

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: P238688

Luminaire Tested: **14EN-LD2-18-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238688
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-L950-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1771.7 lumens
Efficiency: N/A
Efficacy: 110.7 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

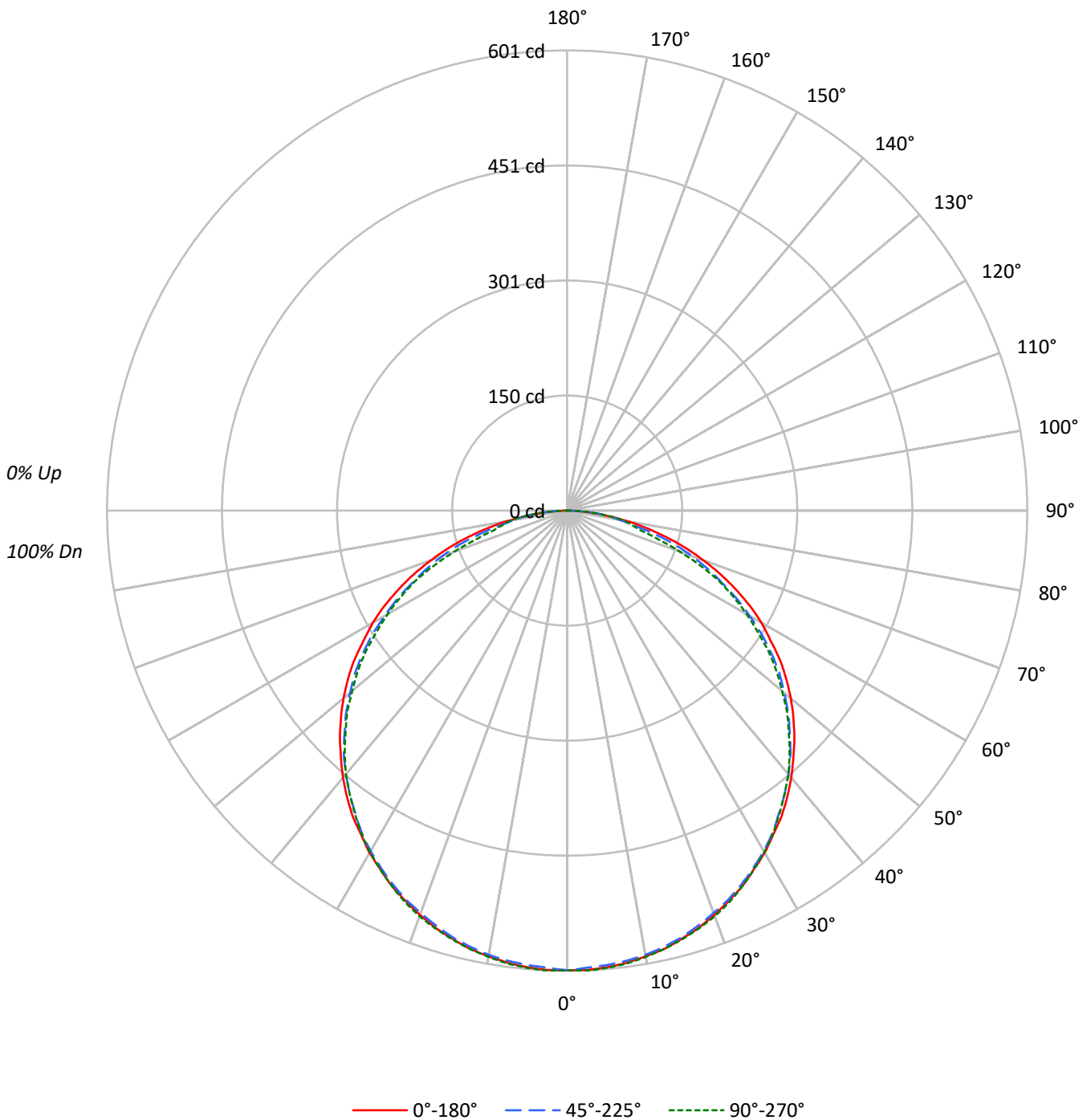
Input Watts (W): 16
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	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°	1686	1686	1686
5°	1687	1679	1690
10°	1685	1680	1688
15°	1683	1677	1685
20°	1679	1671	1685
25°	1677	1669	1677
30°	1673	1664	1670
35°	1673	1654	1657
40°	1669	1648	1648
45°	1667	1633	1626
50°	1666	1616	1600
55°	1660	1596	1573
60°	1647	1547	1520
65°	1612	1481	1462
70°	1546	1423	1284
75°	1454	1280	1077
80°	1287	1106	1211
85°	996	1147	1086



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	3.2
10°-20°	163.3	9.2
20°-30°	248.9	14.0
30°-40°	303.1	17.1
40°-50°	318.7	18.0
50°-60°	292.5	16.5
60°-70°	224.8	12.7
70°-80°	125.5	7.1
80°-90°	38.1	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°	469.1	26.5
0°-40°	772.2	43.6
0°-60°	1383.4	78.1
0°-90°	1771.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1771.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	600	600	600	600	600	
5°	599	599	596	599	600	57
15°	579	579	577	579	580	164
25°	541	540	539	540	541	249
35°	488	486	482	483	483	305
45°	420	417	411	409	409	324
55°	339	336	326	320	321	302
65°	243	236	223	220	220	240
75°	134	127	118	102	99	142
85°	31	32	36	35	34	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	600.4	600.4	600.4	600.4	600.4
2.5°	600.4	600.4	597.6	600.4	601.4
5°	598.6	598.6	595.8	598.6	599.5
7.5°	595.8	595.8	593.0	594.8	596.7
10°	591.1	591.1	589.2	591.1	592.0
12.5°	586.4	585.5	583.6	585.5	586.4
15°	578.9	578.9	577.0	578.9	579.8
17.5°	571.4	570.5	568.6	571.4	572.3
20°	562.0	561.1	559.2	562.0	563.9
22.5°	551.7	550.8	549.9	552.7	553.6
25°	541.4	539.6	538.6	540.5	541.4
27.5°	528.3	527.4	526.4	527.4	528.3
30°	516.1	514.3	513.3	513.3	515.2
32.5°	501.2	500.2	499.3	500.2	500.2
35°	488.0	486.2	482.4	483.4	483.4
37.5°	472.1	469.3	466.5	466.5	466.5
40°	455.3	453.4	449.6	448.7	449.6
42.5°	437.5	435.6	431.8	429.0	430.0
45°	419.7	416.8	411.2	409.4	409.4
47.5°	400.9	398.1	391.6	388.7	389.7
50°	381.3	377.5	370.0	366.3	366.3
52.5°	360.6	356.9	349.4	344.7	344.7
55°	339.1	336.3	326.0	320.4	321.3
57.5°	314.7	311.9	301.6	295.1	295.1
60°	293.2	287.6	275.4	270.7	270.7
62.5°	268.8	262.3	250.1	244.5	245.4
65°	242.6	236.1	222.9	220.1	220.1
67.5°	216.4	210.8	198.6	193.9	189.2
70°	188.3	182.7	173.3	162.1	156.4
72.5°	162.1	155.5	147.1	130.2	124.6
75°	134.0	127.4	118.0	102.1	99.3
77.5°	106.8	101.2	88.1	84.3	86.2
80°	79.6	77.7	68.4	72.1	74.9
82.5°	53.4	52.5	54.3	56.2	56.2
85°	30.9	31.8	35.6	34.7	33.7
87.5°	13.1	15.9	15.0	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)