

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: P238772

Luminaire Tested: **14EN-LD2-43-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238772
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-LD2-43-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4811.8 lumens
Efficiency: N/A
Efficacy: 128.0 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

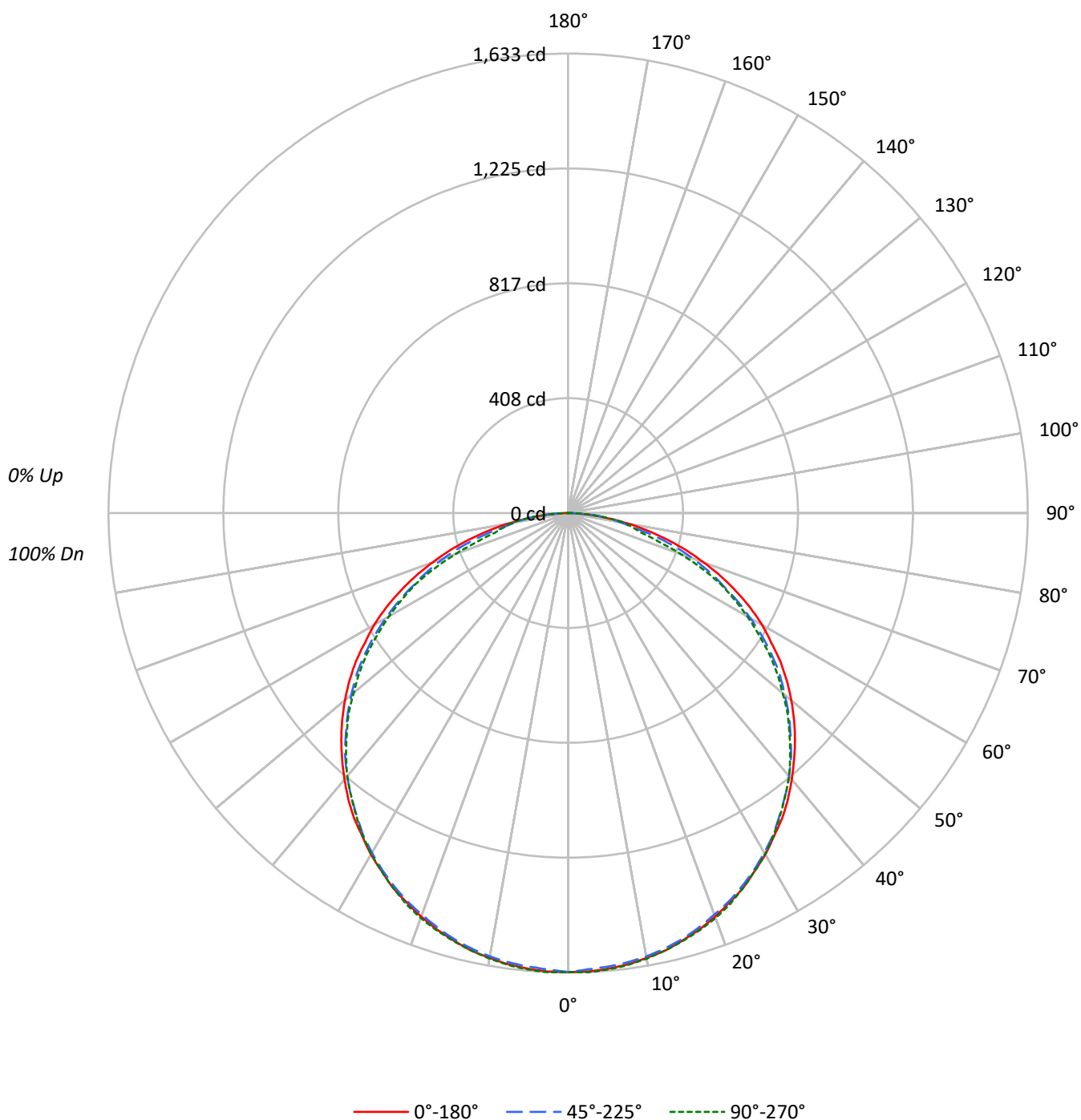
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4579	4579	4579
5°	4582	4561	4589
10°	4577	4563	4585
15°	4570	4556	4578
20°	4561	4538	4576
25°	4556	4532	4556
30°	4545	4521	4537
35°	4544	4491	4500
40°	4532	4476	4476
45°	4526	4435	4415
50°	4523	4390	4345
55°	4509	4334	4272
60°	4472	4201	4129
65°	4378	4023	3973
70°	4199	3864	3488
75°	3947	3478	2926
80°	3496	3003	3291
85°	2706	3115	2951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	3.2
10°-20°	443.5	9.2
20°-30°	676.0	14.0
30°-40°	823.2	17.1
40°-50°	865.6	18.0
50°-60°	794.5	16.5
60°-70°	610.4	12.7
70°-80°	340.7	7.1
80°-90°	103.4	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°	1274.0	26.5
0°-40°	2097.2	43.6
0°-60°	3757.3	78.1
0°-90°	4811.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4811.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1626	1626	1618	1626	1628	155
15°	1572	1572	1567	1572	1575	444
25°	1470	1465	1463	1468	1470	677
35°	1326	1320	1310	1313	1313	828
45°	1140	1132	1117	1112	1112	879
55°	921	913	885	870	873	821
65°	659	641	606	598	598	651
75°	364	346	321	277	270	384
