

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: P892605

Luminaire Tested: 2MB-3SL-ASMF-UNV-L830

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P892605  
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-3SL-ASMF-UNV-L830  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

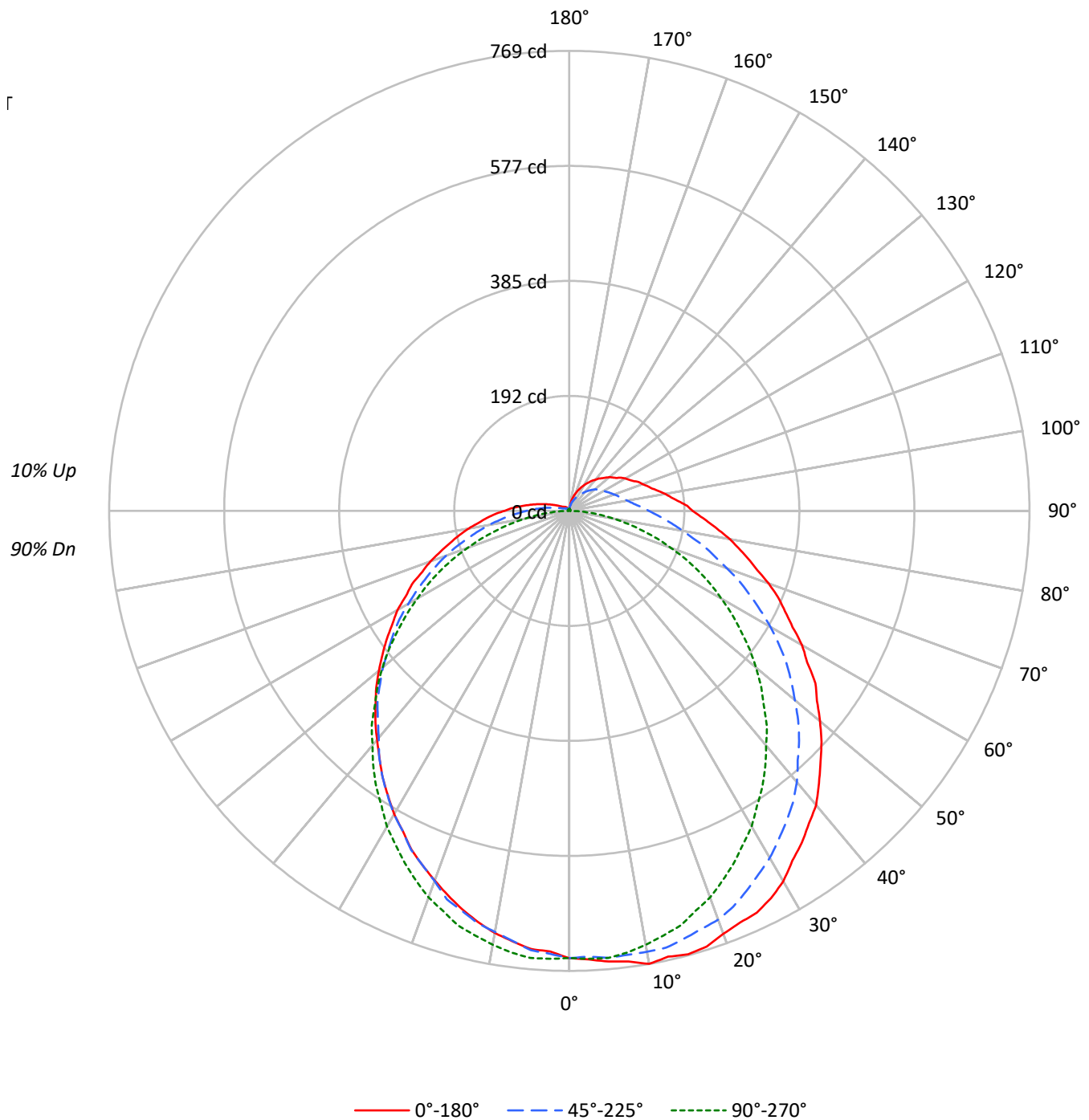
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2570.0 lumens  
Efficiency: N/A  
Efficacy: 122.4 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): 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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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.9	2.8
10°-20°	203.3	7.9
20°-30°	306.5	11.9
30°-40°	367.9	14.3
40°-50°	383.1	14.9
50°-60°	355.1	13.8
60°-70°	292.5	11.4
70°-80°	211.0	8.2
80°-90°	133.9	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°	580.7	22.6
0°-40°	948.6	36.9
0°-60°	1686.8	65.6
0°-90°	2324.2	90.4
90°-120°	176.8	6.9
90°-150°	237.3	9.2
90°-180°	246.0	9.6
0°-180°	2570.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	748	748	748	748	748	
5°	756	750	750	737	735	72
15°	767	740	718	692	690	216
25°	741	701	650	625	624	341
35°	677	633	562	544	544	424
45°	594	543	459	453	458	459
55°	502	443	350	359	372	446
65°	398	333	238	263	290	396
75°	310	235	126	174	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°	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5
2.5°	750.5	752.7	745.6	750.1	749.4	750.1	741.1	748.6	737.0
5°	756.1	757.2	750.1	752.7	750.1	743.8	737.0	734.4	735.2
7.5°	759.8	765.8	748.3	749.0	744.5	737.8	725.1	727.3	725.8
10°	768.8	762.1	748.3	744.9	736.3	729.2	714.6	715.7	716.5
12.5°	763.2	761.7	747.9	735.5	726.9	721.0	706.0	702.3	704.1
15°	767.3	761.0	740.4	730.7	717.6	707.1	692.2	689.6	689.9
17.5°	763.6	758.3	732.9	719.5	701.2	694.8	680.6	676.1	673.9
20°	752.4	749.7	727.3	704.1	687.7	675.4	658.2	655.6	657.4
22.5°	744.9	738.5	716.1	692.9	669.0	658.2	641.0	640.6	641.0
