

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: P392823

Luminaire Tested: **12EN-LD2-23-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-36)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 12EN-LD2-23-UNV-L92765-W2A-1-U (5000K)  
Description: 1X2 ENCOUNTER, 2300 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1934.9 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

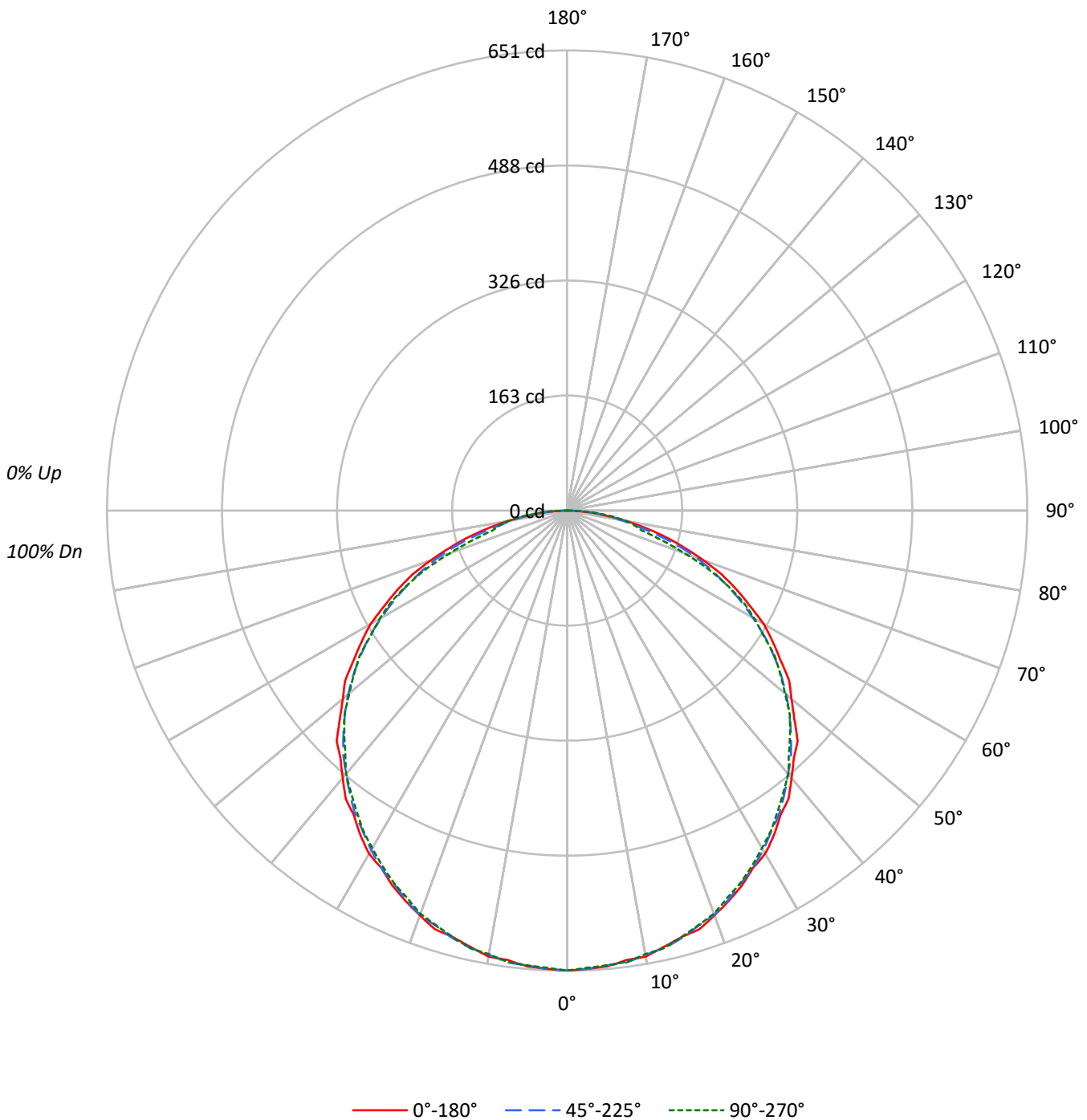
Input Watts (W): 19.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83																												
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																												
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																												
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																												
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																												
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																												
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																												
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																												
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																												
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23																												

