

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: P238674

Luminaire Tested: **14ENA-LD2-43-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238674
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-LD2-43-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: 3728.1 lumens
Efficiency: N/A
Efficacy: 99.2 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

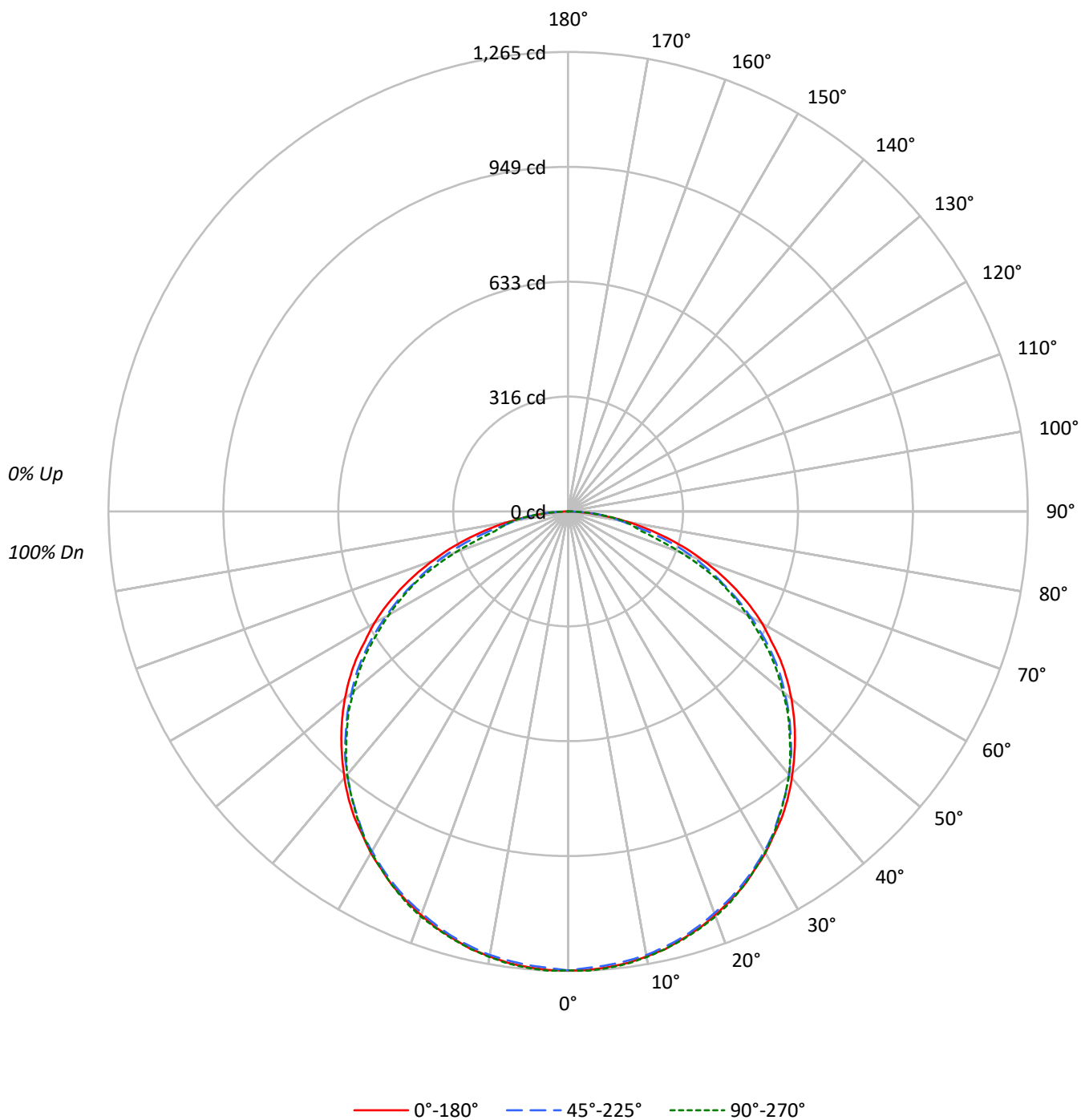
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5322	5322	5322
5°	5325	5300	5334
10°	5320	5303	5328
15°	5312	5295	5320
20°	5301	5274	5319
25°	5295	5267	5295
30°	5282	5254	5273
35°	5280	5220	5230
40°	5267	5202	5202
45°	5260	5154	5131
50°	5257	5102	5050
55°	5239	5037	4965
60°	5198	4882	4798
65°	5088	4675	4616
70°	4879	4491	4054
75°	4588	4042	3400
80°	4063	3490	3825
85°	3141	3620	3431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	3.2
10°-20°	343.6	9.2
20°-30°	523.8	14.0
30°-40°	637.8	17.1
40°-50°	670.6	18.0
50°-60°	615.6	16.5
60°-70°	472.9	12.7
70°-80°	264.0	7.1
80°-90°	80.1	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°	987.0	26.5
0°-40°	1624.8	43.6
0°-60°	2911.1	78.1
0°-90°	3728.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3728.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1260	1260	1254	1260	1262	120
15°	1218	1218	1214	1218	1220	344
25°	1139	1135	1133	1137	1139	525
35°	1027	1023	1015	1017	1017	642
45°	883	877	865	861	861	681
55°	714	708	686	674	676	636
65°	510	497	469	463	463	504
