

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: P238870

Luminaire Tested: **22ENA-LD2-39-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238870  
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-LD2-39-UNV-L935-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
AIR-VENTED OPTION  
Light Source: (168)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3340.2 lumens  
Efficiency: N/A  
Efficacy: 100.3 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

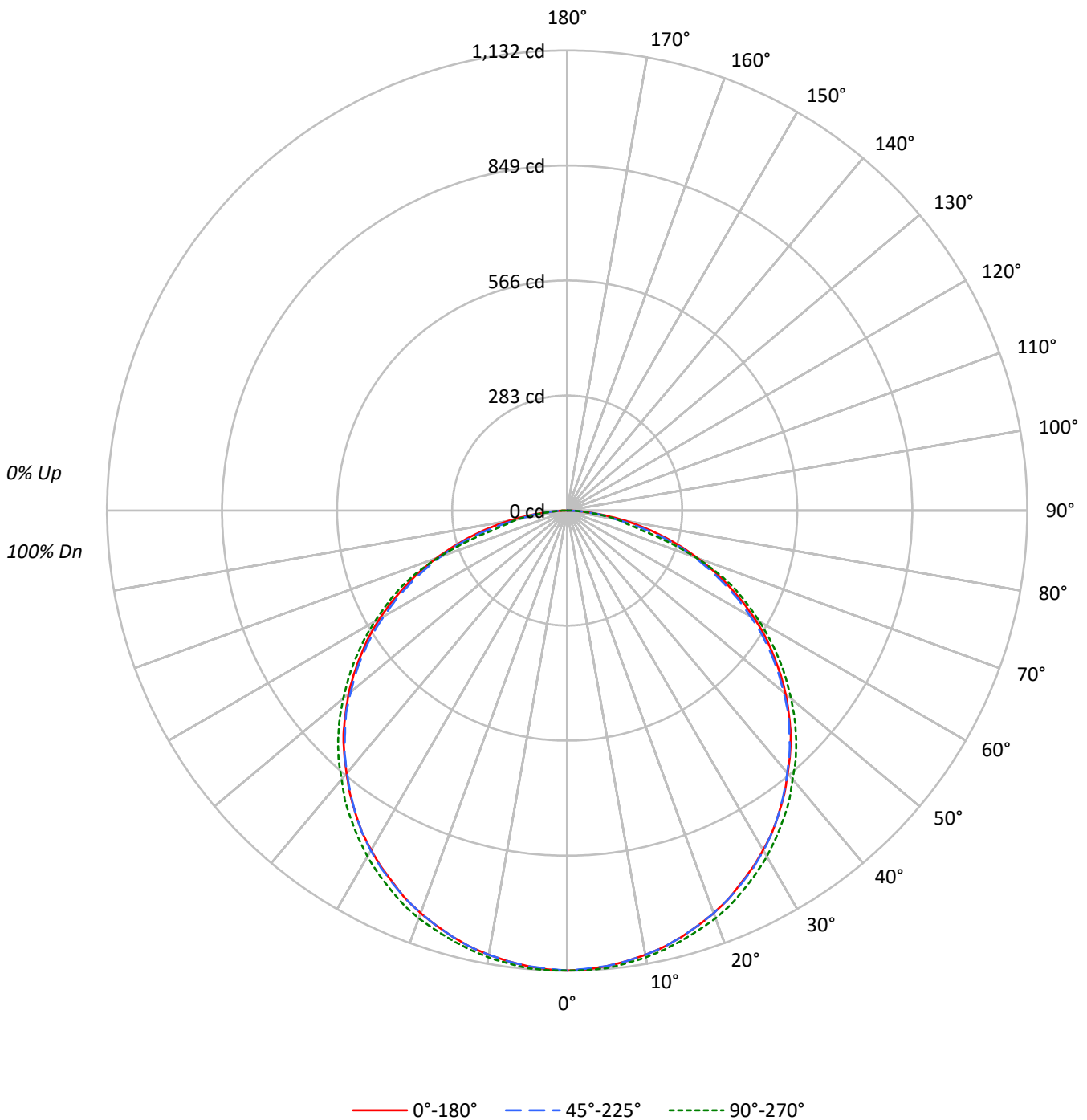
Input Watts (W): 33.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3986	3986	3986
5°	3978	3978	3995
10°	3969	3969	3993
15°	3960	3960	3991
20°	3950	3950	4001
25°	3931	3938	3997
30°	3922	3929	3997
35°	3906	3906	3986
40°	3881	3873	3967
45°	3876	3851	3969
50°	3847	3810	3939
55°	3802	3761	3906
60°	3754	3670	3849
65°	3652	3553	3793
70°	3519	3414	3467
75°	3316	3107	2647
80°	2917	2436	2540
85°	2118	2049	1981



