

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: P892498

Luminaire Tested: 2MB-2SL-ASMF-UNV-L935

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P892498  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-185-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-2SL-ASMF-UNV-L935  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

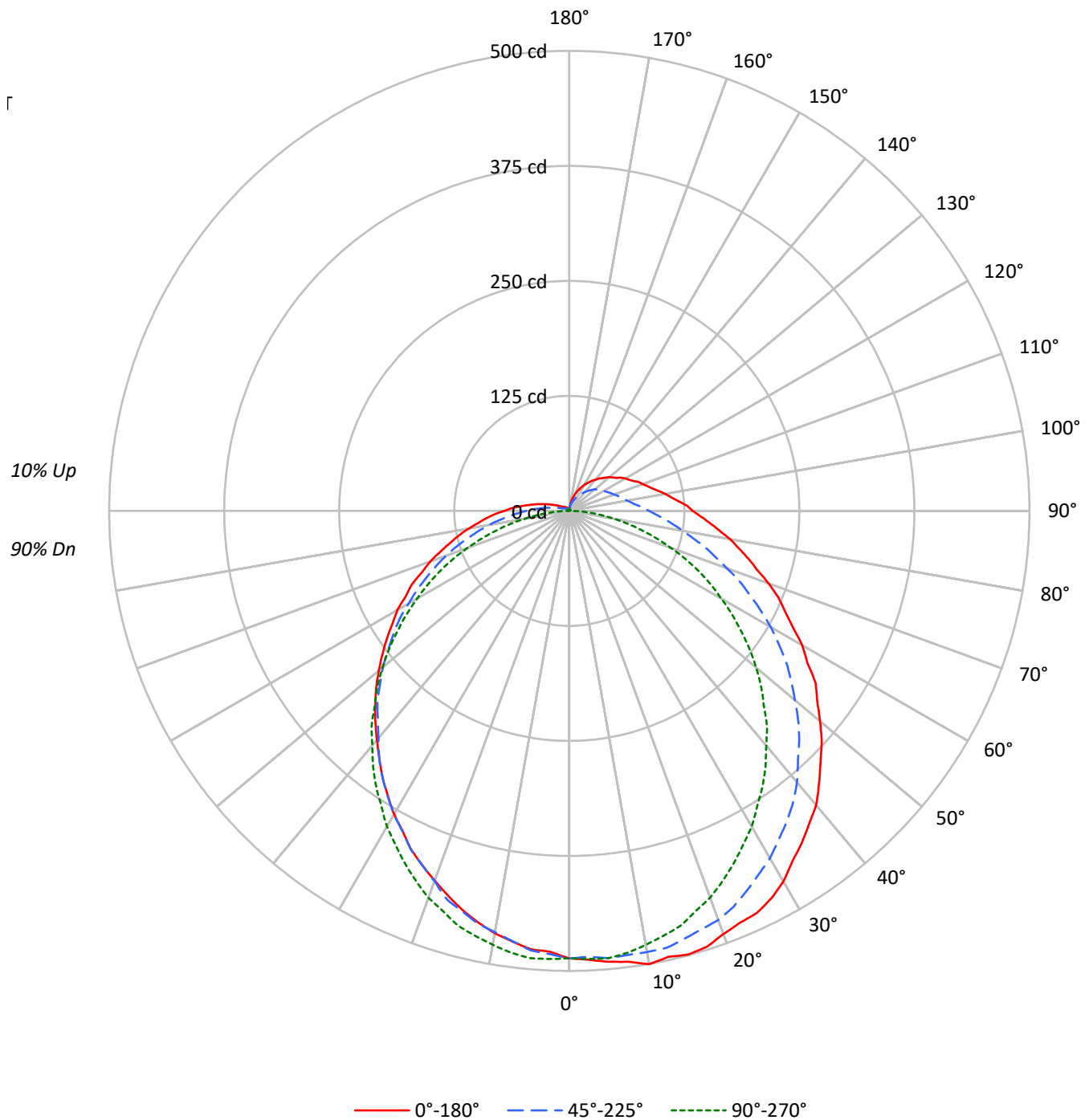
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1672.0 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 14.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.92  
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				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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	90
1	105	99	95	90	101	96	92	88	90	87	83	85	82	79	79	77	75	75	75	75	72
2	95	86	79	72	91	83	76	71	78	72	68	73	69	65	69	65	62	62	62	62	59
3	86	75	66	60	83	73	65	58	68	62	56	64	59	54	60	56	52	52	52	52	49
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	44	44	44	44	42
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	48	43	38	38	38	38	36
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	34	34	34	34	31
7	62	48	39	33	59	47	38	32	44	37	32	42	36	31	40	34	30	30	30	30	28
8	57	44	35	29	55	43	35	29	41	33	28	39	32	27	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	24	24	24	22
10	50	37	29	24	49	36	29	23	34	28	23	33	27	22	31	26	22	22	22	22	20

