

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: P893808

Luminaire Tested: 4MB-7HL-ACL-UNV-L950

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P893808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-7HL-ACL-UNV-L950  
Description: 7000 Lumen 4FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 5000K (C)  
Light Source: -  
Ballast/Driver: -

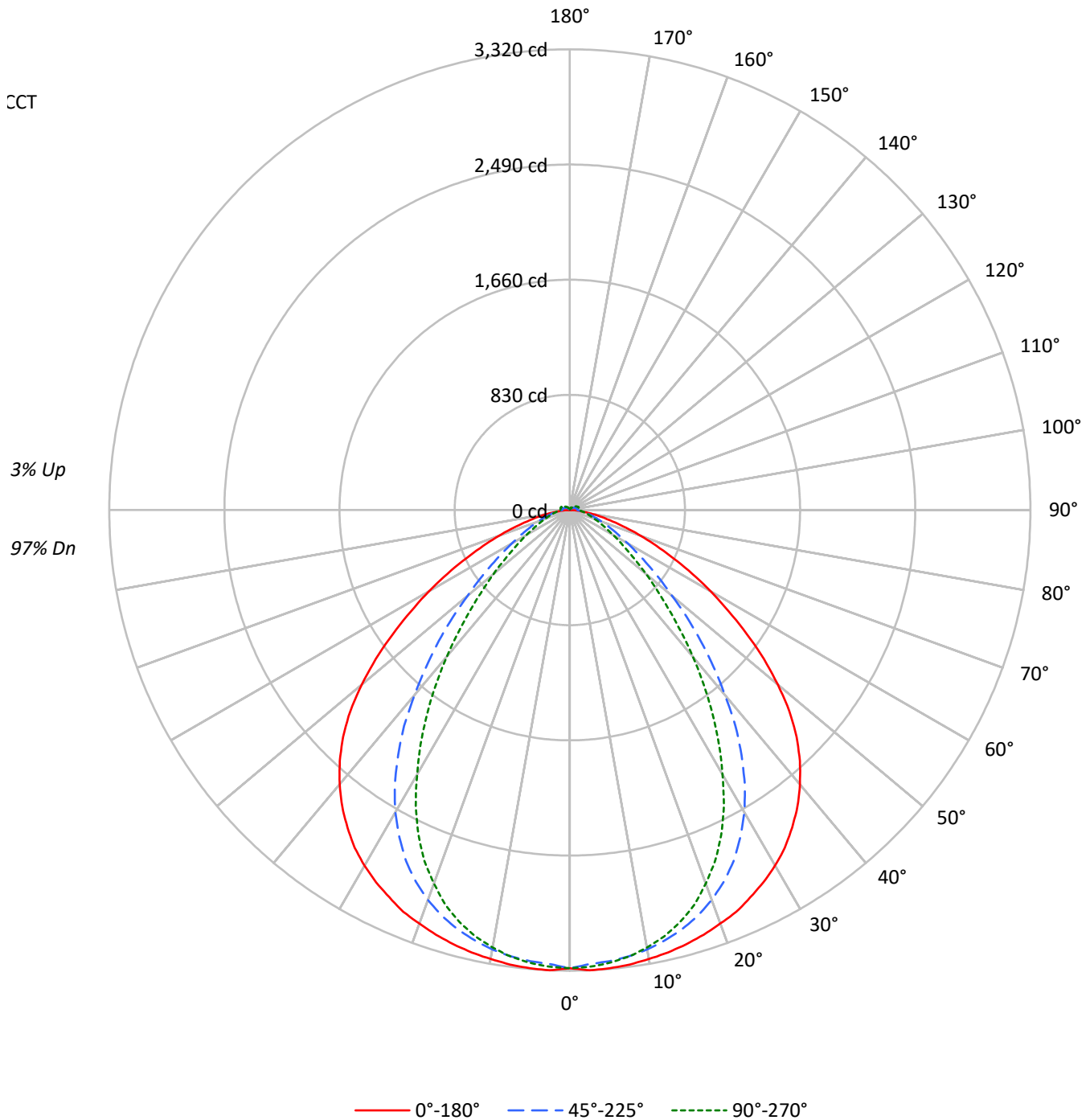
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6697.0 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.05 / 1.15  
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 3.98' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 51.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 4  
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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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.3	4.7
10°-20°	886.8	13.2
20°-30°	1290.8	19.3
30°-40°	1385.3	20.7
40°-50°	1146.2	17.1
50°-60°	759.7	11.3
60°-70°	432.8	6.5
70°-80°	214.6	3.2
80°-90°	86.8	1.3
90°-100°	51.0	0.8
100°-110°	45.4	0.7
110°-120°	34.2	0.5
120°-130°	22.7	0.3
130°-140°	14.0	0.2
140°-150°	8.0	0.1
150°-160°	4.1	0.1
160°-170°	1.7	0.0
170°-180°	0.4	0.0
0°-30°	2490.0	37.2
0°-40°	3875.2	57.9
0°-60°	5781.2	86.3
0°-90°	6515.5	97.3
90°-120°	130.6	1.9
90°-150°	175.3	2.6
90°-180°	182.0	2.7
0°-180°	6697.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3302	3302	3302	3302	3302	
5°	3315	3306	3264	3288	3276	315
15°	3240	3214	3127	3098	3074	916
25°	3079	2999	2792	2640	2582	1421
35°	2794	2572	2157	1875	1793	1746
45°	2311	1877	1335	1075	1002	1771
55°	1557	1101	686	542	503	1393
65°	824	552	343	277	262	828
75°	320	238	172	150	145	353
85°	63	68	79	84	83	73
90°	9	28	54	66	68	8
95°	10	29	54	66	68	8
105°	8	22	49	63	66	8
115°	5	15	38	54	58	5
125°	3	10	27	40	44	3
135°	2	8	19	28	31	2
145°	3	6	13	19	22	2
155°	3	5	9	12	15	1
165°	3	4	6	7	9	1
175°	3	4	5	5	4	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3301.5	3301.5	3301.5	3301.5	3301.5
2.5°	3320.1	3312.8	3274.9	3303.5	3294.9
5°	3314.8	3306.1	3263.7	3288.2	3276.3
7.5°	3303.5	3292.9	3245.1	3261.7	3247.1
10°	3285.6	3272.3	3215.2	3218.5	3201.9
12.5°	3266.3	3245.7	3176.0	3166.7	3146.1
15°	3239.7	3213.9	3126.9	3098.3	3073.7
