

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: P892494

Luminaire Tested: 2MB-2SL-ASMF-UNV-L835

Issue Date: 11/11/2024

**Test Information**

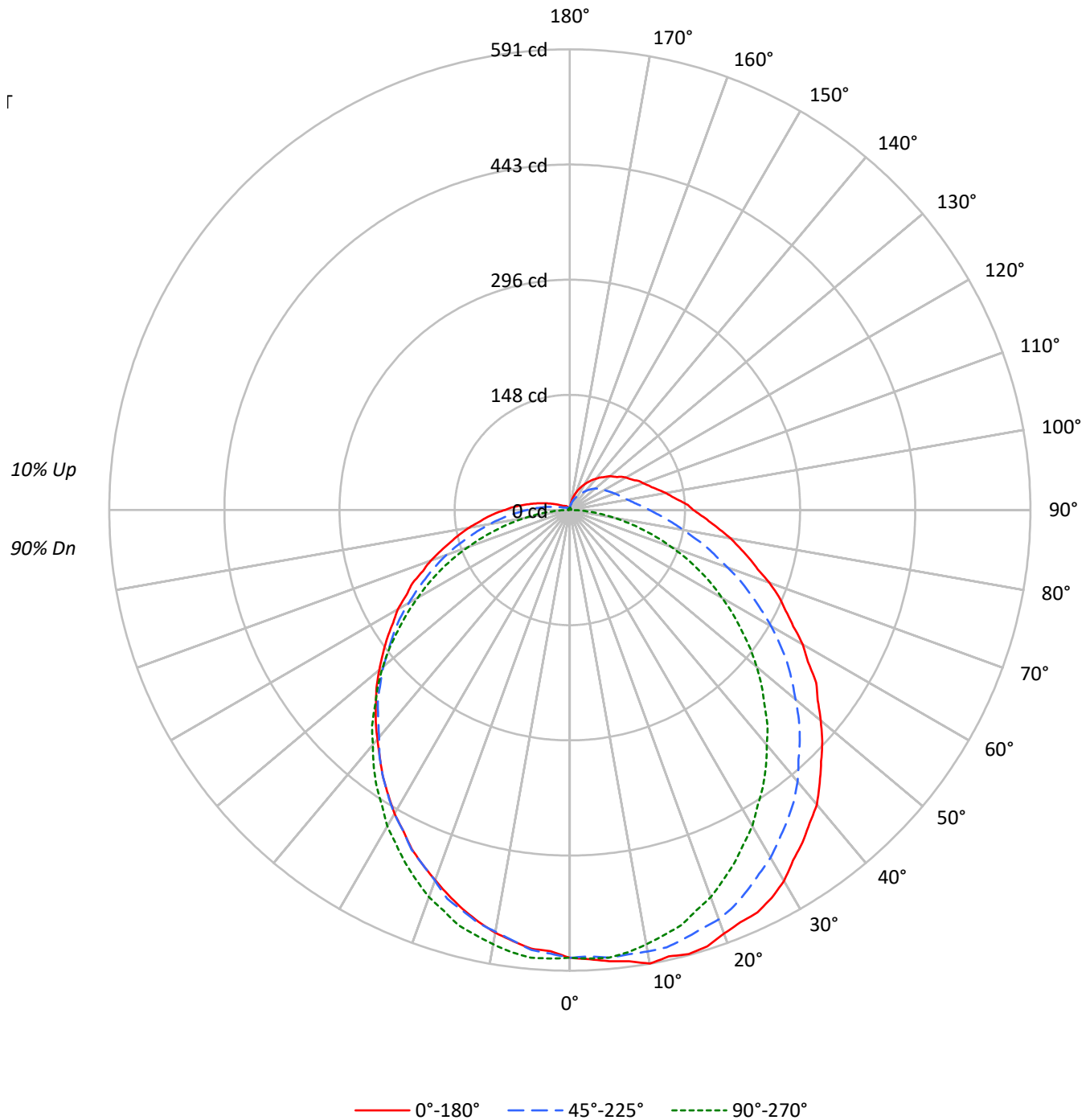
Test Method: LM-79-2019  
Report Number: P892494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-185-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-2SL-ASMF-UNV-L835  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1975.0 lumens  
Efficiency: N/A  
Efficacy: 132.5 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	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°	11762	11762	11762	11762	11762
5°	11877	11471	11381	11270	11550
10°	12149	11210	10863	10707	11322
15°	12293	10954	10382	10240	11053
20°	12316	10708	9832	9691	10761
25°	12501	10346	9255	9231	10532
30°	12535	9998	8705	8738	10261
35°	12458	9621	8128	8263	10004
40°	12520	9231	7535	7733	9748
45°	12423	8773	6951	7325	9582
50°	12449	8306	6390	6860	9454
55°	12640	7896	5745	6395	9359
60°	12743	7390	5088	5904	9406
65°	13040	6844	4418	5415	9511
70°	13892	6322	3622	4947	9688
75°	15244	5936	2770	4405	10116
80°	18180	5553	1855	3924	11399
85°	24723	5434	932	3426	14544

