

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: P229637

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229637  
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-L935-CD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS  
Light Source: (126)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3083.0 lumens  
Efficiency: N/A  
Efficacy: 77.9 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

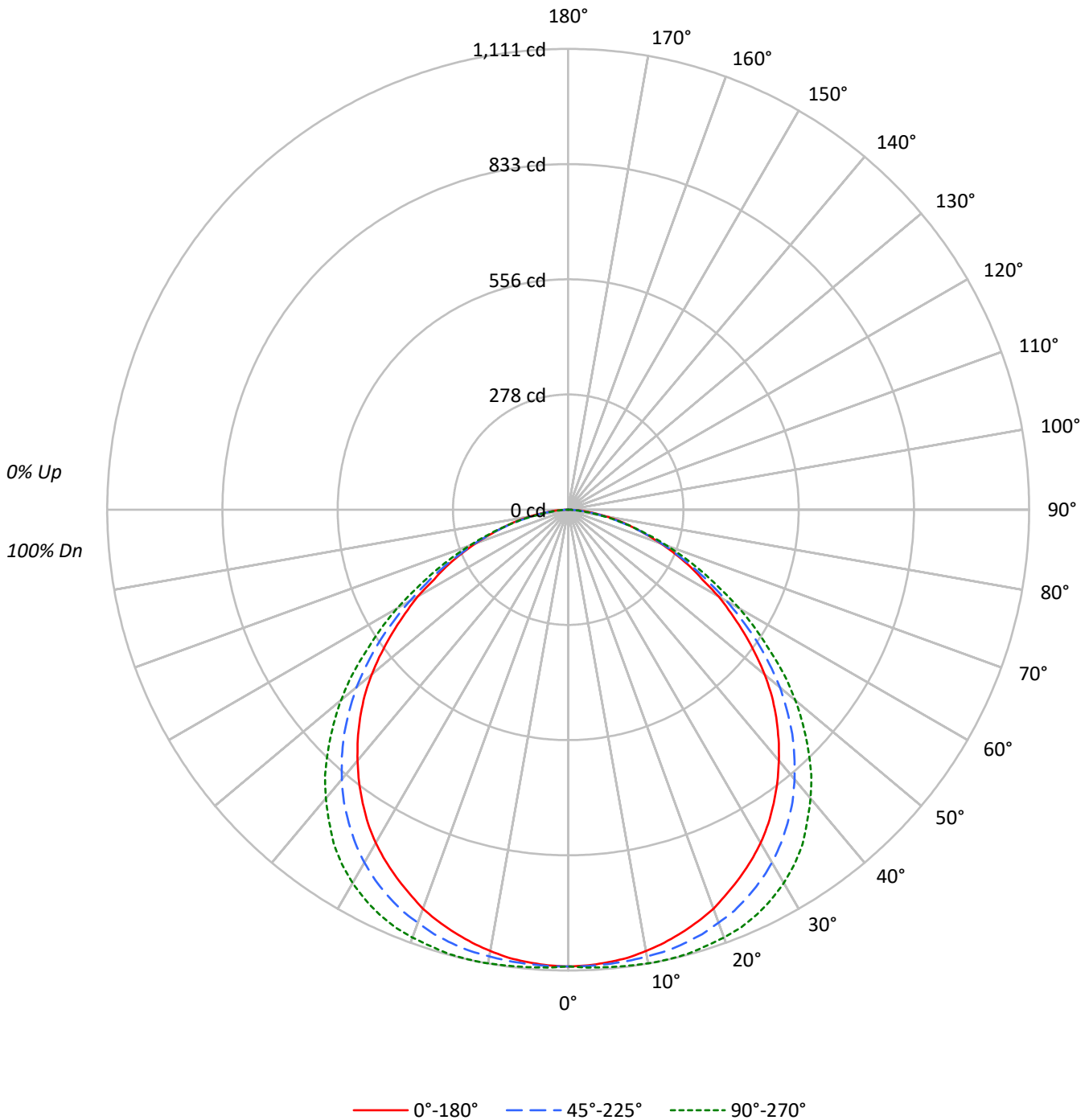
Input Watts (W): 39.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3527	3527	3527
5°	3522	3534	3559
10°	3514	3557	3612
15°	3501	3589	3676
20°	3490	3612	3740
25°	3458	3632	3805
30°	3431	3633	3842
35°	3377	3605	3848
40°	3303	3548	3800
45°	3211	3459	3707
50°	3082	3317	3561
55°	2885	3106	3317
60°	2681	2827	3056
65°	2458	2544	2715
70°	2225	2260	2366
75°	1960	1913	1984
80°	1704	1566	1496
85°	1385	1040	900



