

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: P892602

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

Issue Date: 11/11/2024

**Test Information**

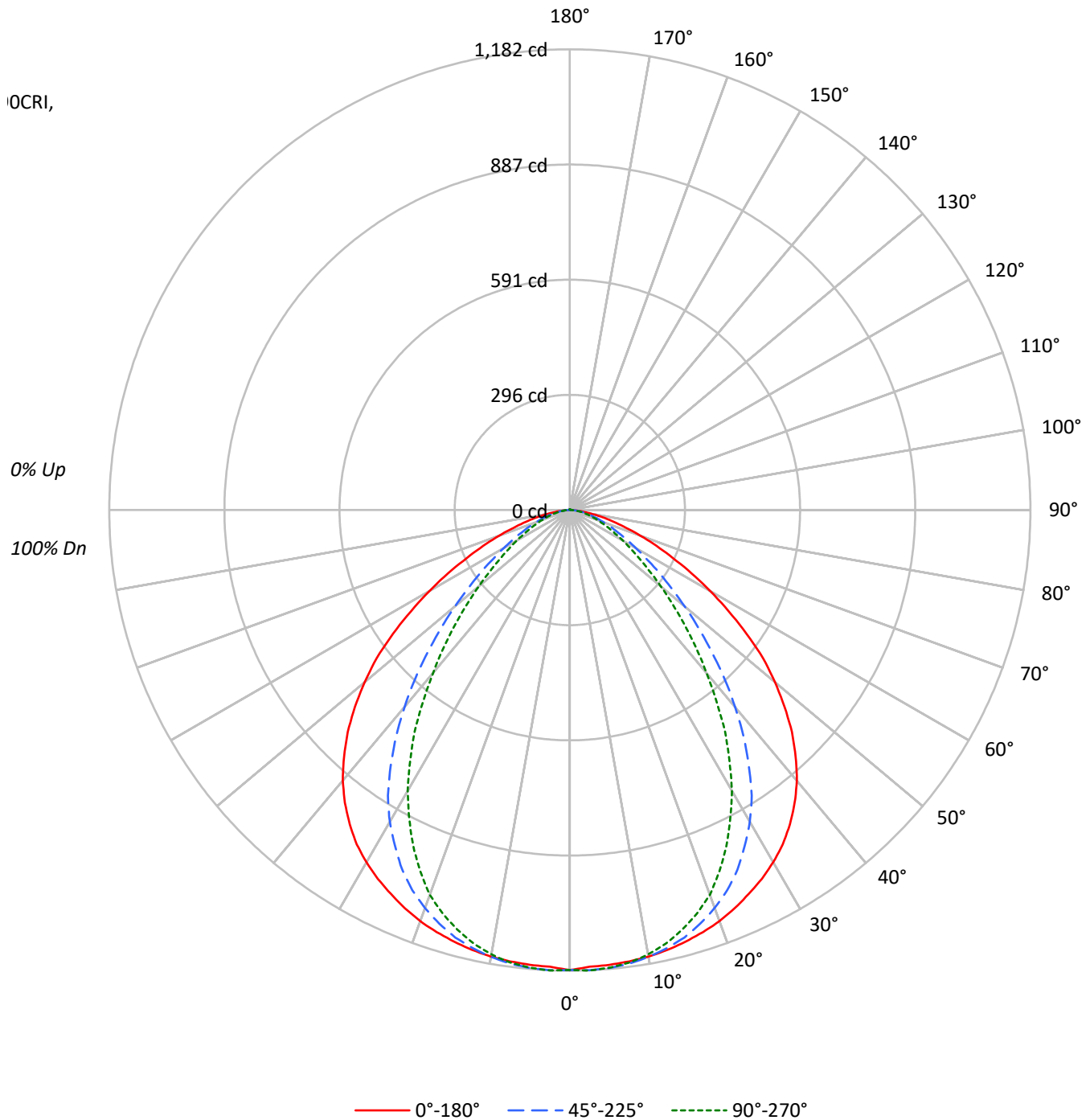
Test Method: LM-79-2019  
Report Number: P892602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-3SL-AOL-UNV-L935  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 9  
3500K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2406.0 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.08 / 1.18  
Luminous Opening: Rectangular (W 0.27' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (Ain): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	68	68	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	60	60	60	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	53	53	53	52
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	48	48	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	43	43	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	39	39	39	37
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	36	36	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	33	33	33	31

