

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P892651

Luminaire Tested: 2MB-3SL-LVR-UNV-L940

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P892651  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-3SL-LVR-UNV-L940  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT  
Light Source: -  
Ballast/Driver: -

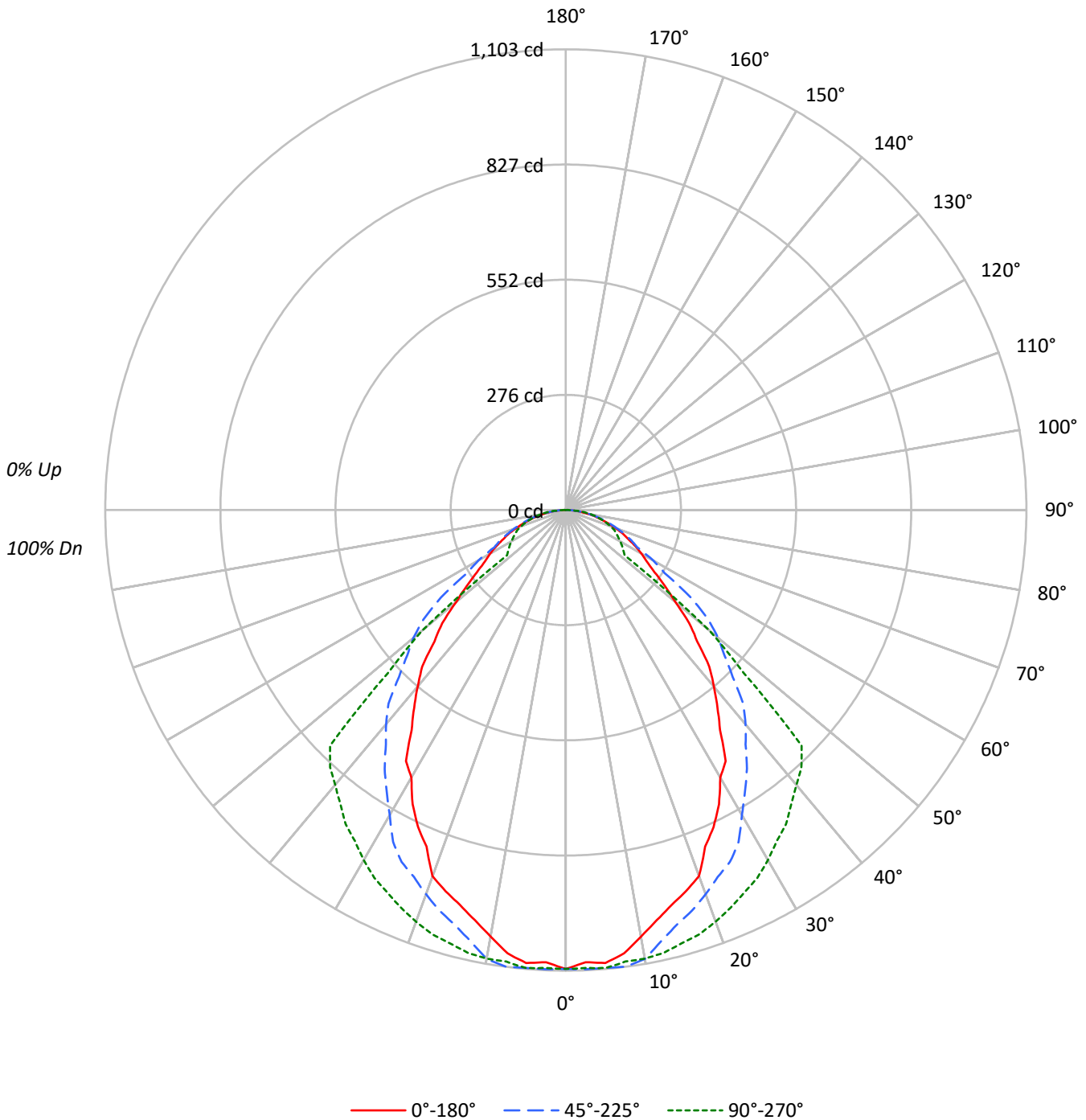
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2292.0 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.3 / 1.26  
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 8  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	42	42	42	40
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	38	37
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

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

	0°	45°	90°
0°	15716	15716	15716
5°	15632	15805	15805
10°	15059	15857	15842
15°	14496	15220	15900
20°	14202	14901	15965
25°	13215	14679	15955
30°	12214	13927	15988
35°	11240	13208	16049
40°	10305	12503	16043
45°	9003	11426	16148
50°	7616	10594	9993
55°	6470	9108	4180
60°	5994	6910	4312
65°	5572	5876	4526
70°	5258	5550	4756
75°	4853	5240	4908
80°	4440	4852	5182
85°	3923	4415	5564

