

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: P238745

Luminaire Tested: **14ENA-LD2-51-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238745
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-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: 3687.3 lumens
Efficiency: N/A
Efficacy: 82.5 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

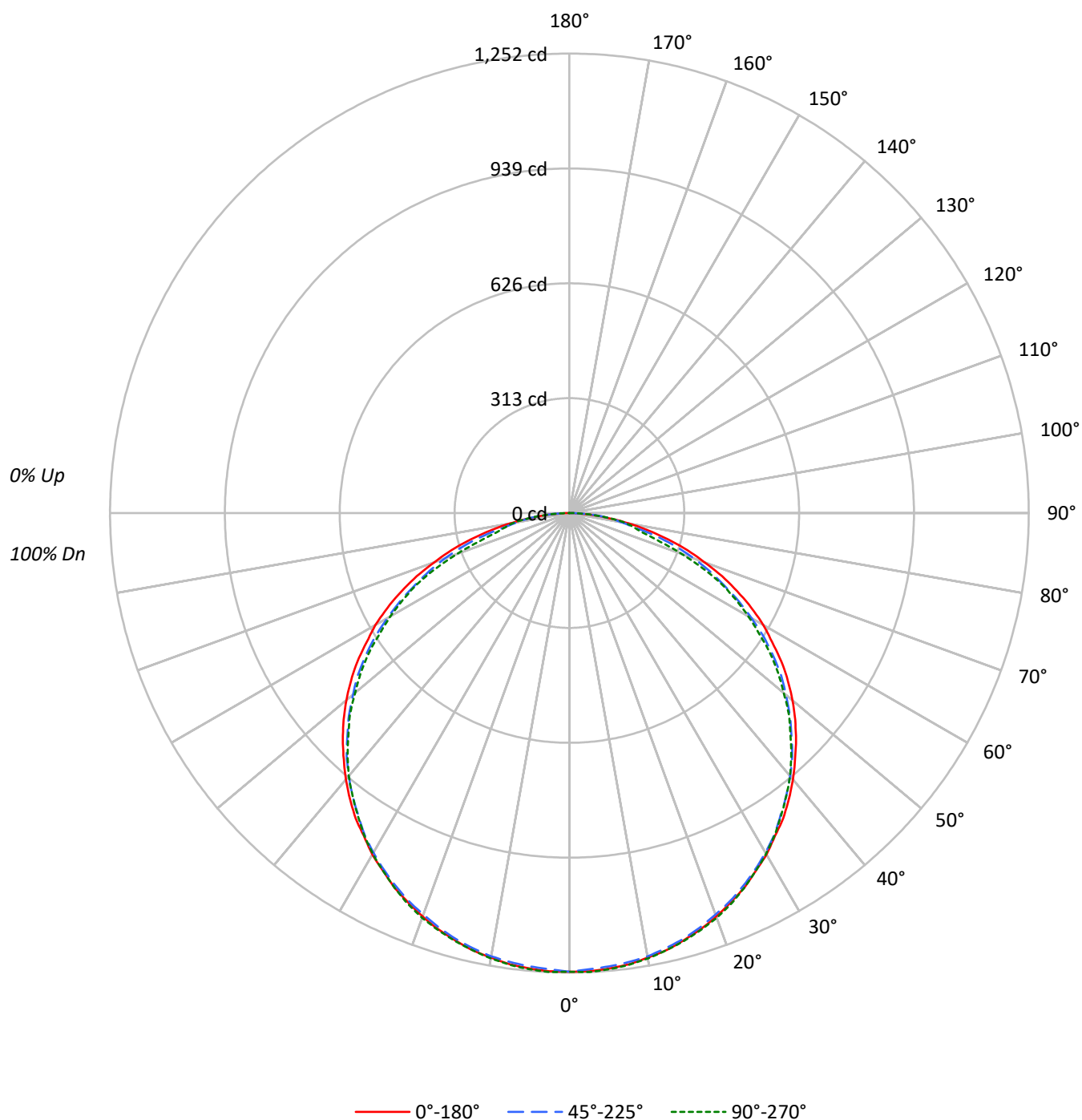
Input Watts (W): 44.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	0
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°	5263	5263	5263
5°	5267	5242	5275
10°	5261	5245	5270
15°	5254	5237	5262
20°	5243	5217	5260
25°	5237	5210	5237
30°	5224	5196	5215
35°	5223	5162	5173
40°	5210	5145	5145
45°	5203	5098	5074
50°	5200	5046	4995
55°	5182	4982	4910
60°	5140	4829	4746
65°	5032	4624	4566
70°	4826	4442	4010
75°	4537	3997	3362
80°	4019	3452	3784
85°	3107	3581	3393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	3.2
10°-20°	339.9	9.2
20°-30°	518.0	14.0
30°-40°	630.8	17.1
40°-50°	663.3	18.0
50°-60°	608.9	16.5
60°-70°	467.8	12.7
70°-80°	261.1	7.1
80°-90°	79.3	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°	976.2	26.5
0°-40°	1607.1	43.6
0°-60°	2879.2	78.1
0°-90°	3687.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3687.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1246	1246	1240	1246	1248	118
15°	1205	1205	1201	1205	1207	340
25°	1127	1123	1121	1125	1127	519
35°	1016	1012	1004	1006	1006	635
45°	873	868	856	852	852	674
55°	706	700	678	667	669	629
