

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: P238670

Luminaire Tested: **14ENA-LD2-38-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238670
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-LD2-38-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: 3300.7 lumens
Efficiency: N/A
Efficacy: 100.6 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

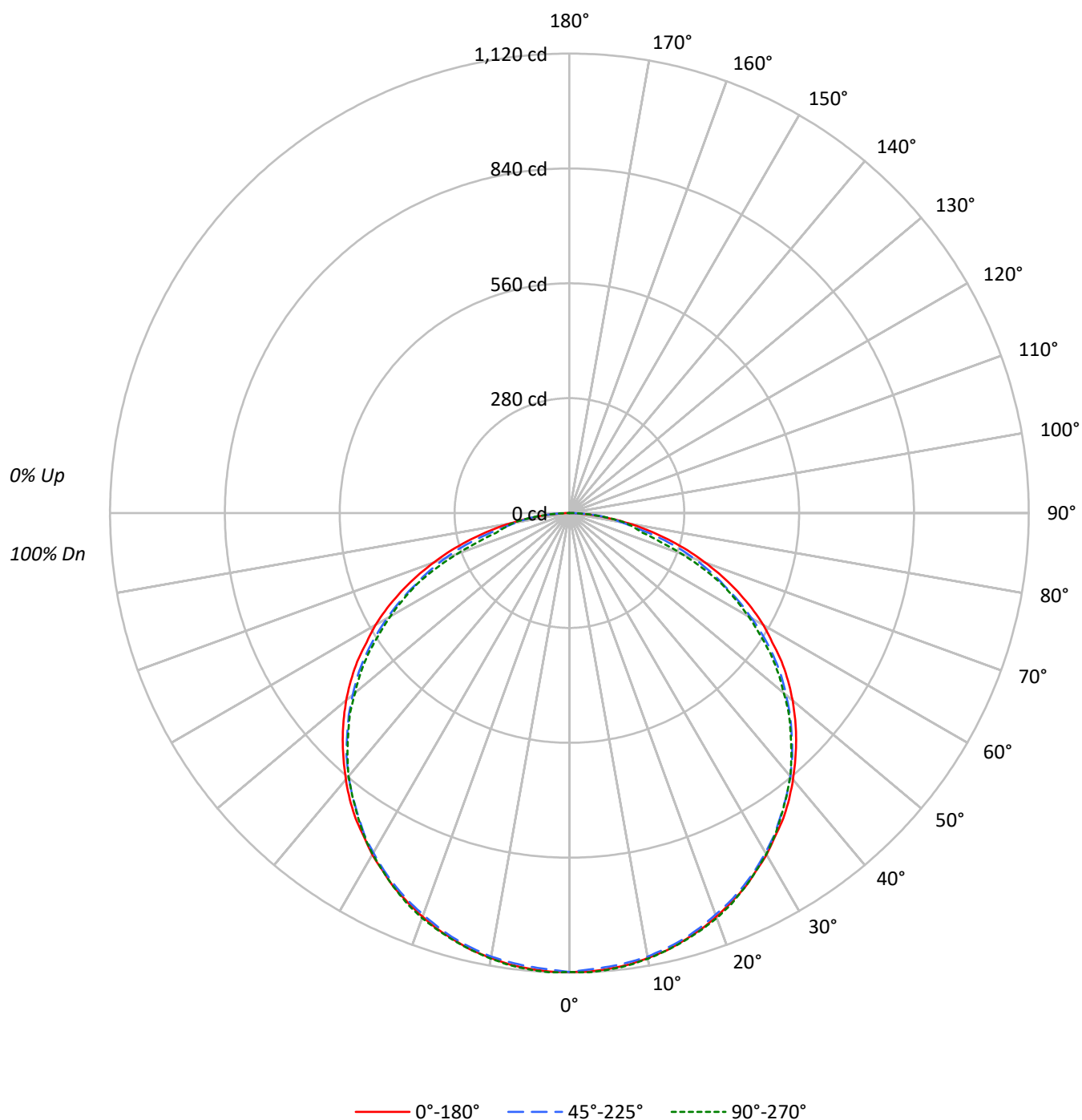
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	4712	4712	4712
5°	4715	4693	4722
10°	4710	4695	4717
15°	4703	4688	4710
20°	4693	4670	4709
25°	4688	4663	4688
30°	4677	4651	4668
35°	4675	4621	4630
40°	4663	4606	4606
45°	4657	4563	4543
50°	4654	4517	4471
55°	4639	4460	4396
60°	4601	4322	4248
65°	4505	4139	4087
70°	4320	3975	3589
75°	4062	3579	3011
80°	3597	3090	3386
85°	2784	3204	3035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	3.2
10°-20°	304.2	9.2
20°-30°	463.7	14.0
30°-40°	564.7	17.1
40°-50°	593.7	18.0
50°-60°	545.0	16.5
60°-70°	418.7	12.7
70°-80°	233.7	7.1
80°-90°	70.9	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°	873.9	26.5
0°-40°	1438.6	43.6
0°-60°	2577.3	78.1
0°-90°	3300.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3300.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1115	1115	1110	1115	1117	106
15°	1078	1078	1075	1078	1080	305
25°	1009	1005	1003	1007	1009	465
35°	909	906	899	900	900	568
45°	782	777	766	763	763	603
55°	632	626	607	597	599	563
65°	452	440	415	410	410	447
