

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: P892489

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-2SL-AOL-UNV-L930
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 9
3000K CCT
Light Source: -
Ballast/Driver: -

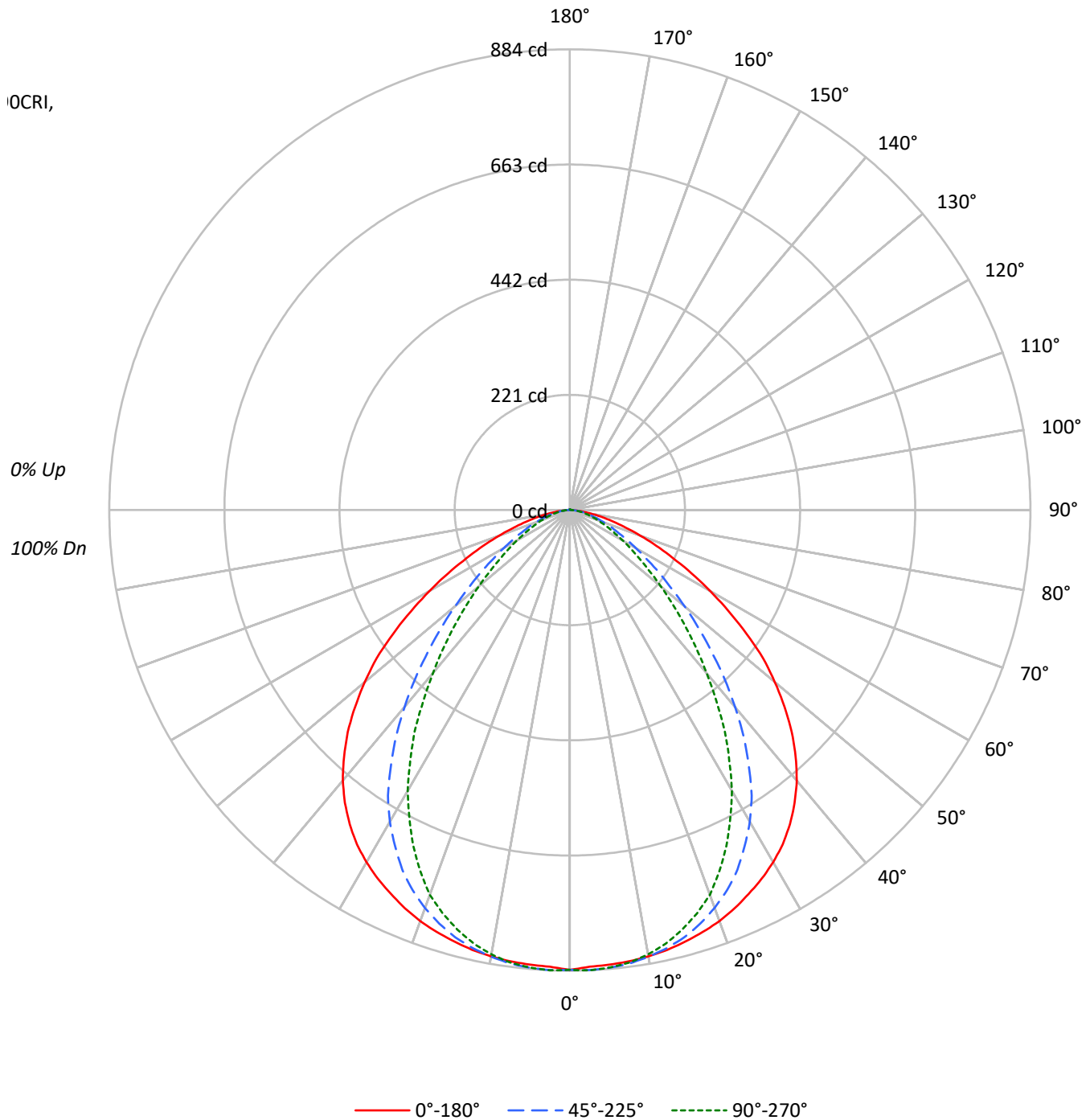
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1799.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.08 / 1.18
Luminous Opening: Rectangular (W 0.27' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
Input Voltage (V): 120
Input Current (Ain): 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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	68	68	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	60	60	60	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	53	53	53	52
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	48	48	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	43	43	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	39	39	39	37
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	36	36	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	33	33	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18068	18068	18068
5°	18002	18125	18113
10°	18087	18098	18000
15°	18174	17998	17669
20°	18291	17707	17121
25°	18359	17200	16068
30°	18452	16336	14714
35°	18403	14973	12974
40°	18115	13189	10909
45°	17450	11143	9000
50°	16364	9162	7260
55°	14780	7433	5837
60°	12728	5987	4837
65°	10582	4942	4017
70°	8681	4143	3431
75°	6891	3536	2975
80°	5200	3031	2677
85°	3501	2796	2514