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

	0°	45°	90°	135°	180°
0°	9958	9958	9958	9958	9958
5°	10055	9710	9634	9541	9777
10°	10286	9490	9196	9063	9585
15°	10406	9274	8789	8669	9358
20°	10427	9066	8323	8204	9110
25°	10583	8759	7833	7815	8917
30°	10612	8464	7368	7397	8687
35°	10547	8144	6881	6995	8469
40°	10598	7814	6379	6545	8253
45°	10516	7428	5884	6200	8114
50°	10538	7031	5409	5807	8002
55°	10701	6683	4864	5414	7921
60°	10790	6255	4307	4997	7962
65°	11039	5795	3740	4584	8052
70°	11759	5352	3065	4188	8198
75°	12907	5022	2345	3731	8560
80°	15393	4701	1572	3323	9646
85°	20930	4603	788	2905	12307

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 90°  
 Luminance: 43441 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.1	2.8
10°-20°	132.2	7.9
20°-30°	199.4	11.9
30°-40°	239.4	14.3
40°-50°	249.2	14.9
50°-60°	231.0	13.8
60°-70°	190.3	11.4
70°-80°	137.2	8.2
80°-90°	87.1	5.2
90°-100°	53.7	3.2
100°-110°	35.8	2.1
110°-120°	25.5	1.5
120°-130°	18.7	1.1
130°-140°	12.8	0.8
140°-150°	7.8	0.5
150°-160°	3.9	0.2
160°-170°	1.4	0.1
170°-180°	0.2	0.0
0°-30°	377.8	22.6
0°-40°	617.2	36.9
0°-60°	1097.4	65.6
0°-90°	1512.1	90.4
90°-120°	115.0	6.9
90°-150°	154.4	9.2
90°-180°	160.0	9.6
0°-180°	1672.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	486	486	486	486	486	
5°	492	488	488	480	478	47
15°	499	482	467	450	449	141
25°	482	456	423	407	406	222
35°	441	412	366	354	354	276
45°	386	353	299	295	298	299
55°	327	288	228	233	242	290
65°	259	216	155	171	189	258
75°	202	153	82	114	134	214
85°	153	104	21	66	90	130
90°	134	87	2	47	70	74
95°	119	73	1	31	54	95
105°	94	57	1	13	28	100
115°	77	47	2	6	14	77
125°	62	40	2	5	8	57
135°	50	32	2	4	6	39
145°	38	22	2	3	4	24
155°	26	15	2	2	3	12
165°	15	8	2	1	2	4
175°	2	4	2	1	0	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3
2.5°	488.3	489.7	485.1	488.0	487.5	488.0	482.2	487.0	479.5
5°	491.9	492.6	488.0	489.7	488.0	483.9	479.5	477.8	478.3
7.5°	494.3	498.2	486.8	487.3	484.4	480.0	471.7	473.2	472.2
10°	500.2	495.8	486.8	484.6	479.0	474.4	464.9	465.6	466.1
12.5°	496.5	495.6	486.6	478.5	472.9	469.0	459.3	456.9	458.1
15°	499.2	495.1	481.7	475.4	466.9	460.1	450.3	448.6	448.9
17.5°	496.8	493.4	476.8	468.1	456.2	452.0	442.8	439.9	438.4
20°	489.5	487.8	473.2	458.1	447.4	439.4	428.2	426.5	427.7
22.5°	484.6	480.5	465.9	450.8	435.3	428.2	417.0	416.8	417.0
25°	482.2	476.8	455.9	440.1	422.8	416.5	406.8	403.2	406.3
27.5°	474.9	470.0	445.5	428.2	409.0	400.5	392.5	391.7	392.2
30°	465.2	455.7	436.0	414.8	396.3	387.6	381.0	376.2	380.8
32.5°	451.3	445.9	423.6	400.5	380.1	374.0	367.4	366.9	366.9
35°	440.6	436.7	411.9	387.8	366.0	357.7	353.8	352.1	353.8
37.5°	428.2	422.4	399.5	372.5	350.1	343.1	339.2	337.7	339.0
40°	417.5	406.8	384.9	356.7	332.9	326.6	322.4	323.9	325.1
42.5°	401.7	395.6	367.7	340.7	318.0	311.2	307.8	309.1	312.0
