

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: P892649

Luminaire Tested: 2MB-3SL-LVR-UNV-L930

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P892649  
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-L930  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

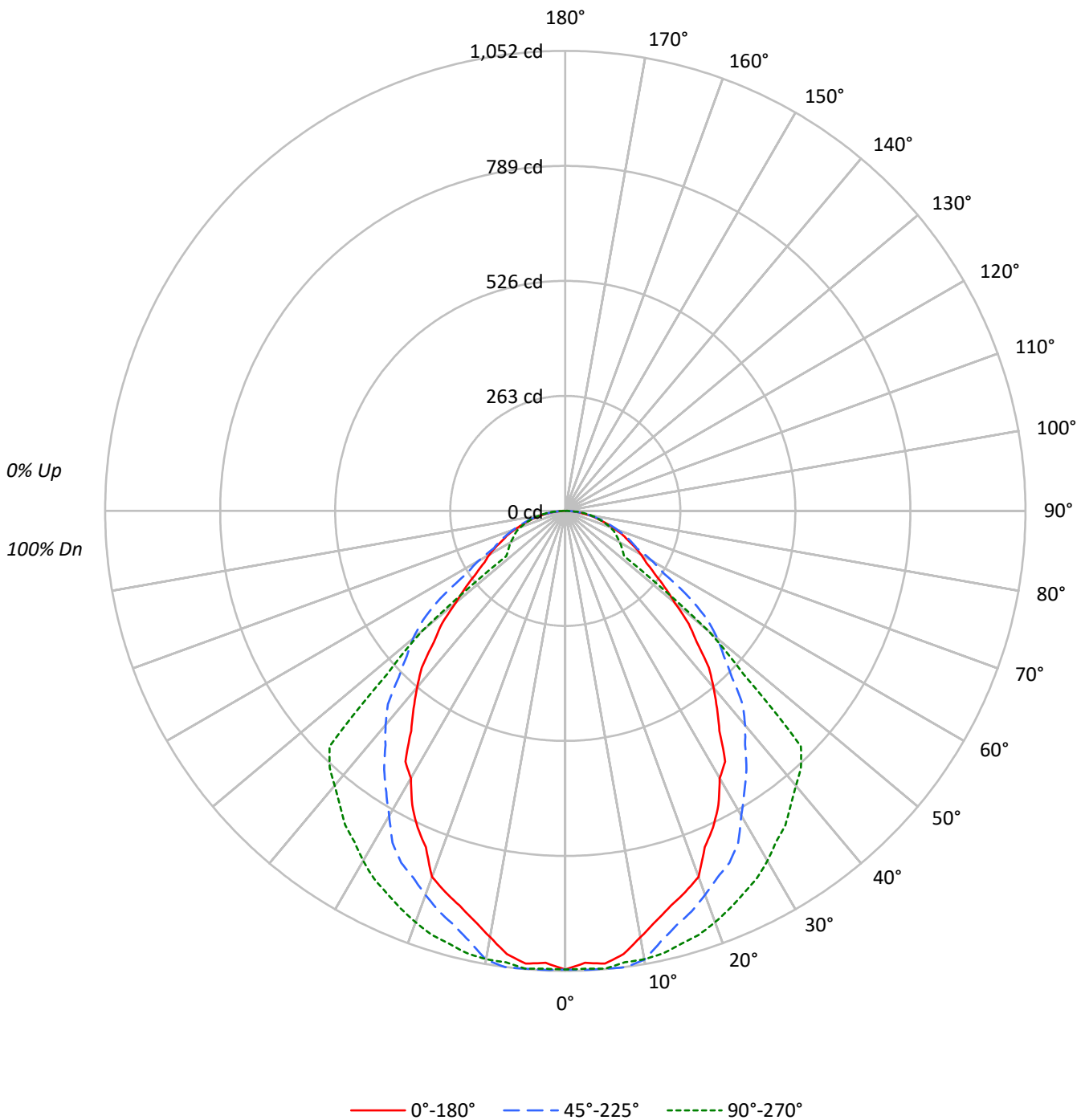
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2188.0 lumens  
Efficiency: N/A  
Efficacy: 104.2 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°	15002	15002	15002
5°	14923	15087	15087
10°	14377	15138	15123
15°	13839	14530	15179
20°	13558	14225	15240
25°	12615	14013	15230
30°	11659	13296	15263
35°	10730	12609	15321
40°	9836	11935	15315
45°	8594	10907	15416
50°	7271	10113	9539
55°	6178	8694	3991
60°	5722	6595	4114
65°	5321	5609	4319
70°	5019	5299	4542
75°	4632	5002	4687
80°	4234	4630	4943
85°	3759	4218	5318

