

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: P238872

Luminaire Tested: **22ENA-LD2-39-UNV-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238872  
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-L950-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
AIR-VENTED OPTION  
Light Source: (168)5000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3703.4 lumens  
Efficiency: N/A  
Efficacy: 111.2 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

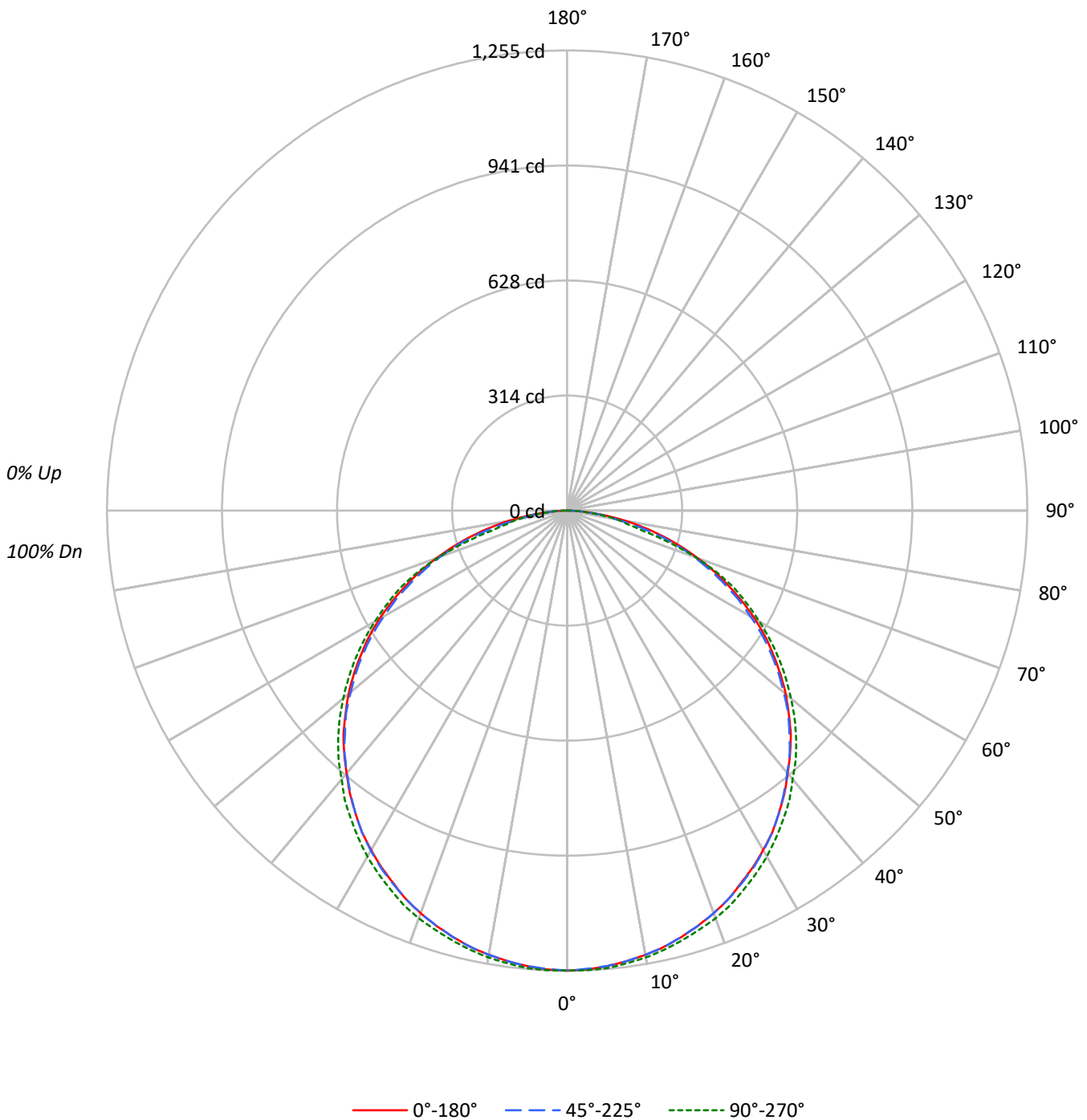
Input Watts (W): 33.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4420	4420	4420
5°	4410	4410	4430
10°	4401	4401	4427
15°	4391	4391	4425
20°	4380	4380	4436
25°	4359	4366	4432
30°	4348	4356	4432
35°	4331	4331	4419
40°	4303	4295	4398
45°	4297	4269	4401
50°	4265	4224	4368
55°	4215	4169	4331
60°	4162	4069	4267
65°	4049	3939	4204
70°	3902	3786	3844
75°	3675	3446	2936
80°	3234	2700	2816
85°	2348	2276	2199



