

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: P892876

Luminaire Tested: 2MB-5HL-RND-UNV-L950

Issue Date: 11/11/2024

**Test Information**

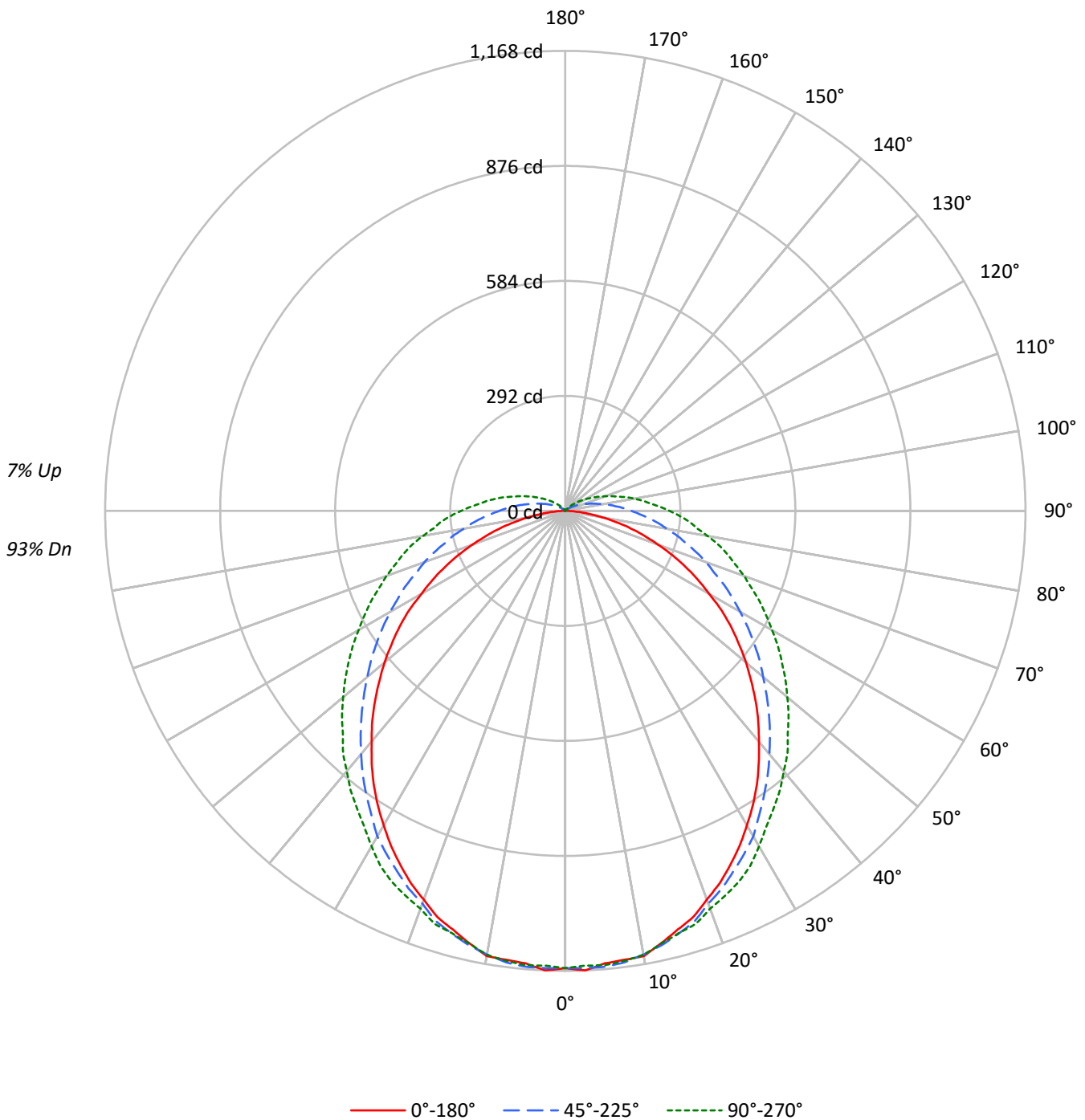
Test Method: LM-79-2019  
Report Number: P892876  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2403-334-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-5HL-RND-UNV-L950  
Description: 5000 Lumen 2FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3784.1 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.34  
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 4.5  
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°	110.0	2.9
10°-20°	312.8	8.3
20°-30°	466.6	12.3
30°-40°	552.3	14.6
40°-50°	569.0	15.0
50°-60°	526.1	13.9
60°-70°	437.3	11.6
70°-80°	327.2	8.6
80°-90°	216.8	5.7
90°-100°	132.7	3.5
100°-110°	75.0	2.0
110°-120°	37.3	1.0
120°-130°	15.4	0.4
130°-140°	4.5	0.1
140°-150°	0.7	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	889.3	23.5
0°-40°	1441.7	38.1
0°-60°	2536.8	67.0
0°-90°	3518.1	93.0
90°-120°	245.0	6.5
90°-150°	265.7	7.0
90°-180°	266.0	7.0
0°-180°	3784.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1153	1147	1162	1158	1157	110
15°	1101	1101	1111	1122	1110	311
25°	991	995	1010	1029	1040	456
35°	848	856	880	916	922	530
45°	684	690	731	783	798	527
55°	514	526	584	648	671	458
65°	337	364	445	515	544	334
75°	172	222	316	394	426	182
85°	39	114	213	286	316	45
90°	4	74	168	236	264	4
95°	1	46	130	196	216	1
105°	1	16	71	121	139	1
115°	1	4	34	68	82	1
125°	1	1	13	32	41	1
135°	1	1	4	10	15	1
145°	1	1	0	1	2	1
155°	1	1	0	0	0	0
165°	1	1	0	0	0	0
175°	2	1	0	0	0	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1160.9	1160.9	1160.9	1160.9	1160.9
2.5°	1167.8	1153.9	1161.8	1160.0	1155.7
5°	1153.1	1147.0	1161.8	1158.3	1157.4
