

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: P892533

Luminaire Tested: 2MB-2SL-LVR-UNV-L830

Issue Date: 11/11/2024

**Test Information**

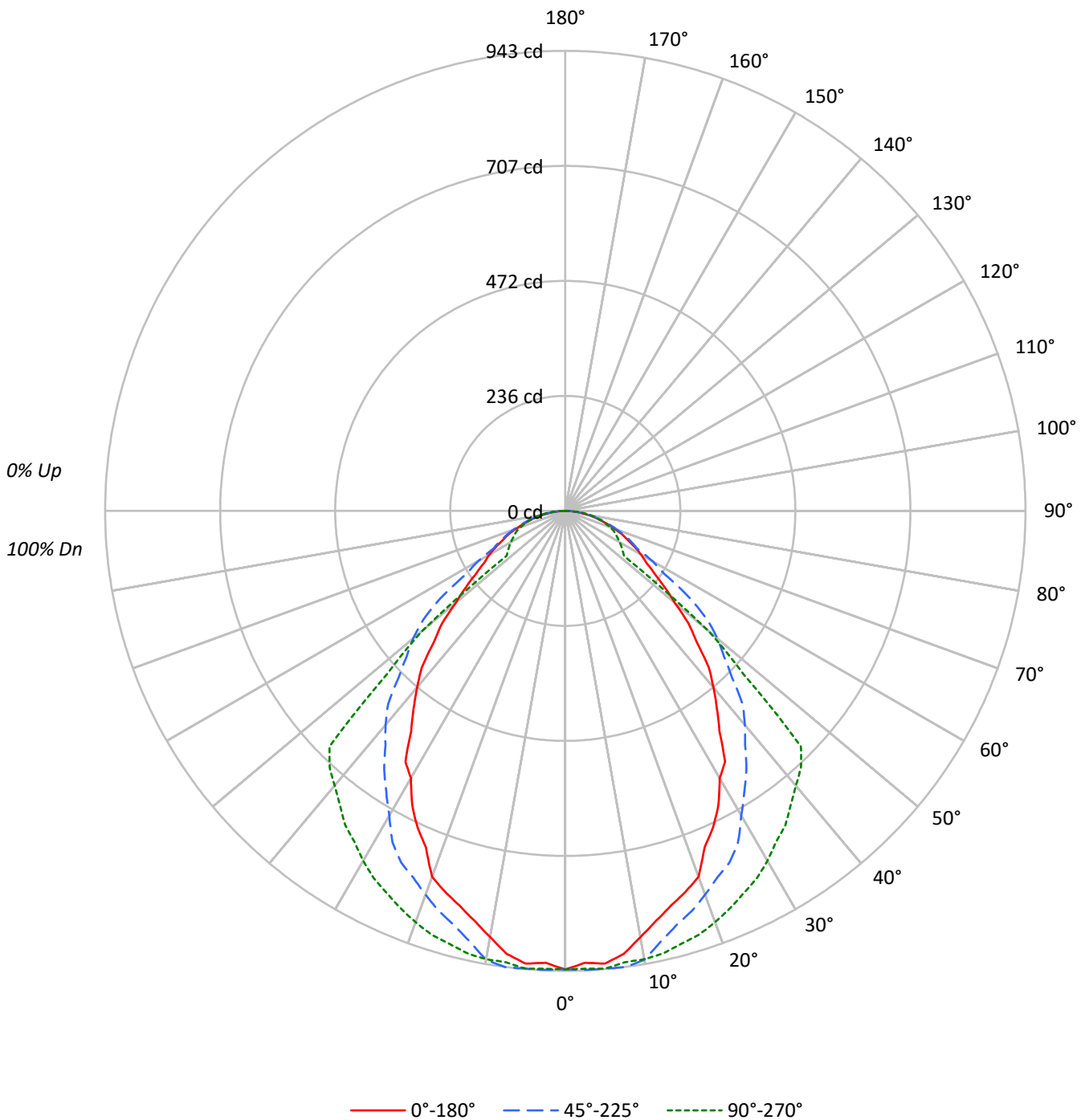
Test Method: LM-79-2019  
Report Number: P892533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-2SL-LVR-UNV-L830  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1961.0 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.3 / 1.26  
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.92  
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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	42	42	42	40
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	38	37
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

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

	0°	45°	90°
0°	13446	13446	13446
5°	13375	13522	13522
10°	12885	13567	13554
15°	12403	13023	13605
20°	12151	12750	13659
25°	11306	12560	13650
30°	10450	11916	13679
35°	9616	11301	13732
40°	8816	10697	13726
45°	7704	9776	13818
50°	6516	9062	8551
55°	5537	7794	3577
60°	5130	5911	3688
65°	4769	5027	3872
70°	4501	4747	4070
75°	4151	4483	4201
80°	3798	4152	4432
85°	3365	3792	4760

