

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: P892535

Luminaire Tested: 2MB-2SL-LVR-UNV-L840

Issue Date: 11/11/2024

**Test Information**

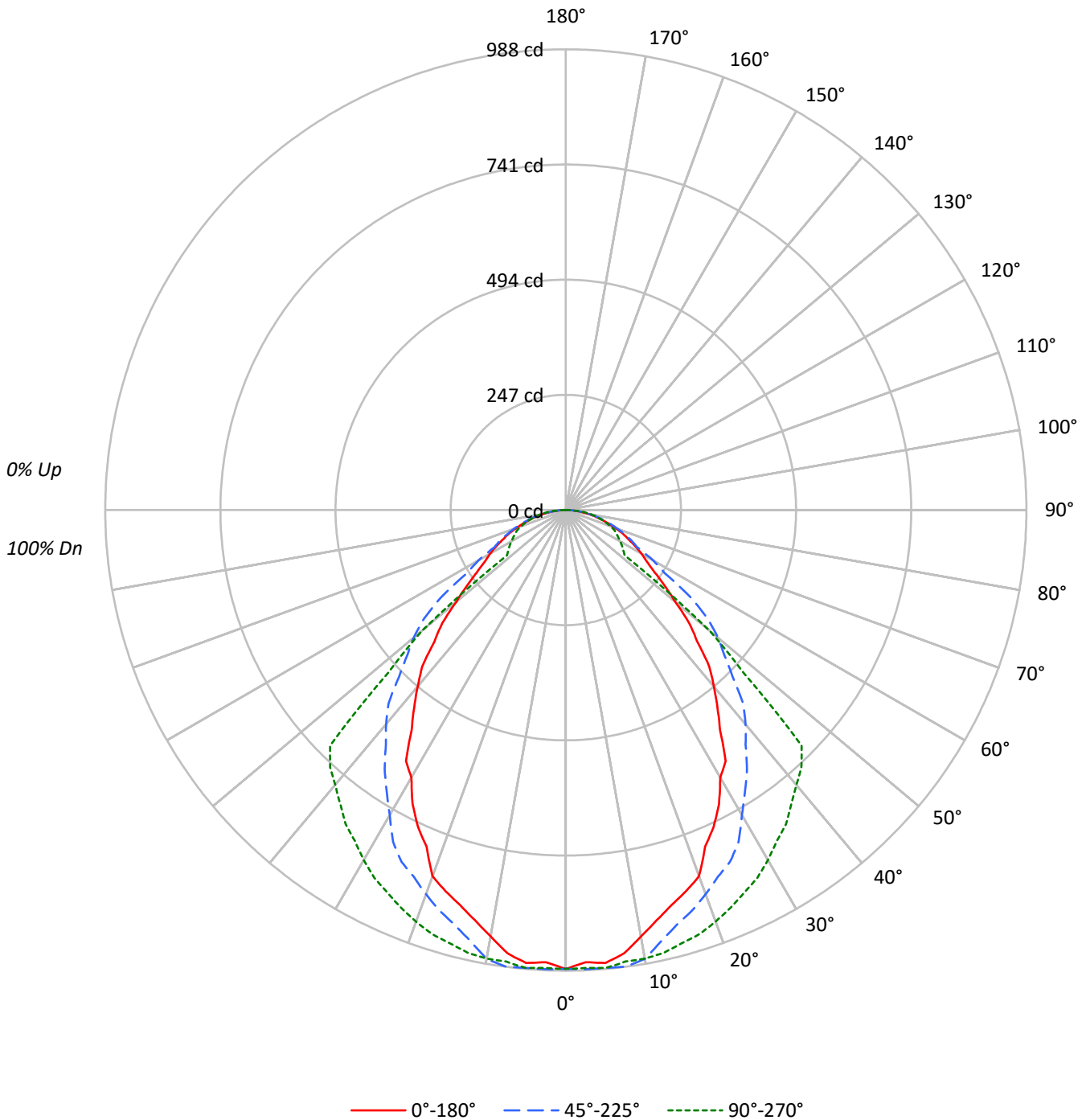
Test Method: LM-79-2019  
Report Number: P892535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-2SL-LVR-UNV-L840  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2053.0 lumens  
Efficiency: N/A  
Efficacy: 137.8 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°	14077	14077	14077
5°	14003	14156	14156
10°	13489	14204	14191
15°	12986	13634	14243
20°	12722	13348	14300
25°	11837	13148	14291
30°	10940	12475	14320
35°	10068	11832	14376
40°	9229	11199	14370
45°	8064	10235	14465
50°	6824	9487	8951
55°	5796	8158	3746
60°	5370	6189	3862
65°	4993	5264	4055
70°	4710	4973	4262
75°	4350	4693	4394
80°	3979	4342	4638
85°	3529	3956	4990

