

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: P238711

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238711
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: 14EN-LD2-47-UNV-L940-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4258.3 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

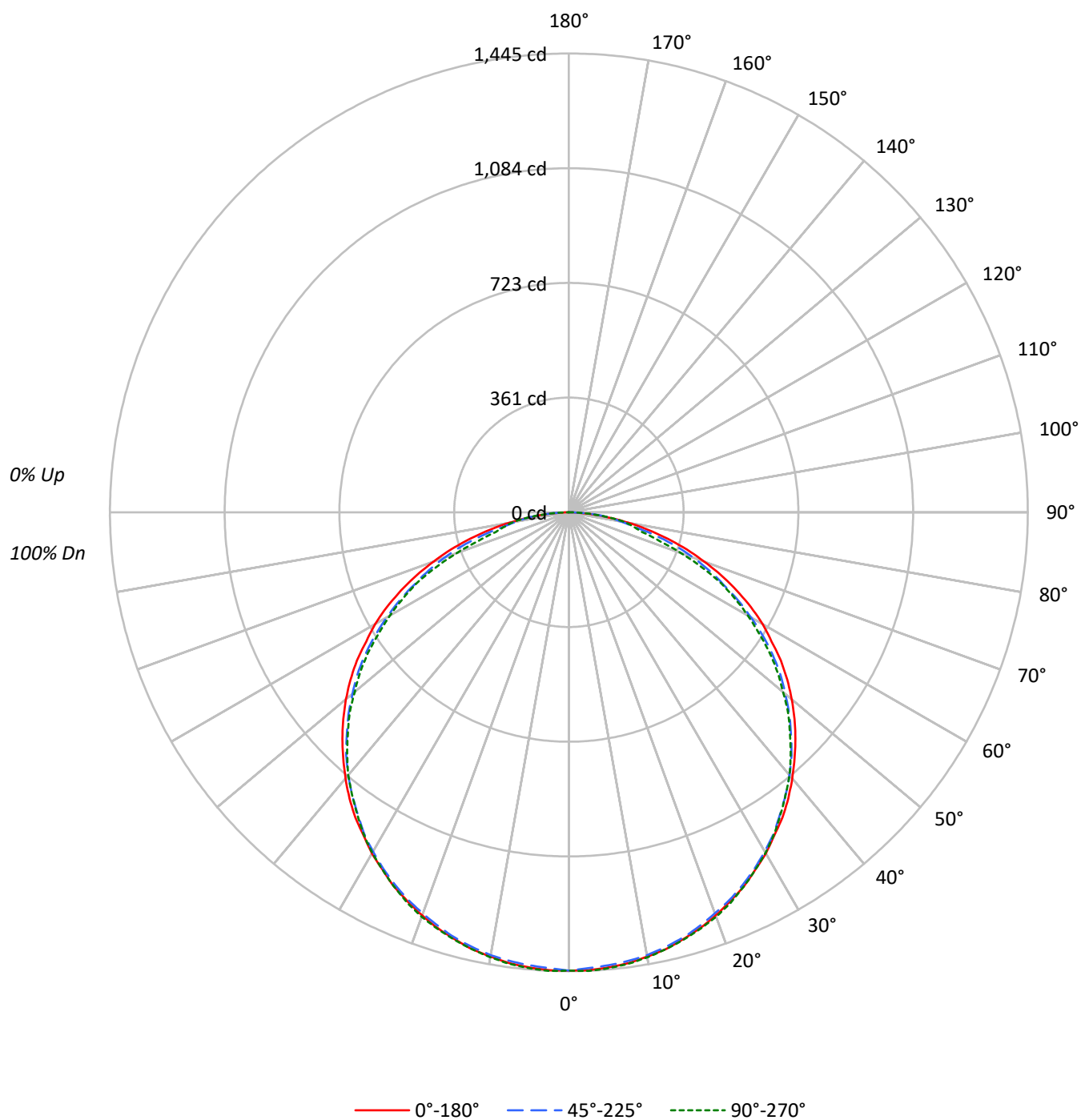
Input Watts (W): 41.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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			100
1	109	104	99	95	106	101	97	94		97	94	91			93	90	88			83
2	99	90	83	77	96	88	82	76		85	79	75			81	77	73			69
3	90	79	71	64	87	77	70	63		74	68	62			72	66	61			58
4	82	70	61	54	80	68	60	54		66	59	53			64	57	52			49
5	75	62	53	46	73	61	53	46		59	51	46			57	50	45			42
6	69	56	47	40	68	55	46	40		53	46	40			51	45	39			37
7	64	51	42	36	63	50	41	35		48	41	35			47	40	35			33
8	60	46	38	32	58	45	37	32		44	37	31			43	36	31			29
9	56	42	34	28	54	42	34	28		41	33	28			40	33	28			26
10	52	39	31	26	51	39	31	26		38	30	26			37	30	25			24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4052	4052	4052
5°	4055	4036	4061
10°	4051	4038	4057
15°	4045	4032	4051
20°	4037	4016	4050
25°	4032	4011	4032
30°	4022	4000	4015
35°	4021	3975	3982
40°	4011	3961	3961
45°	4005	3925	3907
50°	4003	3885	3846
55°	3990	3836	3780
60°	3958	3717	3654
65°	3874	3560	3515
70°	3715	3419	3087
75°	3493	3078	2590
80°	3095	2658	2912
85°	2394	2758	2613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	3.2
10°-20°	392.5	9.2
20°-30°	598.3	14.0
30°-40°	728.5	17.1
40°-50°	766.0	18.0
50°-60°	703.1	16.5
60°-70°	540.2	12.7
70°-80°	301.5	7.1
80°-90°	91.5	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°	1127.4	26.5
0°-40°	1855.9	43.6
0°-60°	3325.1	78.1
