

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: P238818

Luminaire Tested: **22ENA-LD2-34-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238818
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-LD2-34-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3384.4 lumens
Efficiency: N/A
Efficacy: 118.7 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

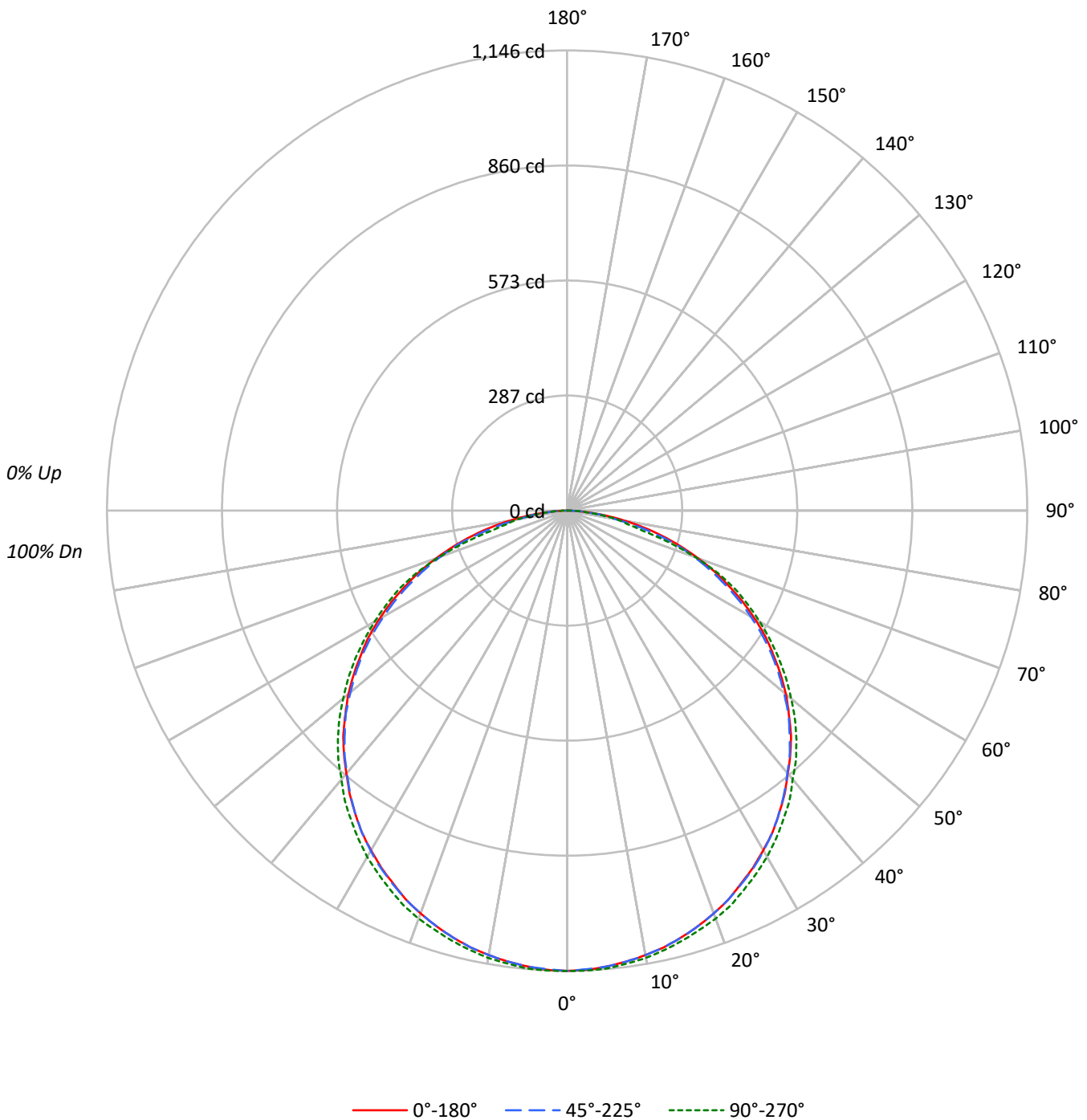
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4039	4039	4039
5°	4030	4030	4048
10°	4021	4021	4046
15°	4012	4012	4044
20°	4002	4002	4054
25°	3983	3990	4050
30°	3973	3980	4050
35°	3958	3958	4039
40°	3932	3924	4019
45°	3927	3902	4021
50°	3898	3860	3991
55°	3852	3810	3958
60°	3803	3719	3900
65°	3700	3600	3843
70°	3566	3460	3512
75°	3359	3150	2683
80°	2956	2469	2572
85°	2146	2078	2009



