

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: P238796

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238796  
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-LD2-34-UNV-L850-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
STANDARD OPTION  
Light Source: (168)5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3853.2 lumens  
Efficiency: N/A  
Efficacy: 135.2 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

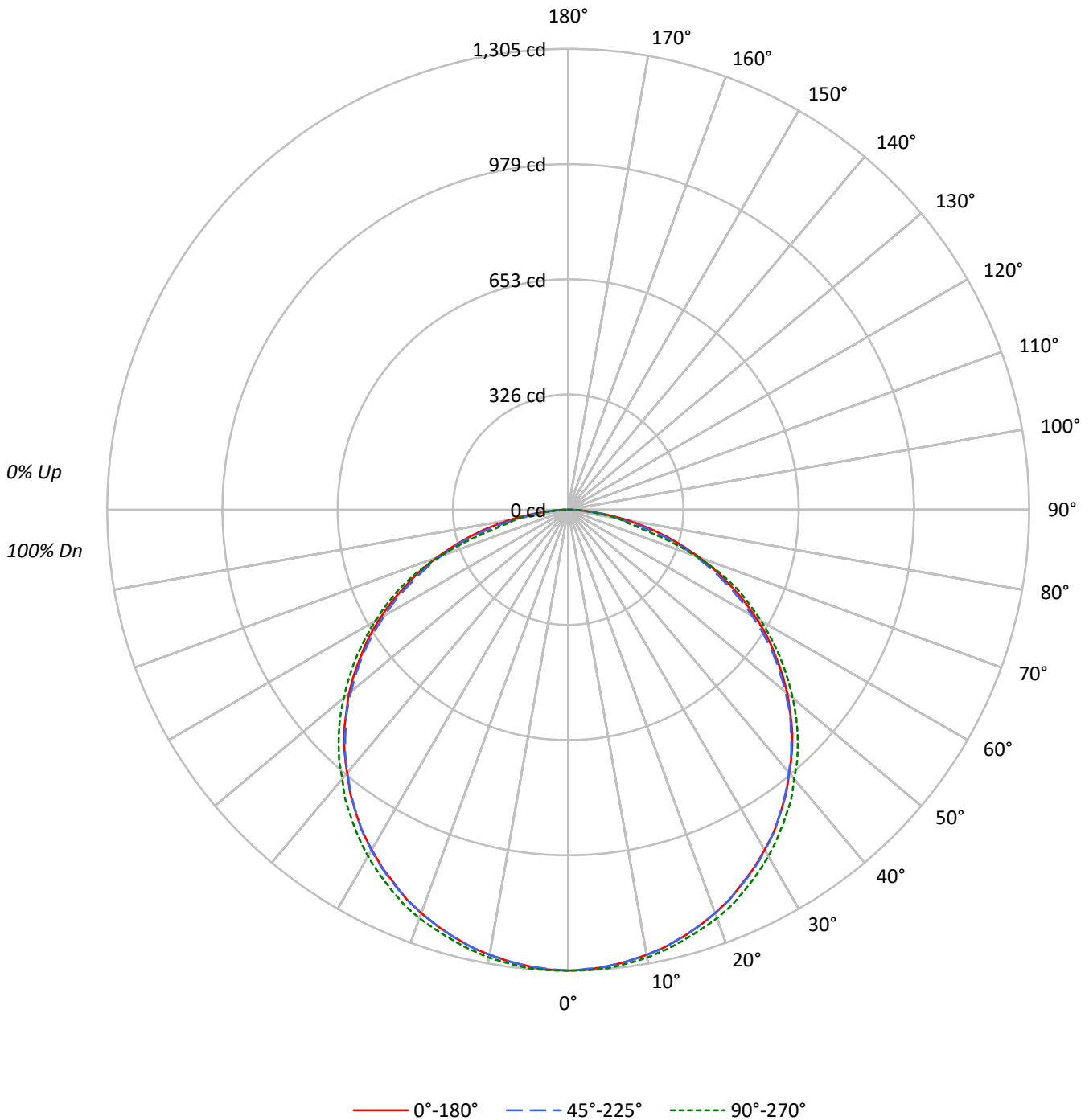
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4180	4180	4180
5°	4171	4171	4190
10°	4162	4162	4188
15°	4153	4153	4185
20°	4143	4143	4196
25°	4123	4130	4192
30°	4113	4120	4192
35°	4096	4096	4180
40°	4070	4062	4160
45°	4065	4039	4162
50°	4034	3995	4131
55°	3987	3944	4096
60°	3936	3849	4036
65°	3830	3726	3978
70°	3690	3581	3636
75°	3477	3259	2777
80°	3058	2554	2663
85°	2223	2150	2080



