

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: P238837

Luminaire Tested: **22EN-LD2-30-UNV-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238837  
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-LD2-30-UNV-L930-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
STANDARD OPTION  
Light Source: (168)3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2579.0 lumens  
Efficiency: N/A  
Efficacy: 103.6 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

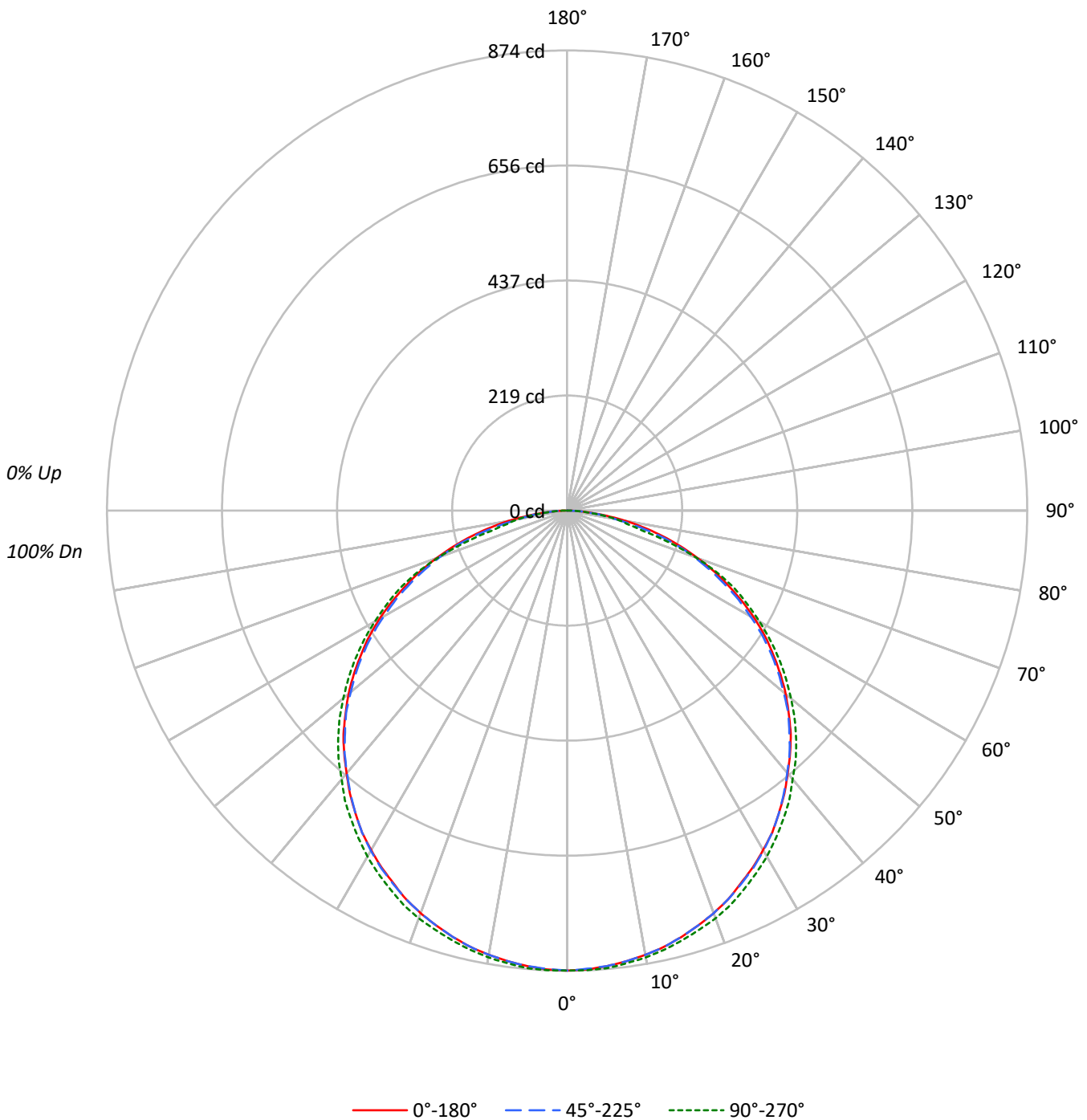
Input Watts (W): 24.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2798	2798	2798
5°	2792	2792	2805
10°	2786	2786	2803
15°	2780	2780	2801
20°	2773	2773	2808
25°	2759	2764	2806
30°	2753	2758	2806
35°	2742	2742	2798
40°	2724	2719	2784
45°	2721	2703	2786
50°	2700	2674	2765
55°	2669	2639	2741
60°	2635	2576	2702
65°	2563	2494	2662
70°	2470	2397	2434
75°	2327	2181	1858
80°	2047	1710	1782
85°	1488	1440	1393



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	3.2
10°-20°	237.2	9.2
20°-30°	362.0	14.0
30°-40°	441.0	17.1
40°-50°	464.1	18.0
50°-60°	427.3	16.6
60°-70°	332.6	12.9
70°-80°	184.6	7.2
80°-90°	47.4	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°	681.8	26.4
0°-40°	1122.8	43.5
0°-60°	2014.3	78.1
0°-90°	2579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2579.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	868	868	868	871	872	83
15°	838	838	838	842	845	237
25°	781	782	782	789	794	360
35°	701	701	701	709	716	439
45°	601	597	597	606	615	463
55°	478	477	473	481	491	428
65°	338	334	329	340	351	335
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°	873.7	873.7	873.7	873.7	873.7
2.5°	872.4	871.1	871.1	873.7	873.7
5°	868.4	868.4	868.4	871.1	872.4
7.5°	863.2	863.2	863.2	867.1	867.1
10°	856.7	855.4	856.7	859.3	861.9
12.5°	848.9	847.5	848.9	851.5	854.1
15°	838.4	838.4	838.4	842.3	844.9
17.5°	826.6	825.3	826.6	830.6	834.5
20°	813.6	813.6	813.6	818.8	824.0
22.5°	799.2	797.9	799.2	805.8	811.0
25°	780.9	782.2	782.2	788.8	794.0
27.5°	764.0	762.7	765.3	770.5	777.0
30°	744.4	744.4	745.7	752.2	758.7
32.5°	724.8	723.5	724.8	731.3	737.8
35°	701.3	701.3	701.3	709.1	715.6
37.5°	677.8	676.5	676.5	684.3	693.4
40°	651.7	650.4	650.4	659.5	666.0
42.5°	626.8	625.5	625.5	633.4	642.5
45°	600.7	596.8	596.8	605.9	615.1
47.5°	570.7	568.1	569.4	577.2	586.4
50°	542.0	538.0	536.7	545.9	555.0
52.5°	510.6	509.3	505.4	513.2	523.7
55°	478.0	476.7	472.7	480.6	491.0
57.5°	446.6	442.7	438.8	445.3	457.1
60°	411.4	407.4	402.2	411.4	421.8
62.5°	376.1	370.9	367.0	374.8	386.6
65°	338.2	334.3	329.1	339.5	351.3
67.5°	303.0	299.1	292.5	301.7	309.5
70°	263.8	258.6	256.0	257.3	259.9
72.5°	225.9	223.3	219.4	208.9	206.3
75°	188.1	184.1	176.3	156.7	150.2
77.5°	150.2	147.6	133.2	116.2	116.2
80°	111.0	109.7	92.7	95.3	96.6
82.5°	75.7	73.1	67.9	66.6	66.6
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)