

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: P892499

Luminaire Tested: 2MB-2SL-ASMF-UNV-L940

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P892499  
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-L940  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 4000K CCT  
Light Source: -  
Ballast/Driver: -

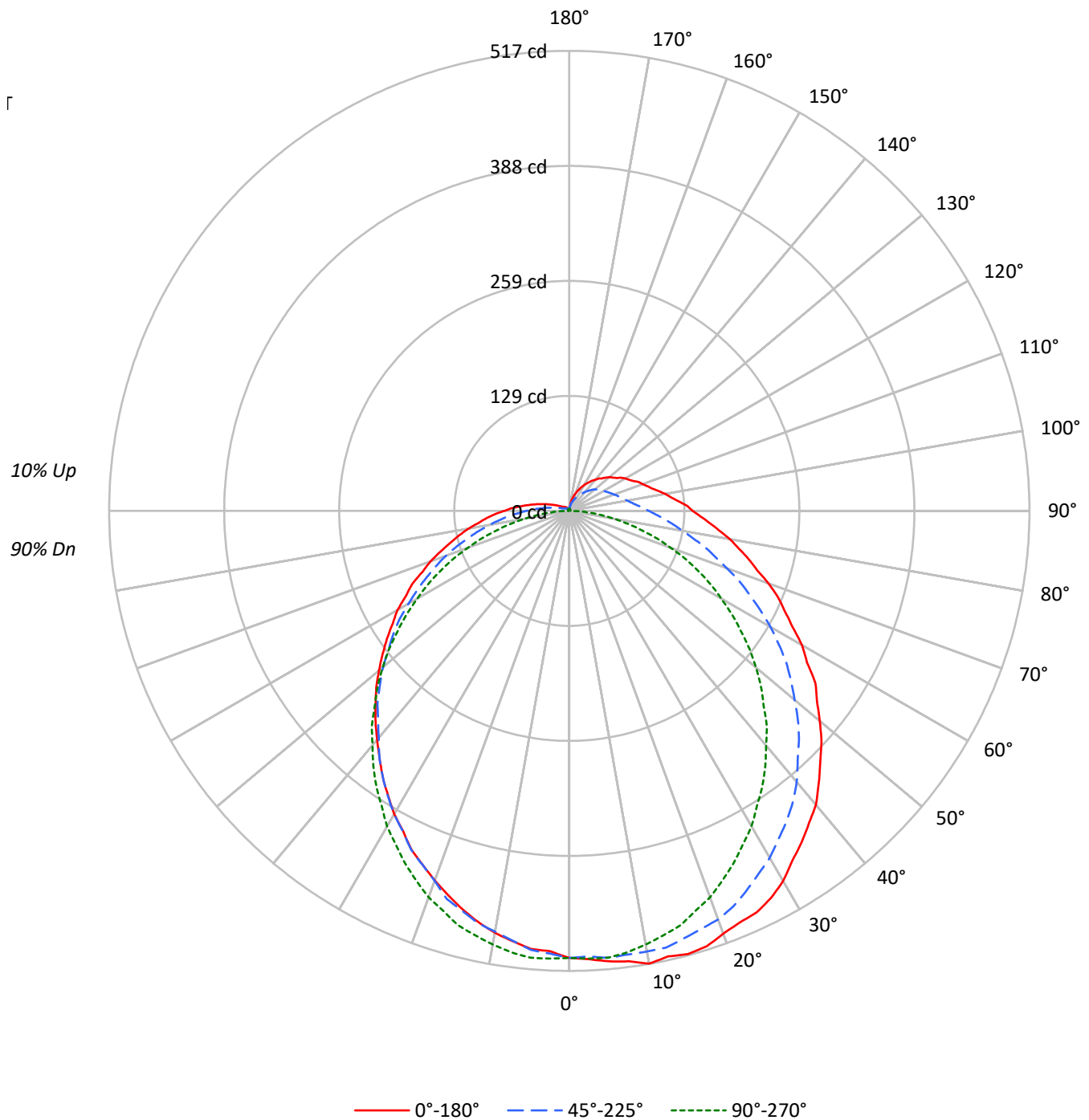
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1727.0 lumens  
Efficiency: N/A  
Efficacy: 115.9 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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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.7	2.8
10°-20°	136.6	7.9
20°-30°	206.0	11.9
30°-40°	247.2	14.3
40°-50°	257.4	14.9
50°-60°	238.6	13.8
60°-70°	196.5	11.4
70°-80°	141.8	8.2
80°-90°	90.0	5.2
90°-100°	55.5	3.2
100°-110°	37.0	2.1
110°-120°	26.3	1.5
120°-130°	19.3	1.1
130°-140°	13.3	0.8
140°-150°	8.1	0.5
150°-160°	4.0	0.2
160°-170°	1.5	0.1
170°-180°	0.2	0.0
0°-30°	390.2	22.6
0°-40°	637.5	36.9
0°-60°	1133.5	65.6
0°-90°	1561.8	90.4
90°-120°	118.8	6.9
90°-150°	159.5	9.2
90°-180°	165.0	9.6
0°-180°	1727.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	502	502	502	502	502	
5°	508	504	504	495	494	49
15°	516	498	482	465	464	145
25°	498	471	437	420	420	229
35°	455	426	378	365	365	285
45°	399	365	309	305	308	309
55°	338	298	235	241	250	300
65°	267	224	160	177	195	266
75°	208	158	84	117	138	221
85°	158	108	22	68	93	135
90°	138	89	2	48	73	76
95°	123	76	1	32	56	98
105°	97	59	1	13	29	103
115°	79	49	2	6	14	79
125°	64	41	2	5	8	59
135°	52	33	2	4	6	41
145°	40	23	2	3	4	25
155°	27	15	2	2	3	13
165°	16	9	2	1	2	5
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°	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3
2.5°	504.3	505.8	501.1	504.1	503.6	504.1	498.0	503.1	495.3
5°	508.1	508.8	504.1	505.8	504.1	499.8	495.3	493.5	494.0
7.5°	510.6	514.6	502.8	503.3	500.3	495.8	487.2	488.7	487.7
10°	516.6	512.1	502.8	500.6	494.8	490.0	480.2	481.0	481.5
12.5°	512.9	511.9	502.6	494.3	488.5	484.5	474.4	471.9	473.2
15°	515.6	511.4	497.5	491.0	482.2	475.2	465.1	463.4	463.6
17.5°	513.1	509.6	492.5	483.5	471.2	466.9	457.4	454.3	452.8
20°	505.6	503.8	488.7	473.2	462.1	453.8	442.3	440.5	441.8
22.5°	500.6	496.3	481.2	465.6	449.6	442.3	430.7	430.5	430.7
