

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: P238676

Luminaire Tested: **14ENA-LD2-43-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238676  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-395-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14ENA-LD2-43-UNV-L850-CD1-U  
Description: METALUX ENCOUNTER 1X4 LED TROFFER  
AIR-VENTED OPTION  
Light Source: (224)5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4138.2 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 0.67' x L: 3.83' x H: 0')  
CIE Type: Direct

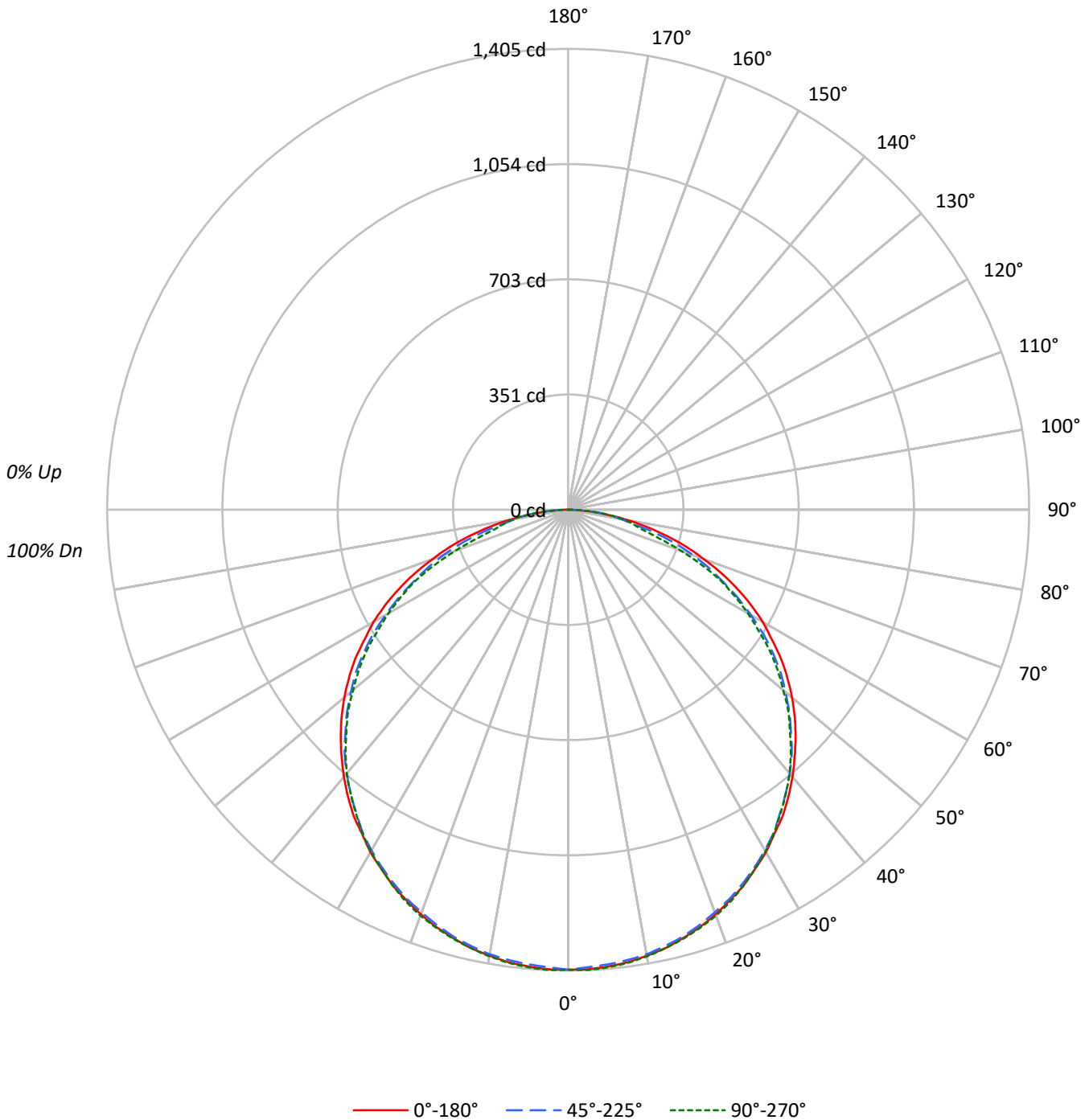
Input Watts (W): 37.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	97	94	97	94	91	93	90	88	90	87	85	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	40	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°	5907	5907	5907
5°	5911	5883	5921
10°	5905	5886	5914
15°	5896	5877	5905
20°	5884	5855	5904
25°	5877	5846	5877
30°	5863	5831	5852
35°	5861	5794	5805
40°	5846	5774	5774
45°	5839	5721	5695
50°	5835	5663	5606
55°	5816	5591	5511
60°	5769	5418	5326
65°	5648	5189	5125
70°	5416	4985	4500
75°	5092	4487	3774
80°	4512	3874	4245
85°	3489	4016	3808



