

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: P238736

Luminaire Tested: **14ENA-LD2-38-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238736
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-LD2-38-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: 3150.8 lumens
Efficiency: N/A
Efficacy: 96.1 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

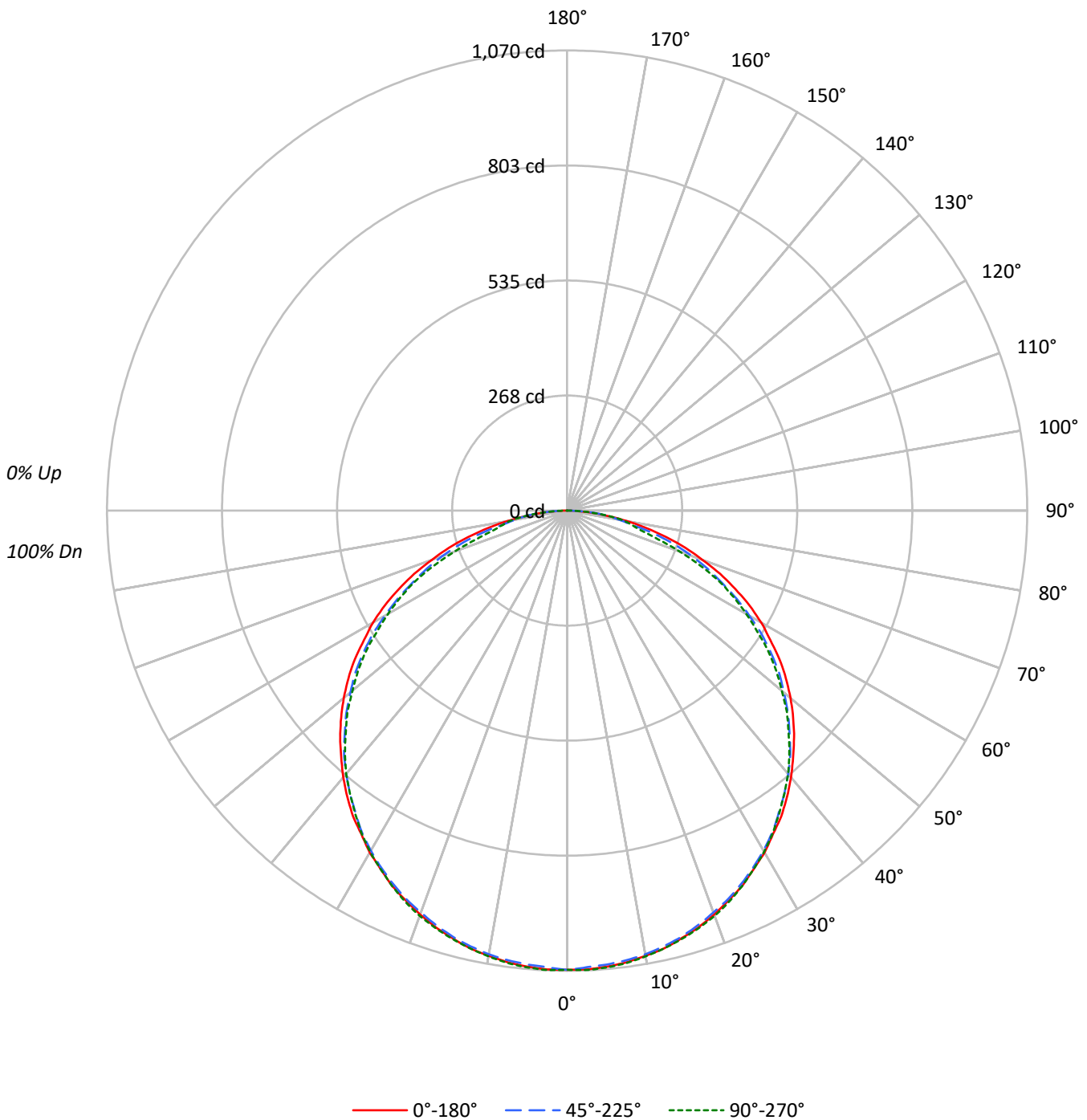
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4498	4498	4498
5°	4501	4480	4508
10°	4496	4481	4503
15°	4489	4475	4497
20°	4480	4458	4495
25°	4475	4452	4475
30°	4464	4440	4456
35°	4463	4411	4420
40°	4451	4396	4396
45°	4445	4356	4336
50°	4443	4312	4268
55°	4428	4257	4196
60°	4392	4126	4055
65°	4300	3952	3902
70°	4123	3795	3426
75°	3876	3416	2874
80°	3435	2950	3233
85°	2658	3059	2900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	3.2
10°-20°	290.4	9.2
20°-30°	442.7	14.0
30°-40°	539.1	17.1
40°-50°	566.8	18.0
50°-60°	520.3	16.5
60°-70°	399.7	12.7
70°-80°	223.1	7.1
80°-90°	67.7	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°	834.2	26.5
0°-40°	1373.2	43.6
0°-60°	2460.3	78.1
0°-90°	3150.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3150.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1064	1064	1060	1064	1066	101
15°	1030	1030	1026	1030	1031	291
25°	963	960	958	961	963	444
35°	868	865	858	860	860	542
45°	746	741	731	728	728	576
55°	603	598	580	570	571	538
65°	432	420	396	392	392	426
75°	238	227	210	182	177	252
85°	55	57	63	62	60	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1067.8	1067.8	1067.8	1067.8	1067.8
2.5°	1067.8	1067.8	1062.8	1067.8	1069.5
5°	1064.5	1064.5	1059.5	1064.5	1066.2
7.5°	1059.5	1059.5	1054.5	1057.8	1061.2
10°	1051.2	1051.2	1047.8	1051.2	1052.8
12.5°	1042.8	1041.2	1037.8	1041.2	1042.8
15°	1029.5	1029.5	1026.2	1029.5	1031.2
17.5°	1016.2	1014.5	1011.2	1016.2	1017.9
20°	999.5	997.9	994.5	999.5	1002.9
22.5°	981.2	979.5	977.9	982.9	984.5
25°	962.9	959.5	957.9	961.2	962.9
27.5°	939.6	937.9	936.2	937.9	939.6
30°	917.9	914.6	912.9	912.9	916.2
32.5°	891.2	889.6	887.9	889.6	889.6
35°	867.9	864.6	857.9	859.6	859.6
37.5°	839.6	834.6	829.6	829.6	829.6
40°	809.6	806.3	799.6	798.0	799.6
42.5°	778.0	774.6	768.0	763.0	764.6
45°	746.3	741.3	731.3	728.0	728.0
47.5°	713.0	708.0	696.3	691.3	693.0
50°	678.0	671.3	658.0	651.4	651.4
52.5°	641.4	634.7	621.4	613.0	613.0
55°	603.0	598.1	579.7	569.7	571.4
57.5°	559.7	554.7	536.4	524.8	524.8
60°	521.4	511.4	489.8	481.4	481.4
62.5°	478.1	466.4	444.8	434.8	436.5
65°	431.5	419.8	396.5	391.5	391.5
67.5°	384.8	374.8	353.2	344.8	336.5
70°	334.8	324.8	308.2	288.2	278.2
72.5°	288.2	276.5	261.5	231.6	221.6
75°	238.2	226.6	209.9	181.6	176.6
77.5°	189.9	179.9	156.6	149.9	153.3
80°	141.6	138.3	121.6	128.3	133.3
82.5°	95.0	93.3	96.6	100.0	100.0
85°	55.0	56.6	63.3	61.6	60.0
87.5°	23.3	28.3	26.7	26.7	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)