25°	498.0	492.5	470.9	454.6	436.8	430.2	420.2	416.4	419.7
27.5°	490.5	485.5	460.1	442.3	422.4	413.7	405.4	404.6	405.1
30°	480.5	470.7	450.3	428.5	409.4	400.3	393.6	388.5	393.3
32.5°	466.1	460.6	437.5	413.7	392.6	386.3	379.5	379.0	379.0
35°	455.1	451.1	425.5	400.6	378.0	369.4	365.4	363.7	365.4
37.5°	442.3	436.3	412.6	384.8	361.7	354.4	350.4	348.9	350.1
40°	431.2	420.2	397.6	368.4	343.8	337.3	333.0	334.5	335.8
42.5°	414.9	408.6	379.7	351.9	328.5	321.5	318.0	319.2	322.2
45°	398.8	393.1	364.9	334.5	308.7	304.9	304.7	303.9	307.7
47.5°	384.3	376.0	348.6	317.5	292.1	287.8	288.3	290.8	294.1
50°	367.4	357.6	330.5	299.1	273.8	271.0	273.0	274.8	279.0
52.5°	350.6	342.8	313.9	281.8	255.2	253.2	255.9	261.7	264.2
55°	337.6	323.5	297.6	261.5	235.3	235.6	241.1	244.4	249.9
57.5°	316.7	306.2	279.0	243.4	216.7	218.5	226.0	231.6	235.1
60°	301.9	288.6	261.0	224.0	197.2	199.9	208.5	216.7	222.8
62.5°	282.8	271.2	242.1	204.9	179.1	183.1	192.6	202.4	206.7
65°	267.2	254.2	223.5	185.9	160.2	165.0	176.8	187.9	194.9
67.5°	253.9	240.4	207.0	168.3	141.1	148.2	162.0	172.8	178.3
70°	238.1	222.3	188.1	148.7	121.3	129.6	147.2	159.7	166.0
72.5°	221.3	208.5	171.8	130.6	103.0	113.0	132.4	145.4	151.4
75°	208.2	193.9	158.0	112.5	84.4	96.4	117.3	132.1	138.1
77.5°	194.9	181.8	142.4	95.9	67.8	81.4	104.0	120.3	126.6
80°	183.1	168.0	129.3	82.4	50.5	66.6	91.4	107.5	114.8
82.5°	170.0	157.0	118.0	68.1	35.9	53.0	79.1	96.7	102.7
85°	158.5	144.9	107.5	56.8	22.1	40.9	67.8	85.9	93.2
87.5°	147.9	136.6	97.7	48.2	11.1	31.1	57.0	75.3	83.6
90°	138.4	125.6	89.4	40.4	2.0	22.6	48.2	66.3	72.6
92.5°	132.4	117.0	82.6	35.4	1.3	16.1	40.2	58.0	65.3
95°	123.3	109.8	75.6	31.6	1.3	10.8	32.4	49.7	56.0
97.5°	115.5	103.0	70.6	29.4	1.0	7.3	26.6	41.7	48.2
100°	109.5	97.7	66.1	27.4	1.3	5.3	21.1	35.4	41.2
102.5°	102.7	91.9	62.5	26.1	1.3	3.8	16.6	29.9	35.2
105°	96.7	87.2	59.3	24.9	1.3	3.3	13.3	24.6	29.4
107.5°	92.2	82.1	56.5	24.1	1.3	3.3	10.5	20.1	24.1
110°	87.7	78.1	53.7	23.4	1.3	3.0	8.3	16.6	20.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	84.6	74.3	51.2	22.6	1.5	3.0	6.8	13.8	16.6
115°	79.4	71.1	49.0	22.4	1.5	2.8	6.3	11.3	14.1
117.5°	75.6	68.1	46.7	21.6	1.5	2.8	6.0	9.3	11.3
120°	72.8	64.5	44.7	20.8	1.5	2.5	5.5	8.3	9.5
122.5°	69.3	61.3	42.9	20.3	1.5	2.5	5.3	7.8	8.5