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.5	3.2
10°-20°	354.3	9.2
20°-30°	540.9	14.0
30°-40°	658.8	17.1
40°-50°	693.5	18.0
50°-60°	638.5	16.6
60°-70°	497.0	12.9
70°-80°	275.8	7.2
80°-90°	70.9	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°	1018.7	26.4
0°-40°	1677.6	43.5
0°-60°	3009.5	78.1
0°-90°	3853.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3853.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1298	1298	1298	1301	1303	123
15°	1253	1253	1253	1258	1262	354
25°	1167	1169	1169	1178	1186	539
35°	1048	1048	1048	1060	1069	656
45°	898	892	892	905	919	691
55°	714	712	706	718	734	639
65°	505	500	492	507	525	501
75°	281	275	263	234	224	296
85°	60	57	58	57	57	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1305.3	1305.3	1305.3	1305.3	1305.3
2.5°	1303.4	1301.4	1301.4	1305.3	1305.3
5°	1297.5	1297.5	1297.5	1301.4	1303.4
7.5°	1289.7	1289.7	1289.7	1295.6	1295.6
10°	1280.0	1278.0	1280.0	1283.9	1287.8
12.5°	1268.3	1266.3	1268.3	1272.2	1276.1
15°	1252.6	1252.6	1252.6	1258.5	1262.4
17.5°	1235.1	1233.1	1235.1	1240.9	1246.8
20°	1215.6	1215.6	1215.6	1223.4	1231.2
22.5°	1194.1	1192.2	1194.1	1203.9	1211.7
25°	1166.8	1168.7	1168.7	1178.5	1186.3
27.5°	1141.4	1139.5	1143.4	1151.2	1160.9
30°	1112.2	1112.2	1114.1	1123.9	1133.6
32.5°	1082.9	1080.9	1082.9	1092.7	1102.4
35°	1047.8	1047.8	1047.8	1059.5	1069.2
37.5°	1012.7	1010.7	1010.7	1022.4	1036.1
40°	973.6	971.7	971.7	985.3	995.1
42.5°	936.6	934.6	934.6	946.3	960.0
45°	897.5	891.7	891.7	905.3	919.0
47.5°	852.7	848.8	850.7	862.4	876.1
50°	809.7	803.9	801.9	815.6	829.2
52.5°	762.9	761.0	755.1	766.8	782.4
55°	714.1	712.2	706.3	718.0	733.6
57.5°	667.3	661.4	655.6	665.3	682.9
60°	614.6	608.8	601.0	614.6	630.2
62.5°	561.9	554.1	548.3	560.0	577.5
65°	505.4	499.5	491.7	507.3	524.9
67.5°	452.7	446.8	437.1	450.7	462.4
70°	394.1	386.3	382.4	384.4	388.3
72.5°	337.6	333.6	327.8	312.2	308.3
75°	281.0	275.1	263.4	234.1	224.4
77.5°	224.4	220.5	199.0	173.7	173.7
80°	165.8	163.9	138.5	142.4	144.4
82.5°	113.2	109.3	101.5	99.5	99.5
85°	60.5	56.6	58.5	56.6	56.6
87.5°	23.4	23.4	25.4	23.4	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)