

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: P895763

Luminaire Tested: 2MB-2SL-ACL-UNV-L940

Issue Date: 11/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P895763  
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-L940  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 4000K (C)  
Light Source: -  
Ballast/Driver: -

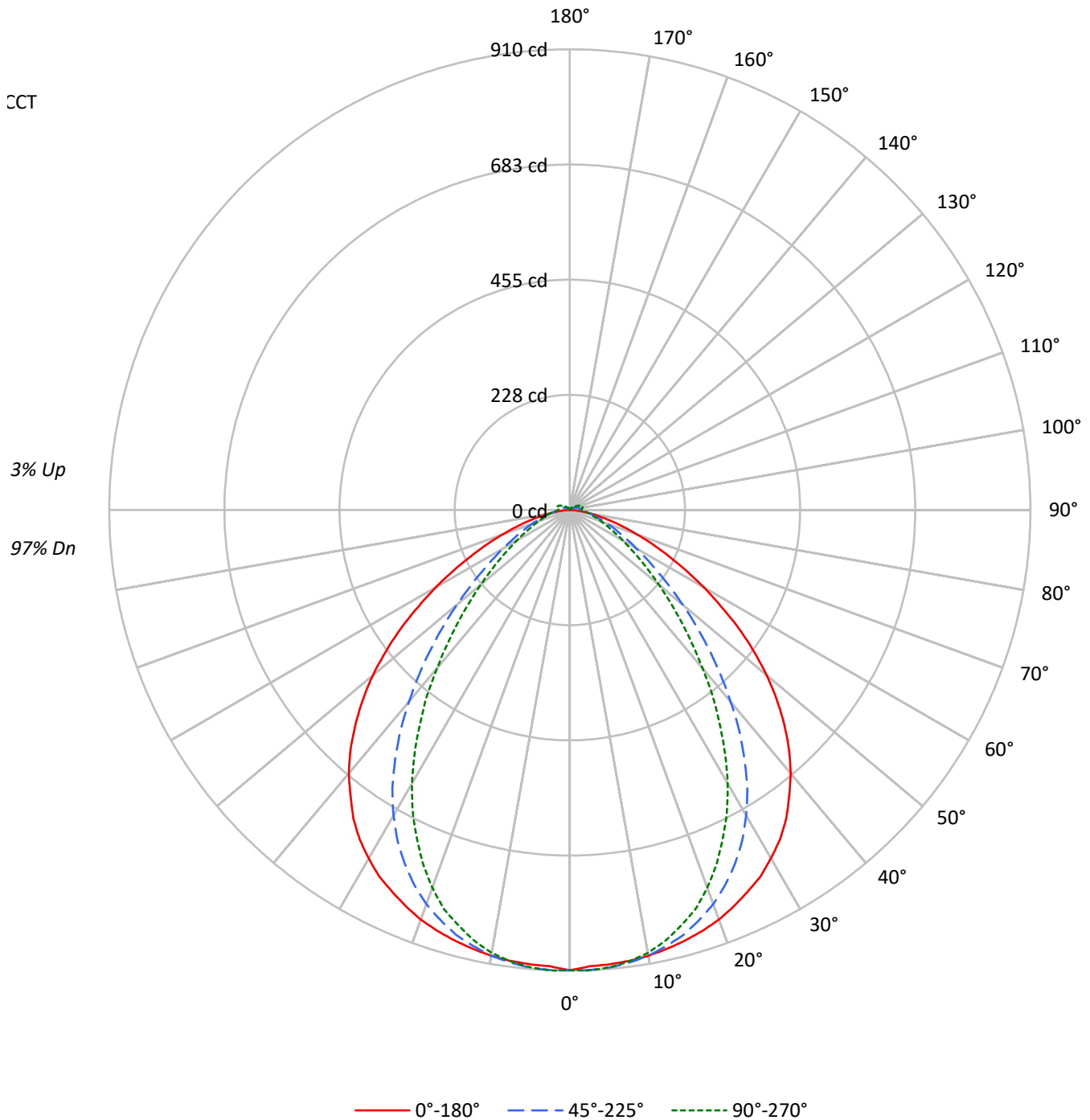
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1894.0 lumens  
Efficiency: N/A  
Efficacy: 127.1 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<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	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°	18613	18613	18613
5°	18448	18244	18135
10°	18451	17799	17504
15°	18451	17247	16614
20°	18476	16537	15529
25°	18425	15601	14099
30°	18342	14382	12482
35°	18097	12786	10576
40°	17533	10908	8619
45°	16648	8978	6832
50°	15407	7135	5331
55°	13716	5547	4128
60°	11684	4330	3232
65°	9550	3440	2570
70°	7577	2786	2110
75°	5853	2269	1844
80°	4160	1915	1672
85°	2379	1667	1507

