

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: P238826

Luminaire Tested: **22ENA-LD2-43-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238826  
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-L835-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
AIR-VENTED OPTION  
Light Source: (168)3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4366.5 lumens  
Efficiency: N/A  
Efficacy: 114.0 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

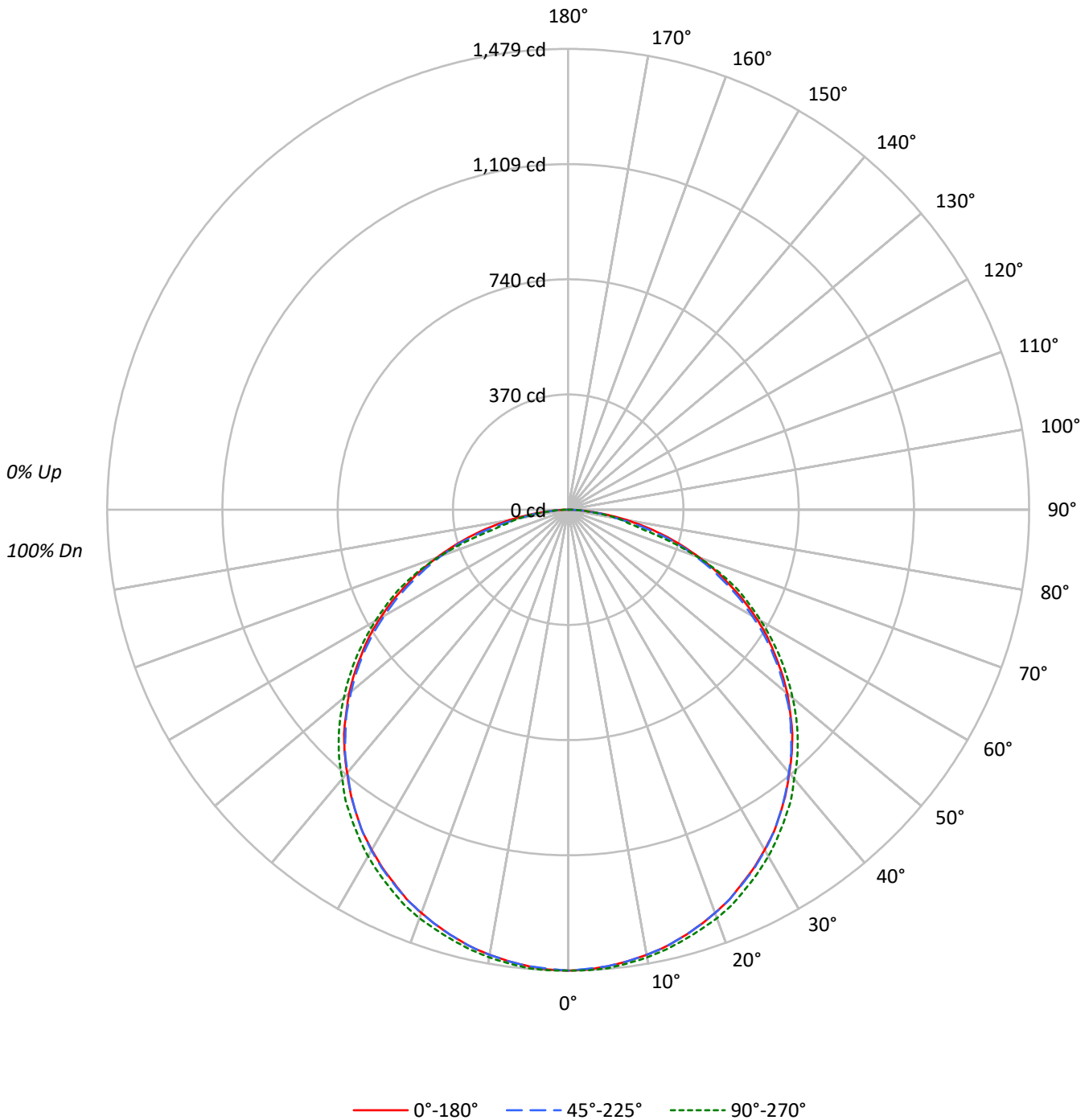
Input Watts (W): 38.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5211	5211	5211
5°	5200	5200	5223
10°	5189	5189	5220
15°	5177	5177	5217
20°	5164	5164	5230
25°	5139	5148	5225
30°	5127	5135	5225
35°	5106	5106	5211
40°	5074	5064	5185
45°	5067	5034	5188
50°	5029	4980	5150
55°	4970	4916	5106
60°	4907	4798	5032
65°	4774	4645	4958
70°	4600	4464	4532
75°	4334	4063	3461
80°	3812	3185	3319
85°	2769	2680	2591



