

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: P238741

Luminaire Tested: **14ENA-LD2-47-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238741
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-L930-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3407.0 lumens
Efficiency: N/A
Efficacy: 82.1 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

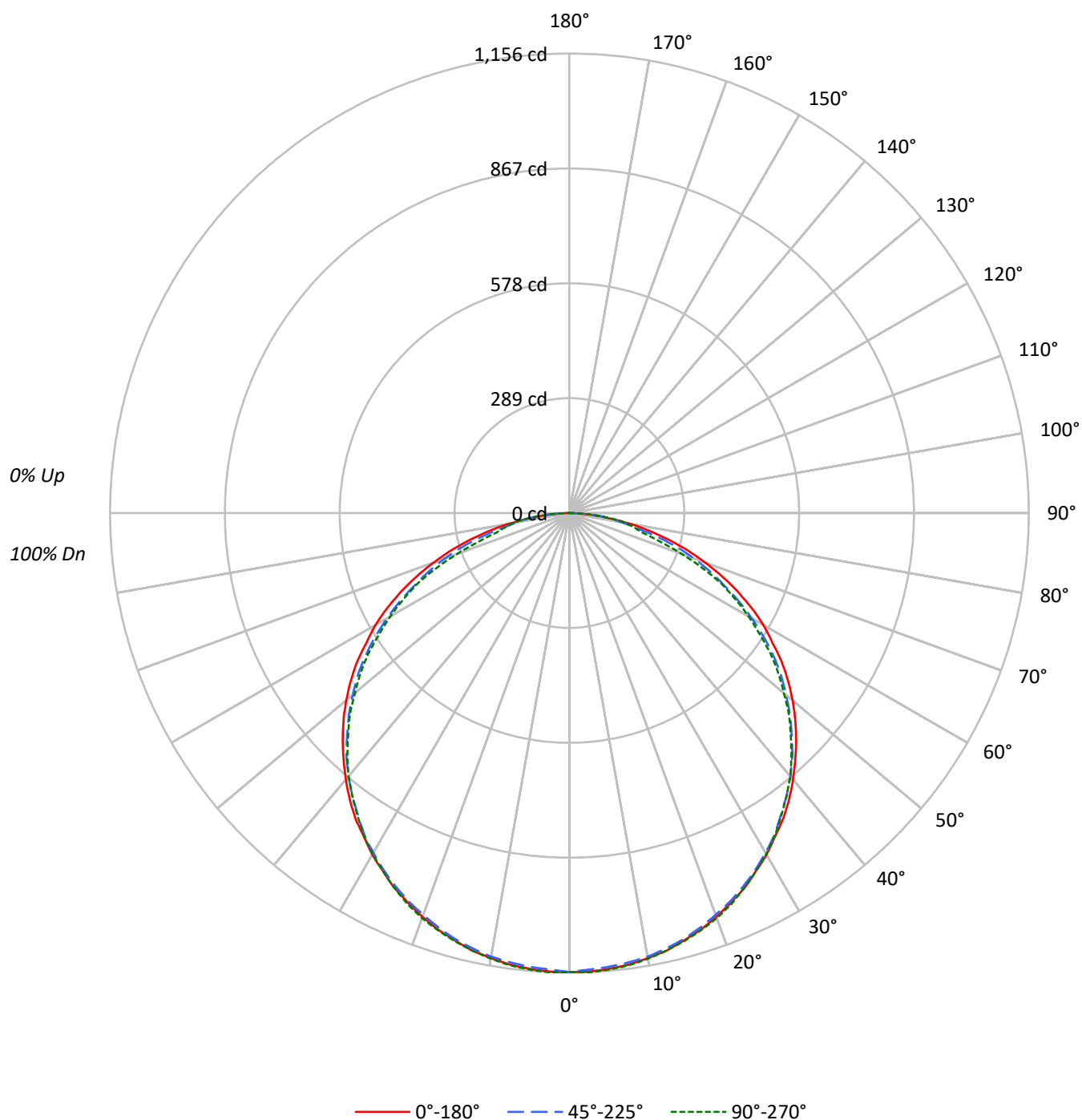
Input Watts (W): 41.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4863	4863	4863
5°	4866	4844	4874
10°	4861	4846	4869
15°	4854	4838	4862
20°	4844	4820	4861
25°	4839	4814	4839
30°	4827	4801	4818
35°	4826	4770	4779
40°	4813	4754	4754
45°	4807	4711	4689
50°	4804	4662	4615
55°	4789	4604	4537
60°	4749	4461	4386
65°	4649	4273	4219
70°	4459	4103	3704
75°	4192	3694	3107
80°	3714	3190	3495
85°	2871	3310	3132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	3.2
10°-20°	314.0	9.2
20°-30°	478.7	14.0
30°-40°	582.9	17.1
40°-50°	612.9	18.0
50°-60°	562.6	16.5
60°-70°	432.2	12.7
70°-80°	241.2	7.1
80°-90°	73.2	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°	902.0	26.5
0°-40°	1484.9	43.6
0°-60°	2660.3	78.1
0°-90°	3407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1151	1151	1146	1151	1153	109
15°	1113	1113	1110	1113	1115	314
25°	1041	1038	1036	1039	1041	480
35°	938	935	928	930	930	587
45°	807	802	791	787	787	623
55°	652	647	627	616	618	582
65°	466	454	429	423	423	461
75°	258	245	227	196	191	272
