

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: P892496

Luminaire Tested: 2MB-2SL-ASMF-UNV-L850

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P892496  
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-L850  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

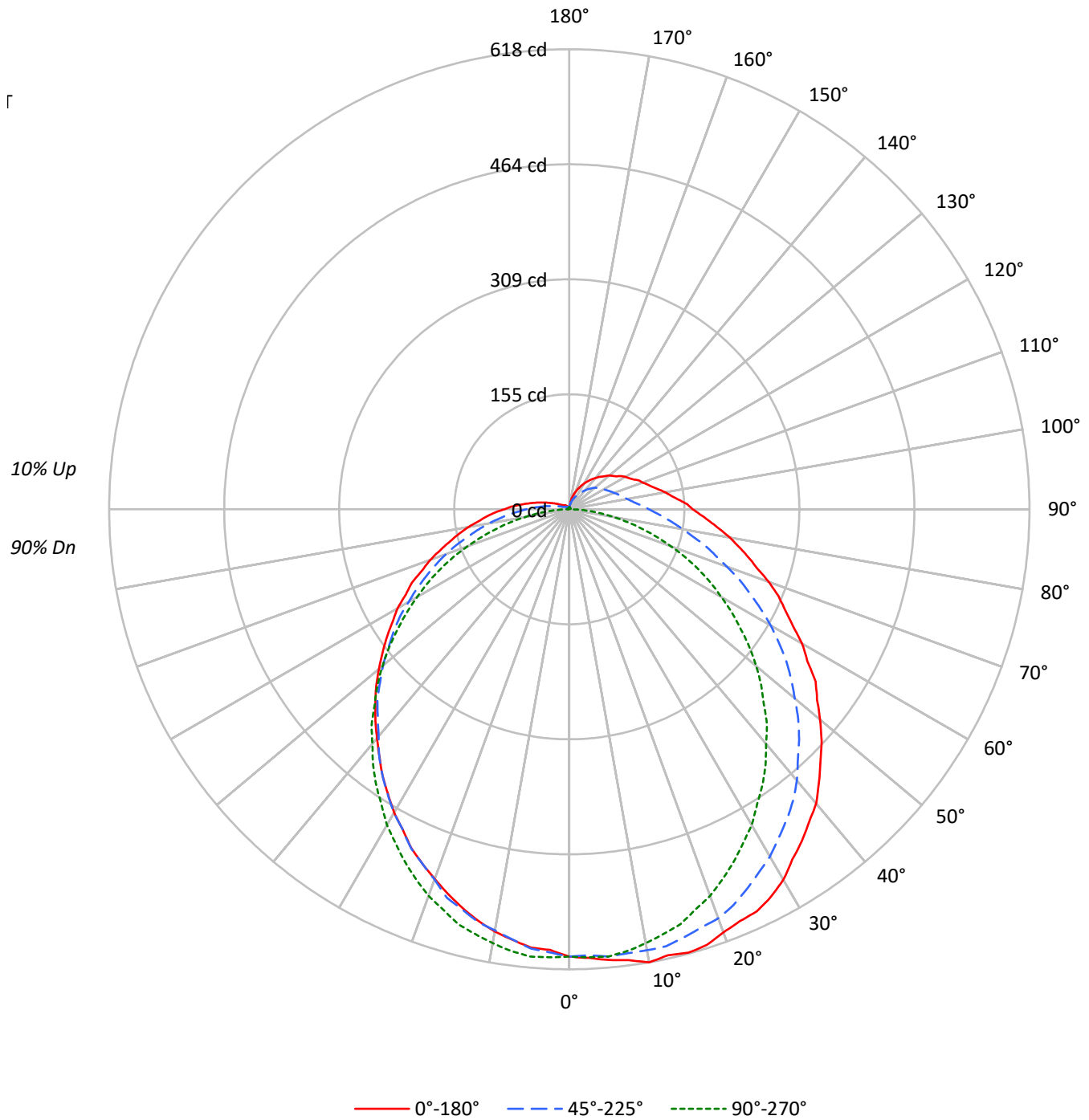
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2066.0 lumens  
Efficiency: N/A  
Efficacy: 138.7 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					
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	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	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	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	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	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	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	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	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	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	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	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	22	22	22	20		