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3502	3502	3502
5°	3497	3488	3488
10°	3501	3487	3482
15°	3480	3490	3480
20°	3490	3486	3476
25°	3474	3454	3449
30°	3483	3447	3426
35°	3456	3439	3411
40°	3470	3417	3417
45°	3510	3407	3394
50°	3466	3388	3367
55°	3456	3345	3361
60°	3456	3266	3294
65°	3371	3167	3177
70°	3223	3064	2773
75°	2996	2716	2279
80°	2613	2352	2638
85°	2081	2501	2550



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.5	3.2
10°-20°	176.7	9.1
20°-30°	268.8	13.9
30°-40°	327.4	16.9
40°-50°	346.9	17.9
50°-60°	321.3	16.6
60°-70°	249.9	12.9
70°-80°	139.3	7.2
80°-90°	43.1	2.2
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°	506.9	26.2
0°-40°	834.4	43.1
0°-60°	1502.6	77.7
0°-90°	1934.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1934.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	647	645	646	647	646	61
15°	625	627	626	626	625	177
25°	585	585	582	580	581	270
35°	526	526	523	521	519	331
45°	461	454	448	444	446	353
55°	368	365	356	354	358	330
65°	265	259	249	251	250	261
75°	144	140	131	117	110	151
85°	34	35	40	41	41	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	650.7	650.7	650.7	650.7	650.7
2.5°	649.0	649.0	649.0	649.0	647.3
5°	647.3	644.8	645.7	647.3	645.7
7.5°	641.4	644.0	644.8	644.8	644.0
10°	640.6	638.1	638.1	638.1	637.2
12.5°	632.2	633.0	633.9	633.9	633.9
15°	624.6	627.1	626.3	626.3	624.6
17.5°	621.2	617.0	616.2	616.2	615.3
20°	609.4	607.7	608.6	606.9	606.9
22.5°	597.6	596.8	595.9	595.1	592.6
25°	585.0	585.0	581.6	579.9	580.8
27.5°	569.8	571.5	569.8	568.1	566.4
30°	560.5	556.3	554.6	552.9	551.3
32.5°	544.5	542.8	537.8	535.2	536.9
35°	526.0	526.0	523.4	520.9	519.2
37.5°	514.2	509.1	504.9	502.4	502.4
40°	493.9	493.9	486.4	483.0	486.4
42.5°	474.6	474.6	468.7	467.0	464.4
45°	461.1	453.5	447.6	444.2	445.9
47.5°	435.8	434.1	426.5	424.0	427.3
50°	413.9	413.0	404.6	402.9	402.1
52.5°	396.2	388.6	381.0	378.5	380.1
55°	368.3	365.0	356.5	354.0	358.2
57.5°	344.7	341.4	331.3	329.6	329.6
60°	321.1	313.6	303.4	301.8	306.0
62.5°	290.8	287.4	276.5	277.3	281.5
65°	264.7	258.8	248.7	251.2	249.5
67.5°	236.9	230.1	221.7	218.3	215.8
70°	204.8	200.6	194.7	182.9	176.2
72.5°	172.8	169.4	163.5	146.7	141.6
75°	144.1	139.9	130.6	117.2	109.6
77.5°	112.9	112.9	100.3	94.4	97.8
80°	84.3	85.1	75.9	82.6	85.1
82.5°	57.3	56.5	62.4	64.9	64.9
85°	33.7	34.6	40.5	41.3	41.3
87.5°	13.5	16.0	18.5	19.4	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)