

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: P238810

Luminaire Tested: **22ENA-LD2-25-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238810  
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-LD2-25-UNV-L835-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
AIR-VENTED OPTION  
Light Source: (168)3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2581.9 lumens  
Efficiency: N/A  
Efficacy: 129.1 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

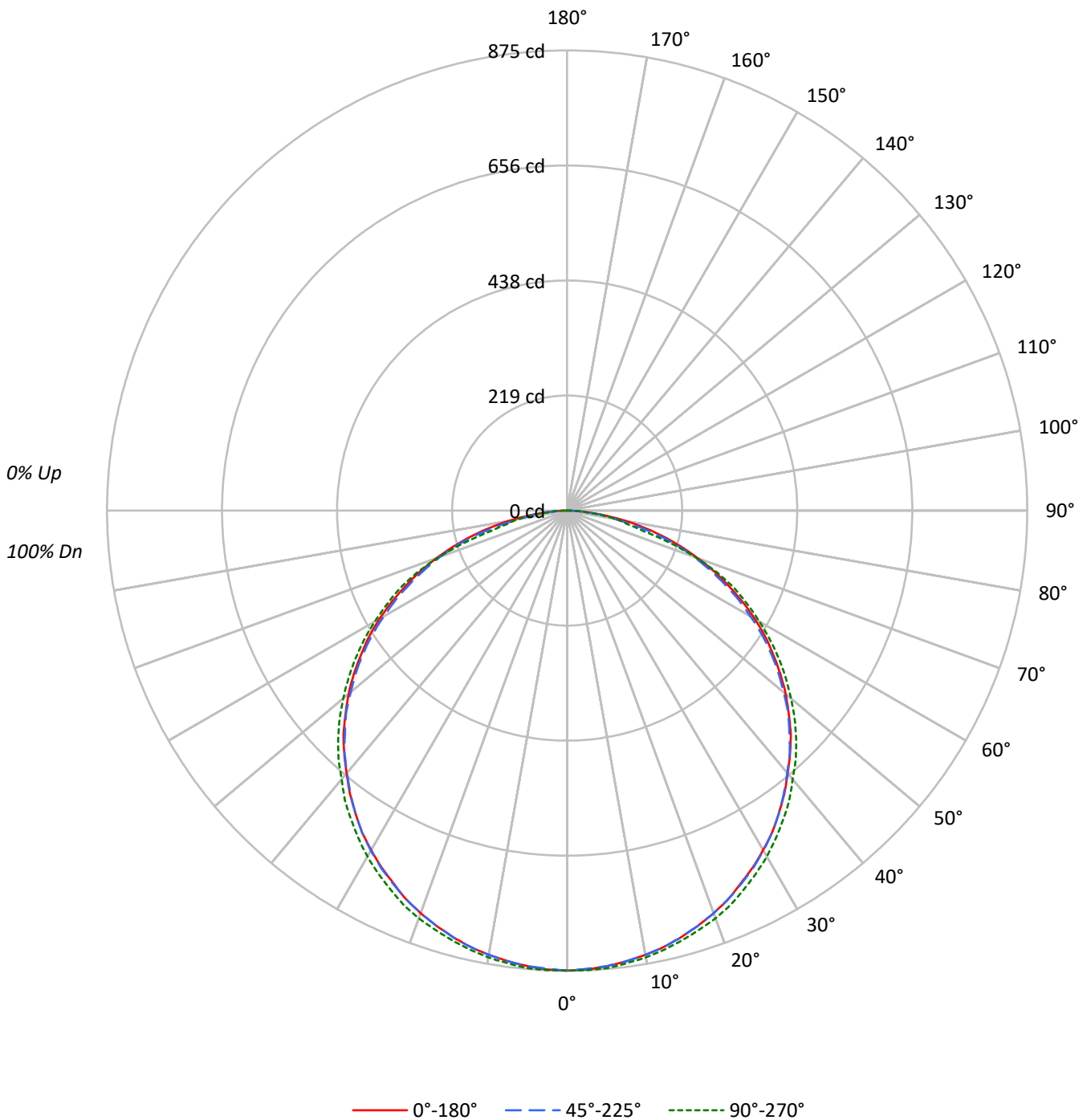
Input Watts (W): 20  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3081	3081	3081
5°	3074	3074	3089
10°	3068	3068	3087
15°	3061	3061	3085
20°	3053	3053	3093
25°	3039	3044	3090
30°	3031	3037	3090
35°	3019	3019	3081
40°	3000	2994	3066
45°	2996	2977	3068
50°	2974	2945	3045
55°	2939	2907	3019
60°	2901	2837	2975
65°	2822	2747	2932
70°	2720	2640	2680
75°	2563	2402	2047
80°	2254	1883	1962
85°	1637	1584	1532



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.7	3.2
10°-20°	237.4	9.2
20°-30°	362.5	14.0
30°-40°	441.5	17.1
40°-50°	464.7	18.0
50°-60°	427.8	16.6
60°-70°	333.0	12.9
70°-80°	184.8	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°	682.6	26.4
0°-40°	1124.1	43.5
0°-60°	2016.6	78.1
0°-90°	2581.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2581.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	869	869	869	872	873	83
15°	839	839	839	843	846	237
25°	782	783	783	790	795	361
35°	702	702	702	710	716	439
45°	601	598	598	607	616	463
55°	478	477	473	481	492	428
65°	339	335	330	340	352	336
75°	188	184	176	157	150	198
85°	40	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°	874.7	874.7	874.7	874.7	874.7
2.5°	873.4	872.0	872.0	874.7	874.7
5°	869.4	869.4	869.4	872.0	873.4
7.5°	864.2	864.2	864.2	868.1	868.1
10°	857.7	856.4	857.7	860.3	862.9
12.5°	849.8	848.5	849.8	852.4	855.0
15°	839.4	839.4	839.4	843.3	845.9
17.5°	827.6	826.3	827.6	831.5	835.4
20°	814.5	814.5	814.5	819.7	825.0
22.5°	800.1	798.8	800.1	806.7	811.9
25°	781.8	783.1	783.1	789.7	794.9
27.5°	764.8	763.5	766.1	771.4	777.9
30°	745.2	745.2	746.5	753.1	759.6
32.5°	725.6	724.3	725.6	732.2	738.7
35°	702.1	702.1	702.1	709.9	716.5
37.5°	678.5	677.2	677.2	685.1	694.2
40°	652.4	651.1	651.1	660.2	666.8
42.5°	627.6	626.3	626.3	634.1	643.2
45°	601.4	597.5	597.5	606.6	615.8
47.5°	571.3	568.7	570.0	577.9	587.0
50°	542.6	538.7	537.3	546.5	555.7
52.5°	511.2	509.9	506.0	513.8	524.3
55°	478.5	477.2	473.3	481.1	491.6
57.5°	447.1	443.2	439.3	445.8	457.6
60°	411.8	407.9	402.7	411.8	422.3
62.5°	376.5	371.3	367.4	375.2	387.0
65°	338.6	334.7	329.5	339.9	351.7
67.5°	303.3	299.4	292.9	302.0	309.9
70°	264.1	258.9	256.3	257.6	260.2
72.5°	226.2	223.6	219.6	209.2	206.6
75°	188.3	184.3	176.5	156.9	150.4
77.5°	150.4	147.7	133.4	116.4	116.4
80°	111.1	109.8	92.8	95.4	96.7
82.5°	75.8	73.2	68.0	66.7	66.7
85°	40.5	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)