

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: P892537

Luminaire Tested: 2MB-2SL-LVR-UNV-L930

Issue Date: 11/11/2024

**Test Information**

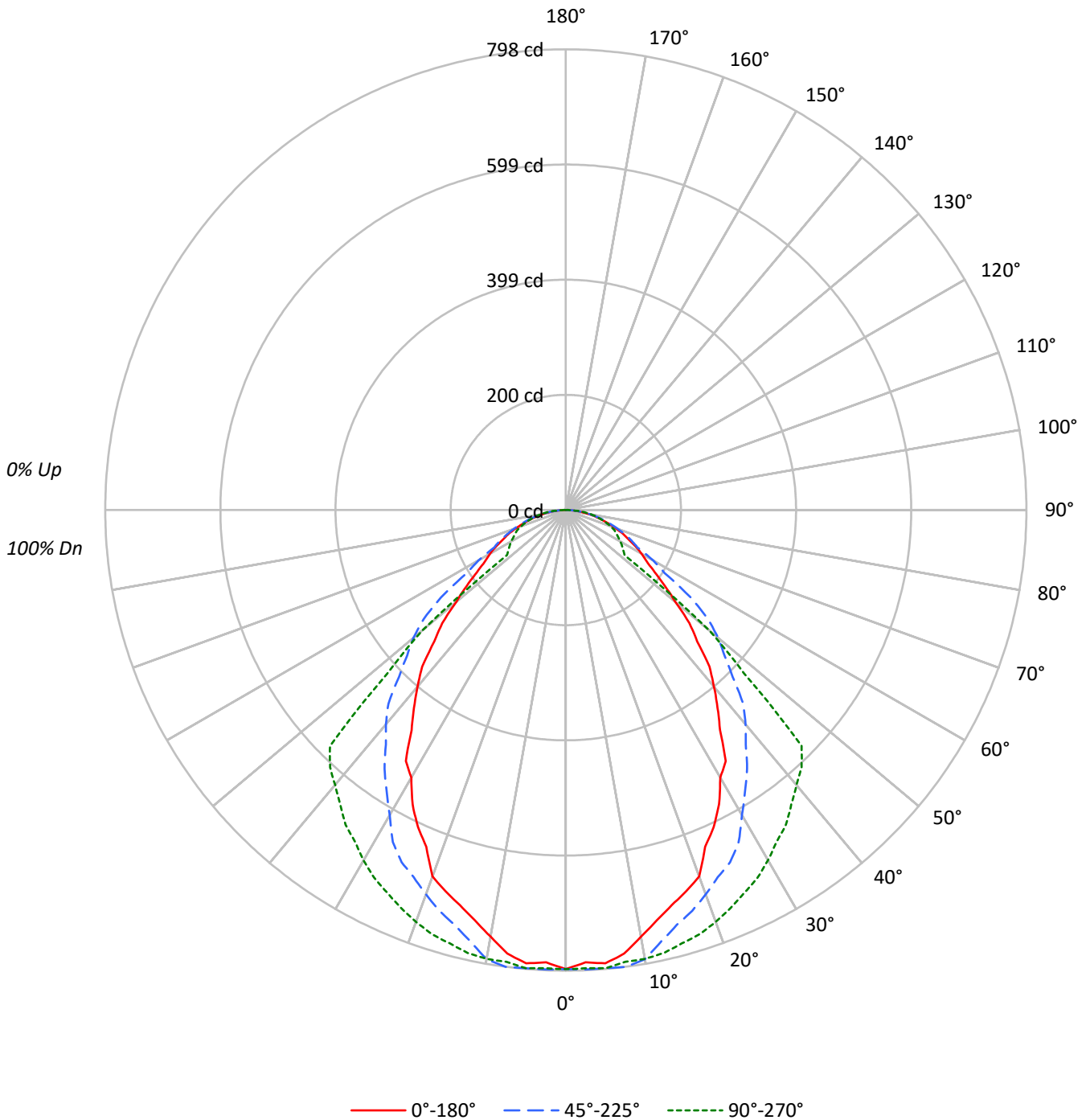
Test Method: LM-79-2019  
Report Number: P892537  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-2SL-LVR-UNV-L930  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1659.0 lumens  
Efficiency: N/A  
Efficacy: 111.3 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°	11376	11376	11376
5°	11316	11439	11439
10°	10900	11477	11467
15°	10493	11017	11509
20°	10280	10786	11556
25°	9565	10624	11548
30°	8841	10081	11573
35°	8135	9561	11617
40°	7459	9050	11612
45°	6516	8270	11689
50°	5513	7667	7233
55°	4684	6592	3025
60°	4340	5001	3121
65°	4035	4255	3277
70°	3806	4020	3442
75°	3515	3792	3554
80°	3213	3509	3748
85°	2840	3201	4038