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

	0°	45°	90°
0°	24164	24164	24164
5°	24076	24240	24224
10°	24188	24204	24073
15°	24307	24069	23630
20°	24464	23680	22898
25°	24552	23002	21488
30°	24677	21847	19677
35°	24612	20025	17353
40°	24228	17639	14589
45°	23337	14902	12038
50°	21885	12252	9710
55°	19767	9942	7804
60°	17024	8006	6471
65°	14148	6609	5373
70°	11609	5544	4586
75°	9217	4731	3979
80°	6957	4045	3573
85°	4675	3759	3383

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23337 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.0	4.7
10°-20°	319.4	13.3
20°-30°	467.8	19.4
30°-40°	510.5	21.2
40°-50°	432.8	18.0
50°-60°	294.2	12.2
60°-70°	166.2	6.9
70°-80°	75.8	3.2
80°-90°	19.8	0.8
90°-100°	2.6	0.1
100°-110°	1.5	0.1
110°-120°	0.8	0.0
120°-130°	0.7	0.0
130°-140°	0.6	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	899.2	37.4
0°-40°	1409.7	58.6
0°-60°	2136.7	88.8
0°-90°	2398.5	99.7
90°-120°	4.9	0.2
90°-150°	6.7	0.3
90°-180°	8.0	0.3
0°-180°	2406.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1171	1178	1179	1182	1178	112
15°	1147	1146	1135	1123	1115	324
25°	1087	1068	1018	972	951	501
35°	985	922	801	717	694	615
45°	806	681	515	437	416	619
55°	554	409	278	231	219	494
65°	292	208	136	116	111	294
75°	116	85	60	53	50	126
85°	20	18	16	15	14	25
90°	0	2	3	4	4	1
95°	0	1	2	4	4	0
105°	0	1	2	2	2	0
115°	0	0	1	2	2	0
125°	0	0	1	2	2	0
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	0
165°	1	1	1	2	2	0
175°	1	1	2	2	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1180.1	1180.1	1180.1	1180.1	1180.1
2.5°	1172.9	1179.3	1181.7	1184.9	1182.5
5°	1171.3	1177.7	1179.3	1181.7	1178.5
7.5°	1168.1	1173.7	1173.7	1173.7	1171.3
10°	1163.3	1167.3	1164.1	1161.0	1157.8
12.5°	1156.2	1157.8	1151.4	1145.8	1139.4
15°	1146.6	1145.8	1135.4	1122.7	1114.7
17.5°	1135.4	1132.2	1113.1	1096.3	1085.2
20°	1122.7	1114.7	1086.7	1060.4	1050.8
22.5°	1105.9	1094.7	1055.6	1018.9	1003.0
25°	1086.7	1068.4	1018.1	971.9	951.1
27.5°	1066.8	1039.7	971.9	914.4	892.1
30°	1043.7	1006.2	924.0	857.7	832.2
32.5°	1017.3	969.5	868.9	789.1	762.0
35°	984.6	921.6	801.1	717.3	694.2
37.5°	947.9	870.5	732.5	645.5	617.6
40°	906.4	812.3	659.9	572.9	545.8
42.5°	857.7	750.0	588.1	503.5	480.3
45°	805.9	680.6	514.6	437.3	415.7
47.5°	747.6	612.0	447.6	374.2	357.5
50°	687.0	543.4	384.6	321.6	304.8
52.5°	625.6	474.8	326.3	272.9	258.5
55°	553.7	409.3	278.5	231.4	218.6
57.5°	483.5	351.1	233.0	193.9	185.9
60°	415.7	295.2	195.5	163.6	158.0
62.5°	352.7	247.4	164.4	138.0	130.9
65°	292.0	207.5	136.4	116.5	110.9
67.5°	240.2	169.2	114.1	96.5	91.8
70°	193.9	136.4	92.6	79.0	76.6
72.5°	150.8	109.3	75.8	65.4	63.0
75°	116.5	85.4	59.8	52.7	50.3
77.5°	85.4	63.8	46.3	40.7	39.1
80°	59.0	45.5	34.3	31.1	30.3
82.5°	37.5	29.5	24.7	22.3	22.3
85°	19.9	18.4	16.0	15.2	14.4
87.5°	8.0	8.8	8.8	8.8	8.0
90°	0.0	2.4	3.2	4.0	4.0
92.5°	0.0	1.6	3.2	4.0	4.0
95°	0.0	0.8	2.4	4.0	4.0
97.5°	0.0	0.8	2.4	3.2	3.2
100°	0.0	0.8	1.6	3.2	3.2
102.5°	0.0	0.8	1.6	2.4	3.2
105°	0.0	0.8	1.6	2.4	2.4
107.5°	0.0	0.0	1.6	2.4	2.4
110°	0.0	0.0	0.8	1.6	2.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.8	1.6	2.4
115°	0.0	0.0	0.8	1.6	1.6
117.5°	0.0	0.0	0.8	1.6	1.6
120°	0.0	0.0	0.8	1.6	1.6
122.5°	0.0	0.0	0.8	1.6	1.6
125°	0.0	0.0	0.8	1.6	1.6
127.5°	0.0	0.8	0.8	0.8	1.6
130°	0.0	0.8	0.8	0.8	1.6
132.5°	0.8	0.8	0.8	0.8	0.8
135°	0.8	0.8	0.8	0.8	0.8
137.5°	0.8	0.8	0.8	0.8	0.8
140°	0.8	0.8	0.8	0.8	0.8
142.5°	0.8	0.8	0.8	0.8	0.8
145°	0.8	0.8	0.8	0.8	0.8
147.5°	0.8	0.8	0.8	0.8	0.8
150°	0.8	0.8	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	1.6
162.5°	0.8	0.8	0.8	1.6	1.6
165°	0.8	0.8	0.8	1.6	1.6
167.5°	0.8	0.8	0.8	1.6	1.6
170°	0.8	0.8	0.8	1.6	1.6
172.5°	0.8	0.8	0.8	1.6	1.6
175°	0.8	0.8	1.6	1.6	1.6
177.5°	0.8	0.8	1.6	1.6	1.6
180°	1.6	1.6	1.6	1.6	1.6



