

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: P238862

Luminaire Tested: **22ENA-LD2-30-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238862  
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-L935-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
AIR-VENTED OPTION  
Light Source: (168)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2583.6 lumens  
Efficiency: N/A  
Efficacy: 103.8 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

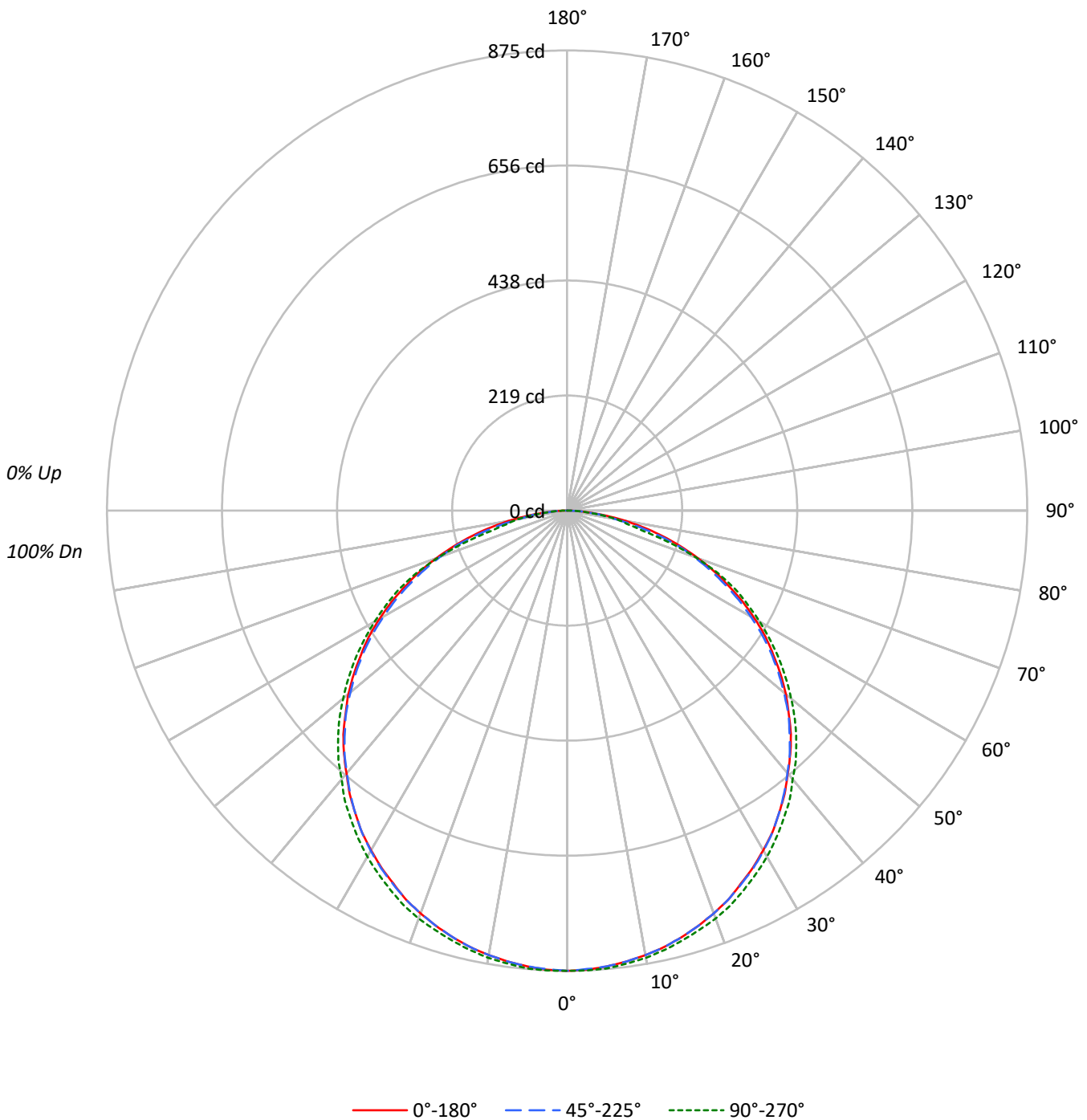
Input Watts (W): 24.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3083	3083	3083
5°	3076	3076	3090
10°	3070	3070	3089
15°	3063	3063	3087
20°	3055	3055	3095
25°	3041	3046	3092
30°	3033	3039	3092
35°	3021	3021	3083
40°	3002	2996	3068
45°	2998	2979	3070
50°	2975	2947	3047
55°	2941	2909	3021
60°	2903	2839	2977
65°	2824	2748	2933
70°	2722	2641	2681
75°	2564	2404	2047
80°	2256	1885	1964
85°	1641	1584	1532



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.8	3.2
10°-20°	237.6	9.2
20°-30°	362.7	14.0
30°-40°	441.7	17.1
40°-50°	465.0	18.0
50°-60°	428.1	16.6
60°-70°	333.2	12.9
70°-80°	184.9	7.2
80°-90°	47.5	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°	683.1	26.4
0°-40°	1124.8	43.5
0°-60°	2017.9	78.1
0°-90°	2583.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2583.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	870	870	870	873	874	83
15°	840	840	840	844	846	237
25°	782	784	784	790	795	361
35°	702	702	702	710	717	440
45°	602	598	598	607	616	463
55°	479	478	474	481	492	428
65°	339	335	330	340	352	336
75°	188	184	177	157	150	199
85°	41	38	39	38	38	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	875.2	875.2	875.2	875.2	875.2
2.5°	873.9	872.6	872.6	875.2	875.2
5°	870.0	870.0	870.0	872.6	873.9
7.5°	864.8	864.8	864.8	868.7	868.7
10°	858.2	856.9	858.2	860.8	863.5
12.5°	850.4	849.1	850.4	853.0	855.6
15°	839.9	839.9	839.9	843.8	846.4
17.5°	828.1	826.8	828.1	832.1	836.0
20°	815.0	815.0	815.0	820.3	825.5
22.5°	800.7	799.3	800.7	807.2	812.4
25°	782.3	783.6	783.6	790.2	795.4
27.5°	765.3	764.0	766.6	771.9	778.4
30°	745.7	745.7	747.0	753.6	760.1
32.5°	726.1	724.8	726.1	732.6	739.2
35°	702.5	702.5	702.5	710.4	716.9
37.5°	679.0	677.7	677.7	685.5	694.7
40°	652.8	651.5	651.5	660.7	667.2
42.5°	628.0	626.7	626.7	634.5	643.7
45°	601.8	597.9	597.9	607.0	616.2
47.5°	571.7	569.1	570.4	578.3	587.4
50°	542.9	539.0	537.7	546.9	556.0
52.5°	511.5	510.2	506.3	514.1	524.6
55°	478.8	477.5	473.6	481.4	491.9
57.5°	447.4	443.5	439.6	446.1	457.9
60°	412.1	408.2	402.9	412.1	422.6
62.5°	376.8	371.5	367.6	375.5	387.2
65°	338.8	334.9	329.7	340.1	351.9
67.5°	303.5	299.6	293.1	302.2	310.1
70°	264.3	259.0	256.4	257.7	260.3
72.5°	226.3	223.7	219.8	209.3	206.7
75°	188.4	184.5	176.6	157.0	150.4
77.5°	150.4	147.8	133.4	116.4	116.4
80°	111.2	109.9	92.9	95.5	96.8
82.5°	75.9	73.3	68.0	66.7	66.7
85°	40.6	37.9	39.2	37.9	37.9
87.5°	15.7	15.7	17.0	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)