

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: P238854

Luminaire Tested: **22ENA-LD2-19-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238854  
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-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: 1755.3 lumens  
Efficiency: N/A  
Efficacy: 106.4 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

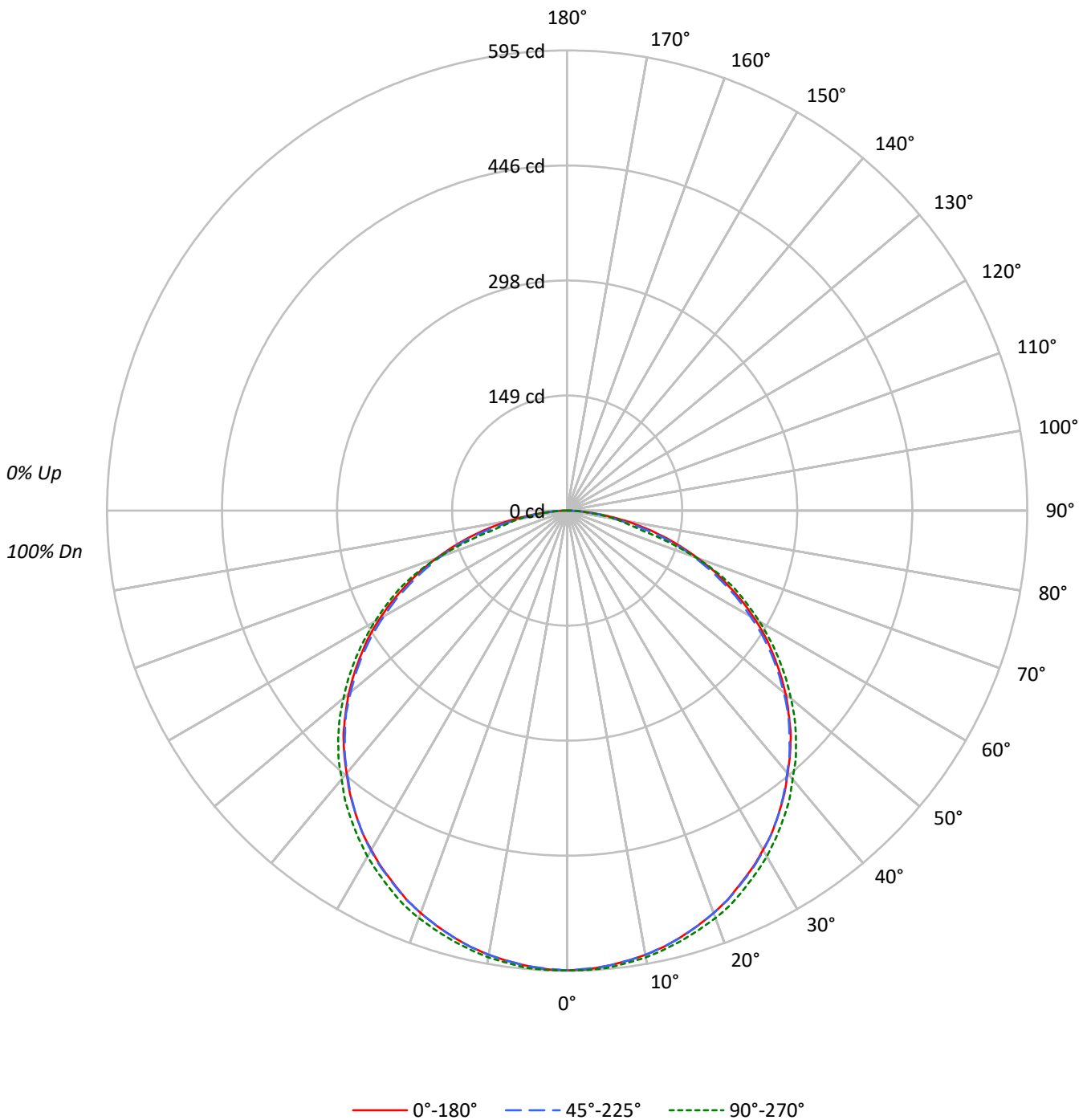
Input Watts (W): 16.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2095	2095	2095
5°	2090	2090	2099
10°	2086	2086	2098
15°	2081	2081	2097
20°	2076	2076	2102
25°	2066	2069	2100
30°	2061	2064	2101
35°	2053	2053	2095
40°	2039	2035	2085
45°	2037	2024	2085
50°	2022	2002	2070
55°	1998	1976	2053
60°	1973	1929	2023
65°	1919	1867	1993
70°	1849	1794	1822
75°	1742	1633	1391
80°	1532	1280	1335
85°	1116	1079	1043



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.2	3.2
10°-20°	161.4	9.2
20°-30°	246.4	14.0
30°-40°	300.1	17.1
40°-50°	315.9	18.0
50°-60°	290.8	16.6
60°-70°	226.4	12.9
70°-80°	125.7	7.2
80°-90°	32.3	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°	464.1	26.4
0°-40°	764.2	43.5
0°-60°	1370.9	78.1
0°-90°	1755.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1755.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	591	591	591	593	594	56
15°	571	571	571	573	575	161
25°	532	532	532	537	540	245
35°	477	477	477	483	487	299
45°	409	406	406	412	419	315
55°	325	324	322	327	334	291
65°	230	228	224	231	239	228
75°	128	125	120	107	102	135
85°	28	26	27	26	26	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	594.6	594.6	594.6	594.6	594.6
2.5°	593.7	592.8	592.8	594.6	594.6
5°	591.1	591.1	591.1	592.8	593.7
7.5°	587.5	587.5	587.5	590.2	590.2
10°	583.1	582.2	583.1	584.8	586.6
12.5°	577.7	576.8	577.7	579.5	581.3
15°	570.6	570.6	570.6	573.3	575.1
17.5°	562.6	561.7	562.6	565.3	568.0
20°	553.7	553.7	553.7	557.3	560.8
22.5°	544.0	543.1	544.0	548.4	552.0
25°	531.5	532.4	532.4	536.8	540.4
27.5°	520.0	519.1	520.8	524.4	528.8
30°	506.6	506.6	507.5	512.0	516.4
32.5°	493.3	492.4	493.3	497.7	502.2
35°	477.3	477.3	477.3	482.6	487.1
37.5°	461.3	460.4	460.4	465.7	472.0
40°	443.5	442.6	442.6	448.8	453.3
42.5°	426.6	425.7	425.7	431.1	437.3
45°	408.9	406.2	406.2	412.4	418.6
47.5°	388.4	386.6	387.5	392.9	399.1
50°	368.9	366.2	365.3	371.5	377.7
52.5°	347.5	346.6	344.0	349.3	356.4
55°	325.3	324.4	321.7	327.1	334.2
57.5°	304.0	301.3	298.6	303.1	311.1
60°	280.0	277.3	273.8	280.0	287.1
62.5°	256.0	252.4	249.8	255.1	263.1
65°	230.2	227.5	224.0	231.1	239.1
67.5°	206.2	203.5	199.1	205.3	210.6
70°	179.5	176.0	174.2	175.1	176.9
72.5°	153.8	152.0	149.3	142.2	140.4
75°	128.0	125.3	120.0	106.7	102.2
77.5°	102.2	100.4	90.7	79.1	79.1
80°	75.5	74.7	63.1	64.9	65.8
82.5°	51.6	49.8	46.2	45.3	45.3
85°	27.6	25.8	26.7	25.8	25.8
87.5°	10.7	10.7	11.6	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)