

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: P238867

Luminaire Tested: **22ENA-LD2-34-UNV-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238867  
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: 22ENA-LD2-34-UNV-L940-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
AIR-VENTED OPTION  
Light Source: (168)4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3047.8 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1.67' x L: 1.83' x H: 0')  
CIE Type: Direct

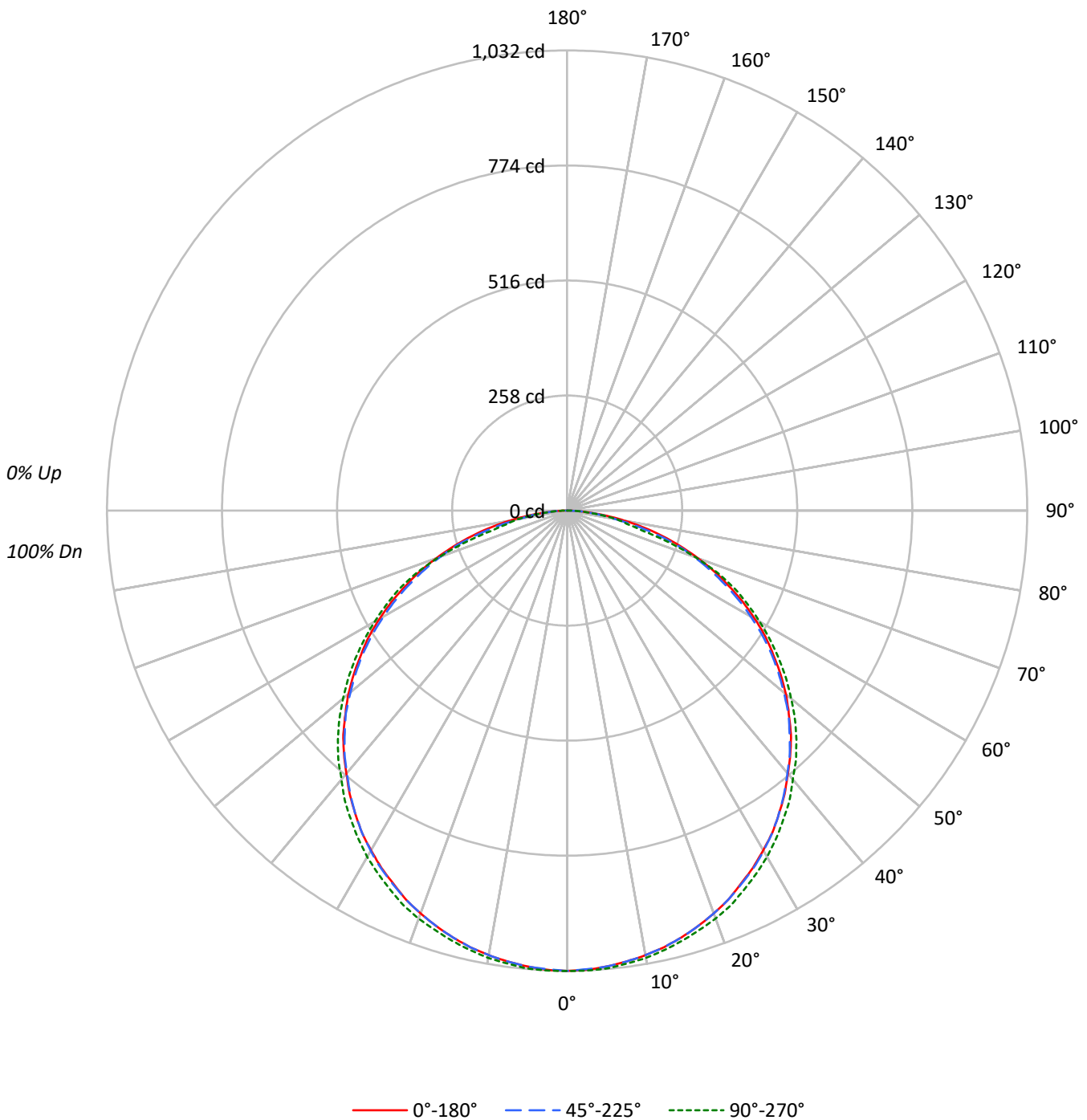
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3637	3637	3637
5°	3629	3629	3645
10°	3621	3621	3644
15°	3613	3613	3642
20°	3604	3604	3651
25°	3587	3593	3647
30°	3578	3584	3648
35°	3564	3564	3637
40°	3541	3534	3620
45°	3537	3514	3621
50°	3510	3476	3595
55°	3469	3431	3564
60°	3425	3349	3512
65°	3332	3242	3460
70°	3210	3116	3163
75°	3024	2835	2416
80°	2662	2223	2317
85°	1932	1871	1811