75°	282	268	248	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°	1263.5	1263.5	1263.5	1263.5	1263.5
2.5°	1263.5	1263.5	1257.6	1263.5	1265.4
5°	1259.5	1259.5	1253.6	1259.5	1261.5
7.5°	1253.6	1253.6	1247.7	1251.6	1255.6
10°	1243.8	1243.8	1239.8	1243.8	1245.7
12.5°	1233.9	1231.9	1228.0	1231.9	1233.9
15°	1218.1	1218.1	1214.2	1218.1	1220.1
17.5°	1202.4	1200.4	1196.5	1202.4	1204.3
20°	1182.7	1180.7	1176.7	1182.7	1186.6
22.5°	1161.0	1159.0	1157.0	1162.9	1164.9
25°	1139.3	1135.3	1133.4	1137.3	1139.3
27.5°	1111.7	1109.7	1107.8	1109.7	1111.7
30°	1086.1	1082.1	1080.2	1080.2	1084.1
32.5°	1054.5	1052.6	1050.6	1052.6	1052.6
35°	1026.9	1023.0	1015.1	1017.1	1017.1
37.5°	993.4	987.5	981.6	981.6	981.6
40°	957.9	954.0	946.1	944.2	946.1
42.5°	920.5	916.6	908.7	902.8	904.7
45°	883.0	877.1	865.3	861.4	861.4
47.5°	843.6	837.7	823.9	818.0	820.0
50°	802.2	794.3	778.6	770.7	770.7
52.5°	758.9	751.0	735.2	725.4	725.4
55°	713.5	707.6	685.9	674.1	676.1
57.5°	662.3	656.4	634.7	620.9	620.9
60°	617.0	605.1	579.5	569.6	569.6
62.5°	565.7	551.9	526.3	514.5	516.4
65°	510.5	496.7	469.1	463.2	463.2
67.5°	455.3	443.5	417.9	408.0	398.2
70°	396.2	384.4	364.7	341.0	329.2
72.5°	341.0	327.2	309.5	274.0	262.2
75°	281.9	268.1	248.4	214.8	208.9
77.5°	224.7	212.9	185.3	177.4	181.3
80°	167.5	163.6	143.9	151.8	157.7
82.5°	112.4	110.4	114.3	118.3	118.3
85°	65.0	67.0	74.9	72.9	71.0
87.5°	27.6	33.5	31.5	31.5	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)