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16648 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.1	4.5
10°-20°	244.3	12.9
20°-30°	355.0	18.7
30°-40°	383.8	20.3
40°-50°	323.8	17.1
50°-60°	221.8	11.7
60°-70°	129.3	6.8
70°-80°	66.1	3.5
80°-90°	28.5	1.5
90°-100°	17.3	0.9
100°-110°	15.4	0.8
110°-120°	10.5	0.6
120°-130°	5.9	0.3
130°-140°	3.2	0.2
140°-150°	1.7	0.1
150°-160°	0.9	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	685.4	36.2
0°-40°	1069.2	56.5
0°-60°	1614.8	85.3
0°-90°	1838.7	97.1
90°-120°	43.2	2.3
90°-150°	54.0	2.9
90°-180°	55.0	2.9
0°-180°	1894.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	901	906	907	909	906	86
15°	880	880	868	858	850	249
25°	832	815	772	733	715	384
35°	745	697	602	537	516	464
45°	599	507	388	328	310	461
55°	407	309	211	177	167	363
65°	215	158	109	93	89	216
75°	86	70	56	52	51	93
85°	15	21	28	29	29	18
90°	1	9	20	22	22	1
95°	0	9	19	23	24	0
105°	0	5	17	24	26	0
115°	0	3	11	18	21	0
125°	0	2	6	11	12	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°	909.0	909.0	909.0	909.0	909.0
2.5°	902.1	907.7	909.6	912.1	910.2
5°	900.8	906.5	907.1	909.0	906.5
7.5°	898.3	902.7	901.5	901.5	899.0
10°	894.0	896.5	894.0	890.8	888.4
12.5°	887.7	889.6	882.1	877.7	871.5
15°	880.2	879.6	868.4	857.7	849.6
17.5°	871.5	867.1	849.6	833.4	826.5
20°	860.9	852.7	828.4	804.6	794.0
22.5°	847.1	835.9	802.1	771.5	757.2
25°	831.5	815.3	771.5	733.4	715.3
27.5°	815.9	791.5	737.2	689.7	672.2
30°	794.6	764.0	696.6	642.8	623.5
32.5°	772.2	733.4	652.8	590.4	571.0
35°	745.3	697.2	601.6	537.3	516.0
37.5°	711.6	654.7	549.8	482.3	464.2
40°	679.1	608.5	494.2	427.3	407.3
42.5°	641.0	558.5	440.4	375.5	357.3
45°	599.1	506.6	388.0	328.0	309.9
47.5°	554.8	457.3	338.0	282.4	268.0
50°	507.9	406.7	291.1	243.0	229.9
52.5°	457.9	356.1	248.0	208.0	196.2
55°	407.3	308.6	211.2	176.8	167.4
57.5°	354.2	263.0	179.9	150.6	141.8
60°	306.1	224.9	151.8	128.7	121.8
62.5°	258.6	189.9	129.3	109.3	103.7
65°	214.9	158.1	109.3	93.1	88.7
67.5°	176.8	132.4	93.7	80.0	76.8
70°	141.2	108.1	78.7	68.7	65.6
72.5°	111.2	87.5	66.2	59.3	57.5
75°	85.6	70.0	55.6	51.9	50.6
77.5°	62.5	53.7	46.9	45.0	44.4
80°	43.7	40.6	39.4	39.4	39.4
82.5°	27.5	30.0	33.1	34.4	34.4
85°	15.0	20.6	27.5	29.4	29.4
87.5°	6.2	14.4	23.1	25.0	24.4
90°	0.6	9.4	20.0	22.5	22.5
