

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: P238706

Luminaire Tested: **14EN-LD2-43-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238706
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-LD2-43-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3732.5 lumens
Efficiency: N/A
Efficacy: 99.3 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

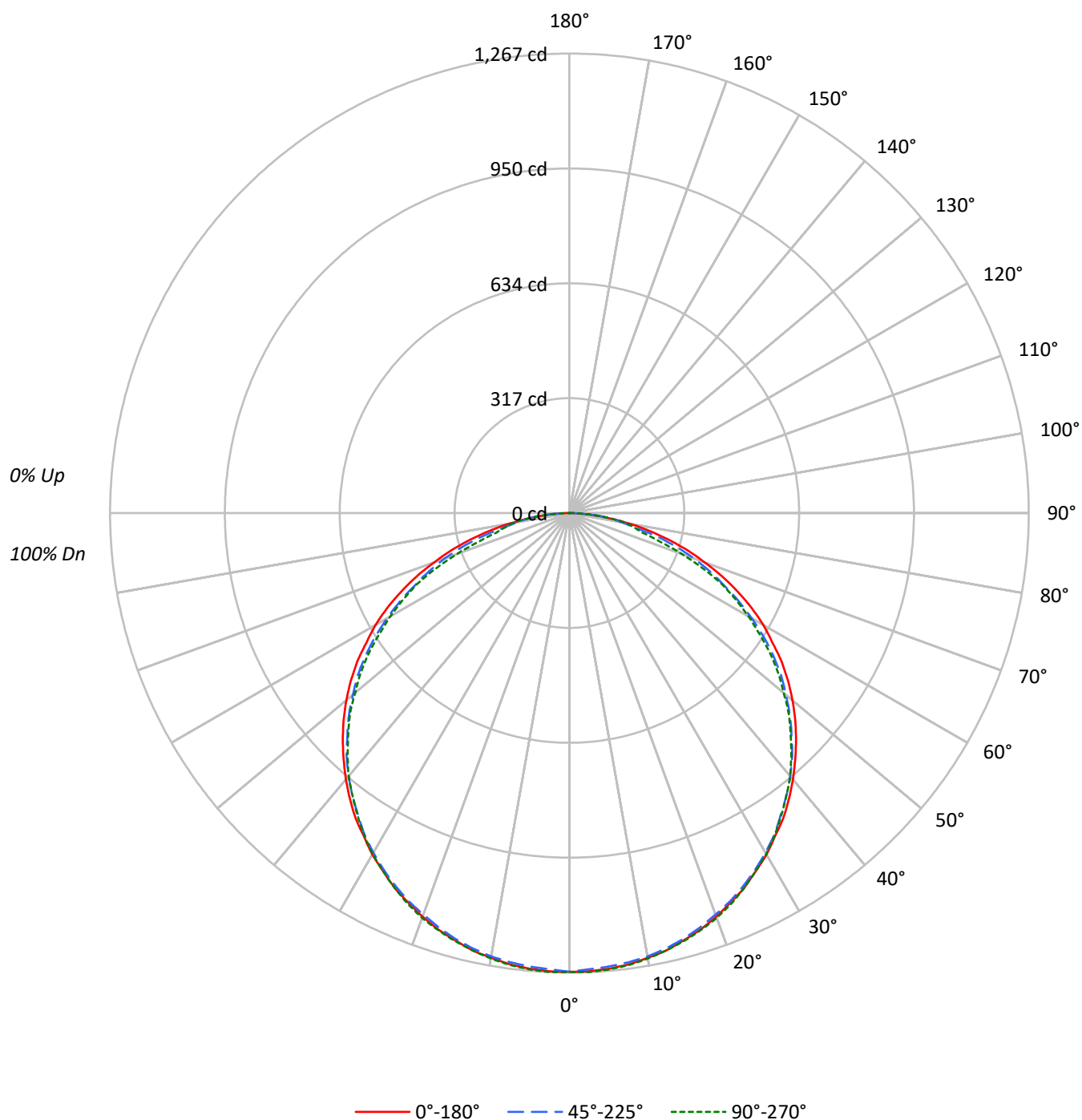
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83		
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58		
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26		
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3552	3552	3552
5°	3554	3538	3560
10°	3550	3539	3556
15°	3545	3534	3551
20°	3538	3520	3550
25°	3534	3516	3534
30°	3525	3506	3519
35°	3524	3484	3491
40°	3516	3472	3472
45°	3511	3440	3425
50°	3509	3405	3371
55°	3497	3362	3314
60°	3469	3258	3203
65°	3396	3121	3081
70°	3256	2997	2706
75°	3062	2697	2270
80°	2712	2330	2553
85°	2097	2416	2287



