

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: P238822

Luminaire Tested: **22ENA-LD2-39-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238822
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-LD2-39-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: 3879.4 lumens
Efficiency: N/A
Efficacy: 116.5 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

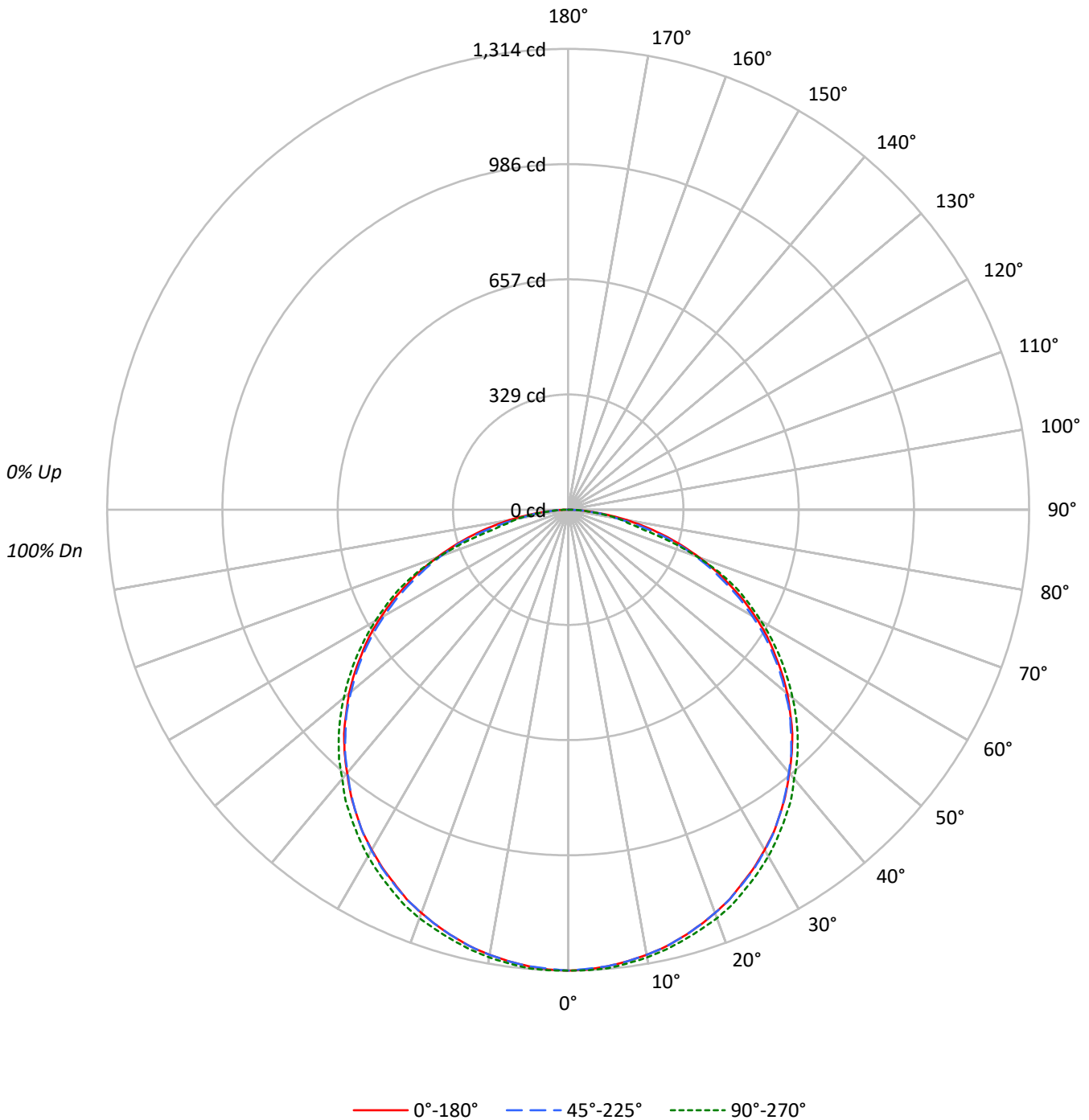
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4630	4630	4630
5°	4619	4619	4640
10°	4610	4610	4638
15°	4600	4600	4635
20°	4588	4588	4647
25°	4566	4574	4643
30°	4555	4563	4642
35°	4537	4537	4629
40°	4508	4499	4607
45°	4502	4472	4609
50°	4468	4425	4576
55°	4416	4367	4536
60°	4360	4263	4470
65°	4241	4126	4404
70°	4087	3965	4026
75°	3850	3610	3075
80°	3388	2830	2950
85°	2462	2381	2304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	3.2
10°-20°	356.8	9.2
20°-30°	544.6	14.0
30°-40°	663.3	17.1
40°-50°	698.2	18.0
50°-60°	642.8	16.6
60°-70°	500.4	12.9
70°-80°	277.7	7.2
80°-90°	71.4	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°	1025.7	26.4
0°-40°	1689.0	43.5
0°-60°	3030.0	78.1
0°-90°	3879.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3879.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1306	1306	1306	1310	1312	124
15°	1261	1261	1261	1267	1271	356
25°	1175	1177	1177	1186	1194	542
35°	1055	1055	1055	1067	1076	660
45°	904	898	898	912	925	696
55°	719	717	711	723	739	643
65°	509	503	495	511	528	504
