

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: P238731

Luminaire Tested: **14ENA-LD2-33-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238731
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-L940-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2578.5 lumens
Efficiency: N/A
Efficacy: 91.8 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

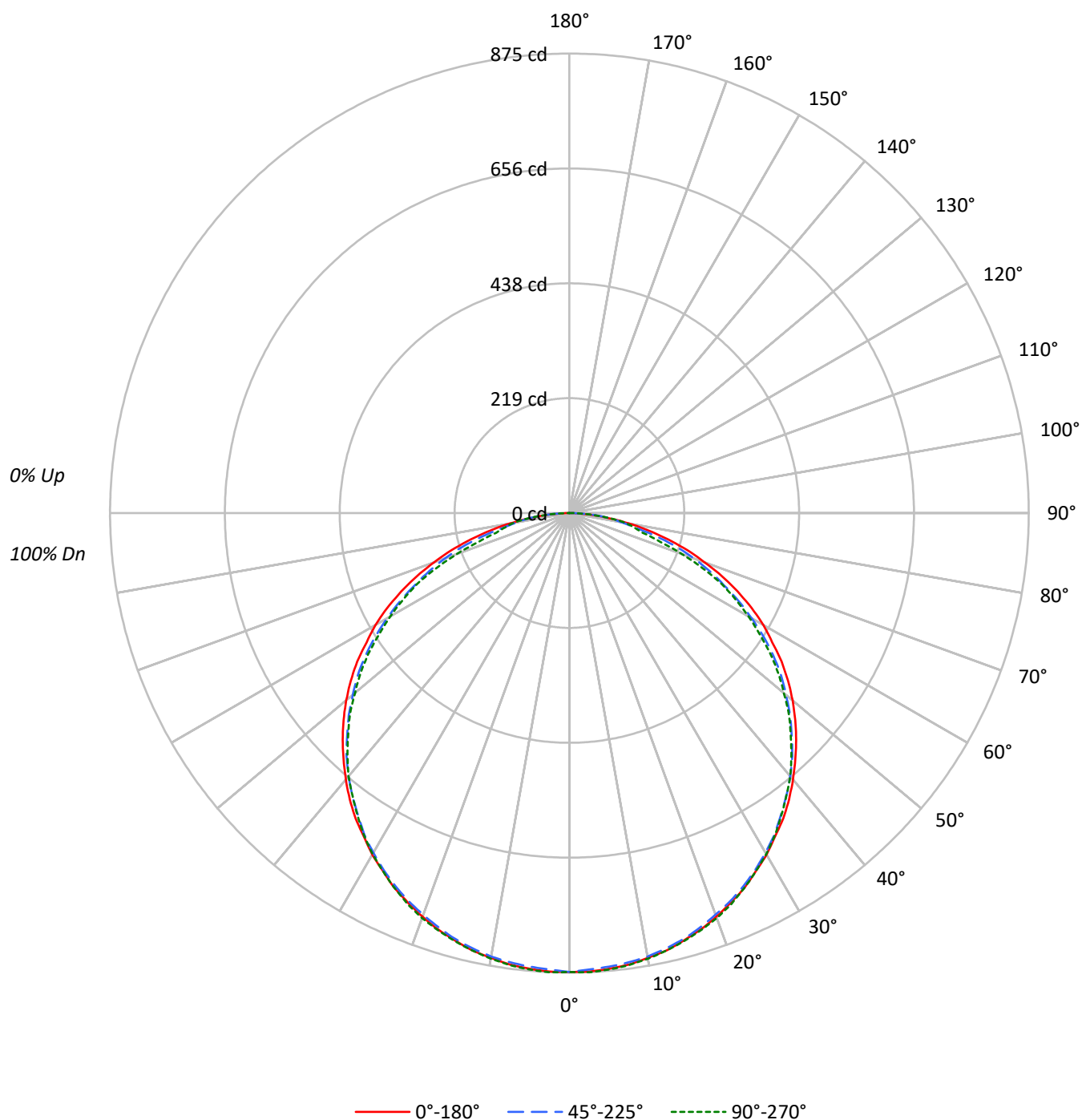
Input Watts (W): 28.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3681	3681	3681
5°	3683	3666	3689
10°	3679	3667	3685
15°	3674	3662	3680
20°	3667	3648	3679
25°	3662	3643	3662
30°	3654	3634	3647
35°	3652	3610	3617
40°	3643	3598	3598
45°	3638	3565	3549
50°	3636	3529	3493
55°	3624	3484	3434
60°	3594	3376	3319
65°	3519	3234	3193
70°	3374	3106	2804
75°	3173	2796	2352
80°	2811	2413	2646
85°	2175	2503	2373



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	3.2
10°-20°	237.7	9.2
20°-30°	362.3	14.0
30°-40°	441.1	17.1
40°-50°	463.8	18.0
50°-60°	425.8	16.5
60°-70°	327.1	12.7
70°-80°	182.6	7.1
80°-90°	55.4	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°	682.7	26.5
0°-40°	1123.8	43.6
0°-60°	2013.4	78.1
0°-90°	2578.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2578.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	871	871	867	871	872	83
15°	842	842	840	842	844	238
25°	788	785	784	787	788	363
35°	710	708	702	704	704	444
45°	611	607	598	596	596	471
55°	494	489	474	466	468	440
65°	353	344	324	320	320	349
75°	195	185	172	149	144	206
85°	45	46	52	50	49	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	873.9	873.9	873.9	873.9	873.9
2.5°	873.9	873.9	869.8	873.9	875.2
5°	871.1	871.1	867.1	871.1	872.5
7.5°	867.1	867.1	863.0	865.7	868.4
10°	860.2	860.2	857.5	860.2	861.6
12.5°	853.4	852.1	849.3	852.1	853.4
15°	842.5	842.5	839.8	842.5	843.9
17.5°	831.6	830.3	827.5	831.6	833.0
20°	818.0	816.6	813.9	818.0	820.7
22.5°	803.0	801.6	800.3	804.3	805.7
25°	788.0	785.3	783.9	786.6	788.0
27.5°	768.9	767.5	766.2	767.5	768.9
30°	751.2	748.5	747.1	747.1	749.8
32.5°	729.4	728.0	726.6	728.0	728.0
35°	710.3	707.6	702.1	703.5	703.5
37.5°	687.1	683.0	678.9	678.9	678.9
40°	662.6	659.8	654.4	653.0	654.4
42.5°	636.7	633.9	628.5	624.4	625.8
45°	610.8	606.7	598.5	595.8	595.8
47.5°	583.5	579.4	569.9	565.8	567.1
50°	554.9	549.4	538.5	533.1	533.1
52.5°	524.9	519.4	508.5	501.7	501.7
55°	493.5	489.4	474.4	466.2	467.6
57.5°	458.1	454.0	439.0	429.4	429.4
60°	426.7	418.5	400.8	394.0	394.0
62.5°	391.3	381.7	364.0	355.8	357.2
65°	353.1	343.6	324.5	320.4	320.4
67.5°	314.9	306.7	289.0	282.2	275.4
70°	274.0	265.8	252.2	235.9	227.7
72.5°	235.9	226.3	214.0	189.5	181.3
75°	195.0	185.4	171.8	148.6	144.5
77.5°	155.4	147.2	128.2	122.7	125.4
80°	115.9	113.2	99.5	105.0	109.1
82.5°	77.7	76.3	79.1	81.8	81.8
85°	45.0	46.4	51.8	50.4	49.1
87.5°	19.1	23.2	21.8	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)