

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: P238710

Luminaire Tested: **14EN-LD2-47-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238710
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-L935-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4070.8 lumens
Efficiency: N/A
Efficacy: 98.1 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

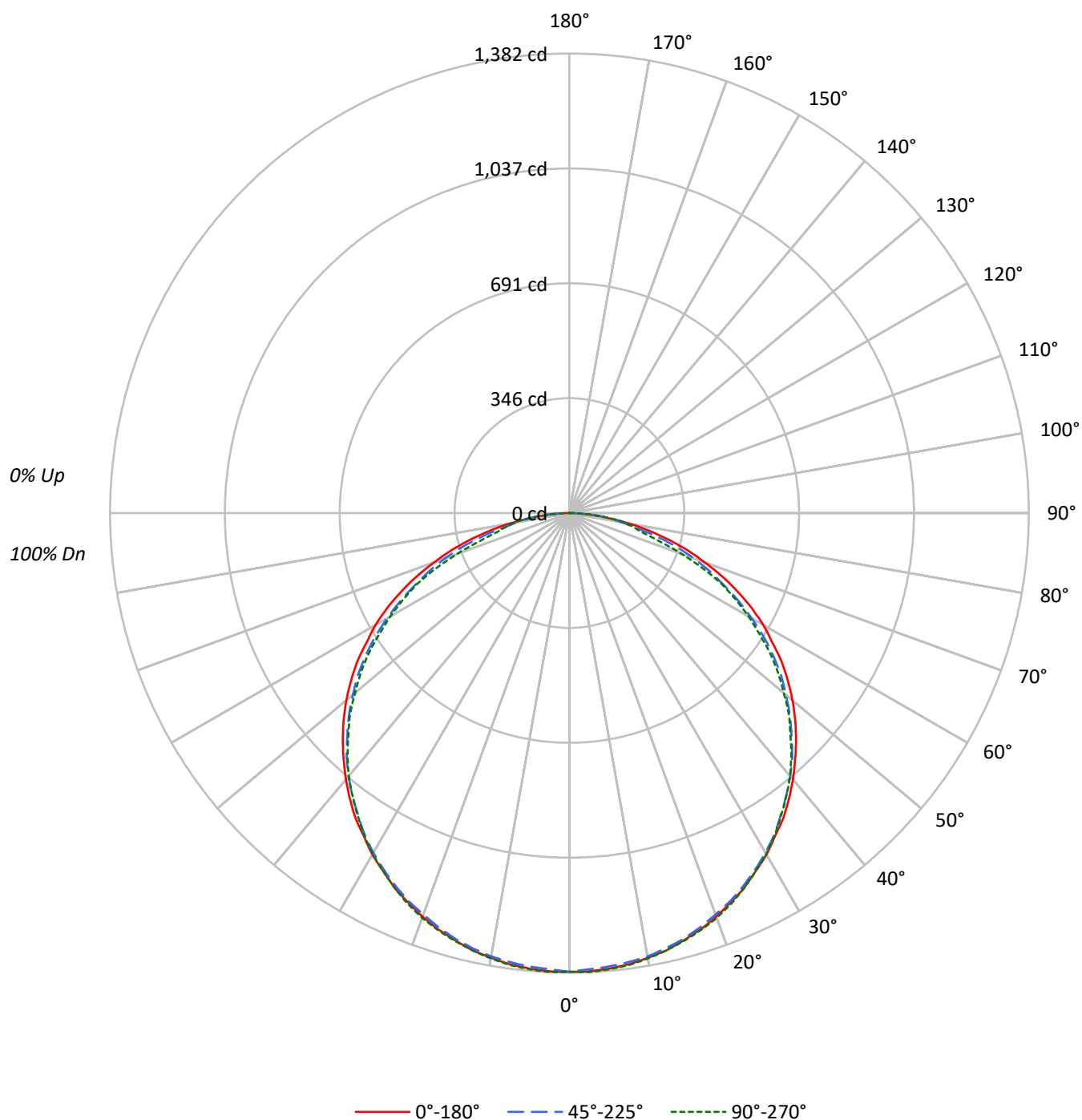
Input Watts (W): 41.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
RW	70	50	30	10	70	50	30	10	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	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°	3874	3874	3874
5°	3877	3859	3883
10°	3872	3860	3878
15°	3867	3854	3873
20°	3859	3840	3872
25°	3854	3834	3854
30°	3845	3824	3838
35°	3844	3799	3807
40°	3834	3787	3787
45°	3829	3752	3735
50°	3827	3714	3676
55°	3814	3667	3614
60°	3783	3554	3493
65°	3704	3403	3361
70°	3552	3269	2951
75°	3339	2942	2475
80°	2958	2540	2785
85°	2287	2635	2497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	3.2
10°-20°	375.2	9.2
20°-30°	571.9	14.0
30°-40°	696.4	17.1
40°-50°	732.3	18.0
50°-60°	672.2	16.5
60°-70°	516.4	12.7
70°-80°	288.2	7.1
80°-90°	87.5	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°	1077.8	26.5
0°-40°	1774.2	43.6
0°-60°	3178.7	78.1
0°-90°	4070.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4070.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1375	1375	1369	1375	1378	131
15°	1330	1330	1326	1330	1332	376
25°	1244	1240	1238	1242	1244	573
35°	1121	1117	1108	1111	1111	701
45°	964	958	945	940	940	744