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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	21.40	22.84	21.77	23.16	23.49	16.76	18.21	17.13	18.53	18.85
	3H	22.65	23.94	23.04	24.28	24.65	17.80	19.09	18.19	19.43	19.80
	4H	23.05	24.26	23.46	24.61	25.00	18.17	19.38	18.58	19.73	20.12
	6H	23.29	24.40	23.71	24.78	25.18	18.43	19.54	18.85	19.92	20.32
	8H	23.35	24.40	23.78	24.80	25.21	18.52	19.58	18.96	19.98	20.39
	12H	23.37	24.37	23.80	24.76	25.20	18.59	19.60	19.03	19.99	20.42
4H	2H	21.42	22.62	21.82	22.98	23.36	17.34	18.54	17.74	18.90	19.29
	3H	22.82	23.81	23.24	24.22	24.63	18.56	19.56	18.98	19.96	20.37
	4H	23.32	24.20	23.75	24.63	25.08	19.02	19.91	19.46	20.34	20.78
	6H	23.66	24.43	24.12	24.88	25.35	19.38	20.15	19.85	20.60	21.07
	8H	23.74	24.46	24.21	24.91	25.39	19.50	20.22	19.98	20.67	21.15
	12H	23.79	24.43	24.28	24.92	25.40	19.60	20.24	20.09	20.73	21.21
8H	4H	23.31	24.03	23.78	24.48	24.95	19.31	20.03	19.79	20.49	20.96
	6H	23.70	24.29	24.20	24.79	25.28	19.76	20.35	20.26	20.85	21.34
	8H	23.82	24.35	24.34	24.87	25.37	19.94	20.47	20.46	20.99	21.48
	12H	23.91	24.38	24.43	24.88	25.46	20.10	20.57	20.62	21.07	21.65
12H	4H	23.28	23.92	23.77	24.41	24.89	19.35	19.99	19.83	20.47	20.95
	6H	23.67	24.20	24.19	24.72	25.22	19.81	20.34	20.33	20.86	21.36
	8H	23.83	24.30	24.34	24.80	25.37	20.04	20.51	20.56	21.01	21.58