

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: P239001

Luminaire Tested: **24ENA-LD2-34-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239001
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-LD2-34-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2950.1 lumens
Efficiency: N/A
Efficacy: 102.8 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

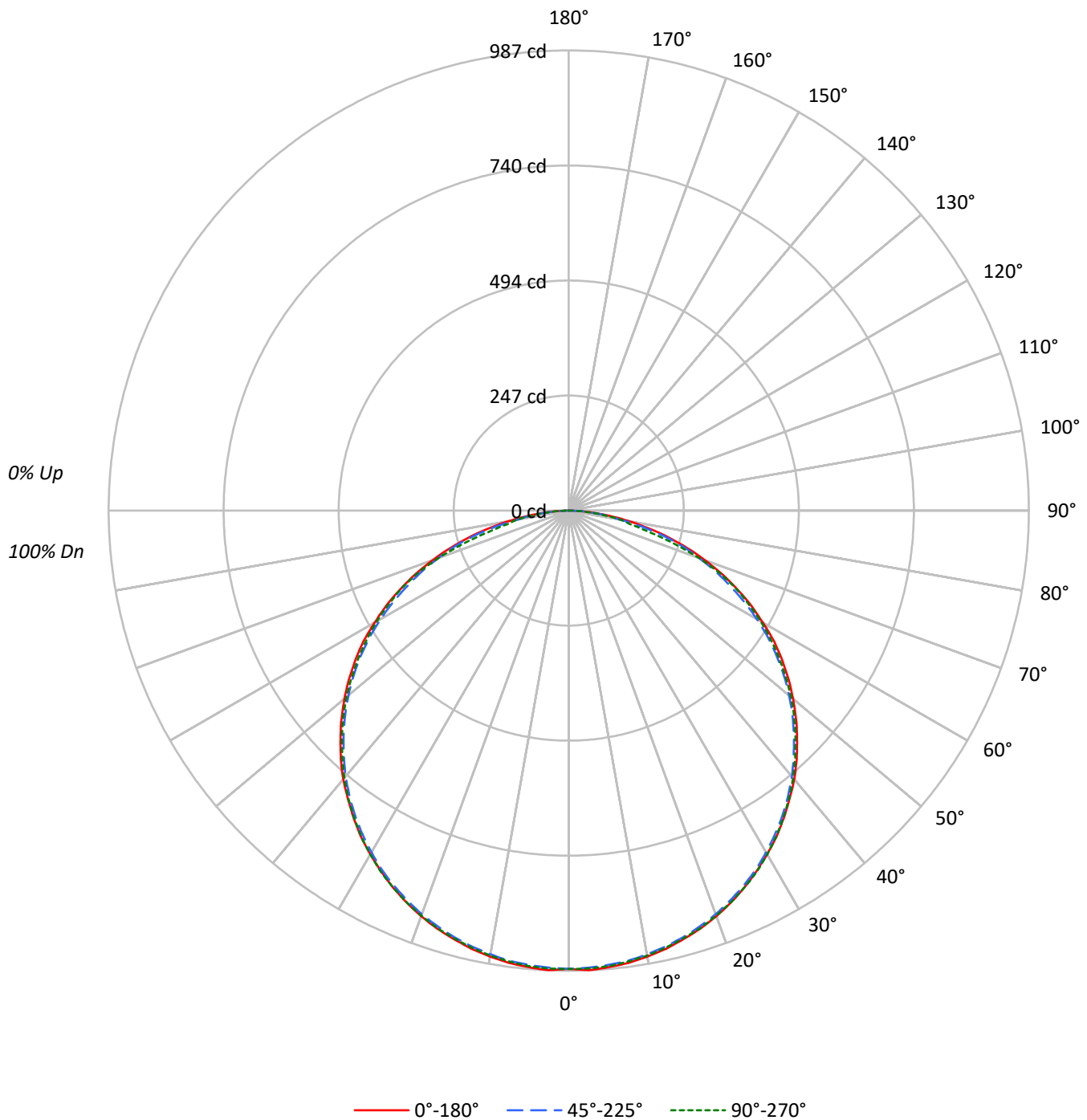
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1656	1656	1656
5°	1663	1654	1659
10°	1662	1653	1658
15°	1660	1652	1657
20°	1660	1652	1658
25°	1658	1650	1658
30°	1656	1646	1656
35°	1654	1643	1652
40°	1655	1638	1647
45°	1651	1627	1639
50°	1646	1617	1632
55°	1640	1601	1617
60°	1620	1570	1604
65°	1587	1521	1577
70°	1531	1466	1464
75°	1441	1376	1164
80°	1268	1077	1106
85°	1001	941	870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	3.2
10°-20°	267.8	9.1
20°-30°	409.8	13.9
30°-40°	500.9	17.0
40°-50°	529.3	17.9
50°-60°	490.4	16.6
60°-70°	384.2	13.0
70°-80°	217.2	7.4
80°-90°	57.2	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°	770.8	26.1
0°-40°	1271.7	43.1
0°-60°	2291.4	77.7
0°-90°	2950.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2950.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	983	980	978	978	981	93
15°	952	948	947	947	950	269
25°	892	888	888	888	892	411
35°	804	801	799	799	803	504
45°	693	688	683	683	688	535
55°	558	552	545	546	550	499
65°	398	391	382	386	396	394
75°	221	215	211	189	179	233
85°	52	49	49	46	45	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.1	983.1	983.1	983.1	983.1
2.5°	986.8	982.5	981.3	980.1	983.1
5°	983.1	980.1	978.2	977.6	980.7
7.5°	978.8	975.1	973.9	972.7	975.7
10°	971.4	967.7	966.5	965.9	969.0
12.5°	962.8	958.5	957.9	957.3	960.3
15°	951.7	948.0	947.4	946.8	949.9
17.5°	940.0	936.3	935.1	934.4	938.8
20°	925.8	922.1	921.5	920.9	924.6
22.5°	909.8	906.1	904.9	905.5	909.2
25°	891.9	888.2	887.6	887.6	891.9
27.5°	872.2	868.5	868.5	868.5	873.4
30°	851.2	848.2	846.3	846.9	851.2
32.5°	829.7	824.7	823.5	824.1	828.4
35°	804.4	800.7	798.8	798.8	803.2
37.5°	778.5	774.8	772.3	772.3	776.7
40°	752.6	747.1	744.6	743.4	748.9
42.5°	723.6	719.3	713.8	713.8	718.7
45°	692.8	687.9	683.0	683.0	687.9
47.5°	661.4	656.5	650.9	650.9	655.8
50°	628.1	623.2	617.0	617.0	622.6
52.5°	594.2	588.7	581.9	581.3	586.8
55°	558.4	552.3	544.9	546.1	550.4
57.5°	522.1	514.1	506.7	506.7	513.5
60°	480.8	474.0	466.0	467.2	475.9
62.5°	441.3	432.7	424.7	427.8	435.2
65°	398.2	390.8	381.5	386.5	395.7
67.5°	355.7	347.6	340.2	346.4	350.7
70°	310.7	303.3	297.7	297.7	297.1
72.5°	265.7	258.9	257.7	245.9	238.5
75°	221.3	215.1	211.4	188.6	178.8
77.5°	175.1	173.2	161.5	137.5	134.4
80°	130.7	131.9	111.0	111.6	114.0
82.5°	90.0	88.1	83.2	79.5	78.3
85°	51.8	48.7	48.7	46.2	45.0
87.5°	17.3	19.1	19.1	19.1	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)