

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: P892650

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

Issue Date: 11/11/2024

**Test Information**

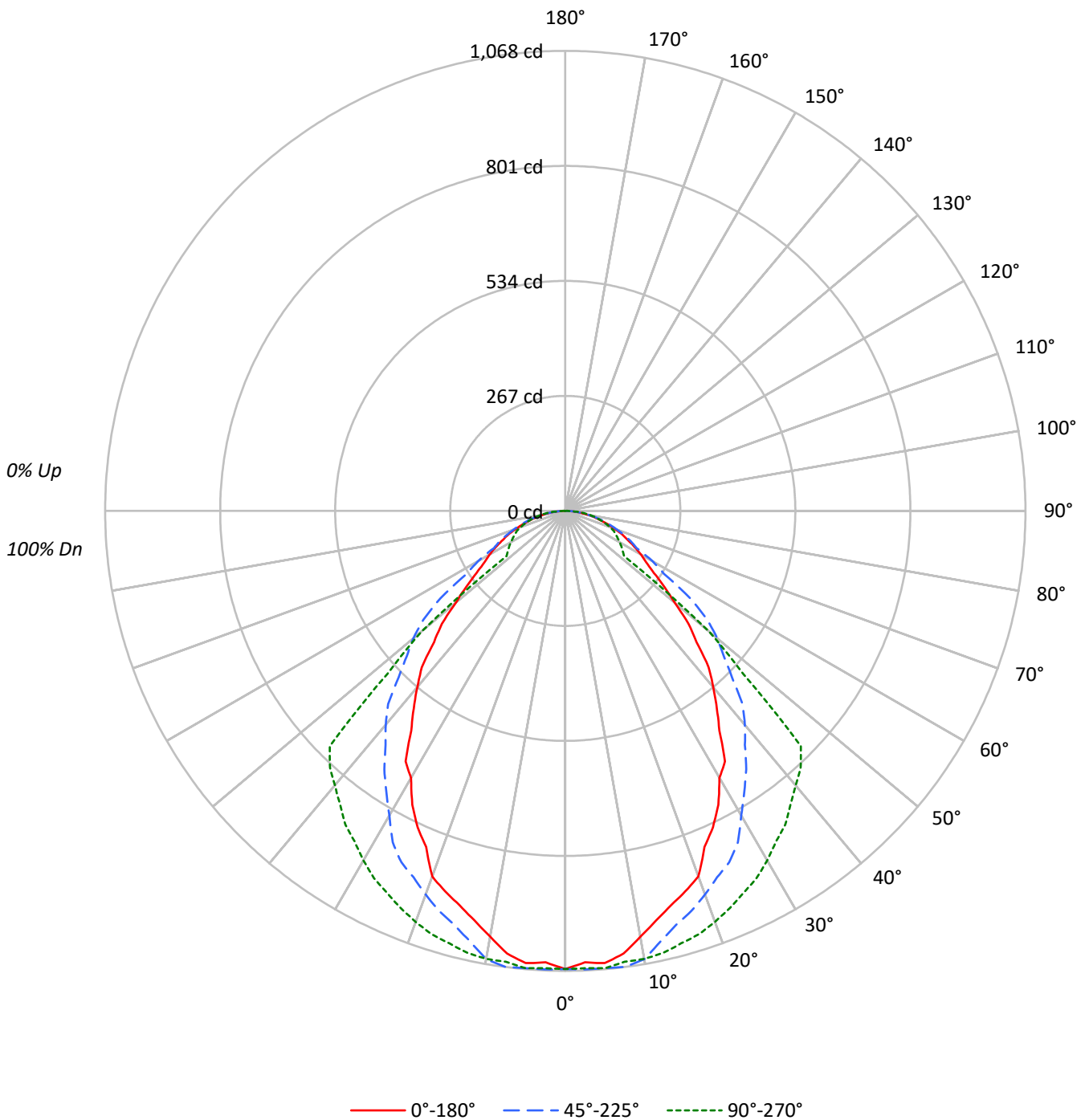
Test Method: LM-79-2019  
Report Number: P892650  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-3SL-LVR-UNV-L935  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2219.0 lumens  
Efficiency: N/A  
Efficacy: 105.7 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75		
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65		
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57		
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51		
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45		
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40		
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37		
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33		
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30		

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

	0°	45°	90°
0°	15215	15215	15215
5°	15134	15301	15301
10°	14580	15351	15338
15°	14036	14736	15394
20°	13750	14427	15457
25°	12793	14211	15447
30°	11824	13484	15478
35°	10882	12787	15538
40°	9976	12105	15532
45°	8716	11062	15635
50°	7373	10255	9674
55°	6265	8819	4048
60°	5805	6689	4174
65°	5396	5690	4380
70°	5090	5375	4605
75°	4698	5074	4753
80°	4300	4696	5017
85°	3808	4284	5384

