

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: P892610

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

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P892610  
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-L935  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

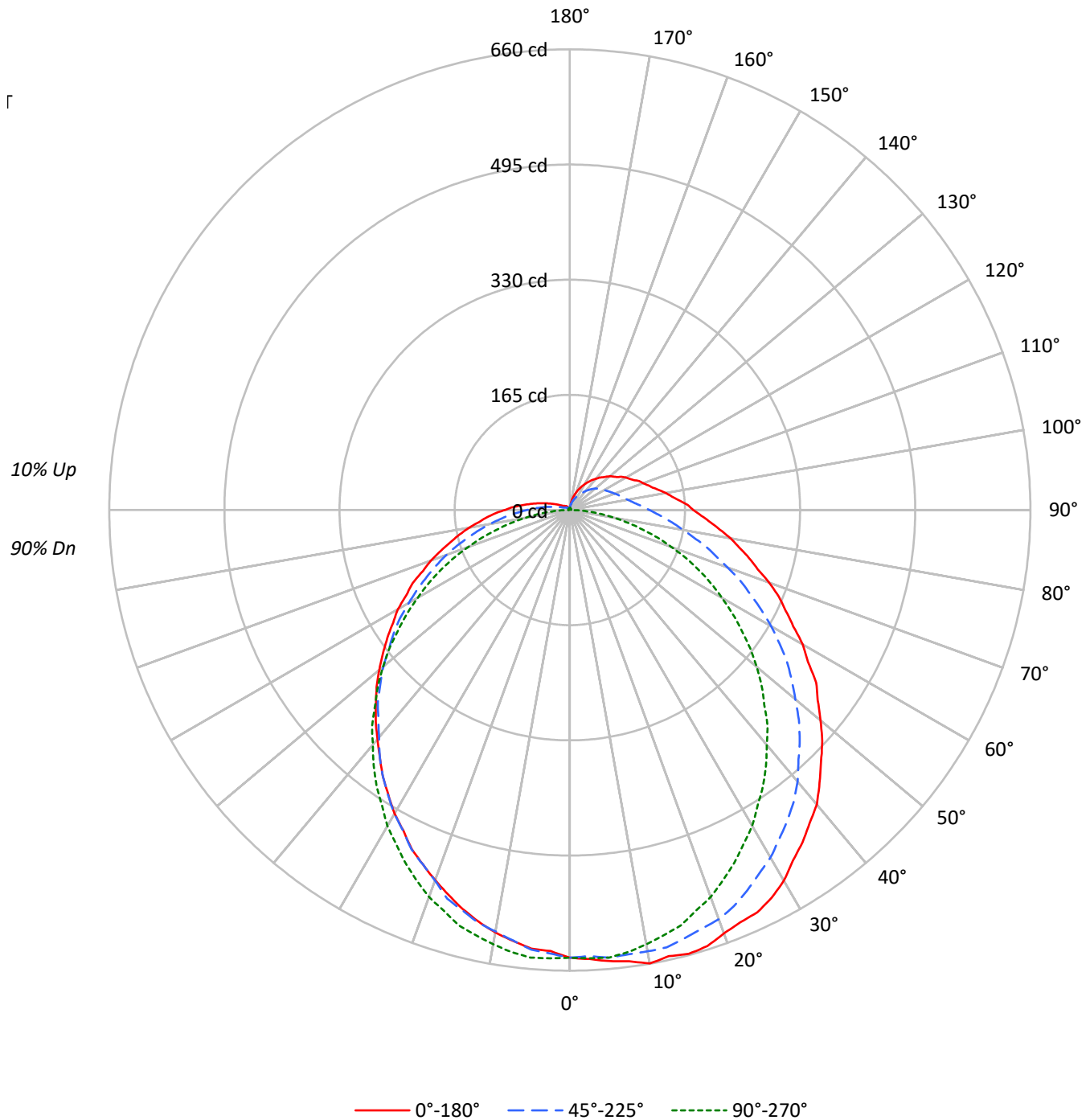
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2205.0 lumens  
Efficiency: N/A  
Efficacy: 105.0 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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**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	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°	13132	13132	13132	13132	13132
5°	13261	12806	12706	12583	12895
10°	13564	12516	12128	11952	12640
15°	13723	12229	11591	11434	12341
20°	13750	11955	10976	10819	12016
25°	13956	11552	10331	10307	11759
30°	13993	11163	9718	9755	11456
35°	13911	10740	9074	9226	11170
40°	13977	10305	8413	8632	10882
45°	13869	9795	7760	8178	10699
50°	13897	9272	7133	7660	10556
55°	14113	8815	6416	7140	10449
60°	14227	8251	5679	6592	10498
65°	14560	7642	4934	6046	10617
70°	15509	7060	4044	5523	10815
75°	17017	6625	3091	4921	11294
80°	20298	6199	2073	4382	12719
85°	27601	6066	1039	3829	16236

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 90°  
 Luminance: 57283 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.9	2.8
10°-20°	174.4	7.9
20°-30°	263.0	11.9
30°-40°	315.7	14.3
40°-50°	328.7	14.9
50°-60°	304.7	13.8
60°-70°	250.9	11.4
70°-80°	181.0	8.2
80°-90°	114.9	5.2
90°-100°	70.8	3.2
100°-110°	47.2	2.1
110°-120°	33.6	1.5
120°-130°	24.6	1.1
130°-140°	16.9	0.8
140°-150°	10.3	0.5
150°-160°	5.1	0.2
160°-170°	1.9	0.1
170°-180°	0.3	0.0
0°-30°	498.2	22.6
0°-40°	813.9	36.9
0°-60°	1447.3	65.6
0°-90°	1994.1	90.4
90°-120°	151.7	6.9
90°-150°	203.6	9.2
90°-180°	211.0	9.6
0°-180°	2205.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	641	641	641	641	641	