125°	64.5	58.3	40.9	19.3	1.8	2.5	5.0	7.3	8.0
127.5°	61.5	55.5	39.4	18.1	1.8	2.3	4.8	6.8	7.5
130°	59.0	52.5	37.7	16.8	1.8	2.3	4.5	6.3	7.0
132.5°	55.3	49.5	35.2	15.8	1.8	2.0	4.0	5.8	6.5
135°	51.7	47.0	32.7	14.8	1.8	2.0	3.8	5.5	6.0
137.5°	49.5	44.5	30.4	13.8	1.8	1.8	3.5	5.0	5.5
140°	45.7	41.7	27.9	12.8	1.8	1.8	3.3	4.8	5.0
142.5°	42.9	38.9	25.6	11.8	1.8	1.8	3.0	4.3	4.8
145°	39.7	36.2	23.1	10.8	1.8	1.5	2.8	4.0	4.3
147.5°	36.7	32.9	21.1	10.0	1.8	1.5	2.5	3.5	3.8
150°	33.7	29.6	19.1	9.3	1.8	1.5	2.3	3.0	3.5
152.5°	30.4	25.6	17.1	8.5	1.8	1.5	2.0	2.8	3.0
155°	27.1	22.4	15.3	7.8	2.0	1.5	1.8	2.3	2.8
157.5°	24.4	19.3	13.6	7.0	2.0	1.3	1.8	2.0	2.3
160°	21.1	16.6	12.1	6.3	2.0	1.3	1.5	1.8	2.0
162.5°	18.6	13.8	10.5	5.8	2.0	1.3	1.5	1.5	1.8
165°	15.8	11.6	8.8	5.3	2.0	1.3	1.3	1.3	1.5
167.5°	12.8	9.0	7.3	4.8	2.0	1.3	1.3	1.0	1.3
170°	9.5	6.8	6.0	4.3	2.0	1.3	1.0	0.8	1.0
172.5°	4.3	5.3	4.8	3.8	2.3	1.3	1.0	0.8	0.5
175°	2.3	3.8	3.8	3.3	2.3	1.3	1.0	0.8	0.3
177.5°	1.8	2.3	2.8	2.8	2.3	1.5	1.0	0.5	0.3
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	18.43	19.91	18.94	20.41	20.95	17.30	18.78	17.81	19.28	19.83
	3H	20.52	21.87	21.04	22.38	22.96	19.14	20.49	19.66	21.00	21.58
	4H	21.47	22.74	22.00	23.27	23.87	19.87	21.14	20.40	21.67	22.27
	6H	22.39	23.57	22.94	24.11	24.73	20.47	21.65	21.02	22.19	22.81
	8H	22.82	23.96	23.38	24.52	25.14	20.70	21.84	21.26	22.40	23.02
	12H	23.24	24.33	23.81	24.89	25.54	20.90	21.99	21.47	22.55	23.20
4H	2H	18.91	20.19	19.45	20.72	21.31	17.88	19.15	18.42	19.68	20.28
	3H	21.23	22.32	21.78	22.88	23.50	19.90	20.99	20.46	21.56	22.18
	4H	22.34	23.34	22.91	23.92	24.57	20.73	21.73	21.31	22.31	22.96
	6H	23.45	24.33	24.04	24.93	25.59	21.46	22.34	22.05	22.94	23.60
	8H	23.98	24.81	24.58	25.41	26.08	21.75	22.58	22.35	23.18	23.85
	12H	24.51	25.26	25.13	25.89	26.57	22.01	22.76	22.63	23.39	24.07
8H	4H	22.59	23.42	23.19	24.02	24.70	21.08	21.90	21.67	22.51	23.18
	6H	23.87	24.57	24.50	25.22	25.90	21.93	22.63	22.56	23.28	23.96
	8H	24.54	25.18	25.18	25.83	26.52	22.31	22.94	22.95	23.59	24.29
	12H	25.25	25.81	25.89	26.46	27.21	22.67	23.23	23.31	23.87	24.63
12H	4H	22.61	23.36	23.23	23.99	24.67	21.14	21.89	21.76	22.52	23.21
	6H	23.93	24.56	24.57	25.21	25.91	22.04	22.68	22.68	23.33	24.02
	8H	24.67	25.23	25.31	25.87	26.63	22.49	23.05	23.13	23.69	24.45