

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: P893376

Luminaire Tested: 4MB-3SL-ASMF-UNV-L950

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P893376  
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: 4MB-3SL-ASMF-UNV-L950  
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

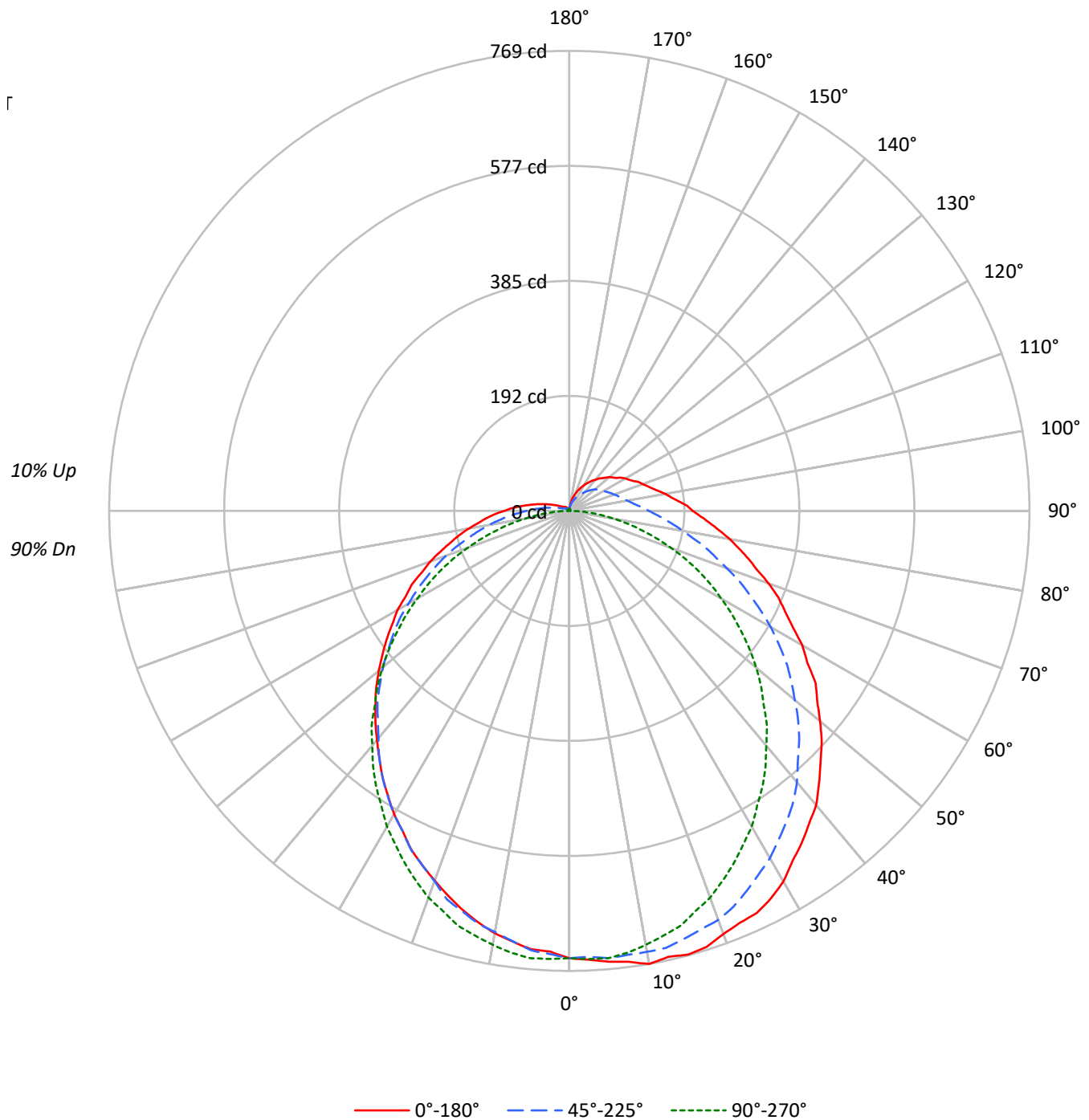
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2571.0 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 3.98' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 21.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 5.2  
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°	71.0	2.8
10°-20°	203.4	7.9
20°-30°	306.6	11.9
30°-40°	368.0	14.3
40°-50°	383.2	14.9
50°-60°	355.3	13.8
60°-70°	292.6	11.4
70°-80°	211.0	8.2
80°-90°	134.0	5.2
90°-100°	82.6	3.2
100°-110°	55.1	2.1
110°-120°	39.2	1.5
120°-130°	28.7	1.1
130°-140°	19.8	0.8
140°-150°	12.0	0.5
150°-160°	6.0	0.2
160°-170°	2.2	0.1
170°-180°	0.4	0.0
0°-30°	580.9	22.6
0°-40°	949.0	36.9
0°-60°	1687.5	65.6
0°-90°	2325.1	90.4
90°-120°	176.9	6.9
90°-150°	237.4	9.2
90°-180°	246.0	9.6
0°-180°	2571.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	748	748	748	748	748	
5°	756	750	750	737	736	73
15°	768	741	718	692	690	216
25°	741	701	650	626	625	341
35°	678	633	563	544	544	424
45°	594	543	460	454	458	459
55°	502	443	350	359	372	446
65°	398	333	238	263	290	396
75°	310	235	126	175	206	328
85°	236	160	33	101	139	200
90°	206	133	3	72	108	114
95°	184	112	2	48	83	146
105°	144	88	2	20	44	154
115°	118	73	2	9	21	118
125°	96	61	3	8	12	87
135°	77	49	3	6	9	60
145°	59	34	3	4	6	37
155°	40	23	3	3	4	19
165°	24	13	3	2	2	7
175°	3	6	3	2	0	1
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°	747.8	747.8	747.8	747.8	747.8	747.8	747.8	747.8	747.8
2.5°	750.8	753.0	745.9	750.4	749.7	750.4	741.4	748.9	737.3
5°	756.4	757.5	750.4	753.0	750.4	744.1	737.3	734.7	735.5
7.5°	760.1	766.1	748.5	749.3	744.8	738.1	725.4	727.6	726.1
10°	769.1	762.4	748.5	745.2	736.6	729.5	714.9	716.0	716.8
12.5°	763.5	762.0	748.2	735.8	727.2	721.2	706.3	702.6	704.4
15°	767.6	761.3	740.7	731.0	717.9	707.4	692.5	689.8	690.2
17.5°	763.9	758.6	733.2	719.8	701.4	695.1	680.9	676.4	674.1
20°	752.7	750.0	727.6	704.4	688.0	675.6	658.4	655.8	657.7
22.5°	745.2	738.8	716.4	693.2	669.3	658.4	641.2	640.9	641.2
25°	741.4	733.2	701.1	676.8	650.2	640.5	625.5	619.9	624.8
27.5°	730.2	722.7	685.0	658.4	628.9	615.8	603.5	602.3	603.1
30°	715.3	700.7	670.4	637.9	609.5	596.0	585.9	578.4	585.5
32.5°	694.0	685.7	651.3	615.8	584.4	575.1	565.0	564.2	564.2
35°	677.5	671.5	633.4	596.4	562.7	550.0	544.0	541.4	544.0
37.5°	658.4	649.5	614.3	572.8	538.4	527.6	521.6	519.3	521.2
40°	642.0	625.5	591.9	548.5	511.9	502.1	495.8	498.0	499.9
42.5°	617.7	608.3	565.3	523.8	489.1	478.6	473.4	475.2	479.7
45°	593.7	585.1	543.3	498.0	459.5	453.9	453.5	452.4	458.0
