

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: P238875

Luminaire Tested: **22ENA-LD2-43-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238875
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-LD2-43-UNV-L940-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3932.8 lumens
Efficiency: N/A
Efficacy: 102.7 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

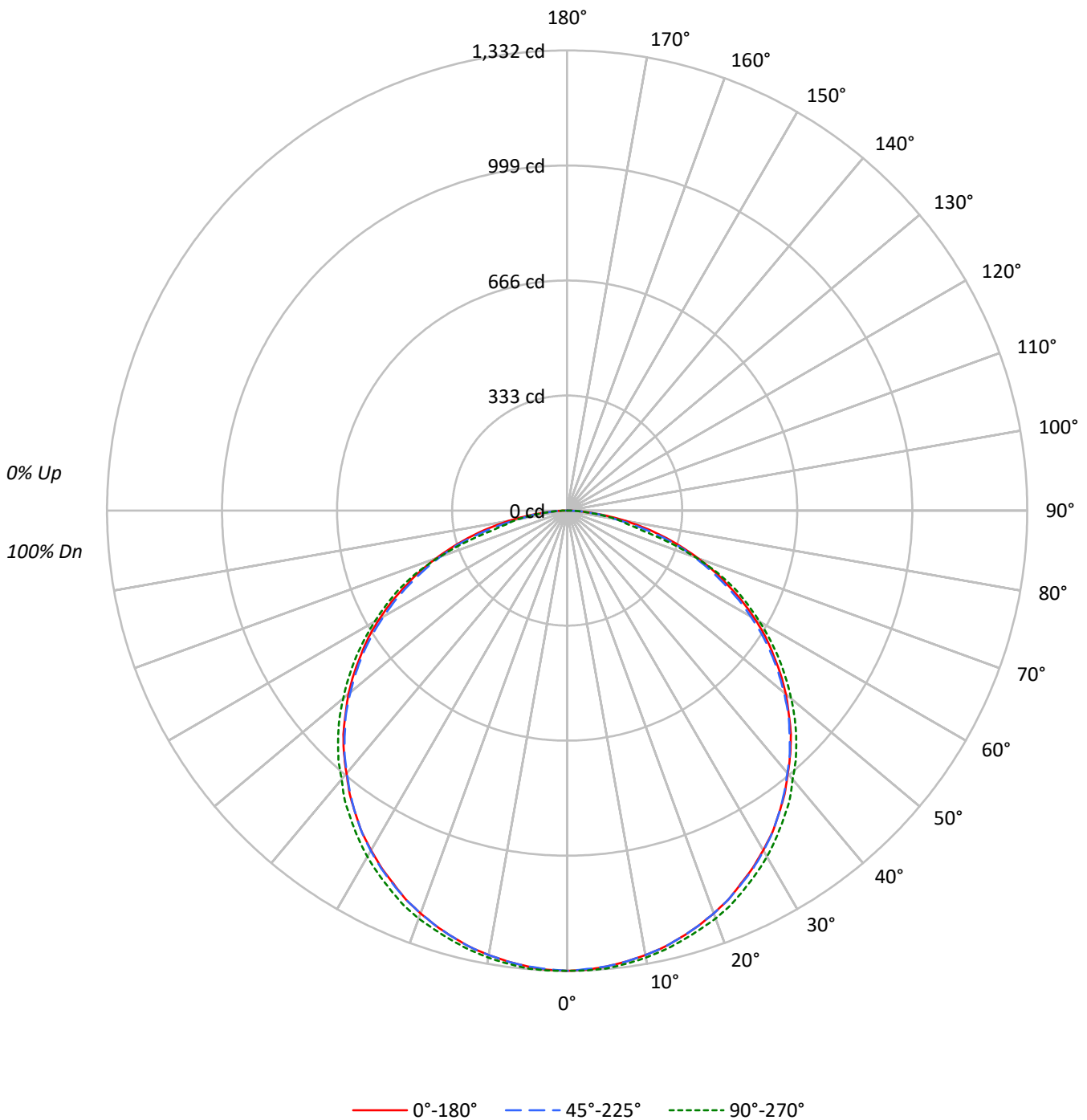
Input Watts (W): 38.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4693	4693	4693
5°	4683	4683	4704
10°	4673	4673	4701
15°	4663	4663	4699
20°	4651	4651	4711
25°	4629	4637	4706
30°	4617	4625	4706
35°	4599	4599	4693
40°	4570	4560	4670
45°	4564	4534	4673
50°	4529	4486	4639
55°	4477	4428	4599
60°	4420	4322	4532
65°	4299	4183	4465
70°	4144	4020	4082
75°	3904	3659	3117
80°	3435	2869	2990
85°	2494	2413	2336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	3.2
10°-20°	361.7	9.2
20°-30°	552.1	14.0
30°-40°	672.4	17.1
40°-50°	707.8	18.0
50°-60°	651.7	16.6
60°-70°	507.2	12.9
70°-80°	281.5	7.2
80°-90°	72.4	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°	1039.8	26.4
0°-40°	1712.2	43.5
0°-60°	3071.7	78.1
0°-90°	3932.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3932.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1324	1324	1324	1328	1330	126
15°	1278	1278	1278	1284	1288	361
25°	1191	1193	1193	1203	1211	550
35°	1069	1069	1069	1081	1091	669
45°	916	910	910	924	938	705
55°	729	727	721	733	749	652
65°	516	510	502	518	536	511
