

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: P238662

Luminaire Tested: **14ENA-LD2-28-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238662
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-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: 2419.2 lumens
Efficiency: N/A
Efficacy: 102.5 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

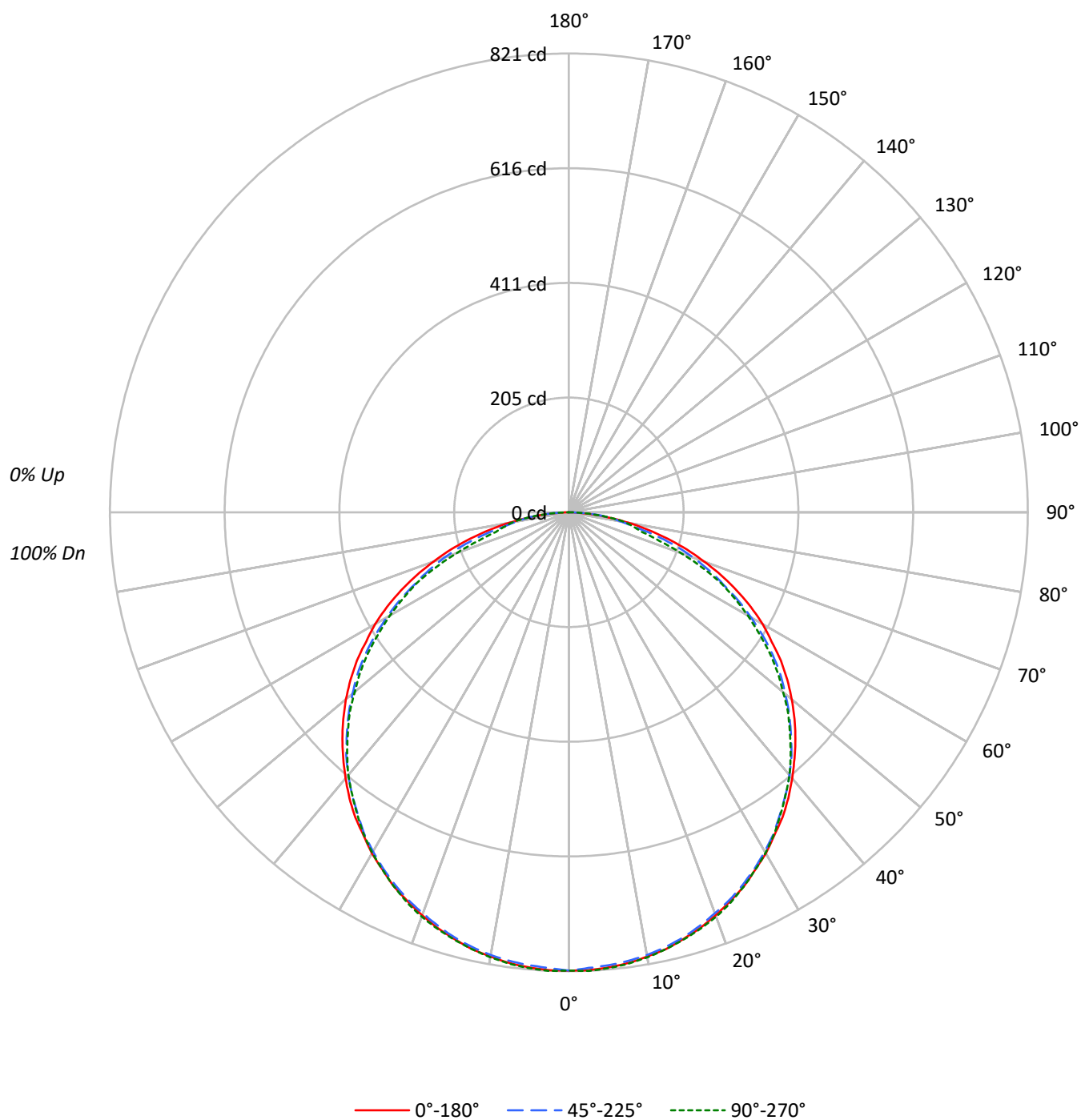
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	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°	3453	3453	3453
5°	3456	3440	3461
10°	3452	3441	3457
15°	3447	3436	3452
20°	3440	3423	3451
25°	3436	3418	3436
30°	3428	3409	3422
35°	3427	3387	3394
40°	3418	3375	3375
45°	3413	3345	3329
50°	3411	3310	3277
55°	3400	3269	3222
60°	3372	3167	3113
65°	3302	3034	2996
70°	3166	2914	2630
75°	2976	2623	2207
80°	2637	2265	2481
85°	2039	2349	2223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.2
10°-20°	223.0	9.2
20°-30°	339.9	14.0
30°-40°	413.9	17.1
40°-50°	435.2	18.0
50°-60°	399.5	16.5
60°-70°	306.9	12.7
70°-80°	171.3	7.1
80°-90°	52.0	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°	640.5	26.5
0°-40°	1054.4	43.6
0°-60°	1889.0	78.1
0°-90°	2419.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2419.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	817	817	814	817	819	78
15°	790	790	788	790	792	223
25°	739	737	736	738	739	341
35°	666	664	659	660	660	417
45°	573	569	562	559	559	442
55°	463	459	445	437	439	413
65°	331	322	304	301	301	327
75°	183	174	161	139	136	193
85°	42	44	49	47	46	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	819.9	819.9	819.9	819.9	819.9
2.5°	819.9	819.9	816.0	819.9	821.1
5°	817.3	817.3	813.5	817.3	818.6
7.5°	813.5	813.5	809.6	812.2	814.8
10°	807.1	807.1	804.5	807.1	808.4
12.5°	800.7	799.4	796.8	799.4	800.7
15°	790.5	790.5	787.9	790.5	791.7
17.5°	780.2	778.9	776.4	780.2	781.5
20°	767.4	766.1	763.6	767.4	770.0
22.5°	753.4	752.1	750.8	754.6	755.9
25°	739.3	736.7	735.5	738.0	739.3
27.5°	721.4	720.1	718.8	720.1	721.4
30°	704.8	702.2	700.9	700.9	703.5
32.5°	684.3	683.0	681.7	683.0	683.0
35°	666.4	663.8	658.7	660.0	660.0
37.5°	644.6	640.8	637.0	637.0	637.0
40°	621.6	619.1	613.9	612.7	613.9
42.5°	597.3	594.8	589.6	585.8	587.1
45°	573.0	569.2	561.5	558.9	558.9
47.5°	547.4	543.6	534.6	530.8	532.1
50°	520.6	515.5	505.2	500.1	500.1
52.5°	492.4	487.3	477.1	470.7	470.7
55°	463.0	459.2	445.1	437.4	438.7
57.5°	429.8	425.9	411.9	402.9	402.9
60°	400.3	392.7	376.0	369.6	369.6
62.5°	367.1	358.1	341.5	333.8	335.1
65°	331.3	322.3	304.4	300.6	300.6
67.5°	295.5	287.8	271.2	264.8	258.4
70°	257.1	249.4	236.6	221.3	213.6
72.5°	221.3	212.3	200.8	177.8	170.1
75°	182.9	174.0	161.2	139.4	135.6
77.5°	145.8	138.1	120.2	115.1	117.7
80°	108.7	106.2	93.4	98.5	102.3
82.5°	72.9	71.6	74.2	76.7	76.7
85°	42.2	43.5	48.6	47.3	46.0
87.5°	17.9	21.7	20.5	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)