

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: P238766

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238766
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-LD2-38-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: 3838.0 lumens
Efficiency: N/A
Efficacy: 117.0 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

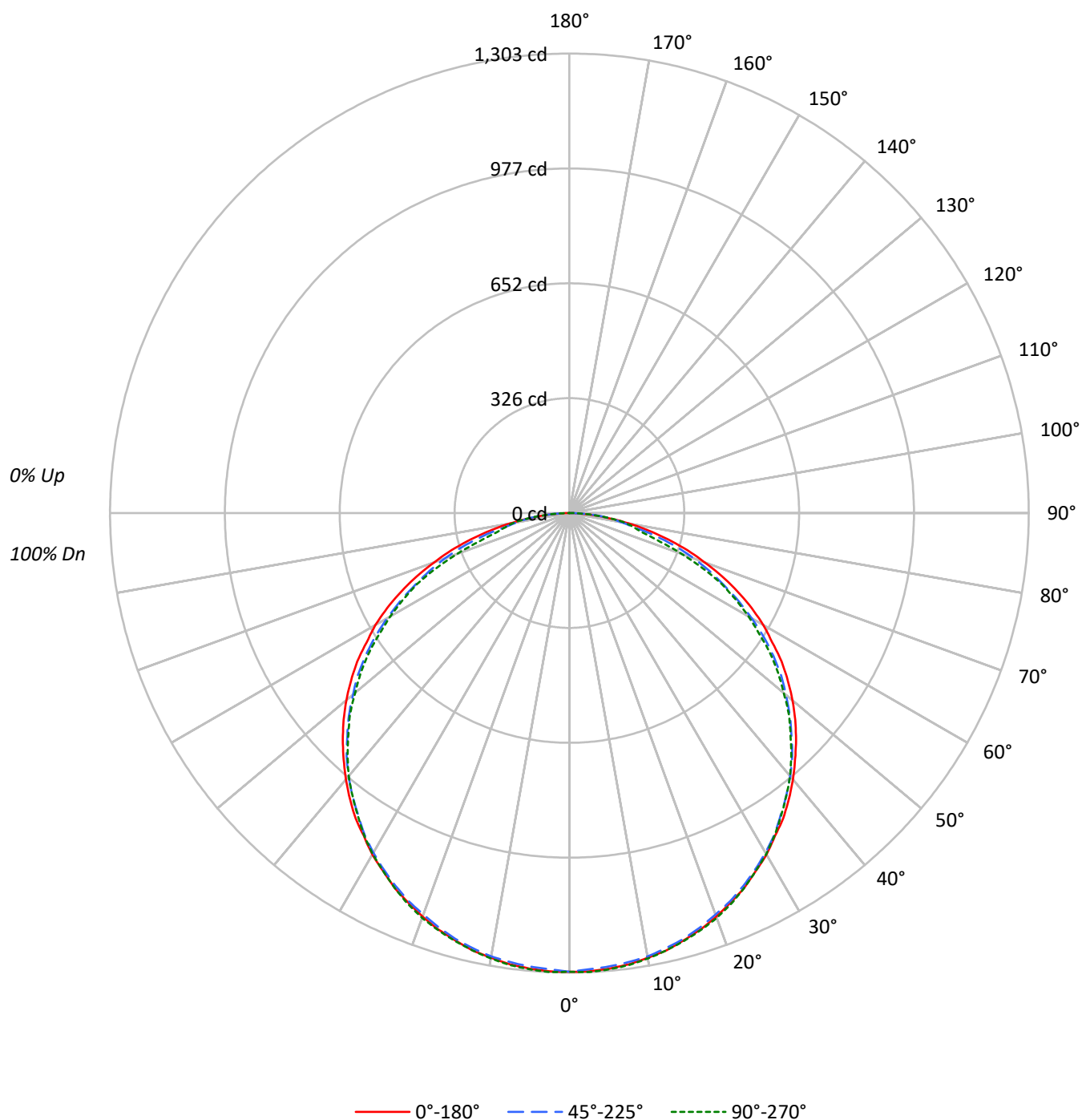
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	3652	3652	3652
5°	3655	3638	3661
10°	3651	3639	3657
15°	3645	3634	3652
20°	3638	3620	3650
25°	3634	3615	3634
30°	3625	3606	3619
35°	3624	3582	3589
40°	3615	3570	3570
45°	3610	3537	3522
50°	3608	3501	3466
55°	3596	3457	3407
60°	3567	3350	3293
65°	3492	3209	3169
70°	3349	3082	2782
75°	3148	2774	2334
80°	2789	2395	2624
85°	2159	2484	2355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	3.2
10°-20°	353.8	9.2
20°-30°	539.2	14.0
30°-40°	656.6	17.1
40°-50°	690.4	18.0
50°-60°	633.7	16.5
60°-70°	486.9	12.7
70°-80°	271.8	7.1
80°-90°	82.5	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°	1016.1	26.5
0°-40°	1672.7	43.6
0°-60°	2996.9	78.1
0°-90°	3838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1297	1297	1291	1297	1299	123
15°	1254	1254	1250	1254	1256	354
25°	1173	1169	1167	1171	1173	540
35°	1057	1053	1045	1047	1047	661
45°	909	903	891	887	887	701
55°	735	728	706	694	696	655
65°	526	511	483	477	477	519
75°	290	276	256	221	215	307