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

	0°	45°	90°	135°	180°
0°	12304	12304	12304	12304	12304
5°	12424	11998	11904	11789	12081
10°	12708	11726	11364	11200	11844
15°	12858	11459	10860	10712	11561
20°	12883	11202	10284	10137	11258
25°	13076	10824	9681	9658	11020
30°	13113	10458	9105	9140	10733
35°	13032	10064	8502	8644	10466
40°	13096	9655	7882	8088	10197
45°	12995	9179	7272	7663	10026
50°	13023	8688	6684	7176	9889
55°	13223	8258	6010	6690	9791
60°	13330	7731	5323	6176	9838
65°	13642	7160	4623	5664	9951
70°	14529	6613	3789	5176	10132
75°	15948	6208	2899	4609	10583
80°	19013	5809	1941	4108	11920
85°	25869	5686	972	3586	15213

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 90°  
 Luminance: 53685 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.0	2.8
10°-20°	163.4	7.9
20°-30°	246.4	11.9
30°-40°	295.8	14.3
40°-50°	308.0	14.9
50°-60°	285.5	13.8
60°-70°	235.1	11.4
70°-80°	169.6	8.2
80°-90°	107.7	5.2
90°-100°	66.4	3.2
100°-110°	44.2	2.1
110°-120°	31.5	1.5
120°-130°	23.1	1.1
130°-140°	15.9	0.8
140°-150°	9.7	0.5
150°-160°	4.8	0.2
160°-170°	1.8	0.1
170°-180°	0.3	0.0
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0°-30°	466.8	22.6
0°-40°	762.6	36.9
0°-60°	1356.0	65.6
0°-90°	1868.4	90.4
90°-120°	142.1	6.9
90°-150°	190.7	9.2
90°-180°	198.0	9.6
0°-180°	2066.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	601	601	601	601	601	
5°	608	603	603	592	591	58
15°	617	595	577	556	555	174
25°	596	563	522	503	502	274
35°	544	509	452	437	437	341
45°	477	437	369	364	368	369
55°	404	356	282	288	299	359
65°	320	267	192	212	233	318
75°	249	189	101	140	165	264
85°	190	129	26	81	112	161
90°	166	107	2	58	87	91
95°	148	90	2	39	67	117
105°	116	71	2	16	35	124
115°	95	59	2	8	17	95
125°	77	49	2	6	10	70
135°	62	39	2	4	7	49
145°	48	28	2	3	5	30
155°	32	18	2	2	3	15
165°	19	10	2	2	2	5
175°	3	4	3	1	0	1
180°	2	2	2	2	2	



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CATALOG NUMBER: 2MB-2SL-ASMF-UNV-L850

