

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: P238743

Luminaire Tested: **14ENA-LD2-47-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238743
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-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: 3662.1 lumens
Efficiency: N/A
Efficacy: 88.2 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

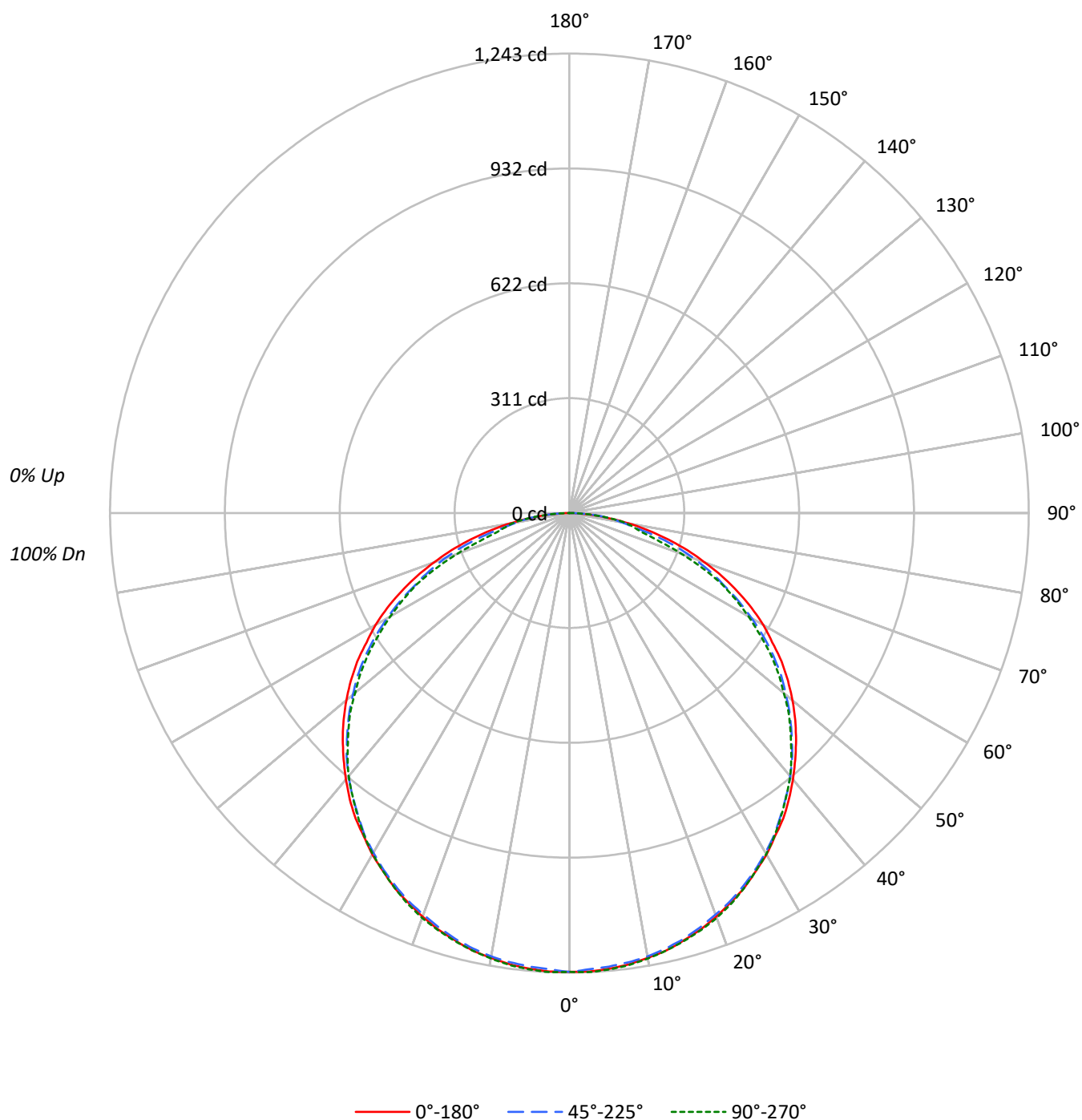
Input Watts (W): 41.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5227	5227	5227
5°	5231	5206	5239
10°	5226	5209	5234
15°	5218	5201	5226
20°	5207	5181	5225
25°	5201	5174	5201
30°	5189	5161	5179
35°	5187	5127	5137
40°	5174	5110	5110
45°	5167	5063	5040
50°	5163	5011	4961
55°	5147	4948	4877
60°	5105	4795	4714
65°	4998	4593	4535
70°	4793	4411	3981
75°	4506	3971	3339
80°	3993	3427	3757
85°	3088	3557	3368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	3.2
10°-20°	337.6	9.2
20°-30°	514.5	14.0
30°-40°	626.5	17.1
40°-50°	658.8	18.0
50°-60°	604.7	16.5
60°-70°	464.6	12.7
70°-80°	259.3	7.1
80°-90°	78.7	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°	969.6	26.5
0°-40°	1596.1	43.6
0°-60°	2859.6	78.1
0°-90°	3662.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3662.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1237	1237	1231	1237	1239	118
15°	1197	1197	1193	1197	1198	338
25°	1119	1115	1113	1117	1119	515
35°	1009	1005	997	999	999	631
45°	867	862	850	846	846	669
55°	701	695	674	662	664	625
65°	502	488	461	455	455	495
