

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: P238678

Luminaire Tested: **14ENA-LD2-47-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238678
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: 14ENA-LD2-47-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4066.1 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.67' x L: 3.83' x H: 0')
CIE Type: Direct

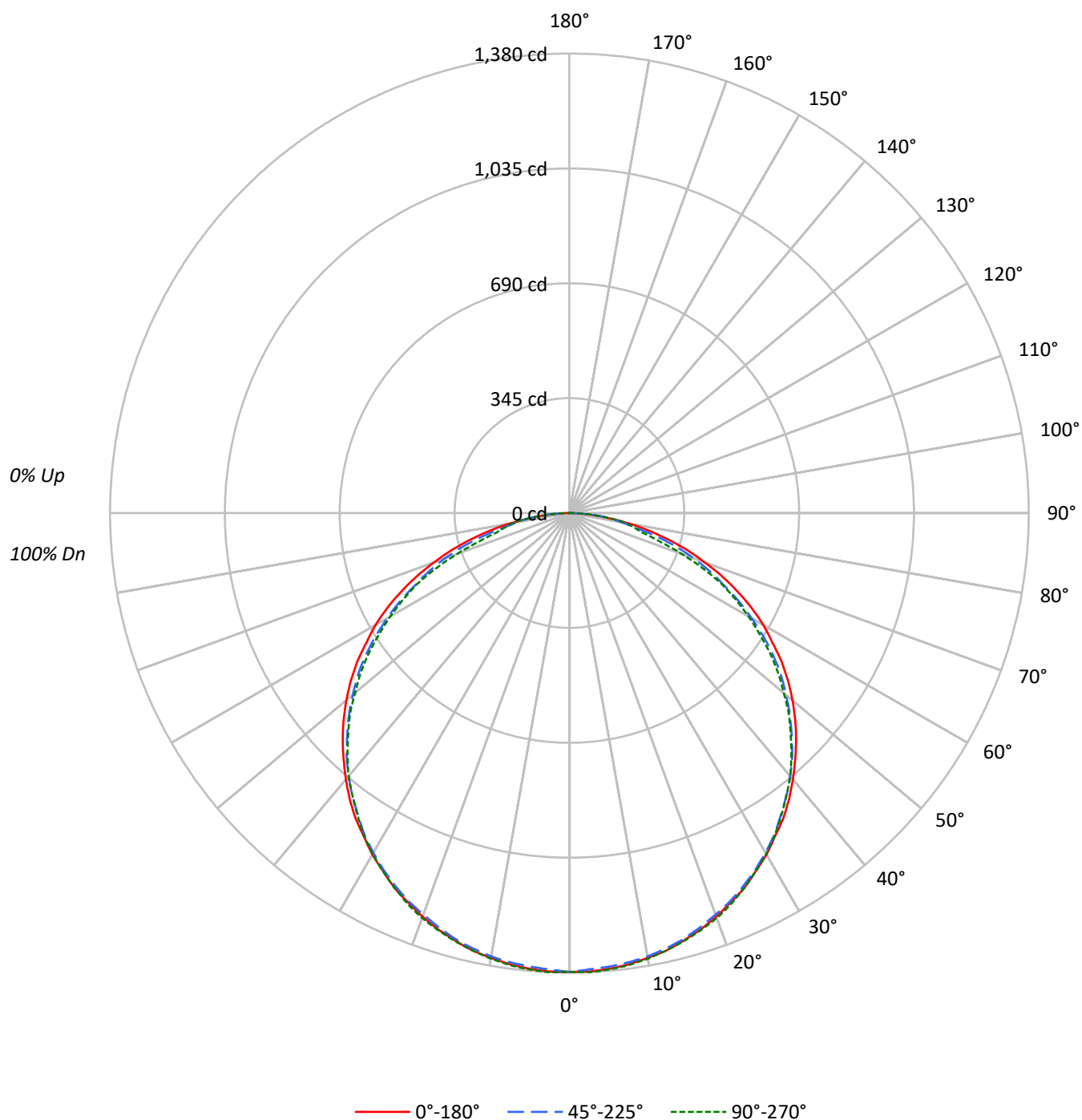
Input Watts (W): 41.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5804	5804	5804
5°	5808	5781	5817
10°	5802	5783	5811
15°	5793	5775	5803
20°	5782	5753	5801
25°	5775	5745	5775
30°	5761	5730	5751
35°	5759	5693	5704
40°	5745	5674	5674
45°	5737	5622	5596
50°	5734	5565	5508
55°	5715	5494	5415
60°	5668	5324	5234
65°	5549	5099	5035
70°	5321	4898	4421
75°	5003	4409	3709
80°	4432	3806	4172
85°	3426	3948	3741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	3.2
10°-20°	374.8	9.2
20°-30°	571.3	14.0
30°-40°	695.6	17.1
40°-50°	731.4	18.0
50°-60°	671.4	16.5
60°-70°	515.8	12.7
70°-80°	287.9	7.1
80°-90°	87.4	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°	1076.5	26.5
0°-40°	1772.1	43.6
0°-60°	3175.0	78.1
0°-90°	4066.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4066.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1374	1374	1367	1374	1376	131
15°	1329	1329	1324	1329	1331	375
25°	1243	1238	1236	1240	1243	572
35°	1120	1116	1107	1109	1109	700
45°	963	957	944	940	940	743
55°	778	772	748	735	737	694
65°	557	542	512	505	505	550