47.5°	572.1	559.7	519.0	472.6	434.8	428.5	429.2	433.0	437.8
50°	547.0	532.4	492.0	445.3	407.5	403.4	406.4	409.0	415.4
52.5°	522.0	510.4	467.4	419.5	379.9	376.9	381.0	389.6	393.3
55°	502.5	481.6	443.1	389.2	350.3	350.7	358.9	363.8	372.0
57.5°	471.5	455.8	415.4	362.3	322.7	325.3	336.5	344.7	350.0
60°	449.4	429.6	388.5	333.5	293.5	297.6	310.3	322.7	331.6
62.5°	421.0	403.8	360.4	305.1	266.6	272.6	286.8	301.4	307.7
65°	397.8	378.4	332.8	276.7	238.5	245.7	263.2	279.7	290.1
67.5°	378.0	357.8	308.1	250.5	210.1	220.6	241.2	257.2	265.5
70°	354.5	330.9	280.0	221.3	180.6	192.9	219.1	237.8	247.1
72.5°	329.4	310.3	255.7	194.4	153.3	168.3	197.0	216.5	225.5
75°	310.0	288.6	235.2	167.5	125.6	143.6	174.6	196.7	205.6
77.5°	290.1	270.7	212.0	142.8	101.0	121.1	154.8	179.1	188.4
80°	272.6	250.1	192.6	122.6	75.2	99.1	136.1	160.0	170.9
82.5°	253.1	233.7	175.7	101.3	53.5	78.9	117.8	144.0	152.9
85°	235.9	215.7	160.0	84.5	32.9	60.9	101.0	127.9	138.7
87.5°	220.2	203.4	145.4	71.8	16.5	46.4	84.9	112.2	124.5
90°	206.0	186.9	133.1	60.2	3.0	33.7	71.8	98.7	108.1
92.5°	197.0	174.2	123.0	52.7	1.9	23.9	59.8	86.4	97.2
95°	183.6	163.4	112.5	47.1	1.9	16.1	48.2	74.0	83.4
97.5°	172.0	153.3	105.1	43.7	1.5	10.8	39.6	62.1	71.8
100°	163.0	145.4	98.3	40.8	1.9	7.9	31.4	52.7	61.3
102.5°	152.9	136.8	93.1	38.9	1.9	5.6	24.7	44.5	52.3
105°	144.0	129.7	88.2	37.0	1.9	4.9	19.8	36.6	43.7
107.5°	137.2	122.3	84.1	35.9	1.9	4.9	15.7	29.9	35.9
110°	130.5	116.3	80.0	34.8	1.9	4.5	12.3	24.7	29.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	126.0	110.7	76.3	33.7	2.2	4.5	10.1	20.6	24.7
115°	118.2	105.8	72.9	33.3	2.2	4.1	9.3	16.8	20.9
117.5°	112.5	101.3	69.5	32.2	2.2	4.1	9.0	13.8	16.8
120°	108.4	96.1	66.6	31.0	2.2	3.7	8.2	12.3	14.2
122.5°	103.2	91.2	63.9	30.3	2.2	3.7	7.9	11.6	12.7
125°	96.1	86.7	60.9	28.8	2.6	3.7	7.5	10.8	12.0
127.5°	91.6	82.6	58.7	26.9	2.6	3.4	7.1	10.1	11.2
130°	87.9	78.1	56.1	25.1	2.6	3.4	6.7	9.3	10.5
132.5°	82.3	73.7	52.3	23.6	2.6	3.0	6.0	8.6	9.7
135°	77.0	69.9	48.6	22.1	2.6	3.0	5.6	8.2	9.0
137.5°	73.7	66.2	45.2	20.6	2.6	2.6	5.2	7.5	8.2
140°	68.0	62.1	41.5	19.1	2.6	2.6	4.9	7.1	7.5
142.5°	63.9	58.0	38.1	17.6	2.6	2.6	4.5	6.4	7.1
145°	59.1	53.8	34.4	16.1	2.6	2.2	4.1	6.0	6.4
147.5°	54.6	49.0	31.4	15.0	2.6	2.2	3.7	5.2	5.6
150°	50.1	44.1	28.4	13.8	2.6	2.2	3.4	4.5	5.2
152.5°	45.2	38.1	25.4	12.7	2.6	2.2	3.0	4.1	4.5
155°	40.4	33.3	22.8	11.6	3.0	2.2	2.6	3.4	4.1
157.5°	36.3	28.8	20.2	10.5	3.0	1.9	2.6	3.0	3.4
160°	31.4	24.7	17.9	9.3	3.0	1.9	2.2	2.6	3.0
162.5°	27.7	20.6	15.7	8.6	3.0	1.9	2.2	2.2	2.6
165°	23.6	17.2	13.1	7.9	3.0	1.9	1.9	1.9	2.2
167.5°	19.1	13.5	10.8	7.1	3.0	1.9	1.9	1.5	1.9
170°	14.2	10.1	9.0	6.4	3.0	1.9	1.5	1.1	1.5
172.5°	6.4	7.9	7.1	5.6	3.4	1.9	1.5	1.1	0.7
175°	3.4	5.6	5.6	4.9	3.4	1.9	1.5	1.1	0.4
177.5°	2.6	3.4	4.1	4.1	3.4	2.2	1.5	0.7	0.4
180°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



