

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: P238725

Luminaire Tested: **14ENA-LD2-28-UNV-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238725  
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-LD2-28-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**

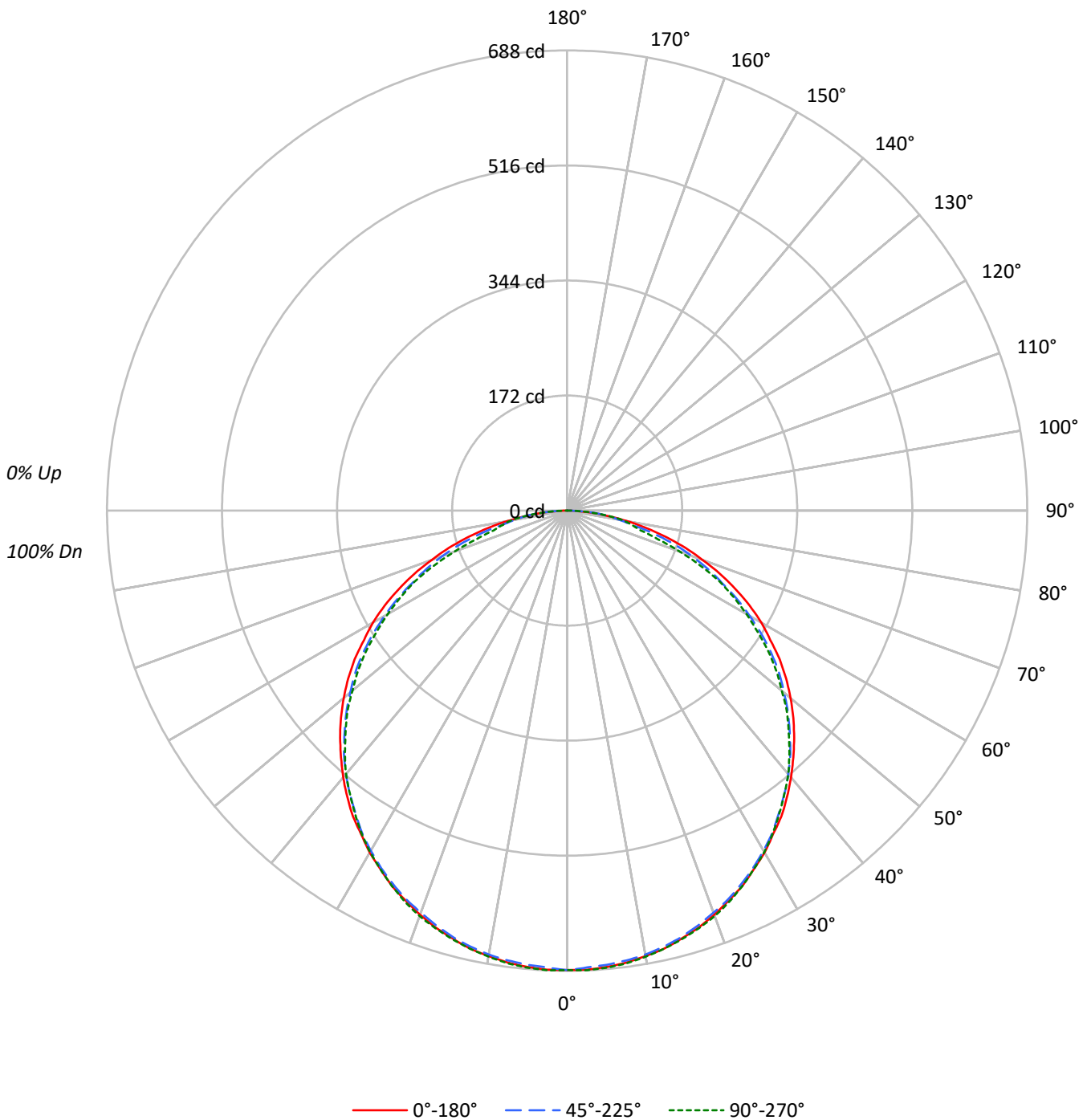
Lumens per Lamp: N/A  
Luminaire Lumens: 2027.0 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 0.67' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.6  
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°	2894	2894	2894
5°	2895	2882	2900
10°	2892	2883	2897
15°	2888	2879	2893
20°	2882	2868	2892
25°	2879	2864	2879
30°	2872	2856	2867
35°	2871	2838	2843
40°	2864	2828	2828
45°	2860	2803	2789
50°	2858	2774	2746
55°	2849	2739	2699
60°	2825	2654	2609
65°	2767	2542	2511
70°	2653	2442	2204
75°	2495	2197	1849
80°	2210	1897	2079
85°	1711	1967	1865



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.0	3.2
10°-20°	186.8	9.2
20°-30°	284.8	14.0
30°-40°	346.8	17.1
40°-50°	364.6	18.0
50°-60°	334.7	16.5
60°-70°	257.2	12.7
70°-80°	143.5	7.1
80°-90°	43.6	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°	536.7	26.5
0°-40°	883.5	43.6
0°-60°	1582.8	78.1
0°-90°	2027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2027.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	685	685	682	685	686	65
15°	662	662	660	662	663	187
25°	620	617	616	618	620	285
35°	558	556	552	553	553	349
45°	480	477	470	468	468	370
55°	388	385	373	366	368	346
65°	278	270	255	252	252	274
75°	153	146	135	117	114	162
85°	35	36	41	40	39	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	687.0	687.0	687.0	687.0	687.0
2.5°	687.0	687.0	683.8	687.0	688.0
5°	684.8	684.8	681.6	684.8	685.9
7.5°	681.6	681.6	678.4	680.5	682.7
10°	676.3	676.3	674.1	676.3	677.3
12.5°	670.9	669.8	667.7	669.8	670.9
15°	662.3	662.3	660.2	662.3	663.4
17.5°	653.8	652.7	650.5	653.8	654.8
20°	643.0	642.0	639.8	643.0	645.2
22.5°	631.2	630.2	629.1	632.3	633.4
25°	619.5	617.3	616.2	618.4	619.5
27.5°	604.5	603.4	602.3	603.4	604.5
30°	590.5	588.4	587.3	587.3	589.4
32.5°	573.4	572.3	571.2	572.3	572.3
35°	558.4	556.2	551.9	553.0	553.0
37.5°	540.1	536.9	533.7	533.7	533.7
40°	520.9	518.7	514.4	513.4	514.4
42.5°	500.5	498.4	494.1	490.8	491.9
45°	480.1	476.9	470.5	468.3	468.3
47.5°	458.7	455.5	448.0	444.8	445.8
50°	436.2	431.9	423.3	419.0	419.0
52.5°	412.6	408.3	399.8	394.4	394.4
55°	388.0	384.7	373.0	366.5	367.6
57.5°	360.1	356.9	345.1	337.6	337.6
60°	335.4	329.0	315.1	309.7	309.7
62.5°	307.6	300.1	286.2	279.7	280.8
65°	277.6	270.1	255.1	251.9	251.9
67.5°	247.6	241.1	227.2	221.8	216.5
70°	215.4	209.0	198.3	185.4	179.0
72.5°	185.4	177.9	168.3	149.0	142.5
75°	153.3	145.8	135.0	116.8	113.6
77.5°	122.2	115.7	100.7	96.5	98.6
80°	91.1	89.0	78.2	82.5	85.7
82.5°	61.1	60.0	62.2	64.3	64.3
85°	35.4	36.4	40.7	39.7	38.6
87.5°	15.0	18.2	17.1	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)