

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: P895769

Luminaire Tested: 2MB-3SL-ACL-UNV-L930

Issue Date: 11/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P895769  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-3SL-ACL-UNV-L930  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 3000K (C)  
Light Source: -  
Ballast/Driver: -

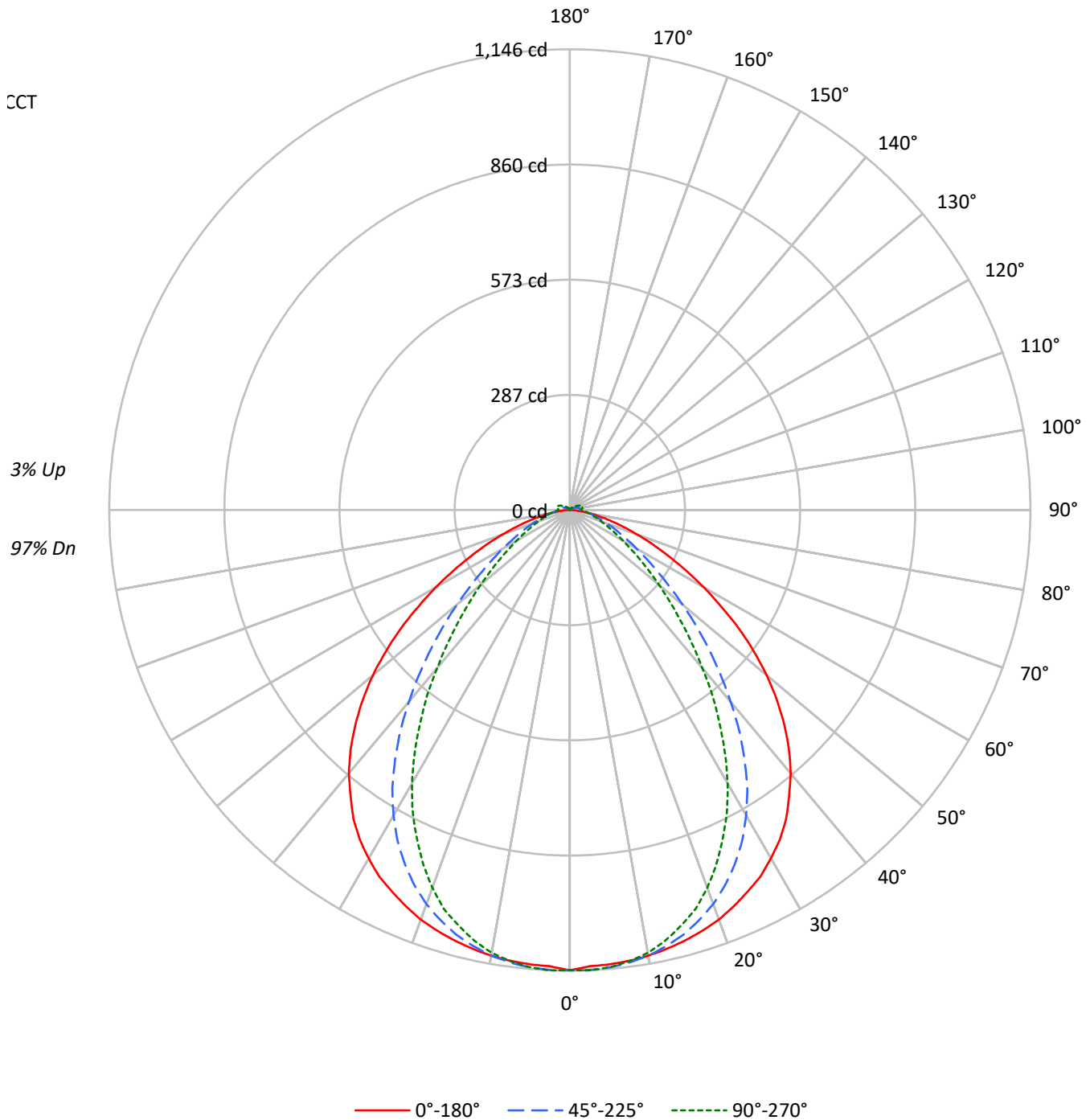
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2385.0 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.07 / 1.17  
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.08')  
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	110	105	102	98	107	103	100	97	98	96	93	94	92	90	90	88	87	87	87	87	84
2	101	94	88	83	98	92	86	82	88	83	80	84	81	77	81	78	75	75	75	75	73
3	93	84	77	71	91	82	76	70	79	73	69	76	71	67	73	69	66	66	66	66	64
4	86	76	68	62	84	74	67	61	71	65	60	69	63	59	66	62	58	58	58	58	56
5	80	68	60	54	78	67	60	54	65	58	53	63	57	52	61	56	52	52	52	52	50
6	74	62	54	48	72	61	54	48	59	52	47	57	51	47	56	50	46	46	46	46	44
7	69	57	49	43	68	56	49	43	54	48	43	53	47	42	51	46	42	42	42	42	40
8	65	52	45	39	63	52	44	39	50	43	39	49	43	38	47	42	38	38	38	38	36
9	61	48	41	36	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	38	33	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

