

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: P238815

Luminaire Tested: **22ENA-LD2-30-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238815  
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-LD2-30-UNV-L840-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
AIR-VENTED OPTION  
Light Source: (168)4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3060.8 lumens  
Efficiency: N/A  
Efficacy: 122.9 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

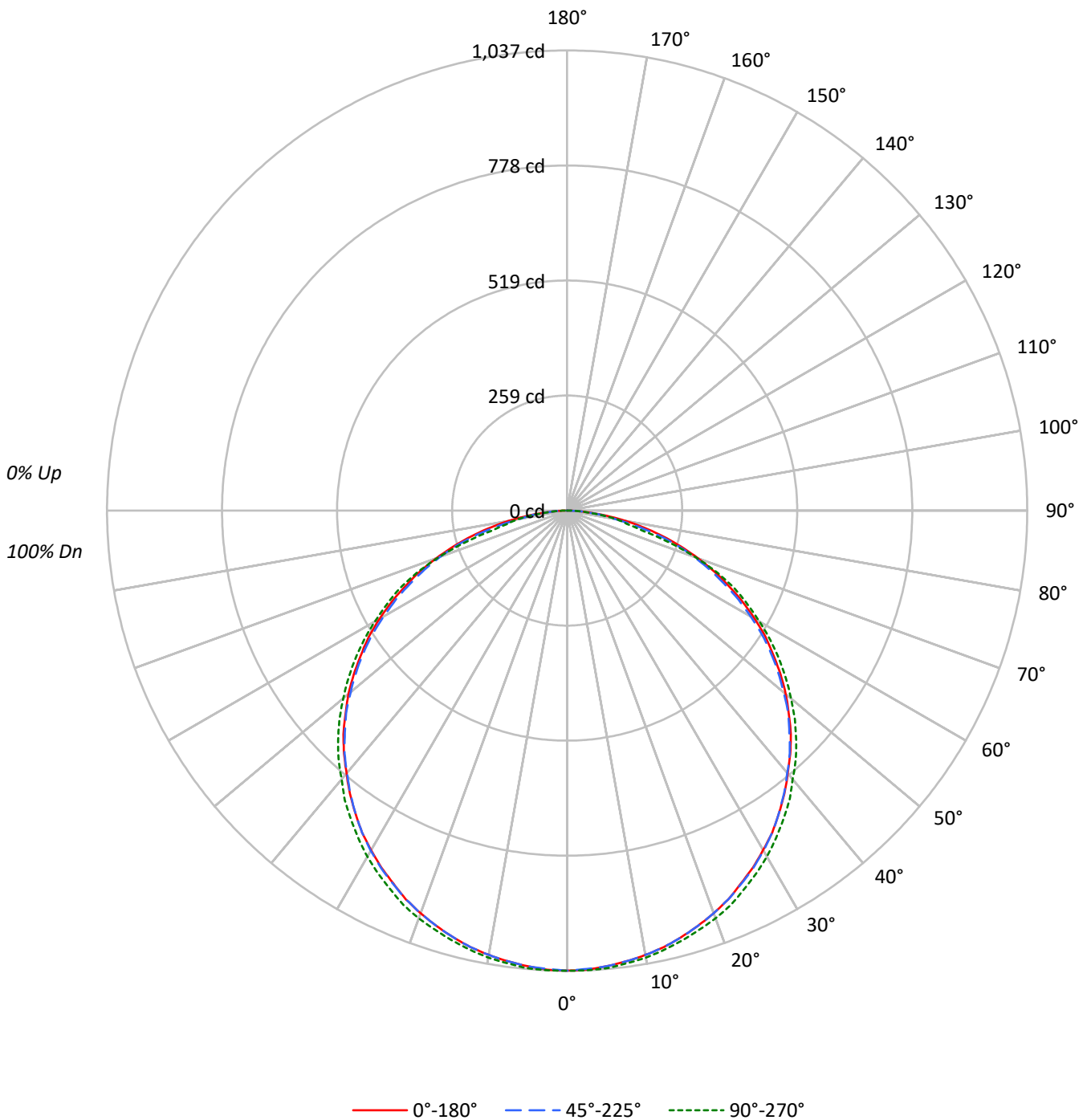
Input Watts (W): 24.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

