

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: P895764

Luminaire Tested: 2MB-2SL-ACL-UNV-L950

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-2SL-ACL-UNV-L950
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 5000K (C)
Light Source: -
Ballast/Driver: -

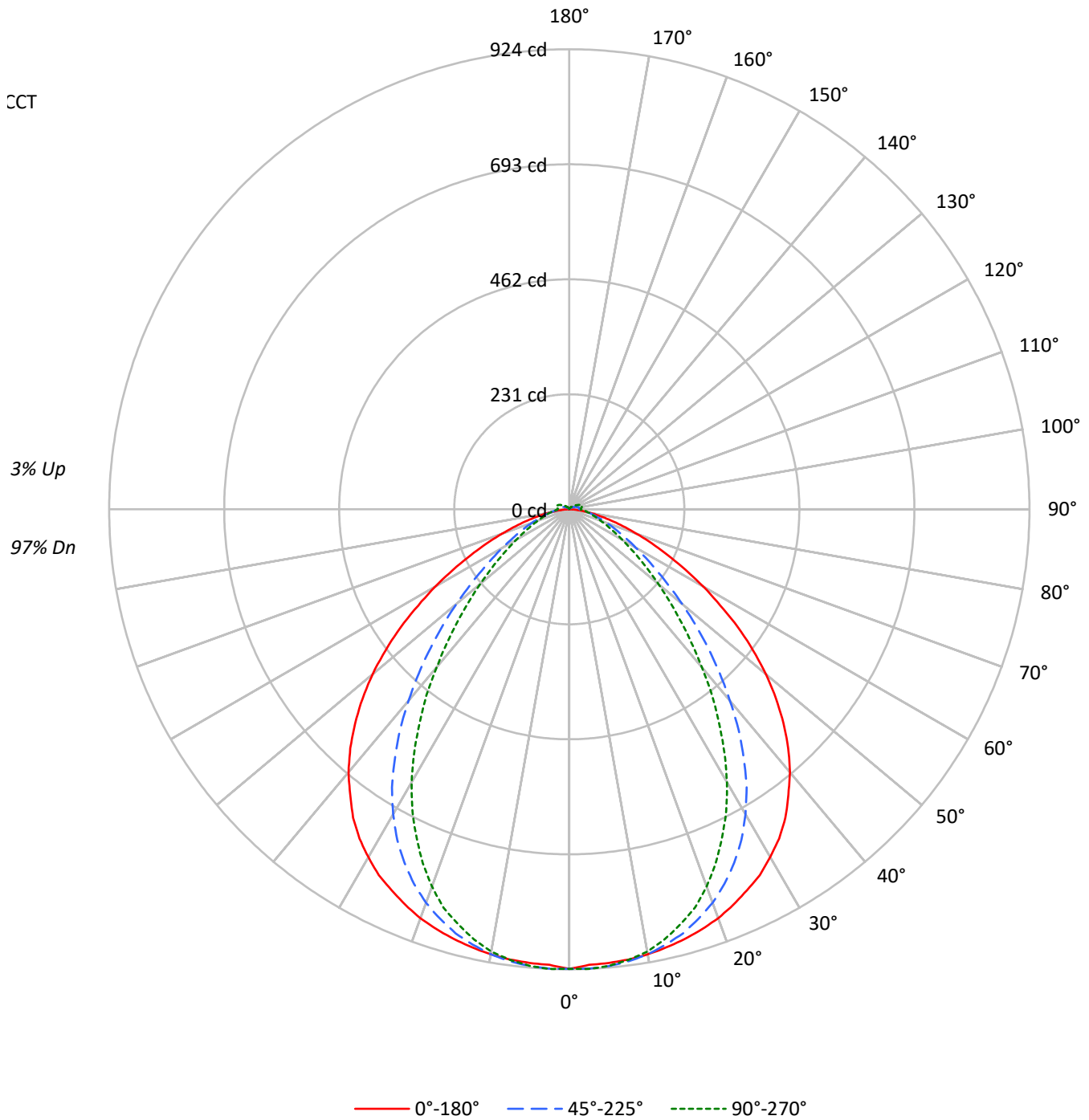
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1923.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.07 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.08')
CIE Type: Direct