25°	741.1	732.9	700.8	676.5	650.0	640.2	625.3	619.7	624.5
27.5°	729.9	722.5	684.7	658.2	628.7	615.6	603.2	602.1	602.9
30°	715.0	700.4	670.1	637.6	609.2	595.8	585.7	578.2	585.3
32.5°	693.7	685.5	651.1	615.6	584.2	574.8	564.7	564.0	564.0
35°	677.2	671.3	633.1	596.1	562.5	549.8	543.8	541.2	543.8
37.5°	658.2	649.2	614.1	572.6	538.2	527.4	521.4	519.1	521.0
40°	641.7	625.3	591.6	548.3	511.7	501.9	495.6	497.8	499.7
42.5°	617.4	608.1	565.1	523.6	488.9	478.4	473.2	475.0	479.5
45°	593.5	584.9	543.1	497.8	459.3	453.7	453.4	452.2	457.8
47.5°	571.8	559.5	518.8	472.4	434.7	428.3	429.1	432.8	437.7
50°	546.8	532.2	491.9	445.1	407.4	403.3	406.3	408.9	415.2
52.5°	521.8	510.2	467.2	419.3	379.7	376.7	380.9	389.4	393.2
55°	502.3	481.4	442.9	389.1	350.2	350.6	358.8	363.7	371.9
57.5°	471.3	455.6	415.2	362.2	322.5	325.2	336.4	344.6	349.8
60°	449.2	429.4	388.3	333.4	293.4	297.5	310.2	322.5	331.5
62.5°	420.8	403.7	360.3	305.0	266.5	272.5	286.7	301.2	307.6
65°	397.7	378.2	332.6	276.6	238.5	245.6	263.1	279.6	290.0
67.5°	377.9	357.7	308.0	250.4	210.0	220.5	241.1	257.1	265.4
70°	354.3	330.8	279.9	221.3	180.5	192.9	219.0	237.7	247.0
72.5°	329.3	310.2	255.6	194.4	153.2	168.2	197.0	216.4	225.4
75°	309.8	288.5	235.1	167.4	125.6	143.5	174.5	196.6	205.6
77.5°	290.0	270.6	211.9	142.8	100.9	121.1	154.7	179.0	188.4
80°	272.5	250.0	192.5	122.6	75.1	99.0	136.0	160.0	170.8
82.5°	253.0	233.6	175.7	101.3	53.4	78.9	117.7	143.9	152.9
85°	235.8	215.7	160.0	84.5	32.9	60.9	100.9	127.8	138.7
87.5°	220.1	203.3	145.4	71.8	16.4	46.3	84.8	112.1	124.5
90°	205.9	186.9	133.1	60.2	3.0	33.6	71.8	98.7	108.0
92.5°	197.0	174.2	123.0	52.7	1.9	23.9	59.8	86.3	97.2
95°	183.5	163.3	112.5	47.1	1.9	16.1	48.2	74.0	83.3
97.5°	171.9	153.2	105.0	43.7	1.5	10.8	39.6	62.0	71.8
100°	163.0	145.4	98.3	40.7	1.9	7.8	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°	143.9	129.7	88.2	37.0	1.9	4.9	19.8	36.6	43.7
107.5°	137.2	122.2	84.1	35.9	1.9	4.9	15.7	29.9	35.9