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 14465 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.3	4.5
10°-20°	261.2	12.7
20°-30°	379.7	18.5
30°-40°	429.9	20.9
40°-50°	401.6	19.6
50°-60°	228.2	11.1
60°-70°	143.4	7.0
70°-80°	88.0	4.3
80°-90°	27.6	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°	734.2	35.8
0°-40°	1164.2	56.7
0°-60°	1794.0	87.4
0°-90°	2053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2053.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	975	985	986	982	986	92
15°	877	892	921	971	962	248
25°	750	764	833	870	905	344
35°	576	615	678	766	823	363
45°	399	440	506	643	715	311
55°	232	254	327	172	150	213
65°	148	153	156	135	120	148
75°	79	81	85	87	80	84
85°	22	22	24	27	30	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	984.0	984.0	984.0	984.0	984.0
2.5°	970.6	981.3	985.8	984.9	983.1
5°	975.1	984.9	985.8	982.2	985.8
7.5°	959.0	982.2	987.6	978.7	976.9
10°	928.6	942.0	977.8	981.3	976.9
12.5°	900.9	917.0	946.5	981.3	972.4
15°	876.8	892.0	920.6	970.6	961.7
17.5°	857.1	862.5	900.9	959.0	953.6
20°	835.7	846.4	876.8	930.4	939.3
22.5°	781.1	810.6	851.8	905.4	923.3
25°	749.9	764.2	833.0	870.5	905.4
27.5°	711.4	737.4	802.6	843.7	889.3
30°	662.3	691.8	755.2	816.0	866.9
32.5°	638.1	648.9	715.0	793.7	841.9
35°	576.5	614.9	677.5	766.0	823.2
37.5°	534.5	557.7	633.7	739.1	794.6
40°	494.2	521.1	599.7	709.6	769.5
42.5°	455.8	479.9	563.1	680.1	748.1
45°	398.6	439.7	505.9	642.6	715.0
47.5°	359.3	385.2	461.2	597.0	518.4
50°	306.6	337.8	426.3	409.3	402.2
52.5°	268.1	285.1	384.3	345.9	159.1
55°	232.4	253.8	327.1	171.6	150.2
57.5°	205.6	219.9	251.1	159.1	143.0
60°	187.7	191.3	216.3	151.9	135.0
62.5°	168.0	171.6	172.5	143.9	126.9
65°	147.5	152.8	155.5	135.0	119.8
67.5°	132.3	133.2	136.7	125.1	112.6
70°	112.6	114.4	118.9	114.4	101.9
72.5°	95.6	98.3	101.0	101.9	91.2
75°	78.7	81.3	84.9	86.7	79.5
77.5°	64.4	65.2	68.8	73.3	67.9
80°	48.3	50.9	52.7	57.2	56.3
82.5°	34.9	35.8	38.4	42.0	43.8
85°	21.5	22.3	24.1	26.8	30.4
87.5°	8.9	9.8	10.7	12.5	14.3
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	16.91	18.39	17.27	18.70	19.01	14.65	16.13	15.02	16.44	16.76
	3H	18.49	19.82	18.87	20.15	20.51	16.99	18.31	17.36	18.64	19.00
	4H	19.10	20.34	19.50	20.68	21.06	17.93	19.17	18.33	19.52	19.90
	6H	19.56	20.70	19.97	21.07	21.46	18.72	19.87	19.13	20.23	20.62
	8H	19.71	20.80	20.14	21.19	21.59	19.03	20.12	19.46	20.51	20.91
	12H	19.81	20.85	20.24	21.23	21.66	19.28	20.32	19.71	20.70	21.13
4H	2H	17.48	18.72	17.88	19.07	19.45	15.81	17.05	16.21	17.40	17.78
	3H	19.30	20.32	19.71	20.72	21.13	18.25	19.27	18.66	19.67	20.08
	4H	20.03	20.95	20.46	21.37	21.81	19.30	20.22	19.73	20.63	21.07
	6H	20.62	21.43	21.08	21.87	22.33	20.19	20.99	20.65	21.44	21.90
	8H	20.82	21.57	21.29	22.02	22.48	20.53	21.29	21.00	21.73	22.20
	12H	20.96	21.63	21.45	22.11	22.58	20.82	21.49	21.30	21.97	22.44
8H	4H	20.34	21.09	20.80	21.53	22.00	19.70	20.45	20.16	20.89	21.36
	6H	21.06	21.68	21.56	22.17	22.65	20.74	21.36	21.24	21.85	22.33
	8H	21.33	21.89	21.85	22.40	22.89	21.18	21.74	21.69	22.25	22.74
	12H	21.55	22.05	22.06	22.54	23.11	21.56	22.06	22.07	22.55	23.12
12H	4H	20.37	21.04	20.85	21.52	21.99	19.74	20.41	20.22	20.88	21.36
	6H	21.12	21.68	21.64	22.19	22.68	20.81	21.37	21.32	21.88	22.37
	8H	21.46	21.95	21.97	22.45	23.01	21.31	21.81	21.82	22.30	22.87