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	600.9	600.9	600.9	600.9	600.9	600.9	600.9	600.9	600.9
2.5°	603.3	605.1	599.4	603.0	602.4	603.0	595.8	601.8	592.5
5°	607.8	608.7	603.0	605.1	603.0	597.9	592.5	590.4	591.0
7.5°	610.8	615.6	601.5	602.1	598.5	593.1	582.9	584.7	583.5
10°	618.0	612.6	601.5	598.8	591.9	586.2	574.5	575.4	576.0
12.5°	613.5	612.3	601.2	591.3	584.4	579.6	567.6	564.6	566.1
15°	616.8	611.7	595.2	587.4	576.9	568.5	556.4	554.3	554.6
17.5°	613.8	609.6	589.2	578.4	563.7	558.5	547.1	543.5	541.7
20°	604.8	602.7	584.7	566.1	552.8	542.9	529.1	527.0	528.5
22.5°	598.8	593.7	575.7	557.0	537.8	529.1	515.3	515.0	515.3
25°	595.8	589.2	563.4	543.8	522.5	514.7	502.7	498.2	502.1
27.5°	586.8	580.8	550.4	529.1	505.4	494.9	484.9	484.0	484.6
30°	574.8	563.1	538.7	512.6	489.7	478.9	470.8	464.8	470.5
32.5°	557.6	551.0	523.4	494.9	469.6	462.1	454.0	453.4	453.4
35°	544.4	539.6	509.0	479.2	452.2	442.0	437.2	435.1	437.2
37.5°	529.1	521.9	493.6	460.3	432.7	423.9	419.1	417.3	418.8
40°	515.9	502.7	475.6	440.8	411.3	403.5	398.4	400.2	401.7
42.5°	496.4	488.8	454.3	420.9	393.0	384.6	380.4	381.9	385.5
45°	477.1	470.2	436.6	400.2	369.3	364.8	364.5	363.6	368.1
47.5°	459.7	449.8	417.0	379.8	349.4	344.3	344.9	347.9	351.8
50°	439.6	427.8	395.4	357.8	327.5	324.2	326.6	328.7	333.8
52.5°	419.4	410.1	375.6	337.1	305.3	302.9	306.2	313.1	316.1
55°	403.8	387.0	356.0	312.8	281.5	281.8	288.4	292.3	299.0
57.5°	378.9	366.3	333.8	291.1	259.3	261.4	270.4	277.0	281.2
60°	361.1	345.2	312.2	268.0	235.9	239.2	249.4	259.3	266.5
62.5°	338.3	324.5	289.6	245.2	214.2	219.0	230.4	242.2	247.3
65°	319.7	304.1	267.4	222.3	191.7	197.4	211.5	224.7	233.2
67.5°	303.8	287.5	247.6	201.3	168.9	177.3	193.8	206.7	213.3
70°	284.8	265.9	225.0	177.9	145.1	155.0	176.1	191.1	198.6
72.5°	264.7	249.4	205.5	156.2	123.2	135.2	158.3	174.0	181.2
75°	249.1	232.0	189.0	134.6	101.0	115.4	140.3	158.0	165.3
77.5°	233.2	217.5	170.4	114.8	81.1	97.3	124.4	143.9	151.4
80°	219.0	201.0	154.7	98.5	60.4	79.6	109.4	128.6	137.3
82.5°	203.4	187.8	141.2	81.4	43.0	63.4	94.6	115.7	122.9
85°	189.6	173.4	128.6	67.9	26.4	49.0	81.1	102.8	111.5
87.5°	177.0	163.4	116.9	57.7	13.2	37.3	68.2	90.1	100.1
90°	165.6	150.2	107.0	48.4	2.4	27.0	57.7	79.3	86.8
92.5°	158.3	140.0	98.8	42.4	1.5	19.2	48.1	69.4	78.1
95°	147.5	131.3	90.4	37.9	1.5	12.9	38.8	59.5	67.0
97.5°	138.2	123.2	84.4	35.2	1.2	8.7	31.8	49.9	57.7
100°	131.0	116.9	79.0	32.7	1.5	6.3	25.2	42.4	49.3
102.5°	122.9	110.0	74.8	31.2	1.5	4.5	19.8	35.8	42.1
105°	115.7	104.3	70.9	29.7	1.5	3.9	15.9	29.4	35.2
107.5°	110.3	98.2	67.6	28.8	1.5	3.9	12.6	24.0	28.8
110°	104.9	93.4	64.3	27.9	1.5	3.6	9.9	19.8	24.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	101.3	88.9	61.3	27.0	1.8	3.6	8.1	16.5	19.8
115°	94.9	85.0	58.6	26.7	1.8	3.3	7.5	13.5	16.8
117.5°	90.4	81.4	55.9	25.8	1.8	3.3	7.2	11.1	13.5
120°	87.1	77.2	53.5	24.9	1.8	3.0	6.6	9.9	11.4
122.5°	82.9	73.3	51.4	24.3	1.8	3.0	6.3	9.3	10.2
125°	77.2	69.7	49.0	23.1	2.1	3.0	6.0	8.7	9.6
127.5°	73.6	66.4	47.2	21.6	2.1	2.7	5.7	8.1	9.0
130°	70.6	62.8	45.1	20.1	2.1	2.7	5.4	7.5	8.4
132.5°	66.1	59.2	42.1	18.9	2.1	2.4	4.8	6.9	7.8
135°	61.9	56.2	39.1	17.7	2.1	2.4	4.5	6.6	7.2
137.5°	59.2	53.2	36.4	16.5	2.1	2.1	4.2	6.0	6.6
140°	54.7	49.9	33.4	15.3	2.1	2.1	3.9	5.7	6.0
142.5°	51.4	46.6	30.6	14.1	2.1	2.1	3.6	5.1	5.7
145°	47.5	43.3	27.6	12.9	2.1	1.8	3.3	4.8	5.1
147.5°	43.9	39.4	25.2	12.0	2.1	1.8	3.0	4.2	4.5
150°	40.3	35.5	22.8	11.1	2.1	1.8	2.7	3.6	4.2
152.5°	36.4	30.6	20.4	10.2	2.1	1.8	2.4	3.3	3.6
155°	32.4	26.7	18.3	9.3	2.4	1.8	2.1	2.7	3.3
157.5°	29.1	23.1	16.2	8.4	2.4	1.5	2.1	2.4	2.7
160°	25.2	19.8	14.4	7.5	2.4	1.5	1.8	2.1	2.4
162.5°	22.2	16.5	12.6	6.9	2.4	1.5	1.8	1.8	2.1
165°	18.9	13.8	10.5	6.3	2.4	1.5	1.5	1.5	1.8
167.5°	15.3	10.8	8.7	5.7	2.4	1.5	1.5	1.2	1.5
170°	11.4	8.1	7.2	5.1	2.4	1.5	1.2	0.9	1.2
172.5°	5.1	6.3	5.7	4.5	2.7	1.5	1.2	0.9	0.6
175°	2.7	4.5	4.5	3.9	2.7	1.5	1.2	0.9	0.3
177.5°	2.1	2.7	3.3	3.3	2.7	1.8	1.2	0.6	0.3
180°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8



