

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: P238658

Luminaire Tested: **14ENA-LD2-25-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238658
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-LD2-25-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: 2156.1 lumens
Efficiency: N/A
Efficacy: 103.2 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

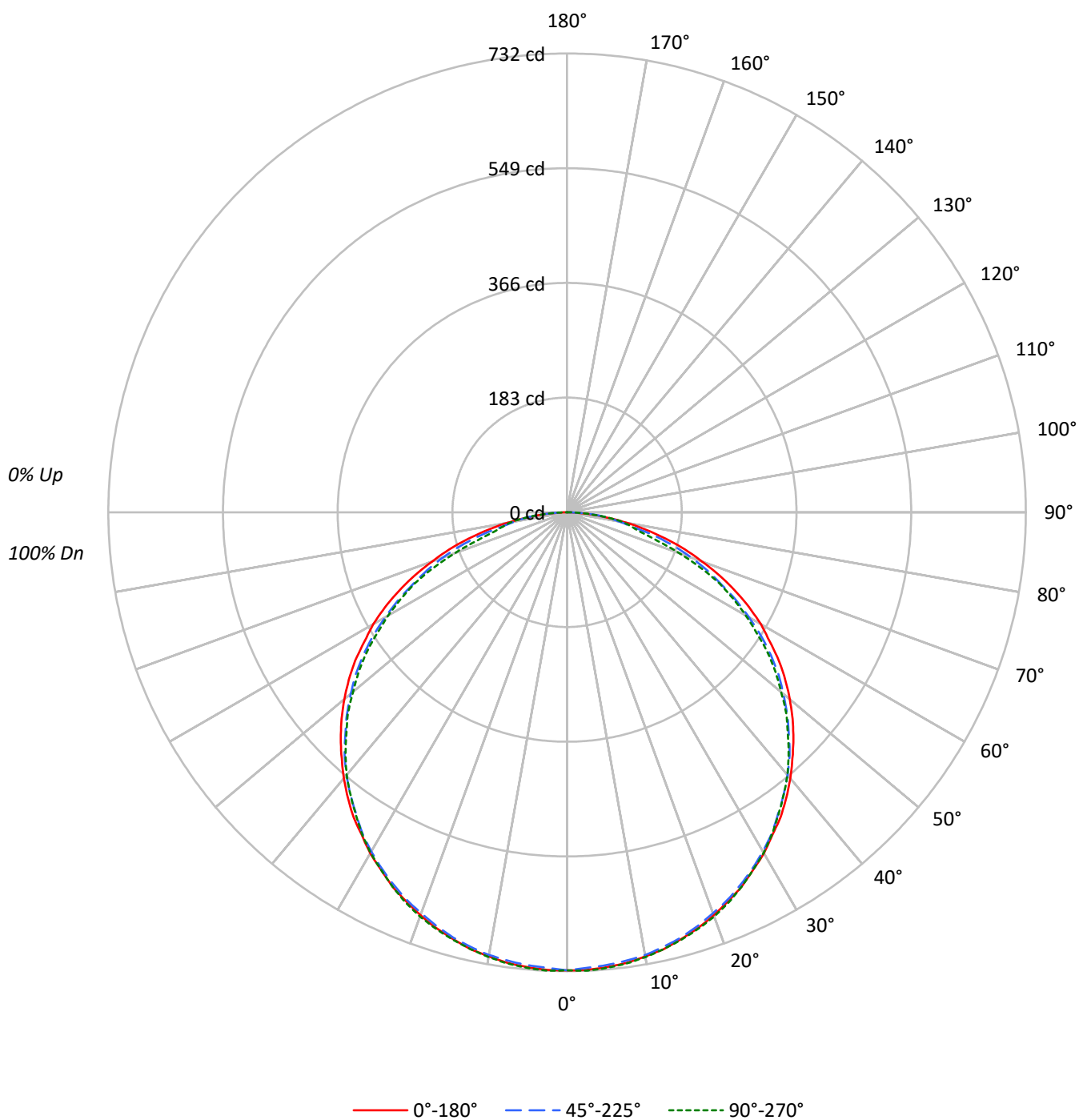
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	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	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°	3078	3078	3078
5°	3080	3065	3084
10°	3076	3067	3081
15°	3072	3062	3077
20°	3065	3050	3076
25°	3062	3046	3062
30°	3055	3038	3049
35°	3054	3019	3024
40°	3046	3009	3009
45°	3042	2981	2967
50°	3040	2951	2921
55°	3030	2913	2871
60°	3006	2823	2775
65°	2942	2704	2670
70°	2821	2597	2345
75°	2653	2337	1966
80°	2350	2018	2212
85°	1817	2093	1981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	3.2
10°-20°	198.7	9.2
20°-30°	302.9	14.0
30°-40°	368.9	17.1
40°-50°	387.8	18.0
50°-60°	356.0	16.5
60°-70°	273.5	12.7
70°-80°	152.7	7.1
80°-90°	46.3	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°	570.8	26.5
0°-40°	939.7	43.6
0°-60°	1683.5	78.1
0°-90°	2156.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2156.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	731	731	731	731	731	
5°	728	728	725	728	730	69
15°	704	704	702	704	706	199
25°	659	657	655	658	659	303
35°	594	592	587	588	588	371
45°	511	507	500	498	498	394
55°	413	409	397	390	391	368
65°	295	287	271	268	268	292
75°	163	155	144	124	121	172
85°	38	39	43	42	41	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	730.7	730.7	730.7	730.7	730.7
2.5°	730.7	730.7	727.3	730.7	731.8
5°	728.4	728.4	725.0	728.4	729.5
7.5°	725.0	725.0	721.6	723.8	726.1
10°	719.3	719.3	717.0	719.3	720.4
12.5°	713.6	712.4	710.2	712.4	713.6
15°	704.5	704.5	702.2	704.5	705.6
17.5°	695.3	694.2	691.9	695.3	696.5
20°	683.9	682.8	680.5	683.9	686.2
22.5°	671.4	670.3	669.1	672.5	673.7
25°	658.9	656.6	655.4	657.7	658.9
27.5°	642.9	641.8	640.6	641.8	642.9
30°	628.1	625.8	624.7	624.7	627.0
32.5°	609.9	608.7	607.6	608.7	608.7
35°	593.9	591.6	587.1	588.2	588.2
37.5°	574.5	571.1	567.7	567.7	567.7
40°	554.0	551.7	547.2	546.0	547.2
42.5°	532.3	530.1	525.5	522.1	523.2
45°	510.7	507.3	500.4	498.1	498.1
47.5°	487.9	484.5	476.5	473.1	474.2
50°	463.9	459.4	450.3	445.7	445.7
52.5°	438.9	434.3	425.2	419.5	419.5
55°	412.6	409.2	396.7	389.9	391.0
57.5°	383.0	379.6	367.1	359.1	359.1
60°	356.8	350.0	335.1	329.4	329.4
62.5°	327.2	319.2	304.4	297.5	298.7
65°	295.2	287.3	271.3	267.9	267.9
67.5°	263.3	256.5	241.7	236.0	230.3
70°	229.1	222.3	210.9	197.2	190.4
72.5°	197.2	189.2	179.0	158.4	151.6
75°	163.0	155.0	143.6	124.3	120.8
77.5°	130.0	123.1	107.2	102.6	104.9
80°	96.9	94.6	83.2	87.8	91.2
82.5°	65.0	63.8	66.1	68.4	68.4
85°	37.6	38.8	43.3	42.2	41.0
87.5°	16.0	19.4	18.2	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)