

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: P238677

Luminaire Tested: **14ENA-LD2-47-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238677
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-L830-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3943.3 lumens
Efficiency: N/A
Efficacy: 95.0 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

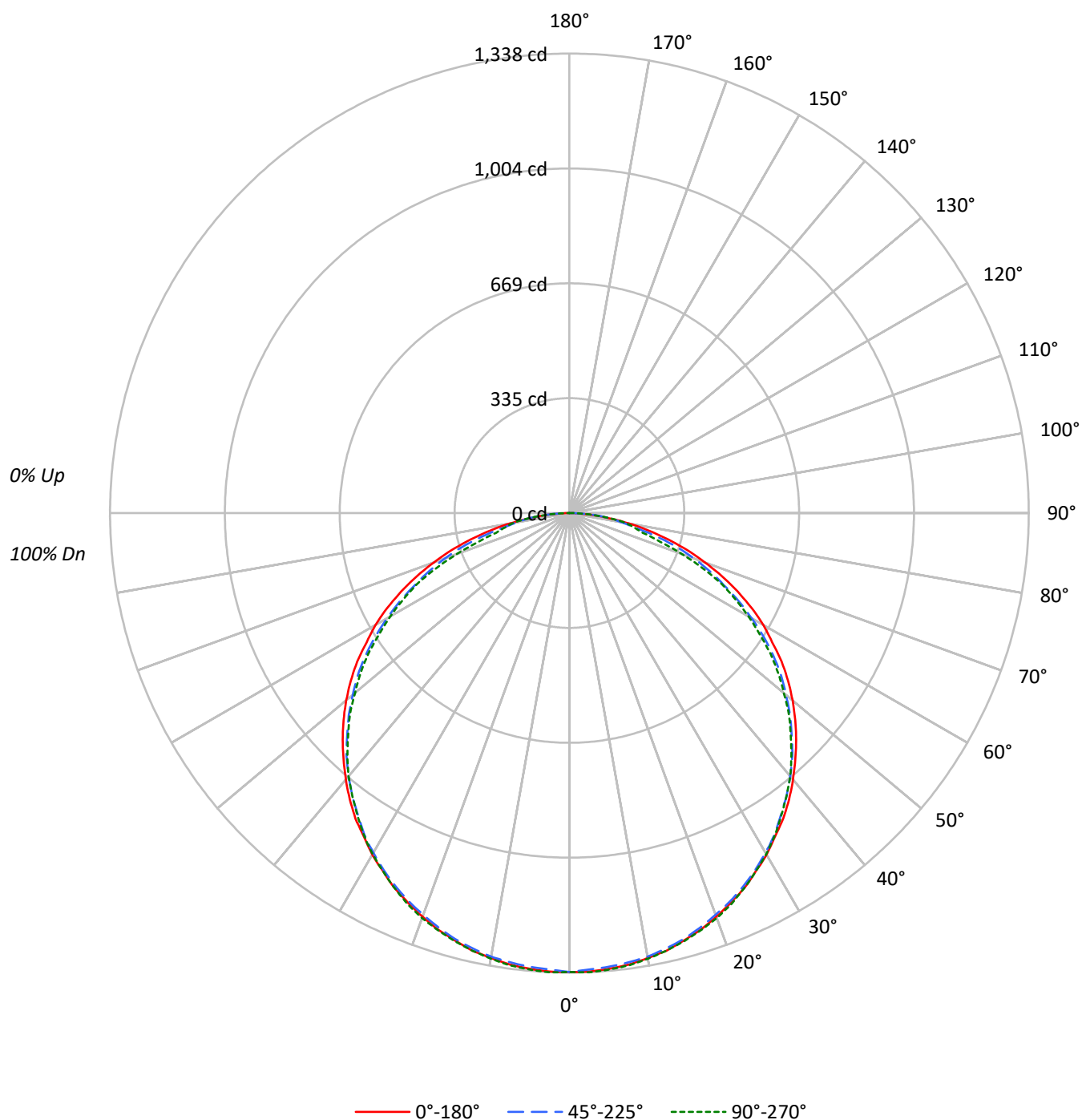
Input Watts (W): 41.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	90	88		90	87	85
2	99	90	83	77	96	88	82	76		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	77	70	63		74	68	62		72	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	69	56	47	40	68	55	46	40		53	46	40		51	45	39		50	44	39
7	64	51	42	36	63	50	41	35		48	41	35		47	40	35		45	39	35
8	60	46	38	32	58	45	37	32		44	37	31		43	36	31		42	36	31
9	56	42	34	28	54	42	34	28		41	33	28		40	33	28		38	32	28
10	52	39	31	26	51	39	31	26		38	30	26		37	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5629	5629	5629
5°	5633	5606	5642
10°	5626	5609	5635
15°	5618	5600	5627
20°	5607	5579	5626
25°	5600	5571	5600
30°	5587	5557	5577
35°	5585	5521	5532
40°	5571	5502	5502
45°	5563	5452	5427
50°	5560	5396	5342
55°	5542	5328	5251
60°	5497	5163	5075
65°	5382	4945	4883
70°	5161	4750	4288
75°	4851	4275	3597
80°	4298	3692	4046
85°	3325	3827	3629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	3.2
10°-20°	363.5	9.2
20°-30°	554.0	14.0
30°-40°	674.6	17.1
40°-50°	709.3	18.0
50°-60°	651.1	16.5
60°-70°	500.2	12.7
70°-80°	279.2	7.1
80°-90°	84.8	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°	1044.0	26.5
0°-40°	1718.6	43.6
0°-60°	3079.1	78.1
0°-90°	3943.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3943.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1332	1332	1326	1332	1334	127
