

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: P238742

Luminaire Tested: **14ENA-LD2-47-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238742
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-LD2-47-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3500.9 lumens
Efficiency: N/A
Efficacy: 84.4 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

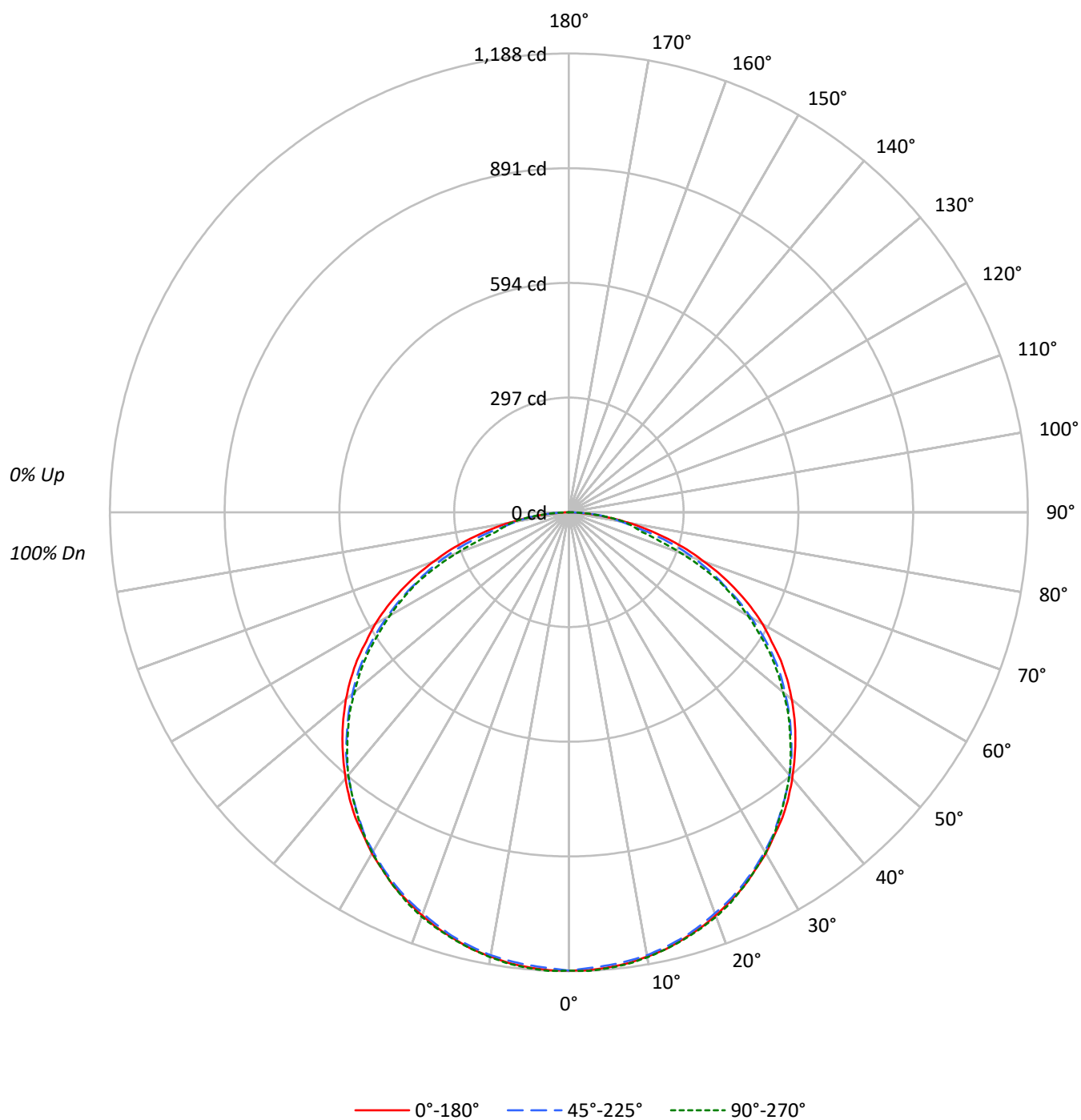
Input Watts (W): 41.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238742

CATALOG NUMBER: 14ENA-LD2-47-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238742