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

	0°	45°	90°
0°	23437	23437	23437
5°	23232	22972	22837
10°	23234	22412	22040
15°	23235	21717	20923
20°	23265	20824	19556
25°	23202	19645	17754
30°	23097	18109	15717
35°	22788	16102	13319
40°	22077	13735	10854
45°	20964	11303	8602
50°	19402	8985	6713
55°	17272	6984	5198
60°	14715	5454	4071
65°	12025	4334	3236
70°	9541	3509	2656
75°	7371	2857	2322
80°	5245	2410	2105
85°	2998	2098	1896

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20964 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.4	4.5
10°-20°	307.6	12.9
20°-30°	447.1	18.7
30°-40°	483.3	20.3
40°-50°	407.7	17.1
50°-60°	279.4	11.7
60°-70°	162.9	6.8
70°-80°	83.2	3.5
80°-90°	35.9	1.5
90°-100°	21.8	0.9
100°-110°	19.5	0.8
110°-120°	13.2	0.6
120°-130°	7.4	0.3
130°-140°	4.1	0.2
140°-150°	2.1	0.1
150°-160°	1.1	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	863.1	36.2
0°-40°	1346.3	56.4
0°-60°	2033.4	85.3
0°-90°	2315.3	97.1
90°-120°	54.4	2.3
90°-150°	68.0	2.9
90°-180°	70.0	2.9
0°-180°	2385.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1134	1142	1142	1145	1142	108
15°	1108	1108	1094	1080	1070	313
25°	1047	1027	972	924	901	483
35°	938	878	758	676	650	585
45°	754	638	488	413	390	580
55°	513	389	266	223	211	457
65°	271	199	138	117	112	272
75°	108	88	70	65	64	117
85°	19	26	35	37	37	23
90°	1	12	25	28	28	1
95°	0	11	24	29	30	0
105°	0	6	21	31	32	0
115°	0	4	13	23	26	0
125°	0	2	8	13	16	0
135°	1	2	6	8	9	1
145°	1	2	4	5	6	1
155°	1	2	2	3	4	0
165°	1	1	2	2	2	0
175°	1	1	2	2	1	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1144.6	1144.6	1144.6	1144.6	1144.6
2.5°	1136.0	1143.0	1145.4	1148.5	1146.2
5°	1134.4	1141.5	1142.2	1144.6	1141.5
7.5°	1131.2	1136.7	1135.2	1135.2	1132.0
10°	1125.7	1128.9	1125.7	1121.8	1118.6
12.5°	1117.9	1120.2	1110.8	1105.3	1097.4
15°	1108.4	1107.6	1093.5	1080.1	1069.9
17.5°	1097.4	1091.9	1069.9	1049.4	1040.8
20°	1084.0	1073.8	1043.1	1013.2	999.9
22.5°	1066.7	1052.6	1010.1	971.5	953.4
25°	1047.1	1026.6	971.5	923.6	900.7
27.5°	1027.4	996.7	928.3	868.5	846.5
30°	1000.6	962.1	877.1	809.5	785.1
32.5°	972.3	923.6	822.1	743.4	719.0
35°	938.5	877.9	757.6	676.5	649.8
37.5°	896.0	824.4	692.3	607.3	584.5
40°	855.1	766.2	622.3	538.1	512.9
42.5°	807.1	703.3	554.6	472.8	450.0
45°	754.4	638.0	488.5	413.0	390.2
47.5°	698.6	575.8	425.6	355.6	337.5
50°	639.6	512.1	366.6	306.0	289.5
52.5°	576.6	448.4	312.3	262.0	247.0
55°	512.9	388.6	265.9	222.6	210.8
57.5°	446.0	331.2	226.6	189.6	178.6
60°	385.5	283.2	191.2	162.1	153.4
62.5°	325.7	239.1	162.8	137.7	130.6
65°	270.6	199.0	137.7	117.2	111.7
67.5°	222.6	166.8	118.0	100.7	96.8
70°	177.8	136.1	99.1	86.5	82.6
72.5°	140.0	110.1	83.4	74.7	72.4
75°	107.8	88.1	70.0	65.3	63.7
77.5°	78.7	67.7	59.0	56.6	55.9
80°	55.1	51.1	49.6	49.6	49.6
82.5°	34.6	37.8	41.7	43.3	43.3
85°	18.9	26.0	34.6	37.0	37.0
87.5°	7.9	18.1	29.1	31.5	30.7
90°	0.8	11.8	25.2	28.3	28.3
92.5°	0.0	11.8	25.2	28.3	28.3
95°	0.0	11.0	24.4	29.1	29.9
97.5°	0.0	10.2	24.4	29.9	30.7
100°	0.8	9.4	24.4	30.7	31.5
102.5°	0.0	7.9	22.8	30.7	32.3
105°	0.0	6.3	21.2	30.7	32.3
107.5°	0.0	4.7	19.7	29.1	31.5
110°	0.0	4.7	18.1	27.5	29.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.9	15.7	25.2	28.3
115°	0.0	3.9	13.4	22.8	26.0
117.5°	0.0	3.1	11.8	20.5	22.8
120°	0.0	3.1	10.2	18.1	20.5
122.5°	0.0	3.1	9.4	15.7	18.1
125°	0.0	2.4	7.9	13.4	15.7
127.5°	0.8	2.4	7.1	11.8	14.2
130°	0.8	2.4	6.3	10.2	12.6
132.5°	0.8	2.4	5.5	9.4	11.0
135°	0.8	2.4	5.5	7.9	9.4
137.5°	0.8	2.4	4.7	7.1	7.9
140°	0.8	2.4	3.9	6.3	7.1
142.5°	0.8	1.6	3.9	5.5	6.3
145°	0.8	1.6	3.9	4.7	5.5
147.5°	0.8	1.6	3.1	4.7	4.7
150°	0.8	1.6	3.1	3.9	4.7
152.5°	0.8	1.6	2.4	3.9	3.9
155°	0.8	1.6	2.4	3.1	3.9
157.5°	0.8	1.6	2.4	3.1	3.1
160°	0.8	1.6	1.6	2.4	3.1
162.5°	0.8	0.8	1.6	2.4	2.4
165°	0.8	0.8	1.6	2.4	2.4
167.5°	0.8	0.8	1.6	1.6	2.4
170°	0.8	0.8	1.6	1.6	1.6
172.5°	0.8	0.8	1.6	1.6	0.8
175°	0.8	0.8	1.6	1.6	0.8
177.5°	0.8	0.8	1.6	0.8	0.8
180°	0.8	0.8	0.8	0.8	0.8