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	3.2
10°-20°	307.2	9.2
20°-30°	468.9	14.0
30°-40°	571.1	17.1
40°-50°	601.1	18.0
50°-60°	553.5	16.6
60°-70°	430.8	12.9
70°-80°	239.1	7.2
80°-90°	61.4	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°	883.1	26.4
0°-40°	1454.2	43.5
0°-60°	2608.8	78.1
0°-90°	3340.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3340.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1125	1125	1125	1128	1130	107
15°	1086	1086	1086	1091	1094	307
25°	1011	1013	1013	1022	1028	467
35°	908	908	908	918	927	568
45°	778	773	773	785	797	599
55°	619	617	612	622	636	554
65°	438	433	426	440	455	434
75°	244	238	228	203	194	257
85°	52	49	51	49	49	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1131.5	1131.5	1131.5	1131.5	1131.5
2.5°	1129.8	1128.1	1128.1	1131.5	1131.5
5°	1124.8	1124.8	1124.8	1128.1	1129.8
7.5°	1118.0	1118.0	1118.0	1123.1	1123.1
10°	1109.5	1107.8	1109.5	1112.9	1116.3
12.5°	1099.4	1097.7	1099.4	1102.8	1106.2
15°	1085.9	1085.9	1085.9	1090.9	1094.3
17.5°	1070.6	1068.9	1070.6	1075.7	1080.8
20°	1053.7	1053.7	1053.7	1060.5	1067.3
22.5°	1035.1	1033.4	1035.1	1043.6	1050.3
25°	1011.4	1013.1	1013.1	1021.6	1028.4
27.5°	989.5	987.8	991.1	997.9	1006.4
30°	964.1	964.1	965.8	974.2	982.7
32.5°	938.7	937.0	938.7	947.2	955.6
35°	908.3	908.3	908.3	918.4	926.9
37.5°	877.8	876.1	876.1	886.3	898.1
40°	844.0	842.3	842.3	854.1	862.6
42.5°	811.9	810.2	810.2	820.3	832.2
45°	778.0	773.0	773.0	784.8	796.6
47.5°	739.1	735.7	737.4	747.6	759.4
50°	701.9	696.8	695.2	707.0	718.8
52.5°	661.3	659.6	654.6	664.7	678.2
55°	619.0	617.3	612.3	622.4	636.0
57.5°	578.4	573.4	568.3	576.8	592.0
60°	532.8	527.7	520.9	532.8	546.3
62.5°	487.1	480.3	475.3	485.4	500.6
65°	438.1	433.0	426.2	439.8	455.0
67.5°	392.4	387.3	378.9	390.7	400.9
70°	341.7	334.9	331.5	333.2	336.6
72.5°	292.6	289.2	284.1	270.6	267.2
75°	243.6	238.5	228.3	203.0	194.5
77.5°	194.5	191.1	172.5	150.5	150.5
80°	143.8	142.1	120.1	123.5	125.2
82.5°	98.1	94.7	88.0	86.3	86.3
85°	52.4	49.0	50.7	49.0	49.0
87.5°	20.3	20.3	22.0	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)