17.5°	3209.2	3173.3	3065.8	3015.3	2983.4
20°	3171.4	3123.5	2990.1	2913.1	2863.9
22.5°	3134.8	3064.4	2899.8	2789.5	2737.7
25°	3079.1	2998.7	2792.2	2640.1	2581.7
27.5°	3023.9	2915.7	2660.1	2473.5	2405.7
30°	2959.5	2817.4	2515.3	2285.6	2201.9
32.5°	2885.2	2709.9	2347.3	2090.3	2001.4
35°	2793.5	2571.7	2157.4	1875.2	1792.9
37.5°	2695.3	2419.7	1961.5	1670.7	1585.7
40°	2581.0	2258.3	1739.7	1458.2	1380.5
42.5°	2454.2	2073.7	1533.9	1258.3	1180.6
45°	2311.4	1877.2	1334.7	1075.0	1002.0
47.5°	2147.4	1676.0	1142.1	909.7	848.6
50°	1956.2	1474.8	961.5	763.6	718.5
52.5°	1763.6	1285.5	816.1	647.4	598.9
55°	1557.1	1100.9	685.9	542.5	503.3
57.5°	1357.3	937.6	573.0	454.9	427.6
60°	1172.0	791.5	484.7	383.8	361.9
62.5°	994.0	667.3	405.7	324.7	305.4
65°	824.0	552.5	343.3	276.9	262.3
67.5°	674.6	461.5	289.5	236.4	225.1
70°	545.2	373.2	243.7	202.5	193.2
72.5°	424.3	299.5	204.5	175.3	167.3
75°	320.1	238.4	172.0	150.1	145.4
77.5°	241.0	185.3	142.1	129.5	126.2
80°	166.7	138.1	117.5	112.2	110.2
82.5°	106.2	98.9	96.3	96.3	96.3
85°	63.1	67.7	79.0	83.7	83.0
87.5°	29.9	44.5	63.7	72.4	73.7
90°	8.6	27.9	53.8	65.7	67.7
92.5°	10.0	28.6	53.8	65.7	67.7
95°	10.0	29.2	54.4	65.7	67.7
97.5°	10.0	27.9	53.8	66.4	68.4
100°	10.0	27.2	53.1	65.7	68.4
102.5°	8.6	25.2	51.1	65.1	67.7
105°	8.0	21.9	49.1	63.1	66.4
107.5°	6.6	19.9	47.1	61.1	65.1
110°	6.0	17.9	44.5	59.1	63.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.3	15.9	41.2	57.1	61.1
115°	4.6	14.6	37.8	53.8	58.4
117.5°	4.0	13.3	34.5	50.5	55.8
120°	3.3	12.0	31.9	47.1	51.8
122.5°	3.3	11.3	29.2	43.2	48.5
125°	2.7	10.0	27.2	39.8	44.5
127.5°	2.7	9.3	24.6	36.5	40.5
130°	2.0	9.3	22.6	33.9	37.8
132.5°	2.0	8.6	19.9	30.5	34.5
135°	2.0	8.0	18.6	27.9	31.2
137.5°	2.0	8.0	16.6	25.9	29.2
140°	2.7	7.3	14.6	23.2	26.6
142.5°	2.7	6.6	13.9	21.2	23.9
145°	2.7	6.0	12.6	19.3	21.9
147.5°	2.7	6.0	11.3	17.3	19.9
150°	2.7	5.3	10.6	15.3	17.9
152.5°	2.7	5.3	10.0	13.3	16.6
155°	2.7	5.3	8.6	12.0	15.3
157.5°	2.7	4.6	8.0	10.6	13.3
160°	3.3	4.6	7.3	9.3	12.0
162.5°	3.3	4.6	6.6	8.6	10.6
165°	3.3	4.0	6.0	7.3	9.3
167.5°	3.3	4.0	6.0	6.6	8.0
170°	3.3	4.0	5.3	5.3	6.0
172.5°	3.3	4.0	4.6	5.3	4.0
175°	3.3	4.0	4.6	4.6	4.0
177.5°	3.3	4.0	4.0	4.6	4.0
180°	4.0	4.0	4.0	4.0	4.0