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17450 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	4.7
10°-20°	238.8	13.3
20°-30°	349.8	19.4
30°-40°	381.7	21.2
40°-50°	323.6	18.0
50°-60°	220.0	12.2
60°-70°	124.3	6.9
70°-80°	56.7	3.2
80°-90°	14.8	0.8
90°-100°	1.9	0.1
100°-110°	1.1	0.1
110°-120°	0.6	0.0
120°-130°	0.5	0.0
130°-140°	0.5	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	672.3	37.4
0°-40°	1054.0	58.6
0°-60°	1597.6	88.8
0°-90°	1793.4	99.7
90°-120°	3.7	0.2
90°-150°	5.1	0.3
90°-180°	6.0	0.3
0°-180°	1799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	876	881	882	884	881	83
15°	857	857	849	839	834	242
25°	813	799	761	727	711	375
35°	736	689	599	536	519	460
45°	603	509	385	327	311	463
55°	414	306	208	173	164	370
65°	218	155	102	87	83	220
75°	87	64	45	39	38	94
85°	15	14	12	11	11	18
90°	0	2	2	3	3	1
95°	0	1	2	3	3	0
105°	0	1	1	2	2	0
115°	0	0	1	1	1	0
125°	0	0	1	1	1	0
135°	1	1	1	1	1	0
145°	1	1	1	1	1	0
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.4	882.4	882.4	882.4	882.4
2.5°	877.0	881.8	883.6	886.0	884.2
5°	875.8	880.6	881.8	883.6	881.2
7.5°	873.4	877.6	877.6	877.6	875.8
10°	869.9	872.8	870.4	868.1	865.7
12.5°	864.5	865.7	860.9	856.7	852.0
15°	857.3	856.7	849.0	839.4	833.5
17.5°	849.0	846.6	832.3	819.7	811.4
20°	839.4	833.5	812.6	792.9	785.7
22.5°	826.9	818.5	789.3	761.9	749.9
25°	812.6	798.9	761.3	726.7	711.2
27.5°	797.7	777.4	726.7	683.7	667.0
30°	780.4	752.3	690.9	641.4	622.3
32.5°	760.7	724.9	649.7	590.0	569.8
35°	736.2	689.1	599.0	536.3	519.0
37.5°	708.8	650.9	547.7	482.7	461.8
40°	677.7	607.3	493.4	428.4	408.1
42.5°	641.4	560.8	439.7	376.5	359.2
45°	602.6	508.9	384.8	326.9	310.8
47.5°	559.0	457.6	334.7	279.8	267.3
50°	513.7	406.3	287.6	240.4	227.9
52.5°	467.7	355.0	244.0	204.0	193.3
55°	414.0	306.1	208.2	173.0	163.5
57.5°	361.5	262.5	174.2	145.0	139.0
60°	310.8	220.7	146.2	122.3	118.1
62.5°	263.7	184.9	122.9	103.2	97.8
65°	218.4	155.1	102.0	87.1	82.9
67.5°	179.6	126.5	85.3	72.2	68.6
70°	145.0	102.0	69.2	59.1	57.3
72.5°	112.8	81.7	56.7	48.9	47.1
75°	87.1	63.8	44.7	39.4	37.6
77.5°	63.8	47.7	34.6	30.4	29.2
80°	44.1	34.0	25.7	23.3	22.7
82.5°	28.0	22.1	18.5	16.7	16.7
85°	14.9	13.7	11.9	11.3	10.7
87.5°	6.0	6.6	6.6	6.6	6.0
90°	0.0	1.8	2.4	3.0	3.0
92.5°	0.0	1.2	2.4	3.0	3.0
95°	0.0	0.6	1.8	3.0	3.0
97.5°	0.0	0.6	1.8	2.4	2.4
100°	0.0	0.6	1.2	2.4	2.4
102.5°	0.0	0.6	1.2	1.8	2.4
105°	0.0	0.6	1.2	1.8	1.8
107.5°	0.0	0.0	1.2	1.8	1.8
110°	0.0	0.0	0.6	1.2	1.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.6	1.2	1.8
115°	0.0	0.0	0.6	1.2	1.2
117.5°	0.0	0.0	0.6	1.2	1.2
120°	0.0	0.0	0.6	1.2	1.2
122.5°	0.0	0.0	0.6	1.2	1.2
125°	0.0	0.0	0.6	1.2	1.2
127.5°	0.0	0.6	0.6	0.6	1.2
130°	0.0	0.6	0.6	0.6	1.2
132.5°	0.6	0.6	0.6	0.6	0.6
135°	0.6	0.6	0.6	0.6	0.6
137.5°	0.6	0.6	0.6	0.6	0.6
140°	0.6	0.6	0.6	0.6	0.6
142.5°	0.6	0.6	0.6	0.6	0.6
145°	0.6	0.6	0.6	0.6	0.6
147.5°	0.6	0.6	0.6	0.6	0.6
150°	0.6	0.6	0.6	0.6	0.6
152.5°	0.6	0.6	0.6	0.6	0.6
155°	0.6	0.6	0.6	0.6	0.6
157.5°	0.6	0.6	0.6	0.6	0.6
160°	0.6	0.6	0.6	0.6	1.2
162.5°	0.6	0.6	0.6	1.2	1.2
165°	0.6	0.6	0.6	1.2	1.2
167.5°	0.6	0.6	0.6	1.2	1.2
170°	0.6	0.6	0.6	1.2	1.2
172.5°	0.6	0.6	0.6	1.2	1.2
175°	0.6	0.6	1.2	1.2	1.2
177.5°	0.6	0.6	1.2	1.2	1.2
180°	1.2	1.2	1.2	1.2	1.2