55°	779	773	749	736	738	695
65°	557	542	512	506	506	551
75°	308	293	271	235	228	325
85°	71	73	82	80	78	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1379.6	1379.6	1379.6	1379.6	1379.6
2.5°	1379.6	1379.6	1373.2	1379.6	1381.8
5°	1375.3	1375.3	1368.9	1375.3	1377.5
7.5°	1368.9	1368.9	1362.4	1366.7	1371.0
10°	1358.1	1358.1	1353.8	1358.1	1360.2
12.5°	1347.3	1345.2	1340.9	1345.2	1347.3
15°	1330.1	1330.1	1325.8	1330.1	1332.3
17.5°	1312.9	1310.7	1306.4	1312.9	1315.0
20°	1291.4	1289.2	1284.9	1291.4	1295.7
22.5°	1267.7	1265.5	1263.4	1269.8	1272.0
25°	1244.0	1239.7	1237.6	1241.9	1244.0
27.5°	1213.9	1211.7	1209.6	1211.7	1213.9
30°	1185.9	1181.6	1179.5	1179.5	1183.8
32.5°	1151.5	1149.3	1147.2	1149.3	1149.3
35°	1121.3	1117.0	1108.4	1110.6	1110.6
37.5°	1084.8	1078.3	1071.8	1071.8	1071.8
40°	1046.0	1041.7	1033.1	1030.9	1033.1
42.5°	1005.1	1000.8	992.2	985.7	987.9
45°	964.2	957.8	944.9	940.5	940.5
47.5°	921.2	914.7	899.7	893.2	895.3
50°	876.0	867.4	850.2	841.5	841.5
52.5°	828.6	820.0	802.8	792.0	792.0
55°	779.1	772.7	749.0	736.1	738.2
57.5°	723.2	716.7	693.0	678.0	678.0
60°	673.7	660.8	632.8	622.0	622.0
62.5°	617.7	602.6	574.7	561.7	563.9
65°	557.4	542.4	512.2	505.8	505.8
67.5°	497.2	484.3	456.3	445.5	434.8
70°	432.6	419.7	398.2	372.3	359.4
72.5°	372.3	357.3	337.9	299.2	286.3
75°	307.8	292.7	271.2	234.6	228.1
77.5°	245.4	232.4	202.3	193.7	198.0
80°	182.9	178.6	157.1	165.7	172.2
82.5°	122.7	120.5	124.8	129.1	129.1
85°	71.0	73.2	81.8	79.6	77.5
87.5°	30.1	36.6	34.4	34.4	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)