75°	283	277	265	236	226	298
85°	61	57	59	57	57	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.2	1314.2	1314.2	1314.2	1314.2
2.5°	1312.2	1310.3	1310.3	1314.2	1314.2
5°	1306.3	1306.3	1306.3	1310.3	1312.2
7.5°	1298.5	1298.5	1298.5	1304.4	1304.4
10°	1288.7	1286.7	1288.7	1292.6	1296.5
12.5°	1276.9	1274.9	1276.9	1280.8	1284.7
15°	1261.2	1261.2	1261.2	1267.1	1271.0
17.5°	1243.5	1241.5	1243.5	1249.4	1255.3
20°	1223.8	1223.8	1223.8	1231.7	1239.6
22.5°	1202.2	1200.3	1202.2	1212.0	1219.9
25°	1174.7	1176.7	1176.7	1186.5	1194.4
27.5°	1149.2	1147.2	1151.2	1159.0	1168.8
30°	1119.7	1119.7	1121.7	1131.5	1141.3
32.5°	1090.3	1088.3	1090.3	1100.1	1109.9
35°	1054.9	1054.9	1054.9	1066.7	1076.5
37.5°	1019.5	1017.6	1017.6	1029.4	1043.1
40°	980.2	978.3	978.3	992.0	1001.9
42.5°	942.9	941.0	941.0	952.7	966.5
45°	903.6	897.7	897.7	911.5	925.2
47.5°	858.5	854.5	856.5	868.3	882.0
50°	815.2	809.3	807.4	821.1	834.9
52.5°	768.1	766.1	760.2	772.0	787.7
55°	719.0	717.0	711.1	722.9	738.6
57.5°	671.8	665.9	660.0	669.9	687.5
60°	618.8	612.9	605.0	618.8	634.5
62.5°	565.8	557.9	552.0	563.8	581.5
65°	508.8	502.9	495.0	510.8	528.4
67.5°	455.7	449.9	440.0	453.8	465.6
70°	396.8	389.0	385.0	387.0	390.9
72.5°	339.8	335.9	330.0	314.3	310.4
75°	282.9	277.0	265.2	235.7	225.9
77.5°	225.9	222.0	200.4	174.8	174.8
80°	167.0	165.0	139.5	143.4	145.4
82.5°	113.9	110.0	102.2	100.2	100.2
85°	60.9	57.0	58.9	57.0	57.0
87.5°	23.6	23.6	25.5	23.6	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)