

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: P238661

Luminaire Tested: **14ENA-LD2-28-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238661
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-L830-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2346.1 lumens
Efficiency: N/A
Efficacy: 99.4 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

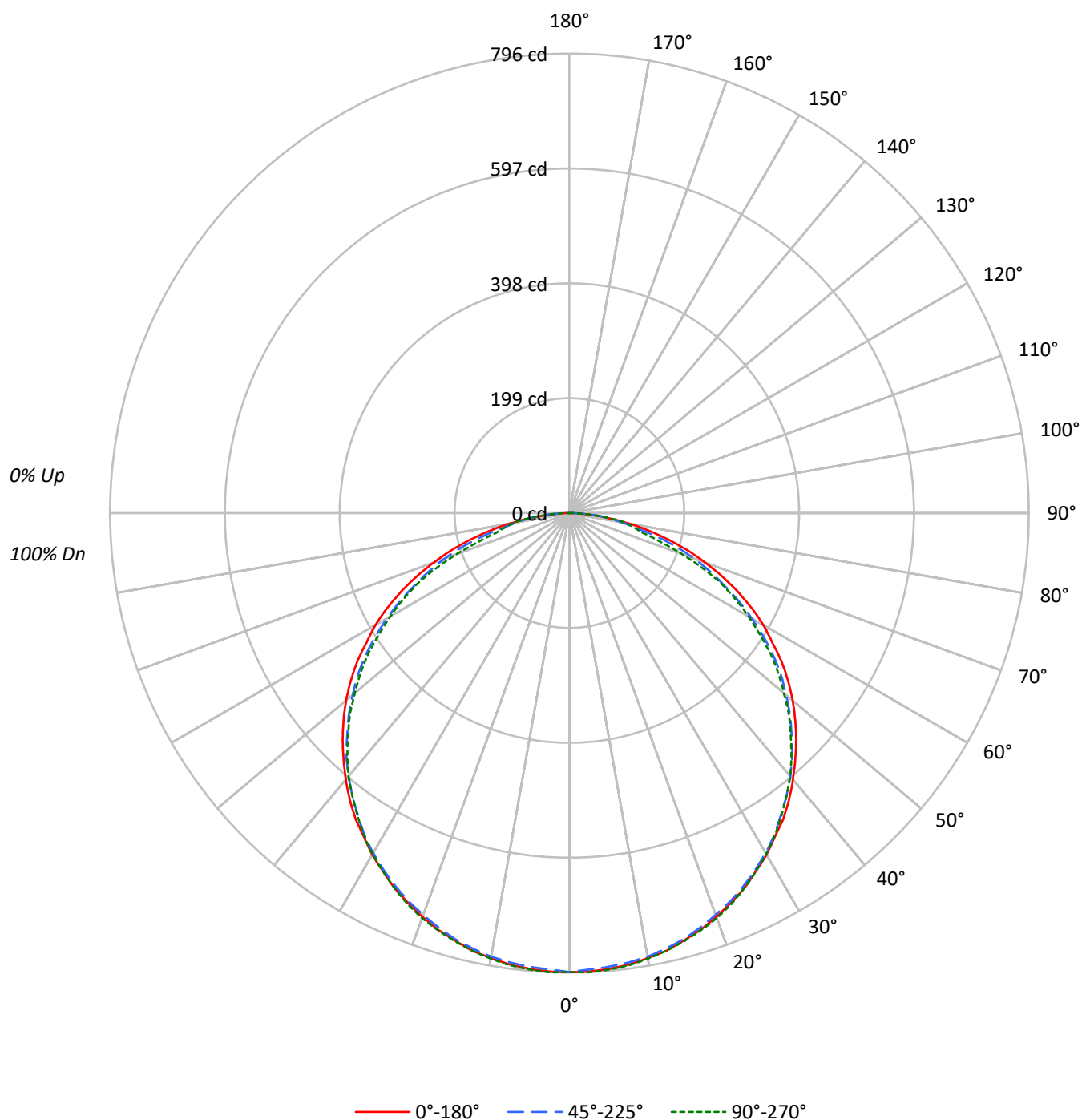
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		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°	3349	3349	3349
5°	3351	3336	3357
10°	3348	3337	3353
15°	3343	3332	3348
20°	3336	3319	3347
25°	3332	3315	3332
30°	3324	3306	3318
35°	3323	3285	3291
40°	3314	3274	3274
45°	3310	3243	3229
50°	3308	3211	3178
55°	3297	3170	3125
60°	3271	3072	3020
65°	3202	2942	2905
70°	3070	2826	2552
75°	2887	2544	2140
80°	2557	2198	2406
85°	1977	2276	2160



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	3.2
10°-20°	216.3	9.2
20°-30°	329.6	14.0
30°-40°	401.4	17.1
40°-50°	422.0	18.0
50°-60°	387.4	16.5
60°-70°	297.6	12.7
70°-80°	166.1	7.1
80°-90°	50.4	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°	621.1	26.5
0°-40°	1022.5	43.6
0°-60°	1832.0	78.1
0°-90°	2346.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2346.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	793	793	789	793	794	75
15°	767	767	764	767	768	217
25°	717	714	713	716	717	330
35°	646	644	639	640	640	404
45°	556	552	544	542	542	429
55°	449	445	432	424	426	400
65°	321	313	295	292	292	317
75°	177	169	156	135	132	187
85°	41	42	47	46	45	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.1	795.1	795.1	795.1	795.1
2.5°	795.1	795.1	791.4	795.1	796.4
5°	792.6	792.6	788.9	792.6	793.9
7.5°	788.9	788.9	785.2	787.7	790.1
10°	782.7	782.7	780.2	782.7	783.9
12.5°	776.5	775.3	772.8	775.3	776.5
15°	766.6	766.6	764.1	766.6	767.8
17.5°	756.7	755.4	752.9	756.7	757.9
20°	744.3	743.0	740.5	744.3	746.7
22.5°	730.6	729.4	728.1	731.8	733.1
25°	717.0	714.5	713.2	715.7	717.0
27.5°	699.6	698.4	697.1	698.4	699.6
30°	683.5	681.0	679.8	679.8	682.2
32.5°	663.6	662.4	661.1	662.4	662.4
35°	646.3	643.8	638.8	640.1	640.1
37.5°	625.2	621.5	617.7	617.7	617.7
40°	602.8	600.4	595.4	594.2	595.4
42.5°	579.3	576.8	571.8	568.1	569.4
45°	555.7	552.0	544.5	542.1	542.1
47.5°	530.9	527.2	518.5	514.8	516.0
50°	504.9	499.9	490.0	485.0	485.0
52.5°	477.6	472.6	462.7	456.5	456.5
55°	449.0	445.3	431.7	424.2	425.5
57.5°	416.8	413.1	399.4	390.7	390.7
60°	388.3	380.8	364.7	358.5	358.5
62.5°	356.0	347.3	331.2	323.7	325.0
65°	321.3	312.6	295.2	291.5	291.5
67.5°	286.5	279.1	263.0	256.8	250.6
70°	249.3	241.9	229.5	214.6	207.2
72.5°	214.6	205.9	194.7	172.4	165.0
75°	177.4	168.7	156.3	135.2	131.5
77.5°	141.4	134.0	116.6	111.6	114.1
80°	105.4	103.0	90.6	95.5	99.2
82.5°	70.7	69.5	71.9	74.4	74.4
85°	40.9	42.2	47.1	45.9	44.7
87.5°	17.4	21.1	19.8	19.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)