

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: P238749

Luminaire Tested: **14EN-LD2-18-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238749
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-LD2-18-UNV-L830-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1800.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

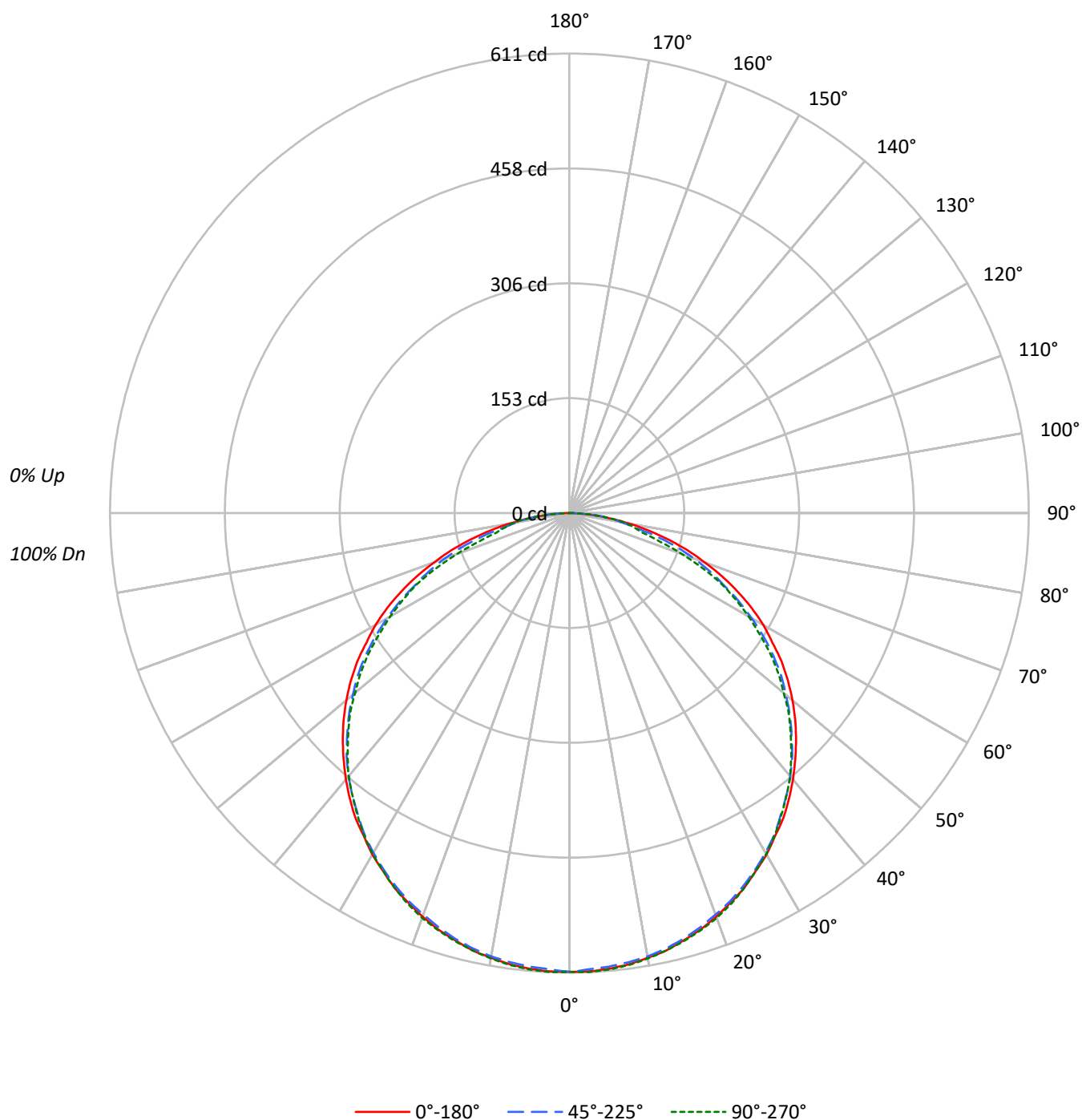
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1713	1713	1713
5°	1714	1706	1717
10°	1712	1707	1715
15°	1710	1704	1713
20°	1706	1698	1712
25°	1704	1695	1704
30°	1700	1691	1697
35°	1700	1680	1683
40°	1695	1674	1674
45°	1693	1659	1652
50°	1692	1642	1625
55°	1687	1621	1598
60°	1673	1571	1544
65°	1638	1505	1486
70°	1571	1446	1305
75°	1477	1301	1095
80°	1308	1124	1231
85°	1012	1166	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	3.2
10°-20°	165.9	9.2
20°-30°	252.9	14.0
30°-40°	307.9	17.1
40°-50°	323.8	18.0
50°-60°	297.2	16.5
60°-70°	228.3	12.7
70°-80°	127.5	7.1
80°-90°	38.7	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°	476.5	26.5
0°-40°	784.5	43.6
0°-60°	1405.5	78.1
0°-90°	1800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	608	608	605	608	609	58
15°	588	588	586	588	589	166
25°	550	548	547	549	550	253
35°	496	494	490	491	491	310
45°	426	424	418	416	416	329
55°	344	342	331	326	326	307
65°	246	240	226	224	224	244
75°	136	129	120	104	101	144
85°	31	32	36	35	34	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	610.0	610.0	610.0	610.0	610.0
2.5°	610.0	610.0	607.2	610.0	611.0
5°	608.1	608.1	605.3	608.1	609.1
7.5°	605.3	605.3	602.4	604.3	606.2
10°	600.5	600.5	598.6	600.5	601.4
12.5°	595.7	594.8	592.9	594.8	595.7
15°	588.1	588.1	586.2	588.1	589.1
17.5°	580.5	579.6	577.7	580.5	581.5
20°	571.0	570.0	568.1	571.0	572.9
22.5°	560.5	559.6	558.6	561.5	562.4
25°	550.1	548.2	547.2	549.1	550.1
27.5°	536.7	535.8	534.8	535.8	536.7
30°	524.4	522.5	521.5	521.5	523.4
32.5°	509.1	508.2	507.2	508.2	508.2
35°	495.8	493.9	490.1	491.1	491.1
37.5°	479.6	476.8	473.9	473.9	473.9
40°	462.5	460.6	456.8	455.8	456.8
42.5°	444.4	442.5	438.7	435.9	436.8
45°	426.3	423.5	417.8	415.9	415.9
47.5°	407.3	404.5	397.8	394.9	395.9
50°	387.3	383.5	375.9	372.1	372.1
52.5°	366.4	362.6	355.0	350.2	350.2
55°	344.5	341.6	331.2	325.5	326.4
57.5°	319.8	316.9	306.4	299.8	299.8
60°	297.9	292.2	279.8	275.0	275.0
62.5°	273.1	266.5	254.1	248.4	249.3
65°	246.5	239.8	226.5	223.6	223.6
67.5°	219.8	214.1	201.8	197.0	192.2
70°	191.3	185.6	176.1	164.6	158.9
72.5°	164.6	158.0	149.4	132.3	126.6
75°	136.1	129.4	119.9	103.7	100.9
77.5°	108.5	102.8	89.5	85.6	87.6
80°	80.9	79.0	69.5	73.3	76.1
82.5°	54.2	53.3	55.2	57.1	57.1
85°	31.4	32.4	36.2	35.2	34.3
87.5°	13.3	16.2	15.2	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)