

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: P893424

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

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P893424  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-3SL-LVRA-UNV-L950  
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

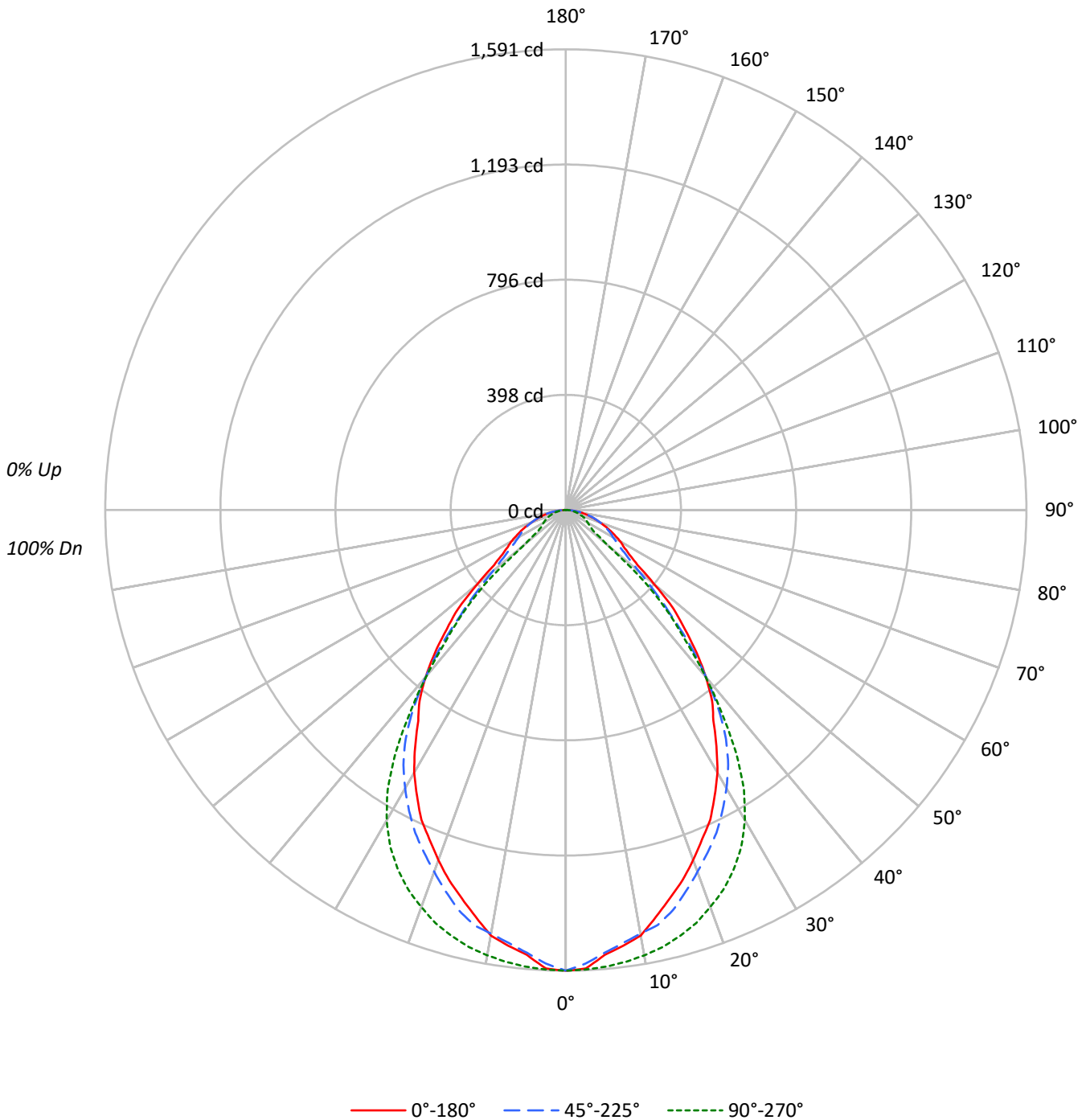
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2582.0 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12  
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	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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

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

	0°	45°	90°
0°	11319	11319	11319
5°	11014	10965	11307
10°	10780	10732	11281
15°	10224	10538	11218
20°	9739	10068	11046
25°	9264	9660	10764
30°	8607	9119	10164
35°	7717	8380	8914
40°	6992	7008	6970
45°	5846	5178	5050
50°	4417	3645	2065
55°	3321	2914	1302
60°	3086	2684	1255
65°	2872	2679	1256
70°	2627	2627	1238
75°	2491	2559	1196
80°	2303	2417	1225
85°	2008	2106	1339

