

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: P892658

Luminaire Tested: 2MB-3SL-LVRA-UNV-L935

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P892658  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-3SL-LVRA-UNV-L935  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

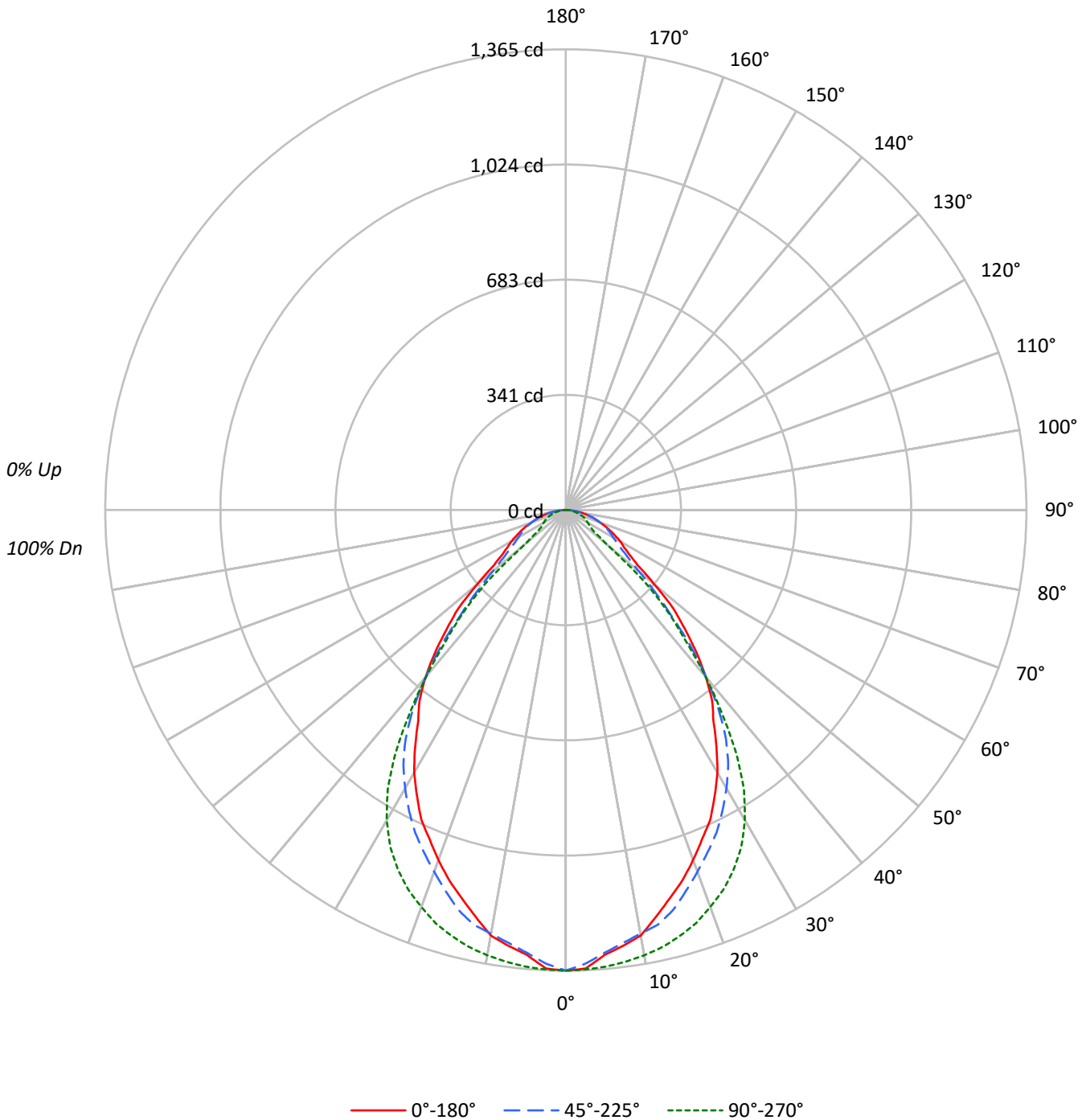
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2215.0 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12  
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	88	
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	78	
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	62	
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	55	
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	50	
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	45	
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	41	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	38	
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	35	

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

	0°	45°	90°
0°	19524	19524	19524
5°	18997	18912	19503
10°	18594	18512	19458
15°	17634	18176	19348
20°	16798	17366	19052
25°	15979	16662	18567
30°	14845	15729	17529
35°	13311	14455	15375
40°	12060	12086	12021
45°	10083	8930	8709
50°	7618	6287	3561
55°	5729	5028	2245
60°	5325	4629	2163
65°	4952	4620	2166
70°	4530	4530	2133
75°	4295	4411	2062
80°	3971	4177	2117
85°	3463	3644	2314

