

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: P238785

Luminaire Tested: **22EN-LD2-25-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238785
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: 22EN-LD2-25-UNV-L830-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2568.8 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

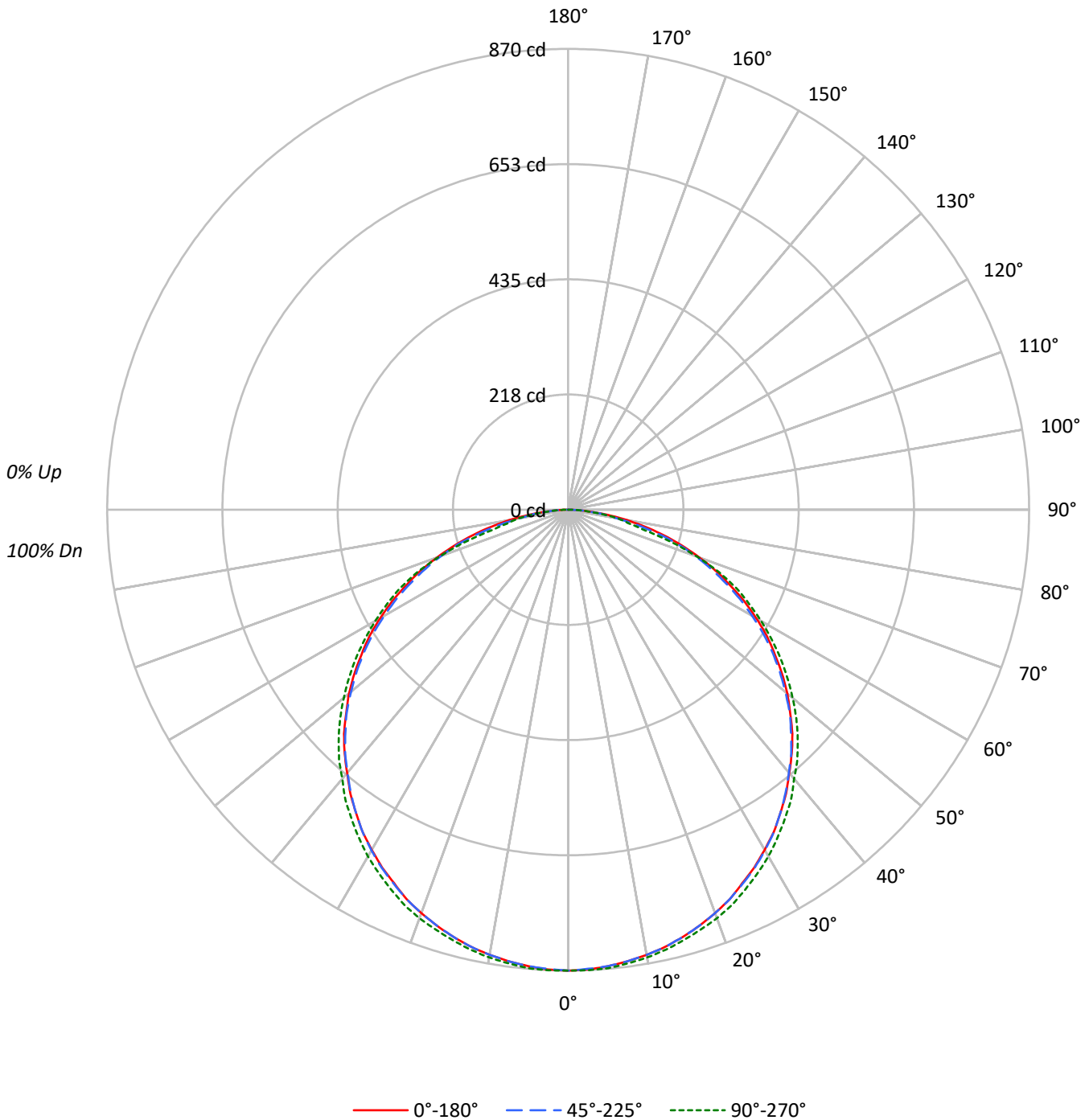
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2787	2787	2787
5°	2781	2781	2793
10°	2775	2775	2792
15°	2769	2769	2790
20°	2762	2762	2797
25°	2749	2753	2795
30°	2742	2746	2795
35°	2731	2731	2787
40°	2714	2708	2773
45°	2710	2692	2775
50°	2689	2663	2754
55°	2658	2629	2731
60°	2624	2566	2691
65°	2553	2484	2651
70°	2461	2388	2424
75°	2318	2173	1851
80°	2040	1704	1776
85°	1481	1433	1385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	3.2
10°-20°	236.2	9.2
20°-30°	360.6	14.0
30°-40°	439.2	17.1
40°-50°	462.3	18.0
50°-60°	425.7	16.6
60°-70°	331.3	12.9
70°-80°	183.9	7.2
80°-90°	47.2	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°	679.2	26.4
0°-40°	1118.4	43.5
0°-60°	2006.4	78.1
0°-90°	2568.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2568.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	865	865	865	868	869	82
15°	835	835	835	839	842	236
25°	778	779	779	786	791	359
35°	698	698	698	706	713	437
45°	598	594	594	604	613	461
55°	476	475	471	479	489	426
65°	337	333	328	338	350	334
75°	187	183	176	156	150	197
85°	40	38	39	38	38	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	870.2	870.2	870.2	870.2	870.2
2.5°	868.9	867.6	867.6	870.2	870.2
5°	865.0	865.0	865.0	867.6	868.9
7.5°	859.8	859.8	859.8	863.7	863.7
10°	853.3	852.0	853.3	855.9	858.5
12.5°	845.5	844.2	845.5	848.1	850.7
15°	835.1	835.1	835.1	839.0	841.6
17.5°	823.4	822.1	823.4	827.3	831.2
20°	810.4	810.4	810.4	815.6	820.8
22.5°	796.1	794.8	796.1	802.6	807.8
25°	777.9	779.2	779.2	785.7	790.9
27.5°	761.0	759.7	762.3	767.5	774.0
30°	741.4	741.4	742.7	749.2	755.8
32.5°	721.9	720.6	721.9	728.4	734.9
35°	698.5	698.5	698.5	706.3	712.8
37.5°	675.1	673.8	673.8	681.6	690.7
40°	649.1	647.8	647.8	656.9	663.4
42.5°	624.4	623.1	623.1	630.9	640.0
45°	598.4	594.5	594.5	603.6	612.7
47.5°	568.4	565.8	567.1	574.9	584.0
50°	539.8	535.9	534.6	543.7	552.8
52.5°	508.6	507.3	503.4	511.2	521.6
55°	476.1	474.8	470.9	478.7	489.1
57.5°	444.9	441.0	437.1	443.6	455.3
60°	409.7	405.8	400.6	409.7	420.2
62.5°	374.6	369.4	365.5	373.3	385.0
65°	336.9	333.0	327.8	338.2	349.9
67.5°	301.8	297.9	291.4	300.5	308.3
70°	262.8	257.6	255.0	256.3	258.9
72.5°	225.0	222.4	218.5	208.1	205.5
75°	187.3	183.4	175.6	156.1	149.6
77.5°	149.6	147.0	132.7	115.8	115.8
80°	110.6	109.3	92.4	95.0	96.3
82.5°	75.4	72.8	67.6	66.3	66.3
85°	40.3	37.7	39.0	37.7	37.7
87.5°	15.6	15.6	16.9	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)