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 15416 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.4	4.5
10°-20°	278.4	12.7
20°-30°	404.7	18.5
30°-40°	458.2	20.9
40°-50°	428.0	19.6
50°-60°	243.2	11.1
60°-70°	152.8	7.0
70°-80°	93.8	4.3
80°-90°	29.4	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°	782.5	35.8
0°-40°	1240.7	56.7
0°-60°	1912.0	87.4
0°-90°	2188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2188.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1049	1049	1049	1049	1049	
5°	1039	1050	1051	1047	1051	98
15°	934	951	981	1034	1025	264
25°	799	814	888	928	965	367
35°	614	655	722	816	877	387
45°	425	469	539	685	762	331
55°	248	270	349	183	160	227
65°	157	163	166	144	128	158
75°	84	87	90	92	85	90
85°	23	24	26	29	32	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1048.7	1048.7	1048.7	1048.7	1048.7
2.5°	1034.4	1045.9	1050.6	1049.7	1047.8
5°	1039.2	1049.7	1050.6	1046.8	1050.6
7.5°	1022.1	1046.8	1052.5	1043.0	1041.1
10°	989.7	1004.0	1042.1	1045.9	1041.1
12.5°	960.1	977.3	1008.7	1045.9	1036.4
15°	934.4	950.6	981.1	1034.4	1024.9
17.5°	913.5	919.2	960.1	1022.1	1016.3
20°	890.6	902.0	934.4	991.6	1001.1
22.5°	832.5	863.9	907.8	964.9	984.0
25°	799.2	814.4	887.8	927.8	964.9
27.5°	758.2	785.8	855.4	899.2	947.8
30°	705.8	737.3	804.9	869.7	924.0
32.5°	680.1	691.5	762.0	845.8	897.3
35°	614.4	655.3	722.0	816.3	877.3
37.5°	569.6	594.4	675.3	787.7	846.8
40°	526.7	555.3	639.1	756.3	820.1
42.5°	485.8	511.5	600.1	724.9	797.3
45°	424.8	468.6	539.1	684.9	762.0
47.5°	382.9	410.5	491.5	636.3	552.5
50°	326.7	360.1	454.4	436.3	428.6
52.5°	285.8	303.9	409.6	368.6	169.6
55°	247.7	270.5	348.6	182.9	160.0
57.5°	219.1	234.3	267.7	169.6	152.4
60°	200.0	203.8	230.5	161.9	143.8
62.5°	179.1	182.9	183.8	153.4	135.3
65°	157.2	162.9	165.7	143.8	127.6
67.5°	141.0	141.9	145.7	133.4	120.0
70°	120.0	121.9	126.7	121.9	108.6
72.5°	101.9	104.8	107.6	108.6	97.2
75°	83.8	86.7	90.5	92.4	84.8
77.5°	68.6	69.5	73.3	78.1	72.4
80°	51.4	54.3	56.2	61.0	60.0
82.5°	37.1	38.1	41.0	44.8	46.7
85°	22.9	23.8	25.7	28.6	32.4
87.5°	9.5	10.5	11.4	13.3	15.2
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	17.13	18.61	17.49	18.92	19.23	14.87	16.35	15.24	16.67	16.98
	3H	18.71	20.04	19.09	20.37	20.73	17.21	18.53	17.59	18.86	19.22
	4H	19.32	20.56	19.72	20.90	21.28	18.15	19.39	18.55	19.74	20.12
	6H	19.78	20.92	20.19	21.29	21.68	18.94	20.09	19.36	20.46	20.85
	8H	19.93	21.02	20.36	21.41	21.81	19.25	20.34	19.68	20.73	21.13
	12H	20.03	21.07	20.46	21.45	21.88	19.50	20.54	19.93	20.92	21.35
4H	2H	17.70	18.94	18.10	19.29	19.67	16.03	17.27	16.43	17.62	18.00
	3H	19.52	20.54	19.93	20.94	21.35	18.47	19.49	18.88	19.89	20.30
	4H	20.25	21.17	20.68	21.59	22.03	19.52	20.44	19.95	20.86	21.30
	6H	20.84	21.65	21.30	22.09	22.55	20.41	21.21	20.87	21.66	22.12
	8H	21.04	21.79	21.50	22.24	22.70	20.76	21.51	21.22	21.95	22.42
	12H	21.18	21.85	21.67	22.33	22.80	21.04	21.71	21.53	22.19	22.66
8H	4H	20.56	21.31	21.02	21.75	22.22	19.92	20.67	20.38	21.11	21.58
	6H	21.28	21.90	21.78	22.39	22.87	20.96	21.58	21.46	22.08	22.55
	8H	21.55	22.11	22.07	22.62	23.11	21.40	21.96	21.92	22.47	22.96
	12H	21.77	22.27	22.28	22.76	23.33	21.79	22.28	22.30	22.78	23.34
12H	4H	20.59	21.26	21.08	21.74	22.21	19.96	20.63	20.44	21.11	21.58
	6H	21.34	21.90	21.86	22.42	22.90	21.03	21.59	21.55	22.10	22.59
	8H	21.68	22.17	22.19	22.67	23.23	21.54	22.03	22.05	22.53	23.09