

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: P238721

Luminaire Tested: **14ENA-LD2-25-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238721
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-LD2-25-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1806.6 lumens
Efficiency: N/A
Efficacy: 86.4 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

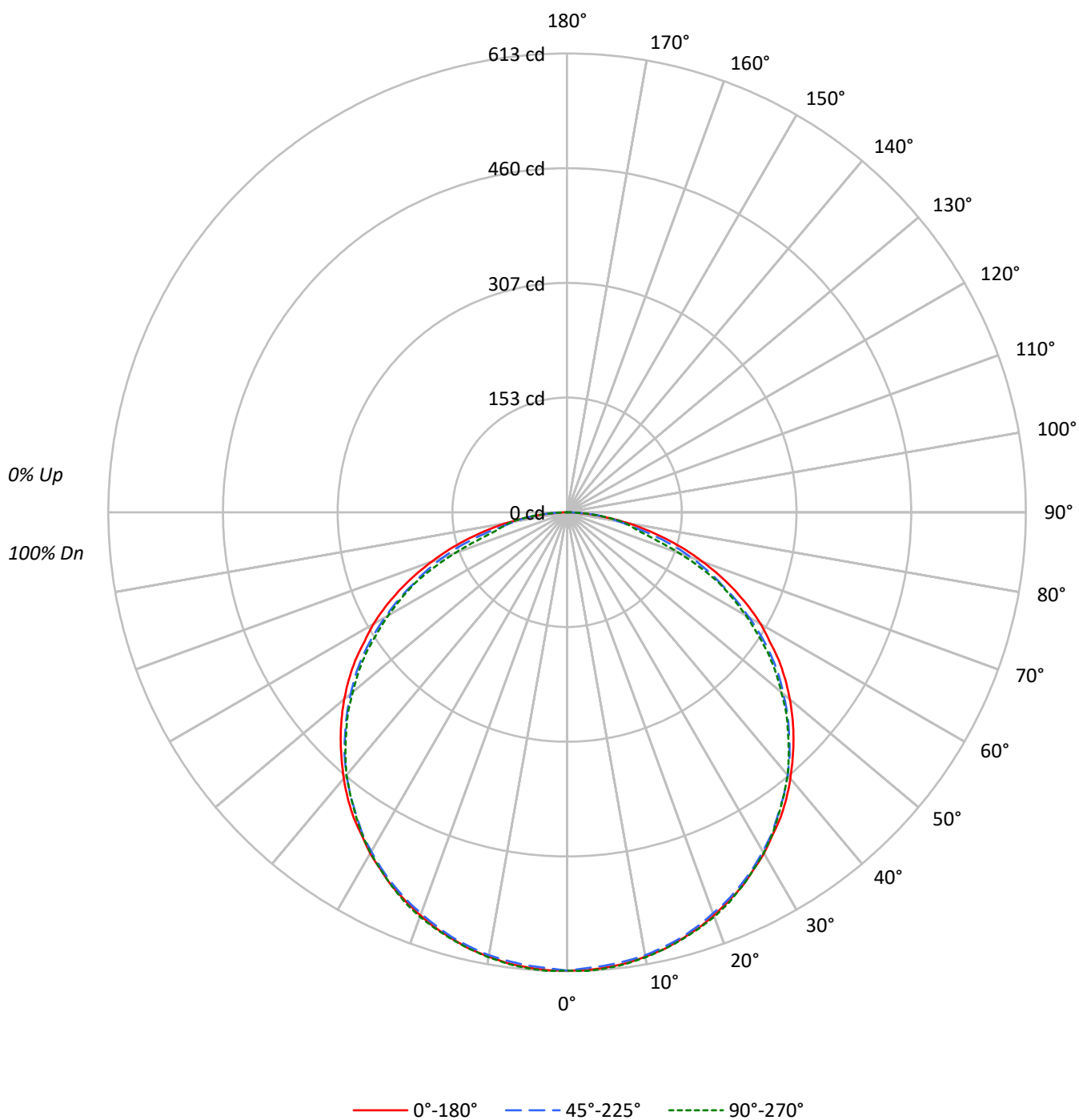
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2579	2579	2579
5°	2580	2569	2585
10°	2578	2570	2582
15°	2574	2566	2578
20°	2569	2556	2577
25°	2566	2552	2566
30°	2560	2546	2555
35°	2559	2529	2534
40°	2552	2521	2521
45°	2549	2498	2486
50°	2547	2472	2447
55°	2539	2441	2406
60°	2519	2365	2325
65°	2466	2265	2237
70°	2364	2176	1964
75°	2223	1958	1647
80°	1970	1691	1853
85°	1522	1754	1662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	3.2
10°-20°	166.5	9.2
20°-30°	253.8	14.0
30°-40°	309.1	17.1
40°-50°	325.0	18.0
50°-60°	298.3	16.5
60°-70°	229.2	12.7
70°-80°	127.9	7.1
80°-90°	38.8	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°	478.3	26.5
0°-40°	787.4	43.6
0°-60°	1410.6	78.1
0°-90°	1806.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1806.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	610	610	608	610	611	58
15°	590	590	588	590	591	167
25°	552	550	549	551	552	254
35°	498	496	492	493	493	311
45°	428	425	419	417	417	330
55°	346	343	332	327	328	308
65°	247	241	227	224	224	244
75°	137	130	120	104	101	144
85°	32	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°	612.2	612.2	612.2	612.2	612.2
2.5°	612.2	612.2	609.4	612.2	613.2
5°	610.3	610.3	607.5	610.3	611.3
7.5°	607.5	607.5	604.6	606.5	608.4
10°	602.7	602.7	600.8	602.7	603.6
12.5°	597.9	597.0	595.1	597.0	597.9
15°	590.3	590.3	588.4	590.3	591.2
17.5°	582.6	581.7	579.8	582.6	583.6
20°	573.1	572.1	570.2	573.1	575.0
22.5°	562.6	561.6	560.7	563.5	564.5
25°	552.1	550.2	549.2	551.1	552.1
27.5°	538.7	537.7	536.8	537.7	538.7
30°	526.3	524.4	523.4	523.4	525.3
32.5°	511.0	510.0	509.1	510.0	510.0
35°	497.6	495.7	491.9	492.9	492.9
37.5°	481.4	478.5	475.7	475.7	475.7
40°	464.2	462.3	458.5	457.5	458.5
42.5°	446.1	444.1	440.3	437.5	438.4
45°	427.9	425.0	419.3	417.4	417.4
47.5°	408.8	405.9	399.2	396.4	397.3
50°	388.7	384.9	377.3	373.5	373.5
52.5°	367.7	363.9	356.3	351.5	351.5
55°	345.8	342.9	332.4	326.7	327.6
57.5°	320.9	318.1	307.6	300.9	300.9
60°	299.0	293.2	280.8	276.0	276.0
62.5°	274.1	267.4	255.0	249.3	250.2
65°	247.4	240.7	227.3	224.5	224.5
67.5°	220.6	214.9	202.5	197.7	192.9
70°	192.0	186.3	176.7	165.2	159.5
72.5°	165.2	158.6	150.0	132.8	127.0
75°	136.6	129.9	120.3	104.1	101.2
77.5°	108.9	103.2	89.8	86.0	87.9
80°	81.2	79.3	69.7	73.5	76.4
82.5°	54.4	53.5	55.4	57.3	57.3
85°	31.5	32.5	36.3	35.3	34.4
87.5°	13.4	16.2	15.3	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)