

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: P238866

Luminaire Tested: **22ENA-LD2-34-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238866
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-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: 2913.9 lumens
Efficiency: N/A
Efficacy: 102.2 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

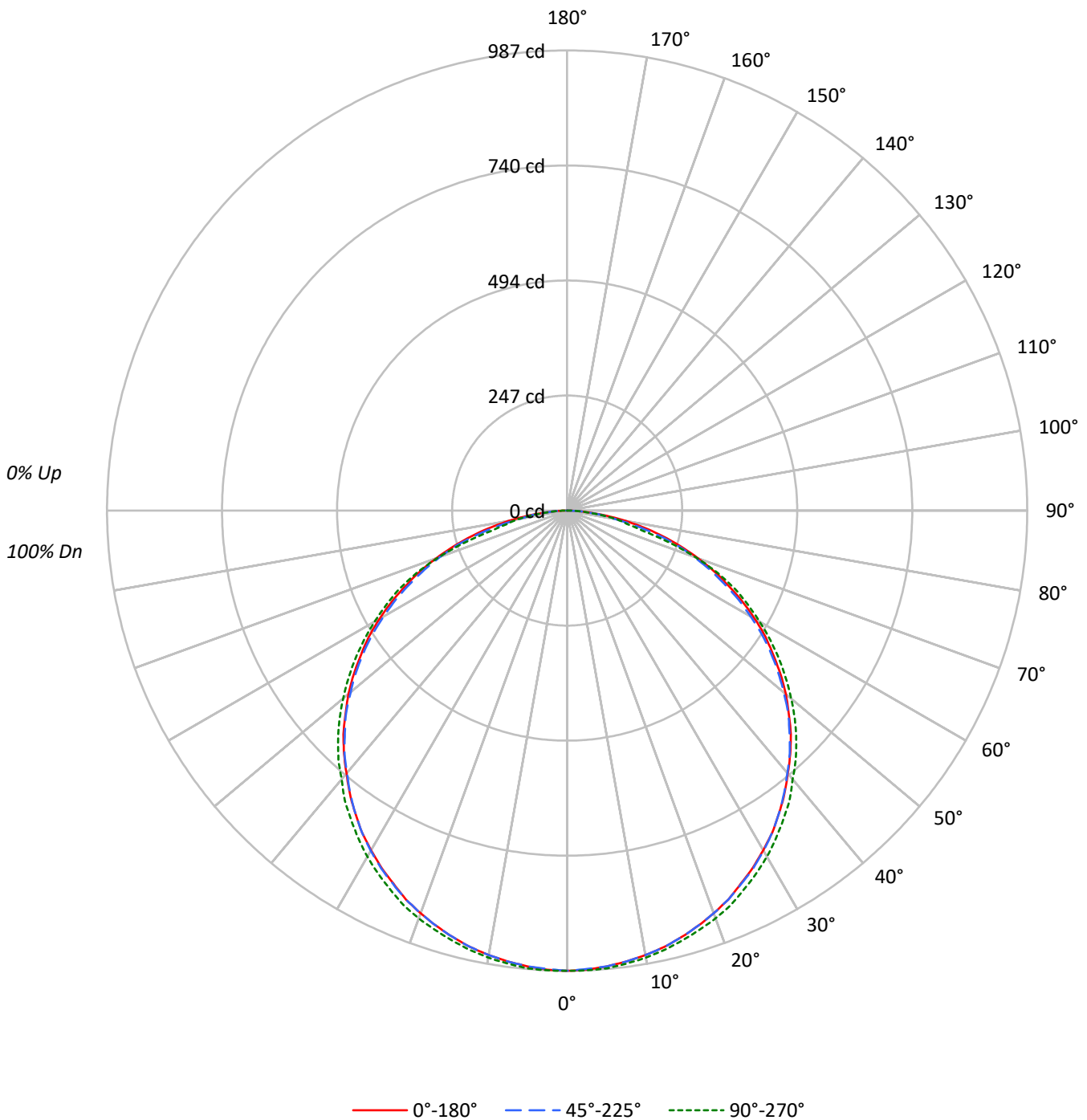
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3477	3477	3477
5°	3470	3470	3485
10°	3462	3462	3483
15°	3455	3455	3482
20°	3446	3446	3490
25°	3430	3435	3487
30°	3421	3427	3487
35°	3408	3408	3477
40°	3386	3379	3460
45°	3381	3359	3462
50°	3356	3323	3437
55°	3317	3280	3407
60°	3275	3202	3358
65°	3186	3099	3308
70°	3070	2979	3024
75°	2892	2711	2310
80°	2544	2126	2215
85°	1847	1791	1730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	3.2
10°-20°	268.0	9.2
20°-30°	409.1	14.0
30°-40°	498.2	17.1
40°-50°	524.4	18.0
50°-60°	482.8	16.6
60°-70°	375.8	12.9
70°-80°	208.6	7.2
80°-90°	53.6	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°	770.4	26.4
0°-40°	1268.6	43.5
0°-60°	2275.9	78.1
0°-90°	2913.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2913.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	987	987	987	987	987	
5°	981	981	981	984	986	93
15°	947	947	947	952	955	267
25°	882	884	884	891	897	407
35°	792	792	792	801	809	496
45°	679	674	674	685	695	523
55°	540	539	534	543	555	483
65°	382	378	372	384	397	379
75°	212	208	199	177	170	224
85°	46	43	44	43	43	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.1	987.1	987.1	987.1	987.1
2.5°	985.6	984.2	984.2	987.1	987.1
5°	981.2	981.2	981.2	984.2	985.6
7.5°	975.3	975.3	975.3	979.7	979.7
10°	967.9	966.5	967.9	970.9	973.8
12.5°	959.1	957.6	959.1	962.0	965.0
15°	947.3	947.3	947.3	951.7	954.7
17.5°	934.0	932.5	934.0	938.4	942.9
20°	919.2	919.2	919.2	925.1	931.0
22.5°	903.0	901.5	903.0	910.4	916.3
25°	882.4	883.8	883.8	891.2	897.1
27.5°	863.2	861.7	864.7	870.6	877.9
30°	841.0	841.0	842.5	849.9	857.3
32.5°	818.9	817.4	818.9	826.3	833.7
35°	792.4	792.4	792.4	801.2	808.6
37.5°	765.8	764.3	764.3	773.2	783.5
40°	736.3	734.8	734.8	745.1	752.5
42.5°	708.2	706.8	706.8	715.6	726.0
45°	678.7	674.3	674.3	684.6	695.0
47.5°	644.8	641.8	643.3	652.2	662.5
50°	612.3	607.9	606.4	616.8	627.1
52.5°	576.9	575.5	571.0	579.9	591.7
55°	540.0	538.6	534.1	543.0	554.8
57.5°	504.6	500.2	495.8	503.2	516.4
60°	464.8	460.4	454.5	464.8	476.6
62.5°	424.9	419.0	414.6	423.5	436.8
65°	382.2	377.7	371.8	383.6	396.9
67.5°	342.3	337.9	330.5	340.8	349.7
70°	298.1	292.2	289.2	290.7	293.6
72.5°	255.3	252.3	247.9	236.1	233.1
75°	212.5	208.0	199.2	177.1	169.7
77.5°	169.7	166.7	150.5	131.3	131.3
80°	125.4	123.9	104.8	107.7	109.2
82.5°	85.6	82.6	76.7	75.3	75.3
85°	45.7	42.8	44.3	42.8	42.8
87.5°	17.7	17.7	19.2	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)