

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: P238740

Luminaire Tested: **14ENA-LD2-43-UNV-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238740  
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-L950-CD1-U  
Description: METALUX ENCOUNTER 1X4 LED TROFFER  
AIR-VENTED OPTION  
Light Source: (224)5000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3558.8 lumens  
Efficiency: N/A  
Efficacy: 94.7 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

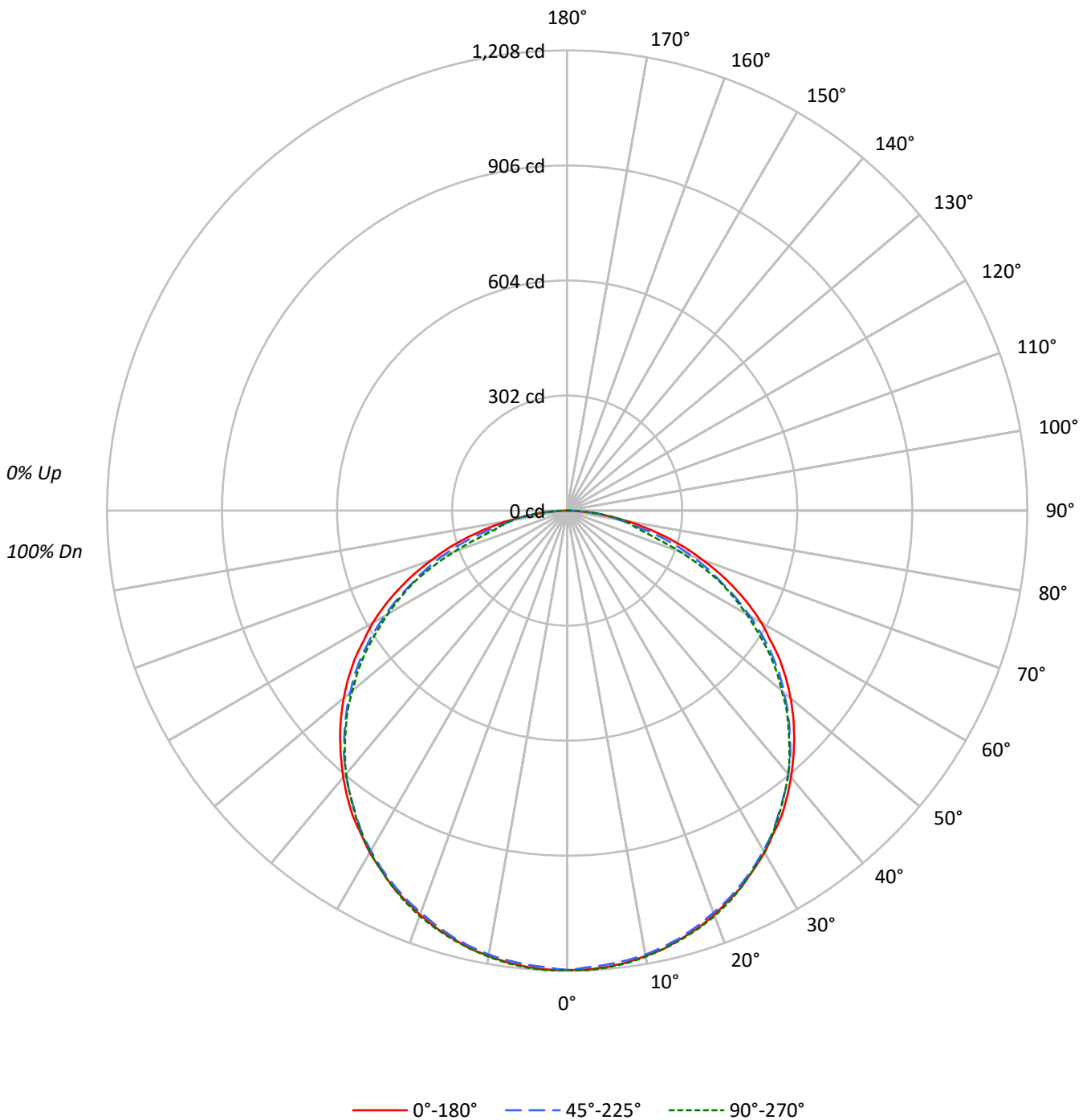
Input Watts (W): 37.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5080	5080	5080
5°	5083	5060	5091
10°	5078	5062	5086
15°	5070	5054	5079
20°	5061	5035	5077
25°	5055	5028	5055
30°	5043	5015	5033
35°	5041	4982	4992
40°	5028	4966	4966
45°	5021	4920	4898
50°	5018	4870	4821
55°	5002	4808	4739
60°	4961	4660	4581
65°	4857	4463	4407
70°	4658	4287	3869
75°	4379	3859	3245
80°	3878	3333	3650
85°	3001	3455	3272