45°	386.1	380.5	353.3	323.9	298.8	295.2	294.9	294.2	297.9
47.5°	372.0	364.0	337.5	307.4	282.8	278.7	279.1	281.6	284.7
50°	355.7	346.3	320.0	289.6	265.0	262.4	264.3	266.0	270.1
52.5°	339.4	331.9	303.9	272.8	247.0	245.1	247.8	253.4	255.8
55°	326.8	313.2	288.1	253.1	227.8	228.1	233.4	236.6	241.9
57.5°	306.6	296.4	270.1	235.6	209.8	211.5	218.8	224.2	227.6
60°	292.3	279.4	252.6	216.9	190.9	193.6	201.8	209.8	215.7
62.5°	273.8	262.6	234.4	198.4	173.4	177.3	186.5	196.0	200.1
65°	258.7	246.1	216.4	179.9	155.1	159.8	171.2	181.9	188.7
67.5°	245.8	232.7	200.4	162.9	136.7	143.5	156.8	167.3	172.6
70°	230.5	215.2	182.1	143.9	117.4	125.5	142.5	154.6	160.7
72.5°	214.2	201.8	166.3	126.4	99.7	109.4	128.1	140.8	146.6
75°	201.6	187.7	152.9	108.9	81.7	93.4	113.6	127.9	133.7
77.5°	188.7	176.0	137.9	92.9	65.7	78.8	100.7	116.5	122.6
80°	177.3	162.7	125.2	79.8	48.9	64.4	88.5	104.1	111.1
82.5°	164.6	152.0	114.3	65.9	34.8	51.3	76.6	93.6	99.5
85°	153.4	140.3	104.1	55.0	21.4	39.6	65.7	83.2	90.2
87.5°	143.2	132.3	94.6	46.7	10.7	30.2	55.2	72.9	81.0
90°	134.0	121.6	86.6	39.1	1.9	21.9	46.7	64.2	70.3
92.5°	128.1	113.3	80.0	34.3	1.2	15.6	38.9	56.2	63.2
95°	119.4	106.3	73.2	30.6	1.2	10.5	31.4	48.1	54.2
97.5°	111.9	99.7	68.3	28.4	1.0	7.1	25.8	40.4	46.7
100°	106.0	94.6	64.0	26.5	1.2	5.1	20.4	34.3	39.9
102.5°	99.5	89.0	60.5	25.3	1.2	3.6	16.0	28.9	34.0
105°	93.6	84.4	57.4	24.1	1.2	3.2	12.9	23.8	28.4
107.5°	89.2	79.5	54.7	23.3	1.2	3.2	10.2	19.5	23.3
110°	84.9	75.6	52.0	22.6	1.2	2.9	8.0	16.0	19.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	81.9	72.0	49.6	21.9	1.5	2.9	6.6	13.4	16.0
115°	76.8	68.8	47.4	21.6	1.5	2.7	6.1	10.9	13.6
117.5°	73.2	65.9	45.2	20.9	1.5	2.7	5.8	9.0	10.9
120°	70.5	62.5	43.3	20.2	1.5	2.4	5.3	8.0	9.2
122.5°	67.1	59.3	41.6	19.7	1.5	2.4	5.1	7.5	8.3
125°	62.5	56.4	39.6	18.7	1.7	2.4	4.9	7.1	7.8
127.5°	59.6	53.7	38.2	17.5	1.7	2.2	4.6	6.6	7.3
130°	57.1	50.8	36.5	16.3	1.7	2.2	4.4	6.1	6.8
132.5°	53.5	47.9	34.0	15.3	1.7	1.9	3.9	5.6	6.3
135°	50.1	45.5	31.6	14.3	1.7	1.9	3.6	5.3	5.8
137.5°	47.9	43.0	29.4	13.4	1.7	1.7	3.4	4.9	5.3
140°	44.3	40.4	27.0	12.4	1.7	1.7	3.2	4.6	4.9
142.5°	41.6	37.7	24.8	11.4	1.7	1.7	2.9	4.1	4.6
145°	38.4	35.0	22.4	10.5	1.7	1.5	2.7	3.9	4.1
147.5°	35.5	31.9	20.4	9.7	1.7	1.5	2.4	3.4	3.6
150°	32.6	28.7	18.5	9.0	1.7	1.5	2.2	2.9	3.4
152.5°	29.4	24.8	16.5	8.3	1.7	1.5	1.9	2.7	2.9
155°	26.3	21.6	14.8	7.5	1.9	1.5	1.7	2.2	2.7
157.5°	23.6	18.7	13.1	6.8	1.9	1.2	1.7	1.9	2.2
160°	20.4	16.0	11.7	6.1	1.9	1.2	1.5	1.7	1.9
162.5°	18.0	13.4	10.2	5.6	1.9	1.2	1.5	1.5	1.7
165°	15.3	11.2	8.5	5.1	1.9	1.2	1.2	1.2	1.5
167.5°	12.4	8.8	7.1	4.6	1.9	1.2	1.2	1.0	1.2
170°	9.2	6.6	5.8	4.1	1.9	1.2	1.0	0.7	1.0
172.5°	4.1	5.1	4.6	3.6	2.2	1.2	1.0	0.7	0.5
175°	2.2	3.6	3.6	3.2	2.2	1.2	1.0	0.7	0.2
177.5°	1.7	2.2	2.7	2.7	2.2	1.5	1.0	0.5	0.2
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