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 5982 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.0	5.7
10°-20°	404.9	15.7
20°-30°	574.2	22.2
30°-40°	591.5	22.9
40°-50°	413.2	16.0
50°-60°	198.2	7.7
60°-70°	139.1	5.4
70°-80°	87.0	3.4
80°-90°	26.9	1.0
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°	1126.1	43.6
0°-40°	1717.6	66.5
0°-60°	2329.0	90.2
0°-90°	2582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2582.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1542	1540	1535	1575	1583	146
15°	1388	1398	1431	1472	1523	391
25°	1180	1192	1230	1314	1371	540
35°	888	913	965	985	1026	560
45°	581	594	515	488	502	448
55°	268	255	235	150	105	251
65°	171	160	159	121	75	169
75°	91	89	93	80	44	95
85°	25	25	26	25	16	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1590.9	1590.9	1590.9	1590.9	1590.9
2.5°	1584.8	1579.8	1568.0	1589.7	1588.0
5°	1542.1	1540.1	1535.2	1575.3	1583.1
7.5°	1517.9	1513.8	1508.1	1552.4	1574.1
10°	1492.1	1497.0	1485.5	1526.1	1561.4
12.5°	1438.8	1451.9	1467.5	1499.1	1545.8
15°	1388.0	1398.2	1430.6	1471.6	1522.9
17.5°	1340.4	1352.3	1380.2	1441.7	1496.2
20°	1286.3	1302.7	1329.7	1408.5	1458.9
22.5°	1230.5	1245.7	1279.7	1364.2	1420.3
25°	1180.1	1192.0	1230.5	1313.7	1371.1
27.5°	1113.2	1135.4	1171.9	1252.2	1312.5
30°	1047.6	1066.5	1110.0	1177.6	1237.1
32.5°	968.5	996.0	1043.9	1095.6	1145.2
35°	888.5	912.7	964.8	984.9	1026.3
37.5°	830.3	836.9	866.4	863.9	887.3
40°	752.8	765.9	754.5	723.7	750.4
42.5°	669.2	684.8	638.4	602.7	612.2
45°	581.0	594.5	514.6	488.3	501.9
47.5°	504.7	503.5	415.0	397.3	378.5
50°	399.0	412.1	329.3	296.5	186.6
52.5°	311.6	316.5	271.4	189.4	122.6
55°	267.7	254.6	234.9	150.5	105.0
57.5°	237.8	221.4	208.3	139.8	95.9
60°	216.9	198.5	188.6	132.8	88.2
62.5°	193.1	178.8	175.1	126.7	81.2
65°	170.6	159.5	159.1	121.0	74.6
67.5°	148.0	141.9	143.5	114.0	67.2
70°	126.3	125.1	126.3	105.0	59.5
72.5°	107.8	106.6	109.9	93.5	50.8
75°	90.6	89.4	93.1	80.4	43.5
77.5°	72.2	73.0	75.4	66.8	36.5
80°	56.2	56.2	59.0	52.5	29.9
82.5°	40.2	40.6	42.2	38.5	23.4
85°	24.6	24.6	25.8	25.4	16.4
87.5°	8.2	9.4	11.1	11.9	8.2
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	14.08	15.43	14.44	15.74	16.06	10.41	11.76	10.77	12.07	12.39
	3H	15.82	17.02	16.20	17.35	17.72	12.39	13.59	12.76	13.92	14.29
	4H	16.49	17.61	16.89	17.96	18.35	13.09	14.22	13.49	14.57	14.95
	6H	16.99	18.03	17.41	18.40	18.80	13.61	14.65	14.03	15.02	15.41
	8H	17.17	18.15	17.60	18.54	18.95	13.80	14.78	14.23	15.17	15.58
	12H	17.28	18.22	17.71	18.60	19.03	13.94	14.88	14.37	15.26	15.69
4H	2H	14.61	15.73	15.01	16.09	16.47	12.03	13.16	12.43	13.51	13.89
	3H	16.59	17.52	17.00	17.92	18.32	14.21	15.14	14.62	15.54	15.95
	4H	17.39	18.22	17.82	18.64	19.08	15.09	15.93	15.52	16.34	16.79
	6H	18.03	18.76	18.49	19.20	19.67	15.73	16.46	16.19	16.90	17.37
	8H	18.25	18.93	18.72	19.37	19.84	15.94	16.62	16.41	17.06	17.53
	12H	18.40	19.01	18.89	19.49	19.96	16.10	16.70	16.58	17.18	17.65
8H	4H	17.67	18.35	18.14	18.79	19.26	15.74	16.42	16.21	16.86	17.33
	6H	18.45	19.01	18.96	19.51	19.99	16.60	17.16	17.10	17.65	18.13
	8H	18.76	19.26	19.28	19.77	20.26	16.93	17.43	17.45	17.94	18.43
	12H	18.99	19.43	19.51	19.93	20.50	17.19	17.63	17.70	18.12	18.69
12H	4H	17.69	18.29	18.17	18.77	19.24	15.81	16.41	16.30	16.89	17.37
	6H	18.51	19.01	19.03	19.52	20.01	16.74	17.24	17.26	17.75	18.24
	8H	18.87	19.31	19.39	19.81	20.38	17.15	17.59	17.66	18.08	18.65