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

	0°	45°	90°
0°	3653	3653	3653
5°	3645	3645	3661
10°	3637	3637	3659
15°	3629	3629	3657
20°	3620	3620	3666
25°	3603	3609	3663
30°	3594	3600	3663
35°	3579	3579	3653
40°	3557	3550	3635
45°	3552	3529	3637
50°	3525	3491	3610
55°	3484	3446	3579
60°	3440	3364	3527
65°	3346	3256	3475
70°	3225	3129	3176
75°	3038	2847	2425
80°	2672	2232	2327
85°	1940	1879	1815



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	3.2
10°-20°	281.5	9.2
20°-30°	429.7	14.0
30°-40°	523.4	17.1
40°-50°	550.9	18.0
50°-60°	507.2	16.6
60°-70°	394.8	12.9
70°-80°	219.1	7.2
80°-90°	56.3	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°	809.3	26.4
0°-40°	1332.6	43.5
0°-60°	2390.7	78.1
0°-90°	3060.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3060.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1037	1037	1037	1037	1037	
5°	1031	1031	1031	1034	1035	98
15°	995	995	995	1000	1003	281
25°	927	928	928	936	942	428
35°	832	832	832	842	849	521
45°	713	708	708	719	730	549
55°	567	566	561	570	583	508
65°	401	397	391	403	417	398
75°	223	218	209	186	178	235
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°	1036.9	1036.9	1036.9	1036.9	1036.9
2.5°	1035.4	1033.8	1033.8	1036.9	1036.9
5°	1030.7	1030.7	1030.7	1033.8	1035.4
7.5°	1024.5	1024.5	1024.5	1029.2	1029.2
10°	1016.8	1015.2	1016.8	1019.9	1023.0
12.5°	1007.5	1005.9	1007.5	1010.6	1013.7
15°	995.1	995.1	995.1	999.7	1002.8
17.5°	981.1	979.6	981.1	985.8	990.4
20°	965.6	965.6	965.6	971.8	978.0
22.5°	948.6	947.0	948.6	956.3	962.5
25°	926.9	928.4	928.4	936.2	942.4
27.5°	906.7	905.2	908.3	914.5	922.2
30°	883.5	883.5	885.0	892.8	900.5
32.5°	860.2	858.7	860.2	868.0	875.7
35°	832.3	832.3	832.3	841.6	849.4
37.5°	804.4	802.9	802.9	812.2	823.0
40°	773.4	771.9	771.9	782.7	790.5
42.5°	744.0	742.4	742.4	751.7	762.6
45°	713.0	708.3	708.3	719.2	730.0
47.5°	677.3	674.2	675.8	685.1	695.9
50°	643.2	638.6	637.0	647.9	658.7
52.5°	606.0	604.5	599.8	609.1	621.5
55°	567.3	565.7	561.1	570.4	582.8
57.5°	530.1	525.4	520.8	528.5	542.5
60°	488.2	483.6	477.4	488.2	500.6
62.5°	446.4	440.2	435.5	444.8	458.8
65°	401.4	396.8	390.6	403.0	416.9
67.5°	359.6	354.9	347.2	358.0	367.3
70°	313.1	306.9	303.8	305.3	308.4
72.5°	268.1	265.0	260.4	248.0	244.9
75°	223.2	218.5	209.2	186.0	178.2
77.5°	178.2	175.1	158.1	137.9	137.9
80°	131.7	130.2	110.0	113.1	114.7
82.5°	89.9	86.8	80.6	79.0	79.0
85°	48.0	44.9	46.5	44.9	44.9
87.5°	18.6	18.6	20.1	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)