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.9	3.2
10°-20°	401.5	9.2
20°-30°	613.0	14.0
30°-40°	746.6	17.1
40°-50°	785.9	18.0
50°-60°	723.5	16.6
60°-70°	563.2	12.9
70°-80°	312.6	7.2
80°-90°	80.3	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°	1154.4	26.4
0°-40°	1901.0	43.5
0°-60°	3410.4	78.1
0°-90°	4366.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4366.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1479	1479	1479	1479	1479	
5°	1470	1470	1470	1475	1477	140
15°	1420	1420	1420	1426	1431	401
25°	1322	1324	1324	1336	1344	610
35°	1187	1187	1187	1201	1212	743
45°	1017	1010	1010	1026	1041	783
55°	809	807	800	814	831	724
65°	573	566	557	575	595	568
75°	318	312	298	265	254	336
85°	68	64	66	64	64	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1479.2	1479.2	1479.2	1479.2	1479.2
2.5°	1477.0	1474.8	1474.8	1479.2	1479.2
5°	1470.4	1470.4	1470.4	1474.8	1477.0
7.5°	1461.5	1461.5	1461.5	1468.1	1468.1
10°	1450.5	1448.2	1450.5	1454.9	1459.3
12.5°	1437.2	1435.0	1437.2	1441.6	1446.0
15°	1419.5	1419.5	1419.5	1426.1	1430.6
17.5°	1399.6	1397.4	1399.6	1406.2	1412.9
20°	1377.5	1377.5	1377.5	1386.3	1395.2
22.5°	1353.2	1351.0	1353.2	1364.2	1373.1
25°	1322.2	1324.4	1324.4	1335.5	1344.3
27.5°	1293.5	1291.3	1295.7	1304.5	1315.6
30°	1260.3	1260.3	1262.5	1273.6	1284.6
32.5°	1227.1	1224.9	1227.1	1238.2	1249.2
35°	1187.3	1187.3	1187.3	1200.6	1211.7
37.5°	1147.5	1145.3	1145.3	1158.6	1174.1
40°	1103.3	1101.1	1101.1	1116.6	1127.6
42.5°	1061.3	1059.1	1059.1	1072.4	1087.8
45°	1017.1	1010.5	1010.5	1025.9	1041.4
47.5°	966.2	961.8	964.0	977.3	992.8
50°	917.6	911.0	908.7	924.2	939.7
52.5°	864.5	862.3	855.7	868.9	886.6
55°	809.2	807.0	800.4	813.7	831.4
57.5°	756.2	749.5	742.9	754.0	773.9
60°	696.5	689.8	681.0	696.5	714.2
62.5°	636.8	627.9	621.3	634.6	654.5
65°	572.7	566.0	557.2	574.9	594.8
67.5°	513.0	506.3	495.3	510.8	524.0
70°	446.6	437.8	433.4	435.6	440.0
72.5°	382.5	378.1	371.5	353.8	349.3
75°	318.4	311.8	298.5	265.3	254.3
77.5°	254.3	249.8	225.5	196.8	196.8
80°	187.9	185.7	157.0	161.4	163.6
82.5°	128.2	123.8	115.0	112.8	112.8
85°	68.5	64.1	66.3	64.1	64.1
87.5°	26.5	26.5	28.7	26.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)