

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: P238666

Luminaire Tested: **14ENA-LD2-33-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238666
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-LD2-33-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2863.0 lumens
Efficiency: N/A
Efficacy: 101.9 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

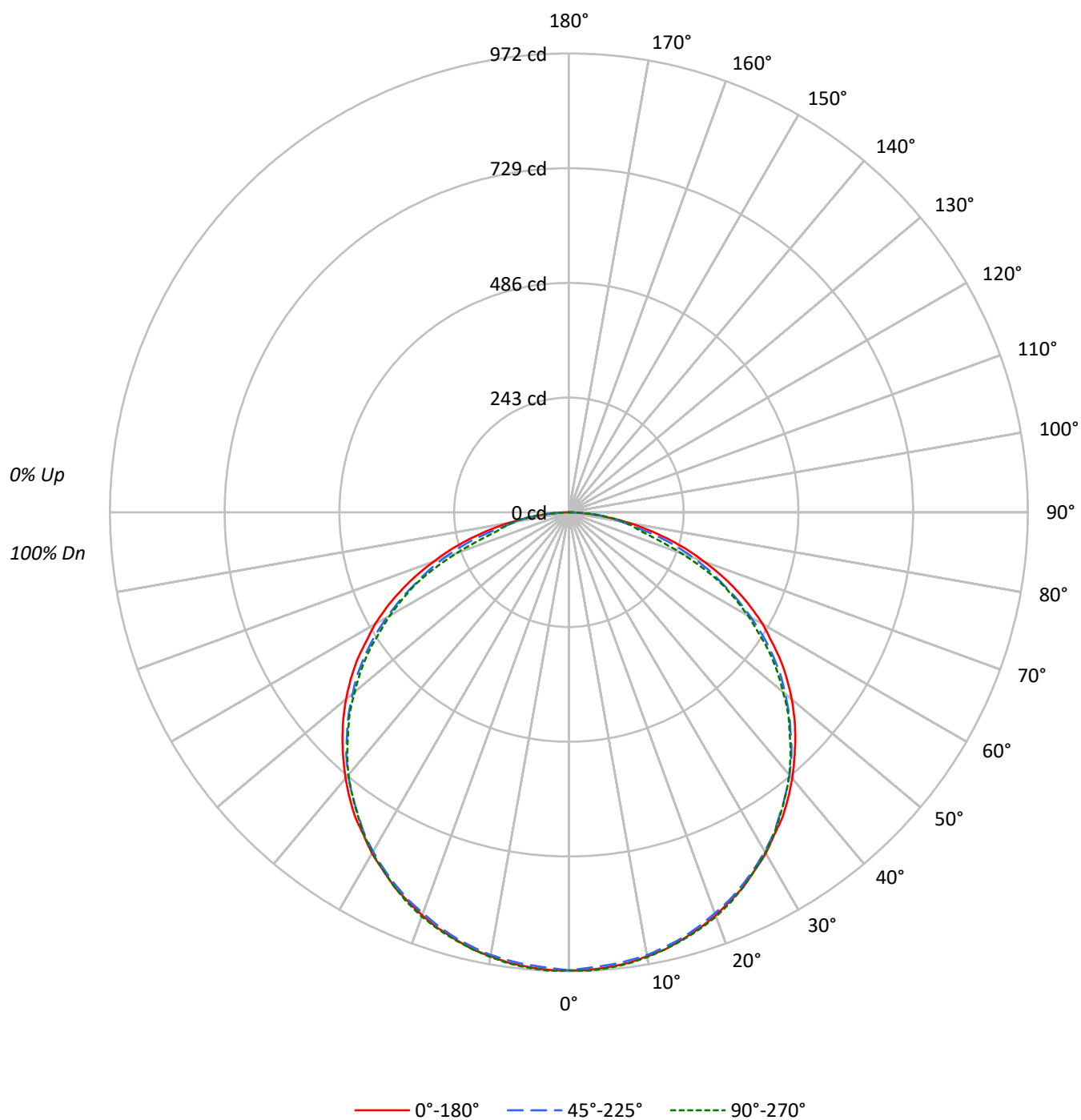
Input Watts (W): 28.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	41	33	28		40	33	28		26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4087	4087	4087
5°	4089	4070	4096
10°	4085	4072	4091
15°	4079	4066	4086
20°	4071	4051	4084
25°	4066	4045	4066
30°	4056	4034	4049
35°	4055	4008	4016
40°	4045	3995	3995
45°	4039	3958	3940
50°	4037	3918	3878
55°	4023	3868	3813
60°	3991	3749	3685
65°	3907	3591	3545
70°	3746	3448	3113
75°	3523	3103	2610
80°	3122	2680	2937
85°	2416	2779	2634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	3.2
10°-20°	263.9	9.2
20°-30°	402.2	14.0
30°-40°	489.8	17.1
40°-50°	515.0	18.0
50°-60°	472.7	16.5
60°-70°	363.2	12.7
70°-80°	202.7	7.1
80°-90°	61.5	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°	758.0	26.5
0°-40°	1247.8	43.6
0°-60°	2235.5	78.1
0°-90°	2863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2863.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	967	967	963	967	969	92
15°	935	935	932	935	937	264
25°	875	872	870	873	875	403
35°	789	786	780	781	781	493
45°	678	674	664	662	662	523
55°	548	543	527	518	519	489
65°	392	381	360	356	356	387
75°	216	206	191	165	160	229
85°	50	52	58	56	54	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.3	970.3	970.3	970.3	970.3
2.5°	970.3	970.3	965.7	970.3	971.8
5°	967.2	967.2	962.7	967.2	968.7
7.5°	962.7	962.7	958.2	961.2	964.2
10°	955.1	955.1	952.1	955.1	956.6
12.5°	947.6	946.0	943.0	946.0	947.6
15°	935.4	935.4	932.4	935.4	937.0
17.5°	923.3	921.8	918.8	923.3	924.9
20°	908.2	906.7	903.7	908.2	911.2
22.5°	891.6	890.0	888.5	893.1	894.6
25°	874.9	871.9	870.4	873.4	874.9
27.5°	853.7	852.2	850.7	852.2	853.7
30°	834.0	831.0	829.5	829.5	832.5
32.5°	809.8	808.3	806.8	808.3	808.3
35°	788.6	785.6	779.5	781.1	781.1
37.5°	762.9	758.3	753.8	753.8	753.8
40°	735.6	732.6	726.6	725.0	726.6
42.5°	706.9	703.9	697.8	693.3	694.8
45°	678.1	673.6	664.5	661.5	661.5
47.5°	647.9	643.3	632.7	628.2	629.7
50°	616.1	610.0	597.9	591.8	591.8
52.5°	582.8	576.7	564.6	557.0	557.0
55°	547.9	543.4	526.8	517.7	519.2
57.5°	508.6	504.1	487.4	476.8	476.8
60°	473.8	464.7	445.0	437.5	437.5
62.5°	434.4	423.8	404.1	395.1	396.6
65°	392.0	381.4	360.3	355.7	355.7
67.5°	349.7	340.6	320.9	313.3	305.8
70°	304.2	295.2	280.0	261.9	252.8
72.5°	261.9	251.3	237.6	210.4	201.3
75°	216.5	205.9	190.7	165.0	160.4
77.5°	172.6	163.5	142.3	136.2	139.3
80°	128.7	125.6	110.5	116.6	121.1
82.5°	86.3	84.8	87.8	90.8	90.8
85°	50.0	51.5	57.5	56.0	54.5
87.5°	21.2	25.7	24.2	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)