65°	505	491	464	458	458	499
75°	279	265	246	212	207	295
85°	64	66	74	72	70	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1249.6	1249.6	1249.6	1249.6	1249.6
2.5°	1249.6	1249.6	1243.8	1249.6	1251.6
5°	1245.7	1245.7	1239.9	1245.7	1247.7
7.5°	1239.9	1239.9	1234.0	1237.9	1241.8
10°	1230.1	1230.1	1226.3	1230.1	1232.1
12.5°	1220.4	1218.5	1214.6	1218.5	1220.4
15°	1204.8	1204.8	1200.9	1204.8	1206.8
17.5°	1189.2	1187.3	1183.4	1189.2	1191.2
20°	1169.7	1167.8	1163.9	1169.7	1173.6
22.5°	1148.3	1146.3	1144.4	1150.2	1152.2
25°	1126.8	1122.9	1121.0	1124.9	1126.8
27.5°	1099.5	1097.6	1095.6	1097.6	1099.5
30°	1074.2	1070.3	1068.3	1068.3	1072.2
32.5°	1043.0	1041.0	1039.1	1041.0	1041.0
35°	1015.7	1011.8	1004.0	1006.0	1006.0
37.5°	982.6	976.7	970.9	970.9	970.9
40°	947.5	943.6	935.8	933.8	935.8
42.5°	910.4	906.5	898.7	892.9	894.8
45°	873.4	867.5	855.8	851.9	851.9
47.5°	834.4	828.5	814.9	809.1	811.0
50°	793.5	785.7	770.1	762.3	762.3
52.5°	750.6	742.8	727.2	717.4	717.4
55°	705.7	699.9	678.4	666.7	668.7
57.5°	655.0	649.2	627.7	614.1	614.1
60°	610.2	598.5	573.2	563.4	563.4
62.5°	559.5	545.9	520.5	508.8	510.8
65°	504.9	491.3	464.0	458.1	458.1
67.5°	450.3	438.6	413.3	403.6	393.8
70°	391.9	380.2	360.7	337.3	325.6
72.5°	337.3	323.6	306.1	271.0	259.3
75°	278.8	265.1	245.6	212.5	206.6
77.5°	222.2	210.5	183.3	175.5	179.4
80°	165.7	161.8	142.3	150.1	156.0
82.5°	111.1	109.2	113.1	117.0	117.0
85°	64.3	66.3	74.1	72.1	70.2
87.5°	27.3	33.1	31.2	31.2	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)