

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: P238864

Luminaire Tested: **22ENA-LD2-30-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238864
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-LD2-30-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: 2864.7 lumens
Efficiency: N/A
Efficacy: 115.1 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

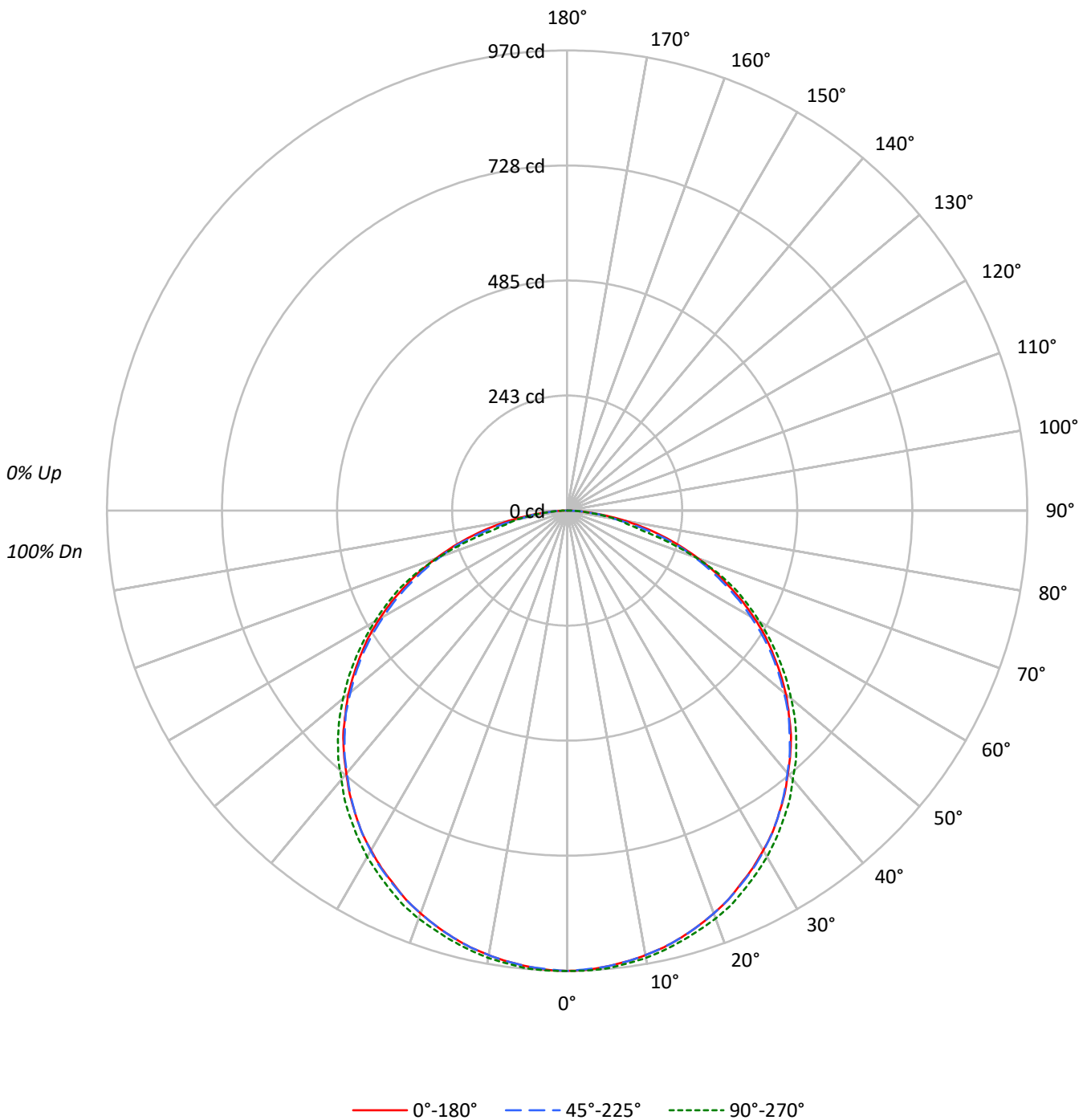
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3419	3419	3419
5°	3411	3411	3427
10°	3404	3404	3425
15°	3396	3396	3423
20°	3388	3388	3431
25°	3372	3377	3428
30°	3364	3369	3428
35°	3350	3350	3418
40°	3329	3322	3402
45°	3324	3303	3404
50°	3299	3267	3379
55°	3261	3225	3350
60°	3219	3148	3302
65°	3132	3047	3253
70°	3018	2928	2974
75°	2843	2665	2270
80°	2501	2090	2177
85°	1819	1758	1702



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	3.2
10°-20°	263.4	9.2
20°-30°	402.2	14.0
30°-40°	489.8	17.1
40°-50°	515.6	18.0
50°-60°	474.7	16.6
60°-70°	369.5	12.9
70°-80°	205.1	7.2
80°-90°	52.7	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°	757.4	26.4
0°-40°	1247.2	43.5
0°-60°	2237.5	78.1
0°-90°	2864.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2864.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	965	965	965	968	969	92
15°	931	931	931	936	939	263
25°	868	869	869	876	882	400
35°	779	779	779	788	795	488
45°	667	663	663	673	683	514
55°	531	530	525	534	545	475
65°	376	371	366	377	390	372
75°	209	204	196	174	167	220
85°	45	42	44	42	42	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.5	970.5	970.5	970.5	970.5
2.5°	969.0	967.6	967.6	970.5	970.5
5°	964.7	964.7	964.7	967.6	969.0
7.5°	958.9	958.9	958.9	963.2	963.2
10°	951.6	950.2	951.6	954.5	957.4
12.5°	942.9	941.5	942.9	945.8	948.7
15°	931.3	931.3	931.3	935.7	938.6
17.5°	918.2	916.8	918.2	922.6	926.9
20°	903.7	903.7	903.7	909.5	915.3
22.5°	887.8	886.3	887.8	895.0	900.8
25°	867.5	868.9	868.9	876.2	882.0
27.5°	848.6	847.2	850.1	855.9	863.1
30°	826.9	826.9	828.3	835.6	842.8
32.5°	805.1	803.6	805.1	812.3	819.6
35°	779.0	779.0	779.0	787.7	794.9
37.5°	752.9	751.4	751.4	760.1	770.3
40°	723.9	722.4	722.4	732.6	739.8
42.5°	696.3	694.8	694.8	703.6	713.7
45°	667.3	662.9	662.9	673.1	683.2
47.5°	633.9	631.0	632.5	641.2	651.3
50°	602.0	597.7	596.2	606.4	616.5
52.5°	567.2	565.7	561.4	570.1	581.7
55°	530.9	529.5	525.1	533.8	545.4
57.5°	496.1	491.8	487.4	494.7	507.7
60°	456.9	452.6	446.8	456.9	468.6
62.5°	417.8	412.0	407.6	416.3	429.4
65°	375.7	371.4	365.6	377.2	390.2
67.5°	336.5	332.2	324.9	335.1	343.8
70°	293.0	287.2	284.3	285.8	288.7
72.5°	251.0	248.1	243.7	232.1	229.2
75°	208.9	204.5	195.8	174.1	166.8
77.5°	166.8	163.9	148.0	129.1	129.1
80°	123.3	121.9	103.0	105.9	107.3
82.5°	84.1	81.2	75.4	74.0	74.0
85°	45.0	42.1	43.5	42.1	42.1
87.5°	17.4	17.4	18.9	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)