

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: P238746

Luminaire Tested: **14ENA-LD2-51-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238746
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-LD2-51-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3788.9 lumens
Efficiency: N/A
Efficacy: 84.8 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

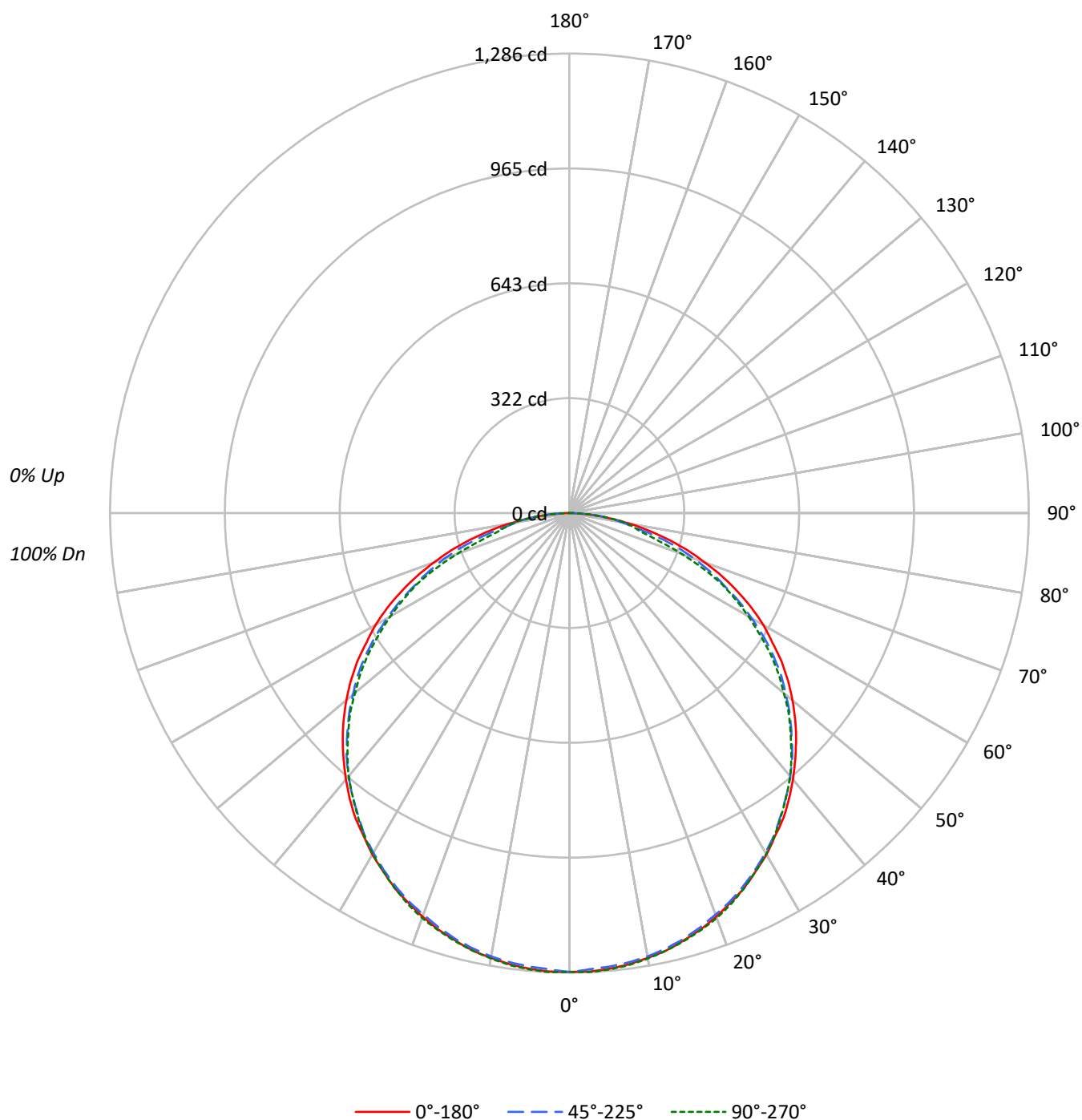
Input Watts (W): 44.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5409	5409	5409
5°	5412	5387	5421
10°	5406	5389	5415
15°	5398	5381	5407
20°	5388	5360	5406
25°	5381	5353	5381
30°	5368	5339	5359
35°	5367	5305	5315
40°	5353	5287	5287
45°	5346	5238	5214
50°	5342	5185	5133
55°	5325	5119	5046
60°	5282	4962	4877
65°	5171	4752	4692
70°	4959	4564	4119
75°	4662	4108	3455
80°	4131	3546	3888
85°	3194	3678	3484