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.9	3.4
10°-20°	305.8	9.9
20°-30°	473.7	15.4
30°-40°	576.6	18.7
40°-50°	587.2	19.0
50°-60°	495.2	16.1
60°-70°	335.0	10.9
70°-80°	167.4	5.4
80°-90°	37.2	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°	884.4	28.7
0°-40°	1461.0	47.4
0°-60°	2543.4	82.5
0°-90°	3083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3083.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1096	1098	1099	1105	1107	104
15°	1056	1064	1082	1101	1109	298
25°	979	994	1028	1062	1077	451
35°	864	882	922	966	984	540
45°	709	722	764	803	818	546
55°	517	524	556	583	594	462
65°	324	319	336	351	358	320
75°	158	153	155	156	160	170
85°	38	32	28	24	24	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1101.3	1101.3	1101.3	1101.3	1101.3
2.5°	1099.4	1099.4	1101.3	1103.1	1105.0
5°	1095.6	1097.5	1099.4	1105.0	1106.9
7.5°	1089.9	1091.8	1097.5	1105.0	1108.8
10°	1080.5	1084.3	1093.7	1105.0	1110.7
12.5°	1069.2	1074.9	1089.9	1103.1	1110.7
15°	1056.0	1063.5	1082.4	1101.3	1108.8
17.5°	1040.9	1050.3	1073.0	1093.7	1103.1
20°	1023.9	1035.3	1059.8	1086.2	1097.5
22.5°	1001.3	1016.4	1046.6	1076.7	1089.9
25°	978.7	993.8	1027.7	1061.7	1076.7
27.5°	954.2	971.1	1007.0	1044.7	1059.8
30°	927.8	942.9	982.5	1022.1	1039.0
32.5°	897.6	912.7	954.2	995.7	1014.5
35°	863.7	882.5	922.1	965.5	984.3
37.5°	827.8	844.8	888.2	929.7	946.6
40°	790.1	807.1	848.6	891.9	908.9
42.5°	750.5	767.5	807.1	848.6	867.4
45°	709.0	722.2	763.7	803.3	818.4
47.5°	665.7	675.1	714.7	752.4	767.5
50°	618.5	627.9	665.7	699.6	714.7
52.5°	567.6	575.1	611.0	641.1	658.1
55°	516.7	524.2	556.3	582.7	594.0
57.5°	465.8	469.5	497.8	524.2	535.5
60°	418.6	418.6	441.3	462.0	477.1
62.5°	363.9	369.6	386.6	407.3	413.0
65°	324.3	318.7	335.7	350.7	358.3
67.5°	279.1	275.3	286.6	299.8	303.6
70°	237.6	231.9	241.4	248.9	252.7
72.5°	194.2	192.3	196.1	201.8	203.7
75°	158.4	152.7	154.6	156.5	160.3
77.5°	126.3	116.9	118.8	116.9	118.8
80°	92.4	84.9	84.9	83.0	81.1
82.5°	62.2	58.5	54.7	50.9	49.0
85°	37.7	32.1	28.3	24.5	24.5
87.5°	15.1	11.3	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)