

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: P238820

Luminaire Tested: **22ENA-LD2-34-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238820  
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-LD2-34-UNV-L850-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
AIR-VENTED OPTION  
Light Source: (168)5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3756.9 lumens  
Efficiency: N/A  
Efficacy: 131.8 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

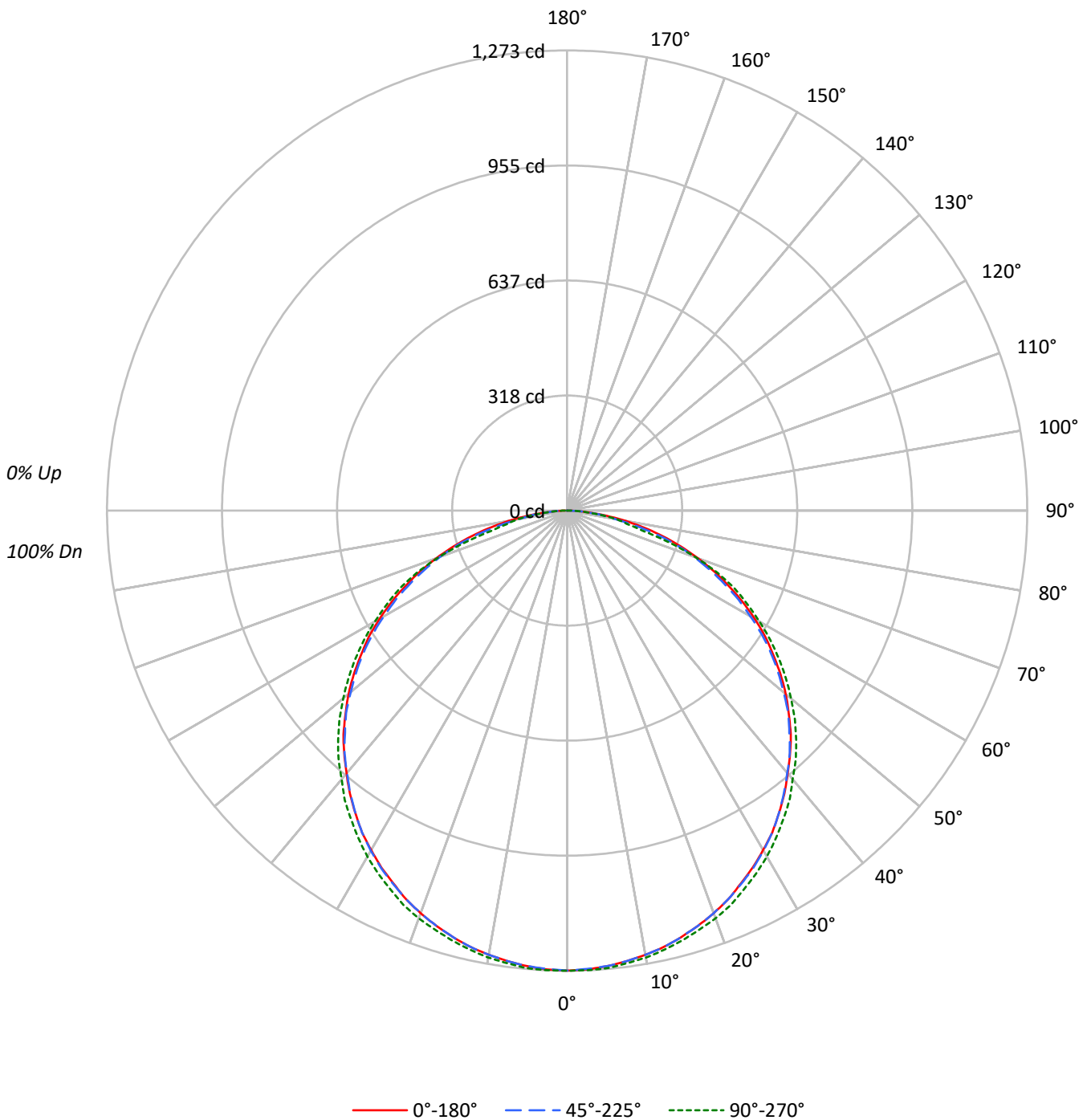
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4483	4483	4483
5°	4474	4474	4494
10°	4464	4464	4491
15°	4454	4454	4489
20°	4443	4443	4500
25°	4422	4429	4496
30°	4411	4419	4496
35°	4393	4393	4483
40°	4365	4357	4462
45°	4360	4331	4464
50°	4327	4285	4431
55°	4276	4230	4393
60°	4222	4128	4329
65°	4107	3996	4265
70°	3958	3841	3900
75°	3728	3495	2978
80°	3280	2741	2856
85°	2385	2308	2231



