

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: P238675

Luminaire Tested: **14ENA-LD2-43-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238675
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-L840-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3802.6 lumens
Efficiency: N/A
Efficacy: 101.1 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

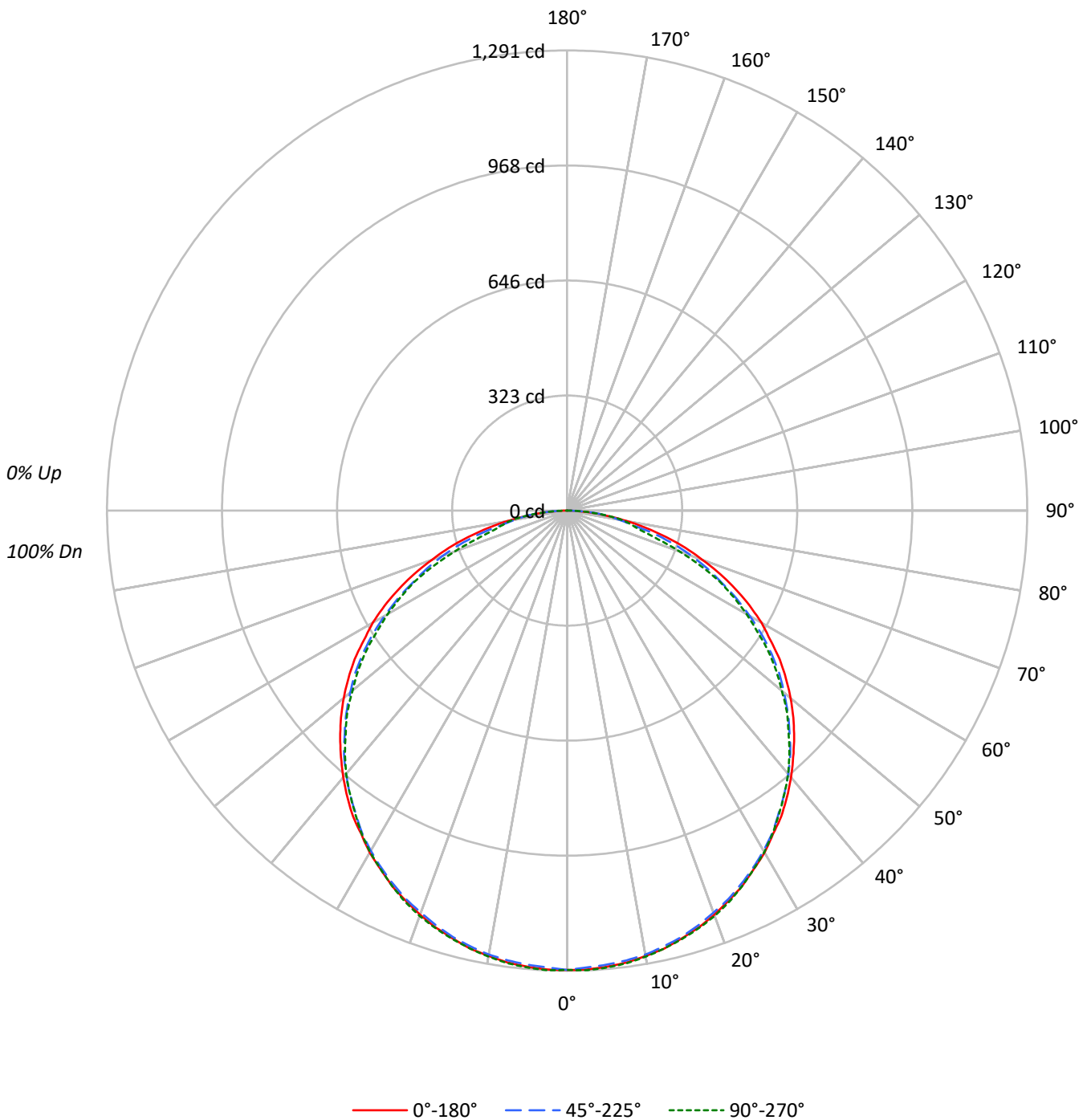
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5428	5428	5428
5°	5432	5406	5440
10°	5426	5409	5434
15°	5418	5401	5427
20°	5407	5380	5425
25°	5401	5372	5401
30°	5388	5359	5378
35°	5386	5324	5334
40°	5372	5306	5306
45°	5365	5257	5233
50°	5362	5204	5151
55°	5344	5138	5064
60°	5301	4979	4894
65°	5189	4769	4709
70°	4976	4580	4135
75°	4679	4122	3468
80°	4145	3561	3900
85°	3204	3692	3499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	3.2
10°-20°	350.5	9.2
20°-30°	534.2	14.0
30°-40°	650.6	17.1
40°-50°	684.0	18.0
50°-60°	627.9	16.5
60°-70°	482.4	12.7
70°-80°	269.2	7.1
80°-90°	81.7	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°	1006.8	26.5
0°-40°	1657.3	43.6
0°-60°	2969.3	78.1
0°-90°	3802.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3802.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1285	1285	1279	1285	1287	122
15°	1242	1242	1238	1242	1244	351
25°	1162	1158	1156	1160	1162	535
35°	1048	1044	1035	1037	1037	655
45°	901	895	883	879	879	695
55°	728	722	700	688	690	649
65°	521	507	478	472	472	514
75°	288	273	253	219	213	304