85°	84	86	97	94	92	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1630.8	1630.8	1630.8	1630.8	1630.8
2.5°	1630.8	1630.8	1623.1	1630.8	1633.3
5°	1625.7	1625.7	1618.0	1625.7	1628.2
7.5°	1618.0	1618.0	1610.4	1615.5	1620.6
10°	1605.3	1605.3	1600.2	1605.3	1607.9
12.5°	1592.6	1590.1	1585.0	1590.1	1592.6
15°	1572.2	1572.2	1567.2	1572.2	1574.8
17.5°	1551.9	1549.3	1544.3	1551.9	1554.4
20°	1526.4	1523.9	1518.8	1526.4	1531.5
22.5°	1498.5	1495.9	1493.4	1501.0	1503.6
25°	1470.5	1465.4	1462.8	1467.9	1470.5
27.5°	1434.9	1432.3	1429.8	1432.3	1434.9
30°	1401.8	1396.7	1394.2	1394.2	1399.2
32.5°	1361.1	1358.5	1356.0	1358.5	1358.5
35°	1325.5	1320.4	1310.2	1312.7	1312.7
37.5°	1282.2	1274.6	1267.0	1267.0	1267.0
40°	1236.4	1231.3	1221.2	1218.6	1221.2
42.5°	1188.1	1183.0	1172.8	1165.2	1167.7
45°	1139.7	1132.1	1116.9	1111.8	1111.8
47.5°	1088.9	1081.2	1063.4	1055.8	1058.3
50°	1035.4	1025.3	1004.9	994.7	994.7
52.5°	979.5	969.3	948.9	936.2	936.2
55°	921.0	913.3	885.3	870.1	872.6
57.5°	854.8	847.2	819.2	801.4	801.4
60°	796.3	781.0	748.0	735.2	735.2
62.5°	730.2	712.3	679.3	664.0	666.5
65°	658.9	641.1	605.5	597.9	597.9
67.5°	587.7	572.4	539.3	526.6	513.9
70°	511.4	496.1	470.7	440.1	424.9
72.5°	440.1	422.3	399.4	353.6	338.4
75°	363.8	346.0	320.6	277.3	269.7
77.5°	290.0	274.8	239.1	229.0	234.1
80°	216.2	211.2	185.7	195.9	203.5
82.5°	145.0	142.5	147.6	152.6	152.6
85°	84.0	86.5	96.7	94.1	91.6
87.5°	35.6	43.2	40.7	40.7	40.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)