110°	130.4	116.2	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	110.6	76.2	33.6	2.2	4.5	10.1	20.6	24.7
115°	118.1	105.8	72.9	33.3	2.2	4.1	9.3	16.8	20.9
117.5°	112.5	101.3	69.5	32.1	2.2	4.1	9.0	13.8	16.8
120°	108.4	96.1	66.5	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	7.8	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°	87.8	78.1	56.1	25.0	2.6	3.4	6.7	9.3	10.5
132.5°	82.2	73.6	52.3	23.5	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°	73.6	66.2	45.2	20.6	2.6	2.6	5.2	7.5	8.2
140°	68.0	62.0	41.5	19.1	2.6	2.6	4.9	7.1	7.5
142.5°	63.9	57.9	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°	23.5	17.2	13.1	7.8	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	7.8	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	19.81	21.29	20.32	21.79	22.33	18.69	20.16	19.19	20.67	21.21
	3H	21.90	23.25	22.42	23.76	24.34	20.52	21.87	21.04	22.38	22.97
	4H	22.85	24.12	23.38	24.65	25.25	21.25	22.52	21.79	23.05	23.65
	6H	23.77	24.96	24.32	25.50	26.11	21.85	23.04	22.40	23.58	24.19
	8H	24.20	25.34	24.76	25.90	26.52	22.08	23.22	22.65	23.78	24.40
	12H	24.62	25.71	25.19	26.27	26.92	22.28	23.38	22.86	23.93	24.58
4H	2H	20.29	21.57	20.83	22.10	22.69	19.26	20.53	19.80	21.06	21.66
	3H	22.61	23.70	23.16	24.27	24.88	21.28	22.37	21.84	22.94	23.56
	4H	23.72	24.72	24.30	25.30	25.95	22.11	23.11	22.69	23.69	24.34
	6H	24.83	25.71	25.42	26.31	26.98	22.84	23.72	23.43	24.32	24.98
	8H	25.36	26.19	25.96	26.79	27.46	23.13	23.96	23.73	24.56	25.23
	12H	25.89	26.64	26.51	27.27	27.95	23.39	24.14	24.01	24.77	25.46
8H	4H	23.97	24.80	24.57	25.40	26.08	22.46	23.29	23.06	23.89	24.56
	6H	25.26	25.96	25.88	26.60	27.28	23.31	24.01	23.94	24.66	25.34
	8H	25.93	26.56	26.57	27.21	27.90	23.69	24.32	24.33	24.97	25.67
	12H	26.63	27.19	27.27	27.84	28.59	24.05	24.61	24.69	25.25	26.01
12H	4H	23.99	24.74	24.61	25.37	26.05	22.53	23.28	23.14	23.91	24.59
	6H	25.31	25.94	25.95	26.59	27.29	23.42	24.06	24.06	24.71	25.40
	8H	26.05	26.61	26.69	27.26	28.01	23.87	24.43	24.51	25.07	25.83