

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: P238813

Luminaire Tested: **22ENA-LD2-30-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-118-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ENA-LD2-30-UNV-L830-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

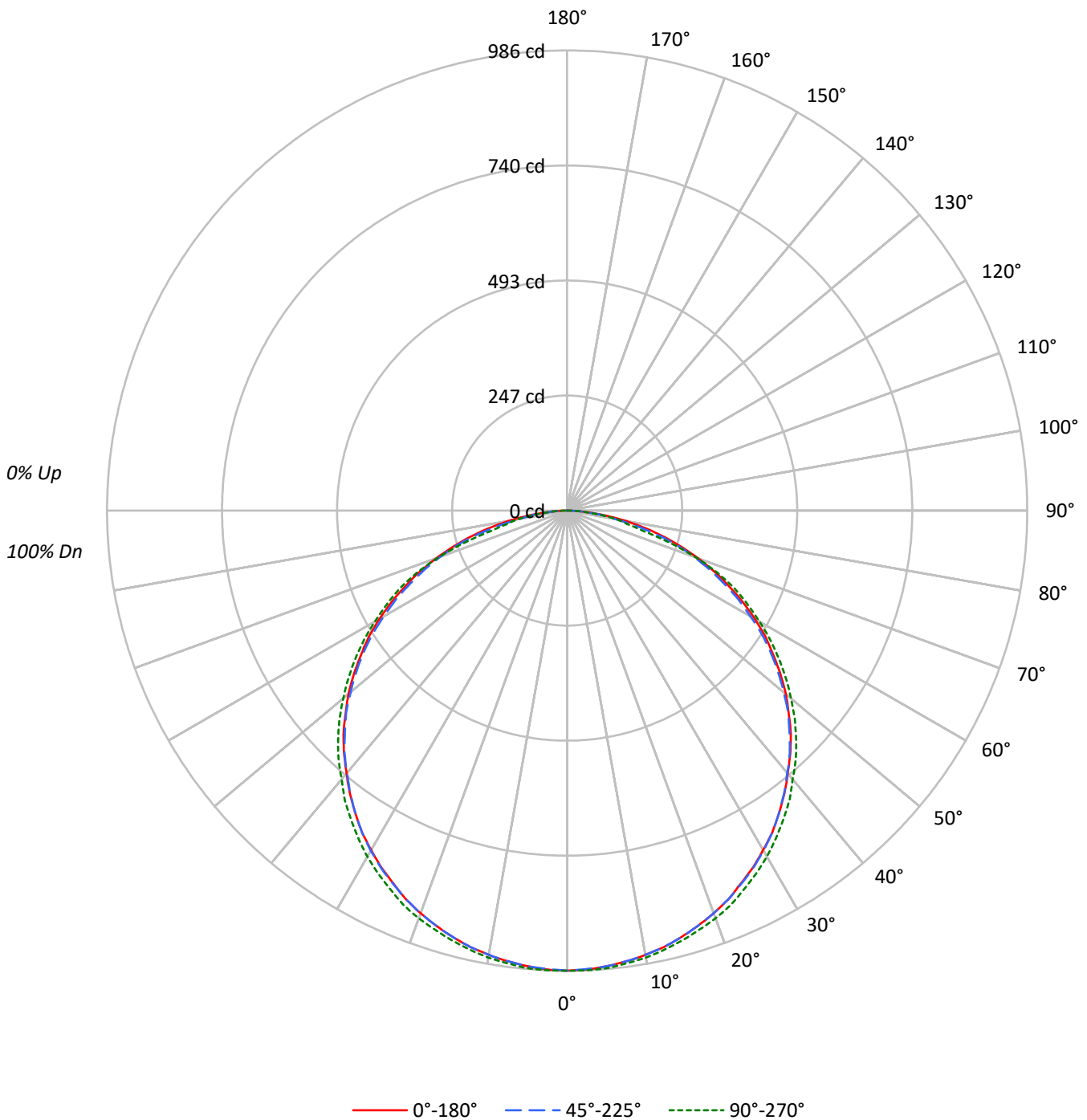
Lumens per Lamp: N/A
Luminaire Lumens: 2910.3 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.9
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				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	98	94	97	94	91	93	91	88	90	88	86	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	39	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°	3473	3473	3473
5°	3465	3465	3481
10°	3458	3458	3479
15°	3450	3450	3477
20°	3442	3442	3486
25°	3426	3431	3483
30°	3417	3423	3483
35°	3403	3403	3473
40°	3382	3375	3456
45°	3377	3355	3458
50°	3352	3319	3432
55°	3313	3277	3403
60°	3271	3198	3354
65°	3182	3096	3304
70°	3066	2975	3021
75°	2888	2707	2307
80°	2542	2122	2213
85°	1847	1787	1726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.2
10°-20°	267.6	9.2
20°-30°	408.6	14.0
30°-40°	497.6	17.1
40°-50°	523.8	18.0
50°-60°	482.2	16.6
60°-70°	375.4	12.9
70°-80°	208.3	7.2
80°-90°	53.5	1.8
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°	769.4	26.4
0°-40°	1267.0	43.5
0°-60°	2273.1	78.1
0°-90°	2910.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2910.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	980	980	980	983	984	93
15°	946	946	946	950	954	267
25°	881	883	883	890	896	407
35°	791	791	791	800	808	495
45°	678	674	674	684	694	522
55°	539	538	534	542	554	483
65°	382	377	371	383	396	378
75°	212	208	199	177	170	224
85°	46	43	44	43	43	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	985.9	985.9	985.9	985.9	985.9
2.5°	984.4	983.0	983.0	985.9	985.9
5°	980.0	980.0	980.0	983.0	984.4
7.5°	974.1	974.1	974.1	978.5	978.5
10°	966.7	965.3	966.7	969.7	972.6
12.5°	957.9	956.4	957.9	960.9	963.8
15°	946.1	946.1	946.1	950.5	953.5
17.5°	932.9	931.4	932.9	937.3	941.7
20°	918.1	918.1	918.1	924.0	929.9
22.5°	901.9	900.4	901.9	909.3	915.2
25°	881.3	882.7	882.7	890.1	896.0
27.5°	862.1	860.6	863.6	869.5	876.9
30°	840.0	840.0	841.5	848.9	856.2
32.5°	817.9	816.4	817.9	825.3	832.6
35°	791.4	791.4	791.4	800.2	807.6
37.5°	764.8	763.4	763.4	772.2	782.5
40°	735.4	733.9	733.9	744.2	751.6
42.5°	707.4	705.9	705.9	714.7	725.1
45°	677.9	673.5	673.5	683.8	694.1
47.5°	644.0	641.1	642.5	651.4	661.7
50°	611.6	607.2	605.7	616.0	626.3
52.5°	576.2	574.7	570.3	579.2	591.0
55°	539.4	537.9	533.5	542.3	554.1
57.5°	504.0	499.6	495.2	502.5	515.8
60°	464.2	459.8	453.9	464.2	476.0
62.5°	424.4	418.5	414.1	423.0	436.2
65°	381.7	377.3	371.4	383.2	396.4
67.5°	341.9	337.5	330.1	340.4	349.3
70°	297.7	291.8	288.8	290.3	293.3
72.5°	254.9	252.0	247.6	235.8	232.8
75°	212.2	207.8	198.9	176.8	169.5
77.5°	169.5	166.5	150.3	131.2	131.2
80°	125.3	123.8	104.6	107.6	109.1
82.5°	85.5	82.5	76.6	75.2	75.2
85°	45.7	42.7	44.2	42.7	42.7
87.5°	17.7	17.7	19.2	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)