85°	66	68	76	74	72	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1288.7	1288.7	1288.7	1288.7	1288.7
2.5°	1288.7	1288.7	1282.7	1288.7	1290.7
5°	1284.7	1284.7	1278.7	1284.7	1286.7
7.5°	1278.7	1278.7	1272.7	1276.7	1280.7
10°	1268.6	1268.6	1264.6	1268.6	1270.6
12.5°	1258.6	1256.6	1252.5	1256.6	1258.6
15°	1242.5	1242.5	1238.5	1242.5	1244.5
17.5°	1226.4	1224.4	1220.4	1226.4	1228.4
20°	1206.3	1204.3	1200.3	1206.3	1210.3
22.5°	1184.2	1182.2	1180.2	1186.2	1188.2
25°	1162.1	1158.1	1156.0	1160.1	1162.1
27.5°	1133.9	1131.9	1129.9	1131.9	1133.9
30°	1107.8	1103.8	1101.8	1101.8	1105.8
32.5°	1075.6	1073.6	1071.6	1073.6	1073.6
35°	1047.5	1043.5	1035.4	1037.4	1037.4
37.5°	1013.3	1007.3	1001.2	1001.2	1001.2
40°	977.1	973.1	965.0	963.0	965.0
42.5°	938.9	934.9	926.8	920.8	922.8
45°	900.7	894.7	882.6	878.6	878.6
47.5°	860.5	854.5	840.4	834.4	836.4
50°	818.3	810.2	794.2	786.1	786.1
52.5°	774.0	766.0	749.9	739.9	739.9
55°	727.8	721.8	699.7	687.6	689.6
57.5°	675.5	669.5	647.4	633.3	633.3
60°	629.3	617.2	591.1	581.0	581.0
62.5°	577.0	562.9	536.8	524.7	526.8
65°	520.7	506.6	478.5	472.5	472.5
67.5°	464.4	452.4	426.2	416.2	406.1
70°	404.1	392.0	371.9	347.8	335.8
72.5°	347.8	333.7	315.7	279.5	267.4
75°	287.5	273.4	253.3	219.1	213.1
77.5°	229.2	217.1	189.0	180.9	185.0
80°	170.9	166.9	146.8	154.8	160.8
82.5°	114.6	112.6	116.6	120.6	120.6
85°	66.3	68.4	76.4	74.4	72.4
87.5°	28.1	34.2	32.2	32.2	32.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)