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 15635 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.8	4.5
10°-20°	282.4	12.7
20°-30°	410.4	18.5
30°-40°	464.7	20.9
40°-50°	434.1	19.6
50°-60°	246.7	11.1
60°-70°	155.0	7.0
70°-80°	95.1	4.3
80°-90°	29.8	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°	793.6	35.8
0°-40°	1258.3	56.7
0°-60°	1939.1	87.4
0°-90°	2219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2219.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1054	1065	1066	1062	1066	99
15°	948	964	995	1049	1039	268
25°	810	826	900	941	979	372
35°	623	665	732	828	890	393
45°	431	475	547	695	773	336
55°	251	274	354	186	162	230
65°	159	165	168	146	129	160
75°	85	88	92	94	86	91
85°	23	24	26	29	33	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1063.6	1063.6	1063.6	1063.6	1063.6
2.5°	1049.1	1060.7	1065.5	1064.6	1062.6
5°	1053.9	1064.6	1065.5	1061.7	1065.5
7.5°	1036.5	1061.7	1067.5	1057.8	1055.9
10°	1003.7	1018.2	1056.8	1060.7	1055.9
12.5°	973.8	991.1	1023.0	1060.7	1051.0
15°	947.7	964.1	995.0	1049.1	1039.4
17.5°	926.4	932.2	973.8	1036.5	1030.7
20°	903.2	914.8	947.7	1005.6	1015.3
22.5°	844.3	876.2	920.6	978.6	997.9
25°	810.5	826.0	900.3	940.9	978.6
27.5°	769.0	797.0	867.5	911.9	961.2
30°	715.8	747.7	816.3	882.0	937.0
32.5°	689.7	701.3	772.8	857.8	910.0
35°	623.1	664.6	732.2	827.9	889.7
37.5°	577.7	602.8	684.9	798.9	858.8
40°	534.2	563.2	648.2	767.0	831.7
42.5°	492.7	518.8	608.6	735.1	808.6
45°	430.8	475.3	546.8	694.6	772.8
47.5°	388.3	416.4	498.5	645.3	560.3
50°	331.3	365.2	460.8	442.4	434.7
52.5°	289.8	308.2	415.4	373.9	172.0
55°	251.2	274.4	353.6	185.5	162.3
57.5°	222.2	237.6	271.5	172.0	154.6
60°	202.9	206.7	233.8	164.2	145.9
62.5°	181.6	185.5	186.4	155.5	137.2
65°	159.4	165.2	168.1	145.9	129.4
67.5°	143.0	143.9	147.8	135.2	121.7
70°	121.7	123.7	128.5	123.7	110.1
72.5°	103.4	106.3	109.2	110.1	98.5
75°	85.0	87.9	91.8	93.7	86.0
77.5°	69.6	70.5	74.4	79.2	73.4
80°	52.2	55.1	57.0	61.8	60.9
82.5°	37.7	38.6	41.5	45.4	47.3
85°	23.2	24.2	26.1	29.0	32.8
87.5°	9.7	10.6	11.6	13.5	15.5
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	17.17	18.65	17.54	18.97	19.28	14.92	16.40	15.29	16.72	17.03
	3H	18.76	20.09	19.14	20.41	20.78	17.26	18.58	17.64	18.91	19.27
	4H	19.37	20.60	19.77	20.95	21.33	18.20	19.44	18.60	19.79	20.17
	6H	19.83	20.97	20.24	21.34	21.73	18.99	20.14	19.40	20.50	20.90
	8H	19.98	21.07	20.41	21.46	21.86	19.30	20.39	19.73	20.78	21.18
	12H	20.08	21.12	20.51	21.50	21.93	19.55	20.59	19.98	20.97	21.40
4H	2H	17.75	18.99	18.15	19.33	19.71	16.08	17.32	16.48	17.67	18.05
	3H	19.57	20.59	19.98	20.99	21.40	18.52	19.54	18.93	19.94	20.35
	4H	20.30	21.22	20.73	21.64	22.08	19.57	20.49	20.00	20.91	21.34
	6H	20.89	21.70	21.35	22.14	22.60	20.46	21.26	20.92	21.71	22.17
	8H	21.09	21.84	21.55	22.29	22.75	20.81	21.56	21.27	22.00	22.47
	12H	21.23	21.90	21.72	22.38	22.85	21.09	21.76	21.57	22.24	22.71
8H	4H	20.61	21.36	21.07	21.80	22.27	19.97	20.72	20.43	21.16	21.63
	6H	21.33	21.95	21.83	22.44	22.92	21.01	21.63	21.51	22.12	22.60
	8H	21.60	22.16	22.12	22.67	23.16	21.45	22.01	21.96	22.52	23.01
	12H	21.82	22.32	22.33	22.81	23.38	21.83	22.33	22.34	22.82	23.39
12H	4H	20.64	21.31	21.12	21.79	22.26	20.01	20.68	20.49	21.16	21.63
	6H	21.39	21.95	21.91	22.46	22.95	21.08	21.64	21.59	22.15	22.64
	8H	21.73	22.22	22.24	22.72	23.28	21.58	22.08	22.09	22.57	23.14