

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: P238873

Luminaire Tested: **22ENA-LD2-43-UNV-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238873  
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-LD2-43-UNV-L930-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
AIR-VENTED OPTION  
Light Source: (168)3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3659.8 lumens  
Efficiency: N/A  
Efficacy: 95.6 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

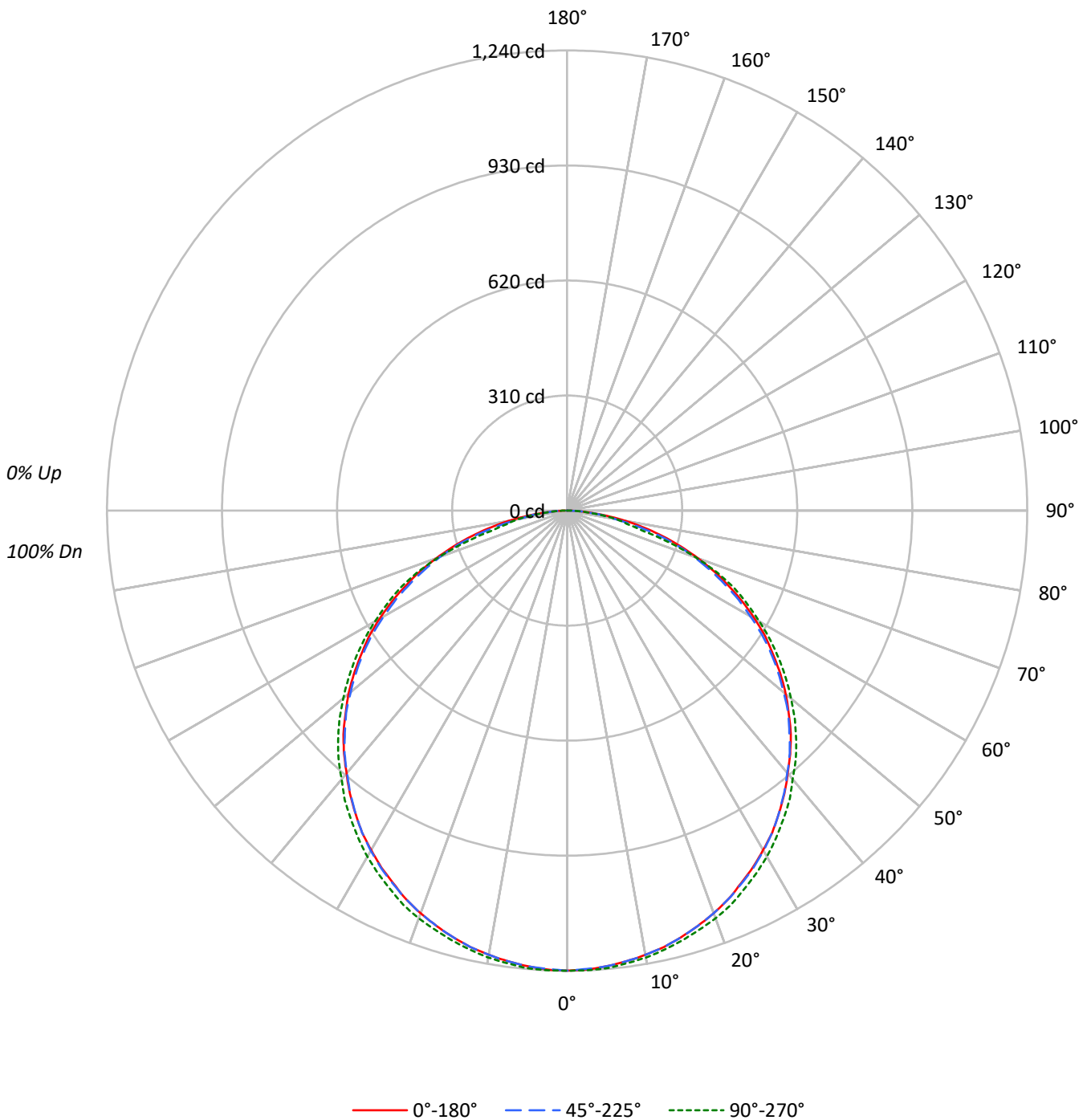
Input Watts (W): 38.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4367	4367	4367
5°	4358	4358	4378
10°	4349	4349	4375
15°	4339	4339	4373
20°	4328	4328	4384
25°	4307	4315	4380
30°	4297	4304	4380
35°	4280	4280	4368
40°	4253	4244	4347
45°	4247	4219	4349
50°	4215	4174	4316
55°	4166	4120	4280
60°	4113	4022	4217
65°	4001	3893	4155
70°	3856	3741	3799
75°	3633	3405	2900
80°	3195	2670	2781
85°	2324	2247	2170



