

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: P238812

Luminaire Tested: **22ENA-LD2-25-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238812
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-LD2-25-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2866.2 lumens
Efficiency: N/A
Efficacy: 143.3 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

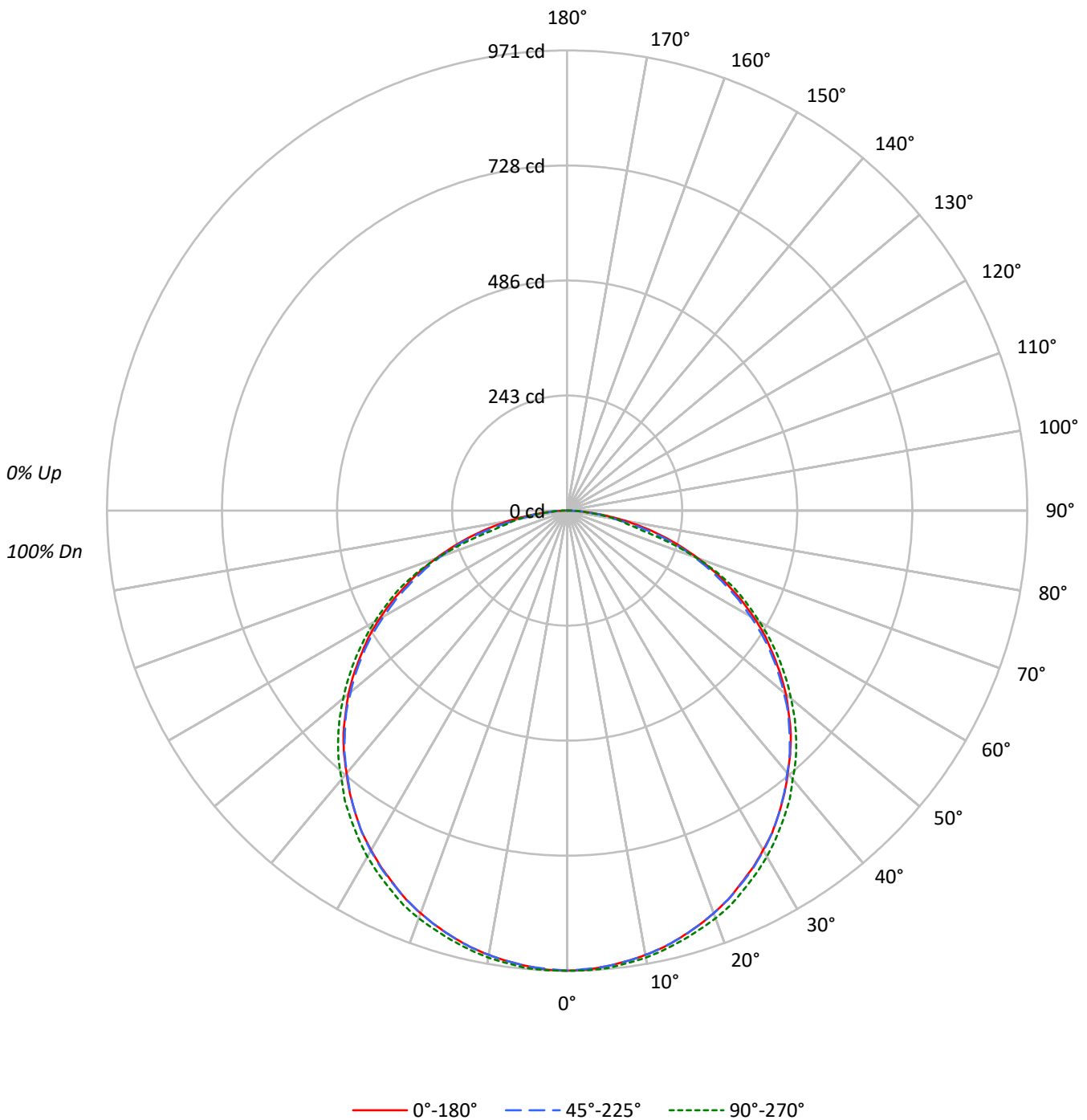
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3420	3420	3420
5°	3413	3413	3428
10°	3406	3406	3426
15°	3398	3398	3425
20°	3390	3390	3433
25°	3373	3379	3430
30°	3365	3371	3430
35°	3352	3352	3420
40°	3330	3324	3404
45°	3326	3304	3406
50°	3301	3269	3380
55°	3262	3227	3352
60°	3221	3149	3303
65°	3133	3048	3254
70°	3020	2930	2975
75°	2845	2666	2272
80°	2503	2090	2179
85°	1819	1758	1702



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	3.2
10°-20°	263.6	9.2
20°-30°	402.4	14.0
30°-40°	490.1	17.1
40°-50°	515.8	18.0
50°-60°	474.9	16.6
60°-70°	369.7	12.9
70°-80°	205.2	7.2
80°-90°	52.7	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°	757.8	26.4
0°-40°	1247.8	43.5
0°-60°	2238.6	78.1
0°-90°	2866.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2866.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	965	965	965	968	970	92
15°	932	932	932	936	939	263
25°	868	869	869	877	882	401
35°	779	779	779	788	795	488
45°	668	663	663	673	684	514
55°	531	530	525	534	546	475
65°	376	372	366	377	390	373
75°	209	205	196	174	167	220
85°	45	42	44	42	42	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.9	970.9	970.9	970.9	970.9
2.5°	969.5	968.0	968.0	970.9	970.9
5°	965.1	965.1	965.1	968.0	969.5
7.5°	959.3	959.3	959.3	963.7	963.7
10°	952.1	950.6	952.1	955.0	957.9
12.5°	943.4	941.9	943.4	946.3	949.2
15°	931.7	931.7	931.7	936.1	939.0
17.5°	918.7	917.2	918.7	923.0	927.4
20°	904.2	904.2	904.2	910.0	915.8
22.5°	888.2	886.8	888.2	895.5	901.3
25°	867.9	869.3	869.3	876.6	882.4
27.5°	849.0	847.6	850.5	856.3	863.5
30°	827.3	827.3	828.7	836.0	843.2
32.5°	805.5	804.0	805.5	812.7	820.0
35°	779.4	779.4	779.4	788.1	795.3
37.5°	753.2	751.8	751.8	760.5	770.7
40°	724.2	722.8	722.8	732.9	740.2
42.5°	696.6	695.2	695.2	703.9	714.1
45°	667.6	663.3	663.3	673.4	683.6
47.5°	634.2	631.3	632.8	641.5	651.6
50°	602.3	597.9	596.5	606.7	616.8
52.5°	567.5	566.0	561.7	570.4	582.0
55°	531.2	529.7	525.4	534.1	545.7
57.5°	496.4	492.0	487.6	494.9	508.0
60°	457.2	452.8	447.0	457.2	468.8
62.5°	418.0	412.2	407.8	416.5	429.6
65°	375.9	371.5	365.7	377.3	390.4
67.5°	336.7	332.4	325.1	335.3	344.0
70°	293.2	287.4	284.5	285.9	288.8
72.5°	251.1	248.2	243.8	232.2	229.3
75°	209.0	204.6	195.9	174.2	166.9
77.5°	166.9	164.0	148.0	129.2	129.2
80°	123.4	121.9	103.0	105.9	107.4
82.5°	84.2	81.3	75.5	74.0	74.0
85°	45.0	42.1	43.5	42.1	42.1
87.5°	17.4	17.4	18.9	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)