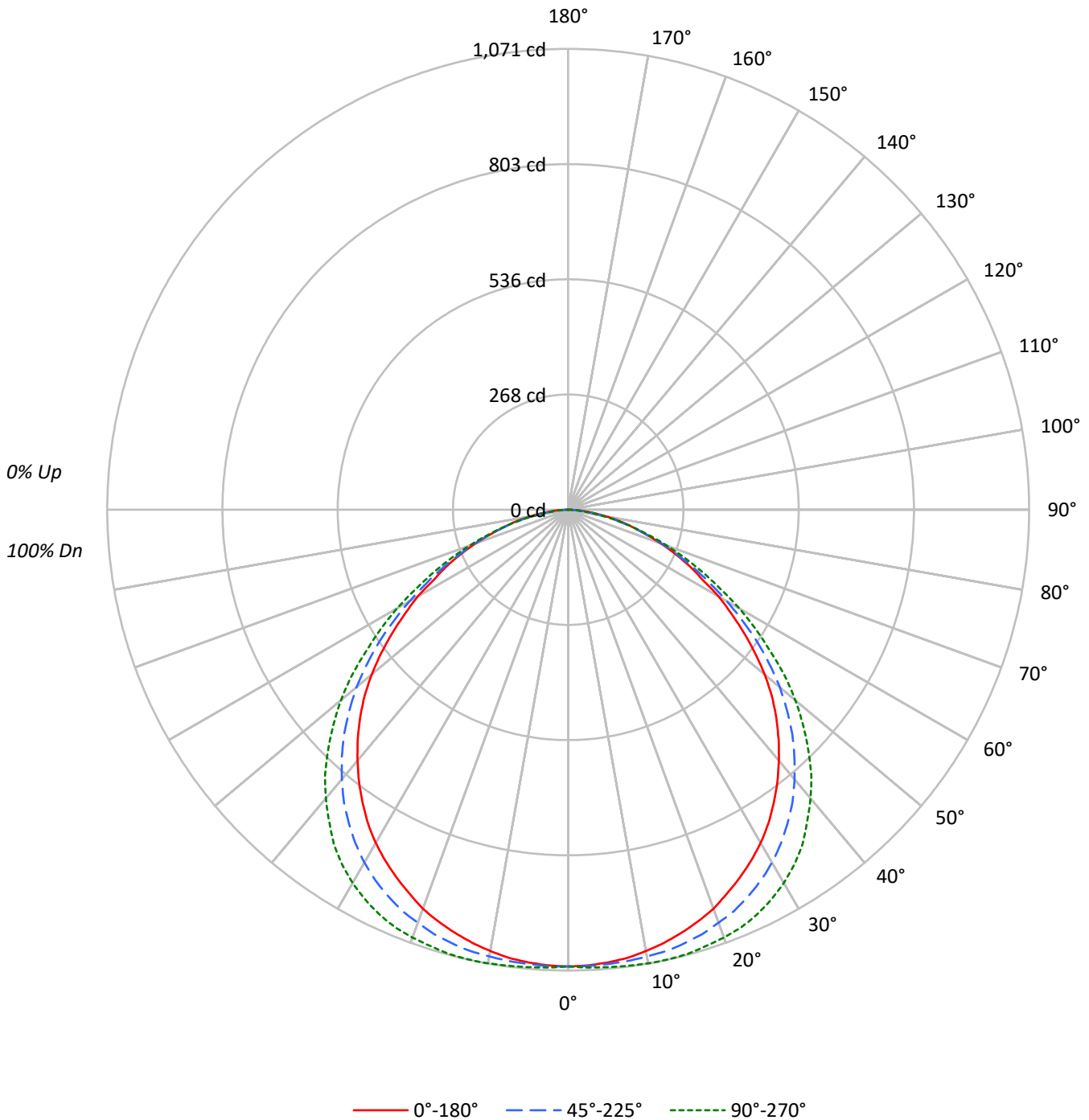
Input Watts (W): 39.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P229631