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.2	3.2
10°-20°	328.0	9.2
20°-30°	500.0	14.0
30°-40°	608.9	17.1
40°-50°	640.2	18.0
50°-60°	587.6	16.5
60°-70°	451.5	12.7
70°-80°	252.0	7.1
80°-90°	76.5	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°	942.2	26.5
0°-40°	1551.1	43.6
0°-60°	2778.9	78.1
0°-90°	3558.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3558.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1202	1202	1197	1202	1204	114
15°	1163	1163	1159	1163	1165	328
25°	1088	1084	1082	1086	1088	501
35°	980	977	969	971	971	613
45°	843	837	826	822	822	650
55°	681	676	655	644	645	607
65°	487	474	448	442	442	481
75°	269	256	237	205	199	284
85°	62	64	72	70	68	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1206.1	1206.1	1206.1	1206.1	1206.1
2.5°	1206.1	1206.1	1200.5	1206.1	1208.0
5°	1202.3	1202.3	1196.7	1202.3	1204.2
7.5°	1196.7	1196.7	1191.1	1194.8	1198.6
10°	1187.3	1187.3	1183.5	1187.3	1189.2
12.5°	1177.9	1176.0	1172.2	1176.0	1177.9
15°	1162.8	1162.8	1159.1	1162.8	1164.7
17.5°	1147.8	1145.9	1142.1	1147.8	1149.7
20°	1129.0	1127.1	1123.3	1129.0	1132.7
22.5°	1108.3	1106.4	1104.5	1110.1	1112.0
25°	1087.6	1083.8	1081.9	1085.7	1087.6
27.5°	1061.2	1059.3	1057.5	1059.3	1061.2
30°	1036.8	1033.0	1031.1	1031.1	1034.9
32.5°	1006.7	1004.8	1002.9	1004.8	1004.8
35°	980.3	976.6	969.0	970.9	970.9
37.5°	948.3	942.7	937.0	937.0	937.0
40°	914.5	910.7	903.2	901.3	903.2
42.5°	878.7	874.9	867.4	861.8	863.7
45°	843.0	837.3	826.0	822.3	822.3
47.5°	805.3	799.7	786.5	780.9	782.7
50°	765.8	758.3	743.2	735.7	735.7
52.5°	724.4	716.9	701.8	692.4	692.4
55°	681.1	675.5	654.8	643.5	645.4
57.5°	632.2	626.6	605.9	592.7	592.7
60°	588.9	577.7	553.2	543.8	543.8
62.5°	540.0	526.8	502.4	491.1	493.0
65°	487.3	474.2	447.8	442.2	442.2
67.5°	434.6	423.4	398.9	389.5	380.1
70°	378.2	366.9	348.1	325.5	314.2
72.5°	325.5	312.3	295.4	261.5	250.3
75°	269.1	255.9	237.1	205.1	199.4
77.5°	214.5	203.2	176.9	169.3	173.1
80°	159.9	156.2	137.4	144.9	150.5
82.5°	107.3	105.4	109.1	112.9	112.9
85°	62.1	64.0	71.5	69.6	67.7
87.5°	26.3	32.0	30.1	30.1	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)