

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: P238876

Luminaire Tested: **22ENA-LD2-43-UNV-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238876  
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-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: 4168.0 lumens  
Efficiency: N/A  
Efficacy: 108.8 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

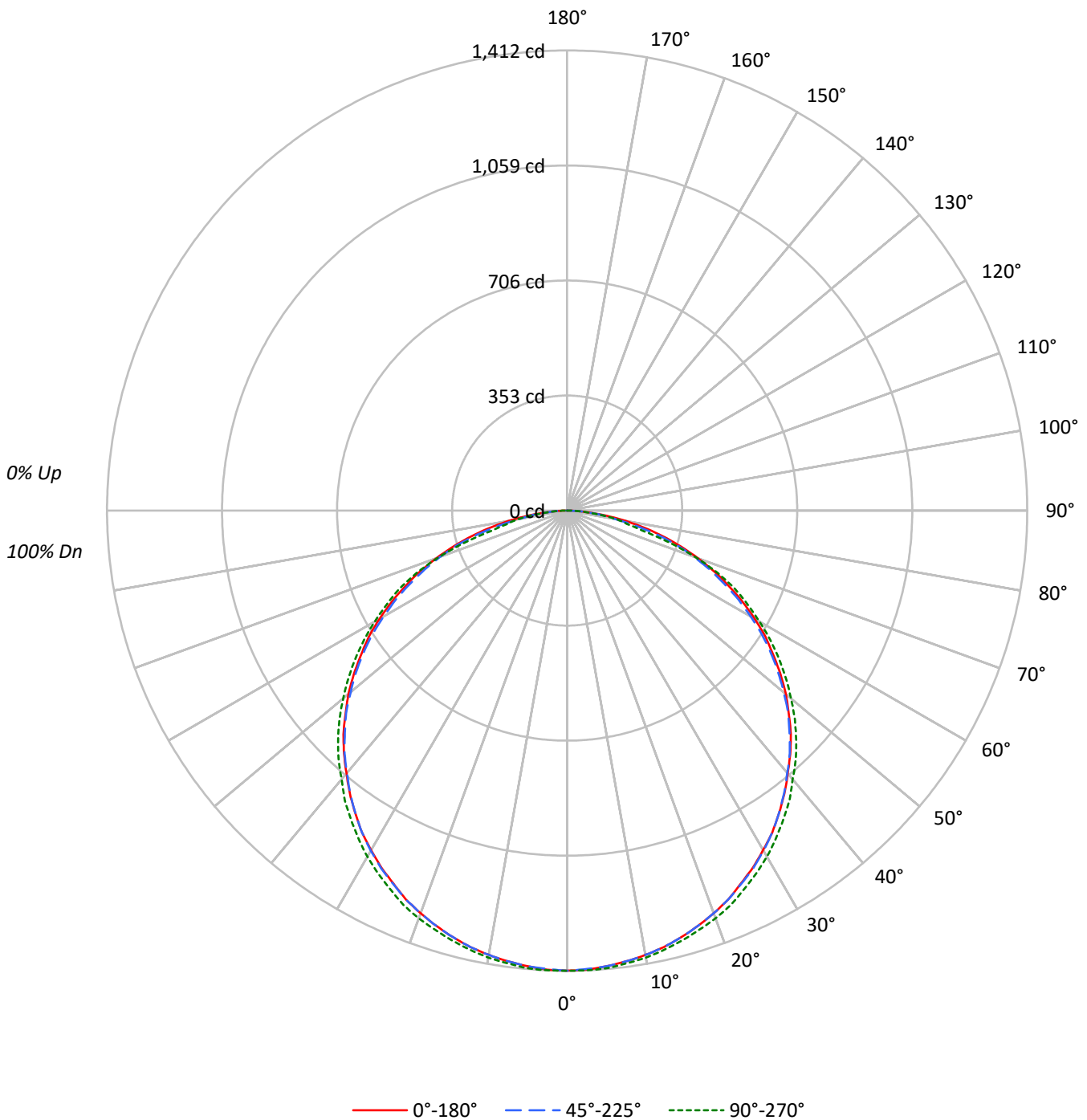
Input Watts (W): 38.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4974	4974	4974
5°	4963	4963	4985
10°	4952	4952	4983
15°	4942	4942	4980
20°	4929	4929	4993
25°	4906	4914	4988
30°	4893	4902	4988
35°	4874	4874	4974
40°	4843	4834	4950
45°	4837	4805	4953
50°	4800	4754	4916
55°	4744	4692	4874
60°	4684	4580	4803
65°	4556	4434	4732
70°	4391	4261	4326
75°	4136	3878	3303
80°	3639	3039	3169
85°	2643	2559	2474