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 90°  
 Luminance: 51318 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.5	2.8
10°-20°	156.2	7.9
20°-30°	235.6	11.9
30°-40°	282.7	14.3
40°-50°	294.4	14.9
50°-60°	272.9	13.8
60°-70°	224.7	11.4
70°-80°	162.1	8.2
80°-90°	102.9	5.2
90°-100°	63.4	3.2
100°-110°	42.3	2.1
110°-120°	30.1	1.5
120°-130°	22.1	1.1
130°-140°	15.2	0.8
140°-150°	9.2	0.5
150°-160°	4.6	0.2
160°-170°	1.7	0.1
170°-180°	0.3	0.0
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0°-30°	446.3	22.6
0°-40°	729.0	36.9
0°-60°	1296.3	65.6
0°-90°	1786.1	90.4
90°-120°	135.9	6.9
90°-150°	182.4	9.2
90°-180°	189.0	9.6
0°-180°	1975.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	574	574	574	574	574	
5°	581	576	576	566	565	56
15°	590	569	552	532	530	166
25°	570	538	500	480	480	262
35°	520	487	432	418	418	326
45°	456	417	353	348	352	353
55°	386	340	269	276	286	343
65°	306	256	183	202	223	304
75°	238	181	96	134	158	252
85°	181	123	25	78	107	154
90°	158	102	2	55	83	87
95°	141	86	1	37	64	112
105°	111	68	1	15	34	118
115°	91	56	2	7	16	91
125°	74	47	2	6	9	67
135°	59	37	2	4	7	46
145°	45	26	2	3	5	29
155°	31	18	2	2	3	15
165°	18	10	2	1	2	5
175°	3	4	3	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°	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4
2.5°	576.7	578.5	573.0	576.5	575.9	576.5	569.6	575.3	566.4
5°	581.0	581.9	576.5	578.5	576.5	571.6	566.4	564.4	565.0
7.5°	583.9	588.5	575.0	575.6	572.1	567.0	557.2	558.9	557.8
10°	590.8	585.6	575.0	572.4	565.8	560.4	549.2	550.0	550.6
12.5°	586.5	585.4	574.7	565.3	558.6	554.1	542.6	539.7	541.1
15°	589.7	584.8	569.0	561.5	551.5	543.4	531.9	529.9	530.2
17.5°	586.8	582.8	563.2	552.9	538.8	533.9	523.0	519.6	517.9
20°	578.2	576.2	558.9	541.1	528.5	519.0	505.8	503.8	505.2
22.5°	572.4	567.6	550.3	532.5	514.1	505.8	492.6	492.3	492.6
25°	569.6	563.2	538.5	519.9	499.5	492.0	480.5	476.2	479.9
27.5°	560.9	555.2	526.2	505.8	483.1	473.1	463.6	462.7	463.3
30°	549.5	538.3	515.0	490.0	468.2	457.8	450.1	444.3	449.8
32.5°	533.1	526.8	500.3	473.1	448.9	441.7	434.0	433.4	433.4
35°	520.4	515.9	486.6	458.1	432.3	422.5	417.9	415.9	417.9
37.5°	505.8	498.9	471.9	440.0	413.6	405.3	400.7	399.0	400.4
40°	493.2	480.5	454.7	421.4	393.2	385.7	380.9	382.6	384.0
42.5°	474.5	467.3	434.3	402.4	375.7	367.6	363.6	365.1	368.5
45°	456.1	449.5	417.3	382.6	353.0	348.7	348.4	347.5	351.8
47.5°	439.4	430.0	398.7	363.0	334.0	329.2	329.7	332.6	336.3
50°	420.2	409.0	378.0	342.1	313.1	309.9	312.2	314.2	319.1
52.5°	401.0	392.1	359.0	322.3	291.8	289.5	292.7	299.3	302.2
55°	386.0	369.9	340.4	299.0	269.1	269.4	275.7	279.5	285.8