CATALOG NUMBER: 14ENA-LD2-47-UNV-L935-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	90	88		90	87	85
2	99	90	83	77	96	88	82	76		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	77	70	63		74	68	62		72	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	69	56	47	40	68	55	46	40		53	46	40		51	45	39		50	44	39
7	64	51	42	36	63	50	41	35		48	41	35		47	40	35		45	39	35
8	60	46	38	32	58	45	37	32		44	37	31		43	36	31		42	36	31
9	56	42	34	28	54	42	34	28		41	33	28		40	33	28		38	32	28
10	52	39	31	26	51	39	31	26		38	30	26		37	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4998	4998	4998
5°	5001	4977	5009
10°	4995	4980	5003
15°	4988	4972	4996
20°	4978	4953	4995
25°	4972	4946	4972
30°	4960	4933	4951
35°	4959	4901	4911
40°	4946	4885	4885
45°	4939	4840	4818
50°	4936	4791	4742
55°	4920	4730	4662
60°	4881	4584	4506
65°	4778	4390	4335
70°	4581	4217	3807
75°	4308	3795	3193
80°	3815	3277	3592
85°	2953	3397	3219



TEST NUMBER: P238742

CATALOG NUMBER: 14ENA-LD2-47-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	3.2
10°-20°	322.7	9.2
20°-30°	491.9	14.0
30°-40°	598.9	17.1
40°-50°	629.8	18.0
50°-60°	578.1	16.5
60°-70°	444.1	12.7
70°-80°	247.9	7.1
80°-90°	75.3	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°	926.9	26.5
0°-40°	1525.8	43.6
0°-60°	2733.6	78.1
0°-90°	3500.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3500.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1183	1183	1177	1183	1185	112
15°	1144	1144	1140	1144	1146	323
25°	1070	1066	1064	1068	1070	493
35°	964	961	953	955	955	603
45°	829	824	813	809	809	640
55°	670	664	644	633	635	598
65°	479	466	440	435	435	474
75°	265	252	233	202	196	280
85°	61	63	70	68	67	74
90°	0	0	0	0	0	



TEST NUMBER: P238742

CATALOG NUMBER: 14ENA-LD2-47-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1186.5	1186.5	1186.5	1186.5	1186.5
2.5°	1186.5	1186.5	1180.9	1186.5	1188.3
5°	1182.8	1182.8	1177.2	1182.8	1184.6
7.5°	1177.2	1177.2	1171.7	1175.4	1179.1
10°	1168.0	1168.0	1164.3	1168.0	1169.8
12.5°	1158.7	1156.9	1153.2	1156.9	1158.7
15°	1143.9	1143.9	1140.2	1143.9	1145.7
17.5°	1129.1	1127.2	1123.5	1129.1	1130.9
20°	1110.6	1108.7	1105.0	1110.6	1114.3
22.5°	1090.2	1088.4	1086.5	1092.1	1093.9
25°	1069.9	1066.2	1064.3	1068.0	1069.9
27.5°	1043.9	1042.1	1040.2	1042.1	1043.9
30°	1019.9	1016.2	1014.3	1014.3	1018.0
32.5°	990.3	988.4	986.6	988.4	988.4
35°	964.4	960.6	953.2	955.1	955.1
37.5°	932.9	927.3	921.8	921.8	921.8
40°	899.6	895.9	888.5	886.6	888.5
42.5°	864.4	860.7	853.3	847.7	849.6
45°	829.2	823.7	812.6	808.9	808.9
47.5°	792.2	786.7	773.7	768.1	770.0
50°	753.3	745.9	731.1	723.7	723.7
52.5°	712.6	705.2	690.4	681.2	681.2
55°	670.0	664.5	644.1	633.0	634.9
57.5°	621.9	616.4	596.0	583.1	583.1
60°	579.4	568.2	544.2	534.9	534.9
62.5°	531.2	518.3	494.2	483.1	485.0
65°	479.4	466.4	440.5	435.0	435.0
67.5°	427.6	416.5	392.4	383.1	373.9
70°	372.0	360.9	342.4	320.2	309.1
72.5°	320.2	307.3	290.6	257.3	246.2
75°	264.7	251.7	233.2	201.8	196.2
77.5°	211.0	199.9	174.0	166.6	170.3
80°	157.3	153.6	135.1	142.5	148.1
82.5°	105.5	103.7	107.4	111.1	111.1
85°	61.1	62.9	70.3	68.5	66.6
87.5°	25.9	31.5	29.6	29.6	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)