

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: P238744

Luminaire Tested: **14ENA-LD2-47-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238744
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-LD2-47-UNV-L950-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3881.5 lumens
Efficiency: N/A
Efficacy: 93.5 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

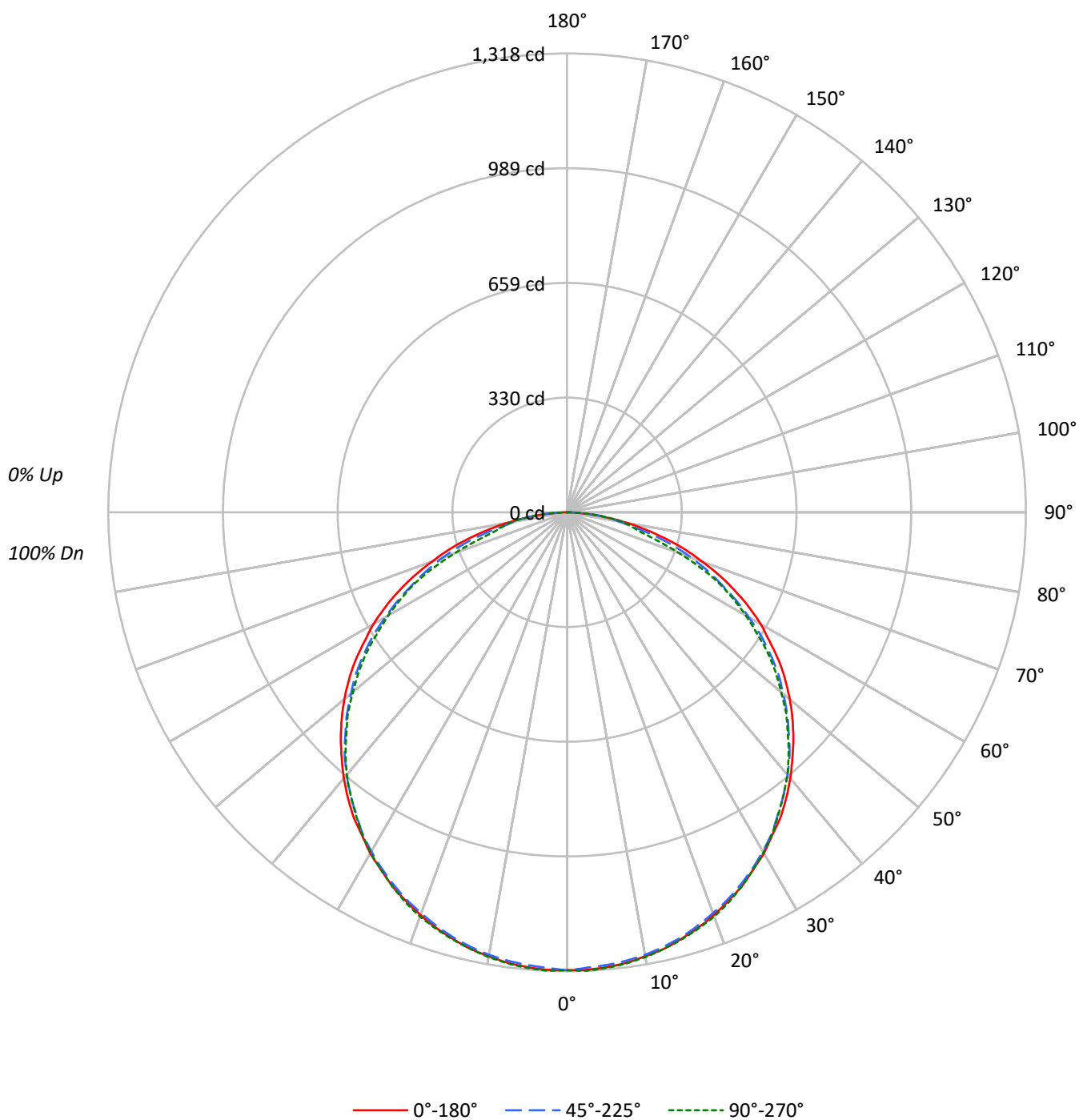
Input Watts (W): 41.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5540	5540	5540
5°	5544	5518	5553
10°	5538	5521	5547
15°	5530	5512	5539
20°	5519	5492	5537
25°	5513	5484	5513
30°	5500	5470	5490
35°	5498	5434	5445
40°	5484	5416	5416
45°	5477	5366	5342
50°	5473	5312	5258
55°	5455	5245	5169
60°	5411	5082	4996
65°	5297	4868	4807
70°	5080	4676	4220
75°	4776	4208	3540
80°	4230	3634	3983
85°	3272	3770	3571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	3.2
10°-20°	357.8	9.2
20°-30°	545.3	14.0
30°-40°	664.1	17.1
40°-50°	698.2	18.0
50°-60°	640.9	16.5
60°-70°	492.4	12.7
70°-80°	274.8	7.1
80°-90°	83.4	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°	1027.6	26.5
0°-40°	1691.7	43.6
0°-60°	3030.8	78.1
0°-90°	3881.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3881.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1315	1315	1315	1315	1315	
5°	1311	1311	1305	1311	1313	125
15°	1268	1268	1264	1268	1270	358
25°	1186	1182	1180	1184	1186	546
35°	1069	1065	1057	1059	1059	668
45°	919	913	901	897	897	709
55°	743	737	714	702	704	662