5°	649	644	644	632	631	62
15°	658	635	616	594	592	186
25°	636	601	558	536	536	292
35°	581	543	483	467	467	364
45°	509	466	394	389	393	394
55°	431	380	300	308	319	383
65°	341	285	205	226	249	340
75°	266	202	108	150	176	282
85°	202	137	28	87	119	172
90°	177	114	3	62	93	97
95°	157	96	2	41	72	125
105°	124	76	2	17	38	132
115°	101	62	2	8	18	101
125°	82	52	2	6	10	75
135°	66	42	2	5	8	52
145°	51	30	2	4	6	32
155°	35	20	3	2	4	16
165°	20	11	3	2	2	6
175°	3	5	3	1	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°	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3
2.5°	643.9	645.8	639.7	643.6	642.9	643.6	635.9	642.3	632.4
5°	648.7	649.7	643.6	645.8	643.6	638.1	632.4	630.1	630.8
7.5°	651.9	657.1	642.0	642.6	638.8	633.0	622.1	624.0	622.7
10°	659.6	653.8	642.0	639.1	631.7	625.6	613.1	614.1	614.7
12.5°	654.8	653.5	641.7	631.1	623.7	618.6	605.7	602.5	604.1
15°	658.3	652.9	635.2	626.9	615.7	606.7	593.9	591.6	592.0
17.5°	655.1	650.6	628.8	617.3	601.6	596.1	583.9	580.1	578.2
20°	645.5	643.3	624.0	604.1	590.0	579.5	564.7	562.5	564.1
22.5°	639.1	633.6	614.4	594.5	574.0	564.7	549.9	549.6	549.9
25°	635.9	628.8	601.3	580.4	557.6	549.3	536.5	531.7	535.8
27.5°	626.3	619.9	587.5	564.7	539.4	528.1	517.6	516.6	517.2
30°	613.4	600.9	575.0	547.1	522.7	511.1	502.5	496.1	502.2
32.5°	595.2	588.1	558.6	528.1	501.2	493.2	484.5	483.9	483.9
35°	581.1	575.9	543.2	511.5	482.6	471.7	466.6	464.3	466.6
37.5°	564.7	557.0	526.9	491.3	461.8	452.5	447.3	445.4	447.0
40°	550.6	536.5	507.6	470.4	439.0	430.7	425.2	427.1	428.7
42.5°	529.7	521.7	484.9	449.3	419.4	410.5	406.0	407.6	411.4
45°	509.2	501.8	465.9	427.1	394.1	389.3	389.0	388.0	392.8
47.5°	490.6	480.0	445.1	405.3	372.9	367.5	368.1	371.3	375.5
50°	469.1	456.6	422.0	381.9	349.5	346.0	348.6	350.8	356.3
52.5°	447.7	437.7	400.8	359.8	325.8	323.2	326.8	334.1	337.3
55°	431.0	413.0	380.0	333.8	300.5	300.8	307.8	312.0	319.1
57.5°	404.4	390.9	356.3	310.7	276.7	279.0	288.6	295.7	300.1