75°	277	263	244	211	205	293
85°	64	66	74	72	70	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1241.1	1241.1	1241.1	1241.1	1241.1
2.5°	1241.1	1241.1	1235.3	1241.1	1243.1
5°	1237.2	1237.2	1231.4	1237.2	1239.2
7.5°	1231.4	1231.4	1225.6	1229.5	1233.4
10°	1221.8	1221.8	1217.9	1221.8	1223.7
12.5°	1212.1	1210.1	1206.3	1210.1	1212.1
15°	1196.6	1196.6	1192.7	1196.6	1198.5
17.5°	1181.1	1179.2	1175.3	1181.1	1183.0
20°	1161.7	1159.8	1155.9	1161.7	1165.6
22.5°	1140.4	1138.5	1136.6	1142.4	1144.3
25°	1119.1	1115.3	1113.3	1117.2	1119.1
27.5°	1092.0	1090.1	1088.2	1090.1	1092.0
30°	1066.9	1063.0	1061.1	1061.1	1064.9
32.5°	1035.9	1033.9	1032.0	1033.9	1033.9
35°	1008.8	1004.9	997.2	999.1	999.1
37.5°	975.9	970.0	964.2	964.2	964.2
40°	941.0	937.1	929.4	927.5	929.4
42.5°	904.2	900.3	892.6	886.8	888.7
45°	867.4	861.6	850.0	846.1	846.1
47.5°	828.7	822.9	809.3	803.5	805.5
50°	788.0	780.3	764.8	757.1	757.1
52.5°	745.4	737.7	722.2	712.5	712.5
55°	700.9	695.1	673.8	662.2	664.1
57.5°	650.6	644.8	623.5	609.9	609.9
60°	606.0	594.4	569.2	559.6	559.6
62.5°	555.7	542.1	517.0	505.4	507.3
65°	501.5	487.9	460.8	455.0	455.0
67.5°	447.3	435.7	410.5	400.8	391.1
70°	389.2	377.6	358.2	335.0	323.3
72.5°	335.0	321.4	304.0	269.1	257.5
75°	276.9	263.3	244.0	211.0	205.2
77.5°	220.7	209.1	182.0	174.3	178.1
80°	164.6	160.7	141.3	149.1	154.9
82.5°	110.4	108.4	112.3	116.2	116.2
85°	63.9	65.8	73.6	71.6	69.7
87.5°	27.1	32.9	31.0	31.0	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)