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.3	3.2
10°-20°	336.6	9.2
20°-30°	513.8	14.0
30°-40°	625.8	17.1
40°-50°	658.7	18.0
50°-60°	606.4	16.6
60°-70°	472.0	12.9
70°-80°	262.0	7.2
80°-90°	67.3	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°	967.6	26.4
0°-40°	1593.4	43.5
0°-60°	2858.5	78.1
0°-90°	3659.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3659.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1232	1232	1232	1236	1238	117
15°	1190	1190	1190	1195	1199	336
25°	1108	1110	1110	1119	1127	512
35°	995	995	995	1006	1016	623
45°	852	847	847	860	873	656
55°	678	676	671	682	697	607
65°	480	474	467	482	498	476
75°	267	261	250	222	213	281
85°	58	54	56	54	54	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1239.8	1239.8	1239.8	1239.8	1239.8
2.5°	1238.0	1236.1	1236.1	1239.8	1239.8
5°	1232.4	1232.4	1232.4	1236.1	1238.0
7.5°	1225.0	1225.0	1225.0	1230.5	1230.5
10°	1215.7	1213.9	1215.7	1219.4	1223.1
12.5°	1204.6	1202.8	1204.6	1208.3	1212.0
15°	1189.8	1189.8	1189.8	1195.3	1199.0
17.5°	1173.1	1171.2	1173.1	1178.7	1184.2
20°	1154.6	1154.6	1154.6	1162.0	1169.4
22.5°	1134.2	1132.3	1134.2	1143.4	1150.9
25°	1108.2	1110.1	1110.1	1119.4	1126.8
27.5°	1084.1	1082.3	1086.0	1093.4	1102.7
30°	1056.3	1056.3	1058.2	1067.5	1076.7
32.5°	1028.5	1026.7	1028.5	1037.8	1047.1
35°	995.2	995.2	995.2	1006.3	1015.6
37.5°	961.8	960.0	960.0	971.1	984.1
40°	924.8	922.9	922.9	935.9	945.2
42.5°	889.6	887.7	887.7	898.8	911.8
45°	852.5	846.9	846.9	859.9	872.9
47.5°	809.9	806.2	808.0	819.1	832.1
50°	769.1	763.5	761.7	774.7	787.6
52.5°	724.6	722.8	717.2	728.3	743.1
55°	678.3	676.4	670.9	682.0	696.8
57.5°	633.8	628.2	622.7	632.0	648.6
60°	583.8	578.2	570.8	583.8	598.6
62.5°	533.7	526.3	520.8	531.9	548.6
65°	480.0	474.4	467.0	481.8	498.5
67.5°	430.0	424.4	415.1	428.1	439.2
70°	374.4	366.9	363.2	365.1	368.8
72.5°	320.6	316.9	311.3	296.5	292.8
75°	266.9	261.3	250.2	222.4	213.1
77.5°	213.1	209.4	189.0	164.9	164.9
80°	157.5	155.7	131.6	135.3	137.1
82.5°	107.5	103.8	96.4	94.5	94.5
85°	57.5	53.7	55.6	53.7	53.7
87.5°	22.2	22.2	24.1	22.2	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)