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	3.2
10°-20°	311.2	9.2
20°-30°	475.1	14.0
30°-40°	578.7	17.1
40°-50°	609.1	18.0
50°-60°	560.8	16.6
60°-70°	436.5	12.9
70°-80°	242.3	7.2
80°-90°	62.3	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°	894.8	26.4
0°-40°	1473.4	43.5
0°-60°	2643.3	78.1
0°-90°	3384.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3384.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1146	1146	1146	1146	1146	
5°	1140	1140	1140	1143	1145	108
15°	1100	1100	1100	1105	1109	311
25°	1025	1026	1026	1035	1042	473
35°	920	920	920	931	939	576
45°	788	783	783	795	807	607
55°	627	626	620	631	644	561
65°	444	439	432	446	461	440
75°	247	242	231	206	197	260
85°	53	50	51	50	50	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1146.5	1146.5	1146.5	1146.5	1146.5
2.5°	1144.8	1143.1	1143.1	1146.5	1146.5
5°	1139.6	1139.6	1139.6	1143.1	1144.8
7.5°	1132.8	1132.8	1132.8	1137.9	1137.9
10°	1124.2	1122.5	1124.2	1127.6	1131.1
12.5°	1113.9	1112.2	1113.9	1117.3	1120.8
15°	1100.2	1100.2	1100.2	1105.4	1108.8
17.5°	1084.8	1083.1	1084.8	1089.9	1095.1
20°	1067.6	1067.6	1067.6	1074.5	1081.4
22.5°	1048.8	1047.1	1048.8	1057.4	1064.2
25°	1024.8	1026.5	1026.5	1035.1	1041.9
27.5°	1002.5	1000.8	1004.2	1011.1	1019.7
30°	976.8	976.8	978.5	987.1	995.7
32.5°	951.1	949.4	951.1	959.7	968.3
35°	920.3	920.3	920.3	930.6	939.1
37.5°	889.4	887.7	887.7	898.0	910.0
40°	855.1	853.4	853.4	865.4	874.0
42.5°	822.6	820.9	820.9	831.2	843.2
45°	788.3	783.2	783.2	795.2	807.2
47.5°	748.9	745.5	747.2	757.5	769.5
50°	711.2	706.1	704.3	716.3	728.3
52.5°	670.1	668.4	663.2	673.5	687.2
55°	627.2	625.5	620.4	630.6	644.4
57.5°	586.1	581.0	575.8	584.4	599.8
60°	539.8	534.7	527.8	539.8	553.5
62.5°	493.6	486.7	481.6	491.8	507.3
65°	443.9	438.7	431.9	445.6	461.0
67.5°	397.6	392.4	383.9	395.9	406.2
70°	346.2	339.3	335.9	337.6	341.0
72.5°	296.5	293.0	287.9	274.2	270.8
75°	246.8	241.6	231.4	205.6	197.1
77.5°	197.1	193.7	174.8	152.5	152.5
80°	145.7	144.0	121.7	125.1	126.8
82.5°	99.4	96.0	89.1	87.4	87.4
85°	53.1	49.7	51.4	49.7	49.7
87.5°	20.6	20.6	22.3	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)