7.5°	1149.6	1147.0	1155.7	1152.2	1152.2
10°	1147.8	1130.4	1143.5	1152.2	1144.4
12.5°	1124.4	1120.0	1129.6	1130.4	1125.2
15°	1100.9	1100.9	1111.3	1121.8	1110.4
17.5°	1080.9	1079.1	1092.2	1100.0	1100.0
20°	1050.4	1053.1	1060.9	1075.7	1074.8
22.5°	1023.5	1030.4	1038.3	1055.7	1058.3
25°	991.3	994.8	1009.6	1028.7	1040.0
27.5°	958.3	963.5	982.6	1003.5	1016.5
30°	921.7	921.7	953.9	978.3	983.5
32.5°	886.1	887.0	915.7	942.6	949.6
35°	847.8	856.5	880.0	916.5	921.7
37.5°	807.0	812.2	844.4	877.4	894.8
40°	764.4	773.1	806.1	852.2	862.6
42.5°	725.2	732.2	768.7	816.5	834.8
45°	683.5	690.4	731.3	782.6	798.3
47.5°	640.0	648.7	693.1	753.9	768.7
50°	599.1	606.1	655.7	717.4	735.7
52.5°	555.7	567.0	620.9	680.9	704.4
55°	513.9	526.1	584.4	647.8	671.3
57.5°	470.4	487.0	548.7	614.8	640.0
60°	421.7	443.5	513.0	583.5	606.1
62.5°	380.0	403.5	477.4	547.0	574.8
65°	337.4	363.5	445.2	514.8	544.4
67.5°	294.8	326.1	408.7	482.6	511.3
70°	251.3	291.3	380.0	453.9	482.6
72.5°	210.4	255.7	348.7	426.1	452.2
75°	172.2	221.7	316.5	393.9	426.1
77.5°	133.9	191.3	291.3	369.6	398.3
80°	97.4	161.7	261.7	340.0	367.0
82.5°	67.0	136.5	238.3	313.9	336.5
85°	39.1	113.9	213.0	286.1	316.5
87.5°	18.3	92.2	188.7	260.9	290.4
90°	3.5	73.9	167.8	236.5	264.4
92.5°	0.9	59.1	149.6	217.4	240.0
95°	0.9	46.1	130.4	195.7	216.5
97.5°	0.9	35.7	113.9	175.7	198.3
100°	0.9	27.0	98.3	157.4	178.3
102.5°	0.9	20.9	83.5	138.3	160.0
105°	0.9	15.7	71.3	120.9	139.1
107.5°	0.9	11.3	60.0	107.0	124.3
110°	0.9	8.7	50.4	93.9	108.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	6.1	40.9	80.0	94.8
115°	0.9	4.3	33.9	67.8	81.7
117.5°	0.9	2.6	27.0	57.4	69.6
120°	0.9	1.7	21.7	47.8	59.1
122.5°	0.9	1.7	16.5	39.1	49.6
125°	0.9	0.9	13.0	32.2	40.9
127.5°	0.9	0.9	9.6	25.2	32.2
130°	0.9	0.9	7.0	19.1	25.2