Input Watts (W): 14.9
Input Voltage (V): 120
Input Current (A_{in}): 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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	110	105	102	98	107	103	100	97	98	96	93	94	92	90	90	88	87	87	87	87	84
2	101	94	88	83	98	92	86	82	88	83	80	84	81	77	81	78	75	75	75	75	73
3	93	84	77	71	91	82	76	70	79	73	69	76	71	67	73	69	66	66	66	66	64
4	86	76	68	62	84	74	67	61	71	65	60	69	63	59	66	62	58	58	58	58	56
5	80	68	60	54	78	67	60	54	65	58	53	63	57	52	61	56	52	52	52	52	50
6	74	62	54	48	72	61	54	48	59	52	47	57	51	47	56	50	46	46	46	46	44
7	69	57	49	43	68	56	49	43	54	48	43	53	47	42	51	46	42	42	42	42	40
8	65	52	45	39	63	52	44	39	50	43	39	49	43	38	47	42	38	38	38	38	36
9	61	48	41	36	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	38	33	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18898	18898	18898
5°	18730	18523	18411
10°	18734	18072	17772
15°	18734	17511	16869
20°	18758	16791	15768
25°	18706	15840	14316
30°	18624	14601	12672
35°	18374	12982	10738
40°	17802	11074	8752
45°	16904	9114	6935
50°	15643	7245	5412
55°	13928	5631	4192
60°	11863	4396	3283
65°	9697	3494	2610
70°	7690	2829	2142
75°	5942	2306	1874
80°	4227	1944	1698
85°	2411	1692	1527

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16904 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	4.5
10°-20°	248.0	12.9
20°-30°	360.5	18.7
30°-40°	389.7	20.3
40°-50°	328.7	17.1
50°-60°	225.2	11.7
60°-70°	131.3	6.8
70°-80°	67.1	3.5
80°-90°	28.9	1.5
90°-100°	17.5	0.9
100°-110°	15.7	0.8
110°-120°	10.7	0.6
120°-130°	5.9	0.3
130°-140°	3.3	0.2
140°-150°	1.7	0.1
150°-160°	0.9	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	695.9	36.2
0°-40°	1085.6	56.5
0°-60°	1639.5	85.3
0°-90°	1866.8	97.1
90°-120°	43.9	2.3
90°-150°	54.8	2.9
90°-180°	56.0	2.9
0°-180°	1923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	915	920	921	923	920	87
15°	894	893	882	871	863	253
25°	844	828	783	745	726	389
35°	757	708	611	546	524	471
45°	608	514	394	333	315	468
55°	414	313	214	180	170	369
65°	218	160	111	94	90	219
75°	87	71	56	53	51	94
85°	15	21	28	30	30	19
90°	1	10	20	23	23	1
95°	0	9	20	24	24	0
105°	0	5	17	25	26	0
115°	0	3	11	18	21	0
125°	0	2	6	11	13	0
135°	1	2	4	6	8	0
145°	1	1	3	4	4	0
155°	1	1	2	2	3	0
165°	1	1	1	2	2	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°	922.9	922.9	922.9	922.9	922.9
2.5°	915.9	921.6	923.5	926.1	924.2
5°	914.6	920.3	921.0	922.9	920.3
7.5°	912.1	916.5	915.3	915.3	912.7
10°	907.7	910.2	907.7	904.5	902.0
12.5°	901.3	903.2	895.6	891.2	884.8
15°	893.7	893.1	881.7	870.9	862.6
17.5°	884.8	880.4	862.6	846.1	839.2
20°	874.0	865.8	841.1	817.0	806.2
22.5°	860.1	848.7	814.4	783.3	768.8
25°	844.2	827.7	783.3	744.7	726.3
27.5°	828.4	803.6	748.5	700.3	682.5
30°	806.8	775.7	707.2	652.7	633.0
32.5°	784.0	744.7	662.8	599.4	579.7
35°	756.7	707.9	610.8	545.5	523.9
37.5°	722.5	664.7	558.2	489.7	471.3
40°	689.5	617.8	501.7	433.9	413.6
42.5°	650.8	567.1	447.2	381.2	362.8
45°	608.3	514.4	393.9	333.0	314.6
47.5°	563.2	464.3	343.1	286.7	272.1
50°	515.7	412.9	295.6	246.7	233.4
52.5°	464.9	361.5	251.8	211.2	199.2
55°	413.6	313.3	214.4	179.5	170.0
57.5°	359.6	267.0	182.7	152.9	144.0
60°	310.8	228.3	154.1	130.7	123.7
62.5°	262.6	192.8	131.3	111.0	105.3
65°	218.2	160.5	111.0	94.5	90.1
67.5°	179.5	134.5	95.1	81.2	78.0
70°	143.3	109.7	79.9	69.8	66.6
72.5°	112.9	88.8	67.2	60.3	58.4
75°	86.9	71.0	56.5	52.6	51.4
77.5°	63.4	54.5	47.6	45.7	45.0
80°	44.4	41.2	40.0	40.0	40.0
82.5°	27.9	30.4	33.6	34.9	34.9
85°	15.2	20.9	27.9	29.8	29.8
87.5°	6.3	14.6	23.5	25.4	24.7
90°	0.6	9.5	20.3	22.8	22.8
92.5°	0.0	9.5	20.3	22.8	22.8
95°	0.0	8.9	19.7	23.5	24.1
97.5°	0.0	8.2	19.7	24.1	24.7
100°	0.6	7.6	19.7	24.7	25.4
102.5°	0.0	6.3	18.4	24.7	26.0
105°	0.0	5.1	17.1	24.7	26.0
107.5°	0.0	3.8	15.9	23.5	25.4
110°	0.0	3.8	14.6	22.2	24.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.2	12.7	20.3	22.8
115°	0.0	3.2	10.8	18.4	20.9
117.5°	0.0	2.5	9.5	16.5	18.4
120°	0.0	2.5	8.2	14.6	16.5
122.5°	0.0	2.5	7.6	12.7	14.6
125°	0.0	1.9	6.3	10.8	12.7
127.5°	0.6	1.9	5.7	9.5	11.4
130°	0.6	1.9	5.1	8.2	10.1
132.5°	0.6	1.9	4.4	7.6	8.9
135°	0.6	1.9	4.4	6.3	7.6
137.5°	0.6	1.9	3.8	5.7	6.3
140°	0.6	1.9	3.2	5.1	5.7
142.5°	0.6	1.3	3.2	4.4	5.1
145°	0.6	1.3	3.2	3.8	4.4
147.5°	0.6	1.3	2.5	3.8	3.8
150°	0.6	1.3	2.5	3.2	3.8
152.5°	0.6	1.3	1.9	3.2	3.2
155°	0.6	1.3	1.9	2.5	3.2
157.5°	0.6	1.3	1.9	2.5	2.5
160°	0.6	1.3	1.3	1.9	2.5
162.5°	0.6	0.6	1.3	1.9	1.9
165°	0.6	0.6	1.3	1.9	1.9
167.5°	0.6	0.6	1.3	1.3	1.9
170°	0.6	0.6	1.3	1.3	1.3
172.5°	0.6	0.6	1.3	1.3	0.6
175°	0.6	0.6	1.3	1.3	0.6
177.5°	0.6	0.6	1.3	0.6	0.6
180°	0.6	0.6	0.6	0.6	0.6



