

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: P238874

Luminaire Tested: **22ENA-LD2-43-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238874
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-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: 3759.5 lumens
Efficiency: N/A
Efficacy: 98.2 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

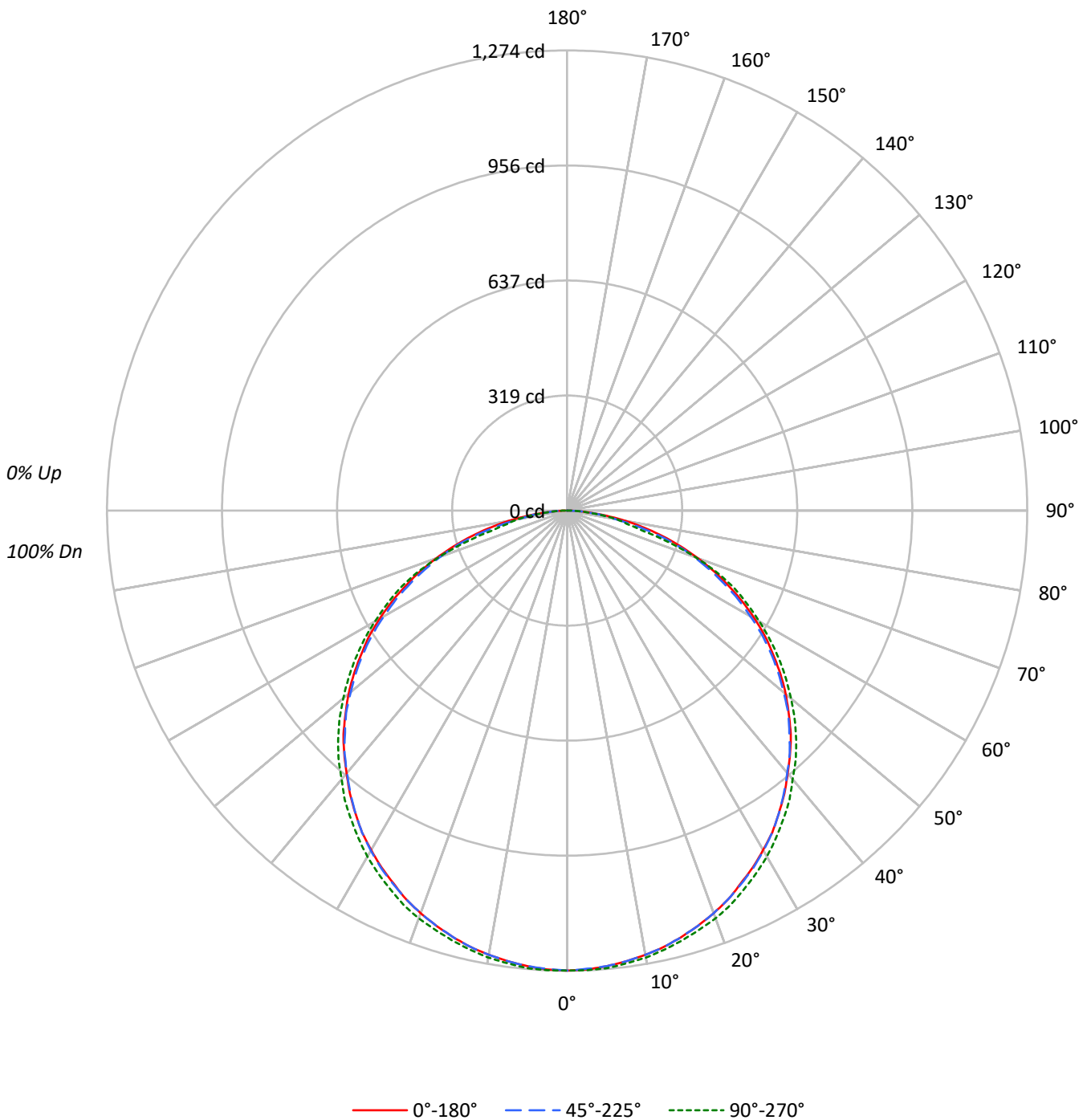
Input Watts (W): 38.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238874

