

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: P238934

Luminaire Tested: **24ENA-LD2-49-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238934
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-LD2-49-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4971.0 lumens
Efficiency: N/A
Efficacy: 117.8 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

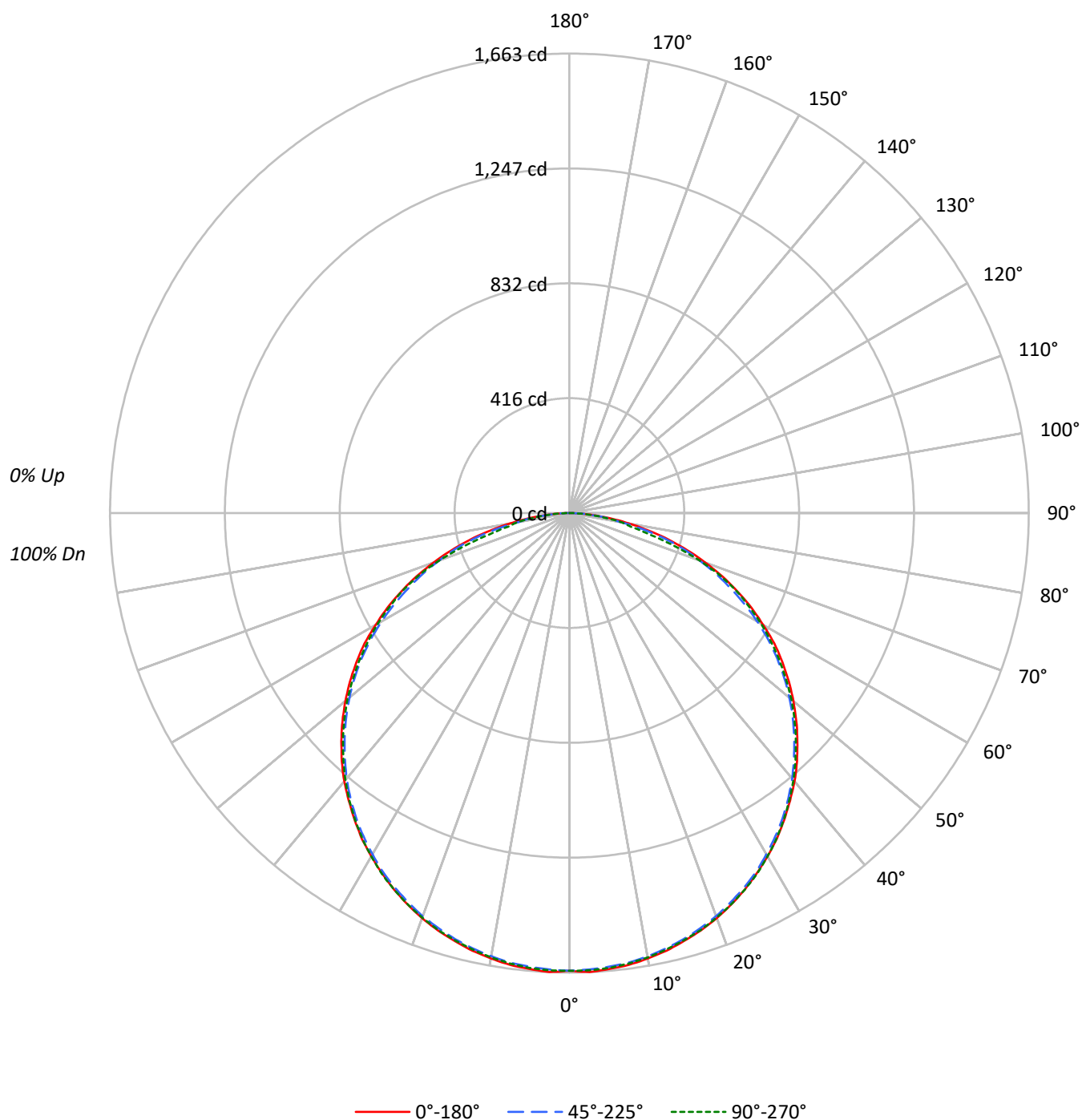
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	99	95	106	101	97	94		97	94	91			93	90	88			90
2	98	90	83	77	96	88	82	76		84	79	74			81	77	73			78
3	90	79	70	64	87	77	69	63		74	67	62			71	66	61			69
4	82	70	61	54	79	68	60	53		66	58	53			63	57	52			61
5	75	62	53	46	73	61	52	46		59	51	45			57	50	45			55
6	69	56	47	40	67	55	46	40		53	45	40			51	44	39			50
7	64	50	42	35	62	50	41	35		48	40	35			47	40	35			45
8	60	46	37	31	58	45	37	31		44	36	31			43	36	31			41
9	56	42	34	28	54	42	34	28		40	33	28			39	33	28			38
10	52	39	31	26	51	38	31	25		37	30	25			36	30	25			35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2791	2791	2791
5°	2802	2788	2795
10°	2800	2786	2793
15°	2797	2784	2792
20°	2797	2784	2793
25°	2794	2780	2794
30°	2791	2774	2791
35°	2788	2769	2784
40°	2789	2760	2776
45°	2782	2742	2762
50°	2774	2725	2749
55°	2764	2697	2724
60°	2730	2646	2702
65°	2675	2563	2658
70°	2579	2471	2466
75°	2427	2319	1961
80°	2136	1814	1864
85°	1686	1587	1465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	3.2
10°-20°	451.3	9.1
20°-30°	690.6	13.9
30°-40°	844.1	17.0
40°-50°	891.9	17.9
50°-60°	826.4	16.6
60°-70°	647.4	13.0
70°-80°	366.0	7.4
80°-90°	96.4	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°	1298.8	26.1
0°-40°	2142.8	43.1
0°-60°	3861.2	77.7
0°-90°	4971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1657	1657	1657	1657	1657	
