

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: P893416

Luminaire Tested: 4MB-3SL-LVR-UNV-L950

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P893416  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-3SL-LVR-UNV-L950  
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

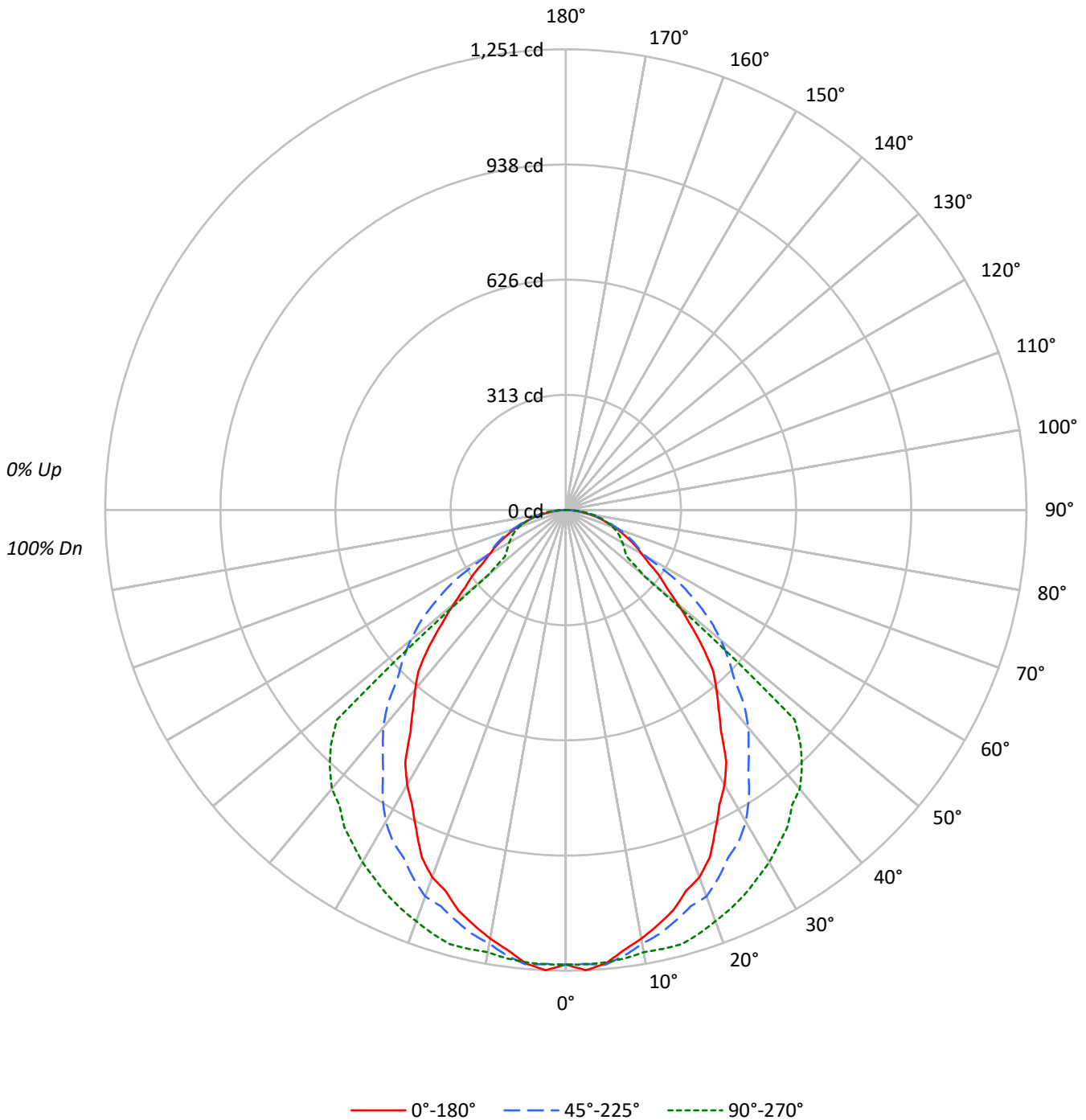
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2634.0 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27  
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 5.2  
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50	50	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36	36	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	33	33	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30	30	30

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

	0°	45°	90°
0°	8782	8782	8782
5°	8829	8851	8806
10°	8540	8639	8808
15°	8293	8502	8989
20°	8033	8453	8997
25°	7537	8180	9037
30°	7079	8032	9073
35°	6384	7512	9117
40°	5914	7167	9180
45°	5290	6495	9077
50°	4389	6085	3050
55°	3824	5341	2440
60°	3382	3481	2530
65°	3216	3386	2685
70°	3016	3199	2833
75°	2807	3016	2911
80°	2557	2839	3048
85°	2261	2416	3290