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 13818 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.1	4.5
10°-20°	249.5	12.7
20°-30°	362.7	18.5
30°-40°	410.7	20.9
40°-50°	383.6	19.6
50°-60°	218.0	11.1
60°-70°	137.0	7.0
70°-80°	84.0	4.3
80°-90°	26.4	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°	701.3	35.8
0°-40°	1112.0	56.7
0°-60°	1713.6	87.4
0°-90°	1961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	931	941	942	938	942	87
15°	838	852	879	927	919	237
25°	716	730	796	832	865	329
35°	551	587	647	732	786	347
45°	381	420	483	614	683	297
55°	222	242	312	164	143	203
65°	141	146	148	129	114	141
75°	75	78	81	83	76	80
85°	20	21	23	26	29	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	939.9	939.9	939.9	939.9	939.9
2.5°	927.1	937.4	941.6	940.8	939.1
5°	931.4	940.8	941.6	938.2	941.6
7.5°	916.0	938.2	943.3	934.8	933.1
10°	887.0	899.8	934.0	937.4	933.1
12.5°	860.5	875.9	904.1	937.4	928.8
15°	837.5	852.0	879.3	927.1	918.6
17.5°	818.7	823.8	860.5	916.0	910.9
20°	798.2	808.5	837.5	888.7	897.2
22.5°	746.1	774.3	813.6	864.8	881.9
25°	716.3	729.9	795.7	831.5	864.8
27.5°	679.6	704.3	766.6	805.9	849.4
30°	632.6	660.8	721.4	779.4	828.1
32.5°	609.5	619.8	683.0	758.1	804.2
35°	550.6	587.3	647.1	731.6	786.3
37.5°	510.5	532.7	605.3	706.0	758.9
40°	472.1	497.7	572.8	677.8	735.0
42.5°	435.4	458.4	537.8	649.7	714.6
45°	380.8	420.0	483.2	613.8	683.0
47.5°	343.2	367.9	440.5	570.3	495.1
50°	292.8	322.7	407.2	391.0	384.2
52.5°	256.1	272.3	367.1	330.4	152.0
55°	222.0	242.5	312.5	163.9	143.4
57.5°	196.4	210.0	239.9	152.0	136.6
60°	179.3	182.7	206.6	145.1	128.9
62.5°	160.5	163.9	164.8	137.4	121.2
65°	140.9	146.0	148.5	128.9	114.4
67.5°	126.3	127.2	130.6	119.5	107.6
70°	107.6	109.3	113.5	109.3	97.3
72.5°	91.3	93.9	96.5	97.3	87.1
75°	75.1	77.7	81.1	82.8	76.0
77.5°	61.5	62.3	65.7	70.0	64.9
80°	46.1	48.7	50.4	54.6	53.8
82.5°	33.3	34.1	36.7	40.1	41.8
85°	20.5	21.3	23.1	25.6	29.0
87.5°	8.5	9.4	10.2	12.0	13.7
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	16.75	18.23	17.11	18.54	18.85	14.49	15.97	14.86	16.29	16.60
	3H	18.33	19.66	18.71	19.99	20.35	16.83	18.15	17.21	18.48	18.84
	4H	18.94	20.18	19.34	20.52	20.90	17.77	19.01	18.17	19.36	19.74
	6H	19.40	20.54	19.81	20.91	21.30	18.56	19.71	18.98	20.07	20.47
	8H	19.55	20.64	19.98	21.03	21.43	18.87	19.96	19.30	20.35	20.75
	12H	19.65	20.69	20.08	21.07	21.50	19.12	20.16	19.55	20.54	20.97
4H	2H	17.32	18.56	17.72	18.91	19.29	15.65	16.89	16.05	17.24	17.62
	3H	19.14	20.16	19.55	20.56	20.97	18.09	19.11	18.50	19.51	19.92
	4H	19.87	20.79	20.30	21.21	21.65	19.14	20.06	19.57	20.48	20.92
	6H	20.46	21.27	20.92	21.71	22.17	20.03	20.83	20.49	21.28	21.74
	8H	20.66	21.41	21.12	21.86	22.32	20.38	21.13	20.84	21.57	22.04
	12H	20.80	21.47	21.29	21.95	22.42	20.66	21.33	21.14	21.81	22.28
8H	4H	20.18	20.93	20.64	21.37	21.84	19.54	20.29	20.00	20.73	21.20
	6H	20.90	21.52	21.40	22.01	22.49	20.58	21.20	21.08	21.70	22.17
	8H	21.17	21.73	21.69	22.24	22.73	21.02	21.58	21.53	22.09	22.58
	12H	21.39	21.89	21.90	22.38	22.94	21.40	21.90	21.91	22.39	22.96
12H	4H	20.21	20.88	20.70	21.36	21.83	19.58	20.25	20.06	20.73	21.20
	6H	20.96	21.52	21.48	22.04	22.52	20.65	21.21	21.16	21.72	22.21
	8H	21.30	21.79	21.81	22.29	22.85	21.15	21.65	21.66	22.14	22.71