

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: P238733

Luminaire Tested: **14ENA-LD2-38-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238733
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-L930-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2765.7 lumens
Efficiency: N/A
Efficacy: 84.3 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

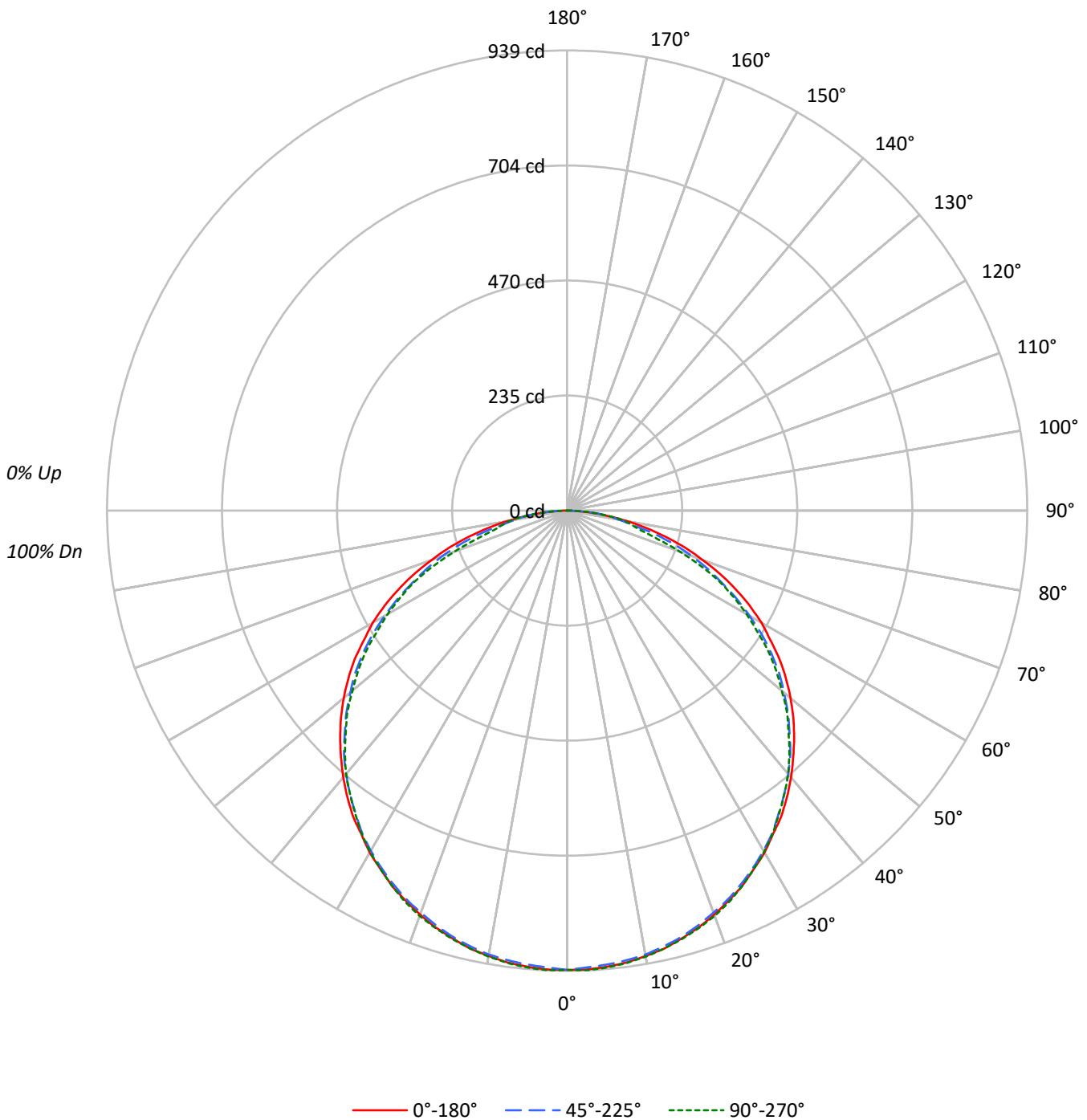
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3948	3948	3948
5°	3951	3932	3957
10°	3946	3934	3952
15°	3941	3928	3947
20°	3932	3913	3946
25°	3928	3908	3928
30°	3919	3897	3911
35°	3917	3872	3880
40°	3907	3859	3859
45°	3902	3824	3806
50°	3899	3785	3746
55°	3887	3737	3683
60°	3856	3621	3560
65°	3774	3468	3424
70°	3619	3331	3007
75°	3403	2998	2522
80°	3015	2588	2838
85°	2334	2687	2542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	3.2
10°-20°	254.9	9.2
20°-30°	388.6	14.0
30°-40°	473.2	17.1
40°-50°	497.5	18.0
50°-60°	456.7	16.5
60°-70°	350.8	12.7
70°-80°	195.8	7.1
80°-90°	59.4	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°	732.2	26.5
0°-40°	1205.4	43.6
0°-60°	2159.5	78.1
0°-90°	2765.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2765.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	934	934	930	934	936	89
15°	904	904	901	904	905	255
25°	845	842	841	844	845	389
35°	762	759	753	754	754	476
45°	655	651	642	639	639	505
55°	529	525	509	500	502	472
65°	379	368	348	344	344	374
75°	209	199	184	159	155	221
85°	48	50	56	54	53	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	937.3	937.3	937.3	937.3	937.3
2.5°	937.3	937.3	932.9	937.3	938.8
5°	934.4	934.4	930.0	934.4	935.8
7.5°	930.0	930.0	925.6	928.5	931.4
10°	922.7	922.7	919.7	922.7	924.1
12.5°	915.4	913.9	911.0	913.9	915.4
15°	903.7	903.7	900.7	903.7	905.1
17.5°	892.0	890.5	887.6	892.0	893.4
20°	877.3	875.9	873.0	877.3	880.3
22.5°	861.3	859.8	858.3	862.7	864.2
25°	845.2	842.2	840.8	843.7	845.2
27.5°	824.7	823.2	821.8	823.2	824.7
30°	805.7	802.8	801.3	801.3	804.2
32.5°	782.3	780.8	779.4	780.8	780.8
35°	761.8	758.9	753.1	754.5	754.5
37.5°	737.0	732.6	728.2	728.2	728.2
40°	710.6	707.7	701.9	700.4	701.9
42.5°	682.9	679.9	674.1	669.7	671.2
45°	655.1	650.7	641.9	639.0	639.0
47.5°	625.8	621.5	611.2	606.8	608.3
50°	595.1	589.3	577.6	571.7	571.7
52.5°	563.0	557.1	545.4	538.1	538.1
55°	529.3	524.9	508.9	500.1	501.5
57.5°	491.3	486.9	470.8	460.6	460.6
60°	457.7	448.9	429.9	422.6	422.6
62.5°	419.7	409.4	390.4	381.6	383.1
65°	378.7	368.5	348.0	343.6	343.6
67.5°	337.8	329.0	310.0	302.7	295.4
70°	293.9	285.1	270.5	253.0	244.2
72.5°	253.0	242.7	229.6	203.3	194.5
75°	209.1	198.9	184.2	159.4	155.0
77.5°	166.7	157.9	137.5	131.6	134.5
80°	124.3	121.4	106.7	112.6	117.0
82.5°	83.3	81.9	84.8	87.7	87.7
85°	48.3	49.7	55.6	54.1	52.6
87.5°	20.5	24.9	23.4	23.4	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)