CATALOG NUMBER: 22ENA-LD2-43-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238874

CATALOG NUMBER: 22ENA-LD2-43-UNV-L935-CD1-U

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°	4487	4487	4487
5°	4477	4477	4497
10°	4467	4467	4495
15°	4457	4457	4492
20°	4446	4446	4503
25°	4425	4432	4499
30°	4414	4422	4499
35°	4396	4396	4486
40°	4369	4360	4465
45°	4363	4334	4467
50°	4330	4288	4434
55°	4280	4232	4396
60°	4225	4131	4332
65°	4110	3999	4269
70°	3961	3843	3902
75°	3731	3498	2979
80°	3282	2743	2858
85°	2385	2308	2231



TEST NUMBER: P238874

CATALOG NUMBER: 22ENA-LD2-43-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	3.2
10°-20°	345.7	9.2
20°-30°	527.8	14.0
30°-40°	642.8	17.1
40°-50°	676.6	18.0
50°-60°	623.0	16.6
60°-70°	484.9	12.9
70°-80°	269.1	7.2
80°-90°	69.1	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°	994.0	26.4
0°-40°	1636.8	43.5
0°-60°	2936.4	78.1
0°-90°	3759.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3759.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1266	1266	1266	1270	1272	120
15°	1222	1222	1222	1228	1232	345
25°	1138	1140	1140	1150	1158	525
35°	1022	1022	1022	1034	1043	640
45°	876	870	870	883	897	674
55°	697	695	689	701	716	624
65°	493	487	480	495	512	489
75°	274	268	257	228	219	289
85°	59	55	57	55	55	74
90°	0	0	0	0	0	



TEST NUMBER: P238874

CATALOG NUMBER: 22ENA-LD2-43-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1273.6	1273.6	1273.6	1273.6	1273.6
2.5°	1271.7	1269.8	1269.8	1273.6	1273.6
5°	1266.0	1266.0	1266.0	1269.8	1271.7
7.5°	1258.4	1258.4	1258.4	1264.1	1264.1
10°	1248.8	1246.9	1248.8	1252.6	1256.5
12.5°	1237.4	1235.5	1237.4	1241.2	1245.0
15°	1222.2	1222.2	1222.2	1227.9	1231.7
17.5°	1205.1	1203.2	1205.1	1210.8	1216.5
20°	1186.0	1186.0	1186.0	1193.6	1201.2
22.5°	1165.1	1163.2	1165.1	1174.6	1182.2
25°	1138.4	1140.3	1140.3	1149.8	1157.5
27.5°	1113.7	1111.8	1115.6	1123.2	1132.7
30°	1085.1	1085.1	1087.0	1096.5	1106.1
32.5°	1056.6	1054.7	1056.6	1066.1	1075.6
35°	1022.3	1022.3	1022.3	1033.7	1043.2
37.5°	988.0	986.1	986.1	997.5	1010.9
40°	950.0	948.1	948.1	961.4	970.9
42.5°	913.8	911.9	911.9	923.3	936.6
45°	875.7	870.0	870.0	883.3	896.7
47.5°	831.9	828.1	830.0	841.4	854.8
50°	790.0	784.3	782.4	795.8	809.1
52.5°	744.4	742.5	736.7	748.2	763.4
55°	696.8	694.9	689.1	700.6	715.8
57.5°	651.1	645.4	639.6	649.2	666.3
60°	599.7	594.0	586.3	599.7	614.9
62.5°	548.3	540.7	534.9	546.4	563.5
65°	493.1	487.4	479.7	495.0	512.1
67.5°	441.7	436.0	426.4	439.8	451.2
70°	384.6	376.9	373.1	375.0	378.8
72.5°	329.3	325.5	319.8	304.6	300.8
75°	274.1	268.4	257.0	228.4	218.9
77.5°	218.9	215.1	194.2	169.4	169.4
80°	161.8	159.9	135.2	139.0	140.9
82.5°	110.4	106.6	99.0	97.1	97.1
85°	59.0	55.2	57.1	55.2	55.2
87.5°	22.8	22.8	24.7	22.8	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)