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 9077 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.1	4.4
10°-20°	329.3	12.5
20°-30°	484.5	18.4
30°-40°	554.0	21.0
40°-50°	524.6	19.9
50°-60°	289.1	11.0
60°-70°	185.6	7.0
70°-80°	114.5	4.3
80°-90°	35.2	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	930.9	35.3
0°-40°	1484.9	56.4
0°-60°	2298.6	87.3
0°-90°	2634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2634.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1236	1246	1239	1239	1233	116
15°	1126	1140	1154	1215	1220	316
25°	960	1003	1042	1110	1151	442
35°	735	798	865	990	1050	465
45°	526	576	646	828	902	402
55°	308	323	431	222	197	276
65°	191	197	201	179	160	189
75°	102	104	110	115	106	109
85°	28	28	30	34	40	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1234.3	1234.3	1234.3	1234.3	1234.3
2.5°	1250.7	1253.8	1233.7	1233.0	1234.9
5°	1236.2	1246.3	1239.3	1239.3	1233.0
7.5°	1205.3	1222.3	1220.4	1234.9	1228.0
10°	1182.0	1195.8	1195.8	1233.7	1219.2
12.5°	1154.2	1170.0	1178.8	1218.5	1220.4
15°	1125.9	1139.7	1154.2	1214.8	1220.4
17.5°	1084.9	1110.1	1128.4	1187.6	1205.9
20°	1060.9	1076.1	1116.4	1164.3	1188.3
22.5°	1021.2	1043.3	1082.4	1136.0	1171.3
25°	960.1	1002.9	1042.0	1110.1	1151.1
27.5°	903.3	935.5	1016.2	1088.0	1127.1
30°	861.7	887.0	977.7	1055.9	1104.4
32.5°	811.3	852.3	926.0	1024.4	1076.1
35°	735.0	798.1	864.9	990.3	1049.6
37.5°	681.4	724.9	815.7	955.0	1009.9
40°	636.7	676.4	771.6	910.9	988.4
42.5°	591.9	624.1	716.1	878.1	948.7
45°	525.7	575.5	645.5	828.3	902.1
47.5°	456.4	509.4	599.5	786.1	842.8
50°	396.5	438.7	549.7	702.3	275.5
52.5°	344.2	383.3	496.7	254.0	208.0
55°	308.3	323.4	430.6	221.9	196.7
57.5°	265.4	290.0	361.2	211.2	186.6
60°	237.7	248.4	244.6	200.5	177.8
62.5°	215.6	223.2	221.9	189.7	167.7
65°	191.0	197.3	201.1	179.0	159.5
67.5°	166.4	172.1	177.8	165.8	148.1
70°	145.0	148.8	153.8	150.0	136.2
72.5°	122.9	127.3	130.5	133.6	120.4
75°	102.1	104.0	109.7	115.4	105.9
77.5°	83.2	85.1	88.9	95.2	90.1
80°	62.4	64.3	69.3	74.4	74.4
82.5°	44.1	45.4	48.5	55.5	58.6
85°	27.7	27.7	29.6	34.0	40.3
87.5°	10.7	10.7	12.6	15.1	20.2
90°	0.0	0.0	0.0	0.0	0.0



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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	15.50	16.98	15.86	17.30	17.61	13.30	14.78	13.67	15.10	15.41
	3H	17.03	18.35	17.40	18.68	19.04	15.63	16.96	16.01	17.29	17.65
	4H	17.62	18.86	18.02	19.21	19.59	16.58	17.82	16.98	18.17	18.55
	6H	18.07	19.22	18.49	19.59	19.98	17.37	18.51	17.78	18.88	19.27
	8H	18.22	19.31	18.65	19.70	20.10	17.68	18.77	18.10	19.16	19.56
	12H	18.31	19.36	18.75	19.74	20.17	17.93	18.97	18.36	19.35	19.78
4H	2H	16.05	17.29	16.45	17.64	18.02	14.41	15.65	14.81	16.00	16.38
	3H	17.82	18.85	18.23	19.25	19.65	16.85	17.88	17.26	18.28	18.68
	4H	18.54	19.47	18.97	19.88	20.32	17.92	18.84	18.35	19.26	19.70
	6H	19.13	19.93	19.58	20.38	20.84	18.81	19.61	19.26	20.05	20.52
	8H	19.32	20.07	19.78	20.51	20.98	19.16	19.91	19.62	20.35	20.82
	12H	19.45	20.13	19.94	20.60	21.08	19.44	20.12	19.93	20.60	21.07
8H	4H	18.85	19.60	19.31	20.05	20.51	18.30	19.06	18.77	19.50	19.97
	6H	19.56	20.18	20.06	20.68	21.15	19.34	19.96	19.84	20.46	20.93
	8H	19.82	20.38	20.34	20.89	21.38	19.78	20.35	20.30	20.86	21.35
	12H	20.03	20.53	20.54	21.02	21.59	20.17	20.67	20.68	21.16	21.73
12H	4H	18.88	19.56	19.37	20.04	20.51	18.34	19.01	18.82	19.49	19.96
	6H	19.62	20.19	20.14	20.70	21.19	19.40	19.97	19.92	20.48	20.97
	8H	19.94	20.44	20.45	20.94	21.50	19.91	20.41	20.42	20.90	21.47