5°	1657	1651	1648	1647	1652	158
15°	1604	1597	1596	1595	1601	453
25°	1503	1497	1496	1496	1503	693
35°	1355	1349	1346	1346	1353	849
45°	1167	1159	1151	1151	1159	901
55°	941	931	918	920	928	840
65°	671	658	643	651	667	663
75°	373	362	356	318	301	392
85°	87	82	82	78	76	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1656.6	1656.6	1656.6	1656.6	1656.6
2.5°	1662.9	1655.6	1653.5	1651.4	1656.6
5°	1656.6	1651.4	1648.3	1647.3	1652.5
7.5°	1649.4	1643.1	1641.1	1639.0	1644.2
10°	1636.9	1630.7	1628.6	1627.6	1632.8
12.5°	1622.4	1615.1	1614.1	1613.0	1618.2
15°	1603.7	1597.4	1596.4	1595.4	1600.6
17.5°	1583.9	1577.7	1575.6	1574.6	1581.9
20°	1560.0	1553.8	1552.8	1551.7	1558.0
22.5°	1533.0	1526.8	1524.7	1525.8	1532.0
25°	1502.9	1496.7	1495.7	1495.7	1502.9
27.5°	1469.7	1463.5	1463.5	1463.5	1471.8
30°	1434.4	1429.2	1426.1	1427.1	1434.4
32.5°	1398.0	1389.7	1387.6	1388.7	1395.9
35°	1355.4	1349.2	1346.1	1346.1	1353.4
37.5°	1311.8	1305.6	1301.4	1301.4	1308.7
40°	1268.2	1258.8	1254.7	1252.6	1262.0
42.5°	1219.4	1212.1	1202.8	1202.8	1211.1
45°	1167.4	1159.1	1150.8	1150.8	1159.1
47.5°	1114.5	1106.2	1096.8	1096.8	1105.1
50°	1058.4	1050.1	1039.7	1039.7	1049.0
52.5°	1001.3	991.9	980.5	979.4	988.8
55°	941.0	930.6	918.2	920.2	927.5
57.5°	879.7	866.2	853.8	853.8	865.2
60°	810.1	798.7	785.2	787.3	801.8
62.5°	743.7	729.1	715.6	720.8	733.3
65°	671.0	658.5	642.9	651.2	666.8
67.5°	599.3	585.8	573.3	583.7	591.0
70°	523.5	511.0	501.7	501.7	500.6
72.5°	447.7	436.2	434.2	414.4	402.0
75°	372.9	362.5	356.3	317.8	301.2
77.5°	295.0	291.9	272.1	231.6	226.4
80°	220.2	222.3	187.0	188.0	192.1
82.5°	151.6	148.5	140.2	134.0	131.9
85°	87.2	82.1	82.1	77.9	75.8
87.5°	29.1	32.2	32.2	32.2	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)