

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: P895766

Luminaire Tested: 2MB-3SL-ACL-UNV-L835

Issue Date: 11/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P895766  
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-L835  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 3500K (C)  
Light Source: -  
Ballast/Driver: -

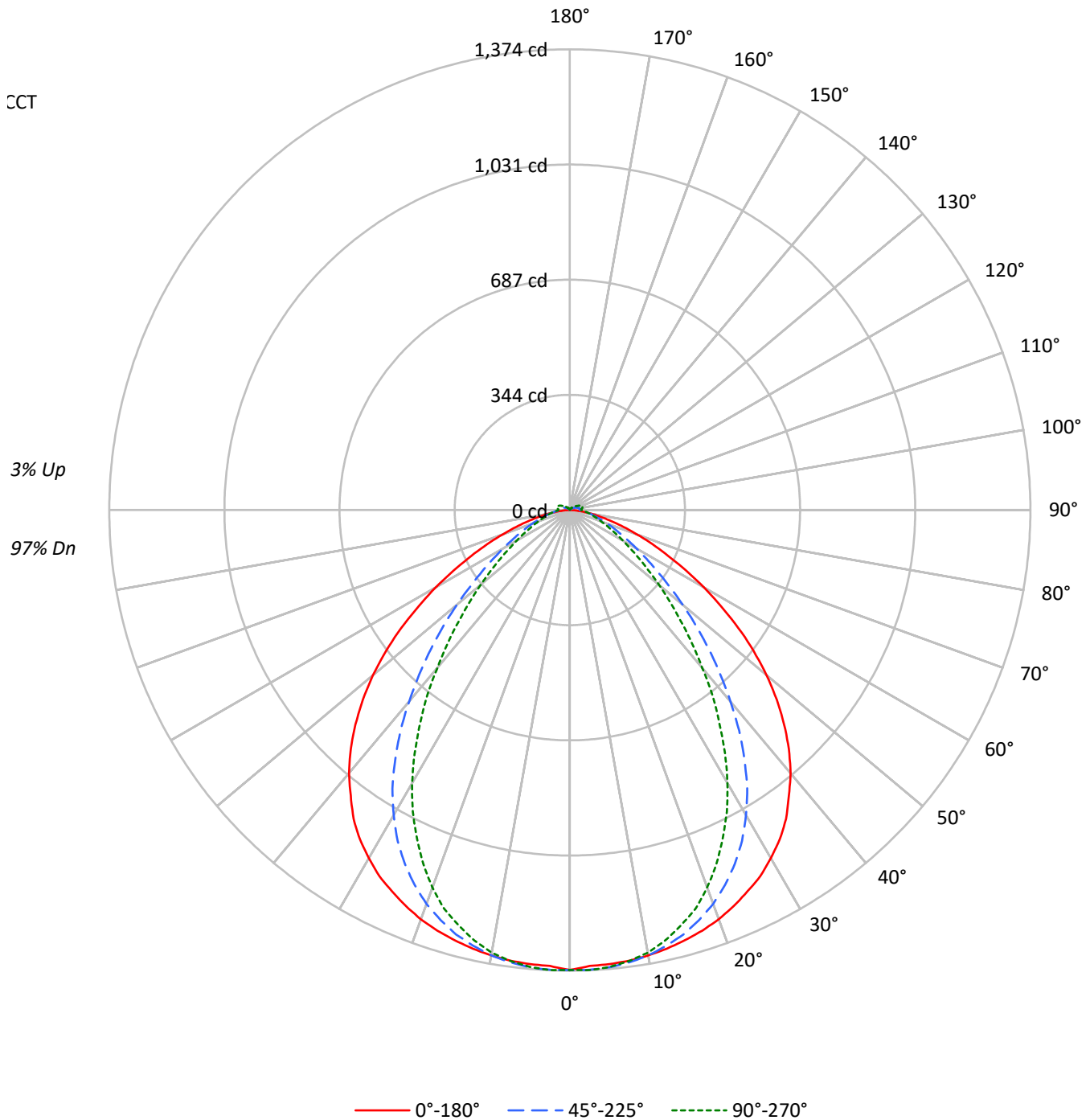
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2858.0 lumens  
Efficiency: N/A  
Efficacy: 136.1 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°	28086	28086	28086
5°	27840	27530	27364
10°	27842	26858	26412
15°	27842	26023	25072
20°	27879	24954	23435
25°	27802	23542	21276
30°	27679	21701	18834
35°	27307	19294	15961
40°	26456	16459	13006
45°	25121	13545	10308
50°	23248	10767	8044
55°	20697	8368	6228
60°	17631	6535	4878
65°	14412	5193	3879
70°	11430	4206	3184
75°	8827	3424	2785
80°	6283	2887	2521
85°	3585	2516	2270