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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	18.74	20.14	19.16	20.52	20.91	15.07	16.47	15.48	16.85	17.24
	3H	19.81	21.06	20.24	21.45	21.89	16.25	17.50	16.68	17.89	18.33
	4H	20.10	21.27	20.55	21.68	22.14	16.77	17.95	17.22	18.36	18.81
	6H	20.24	21.32	20.70	21.75	22.21	17.31	18.39	17.78	18.82	19.29
	8H	20.25	21.28	20.72	21.73	22.20	17.59	18.62	18.07	19.07	19.54
	12H	20.24	21.22	20.72	21.66	22.16	17.88	18.87	18.36	19.31	19.81
4H	2H	18.77	19.95	19.22	20.36	20.81	15.53	16.70	15.98	17.11	17.56
	3H	20.00	20.97	20.46	21.43	21.90	16.89	17.86	17.35	18.32	18.79
	4H	20.38	21.25	20.86	21.72	22.23	17.52	18.39	18.00	18.87	19.38
	6H	20.60	21.35	21.10	21.85	22.38	18.19	18.95	18.70	19.45	19.98
	8H	20.63	21.34	21.14	21.84	22.37	18.54	19.25	19.05	19.75	20.28
	12H	20.63	21.27	21.16	21.80	22.34	18.91	19.55	19.45	20.08	20.62
8H	4H	20.40	21.11	20.91	21.60	22.14	17.74	18.45	18.25	18.95	19.48
	6H	20.67	21.26	21.22	21.80	22.35	18.52	19.11	19.07	19.66	20.20
	8H	20.74	21.27	21.30	21.83	22.38	18.96	19.49	19.52	20.05	20.61
	12H	20.77	21.24	21.33	21.79	22.42	19.46	19.93	20.02	20.48	21.11
12H	4H	20.38	21.02	20.91	21.55	22.09	17.75	18.38	18.28	18.91	19.45
	6H	20.66	21.19	21.23	21.75	22.31	18.55	19.08	19.12	19.65	20.20
	8H	20.77	21.24	21.33	21.78	22.41	19.05	19.52	19.61	20.06	20.70