CATALOG NUMBER: 22RLN-LD5-44-RDP-UNV-L930-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P229631

CATALOG NUMBER: 22RLN-LD5-44-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	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	3400	3400	3400
5°	3396	3407	3431
10°	3387	3429	3482
15°	3375	3459	3544
20°	3364	3482	3606
25°	3334	3501	3668
30°	3308	3502	3704
35°	3255	3475	3710
40°	3184	3420	3663
45°	3096	3334	3573
50°	2970	3197	3433
55°	2781	2994	3197
60°	2585	2725	2946
65°	2370	2452	2617
70°	2144	2179	2281
75°	1889	1845	1912
80°	1643	1509	1442
85°	1338	1003	867



TEST NUMBER: P229631

CATALOG NUMBER: 22RLN-LD5-44-RDP-UNV-L930-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.1	3.4
10°-20°	294.8	9.9
20°-30°	456.7	15.4
30°-40°	555.8	18.7
40°-50°	566.1	19.0
50°-60°	477.4	16.1
60°-70°	322.9	10.9
70°-80°	161.4	5.4
80°-90°	35.9	1.2
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°	852.5	28.7
0°-40°	1408.3	47.4
0°-60°	2451.8	82.5
0°-90°	2972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2972.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1056	1058	1060	1065	1067	100
15°	1018	1025	1043	1062	1069	287
25°	944	958	991	1023	1038	435
35°	833	851	889	931	949	520
45°	684	696	736	774	789	526
55°	498	505	536	562	573	446
65°	313	307	324	338	345	309
75°	153	147	149	151	154	164
85°	36	31	27	24	24	42
90°	0	0	0	0	0	



TEST NUMBER: P229631

CATALOG NUMBER: 22RLN-LD5-44-RDP-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1061.6	1061.6	1061.6	1061.6	1061.6
2.5°	1059.8	1059.8	1061.6	1063.4	1065.2
5°	1056.2	1058.0	1059.8	1065.2	1067.1
7.5°	1050.7	1052.5	1058.0	1065.2	1068.9
10°	1041.6	1045.2	1054.3	1065.2	1070.7
12.5°	1030.7	1036.2	1050.7	1063.4	1070.7
15°	1018.0	1025.3	1043.4	1061.6	1068.9
17.5°	1003.4	1012.5	1034.3	1054.3	1063.4
20°	987.1	998.0	1021.6	1047.1	1058.0
22.5°	965.3	979.8	1008.9	1038.0	1050.7
25°	943.5	958.0	990.7	1023.4	1038.0
27.5°	919.8	936.2	970.7	1007.1	1021.6
30°	894.4	908.9	947.1	985.3	1001.6
32.5°	865.3	879.8	919.8	959.8	978.0
35°	832.6	850.7	888.9	930.7	948.9
37.5°	798.0	814.4	856.2	896.2	912.5
40°	761.7	778.0	818.0	859.8	876.2
42.5°	723.5	739.9	778.0	818.0	836.2
45°	683.5	696.2	736.2	774.4	788.9
47.5°	641.7	650.8	689.0	725.3	739.9
50°	596.2	605.3	641.7	674.4	689.0
52.5°	547.2	554.4	589.0	618.1	634.4
55°	498.1	505.4	536.3	561.7	572.6
57.5°	449.0	452.6	479.9	505.4	516.3
60°	403.6	403.6	425.4	445.4	459.9
62.5°	350.8	356.3	372.7	392.6	398.1
65°	312.7	307.2	323.6	338.1	345.4
67.5°	269.0	265.4	276.3	289.0	292.7
70°	229.0	223.6	232.7	240.0	243.6
72.5°	187.2	185.4	189.1	194.5	196.3
75°	152.7	147.2	149.1	150.9	154.5
77.5°	121.8	112.7	114.5	112.7	114.5
80°	89.1	81.8	81.8	80.0	78.2
82.5°	60.0	56.4	52.7	49.1	47.3
85°	36.4	30.9	27.3	23.6	23.6
87.5°	14.5	10.9	9.1	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)