

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: P238673

Luminaire Tested: **14ENA-LD2-43-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238673
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-L830-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3615.5 lumens
Efficiency: N/A
Efficacy: 96.2 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

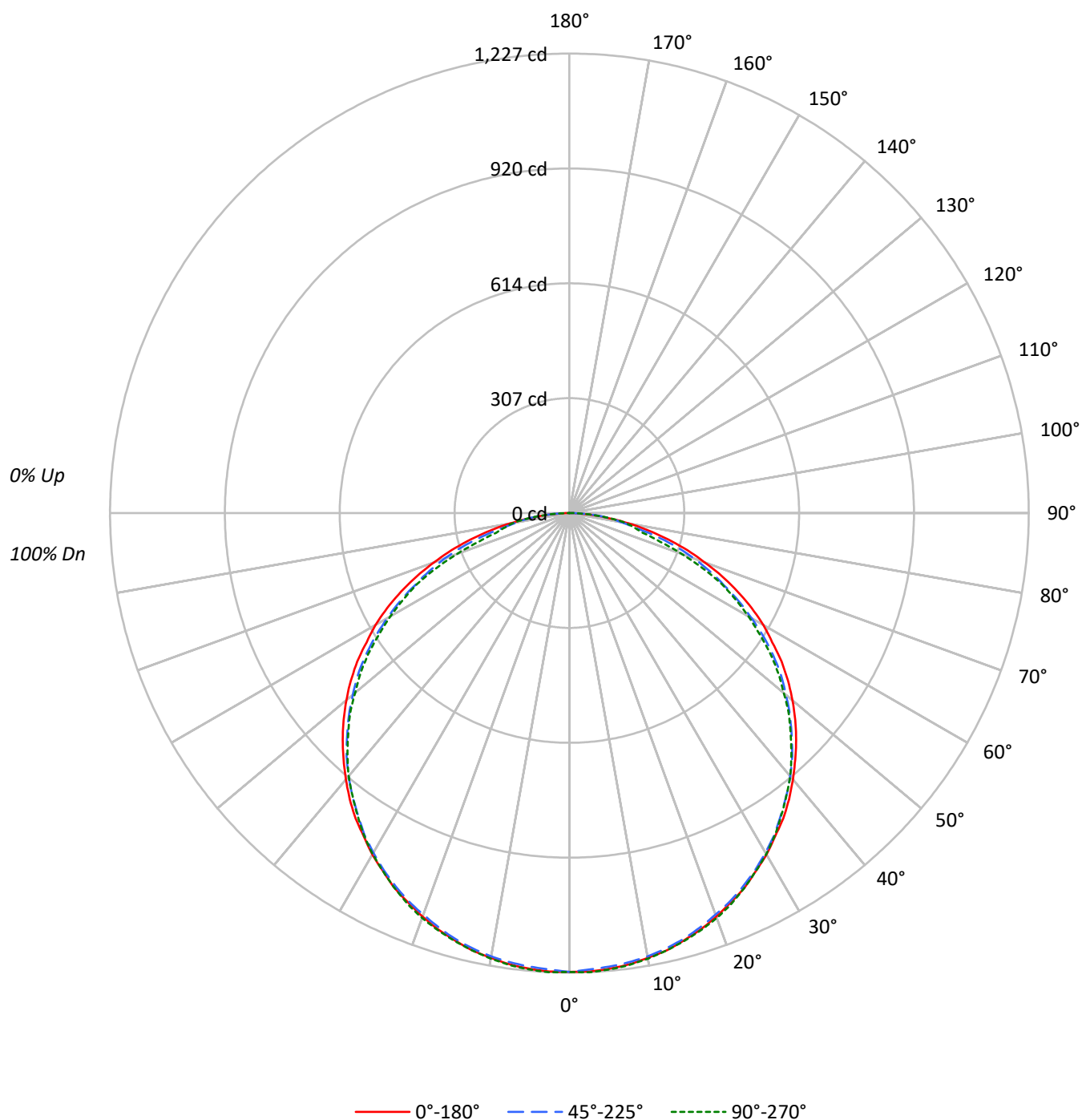
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	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°	5161	5161	5161
5°	5165	5140	5173
10°	5159	5143	5167
15°	5151	5135	5160
20°	5141	5115	5158
25°	5135	5108	5135
30°	5123	5095	5114
35°	5121	5062	5072
40°	5108	5045	5045
45°	5101	4999	4976
50°	5098	4948	4897
55°	5082	4885	4815
60°	5040	4734	4653
65°	4934	4535	4477
70°	4731	4355	3931
75°	4449	3920	3297
80°	3942	3384	3709
85°	3049	3509	3325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	3.2
10°-20°	333.3	9.2
20°-30°	508.0	14.0
30°-40°	618.6	17.1
40°-50°	650.4	18.0
50°-60°	597.0	16.5
60°-70°	458.7	12.7
70°-80°	256.0	7.1
80°-90°	77.7	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°	957.2	26.5
0°-40°	1575.8	43.6
0°-60°	2823.1	78.1
0°-90°	3615.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3615.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1225	1225	1225	1225	1225	
5°	1222	1222	1216	1222	1223	116
15°	1181	1181	1178	1181	1183	334
25°	1105	1101	1099	1103	1105	509
35°	996	992	984	986	986	622
45°	856	851	839	835	835	661
55°	692	686	665	654	656	617
