

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: P238998

Luminaire Tested: **24ENA-LD2-30-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-234-34)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ENA-LD2-30-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 2X4 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: 2616.4 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.67' x L: 3.83' x H: 0')
CIE Type: Direct

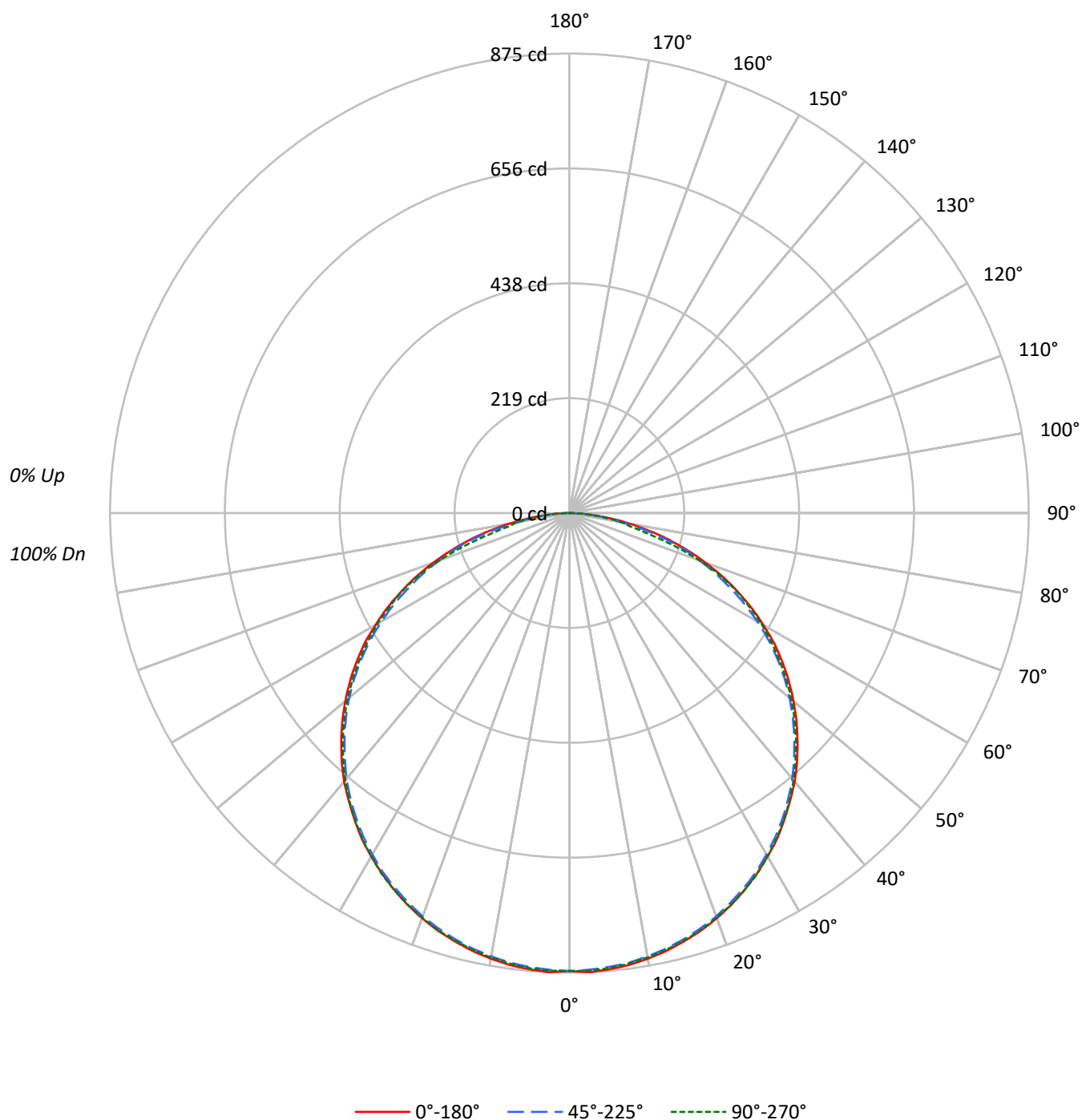
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238998