85°	59	61	68	67	65	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.6	1154.6	1154.6	1154.6	1154.6
2.5°	1154.6	1154.6	1149.2	1154.6	1156.4
5°	1151.0	1151.0	1145.6	1151.0	1152.8
7.5°	1145.6	1145.6	1140.2	1143.8	1147.4
10°	1136.6	1136.6	1133.0	1136.6	1138.4
12.5°	1127.6	1125.8	1122.2	1125.8	1127.6
15°	1113.2	1113.2	1109.6	1113.2	1115.0
17.5°	1098.8	1097.0	1093.4	1098.8	1100.6
20°	1080.8	1079.0	1075.4	1080.8	1084.4
22.5°	1061.0	1059.2	1057.4	1062.8	1064.6
25°	1041.2	1037.6	1035.8	1039.4	1041.2
27.5°	1015.9	1014.1	1012.3	1014.1	1015.9
30°	992.5	988.9	987.1	987.1	990.7
32.5°	963.7	961.9	960.1	961.9	961.9
35°	938.5	934.9	927.7	929.5	929.5
37.5°	907.9	902.5	897.1	897.1	897.1
40°	875.4	871.8	864.6	862.8	864.6
42.5°	841.2	837.6	830.4	825.0	826.8
45°	807.0	801.6	790.8	787.2	787.2
47.5°	771.0	765.6	753.0	747.5	749.3
50°	733.1	725.9	711.5	704.3	704.3
52.5°	693.5	686.3	671.9	662.9	662.9
55°	652.1	646.7	626.9	616.1	617.9
57.5°	605.2	599.8	580.0	567.4	567.4
60°	563.8	553.0	529.6	520.6	520.6
62.5°	517.0	504.4	481.0	470.1	471.9
65°	466.5	453.9	428.7	423.3	423.3
67.5°	416.1	405.3	381.9	372.9	363.9
70°	362.1	351.3	333.2	311.6	300.8
72.5°	311.6	299.0	282.8	250.4	239.6
75°	257.6	245.0	227.0	196.3	190.9
77.5°	205.4	194.5	169.3	162.1	165.7
80°	153.1	149.5	131.5	138.7	144.1
82.5°	102.7	100.9	104.5	108.1	108.1
85°	59.4	61.2	68.5	66.6	64.8
87.5°	25.2	30.6	28.8	28.8	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)