75°	307	292	271	234	228	325
85°	71	73	82	80	77	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.0	1378.0	1378.0	1378.0	1378.0
2.5°	1378.0	1378.0	1371.6	1378.0	1380.2
5°	1373.7	1373.7	1367.3	1373.7	1375.9
7.5°	1367.3	1367.3	1360.8	1365.1	1369.4
10°	1356.5	1356.5	1352.2	1356.5	1358.7
12.5°	1345.8	1343.6	1339.3	1343.6	1345.8
15°	1328.6	1328.6	1324.3	1328.6	1330.7
17.5°	1311.4	1309.2	1304.9	1311.4	1313.5
20°	1289.9	1287.7	1283.4	1289.9	1294.2
22.5°	1266.2	1264.1	1261.9	1268.4	1270.5
25°	1242.6	1238.3	1236.1	1240.4	1242.6
27.5°	1212.5	1210.3	1208.2	1210.3	1212.5
30°	1184.5	1180.2	1178.1	1178.1	1182.4
32.5°	1150.1	1148.0	1145.8	1148.0	1148.0
35°	1120.0	1115.7	1107.1	1109.3	1109.3
37.5°	1083.5	1077.0	1070.6	1070.6	1070.6
40°	1044.8	1040.5	1031.9	1029.7	1031.9
42.5°	1003.9	999.6	991.0	984.6	986.8
45°	963.1	956.7	943.8	939.5	939.5
47.5°	920.1	913.7	898.6	892.2	894.3
50°	875.0	866.4	849.2	840.6	840.6
52.5°	827.7	819.1	801.9	791.1	791.1
55°	778.2	771.8	748.1	735.2	737.4
57.5°	722.3	715.9	692.2	677.2	677.2
60°	672.9	660.0	632.0	621.3	621.3
62.5°	617.0	601.9	574.0	561.1	563.2
65°	556.8	541.7	511.6	505.2	505.2
67.5°	496.6	483.7	455.8	445.0	434.3
70°	432.1	419.2	397.7	371.9	359.0
72.5°	371.9	356.9	337.5	298.8	285.9
75°	307.4	292.4	270.9	234.3	227.9
77.5°	245.1	232.2	202.1	193.5	197.8
80°	182.7	178.4	156.9	165.5	172.0
82.5°	122.5	120.4	124.7	129.0	129.0
85°	70.9	73.1	81.7	79.5	77.4
87.5°	30.1	36.5	34.4	34.4	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)