

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: P238853

Luminaire Tested: **22ENA-LD2-19-UNV-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238853  
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-LD2-19-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: 1708.5 lumens  
Efficiency: N/A  
Efficacy: 103.5 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

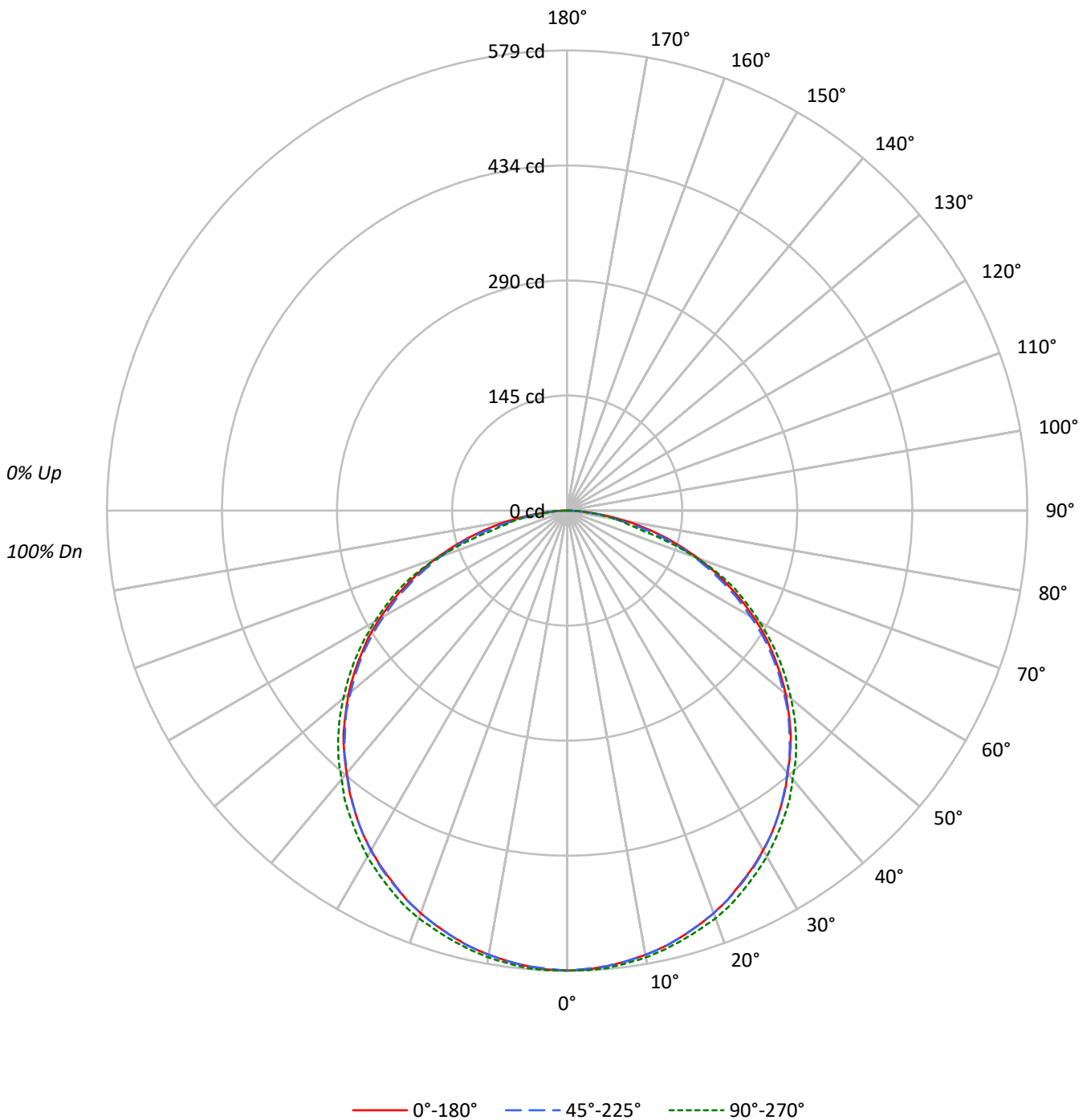
Input Watts (W): 16.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2039	2039	2039
5°	2034	2034	2044
10°	2030	2030	2043
15°	2026	2026	2041
20°	2021	2021	2046
25°	2011	2014	2045
30°	2006	2009	2044
35°	1998	1998	2039
40°	1985	1981	2029
45°	1982	1970	2030
50°	1967	1949	2015
55°	1944	1924	1998
60°	1920	1878	1969
65°	1868	1817	1940
70°	1800	1747	1774
75°	1696	1590	1354
80°	1491	1246	1298
85°	1083	1051	1015



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.7	3.2
10°-20°	157.1	9.2
20°-30°	239.8	14.0
30°-40°	292.1	17.1
40°-50°	307.5	18.0
50°-60°	283.1	16.6
60°-70°	220.4	12.9
70°-80°	122.3	7.2
80°-90°	31.4	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°	451.7	26.4
0°-40°	743.8	43.5
0°-60°	1334.4	78.1
0°-90°	1708.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1708.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	575	575	575	577	578	55
15°	555	555	555	558	560	157
25°	517	518	518	522	526	239
35°	465	465	465	470	474	291
45°	398	395	395	401	408	306
55°	317	316	313	318	325	283
65°	224	222	218	225	233	222
75°	125	122	117	104	100	131
85°	27	25	26	25	25	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	578.8	578.8	578.8	578.8	578.8
2.5°	577.9	577.0	577.0	578.8	578.8
5°	575.3	575.3	575.3	577.0	577.9
7.5°	571.8	571.8	571.8	574.4	574.4
10°	567.5	566.6	567.5	569.2	571.0
12.5°	562.3	561.5	562.3	564.0	565.8
15°	555.4	555.4	555.4	558.0	559.7
17.5°	547.6	546.7	547.6	550.2	552.8
20°	539.0	539.0	539.0	542.4	545.9
22.5°	529.4	528.6	529.4	533.8	537.2
25°	517.3	518.2	518.2	522.5	526.0
27.5°	506.1	505.2	507.0	510.4	514.7
30°	493.1	493.1	494.0	498.3	502.6
32.5°	480.1	479.3	480.1	484.5	488.8
35°	464.6	464.6	464.6	469.8	474.1
37.5°	449.0	448.1	448.1	453.3	459.4
40°	431.7	430.8	430.8	436.9	441.2
42.5°	415.3	414.4	414.4	419.6	425.6
45°	397.9	395.4	395.4	401.4	407.5
47.5°	378.1	376.3	377.2	382.4	388.4
50°	359.0	356.4	355.6	361.6	367.7
52.5°	338.3	337.4	334.8	340.0	346.9
55°	316.6	315.8	313.2	318.4	325.3
57.5°	295.9	293.3	290.7	295.0	302.8
60°	272.5	269.9	266.5	272.5	279.4
62.5°	249.2	245.7	243.1	248.3	256.1
65°	224.1	221.5	218.0	224.9	232.7
67.5°	200.7	198.1	193.8	199.8	205.0
70°	174.8	171.3	169.6	170.4	172.2
72.5°	149.7	147.9	145.3	138.4	136.7
75°	124.6	122.0	116.8	103.8	99.5
77.5°	99.5	97.8	88.2	77.0	77.0
80°	73.5	72.7	61.4	63.2	64.0
82.5°	50.2	48.4	45.0	44.1	44.1
85°	26.8	25.1	26.0	25.1	25.1
87.5°	10.4	10.4	11.2	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)