0°-90°	4258.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4258.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1443	1443	1443	1443	1443	
5°	1439	1439	1432	1439	1441	137
15°	1391	1391	1387	1391	1394	393
25°	1301	1297	1295	1299	1301	599
35°	1173	1168	1160	1162	1162	733
45°	1009	1002	988	984	984	778
55°	815	808	784	770	772	727
65°	583	567	536	529	529	576
75°	322	306	284	245	239	340
85°	74	76	86	83	81	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1443.2	1443.2	1443.2	1443.2	1443.2
2.5°	1443.2	1443.2	1436.4	1443.2	1445.4
5°	1438.7	1438.7	1431.9	1438.7	1440.9
7.5°	1431.9	1431.9	1425.2	1429.7	1434.2
10°	1420.6	1420.6	1416.1	1420.6	1422.9
12.5°	1409.4	1407.1	1402.6	1407.1	1409.4
15°	1391.4	1391.4	1386.9	1391.4	1393.6
17.5°	1373.4	1371.1	1366.6	1373.4	1375.6
20°	1350.9	1348.6	1344.1	1350.9	1355.4
22.5°	1326.1	1323.8	1321.6	1328.3	1330.6
25°	1301.3	1296.8	1294.6	1299.1	1301.3
27.5°	1269.8	1267.6	1265.3	1267.6	1269.8
30°	1240.5	1236.0	1233.8	1233.8	1238.3
32.5°	1204.5	1202.3	1200.0	1202.3	1202.3
35°	1173.0	1168.5	1159.5	1161.7	1161.7
37.5°	1134.7	1128.0	1121.2	1121.2	1121.2
40°	1094.2	1089.7	1080.7	1078.4	1080.7
42.5°	1051.4	1046.9	1037.9	1031.2	1033.4
45°	1008.6	1001.9	988.4	983.9	983.9
47.5°	963.6	956.9	941.1	934.3	936.6
50°	916.3	907.3	889.3	880.3	880.3
52.5°	866.8	857.8	839.8	828.5	828.5
55°	815.0	808.3	783.5	770.0	772.2
57.5°	756.5	749.7	725.0	709.2	709.2
60°	704.7	691.2	661.9	650.7	650.7
62.5°	646.2	630.4	601.1	587.6	589.9
65°	583.1	567.4	535.8	529.1	529.1
67.5°	520.1	506.6	477.3	466.0	454.8
70°	452.5	439.0	416.5	389.5	376.0
72.5°	389.5	373.7	353.5	312.9	299.4
75°	322.0	306.2	283.7	245.4	238.7
77.5°	256.7	243.2	211.6	202.6	207.1
80°	191.4	186.9	164.4	173.4	180.1
82.5°	128.3	126.1	130.6	135.1	135.1
85°	74.3	76.5	85.6	83.3	81.1
87.5°	31.5	38.3	36.0	36.0	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)