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 16148 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.2	4.5
10°-20°	291.7	12.7
20°-30°	423.9	18.5
30°-40°	480.0	20.9
40°-50°	448.4	19.6
50°-60°	254.8	11.1
60°-70°	160.1	7.0
70°-80°	98.2	4.3
80°-90°	30.8	1.3
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°	819.7	35.8
0°-40°	1299.7	56.7
0°-60°	2002.9	87.4
0°-90°	2292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2292.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1089	1100	1101	1097	1101	102
15°	979	996	1028	1084	1074	277
25°	837	853	930	972	1011	384
35°	644	686	756	855	919	406
45°	445	491	565	717	798	347
55°	259	283	365	192	168	237
65°	165	171	174	151	134	165
75°	88	91	95	97	89	94
85°	24	25	27	30	34	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1098.6	1098.6	1098.6	1098.6	1098.6
2.5°	1083.6	1095.6	1100.6	1099.6	1097.6
5°	1088.6	1099.6	1100.6	1096.6	1100.6
7.5°	1070.6	1096.6	1102.6	1092.6	1090.6
10°	1036.7	1051.7	1091.6	1095.6	1090.6
12.5°	1005.8	1023.7	1056.7	1095.6	1085.6
15°	978.8	995.8	1027.7	1083.6	1073.6
17.5°	956.9	962.9	1005.8	1070.6	1064.7
20°	932.9	944.9	978.8	1038.7	1048.7
22.5°	872.1	905.0	950.9	1010.8	1030.7
25°	837.2	853.1	930.0	971.9	1010.8
27.5°	794.3	823.2	896.0	941.9	992.8
30°	739.4	772.3	843.1	911.0	967.9
32.5°	712.4	724.4	798.2	886.1	939.9
35°	643.6	686.5	756.3	855.1	919.0
37.5°	596.7	622.6	707.4	825.2	887.0
40°	551.8	581.7	669.5	792.3	859.1
42.5°	508.9	535.8	628.6	759.3	835.2
45°	445.0	490.9	564.8	717.4	798.2
47.5°	401.1	430.1	514.9	666.5	578.7
50°	342.2	377.2	476.0	457.0	449.0
52.5°	299.3	318.3	429.1	386.2	177.6
55°	259.4	283.4	365.2	191.6	167.6
57.5°	229.5	245.5	280.4	177.6	159.6
60°	209.5	213.5	241.5	169.6	150.7
62.5°	187.6	191.6	192.6	160.6	141.7
65°	164.6	170.6	173.6	150.7	133.7
67.5°	147.7	148.7	152.7	139.7	125.7
70°	125.7	127.7	132.7	127.7	113.7
72.5°	106.8	109.8	112.8	113.7	101.8
75°	87.8	90.8	94.8	96.8	88.8
77.5°	71.8	72.8	76.8	81.8	75.8
80°	53.9	56.9	58.9	63.9	62.9
82.5°	38.9	39.9	42.9	46.9	48.9
85°	23.9	24.9	26.9	29.9	33.9
87.5°	10.0	11.0	12.0	14.0	16.0
90°	0.0	0.0	0.0	0.0	0.0



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.29	18.77	17.65	19.08	19.40	15.03	16.51	15.40	16.83	17.14
	3H	18.88	20.20	19.25	20.53	20.89	17.37	18.69	17.75	19.02	19.38
	4H	19.48	20.72	19.88	21.07	21.45	18.31	19.55	18.71	19.90	20.28
	6H	19.94	21.08	20.35	21.45	21.84	19.10	20.25	19.52	20.61	21.01
	8H	20.09	21.18	20.52	21.57	21.97	19.41	20.50	19.84	20.89	21.29
	12H	20.19	21.23	20.62	21.61	22.04	19.66	20.70	20.09	21.08	21.51
4H	2H	17.86	19.10	18.26	19.45	19.83	16.19	17.43	16.59	17.78	18.16
	3H	19.68	20.71	20.09	21.11	21.51	18.63	19.65	19.04	20.06	20.46
	4H	20.41	21.34	20.85	21.75	22.19	19.68	20.60	20.11	21.02	21.46
	6H	21.01	21.81	21.46	22.25	22.71	20.57	21.38	21.03	21.82	22.28
	8H	21.20	21.95	21.67	22.40	22.87	20.92	21.67	21.38	22.11	22.58
	12H	21.34	22.02	21.83	22.49	22.97	21.20	21.87	21.69	22.35	22.82
8H	4H	20.72	21.47	21.18	21.92	22.38	20.08	20.83	20.54	21.28	21.74
	6H	21.44	22.06	21.94	22.56	23.03	21.12	21.74	21.62	22.24	22.72
	8H	21.71	22.27	22.23	22.78	23.27	21.56	22.12	22.08	22.63	23.12
	12H	21.93	22.43	22.44	22.92	23.49	21.95	22.44	22.46	22.94	23.50
12H	4H	20.75	21.43	21.24	21.90	22.38	20.12	20.79	20.60	21.27	21.74
	6H	21.51	22.07	22.02	22.58	23.07	21.19	21.75	21.71	22.26	22.75
	8H	21.84	22.34	22.35	22.83	23.39	21.70	22.19	22.21	22.69	23.25