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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	19.49	20.89	19.91	21.27	21.66	15.82	17.22	16.23	17.59	17.98
	3H	20.56	21.81	20.99	22.20	22.64	17.00	18.25	17.42	18.64	19.07
	4H	20.85	22.02	21.30	22.43	22.89	17.52	18.69	17.97	19.10	19.56
	6H	20.99	22.07	21.45	22.49	22.96	18.06	19.14	18.52	19.57	20.03
	8H	21.00	22.03	21.47	22.48	22.95	18.34	19.37	18.81	19.82	20.29
	12H	20.99	21.97	21.47	22.41	22.91	18.63	19.62	19.11	20.06	20.56
4H	2H	19.52	20.70	19.97	21.11	21.56	16.27	17.45	16.72	17.86	18.31
	3H	20.75	21.72	21.21	22.18	22.65	17.64	18.61	18.10	19.07	19.54
	4H	21.13	22.00	21.61	22.47	22.98	18.27	19.14	18.75	19.61	20.12
	6H	21.35	22.10	21.85	22.60	23.13	18.94	19.70	19.45	20.20	20.73
	8H	21.38	22.09	21.89	22.59	23.12	19.28	19.99	19.80	20.49	21.03
	12H	21.38	22.02	21.91	22.55	23.09	19.66	20.30	20.19	20.83	21.37
8H	4H	21.14	21.85	21.66	22.35	22.89	18.48	19.19	19.00	19.69	20.23
	6H	21.42	22.01	21.97	22.55	23.10	19.27	19.86	19.82	20.40	20.95
	8H	21.49	22.01	22.05	22.58	23.13	19.71	20.24	20.27	20.80	21.36
	12H	21.52	21.99	22.08	22.54	23.17	20.21	20.68	20.77	21.22	21.86
12H	4H	21.13	21.76	21.66	22.30	22.84	18.49	19.13	19.02	19.66	20.20
	6H	21.41	21.94	21.98	22.50	23.06	19.30	19.83	19.87	20.39	20.95
	8H	21.52	21.99	22.08	22.53	23.16	19.80	20.27	20.36	20.81	21.44