132.5°	0.9	0.9	4.3	14.8	19.1
135°	0.9	0.9	3.5	10.4	14.8
137.5°	0.9	0.9	1.7	7.0	9.6
140°	0.9	0.9	0.9	4.3	6.1
142.5°	0.9	0.9	0.9	2.6	3.5
145°	0.9	0.9	0.0	0.9	1.7
147.5°	0.9	0.9	0.0	0.9	0.9
150°	0.9	0.9	0.0	0.0	0.0
152.5°	0.9	0.9	0.0	0.0	0.0
155°	0.9	0.9	0.0	0.0	0.0
157.5°	0.9	0.9	0.0	0.0	0.0
160°	0.9	0.9	0.0	0.0	0.0
162.5°	0.9	0.9	0.0	0.0	0.0
165°	0.9	0.9	0.0	0.0	0.0
167.5°	0.9	0.9	0.0	0.0	0.0
170°	0.9	0.9	0.0	0.0	0.0
172.5°	1.7	0.9	0.0	0.0	0.0
175°	1.7	0.9	0.0	0.0	0.0
177.5°	1.7	0.9	0.0	0.0	0.0
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	19.85	21.38	20.32	21.84	22.32	21.58	23.12	22.05	23.57	24.06
	3H	21.58	22.98	22.06	23.45	23.97	24.15	25.55	24.64	26.02	26.55
	4H	22.23	23.56	22.73	24.04	24.58	25.45	26.78	25.96	27.27	27.81
	6H	22.70	23.93	23.21	24.43	24.99	26.85	28.09	27.37	28.59	29.14
	8H	22.85	24.03	23.37	24.55	25.11	27.58	28.77	28.11	29.29	29.85
	12H	22.94	24.08	23.48	24.59	25.19	28.43	29.56	28.96	30.08	30.67
4H	2H	20.82	22.15	21.33	22.63	23.17	22.13	23.46	22.64	23.95	24.49
	3H	22.83	23.96	23.35	24.49	25.05	25.00	26.13	25.51	26.66	27.22
	4H	23.63	24.67	24.16	25.20	25.80	26.51	27.55	27.05	28.09	28.68
	6H	24.27	25.19	24.82	25.75	26.36	28.15	29.07	28.70	29.63	30.24
	8H	24.49	25.36	25.05	25.92	26.54	29.01	29.87	29.57	30.43	31.05
	12H	24.66	25.44	25.24	26.04	26.66	30.00	30.79	30.58	31.38	32.00
8H	4H	24.50	25.37	25.07	25.93	26.55	26.87	27.74	27.43	28.30	28.92
	6H	25.42	26.15	26.01	26.76	27.38	28.76	29.50	29.36	30.10	30.73
	8H	25.80	26.46	26.40	27.08	27.72	29.83	30.49	30.44	31.11	31.75
	12H	26.12	26.71	26.73	27.32	28.02	31.08	31.68	31.69	32.28	32.99
12H	4H	24.78	25.56	25.36	26.16	26.78	26.91	27.70	27.50	28.29	28.92
	6H	25.86	26.52	26.46	27.14	27.78	28.87	29.54	29.48	30.15	30.79
	8H	26.40	26.99	27.01	27.60	28.30	30.05	30.64	30.66	31.25	31.95