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.4	3.2
10°-20°	345.5	9.2
20°-30°	527.4	14.0
30°-40°	642.4	17.1
40°-50°	676.1	18.0
50°-60°	622.5	16.6
60°-70°	484.6	12.9
70°-80°	269.0	7.2
80°-90°	69.1	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°	993.3	26.4
0°-40°	1635.6	43.5
0°-60°	2934.3	78.1
0°-90°	3756.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3756.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1265	1265	1265	1269	1271	120
15°	1221	1221	1221	1227	1231	345
25°	1138	1140	1140	1149	1157	525
35°	1022	1022	1022	1033	1042	639
45°	875	869	869	883	896	674
55°	696	694	689	700	715	623
65°	493	487	479	495	512	488
75°	274	268	257	228	219	289
85°	59	55	57	55	55	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1272.7	1272.7	1272.7	1272.7	1272.7
2.5°	1270.8	1268.9	1268.9	1272.7	1272.7
5°	1265.1	1265.1	1265.1	1268.9	1270.8
7.5°	1257.5	1257.5	1257.5	1263.2	1263.2
10°	1248.0	1246.1	1248.0	1251.8	1255.6
12.5°	1236.5	1234.6	1236.5	1240.4	1244.2
15°	1221.3	1221.3	1221.3	1227.0	1230.8
17.5°	1204.2	1202.3	1204.2	1209.9	1215.6
20°	1185.2	1185.2	1185.2	1192.8	1200.4
22.5°	1164.3	1162.4	1164.3	1173.8	1181.4
25°	1137.6	1139.5	1139.5	1149.0	1156.6
27.5°	1112.9	1111.0	1114.8	1122.4	1131.9
30°	1084.4	1084.4	1086.3	1095.8	1105.3
32.5°	1055.8	1053.9	1055.8	1065.3	1074.8
35°	1021.6	1021.6	1021.6	1033.0	1042.5
37.5°	987.3	985.4	985.4	996.8	1010.2
40°	949.3	947.4	947.4	960.7	970.2
42.5°	913.1	911.2	911.2	922.7	936.0
45°	875.1	869.4	869.4	882.7	896.0
47.5°	831.3	827.5	829.4	840.9	854.2
50°	789.5	783.8	781.9	795.2	808.5
52.5°	743.8	741.9	736.2	747.6	762.9
55°	696.3	694.4	688.7	700.1	715.3
57.5°	650.6	644.9	639.2	648.7	665.8
60°	599.3	593.5	585.9	599.3	614.5
62.5°	547.9	540.3	534.6	546.0	563.1
65°	492.7	487.0	479.4	494.6	511.7
67.5°	441.4	435.6	426.1	439.5	450.9
70°	384.3	376.7	372.9	374.8	378.6
72.5°	329.1	325.3	319.6	304.4	300.6
75°	273.9	268.2	256.8	228.3	218.8
77.5°	218.8	215.0	194.0	169.3	169.3
80°	161.7	159.8	135.1	138.9	140.8
82.5°	110.3	106.5	98.9	97.0	97.0
85°	59.0	55.2	57.1	55.2	55.2
87.5°	22.8	22.8	24.7	22.8	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)