

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: P238868

Luminaire Tested: **22ENA-LD2-34-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238868
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-L950-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3231.0 lumens
Efficiency: N/A
Efficacy: 113.4 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

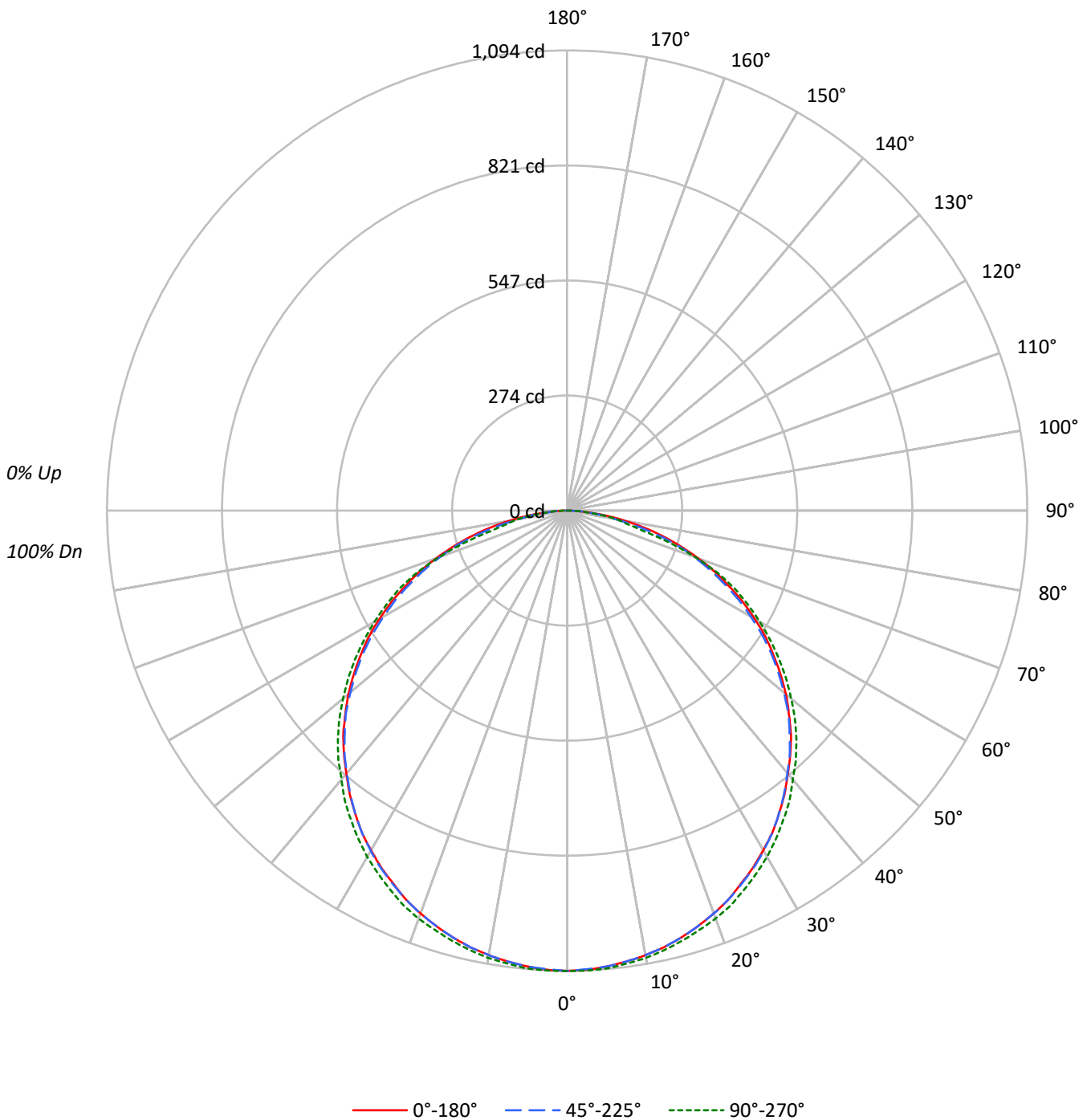
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3856	3856	3856
5°	3847	3847	3865
10°	3839	3839	3863
15°	3830	3830	3860
20°	3821	3821	3870
25°	3803	3809	3866
30°	3793	3800	3866
35°	3778	3778	3856
40°	3754	3747	3837
45°	3749	3725	3839
50°	3721	3685	3811
55°	3678	3638	3778
60°	3631	3550	3723
65°	3532	3437	3668
70°	3404	3303	3354
75°	3207	3007	2560
80°	2822	2357	2457
85°	2049	1985	1916



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	3.2
10°-20°	297.1	9.2
20°-30°	453.6	14.0
30°-40°	552.4	17.1
40°-50°	581.5	18.0
50°-60°	535.4	16.6
60°-70°	416.7	12.9
70°-80°	231.3	7.2
80°-90°	59.4	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°	854.2	26.4
0°-40°	1406.6	43.5
0°-60°	2523.5	78.1
0°-90°	3231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3231.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1088	1088	1088	1091	1093	103
15°	1050	1050	1050	1055	1058	297
25°	978	980	980	988	995	452
35°	879	879	879	888	897	550
45°	753	748	748	759	771	579
55°	599	597	592	602	615	536
65°	424	419	412	425	440	420
75°	236	231	221	196	188	248
85°	51	47	49	47	47	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1094.5	1094.5	1094.5	1094.5	1094.5
2.5°	1092.9	1091.2	1091.2	1094.5	1094.5
5°	1088.0	1088.0	1088.0	1091.2	1092.9
7.5°	1081.4	1081.4	1081.4	1086.3	1086.3
10°	1073.2	1071.6	1073.2	1076.5	1079.8
12.5°	1063.4	1061.8	1063.4	1066.7	1070.0
15°	1050.3	1050.3	1050.3	1055.3	1058.5
17.5°	1035.6	1034.0	1035.6	1040.5	1045.4
20°	1019.3	1019.3	1019.3	1025.8	1032.3
22.5°	1001.3	999.6	1001.3	1009.4	1016.0
25°	978.4	980.0	980.0	988.2	994.7
27.5°	957.1	955.5	958.7	965.3	973.4
30°	932.5	932.5	934.2	942.4	950.5
32.5°	908.0	906.4	908.0	916.2	924.4
35°	878.6	878.6	878.6	888.4	896.6
37.5°	849.1	847.5	847.5	857.3	868.7
40°	816.4	814.8	814.8	826.2	834.4
42.5°	785.3	783.7	783.7	793.5	804.9
45°	752.6	747.7	747.7	759.1	770.6
47.5°	715.0	711.7	713.3	723.1	734.6
50°	679.0	674.1	672.4	683.9	695.3
52.5°	639.7	638.1	633.2	643.0	656.1
55°	598.8	597.2	592.3	602.1	615.2
57.5°	559.5	554.6	549.7	557.9	572.6
60°	515.4	510.4	503.9	515.4	528.4
62.5°	471.2	464.6	459.7	469.5	484.3
65°	423.7	418.8	412.3	425.4	440.1
67.5°	379.6	374.7	366.5	377.9	387.7
70°	330.5	323.9	320.7	322.3	325.6
72.5°	283.0	279.8	274.9	261.8	258.5
75°	235.6	230.7	220.9	196.3	188.1
77.5°	188.1	184.9	166.9	145.6	145.6
80°	139.1	137.4	116.2	119.4	121.1
82.5°	94.9	91.6	85.1	83.4	83.4
85°	50.7	47.4	49.1	47.4	47.4
87.5°	19.6	19.6	21.3	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)