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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	20.39	21.83	20.76	22.15	22.48	15.75	17.20	16.12	17.52	17.84
	3H	21.64	22.93	22.03	23.27	23.64	16.79	18.08	17.18	18.42	18.79
	4H	22.04	23.25	22.45	23.60	23.99	17.16	18.37	17.57	18.72	19.11
	6H	22.28	23.39	22.70	23.76	24.17	17.42	18.53	17.84	18.91	19.31
	8H	22.33	23.39	22.77	23.79	24.20	17.52	18.57	17.95	18.97	19.38
	12H	22.35	23.36	22.79	23.75	24.19	17.58	18.59	18.02	18.98	19.41
4H	2H	20.40	21.61	20.81	21.96	22.35	16.33	17.53	16.73	17.89	18.28
	3H	21.81	22.80	22.23	23.21	23.62	17.55	18.55	17.97	18.95	19.36
	4H	22.31	23.19	22.74	23.62	24.07	18.01	18.90	18.45	19.33	19.77
	6H	22.65	23.42	23.11	23.87	24.34	18.37	19.14	18.84	19.59	20.06
	8H	22.73	23.45	23.20	23.90	24.38	18.49	19.21	18.97	19.67	20.14
	12H	22.78	23.42	23.27	23.91	24.39	18.59	19.23	19.08	19.72	20.20
8H	4H	22.30	23.02	22.77	23.47	23.94	18.30	19.02	18.78	19.48	19.95
	6H	22.69	23.28	23.19	23.78	24.27	18.75	19.34	19.25	19.84	20.33
	8H	22.81	23.34	23.33	23.86	24.36	18.93	19.46	19.45	19.98	20.48
	12H	22.90	23.37	23.42	23.87	24.45	19.09	19.56	19.61	20.06	20.64
12H	4H	22.27	22.91	22.76	23.40	23.88	18.34	18.98	18.82	19.46	19.94
	6H	22.66	23.19	23.18	23.71	24.21	18.80	19.33	19.32	19.85	20.35
	8H	22.81	23.29	23.33	23.78	24.36	19.03	19.50	19.55	20.00	20.57