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10318 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.1	5.7
10°-20°	347.4	15.7
20°-30°	492.6	22.2
30°-40°	507.5	22.9
40°-50°	354.4	16.0
50°-60°	170.1	7.7
60°-70°	119.3	5.4
70°-80°	74.6	3.4
80°-90°	23.1	1.0
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°	966.0	43.6
0°-40°	1473.5	66.5
0°-60°	1998.0	90.2
0°-90°	2215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2215.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1365	1365	1365	1365	1365	
5°	1323	1321	1317	1351	1358	125
15°	1191	1200	1227	1262	1306	335
25°	1012	1022	1056	1127	1176	463
35°	762	783	828	845	880	480
45°	498	510	441	419	430	384
55°	230	218	202	129	90	215
65°	146	137	136	104	64	145
75°	78	77	80	69	37	82
85°	21	21	22	22	14	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1364.8	1364.8	1364.8	1364.8	1364.8
2.5°	1359.5	1355.3	1345.1	1363.7	1362.3
5°	1322.9	1321.2	1317.0	1351.4	1358.1
7.5°	1302.2	1298.7	1293.7	1331.7	1350.4
10°	1280.0	1284.2	1274.4	1309.2	1339.5
12.5°	1234.3	1245.5	1258.9	1286.0	1326.1
15°	1190.7	1199.5	1227.3	1262.4	1306.4
17.5°	1149.9	1160.1	1184.0	1236.8	1283.5
20°	1103.4	1117.5	1140.7	1208.3	1251.5
22.5°	1055.6	1068.6	1097.8	1170.3	1218.5
25°	1012.3	1022.5	1055.6	1127.0	1176.3
27.5°	955.0	974.0	1005.3	1074.2	1126.0
30°	898.7	914.9	952.2	1010.2	1061.2
32.5°	830.8	854.4	895.6	939.9	982.4
35°	762.2	783.0	827.7	844.9	880.4
37.5°	712.3	717.9	743.2	741.1	761.2
40°	645.8	657.1	647.2	620.8	643.7
42.5°	574.1	587.4	547.7	517.1	525.2
45°	498.4	510.0	441.4	418.9	430.5
47.5°	433.0	431.9	356.0	340.8	324.7
50°	342.3	353.5	282.5	254.3	160.0
52.5°	267.3	271.6	232.9	162.5	105.2
55°	229.7	218.4	201.6	129.1	90.0
57.5°	204.0	189.9	178.7	119.9	82.3
60°	186.1	170.2	161.8	114.0	75.6
62.5°	165.7	153.4	150.2	108.7	69.6
65°	146.3	136.8	136.5	103.8	64.0
67.5°	127.0	121.7	123.1	97.8	57.7
70°	108.3	107.3	108.3	90.0	51.0
72.5°	92.5	91.5	94.3	80.2	43.6
75°	77.7	76.7	79.8	68.9	37.3
77.5°	61.9	62.6	64.7	57.3	31.3
80°	48.2	48.2	50.7	45.0	25.7
82.5°	34.5	34.8	36.2	33.1	20.0
85°	21.1	21.1	22.2	21.8	14.1
87.5°	7.0	8.1	9.5	10.2	7.0
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	15.97	17.32	16.34	17.64	17.95	12.30	13.65	12.67	13.97	14.28
	3H	17.71	18.92	18.09	19.25	19.61	14.28	15.49	14.66	15.81	16.18
	4H	18.38	19.51	18.78	19.86	20.24	14.98	16.11	15.38	16.46	16.84
	6H	18.89	19.93	19.30	20.30	20.69	15.51	16.54	15.92	16.91	17.31
	8H	19.06	20.04	19.49	20.43	20.84	15.69	16.68	16.12	17.07	17.47
	12H	19.17	20.11	19.60	20.49	20.92	15.83	16.77	16.26	17.16	17.59
4H	2H	16.50	17.63	16.90	17.98	18.36	13.92	15.05	14.33	15.40	15.78
	3H	18.48	19.41	18.89	19.81	20.21	16.10	17.03	16.52	17.44	17.84
	4H	19.28	20.12	19.72	20.53	20.98	16.98	17.82	17.42	18.24	18.68
	6H	19.92	20.65	20.39	21.09	21.56	17.63	18.35	18.09	18.79	19.26
	8H	20.14	20.82	20.61	21.27	21.74	17.83	18.51	18.30	18.96	19.43
	12H	20.30	20.90	20.78	21.38	21.85	17.99	18.59	18.48	19.07	19.55
8H	4H	19.56	20.24	20.03	20.69	21.16	17.63	18.31	18.10	18.75	19.22
	6H	20.35	20.90	20.85	21.40	21.88	18.49	19.05	18.99	19.54	20.02
	8H	20.65	21.15	21.17	21.66	22.15	18.82	19.32	19.34	19.83	20.32
	12H	20.89	21.33	21.40	21.82	22.39	19.08	19.52	19.60	20.02	20.59
12H	4H	19.58	20.18	20.07	20.66	21.14	17.70	18.30	18.19	18.79	19.26
	6H	20.40	20.90	20.92	21.41	21.90	18.63	19.13	19.15	19.64	20.13
	8H	20.76	21.21	21.28	21.70	22.27	19.04	19.48	19.56	19.98	20.55