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.6	3.2
10°-20°	280.3	9.2
20°-30°	427.9	14.0
30°-40°	521.1	17.1
40°-50°	548.5	18.0
50°-60°	505.0	16.6
60°-70°	393.1	12.9
70°-80°	218.2	7.2
80°-90°	56.1	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°	805.8	26.4
0°-40°	1326.9	43.5
0°-60°	2380.4	78.1
0°-90°	3047.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3047.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1026	1026	1026	1029	1031	98
15°	991	991	991	995	998	280
25°	923	924	924	932	938	426
35°	829	829	829	838	846	519
45°	710	705	705	716	727	547
55°	565	563	559	568	580	505
65°	400	395	389	401	415	396
75°	222	218	208	185	178	234
85°	48	45	46	45	45	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1032.5	1032.5	1032.5	1032.5	1032.5
2.5°	1030.9	1029.4	1029.4	1032.5	1032.5
5°	1026.3	1026.3	1026.3	1029.4	1030.9
7.5°	1020.1	1020.1	1020.1	1024.8	1024.8
10°	1012.4	1010.9	1012.4	1015.5	1018.6
12.5°	1003.1	1001.6	1003.1	1006.2	1009.3
15°	990.8	990.8	990.8	995.4	998.5
17.5°	976.9	975.4	976.9	981.5	986.2
20°	961.5	961.5	961.5	967.6	973.8
22.5°	944.5	943.0	944.5	952.2	958.4
25°	922.9	924.4	924.4	932.2	938.3
27.5°	902.8	901.3	904.4	910.5	918.3
30°	879.7	879.7	881.2	888.9	896.7
32.5°	856.5	855.0	856.5	864.2	872.0
35°	828.8	828.8	828.8	838.0	845.7
37.5°	801.0	799.4	799.4	808.7	819.5
40°	770.1	768.6	768.6	779.4	787.1
42.5°	740.8	739.2	739.2	748.5	759.3
45°	709.9	705.3	705.3	716.1	726.9
47.5°	674.4	671.3	672.9	682.1	692.9
50°	640.5	635.8	634.3	645.1	655.9
52.5°	603.4	601.9	597.3	606.5	618.9
55°	564.8	563.3	558.7	567.9	580.3
57.5°	527.8	523.2	518.5	526.3	540.2
60°	486.1	481.5	475.3	486.1	498.5
62.5°	444.5	438.3	433.7	442.9	456.8
65°	399.7	395.1	388.9	401.3	415.1
67.5°	358.0	353.4	345.7	356.5	365.8
70°	311.7	305.6	302.5	304.0	307.1
72.5°	267.0	263.9	259.3	246.9	243.8
75°	222.2	217.6	208.3	185.2	177.5
77.5°	177.5	174.4	157.4	137.4	137.4
80°	131.2	129.6	109.6	112.7	114.2
82.5°	89.5	86.4	80.3	78.7	78.7
85°	47.8	44.8	46.3	44.8	44.8
87.5°	18.5	18.5	20.1	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)