

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: P238656

Luminaire Tested: **14ENA-LD2-18-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238656
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: 14ENA-LD2-18-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)5000K CCT, 80 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 0.67' x L: 3.83' x H: 0')
CIE Type: Direct

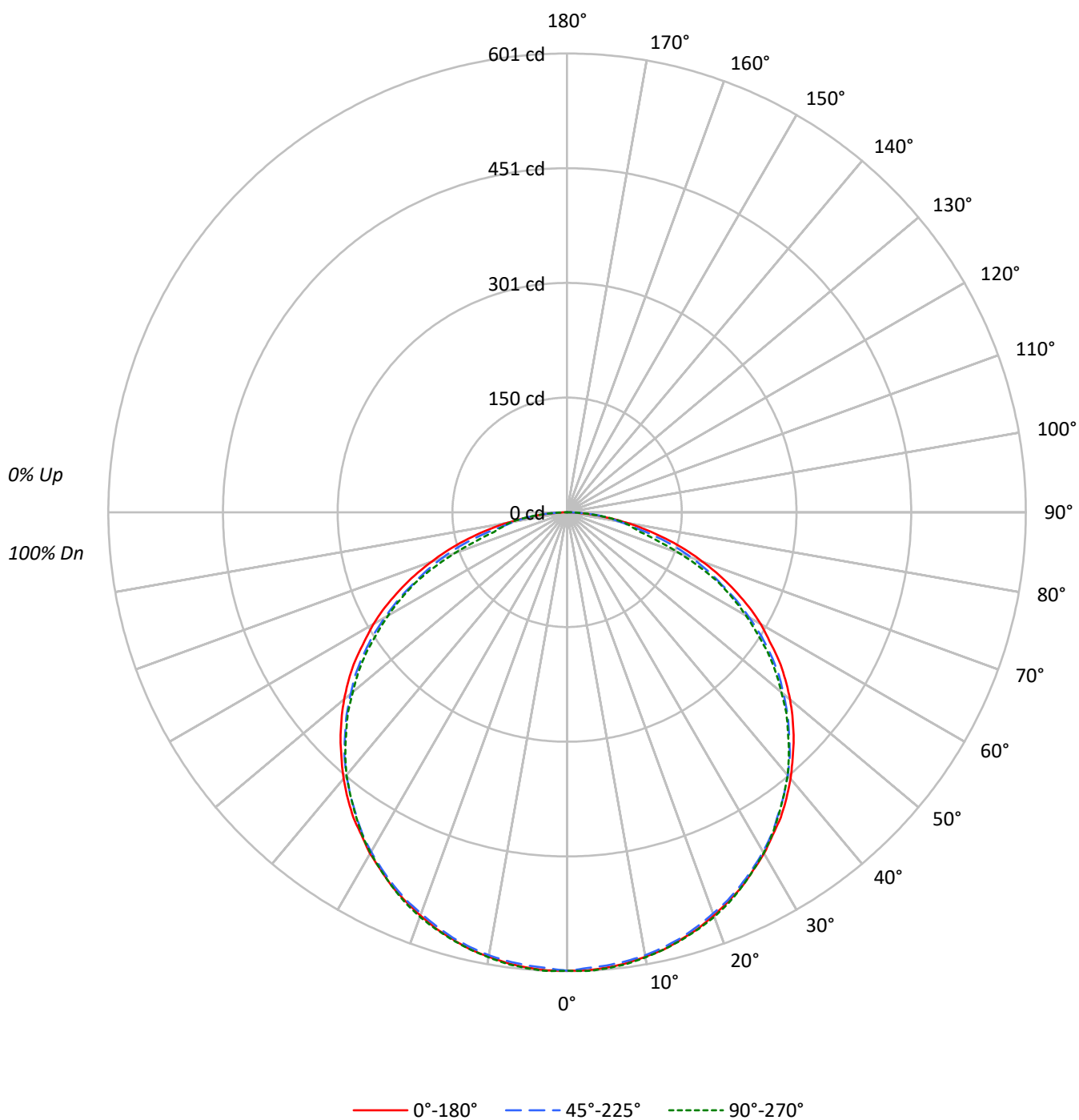
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2529	2529	2529
5°	2531	2519	2535
10°	2528	2520	2532
15°	2524	2516	2528
20°	2519	2506	2528
25°	2516	2503	2516
30°	2510	2496	2506
35°	2509	2480	2486
40°	2503	2472	2472
45°	2500	2449	2439
50°	2499	2424	2400
55°	2490	2394	2359
60°	2470	2320	2280
65°	2418	2222	2194
70°	2319	2134	1926
75°	2181	1920	1616
80°	1931	1659	1817
85°	1493	1720	1629



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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)