75°	250	237	220	190	185	264
85°	58	59	66	65	63	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1118.6	1118.6	1118.6	1118.6	1118.6
2.5°	1118.6	1118.6	1113.4	1118.6	1120.4
5°	1115.1	1115.1	1109.9	1115.1	1116.9
7.5°	1109.9	1109.9	1104.7	1108.1	1111.6
10°	1101.2	1101.2	1097.7	1101.2	1102.9
12.5°	1092.4	1090.7	1087.2	1090.7	1092.4
15°	1078.5	1078.5	1075.0	1078.5	1080.2
17.5°	1064.5	1062.8	1059.3	1064.5	1066.3
20°	1047.1	1045.3	1041.8	1047.1	1050.6
22.5°	1027.9	1026.1	1024.4	1029.6	1031.4
25°	1008.7	1005.2	1003.4	1006.9	1008.7
27.5°	984.2	982.5	980.8	982.5	984.2
30°	961.6	958.1	956.3	956.3	959.8
32.5°	933.6	931.9	930.1	931.9	931.9
35°	909.2	905.7	898.7	900.5	900.5
37.5°	879.5	874.3	869.1	869.1	869.1
40°	848.1	844.6	837.7	835.9	837.7
42.5°	815.0	811.5	804.5	799.3	801.0
45°	781.8	776.6	766.1	762.6	762.6
47.5°	746.9	741.7	729.5	724.2	726.0
50°	710.3	703.3	689.3	682.3	682.3
52.5°	671.9	664.9	650.9	642.2	642.2
55°	631.7	626.5	607.3	596.8	598.6
57.5°	586.4	581.1	561.9	549.7	549.7
60°	546.2	535.7	513.1	504.3	504.3
62.5°	500.8	488.6	465.9	455.5	457.2
65°	452.0	439.8	415.3	410.1	410.1
67.5°	403.1	392.6	370.0	361.2	352.5
70°	350.8	340.3	322.8	301.9	291.4
72.5°	301.9	289.7	274.0	242.6	232.1
75°	249.6	237.3	219.9	190.2	185.0
77.5°	198.9	188.5	164.0	157.1	160.5
80°	148.3	144.8	127.4	134.4	139.6
82.5°	99.5	97.7	101.2	104.7	104.7
85°	57.6	59.3	66.3	64.6	62.8
87.5°	24.4	29.7	27.9	27.9	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)