

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: P238767

Luminaire Tested: **14EN-LD2-38-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238767
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-L840-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3914.8 lumens
Efficiency: N/A
Efficacy: 119.4 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

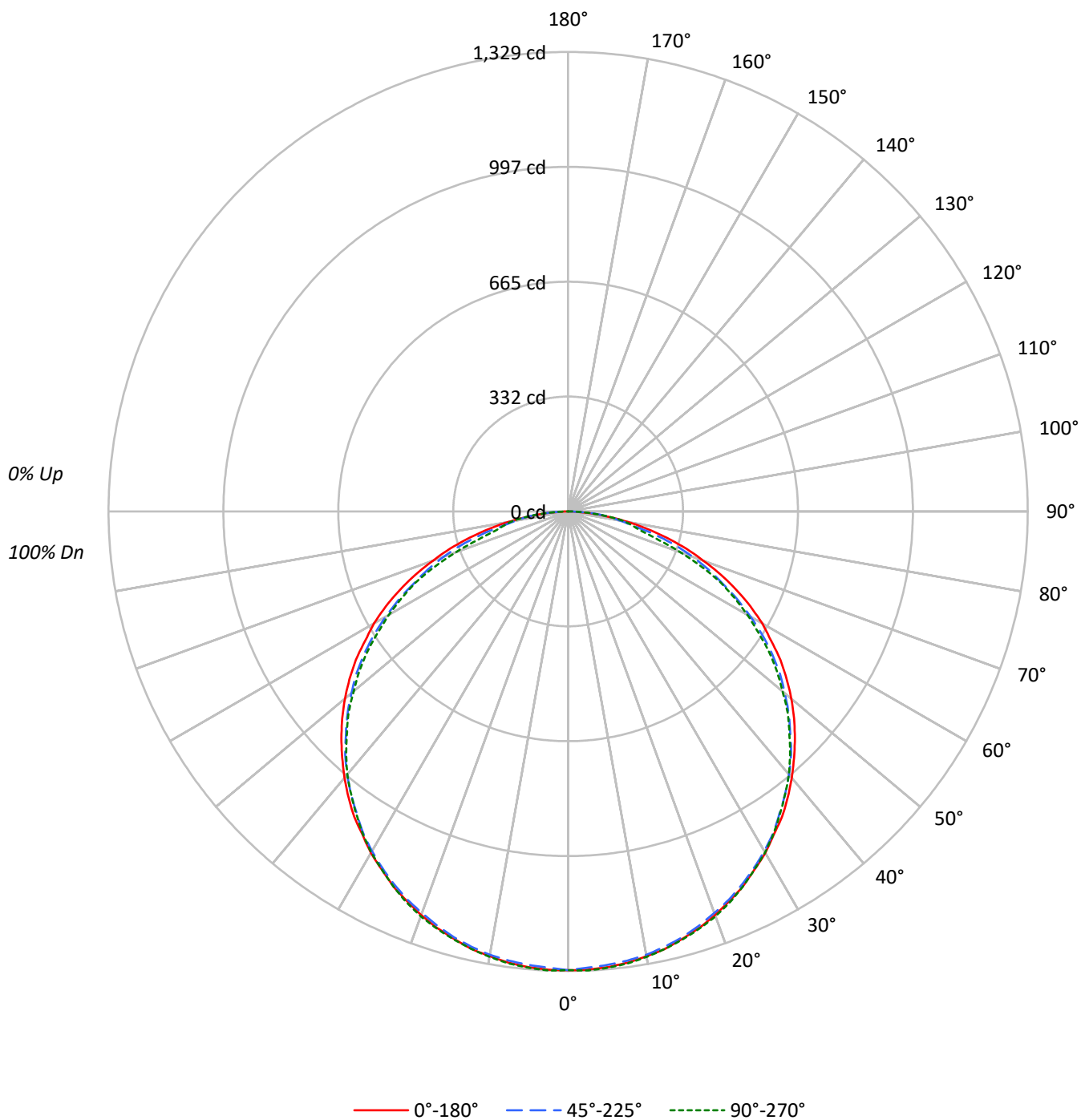
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3725	3725	3725
5°	3728	3711	3734
10°	3724	3712	3730
15°	3718	3706	3724
20°	3711	3693	3723
25°	3706	3687	3706
30°	3698	3678	3691
35°	3697	3654	3661
40°	3687	3642	3642
45°	3682	3608	3592
50°	3680	3572	3535
55°	3668	3526	3475
60°	3638	3417	3359
65°	3562	3273	3232
70°	3415	3144	2838
75°	3211	2829	2380
80°	2844	2443	2678
85°	2200	2536	2400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.2
10°-20°	360.8	9.2
20°-30°	550.0	14.0
30°-40°	669.7	17.1
40°-50°	704.2	18.0
50°-60°	646.4	16.5
60°-70°	496.6	12.7
70°-80°	277.2	7.1
80°-90°	84.2	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°	1036.5	26.5
0°-40°	1706.2	43.6
0°-60°	3056.8	78.1
0°-90°	3914.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3914.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1323	1323	1316	1323	1325	126
15°	1279	1279	1275	1279	1281	361
25°	1196	1192	1190	1194	1196	551
35°	1078	1074	1066	1068	1068	674
45°	927	921	909	904	904	715
55°	749	743	720	708	710	668
65°	536	522	493	486	486	530
75°	296	282	261	226	219	313