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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	19.05	20.53	19.56	21.03	21.58	17.93	19.41	18.43	19.91	20.45
	3H	21.14	22.49	21.66	23.00	23.58	19.77	21.11	20.29	21.63	22.21
	4H	22.09	23.36	22.63	23.89	24.49	20.49	21.77	21.03	22.29	22.89
	6H	23.01	24.20	23.56	24.74	25.35	21.09	22.28	21.64	22.82	23.43
	8H	23.44	24.58	24.00	25.14	25.76	21.32	22.46	21.89	23.03	23.64
	12H	23.86	24.95	24.43	25.51	26.16	21.53	22.62	22.10	23.18	23.82
4H	2H	19.53	20.81	20.07	21.34	21.94	18.50	19.78	19.04	20.30	20.90
	3H	21.85	22.94	22.40	23.51	24.13	20.53	21.61	21.08	22.18	22.80
	4H	22.97	23.96	23.54	24.54	25.19	21.36	22.35	21.93	22.93	23.58
	6H	24.07	24.95	24.66	25.56	26.22	22.08	22.96	22.67	23.56	24.22
	8H	24.60	25.43	25.20	26.03	26.71	22.37	23.20	22.97	23.80	24.48
	12H	25.13	25.88	25.75	26.51	27.19	22.64	23.39	23.25	24.02	24.70
8H	4H	23.21	24.04	23.81	24.64	25.32	21.70	22.53	22.30	23.13	23.81
	6H	24.50	25.20	25.13	25.84	26.52	22.55	23.25	23.18	23.90	24.58
	8H	25.17	25.80	25.81	26.45	27.15	22.93	23.56	23.57	24.22	24.91
	12H	25.87	26.44	26.52	27.08	27.84	23.29	23.85	23.93	24.49	25.25
12H	4H	23.23	23.98	23.85	24.61	25.29	21.77	22.52	22.39	23.15	23.83
	6H	24.55	25.18	25.19	25.84	26.53	22.67	23.30	23.31	23.95	24.64
	8H	25.29	25.86	25.93	26.50	27.26	23.11	23.67	23.75	24.31	25.07