60°	385.4	368.5	333.2	286.0	251.7	255.3	266.2	276.7	284.4
62.5°	361.1	346.3	309.1	261.7	228.6	233.8	246.0	258.5	263.9
65°	341.2	324.5	285.4	237.3	204.6	210.7	225.8	239.9	248.8
67.5°	324.2	306.9	264.2	214.8	180.2	189.2	206.8	220.6	227.7
70°	304.0	283.8	240.2	189.8	154.9	165.5	187.9	203.9	212.0
72.5°	282.5	266.2	219.3	166.7	131.5	144.3	169.0	185.7	193.4
75°	265.8	247.6	201.7	143.7	107.7	123.1	149.8	168.7	176.4
77.5°	248.8	232.2	181.8	122.5	86.6	103.9	132.8	153.6	161.6
80°	233.8	214.5	165.1	105.2	64.5	85.0	116.7	137.2	146.5
82.5°	217.1	200.4	150.7	86.9	45.9	67.7	101.0	123.5	131.2
85°	202.3	185.0	137.2	72.5	28.2	52.3	86.6	109.7	119.0
87.5°	188.9	174.4	124.7	61.6	14.1	39.8	72.8	96.2	106.8
90°	176.7	160.3	114.2	51.6	2.6	28.9	61.6	84.7	92.7
92.5°	169.0	149.4	105.5	45.2	1.6	20.5	51.3	74.1	83.4
95°	157.4	140.1	96.5	40.4	1.6	13.8	41.4	63.5	71.5
97.5°	147.5	131.5	90.1	37.5	1.3	9.3	34.0	53.2	61.6
100°	139.8	124.7	84.3	35.0	1.6	6.7	26.9	45.2	52.6
102.5°	131.2	117.4	79.8	33.3	1.6	4.8	21.2	38.2	44.9
105°	123.5	111.3	75.7	31.7	1.6	4.2	17.0	31.4	37.5
107.5°	117.7	104.9	72.2	30.8	1.6	4.2	13.5	25.7	30.8
110°	111.9	99.7	68.6	29.8	1.6	3.8	10.6	21.2	25.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	108.1	94.9	65.4	28.9	1.9	3.8	8.7	17.6	21.2
115°	101.3	90.7	62.5	28.5	1.9	3.5	8.0	14.4	18.0
117.5°	96.5	86.9	59.6	27.6	1.9	3.5	7.7	11.9	14.4
120°	93.0	82.4	57.1	26.6	1.9	3.2	7.1	10.6	12.2
122.5°	88.5	78.2	54.8	26.0	1.9	3.2	6.7	9.9	10.9
125°	82.4	74.4	52.3	24.7	2.2	3.2	6.4	9.3	10.3
127.5°	78.6	70.9	50.3	23.1	2.2	2.9	6.1	8.7	9.6
130°	75.4	67.0	48.1	21.5	2.2	2.9	5.8	8.0	9.0
132.5°	70.5	63.2	44.9	20.2	2.2	2.6	5.1	7.4	8.3
135°	66.1	60.0	41.7	18.9	2.2	2.6	4.8	7.1	7.7
137.5°	63.2	56.8	38.8	17.6	2.2	2.2	4.5	6.4	7.1
140°	58.4	53.2	35.6	16.4	2.2	2.2	4.2	6.1	6.4
142.5°	54.8	49.7	32.7	15.1	2.2	2.2	3.8	5.5	6.1
145°	50.7	46.2	29.5	13.8	2.2	1.9	3.5	5.1	5.5
147.5°	46.8	42.0	26.9	12.8	2.2	1.9	3.2	4.5	4.8