85°	68	70	79	77	74	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.7	1326.7	1326.7	1326.7	1326.7
2.5°	1326.7	1326.7	1320.5	1326.7	1328.8
5°	1322.6	1322.6	1316.4	1322.6	1324.7
7.5°	1316.4	1316.4	1310.2	1314.3	1318.4
10°	1306.0	1306.0	1301.9	1306.0	1308.1
12.5°	1295.7	1293.6	1289.5	1293.6	1295.7
15°	1279.1	1279.1	1275.0	1279.1	1281.2
17.5°	1262.6	1260.5	1256.4	1262.6	1264.6
20°	1241.9	1239.8	1235.7	1241.9	1246.0
22.5°	1219.1	1217.0	1215.0	1221.2	1223.2
25°	1196.3	1192.2	1190.1	1194.3	1196.3
27.5°	1167.4	1165.3	1163.2	1165.3	1167.4
30°	1140.4	1136.3	1134.2	1134.2	1138.4
32.5°	1107.3	1105.3	1103.2	1105.3	1105.3
35°	1078.4	1074.2	1065.9	1068.0	1068.0
37.5°	1043.2	1037.0	1030.7	1030.7	1030.7
40°	1005.9	1001.8	993.5	991.4	993.5
42.5°	966.6	962.4	954.2	948.0	950.0
45°	927.3	921.1	908.6	904.5	904.5
47.5°	885.9	879.7	865.2	859.0	861.0
50°	842.4	834.1	817.6	809.3	809.3
52.5°	796.9	788.6	772.0	761.7	761.7
55°	749.3	743.1	720.3	707.9	709.9
57.5°	695.4	689.2	666.5	652.0	652.0
60°	647.8	635.4	608.5	598.2	598.2
62.5°	594.0	579.5	552.6	540.2	542.3
65°	536.1	521.6	492.6	486.4	486.4
67.5°	478.1	465.7	438.8	428.4	418.1
70°	416.0	403.6	382.9	358.1	345.7
72.5°	358.1	343.6	325.0	287.7	275.3
75°	296.0	281.5	260.8	225.6	219.4
77.5°	236.0	223.5	194.6	186.3	190.4
80°	175.9	171.8	151.1	159.4	165.6
82.5°	118.0	115.9	120.0	124.2	124.2
85°	68.3	70.4	78.7	76.6	74.5
87.5°	29.0	35.2	33.1	33.1	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)