

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: P238842

Luminaire Tested: **22EN-LD2-34-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-118-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22EN-LD2-34-UNV-L935-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
STANDARD OPTION  
Light Source: (168)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2988.6 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

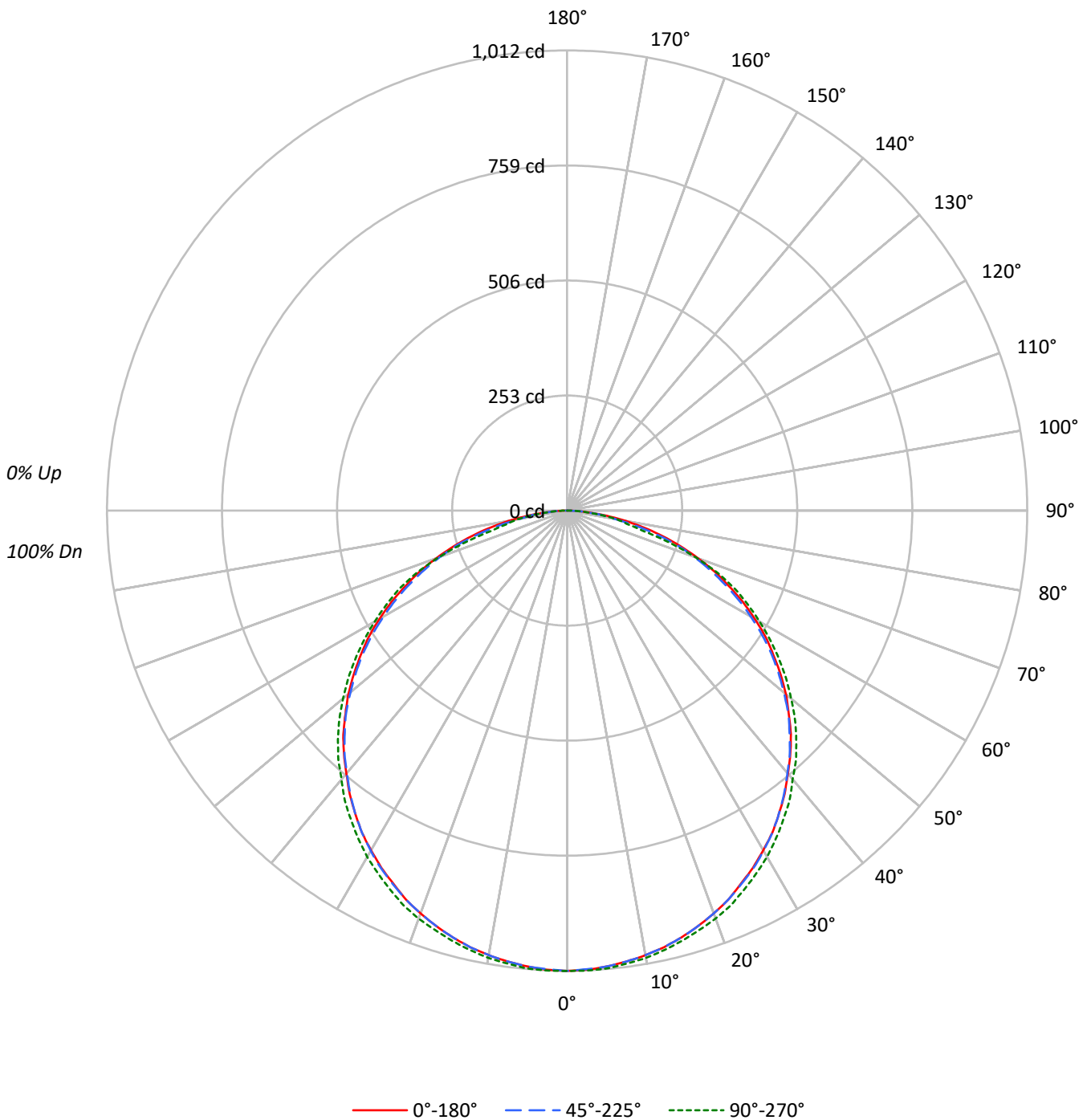
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	94	97	94	91	93	91	88	90	88	86	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	39	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°	3242	3242	3242
5°	3235	3235	3250
10°	3228	3228	3248
15°	3221	3221	3246
20°	3213	3213	3254
25°	3198	3203	3251
30°	3190	3195	3252
35°	3177	3177	3242
40°	3157	3150	3227
45°	3153	3132	3228
50°	3129	3099	3205
55°	3093	3059	3177
60°	3053	2985	3131
65°	2970	2890	3085
70°	2862	2777	2820
75°	2696	2528	2153
80°	2372	1981	2066
85°	1723	1668	1613



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.8	3.2
10°-20°	274.8	9.2
20°-30°	419.6	14.0
30°-40°	511.0	17.1
40°-50°	537.9	18.0
50°-60°	495.2	16.6
60°-70°	385.5	12.9
70°-80°	213.9	7.2
80°-90°	55.0	1.8
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°	790.1	26.4
0°-40°	1301.1	43.5
0°-60°	2334.2	78.1
0°-90°	2988.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2988.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1006	1006	1006	1009	1011	96
15°	972	972	972	976	979	274
25°	905	906	906	914	920	418
35°	813	813	813	822	829	509
45°	696	692	692	702	713	536
55°	554	552	548	557	569	496
65°	392	387	381	394	407	389
75°	218	213	204	182	174	230
85°	47	44	45	44	44	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1012.4	1012.4	1012.4	1012.4	1012.4
2.5°	1010.9	1009.4	1009.4	1012.4	1012.4
5°	1006.4	1006.4	1006.4	1009.4	1010.9
7.5°	1000.3	1000.3	1000.3	1004.9	1004.9
10°	992.8	991.2	992.8	995.8	998.8
12.5°	983.7	982.2	983.7	986.7	989.7
15°	971.6	971.6	971.6	976.1	979.1
17.5°	957.9	956.4	957.9	962.5	967.0
20°	942.8	942.8	942.8	948.9	954.9
22.5°	926.2	924.7	926.2	933.7	939.8
25°	905.0	906.5	906.5	914.1	920.1
27.5°	885.3	883.8	886.8	892.9	900.4
30°	862.6	862.6	864.1	871.7	879.3
32.5°	839.9	838.4	839.9	847.5	855.0
35°	812.7	812.7	812.7	821.7	829.3
37.5°	785.4	783.9	783.9	793.0	803.6
40°	755.2	753.6	753.6	764.2	771.8
42.5°	726.4	724.9	724.9	734.0	744.6
45°	696.1	691.6	691.6	702.2	712.8
47.5°	661.3	658.3	659.8	668.9	679.5
50°	628.0	623.5	622.0	632.6	643.2
52.5°	591.7	590.2	585.7	594.7	606.9
55°	553.9	552.4	547.8	556.9	569.0
57.5°	517.6	513.0	508.5	516.1	529.7
60°	476.7	472.2	466.1	476.7	488.8
62.5°	435.8	429.8	425.3	434.3	448.0
65°	392.0	387.4	381.4	393.5	407.1
67.5°	351.1	346.6	339.0	349.6	358.7
70°	305.7	299.6	296.6	298.1	301.2
72.5°	261.8	258.8	254.2	242.1	239.1
75°	217.9	213.4	204.3	181.6	174.0
77.5°	174.0	171.0	154.4	134.7	134.7
80°	128.6	127.1	107.4	110.5	112.0
82.5°	87.8	84.7	78.7	77.2	77.2
85°	46.9	43.9	45.4	43.9	43.9
87.5°	18.2	18.2	19.7	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)