

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: P238778

Luminaire Tested: **14EN-LD2-51-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238778
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: 14EN-LD2-51-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5117.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

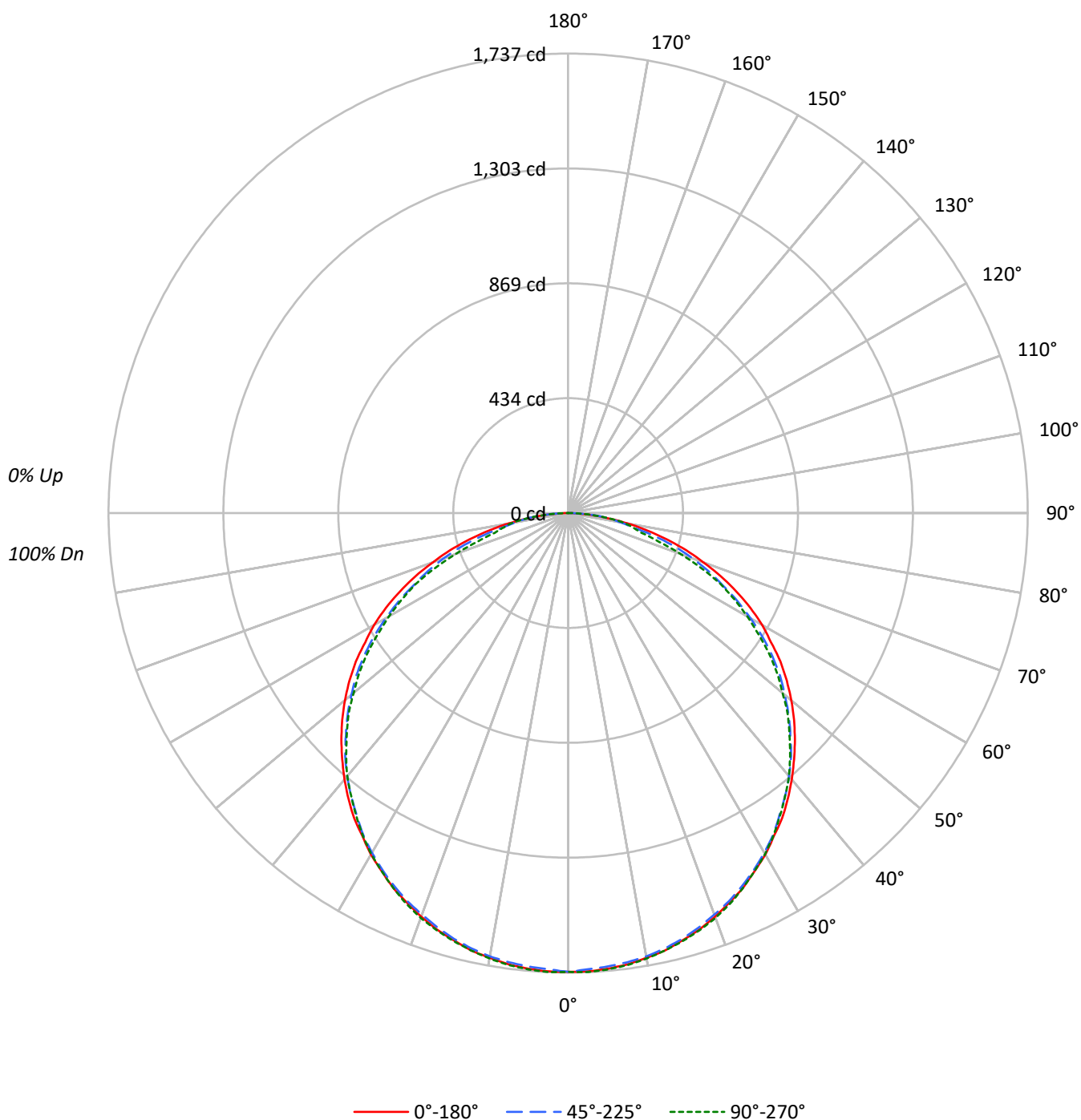
Input Watts (W): 44.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	99	90	83	77	96	88	82	76		85	79	75			81	77	73			78
3	90	79	71	64	87	77	70	63		74	68	62			72	66	61			69
4	82	70	61	54	80	68	60	54		66	59	53			64	57	52			61
5	75	62	53	46	73	61	53	46		59	51	46			57	50	45			55
6	69	56	47	40	68	55	46	40		53	46	40			51	45	39			50
7	64	51	42	36	63	50	41	35		48	41	35			47	40	35			45
8	60	46	38	32	58	45	37	32		44	37	31			43	36	31			42
9	56	42	34	28	54	42	34	28		41	33	28			40	33	28			38
10	52	39	31	26	51	39	31	26		38	30	26			37	30	25			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4870	4870	4870
5°	4873	4850	4881
10°	4867	4852	4875
15°	4860	4845	4868
20°	4850	4826	4867
25°	4845	4820	4845
30°	4833	4807	4825
35°	4832	4776	4785
40°	4819	4760	4760
45°	4813	4716	4695
50°	4810	4668	4621
55°	4795	4609	4543
60°	4756	4467	4391
65°	4656	4278	4224
70°	4465	4109	3709
75°	4198	3698	3112
80°	3719	3194	3499
85°	2877	3312	3138