15°	1288	1288	1284	1288	1290	364
25°	1205	1201	1199	1203	1205	555
35°	1086	1082	1074	1076	1076	679
45°	934	928	915	911	911	721
55°	755	748	726	713	715	673
65°	540	525	496	490	490	534
75°	298	284	263	227	221	315
85°	69	71	79	77	75	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.4	1336.4	1336.4	1336.4	1336.4
2.5°	1336.4	1336.4	1330.1	1336.4	1338.5
5°	1332.2	1332.2	1326.0	1332.2	1334.3
7.5°	1326.0	1326.0	1319.7	1323.9	1328.1
10°	1315.5	1315.5	1311.4	1315.5	1317.6
12.5°	1305.1	1303.0	1298.9	1303.0	1305.1
15°	1288.4	1288.4	1284.3	1288.4	1290.5
17.5°	1271.8	1269.7	1265.5	1271.8	1273.8
20°	1250.9	1248.8	1244.7	1250.9	1255.1
22.5°	1228.0	1225.9	1223.8	1230.1	1232.2
25°	1205.0	1200.9	1198.8	1203.0	1205.0
27.5°	1175.9	1173.8	1171.7	1173.8	1175.9
30°	1148.8	1144.6	1142.5	1142.5	1146.7
32.5°	1115.4	1113.3	1111.2	1113.3	1113.3
35°	1086.2	1082.0	1073.7	1075.8	1075.8
37.5°	1050.8	1044.5	1038.3	1038.3	1038.3
40°	1013.2	1009.1	1000.7	998.6	1000.7
42.5°	973.6	969.5	961.1	954.9	957.0
45°	934.0	927.8	915.3	911.1	911.1
47.5°	892.3	886.1	871.5	865.2	867.3
50°	848.5	840.2	823.5	815.2	815.2
52.5°	802.7	794.3	777.7	767.2	767.2
55°	754.7	748.5	725.5	713.0	715.1
57.5°	700.5	694.3	671.3	656.7	656.7
60°	652.6	640.1	612.9	602.5	602.5
62.5°	598.4	583.8	556.7	544.1	546.2
65°	540.0	525.4	496.2	489.9	489.9
67.5°	481.6	469.1	442.0	431.6	421.1
70°	419.1	406.5	385.7	360.7	348.2
72.5°	360.7	346.1	327.3	289.8	277.3
75°	298.1	283.5	262.7	227.2	221.0
77.5°	237.7	225.2	196.0	187.6	191.8
80°	177.2	173.0	152.2	160.5	166.8
82.5°	118.8	116.8	120.9	125.1	125.1
85°	68.8	70.9	79.2	77.1	75.1
87.5°	29.2	35.4	33.4	33.4	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)