85°	67	69	77	75	73	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1300.7	1300.7	1300.7	1300.7	1300.7
2.5°	1300.7	1300.7	1294.6	1300.7	1302.7
5°	1296.7	1296.7	1290.6	1296.7	1298.7
7.5°	1290.6	1290.6	1284.5	1288.5	1292.6
10°	1280.4	1280.4	1276.4	1280.4	1282.5
12.5°	1270.3	1268.2	1264.2	1268.2	1270.3
15°	1254.0	1254.0	1250.0	1254.0	1256.1
17.5°	1237.8	1235.8	1231.7	1237.8	1239.8
20°	1217.5	1215.5	1211.4	1217.5	1221.6
22.5°	1195.2	1193.2	1191.1	1197.2	1199.3
25°	1172.9	1168.8	1166.8	1170.8	1172.9
27.5°	1144.5	1142.4	1140.4	1142.4	1144.5
30°	1118.1	1114.0	1112.0	1112.0	1116.1
32.5°	1085.6	1083.6	1081.6	1083.6	1083.6
35°	1057.2	1053.2	1045.0	1047.1	1047.1
37.5°	1022.7	1016.6	1010.5	1010.5	1010.5
40°	986.2	982.1	974.0	972.0	974.0
42.5°	947.6	943.6	935.5	929.4	931.4
45°	909.1	903.0	890.8	886.8	886.8
47.5°	868.5	862.4	848.2	842.1	844.1
50°	825.9	817.8	801.5	793.4	793.4
52.5°	781.2	773.1	756.9	746.7	746.7
55°	734.6	728.5	706.2	694.0	696.0
57.5°	681.8	675.7	653.4	639.2	639.2
60°	635.1	623.0	596.6	586.4	586.4
62.5°	582.4	568.2	541.8	529.6	531.6
65°	525.6	511.4	482.9	476.9	476.9
67.5°	468.7	456.6	430.2	420.0	409.9
70°	407.9	395.7	375.4	351.1	338.9
72.5°	351.1	336.8	318.6	282.1	269.9
75°	290.2	276.0	255.7	221.2	215.1
77.5°	231.3	219.2	190.7	182.6	186.7
80°	172.5	168.4	148.1	156.2	162.3
82.5°	115.7	113.6	117.7	121.8	121.8
85°	67.0	69.0	77.1	75.1	73.1
87.5°	28.4	34.5	32.5	32.5	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)