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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	17.42	18.90	17.92	19.40	19.94	16.39	17.87	16.89	18.37	18.91
	3H	19.50	20.85	20.02	21.36	21.95	18.26	19.61	18.78	20.12	20.70
	4H	20.45	21.72	20.99	22.25	22.85	19.01	20.28	19.55	20.81	21.41
	6H	21.37	22.55	21.92	23.09	23.71	19.64	20.83	20.19	21.37	21.98
	8H	21.80	22.93	22.36	23.50	24.11	19.89	21.03	20.46	21.60	22.21
	12H	22.22	23.31	22.79	23.86	24.51	20.13	21.22	20.70	21.77	22.42
4H	2H	17.91	19.19	18.45	19.72	20.31	16.95	18.23	17.49	18.76	19.35
	3H	20.22	21.31	20.78	21.88	22.50	19.01	20.10	19.56	20.67	21.29
	4H	21.34	22.33	21.91	22.91	23.56	19.86	20.86	20.44	21.44	22.09
	6H	22.44	23.32	23.03	23.92	24.59	20.62	21.50	21.21	22.10	22.77
	8H	22.97	23.80	23.57	24.40	25.07	20.94	21.76	21.53	22.37	23.04
	12H	23.50	24.25	24.12	24.88	25.56	21.23	21.98	21.85	22.61	23.29
8H	4H	21.59	22.42	22.19	23.02	23.70	20.20	21.03	20.80	21.63	22.31
	6H	22.88	23.58	23.51	24.22	24.90	21.09	21.79	21.72	22.43	23.11
	8H	23.55	24.18	24.19	24.83	25.52	21.49	22.12	22.13	22.77	23.46
	12H	24.25	24.81	24.89	25.45	26.21	21.87	22.44	22.52	23.08	23.84
12H	4H	21.61	22.36	22.23	22.99	23.67	20.27	21.02	20.89	21.65	22.33
	6H	22.93	23.57	23.57	24.22	24.91	21.20	21.83	21.84	22.48	23.17
	8H	23.67	24.24	24.32	24.88	25.64	21.66	22.22	22.30	22.87	23.62