75°	287	281	269	239	229	302
85°	62	58	60	58	58	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1332.3	1332.3	1332.3	1332.3	1332.3
2.5°	1330.3	1328.3	1328.3	1332.3	1332.3
5°	1324.3	1324.3	1324.3	1328.3	1330.3
7.5°	1316.3	1316.3	1316.3	1322.3	1322.3
10°	1306.4	1304.4	1306.4	1310.4	1314.3
12.5°	1294.4	1292.4	1294.4	1298.4	1302.4
15°	1278.5	1278.5	1278.5	1284.5	1288.5
17.5°	1260.6	1258.6	1260.6	1266.5	1272.5
20°	1240.7	1240.7	1240.7	1248.6	1256.6
22.5°	1218.8	1216.8	1218.8	1228.7	1236.7
25°	1190.9	1192.9	1192.9	1202.8	1210.8
27.5°	1165.0	1163.0	1167.0	1174.9	1184.9
30°	1135.1	1135.1	1137.1	1147.1	1157.0
32.5°	1105.2	1103.3	1105.2	1115.2	1125.2
35°	1069.4	1069.4	1069.4	1081.3	1091.3
37.5°	1033.6	1031.6	1031.6	1043.5	1057.4
40°	993.7	991.7	991.7	1005.7	1015.6
42.5°	955.9	953.9	953.9	965.8	979.8
45°	916.1	910.1	910.1	924.0	938.0
47.5°	870.3	866.3	868.3	880.2	894.2
50°	826.4	820.5	818.5	832.4	846.4
52.5°	778.6	776.7	770.7	782.6	798.6
55°	728.9	726.9	720.9	732.8	748.8
57.5°	681.1	675.1	669.1	679.1	697.0
60°	627.3	621.3	613.4	627.3	643.2
62.5°	573.5	565.6	559.6	571.5	589.5
65°	515.8	509.8	501.8	517.8	535.7
67.5°	462.0	456.0	446.1	460.0	472.0
70°	402.3	394.3	390.3	392.3	396.3
72.5°	344.5	340.5	334.6	318.6	314.6
75°	286.8	280.8	268.8	239.0	229.0
77.5°	229.0	225.0	203.1	177.2	177.2
80°	169.3	167.3	141.4	145.4	147.4
82.5°	115.5	111.5	103.6	101.6	101.6
85°	61.7	57.8	59.7	57.8	57.8
87.5°	23.9	23.9	25.9	23.9	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)