

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: P238739

Luminaire Tested: **14ENA-LD2-43-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238739
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-L940-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3357.7 lumens
Efficiency: N/A
Efficacy: 89.3 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

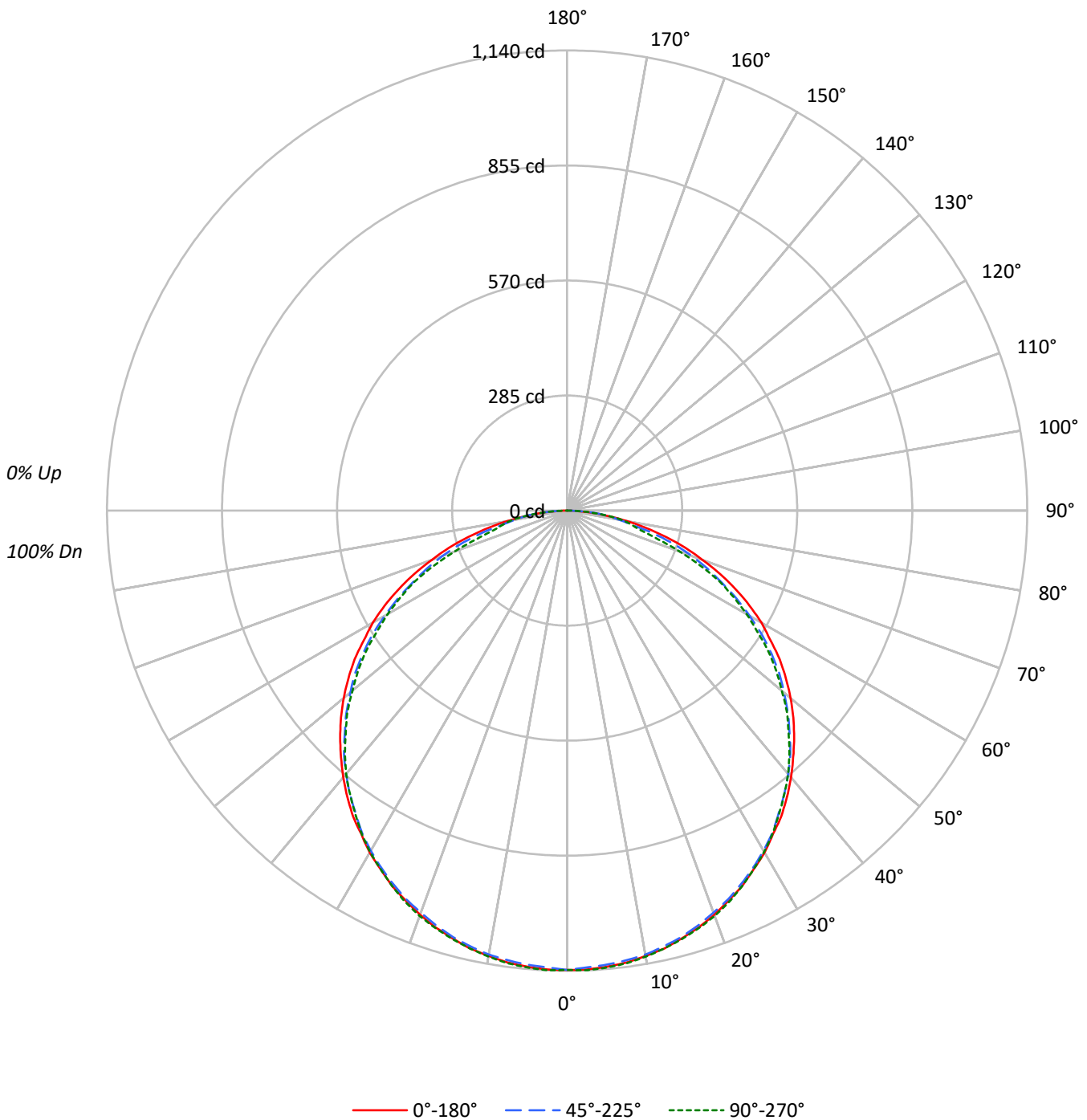
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	4793	4793	4793
5°	4796	4774	4804
10°	4791	4776	4799
15°	4784	4769	4792
20°	4775	4750	4790
25°	4769	4744	4769
30°	4758	4732	4749
35°	4756	4701	4710
40°	4744	4685	4685
45°	4737	4642	4621
50°	4734	4595	4548
55°	4720	4537	4471
60°	4681	4396	4322
65°	4583	4211	4158
70°	4394	4044	3651
75°	4132	3640	3063
80°	3660	3144	3444
85°	2832	3262	3088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	3.2
10°-20°	309.5	9.2
20°-30°	471.7	14.0
30°-40°	574.5	17.1
40°-50°	604.0	18.0
50°-60°	554.4	16.5
60°-70°	426.0	12.7
70°-80°	237.7	7.1
80°-90°	72.2	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°	889.0	26.5
0°-40°	1463.4	43.6
0°-60°	2621.9	78.1
0°-90°	3357.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3357.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1134	1134	1129	1134	1136	108
15°	1097	1097	1094	1097	1099	310
25°	1026	1023	1021	1024	1026	473
35°	925	921	914	916	916	578
45°	795	790	779	776	776	614
55°	643	637	618	607	609	573
65°	460	447	422	417	417	454