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25121 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.9	4.5
10°-20°	368.6	12.9
20°-30°	535.7	18.7
30°-40°	579.1	20.3
40°-50°	488.6	17.1
50°-60°	334.8	11.7
60°-70°	195.2	6.8
70°-80°	99.7	3.5
80°-90°	43.0	1.5
90°-100°	26.1	0.9
100°-110°	23.3	0.8
110°-120°	15.8	0.6
120°-130°	8.9	0.3
130°-140°	4.9	0.2
140°-150°	2.6	0.1
150°-160°	1.3	0.0
160°-170°	0.5	0.0
170°-180°	0.1	0.0
0°-30°	1034.3	36.2
0°-40°	1613.4	56.5
0°-60°	2436.7	85.3
0°-90°	2774.5	97.1
90°-120°	65.2	2.3
90°-150°	81.5	2.9
90°-180°	83.0	2.9
0°-180°	2858.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1359	1368	1369	1372	1368	129
15°	1328	1327	1310	1294	1282	375
25°	1255	1230	1164	1107	1079	579
35°	1125	1052	908	811	779	701
45°	904	764	585	495	468	695
55°	615	466	319	267	253	548
65°	324	238	165	140	134	326
75°	129	106	84	78	76	140
85°	23	31	42	44	44	28
90°	1	14	30	34	34	2
95°	0	13	29	35	36	0
105°	0	8	26	37	39	0
115°	0	5	16	27	31	0
125°	0	3	9	16	19	0
135°	1	3	7	9	11	1
145°	1	2	5	6	7	1
155°	1	2	3	4	5	0
165°	1	1	2	3	3	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°	1371.6	1371.6	1371.6	1371.6	1371.6
2.5°	1361.2	1369.7	1372.6	1376.3	1373.5
5°	1359.4	1367.8	1368.8	1371.6	1367.8
7.5°	1355.6	1362.2	1360.3	1360.3	1356.5
10°	1349.0	1352.8	1349.0	1344.3	1340.5
12.5°	1339.6	1342.4	1331.1	1324.5	1315.0
15°	1328.2	1327.3	1310.3	1294.3	1282.1
17.5°	1315.0	1308.4	1282.1	1257.5	1247.2
20°	1299.0	1286.8	1250.0	1214.2	1198.2
22.5°	1278.3	1261.3	1210.4	1164.2	1142.5
25°	1254.7	1230.2	1164.2	1106.7	1079.4
27.5°	1231.1	1194.4	1112.4	1040.7	1014.3
30°	1199.1	1152.9	1051.1	970.0	940.8
32.5°	1165.2	1106.7	985.1	890.8	861.6
35°	1124.6	1052.0	907.8	810.7	778.7
37.5°	1073.7	987.9	829.6	727.8	700.4
40°	1024.7	918.2	745.7	644.8	614.6
42.5°	967.2	842.8	664.6	566.6	539.2
45°	904.0	764.5	585.4	494.9	467.6
47.5°	837.1	690.0	510.0	426.1	404.4
50°	766.4	613.7	439.3	366.7	346.9
52.5°	691.0	537.3	374.2	313.9	296.0
55°	614.6	465.7	318.6	266.8	252.6
57.5°	534.5	396.9	271.5	227.2	214.0
60°	461.9	339.4	229.1	194.2	183.8
62.5°	390.3	286.6	195.1	165.0	156.5
65°	324.3	238.5	165.0	140.5	133.9
67.5°	266.8	199.8	141.4	120.7	116.0
70°	213.0	163.1	118.8	103.7	99.0
72.5°	167.8	132.0	99.9	89.6	86.7
75°	129.1	105.6	83.9	78.2	76.4
77.5°	94.3	81.1	70.7	67.9	66.9
80°	66.0	61.3	59.4	59.4	59.4
82.5°	41.5	45.2	50.0	51.8	51.8
85°	22.6	31.1	41.5	44.3	44.3
87.5°	9.4	21.7	34.9	37.7	36.8
90°	0.9	14.1	30.2	33.9	33.9
92.5°	0.0	14.1	30.2	33.9	33.9
95°	0.0	13.2	29.2	34.9	35.8
97.5°	0.0	12.3	29.2	35.8	36.8
100°	0.9	11.3	29.2	36.8	37.7
102.5°	0.0	9.4	27.3	36.8	38.7
105°	0.0	7.5	25.5	36.8	38.7
107.5°	0.0	5.7	23.6	34.9	37.7
110°	0.0	5.7	21.7	33.0	35.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	4.7	18.9	30.2	33.9
115°	0.0	4.7	16.0	27.3	31.1
117.5°	0.0	3.8	14.1	24.5	27.3
120°	0.0	3.8	12.3	21.7	24.5
122.5°	0.0	3.8	11.3	18.9	21.7
125°	0.0	2.8	9.4	16.0	18.9
127.5°	0.9	2.8	8.5	14.1	17.0
130°	0.9	2.8	7.5	12.3	15.1
132.5°	0.9	2.8	6.6	11.3	13.2
135°	0.9	2.8	6.6	9.4	11.3
137.5°	0.9	2.8	5.7	8.5	9.4
140°	0.9	2.8	4.7	7.5	8.5
142.5°	0.9	1.9	4.7	6.6	7.5
145°	0.9	1.9	4.7	5.7	6.6
147.5°	0.9	1.9	3.8	5.7	5.7
150°	0.9	1.9	3.8	4.7	5.7
152.5°	0.9	1.9	2.8	4.7	4.7
155°	0.9	1.9	2.8	3.8	4.7
157.5°	0.9	1.9	2.8	3.8	3.8
160°	0.9	1.9	1.9	2.8	3.8
162.5°	0.9	0.9	1.9	2.8	2.8
165°	0.9	0.9	1.9	2.8	2.8
167.5°	0.9	0.9	1.9	1.9	2.8
170°	0.9	0.9	1.9	1.9	1.9
172.5°	0.9	0.9	1.9	1.9	0.9
175°	0.9	0.9	1.9	1.9	0.9
177.5°	0.9	0.9	1.9	0.9	0.9
180°	0.9	0.9	0.9	0.9	0.9



