

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: P238726

Luminaire Tested: **14ENA-LD2-28-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238726
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-LD2-28-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: 2082.9 lumens
Efficiency: N/A
Efficacy: 88.3 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

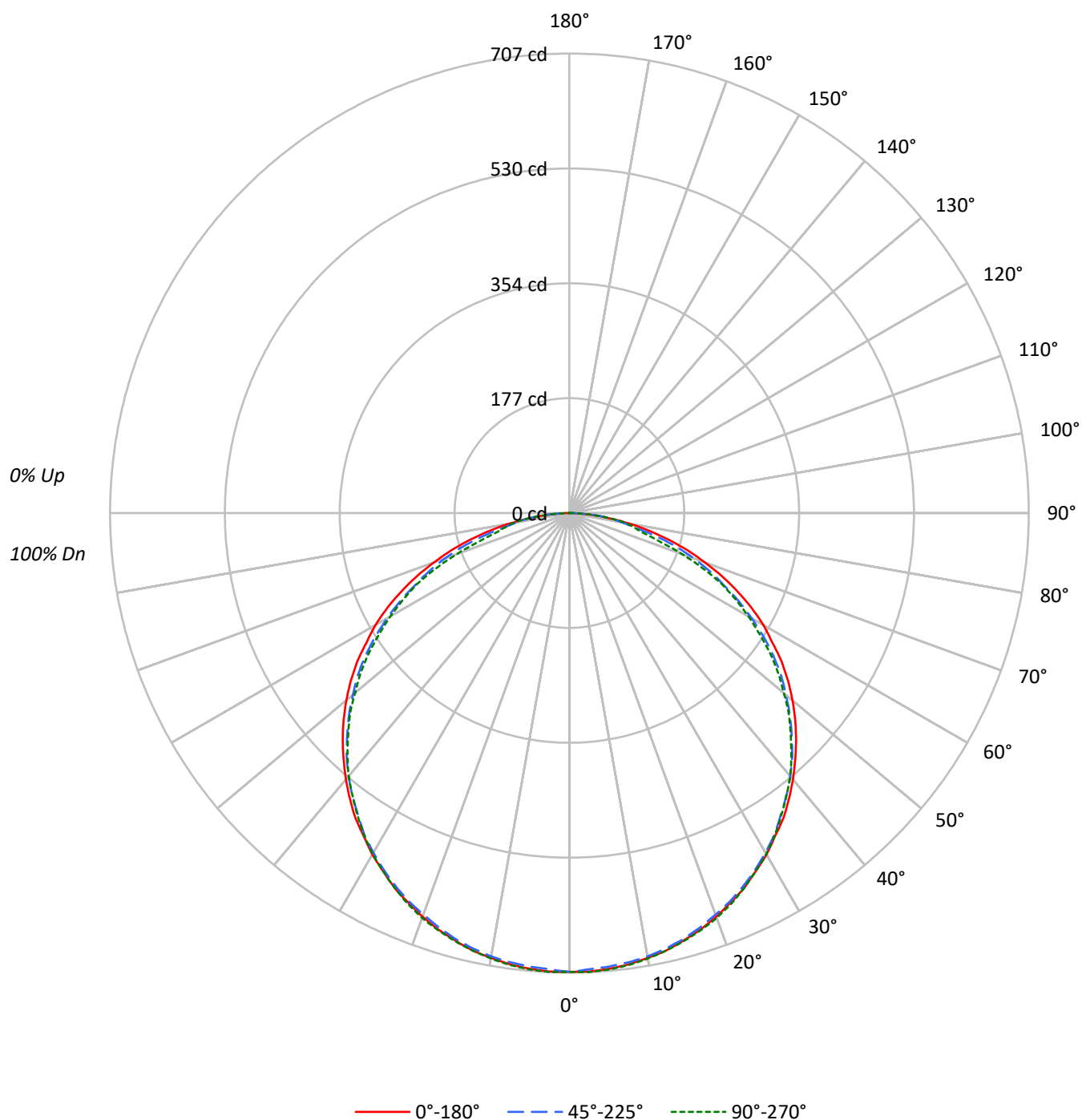
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2973	2973	2973
5°	2975	2961	2980
10°	2972	2963	2977
15°	2968	2958	2973
20°	2962	2947	2972
25°	2958	2943	2958
30°	2951	2935	2946
35°	2950	2916	2922
40°	2943	2906	2906
45°	2939	2880	2867
50°	2937	2850	2822
55°	2928	2814	2774
60°	2904	2728	2681
65°	2842	2612	2579
70°	2727	2509	2265
75°	2563	2259	1899
80°	2270	1950	2137
85°	1754	2020	1914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	3.2
10°-20°	192.0	9.2
20°-30°	292.6	14.0
30°-40°	356.4	17.1
40°-50°	374.7	18.0
50°-60°	343.9	16.5
60°-70°	264.2	12.7
70°-80°	147.5	7.1
80°-90°	44.8	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°	551.5	26.5
0°-40°	907.8	43.6
0°-60°	1626.4	78.1
0°-90°	2082.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2082.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	704	704	700	704	705	67
15°	681	681	678	681	682	192
25°	636	634	633	635	636	293
35°	574	572	567	568	568	359
45°	493	490	484	481	481	381
55°	399	395	383	377	378	356
65°	285	278	262	259	259	282
75°	158	150	139	120	117	166
85°	36	37	42	41	40	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.9	705.9	705.9	705.9	705.9
2.5°	705.9	705.9	702.6	705.9	707.0
5°	703.7	703.7	700.4	703.7	704.8
7.5°	700.4	700.4	697.1	699.3	701.5
10°	694.9	694.9	692.7	694.9	696.0
12.5°	689.4	688.3	686.1	688.3	689.4
15°	680.6	680.6	678.4	680.6	681.7
17.5°	671.8	670.7	668.5	671.8	672.9
20°	660.8	659.7	657.5	660.8	663.0
22.5°	648.6	647.5	646.4	649.7	650.8
25°	636.5	634.3	633.2	635.4	636.5
27.5°	621.1	620.0	618.9	620.0	621.1
30°	606.8	604.6	603.5	603.5	605.7
32.5°	589.2	588.1	587.0	588.1	588.1
35°	573.8	571.6	567.1	568.3	568.3
37.5°	555.0	551.7	548.4	548.4	548.4
40°	535.2	533.0	528.6	527.5	528.6
42.5°	514.3	512.1	507.7	504.4	505.5
45°	493.4	490.1	483.5	481.3	481.3
47.5°	471.3	468.0	460.3	457.0	458.1
50°	448.2	443.8	435.0	430.6	430.6
52.5°	424.0	419.6	410.8	405.3	405.3
55°	398.7	395.4	383.2	376.6	377.7
57.5°	370.0	366.7	354.6	346.9	346.9
60°	344.7	338.1	323.8	318.3	318.3
62.5°	316.1	308.4	294.0	287.4	288.5
65°	285.2	277.5	262.1	258.8	258.8
67.5°	254.4	247.8	233.5	228.0	222.5
70°	221.4	214.7	203.7	190.5	183.9
72.5°	190.5	182.8	172.9	153.1	146.5
75°	157.5	149.8	138.8	120.0	116.7
77.5°	125.5	118.9	103.5	99.1	101.3
80°	93.6	91.4	80.4	84.8	88.1
82.5°	62.8	61.7	63.9	66.1	66.1
85°	36.3	37.4	41.8	40.7	39.6
87.5°	15.4	18.7	17.6	17.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)