

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: P238861

Luminaire Tested: **22ENA-LD2-30-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238861
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-L930-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2514.5 lumens
Efficiency: N/A
Efficacy: 101.0 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

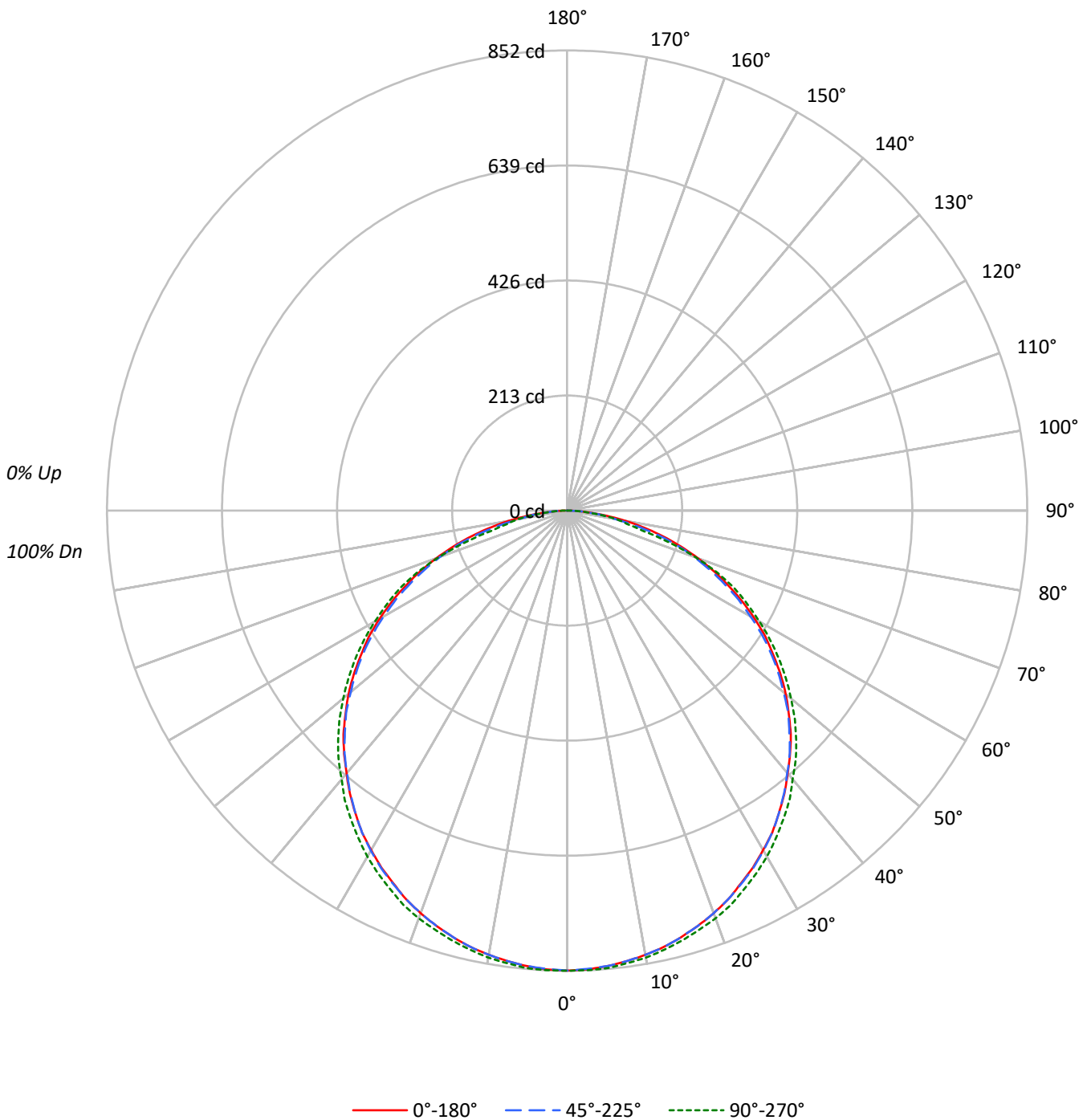
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238861