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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	20.12	21.52	20.53	21.90	22.29	16.45	17.85	16.86	18.22	18.61
	3H	21.19	22.44	21.62	22.83	23.27	17.63	18.88	18.05	19.27	19.70
	4H	21.48	22.65	21.93	23.06	23.51	18.15	19.32	18.60	19.73	20.19
	6H	21.61	22.70	22.08	23.12	23.59	18.69	19.77	19.15	20.20	20.66
	8H	21.63	22.65	22.10	23.10	23.58	18.97	19.99	19.44	20.44	20.92
	12H	21.61	22.60	22.09	23.04	23.54	19.26	20.24	19.74	20.68	21.18
4H	2H	20.15	21.33	20.60	21.74	22.19	16.90	18.07	17.35	18.48	18.94
	3H	21.38	22.35	21.84	22.81	23.28	18.27	19.24	18.73	19.70	20.17
	4H	21.75	22.63	22.24	23.10	23.61	18.90	19.77	19.38	20.24	20.75
	6H	21.97	22.73	22.48	23.23	23.76	19.57	20.33	20.07	20.83	21.35
	8H	22.01	22.72	22.52	23.22	23.75	19.91	20.62	20.43	21.12	21.66
	12H	22.01	22.64	22.54	23.18	23.72	20.29	20.92	20.82	21.45	22.00
8H	4H	21.77	22.48	22.29	22.98	23.52	19.11	19.82	19.63	20.32	20.86
	6H	22.05	22.64	22.59	23.18	23.73	19.90	20.49	20.44	21.03	21.58
	8H	22.12	22.64	22.68	23.20	23.76	20.34	20.86	20.90	21.43	21.98
	12H	22.15	22.62	22.71	23.16	23.80	20.84	21.31	21.40	21.85	22.48
12H	4H	21.76	22.39	22.29	22.92	23.47	19.12	19.76	19.65	20.29	20.83
	6H	22.04	22.57	22.60	23.13	23.69	19.93	20.46	20.49	21.02	21.58
	8H	22.15	22.62	22.71	23.16	23.79	20.43	20.89	20.98	21.44	22.07