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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	18.32	19.79	18.82	20.30	20.84	17.19	18.67	17.70	19.17	19.72
	3H	20.41	21.75	20.93	22.27	22.85	19.03	20.38	19.55	20.89	21.47
	4H	21.35	22.63	21.89	23.16	23.75	19.75	21.03	20.29	21.56	22.15
	6H	22.27	23.46	22.83	24.00	24.61	20.35	21.54	20.91	22.08	22.69
	8H	22.70	23.84	23.27	24.41	25.02	20.59	21.73	21.15	22.29	22.91
	12H	23.13	24.22	23.70	24.78	25.42	20.79	21.88	21.36	22.44	23.09
4H	2H	18.80	20.08	19.34	20.60	21.20	17.76	19.04	18.30	19.57	20.16
	3H	21.12	22.20	21.67	22.77	23.39	19.79	20.88	20.34	21.45	22.07
	4H	22.23	23.23	22.80	23.80	24.45	20.62	21.62	21.19	22.19	22.84
	6H	23.34	24.22	23.93	24.82	25.48	21.34	22.22	21.94	22.83	23.49
	8H	23.87	24.69	24.46	25.30	25.97	21.64	22.46	22.23	23.07	23.74
	12H	24.40	25.15	25.02	25.78	26.46	21.90	22.65	22.52	23.28	23.96
8H	4H	22.48	23.30	23.07	23.91	24.58	20.97	21.79	21.56	22.40	23.07
	6H	23.76	24.46	24.39	25.11	25.79	21.82	22.52	22.45	23.16	23.84
	8H	24.43	25.06	25.07	25.72	26.41	22.20	22.83	22.84	23.48	24.17
	12H	25.14	25.70	25.78	26.34	27.10	22.55	23.12	23.20	23.76	24.52
12H	4H	22.49	23.24	23.11	23.87	24.55	21.03	21.78	21.65	22.41	23.09
	6H	23.81	24.45	24.45	25.10	25.79	21.93	22.56	22.57	23.22	23.91
	8H	24.56	25.12	25.20	25.76	26.52	22.37	22.94	23.02	23.58	24.34