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.8	3.2
10°-20°	381.4	9.2
20°-30°	581.4	14.0
30°-40°	708.0	17.1
40°-50°	744.4	18.0
50°-60°	683.3	16.5
60°-70°	525.0	12.7
70°-80°	293.0	7.1
80°-90°	89.0	2.1
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°	1095.6	26.5
0°-40°	1803.6	43.6
0°-60°	3231.3	78.1
0°-90°	4138.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4138.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1402	1402	1402	1402	1402	
5°	1398	1398	1392	1398	1400	133
15°	1352	1352	1348	1352	1354	382
25°	1265	1260	1258	1262	1265	582
35°	1140	1136	1127	1129	1129	712
45°	980	974	960	956	956	756
55°	792	786	761	748	750	706
65°	567	551	521	514	514	560
75°	313	298	276	238	232	331
85°	72	74	83	81	79	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1402.4	1402.4	1402.4	1402.4	1402.4
2.5°	1402.4	1402.4	1395.9	1402.4	1404.6
5°	1398.1	1398.1	1391.5	1398.1	1400.3
7.5°	1391.5	1391.5	1384.9	1389.3	1393.7
10°	1380.6	1380.6	1376.2	1380.6	1382.8
12.5°	1369.6	1367.4	1363.1	1367.4	1369.6
15°	1352.1	1352.1	1347.8	1352.1	1354.3
17.5°	1334.6	1332.4	1328.1	1334.6	1336.8
20°	1312.7	1310.6	1306.2	1312.7	1317.1
22.5°	1288.7	1286.5	1284.3	1290.9	1293.1
25°	1264.6	1260.2	1258.0	1262.4	1264.6
27.5°	1234.0	1231.8	1229.6	1231.8	1234.0
30°	1205.5	1201.2	1199.0	1199.0	1203.3
32.5°	1170.5	1168.3	1166.2	1168.3	1168.3
35°	1139.9	1135.5	1126.8	1129.0	1129.0
37.5°	1102.7	1096.1	1089.6	1089.6	1089.6
40°	1063.3	1058.9	1050.2	1048.0	1050.2
42.5°	1021.8	1017.4	1008.6	1002.1	1004.3
45°	980.2	973.6	960.5	956.1	956.1
47.5°	936.4	929.9	914.5	908.0	910.2
50°	890.5	881.7	864.2	855.5	855.5
52.5°	842.3	833.6	816.1	805.2	805.2
55°	792.0	785.5	761.4	748.3	750.5
57.5°	735.1	728.6	704.5	689.2	689.2
60°	684.8	671.7	643.2	632.3	632.3
62.5°	627.9	612.6	584.2	571.0	573.2
65°	566.7	551.4	520.7	514.2	514.2
67.5°	505.4	492.3	463.8	452.9	442.0
70°	439.8	426.6	404.8	378.5	365.4
72.5°	378.5	363.2	343.5	304.1	291.0
75°	312.9	297.6	275.7	238.5	231.9
77.5°	249.4	236.3	205.7	196.9	201.3
80°	186.0	181.6	159.7	168.5	175.0
82.5°	124.7	122.5	126.9	131.3	131.3
85°	72.2	74.4	83.1	81.0	78.8
87.5°	30.6	37.2	35.0	35.0	35.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)