

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: P238737

Luminaire Tested: **14ENA-LD2-43-UNV-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238737  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-395-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14ENA-LD2-43-UNV-L930-CD1-U  
Description: METALUX ENCOUNTER 1X4 LED TROFFER  
AIR-VENTED OPTION  
Light Source: (224)3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3123.8 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 0.67' x L: 3.83' x H: 0')  
CIE Type: Direct

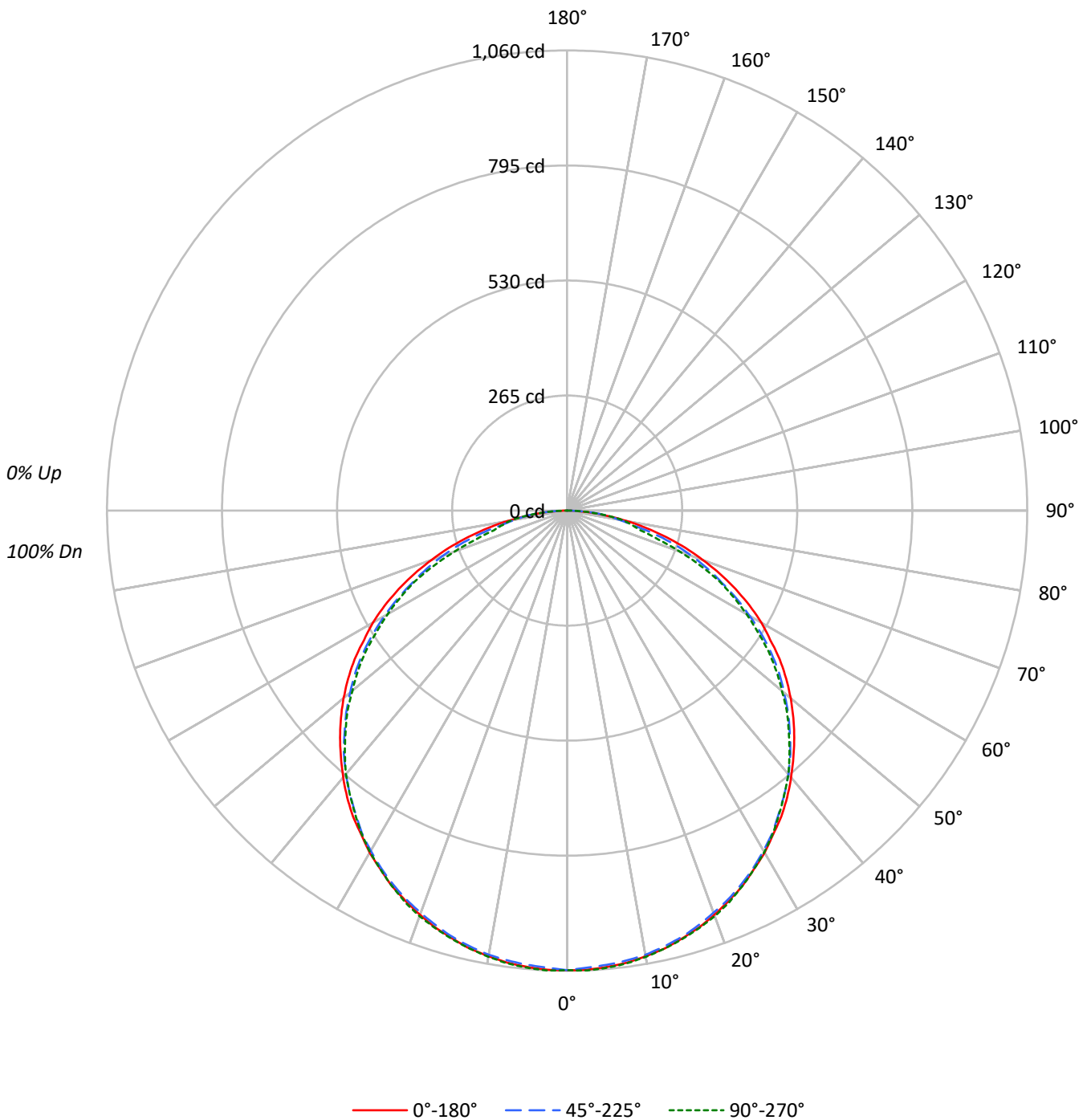
Input Watts (W): 37.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	4459	4459	4459
5°	4462	4441	4469
10°	4457	4443	4464
15°	4451	4436	4458
20°	4442	4420	4457
25°	4436	4414	4436
30°	4426	4402	4418
35°	4425	4374	4382
40°	4414	4359	4359
45°	4407	4319	4299
50°	4405	4275	4232
55°	4391	4221	4160
60°	4354	4091	4021
65°	4264	3918	3868
70°	4089	3762	3396
75°	3844	3387	2850
80°	3406	2925	3204
85°	2634	3035	2875