75°	254	241	224	194	188	268
85°	59	60	68	66	64	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.0	1138.0	1138.0	1138.0	1138.0
2.5°	1138.0	1138.0	1132.6	1138.0	1139.7
5°	1134.4	1134.4	1129.1	1134.4	1136.2
7.5°	1129.1	1129.1	1123.8	1127.3	1130.9
10°	1120.2	1120.2	1116.7	1120.2	1122.0
12.5°	1111.3	1109.6	1106.0	1109.6	1111.3
15°	1097.1	1097.1	1093.6	1097.1	1098.9
17.5°	1082.9	1081.1	1077.6	1082.9	1084.7
20°	1065.2	1063.4	1059.8	1065.2	1068.7
22.5°	1045.6	1043.9	1042.1	1047.4	1049.2
25°	1026.1	1022.6	1020.8	1024.3	1026.1
27.5°	1001.3	999.5	997.7	999.5	1001.3
30°	978.2	974.6	972.9	972.9	976.4
32.5°	949.8	948.0	946.2	948.0	948.0
35°	924.9	921.4	914.3	916.0	916.0
37.5°	894.7	889.4	884.1	884.1	884.1
40°	862.8	859.2	852.1	850.4	852.1
42.5°	829.1	825.5	818.4	813.1	814.9
45°	795.3	790.0	779.3	775.8	775.8
47.5°	759.8	754.5	742.1	736.7	738.5
50°	722.5	715.4	701.2	694.1	694.1
52.5°	683.5	676.4	662.2	653.3	653.3
55°	642.7	637.3	617.8	607.1	608.9
57.5°	596.5	591.2	571.6	559.2	559.2
60°	555.7	545.0	521.9	513.1	513.1
62.5°	509.5	497.1	474.0	463.3	465.1
65°	459.8	447.4	422.5	417.2	417.2
67.5°	410.1	399.4	376.4	367.5	358.6
70°	356.8	346.2	328.4	307.1	296.5
72.5°	307.1	294.7	278.7	246.8	236.1
75°	253.9	241.4	223.7	193.5	188.2
77.5°	202.4	191.7	166.9	159.8	163.3
80°	150.9	147.3	129.6	136.7	142.0
82.5°	101.2	99.4	103.0	106.5	106.5
85°	58.6	60.4	67.5	65.7	63.9
87.5°	24.9	30.2	28.4	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)