

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: P238751

Luminaire Tested: **14EN-LD2-18-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238751
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-L840-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1893.1 lumens
Efficiency: N/A
Efficacy: 118.3 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

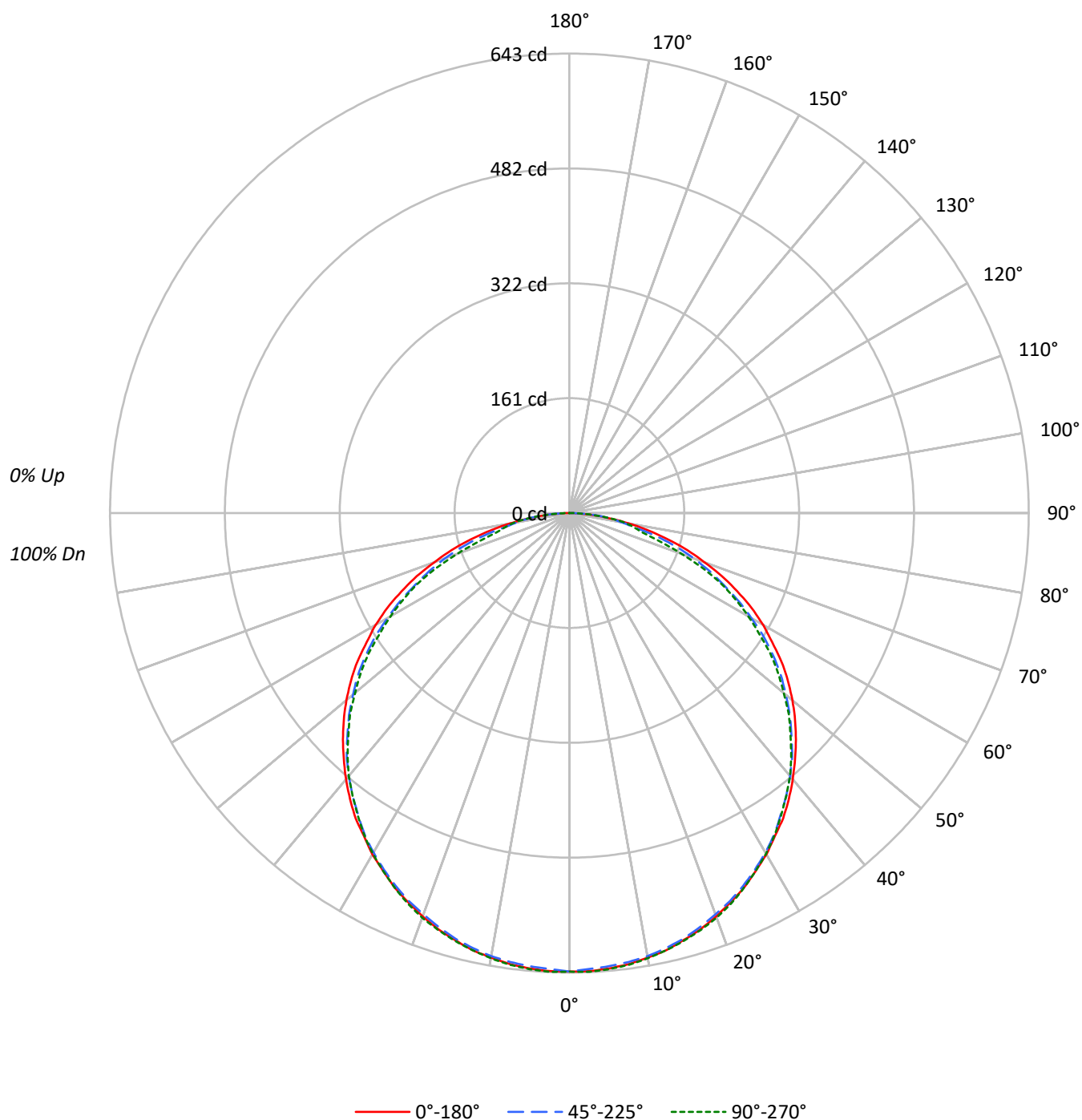
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1802	1802	1802
5°	1803	1794	1806
10°	1801	1795	1804
15°	1798	1792	1801
20°	1794	1785	1801
25°	1792	1783	1792
30°	1788	1778	1785
35°	1788	1767	1771
40°	1783	1761	1761
45°	1781	1745	1737
50°	1780	1727	1710
55°	1774	1705	1681
60°	1759	1653	1625
65°	1722	1583	1563
70°	1652	1520	1373
75°	1553	1368	1151
80°	1376	1182	1295
85°	1063	1224	1160



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	3.2
10°-20°	174.5	9.2
20°-30°	266.0	14.0
30°-40°	323.9	17.1
40°-50°	340.5	18.0
50°-60°	312.6	16.5
60°-70°	240.2	12.7
70°-80°	134.1	7.1
80°-90°	40.7	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°	501.2	26.5
0°-40°	825.1	43.6
0°-60°	1478.2	78.1
0°-90°	1893.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1893.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	640	640	637	640	641	61
15°	619	619	617	619	620	175
25°	578	576	576	578	578	266
35°	522	520	516	516	516	326
45°	448	445	439	437	437	346
55°	362	359	348	342	343	323
65°	259	252	238	235	235	256
75°	143	136	126	109	106	151
85°	33	34	38	37	36	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	641.6	641.6	641.6	641.6	641.6
2.5°	641.6	641.6	638.6	641.6	642.6
5°	639.6	639.6	636.6	639.6	640.6
7.5°	636.6	636.6	633.6	635.6	637.6
10°	631.6	631.6	629.6	631.6	632.6
12.5°	626.6	625.6	623.6	625.6	626.6
15°	618.6	618.6	616.6	618.6	619.6
17.5°	610.6	609.6	607.6	610.6	611.6
20°	600.5	599.5	597.5	600.5	602.6
22.5°	589.5	588.5	587.5	590.5	591.5
25°	578.5	576.5	575.5	577.5	578.5
27.5°	564.5	563.5	562.5	563.5	564.5
30°	551.5	549.5	548.5	548.5	550.5
32.5°	535.5	534.5	533.5	534.5	534.5
35°	521.5	519.5	515.5	516.5	516.5
37.5°	504.5	501.5	498.5	498.5	498.5
40°	486.4	484.4	480.4	479.4	480.4
42.5°	467.4	465.4	461.4	458.4	459.4
45°	448.4	445.4	439.4	437.4	437.4
47.5°	428.4	425.4	418.4	415.4	416.4
50°	407.4	403.4	395.4	391.4	391.4
52.5°	385.4	381.3	373.3	368.3	368.3
55°	362.3	359.3	348.3	342.3	343.3
57.5°	336.3	333.3	322.3	315.3	315.3
60°	313.3	307.3	294.3	289.3	289.3
62.5°	287.3	280.3	267.2	261.2	262.2
65°	259.2	252.2	238.2	235.2	235.2
67.5°	231.2	225.2	212.2	207.2	202.2
70°	201.2	195.2	185.2	173.2	167.2
72.5°	173.2	166.2	157.1	139.1	133.1
75°	143.1	136.1	126.1	109.1	106.1
77.5°	114.1	108.1	94.1	90.1	92.1
80°	85.1	83.1	73.1	77.1	80.1
82.5°	57.1	56.1	58.1	60.1	60.1
85°	33.0	34.0	38.0	37.0	36.0
87.5°	14.0	17.0	16.0	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)