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.7	3.2
10°-20°	340.6	9.2
20°-30°	519.9	14.0
30°-40°	633.2	17.1
40°-50°	666.5	18.0
50°-60°	613.7	16.6
60°-70°	477.7	12.9
70°-80°	265.1	7.2
80°-90°	68.1	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°	979.1	26.4
0°-40°	1612.3	43.5
0°-60°	2892.5	78.1
0°-90°	3703.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3703.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1255	1255	1255	1255	1255	
5°	1247	1247	1247	1251	1253	119
15°	1204	1204	1204	1210	1213	340
25°	1121	1123	1123	1133	1140	518
35°	1007	1007	1007	1018	1028	630
45°	863	857	857	870	883	664
55°	686	684	679	690	705	614
65°	486	480	473	488	504	481
75°	270	264	253	225	216	285
85°	58	54	56	54	54	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1254.6	1254.6	1254.6	1254.6	1254.6
2.5°	1252.7	1250.8	1250.8	1254.6	1254.6
5°	1247.1	1247.1	1247.1	1250.8	1252.7
7.5°	1239.6	1239.6	1239.6	1245.2	1245.2
10°	1230.2	1228.3	1230.2	1233.9	1237.7
12.5°	1218.9	1217.0	1218.9	1222.7	1226.4
15°	1203.9	1203.9	1203.9	1209.5	1213.3
17.5°	1187.0	1185.2	1187.0	1192.7	1198.3
20°	1168.3	1168.3	1168.3	1175.8	1183.3
22.5°	1147.7	1145.8	1147.7	1157.0	1164.5
25°	1121.4	1123.3	1123.3	1132.7	1140.2
27.5°	1097.0	1095.2	1098.9	1106.4	1115.8
30°	1068.9	1068.9	1070.8	1080.2	1089.5
32.5°	1040.8	1038.9	1040.8	1050.2	1059.5
35°	1007.0	1007.0	1007.0	1018.3	1027.6
37.5°	973.3	971.4	971.4	982.6	995.8
40°	935.8	933.9	933.9	947.0	956.4
42.5°	900.1	898.3	898.3	909.5	922.6
45°	862.6	857.0	857.0	870.1	883.3
47.5°	819.5	815.7	817.6	828.9	842.0
50°	778.2	772.6	770.7	783.9	797.0
52.5°	733.2	731.4	725.7	737.0	752.0
55°	686.3	684.5	678.8	690.1	705.1
57.5°	641.3	635.7	630.1	639.5	656.3
60°	590.7	585.1	577.6	590.7	605.7
62.5°	540.1	532.6	527.0	538.2	555.1
65°	485.7	480.1	472.6	487.6	504.4
67.5°	435.1	429.4	420.1	433.2	444.4
70°	378.8	371.3	367.6	369.4	373.2
72.5°	324.4	320.7	315.0	300.0	296.3
75°	270.0	264.4	253.2	225.0	215.7
77.5°	215.7	211.9	191.3	166.9	166.9
80°	159.4	157.5	133.1	136.9	138.8
82.5°	108.8	105.0	97.5	95.6	95.6
85°	58.1	54.4	56.3	54.4	54.4
87.5°	22.5	22.5	24.4	22.5	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)