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.5	3.2
10°-20°	383.3	9.2
20°-30°	585.1	14.0
30°-40°	712.7	17.1
40°-50°	750.1	18.0
50°-60°	690.6	16.6
60°-70°	537.6	12.9
70°-80°	298.4	7.2
80°-90°	76.7	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°	1101.9	26.4
0°-40°	1814.6	43.5
0°-60°	3255.4	78.1
0°-90°	4168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4168.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1404	1404	1404	1408	1410	133
15°	1355	1355	1355	1361	1366	383
25°	1262	1264	1264	1275	1283	583
35°	1133	1133	1133	1146	1157	709
45°	971	964	964	979	994	748
55°	772	770	764	777	794	691
65°	547	540	532	549	568	542
75°	304	298	285	253	243	320
85°	65	61	63	61	61	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1412.0	1412.0	1412.0	1412.0	1412.0
2.5°	1409.8	1407.7	1407.7	1412.0	1412.0
5°	1403.5	1403.5	1403.5	1407.7	1409.8
7.5°	1395.1	1395.1	1395.1	1401.4	1401.4
10°	1384.5	1382.4	1384.5	1388.7	1393.0
12.5°	1371.9	1369.7	1371.9	1376.1	1380.3
15°	1355.0	1355.0	1355.0	1361.3	1365.5
17.5°	1336.0	1333.9	1336.0	1342.3	1348.6
20°	1314.9	1314.9	1314.9	1323.3	1331.8
22.5°	1291.7	1289.5	1291.7	1302.2	1310.7
25°	1262.1	1264.2	1264.2	1274.8	1283.2
27.5°	1234.7	1232.6	1236.8	1245.2	1255.8
30°	1203.0	1203.0	1205.1	1215.7	1226.2
32.5°	1171.4	1169.2	1171.4	1181.9	1192.5
35°	1133.4	1133.4	1133.4	1146.0	1156.6
37.5°	1095.4	1093.3	1093.3	1105.9	1120.7
40°	1053.2	1051.1	1051.1	1065.8	1076.4
42.5°	1013.1	1011.0	1011.0	1023.6	1038.4
45°	970.9	964.5	964.5	979.3	994.1
47.5°	922.3	918.1	920.2	932.9	947.6
50°	875.9	869.5	867.4	882.2	897.0
52.5°	825.2	823.1	816.8	829.4	846.3
55°	772.5	770.4	764.0	776.7	793.6
57.5°	721.8	715.5	709.1	719.7	738.7
60°	664.8	658.5	650.1	664.8	681.7
62.5°	607.8	599.4	593.1	605.7	624.7
65°	546.6	540.3	531.9	548.7	567.7
67.5°	489.6	483.3	472.8	487.5	500.2
70°	426.3	417.9	413.7	415.8	420.0
72.5°	365.1	360.9	354.6	337.7	333.5
75°	303.9	297.6	284.9	253.3	242.7
77.5°	242.7	238.5	215.3	187.8	187.8
80°	179.4	177.3	149.8	154.1	156.2
82.5°	122.4	118.2	109.7	107.6	107.6
85°	65.4	61.2	63.3	61.2	61.2
87.5°	25.3	25.3	27.4	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)