65°	495	482	455	449	449	489
75°	273	260	241	208	203	289
85°	63	65	73	71	69	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1225.3	1225.3	1225.3	1225.3	1225.3
2.5°	1225.3	1225.3	1219.6	1225.3	1227.2
5°	1221.5	1221.5	1215.8	1221.5	1223.4
7.5°	1215.8	1215.8	1210.0	1213.8	1217.7
10°	1206.2	1206.2	1202.4	1206.2	1208.1
12.5°	1196.6	1194.7	1190.9	1194.7	1196.6
15°	1181.3	1181.3	1177.5	1181.3	1183.3
17.5°	1166.1	1164.1	1160.3	1166.1	1168.0
20°	1146.9	1145.0	1141.2	1146.9	1150.8
22.5°	1125.9	1124.0	1122.1	1127.8	1129.7
25°	1104.9	1101.1	1099.1	1103.0	1104.9
27.5°	1078.1	1076.2	1074.3	1076.2	1078.1
30°	1053.3	1049.4	1047.5	1047.5	1051.4
32.5°	1022.7	1020.8	1018.9	1020.8	1020.8
35°	995.9	992.1	984.5	986.4	986.4
37.5°	963.4	957.7	952.0	952.0	952.0
40°	929.0	925.2	917.5	915.6	917.5
42.5°	892.7	888.9	881.2	875.5	877.4
45°	856.4	850.6	839.2	835.4	835.4
47.5°	818.1	812.4	799.0	793.3	795.2
50°	778.0	770.4	755.1	747.4	747.4
52.5°	736.0	728.3	713.0	703.5	703.5
55°	692.0	686.3	665.2	653.8	655.7
57.5°	642.3	636.6	615.5	602.1	602.1
60°	598.3	586.8	562.0	552.4	552.4
62.5°	548.6	535.2	510.4	498.9	500.8
65°	495.1	481.7	455.0	449.2	449.2
67.5°	441.6	430.1	405.3	395.7	386.1
70°	384.2	372.8	353.6	330.7	319.2
72.5°	330.7	317.3	300.1	265.7	254.2
75°	273.4	260.0	240.9	208.4	202.6
77.5°	217.9	206.4	179.7	172.0	175.9
80°	162.5	158.7	139.5	147.2	152.9
82.5°	109.0	107.0	110.9	114.7	114.7
85°	63.1	65.0	72.6	70.7	68.8
87.5°	26.8	32.5	30.6	30.6	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)