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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	20.88	22.26	21.29	22.64	23.02	16.00	17.38	16.41	17.76	18.14
	3H	21.97	23.21	22.40	23.60	24.03	17.14	18.38	17.57	18.77	19.20
	4H	22.27	23.43	22.71	23.83	24.28	17.65	18.80	18.09	19.21	19.66
	6H	22.41	23.48	22.87	23.90	24.36	18.15	19.22	18.61	19.64	20.10
	8H	22.43	23.44	22.90	23.89	24.36	18.42	19.43	18.89	19.88	20.35
	12H	22.42	23.39	22.90	23.83	24.32	18.71	19.68	19.19	20.12	20.62
4H	2H	20.85	22.01	21.30	22.42	22.86	16.50	17.66	16.95	18.06	18.51
	3H	22.09	23.04	22.55	23.50	23.97	17.82	18.78	18.28	19.23	19.70
	4H	22.46	23.32	22.94	23.79	24.29	18.42	19.28	18.89	19.74	20.25
	6H	22.69	23.43	23.19	23.93	24.46	19.04	19.79	19.55	20.29	20.81
	8H	22.72	23.42	23.23	23.92	24.45	19.37	20.07	19.88	20.56	21.09
	12H	22.73	23.35	23.26	23.88	24.42	19.74	20.37	20.27	20.89	21.43
8H	4H	22.44	23.14	22.95	23.64	24.17	18.66	19.36	19.17	19.85	20.39
	6H	22.72	23.29	23.26	23.83	24.38	19.39	19.97	19.94	20.51	21.05
	8H	22.78	23.30	23.34	23.86	24.41	19.80	20.32	20.36	20.88	21.43
	12H	22.82	23.28	23.37	23.82	24.45	20.29	20.75	20.85	21.29	21.92
12H	4H	22.42	23.04	22.95	23.57	24.11	18.68	19.30	19.20	19.83	20.36
	6H	22.69	23.21	23.25	23.77	24.32	19.43	19.95	19.99	20.51	21.06
	8H	22.79	23.25	23.35	23.79	24.42	19.89	20.35	20.45	20.89	21.52