CATALOG NUMBER: 24ENA-LD2-30-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238998

CATALOG NUMBER: 24ENA-LD2-30-UNV-L935-CD1-U

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	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58		
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32		
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29		
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1469	1469	1469
5°	1475	1467	1471
10°	1474	1466	1470
15°	1472	1466	1469
20°	1472	1465	1470
25°	1470	1463	1470
30°	1469	1460	1469
35°	1467	1457	1465
40°	1468	1452	1461
45°	1464	1443	1454
50°	1460	1434	1447
55°	1455	1420	1434
60°	1437	1393	1422
65°	1408	1349	1399
70°	1357	1300	1298
75°	1278	1221	1032
80°	1124	955	981
85°	887	835	771



TEST NUMBER: P238998

CATALOG NUMBER: 24ENA-LD2-30-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	3.2
10°-20°	237.5	9.1
20°-30°	363.5	13.9
30°-40°	444.3	17.0
40°-50°	469.5	17.9
50°-60°	435.0	16.6
60°-70°	340.8	13.0
70°-80°	192.7	7.4
80°-90°	50.7	1.9
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°	683.6	26.1
0°-40°	1127.8	43.1
0°-60°	2032.3	77.7
0°-90°	2616.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2616.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	872	869	868	867	870	83
15°	844	841	840	840	842	238
25°	791	788	787	787	791	365
35°	713	710	708	708	712	447
45°	614	610	606	606	610	474
55°	495	490	483	484	488	442
65°	353	347	338	343	351	349
75°	196	191	188	167	158	206
85°	46	43	43	41	40	54
90°	0	0	0	0	0	



TEST NUMBER: P238998

CATALOG NUMBER: 24ENA-LD2-30-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	872.0	872.0	872.0	872.0	872.0
2.5°	875.2	871.4	870.3	869.2	872.0
5°	872.0	869.2	867.6	867.0	869.8
7.5°	868.1	864.9	863.8	862.7	865.4
10°	861.6	858.3	857.2	856.7	859.4
12.5°	853.9	850.1	849.5	849.0	851.7
15°	844.1	840.8	840.3	839.7	842.4
17.5°	833.7	830.4	829.3	828.8	832.6
20°	821.1	817.8	817.3	816.7	820.0
22.5°	806.9	803.6	802.5	803.1	806.4
25°	791.0	787.8	787.2	787.2	791.0
27.5°	773.6	770.3	770.3	770.3	774.6
30°	755.0	752.2	750.6	751.1	755.0
32.5°	735.8	731.5	730.4	730.9	734.7
35°	713.4	710.1	708.5	708.5	712.3
37.5°	690.5	687.2	685.0	685.0	688.8
40°	667.5	662.6	660.4	659.3	664.2
42.5°	641.8	638.0	633.1	633.1	637.4
45°	614.5	610.1	605.7	605.7	610.1
47.5°	586.6	582.2	577.3	577.3	581.7
50°	557.1	552.7	547.2	547.2	552.1
52.5°	527.0	522.1	516.1	515.5	520.4
55°	495.3	489.8	483.3	484.4	488.2
57.5°	463.0	455.9	449.4	449.4	455.4
60°	426.4	420.4	413.3	414.4	422.0
62.5°	391.4	383.8	376.7	379.4	386.0
65°	353.2	346.6	338.4	342.8	351.0
67.5°	315.4	308.3	301.8	307.2	311.1
70°	275.5	269.0	264.0	264.0	263.5
72.5°	235.6	229.6	228.5	218.1	211.6
75°	196.3	190.8	187.5	167.3	158.5
77.5°	155.3	153.6	143.2	121.9	119.2
80°	115.9	117.0	98.4	98.9	101.1
82.5°	79.8	78.2	73.8	70.5	69.4
85°	45.9	43.2	43.2	41.0	39.9
87.5°	15.3	16.9	16.9	16.9	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)