

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: P238824

Luminaire Tested: **22ENA-LD2-39-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238824  
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-L850-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
AIR-VENTED OPTION  
Light Source: (168)5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4306.2 lumens  
Efficiency: N/A  
Efficacy: 129.3 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

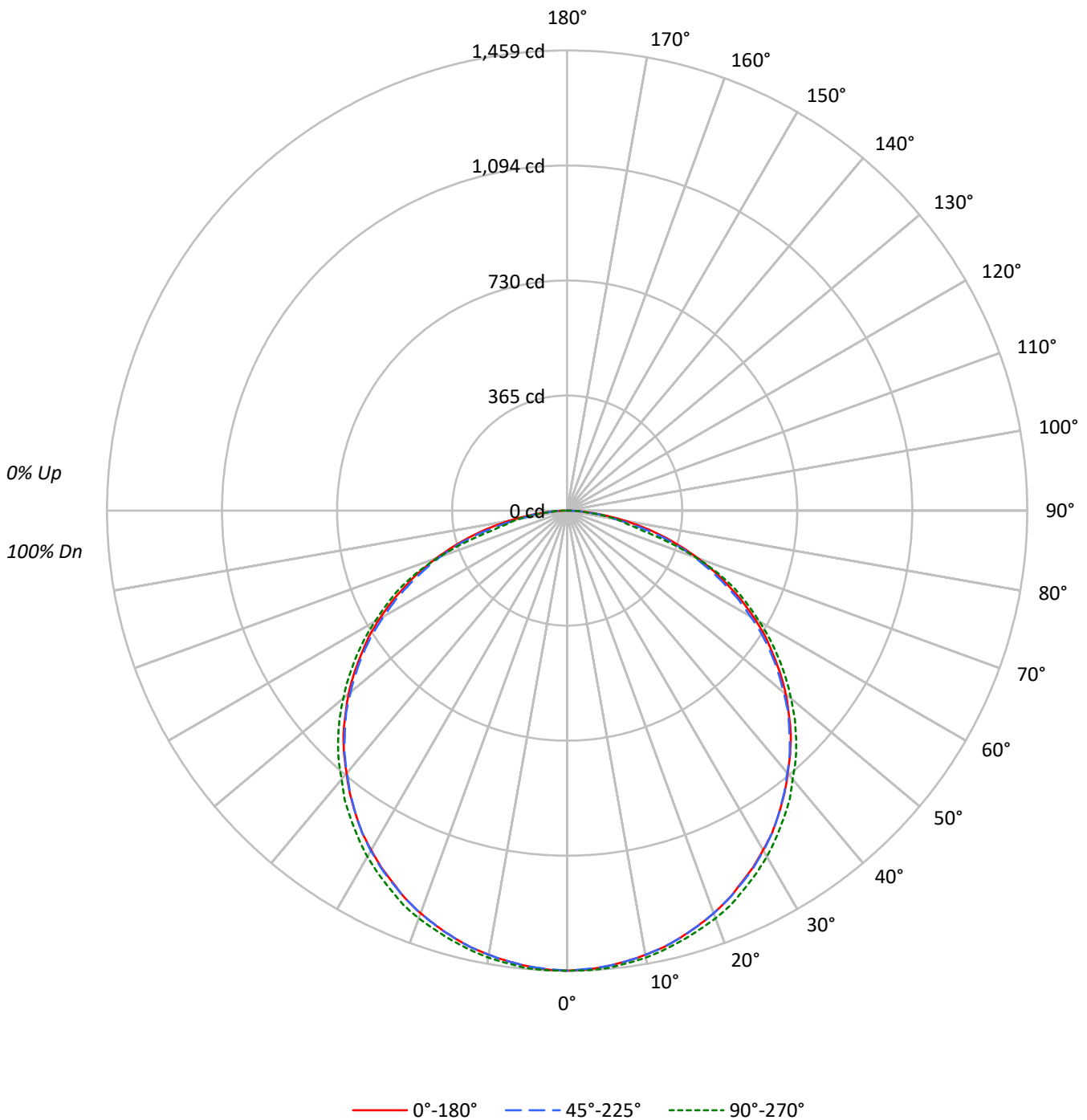
Input Watts (W): 33.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5139	5139	5139
5°	5128	5128	5151
10°	5117	5117	5148
15°	5105	5105	5145
20°	5093	5093	5158
25°	5069	5077	5153
30°	5056	5065	5153
35°	5036	5036	5139
40°	5004	4994	5114
45°	4997	4964	5116
50°	4959	4912	5079
55°	4902	4848	5036
60°	4840	4732	4962
65°	4708	4580	4890
70°	4537	4402	4469
75°	4274	4007	3414
80°	3759	3140	3274
85°	2732	2643	2554