150°	43.0	37.8	24.4	11.9	2.2	1.9	2.9	3.8	4.5
152.5°	38.8	32.7	21.8	10.9	2.2	1.9	2.6	3.5	3.8
155°	34.6	28.5	19.6	9.9	2.6	1.9	2.2	2.9	3.5
157.5°	31.1	24.7	17.3	9.0	2.6	1.6	2.2	2.6	2.9
160°	26.9	21.2	15.4	8.0	2.6	1.6	1.9	2.2	2.6
162.5°	23.7	17.6	13.5	7.4	2.6	1.6	1.9	1.9	2.2
165°	20.2	14.8	11.2	6.7	2.6	1.6	1.6	1.6	1.9
167.5°	16.4	11.5	9.3	6.1	2.6	1.6	1.6	1.3	1.6
170°	12.2	8.7	7.7	5.5	2.6	1.6	1.3	1.0	1.3
172.5°	5.5	6.7	6.1	4.8	2.9	1.6	1.3	1.0	0.6
175°	2.9	4.8	4.8	4.2	2.9	1.6	1.3	1.0	0.3
177.5°	2.2	2.9	3.5	3.5	2.9	1.9	1.3	0.6	0.3
180°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



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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	19.28	20.76	19.79	21.26	21.80	18.15	19.63	18.66	20.13	20.68
	3H	21.37	22.72	21.89	23.23	23.81	19.99	21.34	20.51	21.85	22.43
	4H	22.31	23.59	22.85	24.12	24.71	20.71	21.99	21.25	22.52	23.12
	6H	23.24	24.42	23.79	24.96	25.58	21.32	22.50	21.87	23.04	23.66
	8H	23.67	24.80	24.23	25.37	25.99	21.55	22.69	22.11	23.25	23.87
	12H	24.09	25.18	24.66	25.74	26.38	21.75	22.84	22.32	23.40	24.05
4H	2H	19.76	21.04	20.30	21.57	22.16	18.73	20.00	19.27	20.53	21.13
	3H	22.08	23.16	22.63	23.73	24.35	20.75	21.84	21.31	22.41	23.03
	4H	23.19	24.19	23.76	24.77	25.42	21.58	22.58	22.15	23.16	23.81
	6H	24.30	25.18	24.89	25.78	26.44	22.31	23.18	22.90	23.79	24.45
	8H	24.83	25.65	25.43	26.26	26.93	22.60	23.43	23.20	24.03	24.70
	12H	25.36	26.11	25.98	26.74	27.42	22.86	23.61	23.48	24.24	24.92
8H	4H	23.44	24.27	24.04	24.87	25.54	21.93	22.75	22.52	23.36	24.03
	6H	24.72	25.42	25.35	26.07	26.75	22.78	23.48	23.41	24.13	24.81
	8H	25.39	26.02	26.03	26.68	27.37	23.16	23.79	23.80	24.44	25.14
	12H	26.10	26.66	26.74	27.30	28.06	23.52	24.08	24.16	24.72	25.48
12H	4H	23.46	24.21	24.07	24.84	25.52	21.99	22.74	22.61	23.37	24.05
	6H	24.78	25.41	25.42	26.06	26.75	22.89	23.52	23.53	24.18	24.87
	8H	25.52	26.08	26.16	26.72	27.48	23.33	23.90	23.98	24.54	25.30