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 11689 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.4	4.5
10°-20°	211.1	12.7
20°-30°	306.8	18.5
30°-40°	347.4	20.9
40°-50°	324.6	19.6
50°-60°	184.4	11.1
60°-70°	115.9	7.0
70°-80°	71.1	4.3
80°-90°	22.3	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°	593.3	35.8
0°-40°	940.8	56.7
0°-60°	1449.7	87.4
0°-90°	1659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1659.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	788	796	797	794	797	74
15°	708	721	744	784	777	200
25°	606	618	673	704	732	278
35°	466	497	548	619	665	294
45°	322	355	409	519	578	251
55°	188	205	264	139	121	172
65°	119	124	126	109	97	120
75°	64	66	69	70	64	68
85°	17	18	20	22	25	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	795.2	795.2	795.2	795.2	795.2
2.5°	784.3	793.0	796.6	795.9	794.5
5°	788.0	795.9	796.6	793.7	796.6
7.5°	775.0	793.7	798.1	790.8	789.4
10°	750.4	761.2	790.1	793.0	789.4
12.5°	728.0	741.0	764.8	793.0	785.8
15°	708.5	720.8	743.9	784.3	777.1
17.5°	692.6	697.0	728.0	775.0	770.6
20°	675.3	684.0	708.5	751.8	759.1
22.5°	631.2	655.1	688.3	731.6	746.1
25°	606.0	617.5	673.1	703.5	731.6
27.5°	574.9	595.8	648.6	681.8	718.6
30°	535.2	559.0	610.3	659.4	700.6
32.5°	515.7	524.3	577.8	641.3	680.3
35°	465.8	496.9	547.5	619.0	665.2
37.5°	431.9	450.7	512.1	597.3	642.1
40°	399.4	421.1	484.6	573.5	621.8
42.5°	368.3	387.8	455.0	549.6	604.5
45°	322.1	355.3	408.8	519.3	577.8
47.5°	290.3	311.3	372.7	482.5	418.9
50°	247.7	273.0	344.5	330.8	325.0
52.5°	216.7	230.4	310.6	279.5	128.6
55°	187.8	205.1	264.3	138.7	121.3
57.5°	166.1	177.7	202.9	128.6	115.6
60°	151.7	154.6	174.8	122.8	109.1
62.5°	135.8	138.7	139.4	116.3	102.6
65°	119.2	123.5	125.7	109.1	96.8
67.5°	106.9	107.6	110.5	101.1	91.0
70°	91.0	92.4	96.1	92.4	82.3
72.5°	77.3	79.4	81.6	82.3	73.7
75°	63.6	65.7	68.6	70.1	64.3
77.5°	52.0	52.7	55.6	59.2	54.9
80°	39.0	41.2	42.6	46.2	45.5
82.5°	28.2	28.9	31.1	33.9	35.4
85°	17.3	18.1	19.5	21.7	24.6
87.5°	7.2	7.9	8.7	10.1	11.6
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	16.17	17.64	16.53	17.96	18.27	13.91	15.39	14.28	15.71	16.02
	3H	17.75	19.08	18.13	19.40	19.77	16.25	17.57	16.62	17.90	18.26
	4H	18.36	19.59	18.76	19.94	20.32	17.19	18.43	17.59	18.78	19.16
	6H	18.82	19.96	19.23	20.33	20.72	17.98	19.13	18.39	19.49	19.89
	8H	18.97	20.06	19.40	20.45	20.85	18.29	19.38	18.72	19.77	20.17
	12H	19.07	20.11	19.50	20.49	20.92	18.54	19.58	18.97	19.96	20.39
4H	2H	16.74	17.98	17.14	18.33	18.71	15.07	16.31	15.47	16.66	17.04
	3H	18.56	19.58	18.97	19.98	20.39	17.51	18.53	17.92	18.93	19.33
	4H	19.29	20.21	19.72	20.63	21.07	18.56	19.48	18.99	19.90	20.33
	6H	19.88	20.68	20.34	21.13	21.59	19.45	20.25	19.91	20.70	21.16
	8H	20.08	20.83	20.54	21.28	21.74	19.79	20.55	20.26	20.99	21.46
	12H	20.22	20.89	20.71	21.37	21.84	20.08	20.75	20.56	21.23	21.70
8H	4H	19.60	20.35	20.06	20.79	21.26	18.96	19.71	19.42	20.15	20.62
	6H	20.32	20.94	20.82	21.43	21.91	20.00	20.62	20.50	21.11	21.59
	8H	20.59	21.15	21.11	21.66	22.15	20.44	21.00	20.95	21.51	22.00
	12H	20.81	21.31	21.32	21.80	22.37	20.82	21.32	21.33	21.81	22.38
12H	4H	19.63	20.30	20.11	20.78	21.25	19.00	19.67	19.48	20.15	20.62
	6H	20.38	20.94	20.90	21.45	21.94	20.07	20.63	20.58	21.14	21.63
	8H	20.72	21.21	21.23	21.71	22.27	20.57	21.07	21.08	21.56	22.13