57.5°	362.2	350.1	319.1	278.3	247.9	249.9	258.5	264.8	268.8
60°	345.2	330.0	298.4	256.2	225.5	228.6	238.4	247.9	254.8
62.5°	323.4	310.2	276.9	234.4	204.8	209.4	220.3	231.5	236.4
65°	305.6	290.7	255.6	212.5	183.2	188.7	202.2	214.8	222.9
67.5°	290.4	274.9	236.7	192.4	161.4	169.5	185.3	197.6	203.9
70°	272.3	254.2	215.1	170.0	138.7	148.2	168.3	182.7	189.9
72.5°	253.0	238.4	196.5	149.4	117.8	129.2	151.4	166.3	173.2
75°	238.1	221.7	180.7	128.7	96.5	110.3	134.1	151.1	158.0
77.5°	222.9	207.9	162.9	109.7	77.5	93.1	118.9	137.6	144.8
80°	209.4	192.2	147.9	94.2	57.7	76.1	104.5	122.9	131.3
82.5°	194.4	179.5	135.0	77.8	41.1	60.6	90.5	110.6	117.5
85°	181.2	165.7	122.9	64.9	25.3	46.8	77.5	98.2	106.6
87.5°	169.2	156.2	111.7	55.1	12.6	35.6	65.2	86.2	95.6
90°	158.3	143.6	102.3	46.2	2.3	25.8	55.1	75.8	83.0
92.5°	151.4	133.8	94.5	40.5	1.4	18.4	46.0	66.3	74.7
95°	141.0	125.5	86.5	36.2	1.4	12.4	37.1	56.9	64.1
97.5°	132.1	117.8	80.7	33.6	1.1	8.3	30.4	47.7	55.1
100°	125.2	111.7	75.5	31.3	1.4	6.0	24.1	40.5	47.1
102.5°	117.5	105.1	71.5	29.9	1.4	4.3	19.0	34.2	40.2
105°	110.6	99.7	67.8	28.4	1.4	3.7	15.2	28.1	33.6
107.5°	105.4	93.9	64.6	27.6	1.4	3.7	12.1	23.0	27.6
110°	100.2	89.3	61.5	26.7	1.4	3.4	9.5	19.0	23.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	96.8	85.0	58.6	25.8	1.7	3.4	7.8	15.8	19.0
115°	90.8	81.3	56.0	25.6	1.7	3.2	7.2	12.9	16.1
117.5°	86.5	77.8	53.4	24.7	1.7	3.2	6.9	10.6	12.9
120°	83.3	73.8	51.1	23.8	1.7	2.9	6.3	9.5	10.9
122.5°	79.3	70.1	49.1	23.3	1.7	2.9	6.0	8.9	9.8
125°	73.8	66.6	46.8	22.1	2.0	2.9	5.7	8.3	9.2
127.5°	70.4	63.5	45.1	20.7	2.0	2.6	5.5	7.8	8.6
130°	67.5	60.0	43.1	19.2	2.0	2.6	5.2	7.2	8.0
132.5°	63.2	56.6	40.2	18.1	2.0	2.3	4.6	6.6	7.5
135°	59.2	53.7	37.3	16.9	2.0	2.3	4.3	6.3	6.9
137.5°	56.6	50.8	34.8	15.8	2.0	2.0	4.0	5.7	6.3
140°	52.3	47.7	31.9	14.6	2.0	2.0	3.7	5.5	5.7
142.5°	49.1	44.5	29.3	13.5	2.0	2.0	3.4	4.9	5.5
145°	45.4	41.4	26.4	12.4	2.0	1.7	3.2	4.6	4.9
147.5°	41.9	37.6	24.1	11.5	2.0	1.7	2.9	4.0	4.3
150°	38.5	33.9	21.8	10.6	2.0	1.7	2.6	3.4	4.0
152.5°	34.8	29.3	19.5	9.8	2.0	1.7	2.3	3.2	3.4
155°	31.0	25.6	17.5	8.9	2.3	1.7	2.0	2.6	3.2
157.5°	27.9	22.1	15.5	8.0	2.3	1.4	2.0	2.3	2.6
160°	24.1	19.0	13.8	7.2	2.3	1.4	1.7	2.0	2.3
162.5°	21.3	15.8	12.1	6.6	2.3	1.4	1.7	1.7	2.0
165°	18.1	13.2	10.1	6.0	2.3	1.4	1.4	1.4	1.7
167.5°	14.6	10.3	8.3	5.5	2.3	1.4	1.4	1.1	1.4
170°	10.9	7.8	6.9	4.9	2.3	1.4	1.1	0.9	1.1
172.5°	4.9	6.0	5.5	4.3	2.6	1.4	1.1	0.9	0.6
175°	2.6	4.3	4.3	3.7	2.6	1.4	1.1	0.9	0.3
177.5°	2.0	2.6	3.2	3.2	2.6	1.7	1.1	0.6	0.3
180°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7