65°	532	517	488	482	482	525
75°	294	279	259	224	218	310
85°	68	70	78	76	74	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1315.4	1315.4	1315.4	1315.4	1315.4
2.5°	1315.4	1315.4	1309.3	1315.4	1317.5
5°	1311.3	1311.3	1305.2	1311.3	1313.4
7.5°	1305.2	1305.2	1299.0	1303.1	1307.2
10°	1294.9	1294.9	1290.8	1294.9	1297.0
12.5°	1284.7	1282.6	1278.5	1282.6	1284.7
15°	1268.2	1268.2	1264.1	1268.2	1270.3
17.5°	1251.8	1249.8	1245.7	1251.8	1253.9
20°	1231.3	1229.3	1225.2	1231.3	1235.4
22.5°	1208.7	1206.7	1204.6	1210.8	1212.8
25°	1186.2	1182.1	1180.0	1184.1	1186.2
27.5°	1157.4	1155.4	1153.3	1155.4	1157.4
30°	1130.8	1126.6	1124.6	1124.6	1128.7
32.5°	1097.9	1095.9	1093.8	1095.9	1095.9
35°	1069.2	1065.1	1056.9	1058.9	1058.9
37.5°	1034.3	1028.1	1022.0	1022.0	1022.0
40°	997.4	993.3	985.0	983.0	985.0
42.5°	958.4	954.3	946.1	939.9	942.0
45°	919.4	913.2	900.9	896.8	896.8
47.5°	878.3	872.2	857.8	851.7	853.7
50°	835.2	827.0	810.6	802.4	802.4
52.5°	790.1	781.9	765.5	755.2	755.2
55°	742.9	736.7	714.2	701.8	703.9
57.5°	689.5	683.4	660.8	646.4	646.4
60°	642.3	630.0	603.3	593.1	593.1
62.5°	589.0	574.6	547.9	535.6	537.7
65°	531.5	517.2	488.4	482.3	482.3
67.5°	474.1	461.7	435.1	424.8	414.5
70°	412.5	400.2	379.7	355.0	342.7
72.5°	355.0	340.7	322.2	285.3	272.9
75°	293.5	279.1	258.6	223.7	217.5
77.5°	233.9	221.6	192.9	184.7	188.8
80°	174.4	170.3	149.8	158.0	164.2
82.5°	117.0	114.9	119.0	123.1	123.1
85°	67.7	69.8	78.0	75.9	73.9
87.5°	28.7	34.9	32.8	32.8	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)