

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: P238722

Luminaire Tested: **14ENA-LD2-25-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238722
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-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: 1856.3 lumens
Efficiency: N/A
Efficacy: 88.8 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

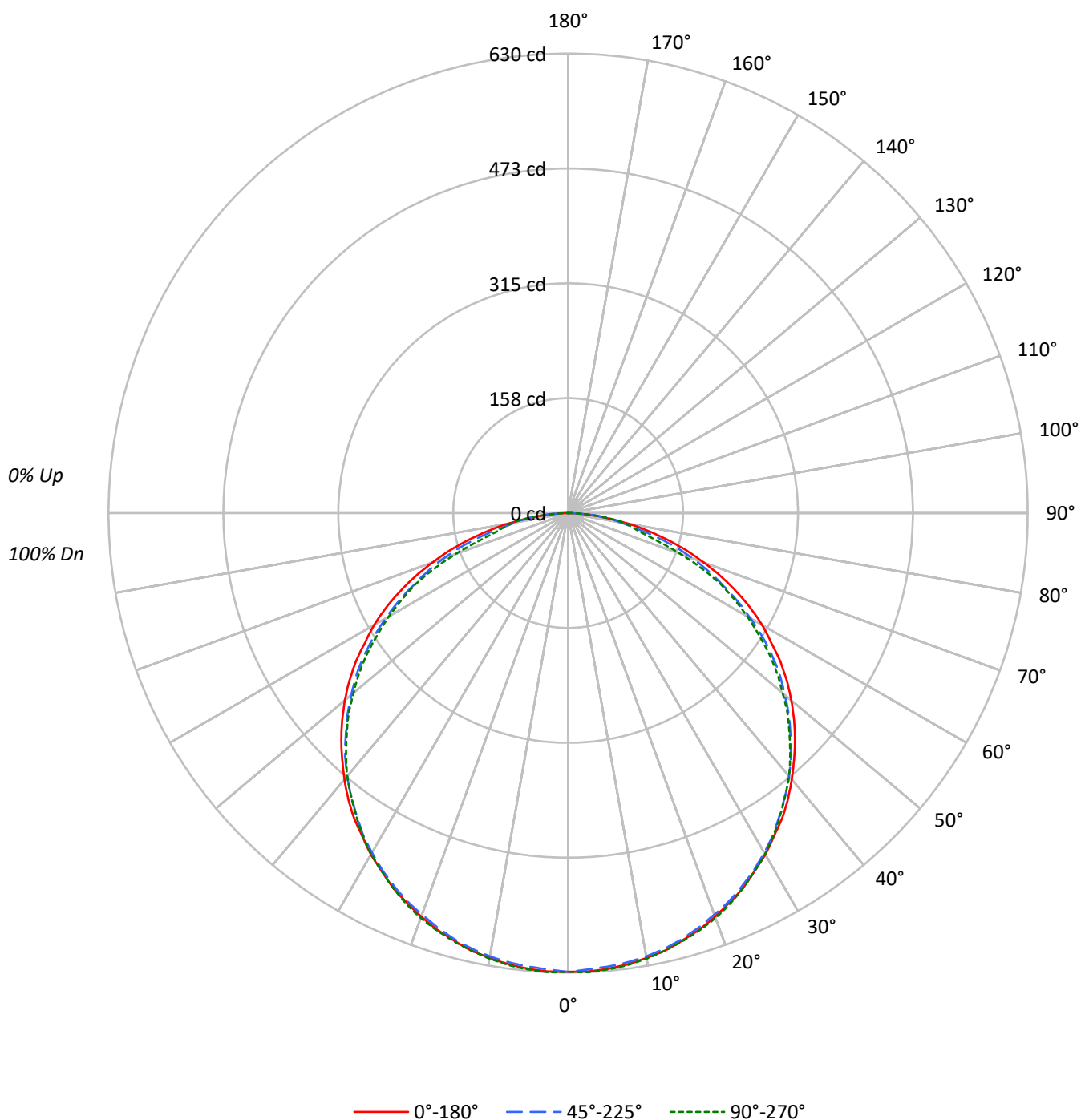
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
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°	2650	2650	2650
5°	2652	2639	2656
10°	2649	2640	2653
15°	2645	2636	2649
20°	2640	2626	2648
25°	2636	2623	2636
30°	2630	2616	2625
35°	2629	2599	2604
40°	2623	2590	2590
45°	2619	2567	2555
50°	2618	2540	2515
55°	2609	2508	2472
60°	2588	2431	2389
65°	2533	2328	2298
70°	2430	2236	2018
75°	2283	2013	1692
80°	2023	1737	1904
85°	1566	1803	1706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	3.2
10°-20°	171.1	9.2
20°-30°	260.8	14.0
30°-40°	317.6	17.1
40°-50°	333.9	18.0
50°-60°	306.5	16.5
60°-70°	235.5	12.7
70°-80°	131.4	7.1
80°-90°	39.9	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°	491.5	26.5
0°-40°	809.1	43.6
0°-60°	1449.5	78.1
0°-90°	1856.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1856.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	627	627	624	627	628	60
15°	606	606	605	606	608	171
25°	567	565	564	566	567	261
35°	511	509	506	506	506	320
45°	440	437	431	429	429	339
55°	355	352	342	336	337	317
65°	254	247	234	231	231	251
75°	140	134	124	107	104	148
85°	32	33	37	36	35	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	629.1	629.1	629.1	629.1	629.1
2.5°	629.1	629.1	626.2	629.1	630.1
5°	627.2	627.2	624.2	627.2	628.1
7.5°	624.2	624.2	621.3	623.2	625.2
10°	619.3	619.3	617.3	619.3	620.3
12.5°	614.4	613.4	611.5	613.4	614.4
15°	606.5	606.5	604.6	606.5	607.5
17.5°	598.7	597.7	595.7	598.7	599.7
20°	588.9	587.9	585.9	588.9	590.8
22.5°	578.1	577.1	576.1	579.1	580.0
25°	567.3	565.3	564.3	566.3	567.3
27.5°	553.5	552.6	551.6	552.6	553.5
30°	540.8	538.8	537.8	537.8	539.8
32.5°	525.1	524.1	523.1	524.1	524.1
35°	511.3	509.4	505.5	506.4	506.4
37.5°	494.7	491.7	488.8	488.8	488.8
40°	477.0	475.0	471.1	470.1	471.1
42.5°	458.3	456.4	452.5	449.5	450.5
45°	439.7	436.8	430.9	428.9	428.9
47.5°	420.1	417.1	410.3	407.3	408.3
50°	399.5	395.5	387.7	383.8	383.8
52.5°	377.9	373.9	366.1	361.2	361.2
55°	355.3	352.3	341.5	335.7	336.6
57.5°	329.8	326.8	316.0	309.2	309.2
60°	307.2	301.3	288.6	283.6	283.6
62.5°	281.7	274.8	262.1	256.2	257.1
65°	254.2	247.3	233.6	230.6	230.6
67.5°	226.7	220.8	208.1	203.2	198.3
70°	197.3	191.4	181.6	169.8	163.9
72.5°	169.8	162.9	154.1	136.4	130.5
75°	140.3	133.5	123.7	107.0	104.0
77.5°	111.9	106.0	92.3	88.3	90.3
80°	83.4	81.5	71.6	75.6	78.5
82.5°	55.9	55.0	56.9	58.9	58.9
85°	32.4	33.4	37.3	36.3	35.3
87.5°	13.7	16.7	15.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)