CATALOG NUMBER: 22ENA-LD2-30-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238861

CATALOG NUMBER: 22ENA-LD2-30-UNV-L930-CD1-U

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°	3001	3001	3001
5°	2994	2994	3008
10°	2988	2988	3006
15°	2981	2981	3004
20°	2974	2974	3012
25°	2959	2965	3009
30°	2952	2957	3009
35°	2940	2940	3001
40°	2922	2916	2986
45°	2918	2899	2988
50°	2896	2868	2965
55°	2862	2831	2941
60°	2826	2763	2898
65°	2749	2675	2855
70°	2649	2571	2610
75°	2496	2340	1993
80°	2195	1834	1911
85°	1597	1544	1491



TEST NUMBER: P238861

CATALOG NUMBER: 22ENA-LD2-30-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	3.2
10°-20°	231.2	9.2
20°-30°	353.0	14.0
30°-40°	429.9	17.1
40°-50°	452.5	18.0
50°-60°	416.7	16.6
60°-70°	324.3	12.9
70°-80°	180.0	7.2
80°-90°	46.3	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°	664.8	26.4
0°-40°	1094.7	43.5
0°-60°	1963.9	78.1
0°-90°	2514.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2514.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	847	847	847	849	850	80
15°	817	817	817	821	824	231
25°	761	763	763	769	774	351
35°	684	684	684	691	698	428
45°	586	582	582	591	600	451
55°	466	465	461	469	479	417
65°	330	326	321	331	342	327
75°	183	180	172	153	146	193
85°	40	37	38	37	37	50
90°	0	0	0	0	0	



TEST NUMBER: P238861

CATALOG NUMBER: 22ENA-LD2-30-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851.8	851.8	851.8	851.8	851.8
2.5°	850.5	849.3	849.3	851.8	851.8
5°	846.7	846.7	846.7	849.3	850.5
7.5°	841.6	841.6	841.6	845.5	845.5
10°	835.3	834.0	835.3	837.8	840.4
12.5°	827.6	826.4	827.6	830.2	832.7
15°	817.4	817.4	817.4	821.3	823.8
17.5°	806.0	804.7	806.0	809.8	813.6
20°	793.3	793.3	793.3	798.3	803.4
22.5°	779.2	778.0	779.2	785.6	790.7
25°	761.4	762.7	762.7	769.1	774.2
27.5°	744.9	743.6	746.1	751.2	757.6
30°	725.8	725.8	727.0	733.4	739.8
32.5°	706.7	705.4	706.7	713.0	719.4
35°	683.7	683.7	683.7	691.4	697.8
37.5°	660.8	659.6	659.6	667.2	676.1
40°	635.4	634.1	634.1	643.0	649.4
42.5°	611.2	609.9	609.9	617.5	626.5
45°	585.7	581.9	581.9	590.8	599.7
47.5°	556.4	553.9	555.1	562.8	571.7
50°	528.4	524.6	523.3	532.2	541.1
52.5°	497.9	496.6	492.8	500.4	510.6
55°	466.0	464.7	460.9	468.6	478.8
57.5°	435.5	431.6	427.8	434.2	445.6
60°	401.1	397.3	392.2	401.1	411.3
62.5°	366.7	361.6	357.8	365.4	376.9
65°	329.8	326.0	320.9	331.1	342.5
67.5°	295.4	291.6	285.2	294.1	301.8
70°	257.2	252.1	249.6	250.8	253.4
72.5°	220.3	217.7	213.9	203.7	201.2
75°	183.4	179.5	171.9	152.8	146.4
77.5°	146.4	143.9	129.9	113.3	113.3
80°	108.2	107.0	90.4	92.9	94.2
82.5°	73.9	71.3	66.2	64.9	64.9
85°	39.5	36.9	38.2	36.9	36.9
87.5°	15.3	15.3	16.6	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)