

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: P238857

Luminaire Tested: **22ENA-LD2-25-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238857
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-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: 2164.0 lumens
Efficiency: N/A
Efficacy: 108.2 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

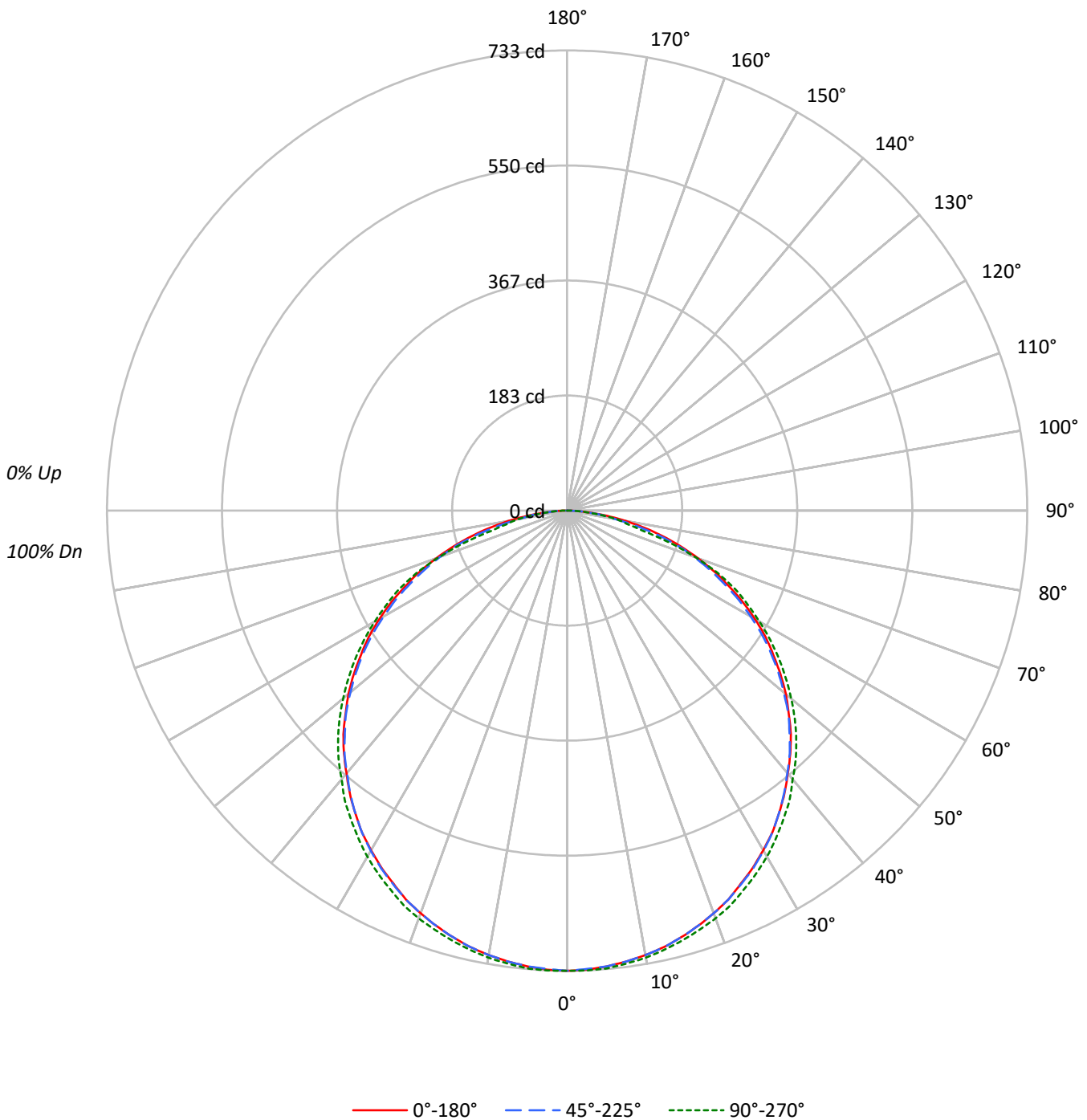
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2583	2583	2583
5°	2577	2577	2588
10°	2571	2571	2587
15°	2566	2566	2586
20°	2559	2559	2592
25°	2547	2551	2589
30°	2541	2545	2590
35°	2530	2530	2582
40°	2515	2509	2570
45°	2511	2495	2571
50°	2492	2468	2552
55°	2463	2436	2530
60°	2432	2378	2493
65°	2366	2301	2457
70°	2279	2212	2246
75°	2148	2013	1715
80°	1889	1578	1645
85°	1374	1330	1285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	3.2
10°-20°	199.0	9.2
20°-30°	303.8	14.0
30°-40°	370.0	17.1
40°-50°	389.5	18.0
50°-60°	358.6	16.6
60°-70°	279.1	12.9
70°-80°	154.9	7.2
80°-90°	39.8	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°	572.1	26.4
0°-40°	942.1	43.5
0°-60°	1690.2	78.1
0°-90°	2164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	729	729	729	731	732	69
15°	704	704	704	707	709	199
25°	655	656	656	662	666	302
35°	588	588	588	595	600	368
45°	504	501	501	508	516	388
55°	401	400	397	403	412	359
65°	284	280	276	285	295	281
75°	158	154	148	132	126	166
85°	34	32	33	32	32	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	733.1	733.1	733.1	733.1	733.1
2.5°	732.0	730.9	730.9	733.1	733.1
5°	728.7	728.7	728.7	730.9	732.0
7.5°	724.3	724.3	724.3	727.6	727.6
10°	718.8	717.7	718.8	721.0	723.2
12.5°	712.3	711.2	712.3	714.4	716.6
15°	703.5	703.5	703.5	706.8	709.0
17.5°	693.6	692.5	693.6	696.9	700.2
20°	682.7	682.7	682.7	687.0	691.4
22.5°	670.6	669.5	670.6	676.1	680.5
25°	655.3	656.4	656.4	661.8	666.2
27.5°	641.0	639.9	642.1	646.5	652.0
30°	624.6	624.6	625.7	631.2	636.6
32.5°	608.2	607.1	608.2	613.6	619.1
35°	588.4	588.4	588.4	595.0	600.5
37.5°	568.7	567.6	567.6	574.2	581.9
40°	546.8	545.7	545.7	553.4	558.8
42.5°	526.0	524.9	524.9	531.4	539.1
45°	504.1	500.8	500.8	508.4	516.1
47.5°	478.9	476.7	477.8	484.3	492.0
50°	454.7	451.5	450.4	458.0	465.7
52.5°	428.4	427.4	424.1	430.6	439.4
55°	401.1	400.0	396.7	403.2	412.0
57.5°	374.8	371.5	368.2	373.7	383.5
60°	345.2	341.9	337.5	345.2	353.9
62.5°	315.6	311.2	307.9	314.5	324.3
65°	283.8	280.5	276.1	284.9	294.8
67.5°	254.2	250.9	245.5	253.1	259.7
70°	221.3	217.0	214.8	215.9	218.1
72.5°	189.6	187.4	184.1	175.3	173.1
75°	157.8	154.5	147.9	131.5	126.0
77.5°	126.0	123.8	111.8	97.5	97.5
80°	93.1	92.0	77.8	80.0	81.1
82.5°	63.6	61.4	57.0	55.9	55.9
85°	34.0	31.8	32.9	31.8	31.8
87.5°	13.1	13.1	14.2	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)