

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: P238858

Luminaire Tested: **22ENA-LD2-25-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238858
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-L935-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2223.1 lumens
Efficiency: N/A
Efficacy: 111.2 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

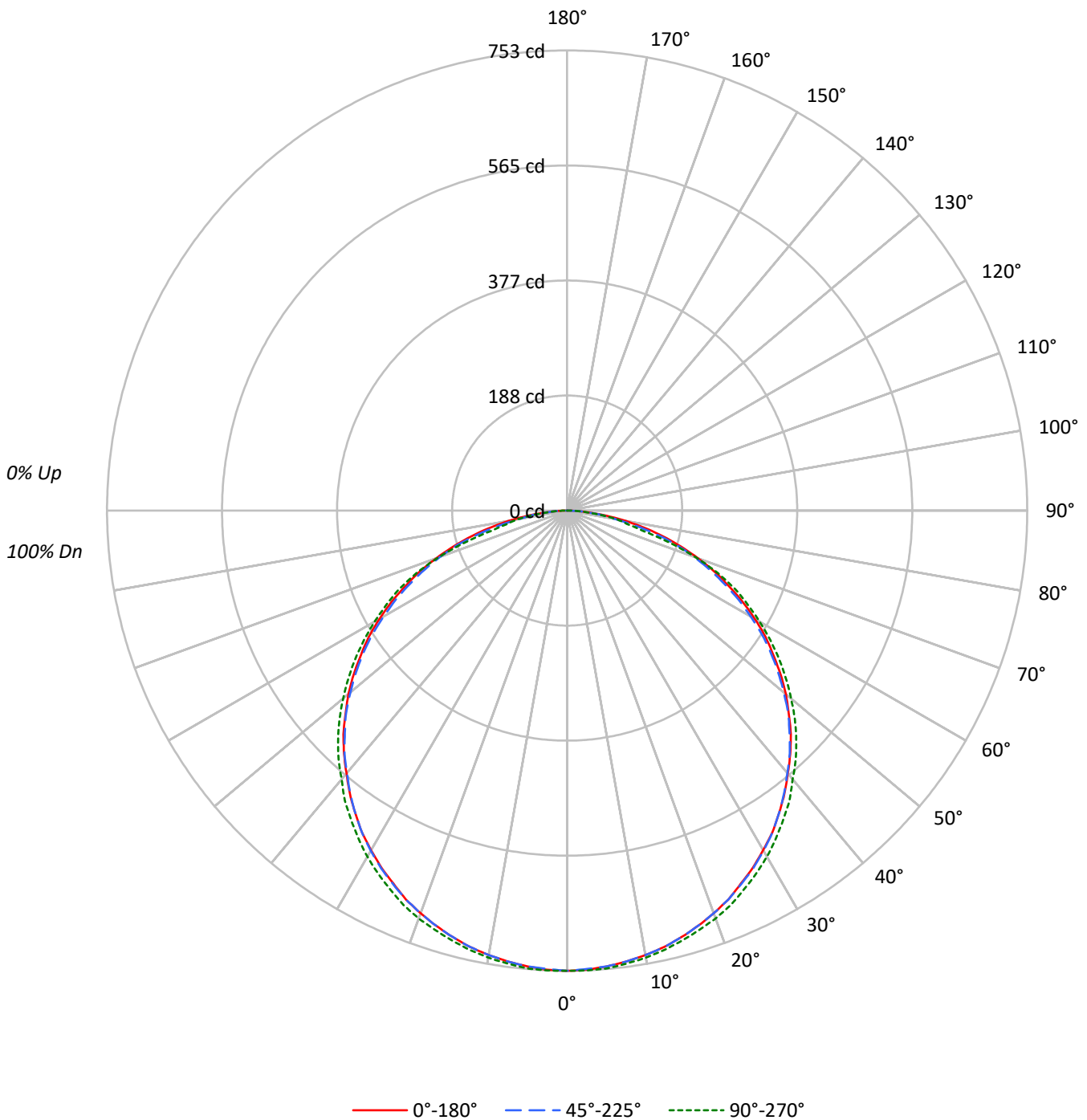
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2653	2653	2653
5°	2647	2647	2659
10°	2641	2641	2657
15°	2636	2636	2656
20°	2629	2629	2663
25°	2617	2621	2660
30°	2610	2615	2660
35°	2600	2600	2653
40°	2583	2578	2640
45°	2580	2563	2641
50°	2560	2536	2622
55°	2530	2503	2600
60°	2498	2443	2562
65°	2431	2365	2524
70°	2342	2272	2307
75°	2206	2069	1763
80°	1941	1621	1690
85°	1411	1366	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	3.2
10°-20°	204.4	9.2
20°-30°	312.1	14.0
30°-40°	380.1	17.1
40°-50°	400.1	18.0
50°-60°	368.4	16.6
60°-70°	286.7	12.9
70°-80°	159.2	7.2
80°-90°	40.9	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°	587.7	26.4
0°-40°	967.8	43.5
0°-60°	1736.3	78.1
0°-90°	2223.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2223.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	749	749	749	751	752	71
15°	723	723	723	726	728	204
25°	673	674	674	680	684	311
35°	604	604	604	611	617	378
45°	518	514	514	522	530	399
55°	412	411	408	414	423	369
65°	292	288	284	293	303	289
75°	162	159	152	135	130	171
85°	35	33	34	33	33	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	753.1	753.1	753.1	753.1	753.1
2.5°	752.0	750.8	750.8	753.1	753.1
5°	748.6	748.6	748.6	750.8	752.0
7.5°	744.1	744.1	744.1	747.5	747.5
10°	738.4	737.3	738.4	740.7	742.9
12.5°	731.7	730.6	731.7	733.9	736.2
15°	722.7	722.7	722.7	726.1	728.3
17.5°	712.6	711.4	712.6	715.9	719.3
20°	701.3	701.3	701.3	705.8	710.3
22.5°	688.9	687.8	688.9	694.5	699.0
25°	673.2	674.3	674.3	679.9	684.4
27.5°	658.5	657.4	659.6	664.2	669.8
30°	641.6	641.6	642.8	648.4	654.0
32.5°	624.8	623.6	624.8	630.4	636.0
35°	604.5	604.5	604.5	611.2	616.9
37.5°	584.2	583.1	583.1	589.9	597.7
40°	561.7	560.6	560.6	568.5	574.1
42.5°	540.3	539.2	539.2	546.0	553.8
45°	517.8	514.4	514.4	522.3	530.2
47.5°	491.9	489.7	490.8	497.6	505.4
50°	467.2	463.8	462.7	470.5	478.4
52.5°	440.1	439.0	435.6	442.4	451.4
55°	412.0	410.9	407.5	414.3	423.3
57.5°	385.0	381.6	378.2	383.9	394.0
60°	354.6	351.2	346.7	354.6	363.6
62.5°	324.2	319.7	316.3	323.1	333.2
65°	291.6	288.2	283.7	292.7	302.8
67.5°	261.2	257.8	252.2	260.0	266.8
70°	227.4	222.9	220.6	221.8	224.0
72.5°	194.7	192.5	189.1	180.1	177.9
75°	162.1	158.7	152.0	135.1	129.5
77.5°	129.5	127.2	114.8	100.2	100.2
80°	95.7	94.6	79.9	82.2	83.3
82.5°	65.3	63.0	58.5	57.4	57.4
85°	34.9	32.6	33.8	32.6	32.6
87.5°	13.5	13.5	14.6	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)