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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	18.90	20.37	19.40	20.88	21.42	17.77	19.25	18.28	19.75	20.30
	3H	20.99	22.33	21.51	22.84	23.43	19.61	20.96	20.13	21.47	22.05
	4H	21.93	23.21	22.47	23.74	24.33	20.33	21.61	20.87	22.14	22.73
	6H	22.85	24.04	23.40	24.58	25.19	20.93	22.12	21.48	22.66	23.27
	8H	23.28	24.42	23.85	24.99	25.60	21.17	22.31	21.73	22.87	23.49
	12H	23.71	24.80	24.28	25.35	26.00	21.37	22.46	21.94	23.02	23.67
4H	2H	19.38	20.65	19.92	21.18	21.78	18.34	19.62	18.88	20.15	20.74
	3H	21.69	22.78	22.25	23.35	23.97	20.37	21.46	20.92	22.03	22.65
	4H	22.81	23.80	23.38	24.38	25.03	21.20	22.20	21.77	22.77	23.42
	6H	23.92	24.80	24.51	25.40	26.06	21.92	22.80	22.51	23.41	24.07
	8H	24.45	25.27	25.04	25.88	26.55	22.22	23.04	22.81	23.65	24.32
	12H	24.98	25.73	25.59	26.36	27.04	22.48	23.23	23.10	23.86	24.54
8H	4H	23.06	23.88	23.65	24.49	25.16	21.54	22.37	22.14	22.97	23.65
	6H	24.34	25.04	24.97	25.69	26.37	22.40	23.10	23.03	23.74	24.42
	8H	25.01	25.64	25.65	26.30	26.99	22.77	23.41	23.41	24.06	24.75
	12H	25.72	26.28	26.36	26.92	27.68	23.13	23.70	23.77	24.34	25.10
12H	4H	23.07	23.82	23.69	24.45	25.13	21.61	22.36	22.23	22.99	23.67
	6H	24.39	25.03	25.03	25.68	26.37	22.51	23.14	23.15	23.80	24.49
	8H	25.14	25.70	25.78	26.34	27.10	22.95	23.52	23.59	24.16	24.91