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.2	3.2
10°-20°	287.9	9.2
20°-30°	438.9	14.0
30°-40°	534.4	17.1
40°-50°	561.9	18.0
50°-60°	515.8	16.5
60°-70°	396.3	12.7
70°-80°	221.2	7.1
80°-90°	67.2	2.1
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°	827.0	26.5
0°-40°	1361.5	43.6
0°-60°	2439.2	78.1
0°-90°	3123.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3123.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1055	1055	1050	1055	1057	100
15°	1021	1021	1017	1021	1022	288
25°	955	951	950	953	955	440
35°	860	857	851	852	852	538
45°	740	735	725	722	722	571
55°	598	593	575	565	566	533
65°	428	416	393	388	388	423
75°	236	225	208	180	175	250
85°	54	56	63	61	60	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1058.7	1058.7	1058.7	1058.7	1058.7
2.5°	1058.7	1058.7	1053.7	1058.7	1060.3
5°	1055.4	1055.4	1050.4	1055.4	1057.0
7.5°	1050.4	1050.4	1045.5	1048.8	1052.1
10°	1042.2	1042.2	1038.8	1042.2	1043.8
12.5°	1033.9	1032.2	1028.9	1032.2	1033.9
15°	1020.7	1020.7	1017.4	1020.7	1022.3
17.5°	1007.5	1005.8	1002.5	1007.5	1009.1
20°	991.0	989.3	986.0	991.0	994.3
22.5°	972.8	971.1	969.5	974.4	976.1
25°	954.6	951.3	949.7	953.0	954.6
27.5°	931.5	929.8	928.2	929.8	931.5
30°	910.0	906.7	905.1	905.1	908.4
32.5°	883.6	881.9	880.3	881.9	881.9
35°	860.5	857.2	850.6	852.2	852.2
37.5°	832.4	827.4	822.5	822.5	822.5
40°	802.7	799.4	792.8	791.1	792.8
42.5°	771.3	768.0	761.4	756.4	758.1
45°	739.9	735.0	725.0	721.7	721.7
47.5°	706.9	701.9	690.4	685.4	687.1
50°	672.2	665.6	652.4	645.8	645.8
52.5°	635.9	629.3	616.0	607.8	607.8
55°	597.9	592.9	574.8	564.8	566.5
57.5°	554.9	550.0	531.8	520.3	520.3
60°	516.9	507.0	485.6	477.3	477.3
62.5°	474.0	462.4	441.0	431.1	432.7
65°	427.8	416.2	393.1	388.1	388.1
67.5°	381.5	371.6	350.1	341.9	333.6
70°	332.0	322.1	305.5	285.7	275.8
72.5°	285.7	274.2	259.3	229.6	219.7
75°	236.2	224.6	208.1	180.0	175.1
77.5°	188.3	178.4	155.2	148.6	151.9
80°	140.4	137.1	120.6	127.2	132.1
82.5°	94.1	92.5	95.8	99.1	99.1
85°	54.5	56.2	62.8	61.1	59.5
87.5°	23.1	28.1	26.4	26.4	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)