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.0	3.2
10°-20°	396.0	9.2
20°-30°	604.5	14.0
30°-40°	736.3	17.1
40°-50°	775.0	18.0
50°-60°	713.6	16.6
60°-70°	555.4	12.9
70°-80°	308.3	7.2
80°-90°	79.2	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°	1138.5	26.4
0°-40°	1874.8	43.5
0°-60°	3363.3	78.1
0°-90°	4306.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4306.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1450	1450	1450	1454	1457	138
15°	1400	1400	1400	1406	1411	395
25°	1304	1306	1306	1317	1326	602
35°	1171	1171	1171	1184	1195	733
45°	1003	996	996	1012	1027	772
55°	798	796	789	802	820	714
65°	565	558	550	567	587	560
75°	314	308	294	262	251	331
85°	68	63	65	63	63	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1458.8	1458.8	1458.8	1458.8	1458.8
2.5°	1456.6	1454.4	1454.4	1458.8	1458.8
5°	1450.1	1450.1	1450.1	1454.4	1456.6
7.5°	1441.3	1441.3	1441.3	1447.9	1447.9
10°	1430.4	1428.3	1430.4	1434.8	1439.2
12.5°	1417.4	1415.2	1417.4	1421.7	1426.1
15°	1399.9	1399.9	1399.9	1406.5	1410.8
17.5°	1380.3	1378.1	1380.3	1386.8	1393.4
20°	1358.5	1358.5	1358.5	1367.2	1375.9
22.5°	1334.5	1332.3	1334.5	1345.4	1354.1
25°	1304.0	1306.1	1306.1	1317.0	1325.8
27.5°	1275.6	1273.4	1277.8	1286.5	1297.4
30°	1242.9	1242.9	1245.1	1256.0	1266.9
32.5°	1210.2	1208.0	1210.2	1221.1	1232.0
35°	1171.0	1171.0	1171.0	1184.0	1194.9
37.5°	1131.7	1129.5	1129.5	1142.6	1157.9
40°	1088.1	1085.9	1085.9	1101.2	1112.1
42.5°	1046.7	1044.5	1044.5	1057.6	1072.8
45°	1003.1	996.5	996.5	1011.8	1027.0
47.5°	952.9	948.5	950.7	963.8	979.1
50°	904.9	898.4	896.2	911.5	926.7
52.5°	852.6	850.4	843.9	857.0	874.4
55°	798.1	795.9	789.4	802.4	819.9
57.5°	745.7	739.2	732.7	743.6	763.2
60°	686.9	680.3	671.6	686.9	704.3
62.5°	628.0	619.3	612.7	625.8	645.4
65°	564.8	558.2	549.5	566.9	586.6
67.5°	505.9	499.3	488.4	503.7	516.8
70°	440.5	431.7	427.4	429.6	433.9
72.5°	377.2	372.9	366.3	348.9	344.5
75°	314.0	307.5	294.4	261.7	250.8
77.5°	250.8	246.4	222.4	194.1	194.1
80°	185.3	183.2	154.8	159.2	161.4
82.5°	126.5	122.1	113.4	111.2	111.2
85°	67.6	63.2	65.4	63.2	63.2
87.5°	26.2	26.2	28.3	26.2	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)