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	3.2
10°-20°	349.2	9.2
20°-30°	532.3	14.0
30°-40°	648.2	17.1
40°-50°	681.6	18.0
50°-60°	625.6	16.5
60°-70°	480.7	12.7
70°-80°	268.3	7.1
80°-90°	81.5	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°	1003.1	26.5
0°-40°	1651.4	43.6
0°-60°	2958.6	78.1
0°-90°	3788.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3788.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1280	1280	1274	1280	1282	122
15°	1238	1238	1234	1238	1240	350
25°	1158	1154	1152	1156	1158	533
35°	1044	1040	1032	1034	1034	652
45°	898	891	879	875	875	692
55°	725	719	697	685	687	647
65°	519	505	477	471	471	513
75°	286	272	252	218	212	303
85°	66	68	76	74	72	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1284.1	1284.1	1284.1	1284.1	1284.1
2.5°	1284.1	1284.1	1278.1	1284.1	1286.1
5°	1280.1	1280.1	1274.1	1280.1	1282.1
7.5°	1274.1	1274.1	1268.1	1272.1	1276.1
10°	1264.1	1264.1	1260.0	1264.1	1266.1
12.5°	1254.0	1252.0	1248.0	1252.0	1254.0
15°	1238.0	1238.0	1234.0	1238.0	1240.0
17.5°	1222.0	1220.0	1216.0	1222.0	1224.0
20°	1202.0	1199.9	1195.9	1202.0	1206.0
22.5°	1179.9	1177.9	1175.9	1181.9	1183.9
25°	1157.9	1153.9	1151.9	1155.9	1157.9
27.5°	1129.8	1127.8	1125.8	1127.8	1129.8
30°	1103.8	1099.8	1097.8	1097.8	1101.8
32.5°	1071.7	1069.7	1067.7	1069.7	1069.7
35°	1043.7	1039.7	1031.7	1033.7	1033.7
37.5°	1009.6	1003.6	997.6	997.6	997.6
40°	973.6	969.6	961.6	959.6	961.6
42.5°	935.5	931.5	923.5	917.5	919.5
45°	897.5	891.4	879.4	875.4	875.4
47.5°	857.4	851.4	837.4	831.3	833.4
50°	815.3	807.3	791.3	783.3	783.3
52.5°	771.3	763.2	747.2	737.2	737.2
55°	725.2	719.2	697.1	685.1	687.1
57.5°	673.1	667.1	645.0	631.0	631.0
60°	627.0	615.0	589.0	578.9	578.9
62.5°	574.9	560.9	534.9	522.8	524.9
65°	518.8	504.8	476.8	470.8	470.8
67.5°	462.8	450.7	424.7	414.7	404.7
70°	402.7	390.6	370.6	346.6	334.5
72.5°	346.6	332.5	314.5	278.5	266.4
75°	286.5	272.4	252.4	218.4	212.3
77.5°	228.4	216.4	188.3	180.3	184.3
80°	170.3	166.3	146.2	154.3	160.3
82.5°	114.2	112.2	116.2	120.2	120.2
85°	66.1	68.1	76.1	74.1	72.1
87.5°	28.0	34.1	32.1	32.1	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)