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	3.2
10°-20°	344.0	9.2
20°-30°	524.4	14.0
30°-40°	638.6	17.1
40°-50°	671.4	18.0
50°-60°	616.3	16.5
60°-70°	473.5	12.7
70°-80°	264.3	7.1
80°-90°	80.2	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°	988.2	26.5
0°-40°	1626.7	43.6
0°-60°	2914.4	78.1
0°-90°	3732.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3732.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1261	1261	1255	1261	1263	120
15°	1220	1220	1216	1220	1222	344
25°	1141	1137	1135	1139	1141	525
35°	1028	1024	1016	1018	1018	643
45°	884	878	866	862	862	682
55°	714	708	687	675	677	637
65°	511	497	470	464	464	505
75°	282	268	249	215	209	298
85°	65	67	75	73	71	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1264.9	1264.9	1259.0	1264.9	1266.9
5°	1261.0	1261.0	1255.1	1261.0	1263.0
7.5°	1255.1	1255.1	1249.2	1253.1	1257.0
10°	1245.2	1245.2	1241.3	1245.2	1247.2
12.5°	1235.3	1233.4	1229.4	1233.4	1235.3
15°	1219.5	1219.5	1215.6	1219.5	1221.5
17.5°	1203.8	1201.8	1197.8	1203.8	1205.7
20°	1184.0	1182.1	1178.1	1184.0	1188.0
22.5°	1162.3	1160.3	1158.4	1164.3	1166.3
25°	1140.6	1136.7	1134.7	1138.6	1140.6
27.5°	1113.0	1111.0	1109.0	1111.0	1113.0
30°	1087.3	1083.4	1081.4	1081.4	1085.4
32.5°	1055.8	1053.8	1051.8	1053.8	1053.8
35°	1028.1	1024.2	1016.3	1018.3	1018.3
37.5°	994.6	988.7	982.7	982.7	982.7
40°	959.1	955.1	947.2	945.2	947.2
42.5°	921.6	917.6	909.7	903.8	905.8
45°	884.1	878.2	866.3	862.4	862.4
47.5°	844.6	838.7	824.9	819.0	820.9
50°	803.2	795.3	779.5	771.6	771.6
52.5°	759.8	751.9	736.1	726.2	726.2
55°	714.4	708.4	686.7	674.9	676.9
57.5°	663.1	657.1	635.4	621.6	621.6
60°	617.7	605.8	580.2	570.3	570.3
62.5°	566.4	552.5	526.9	515.1	517.0
65°	511.1	497.3	469.7	463.7	463.7
67.5°	455.9	444.0	418.4	408.5	398.6
70°	396.6	384.8	365.1	341.4	329.6
72.5°	341.4	327.6	309.8	274.3	262.5
75°	282.2	268.4	248.6	215.1	209.2
77.5°	225.0	213.1	185.5	177.6	181.6
80°	167.7	163.8	144.1	152.0	157.9
82.5°	112.5	110.5	114.5	118.4	118.4
85°	65.1	67.1	75.0	73.0	71.0
87.5°	27.6	33.5	31.6	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)