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	3.2
10°-20°	471.6	9.2
20°-30°	718.9	14.0
30°-40°	875.4	17.1
40°-50°	920.5	18.0
50°-60°	844.9	16.5
60°-70°	649.1	12.7
70°-80°	362.3	7.1
80°-90°	110.0	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°	1354.7	26.5
0°-40°	2230.2	43.6
0°-60°	3995.6	78.1
0°-90°	5117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1729	1729	1721	1729	1732	164
15°	1672	1672	1666	1672	1675	472
25°	1564	1558	1556	1561	1564	720
35°	1410	1404	1393	1396	1396	881
45°	1212	1204	1188	1182	1182	935
55°	979	971	942	925	928	873
65°	701	682	644	636	636	692
75°	387	368	341	295	287	409
85°	89	92	103	100	97	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.2	1734.2	1734.2	1734.2	1734.2
2.5°	1734.2	1734.2	1726.1	1734.2	1736.9
5°	1728.8	1728.8	1720.6	1728.8	1731.5
7.5°	1720.6	1720.6	1712.5	1717.9	1723.4
10°	1707.1	1707.1	1701.7	1707.1	1709.8
12.5°	1693.6	1690.9	1685.5	1690.9	1693.6
15°	1671.9	1671.9	1666.5	1671.9	1674.7
17.5°	1650.3	1647.6	1642.2	1650.3	1653.0
20°	1623.2	1620.5	1615.1	1623.2	1628.7
22.5°	1593.5	1590.8	1588.1	1596.2	1598.9
25°	1563.7	1558.3	1555.6	1561.0	1563.7
27.5°	1525.9	1523.1	1520.4	1523.1	1525.9
30°	1490.7	1485.3	1482.6	1482.6	1488.0
32.5°	1447.4	1444.7	1442.0	1444.7	1444.7
35°	1409.5	1404.1	1393.3	1396.0	1396.0
37.5°	1363.5	1355.4	1347.3	1347.3	1347.3
40°	1314.8	1309.4	1298.6	1295.9	1298.6
42.5°	1263.4	1258.0	1247.2	1239.1	1241.8
45°	1212.0	1203.9	1187.7	1182.3	1182.3
47.5°	1157.9	1149.8	1130.9	1122.7	1125.5
50°	1101.1	1090.3	1068.6	1057.8	1057.8
52.5°	1041.6	1030.8	1009.1	995.6	995.6
55°	979.4	971.2	941.5	925.3	928.0
57.5°	909.0	900.9	871.1	852.2	852.2
60°	846.8	830.6	795.4	781.9	781.9
62.5°	776.5	757.5	722.3	706.1	708.8
65°	700.7	681.8	643.9	635.8	635.8
67.5°	625.0	608.7	573.5	560.0	546.5
70°	543.8	527.6	500.5	468.0	451.8
72.5°	468.0	449.1	424.8	376.1	359.8
75°	386.9	367.9	340.9	294.9	286.8
77.5°	308.4	292.2	254.3	243.5	248.9
80°	230.0	224.5	197.5	208.3	216.4
82.5°	154.2	151.5	156.9	162.3	162.3
85°	89.3	92.0	102.8	100.1	97.4
87.5°	37.9	46.0	43.3	43.3	43.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)