92.5°	0.0	9.4	20.0	22.5	22.5
95°	0.0	8.7	19.4	23.1	23.7
97.5°	0.0	8.1	19.4	23.7	24.4
100°	0.6	7.5	19.4	24.4	25.0
102.5°	0.0	6.2	18.1	24.4	25.6
105°	0.0	5.0	16.9	24.4	25.6
107.5°	0.0	3.7	15.6	23.1	25.0
110°	0.0	3.7	14.4	21.9	23.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.1	12.5	20.0	22.5
115°	0.0	3.1	10.6	18.1	20.6
117.5°	0.0	2.5	9.4	16.2	18.1
120°	0.0	2.5	8.1	14.4	16.2
122.5°	0.0	2.5	7.5	12.5	14.4
125°	0.0	1.9	6.2	10.6	12.5
127.5°	0.6	1.9	5.6	9.4	11.2
130°	0.6	1.9	5.0	8.1	10.0
132.5°	0.6	1.9	4.4	7.5	8.7
135°	0.6	1.9	4.4	6.2	7.5
137.5°	0.6	1.9	3.7	5.6	6.2
140°	0.6	1.9	3.1	5.0	5.6
142.5°	0.6	1.2	3.1	4.4	5.0
145°	0.6	1.2	3.1	3.7	4.4
147.5°	0.6	1.2	2.5	3.7	3.7
150°	0.6	1.2	2.5	3.1	3.7
152.5°	0.6	1.2	1.9	3.1	3.1
155°	0.6	1.2	1.9	2.5	3.1
157.5°	0.6	1.2	1.9	2.5	2.5
160°	0.6	1.2	1.2	1.9	2.5
162.5°	0.6	0.6	1.2	1.9	1.9
165°	0.6	0.6	1.2	1.9	1.9
167.5°	0.6	0.6	1.2	1.2	1.9
170°	0.6	0.6	1.2	1.2	1.2
172.5°	0.6	0.6	1.2	1.2	0.6
175°	0.6	0.6	1.2	1.2	0.6
177.5°	0.6	0.6	1.2	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	18.69	20.09	19.10	20.47	20.86	15.02	16.42	15.43	16.79	17.18
	3H	19.76	21.01	20.19	21.40	21.84	16.20	17.45	16.62	17.84	18.27
	4H	20.05	21.22	20.50	21.63	22.08	16.72	17.89	17.17	18.30	18.76
	6H	20.18	21.27	20.65	21.69	22.16	17.26	18.34	17.72	18.77	19.23
	8H	20.20	21.23	20.67	21.67	22.15	17.54	18.57	18.01	19.02	19.49
	12H	20.18	21.17	20.66	21.61	22.11	17.83	18.82	18.31	19.26	19.76
4H	2H	18.72	19.89	19.17	20.31	20.76	15.47	16.65	15.92	17.06	17.51
	3H	19.95	20.92	20.41	21.38	21.85	16.84	17.81	17.30	18.27	18.74
	4H	20.32	21.20	20.81	21.67	22.18	17.47	18.34	17.95	18.81	19.32
	6H	20.54	21.30	21.05	21.80	22.33	18.14	18.90	18.65	19.40	19.93
	8H	20.58	21.29	21.09	21.79	22.32	18.48	19.19	19.00	19.69	20.23
	12H	20.58	21.22	21.11	21.75	22.29	18.86	19.50	19.40	20.03	20.57
8H	4H	20.34	21.05	20.86	21.55	22.09	17.68	18.39	18.20	18.89	19.43
	6H	20.62	21.21	21.16	21.75	22.30	18.47	19.06	19.02	19.60	20.15
	8H	20.69	21.21	21.25	21.78	22.33	18.91	19.44	19.47	20.00	20.56
	12H	20.72	21.19	21.28	21.74	22.37	19.41	19.88	19.97	20.43	21.06
12H	4H	20.33	20.96	20.86	21.50	22.04	17.69	18.33	18.22	18.86	19.40
	6H	20.61	21.14	21.18	21.70	22.26	18.50	19.03	19.07	19.59	20.15
	8H	20.72	21.19	21.28	21.73	22.36	19.00	19.47	19.56	20.01	20.64