

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: P892473

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

Issue Date: 11/11/2024

**Test Information**

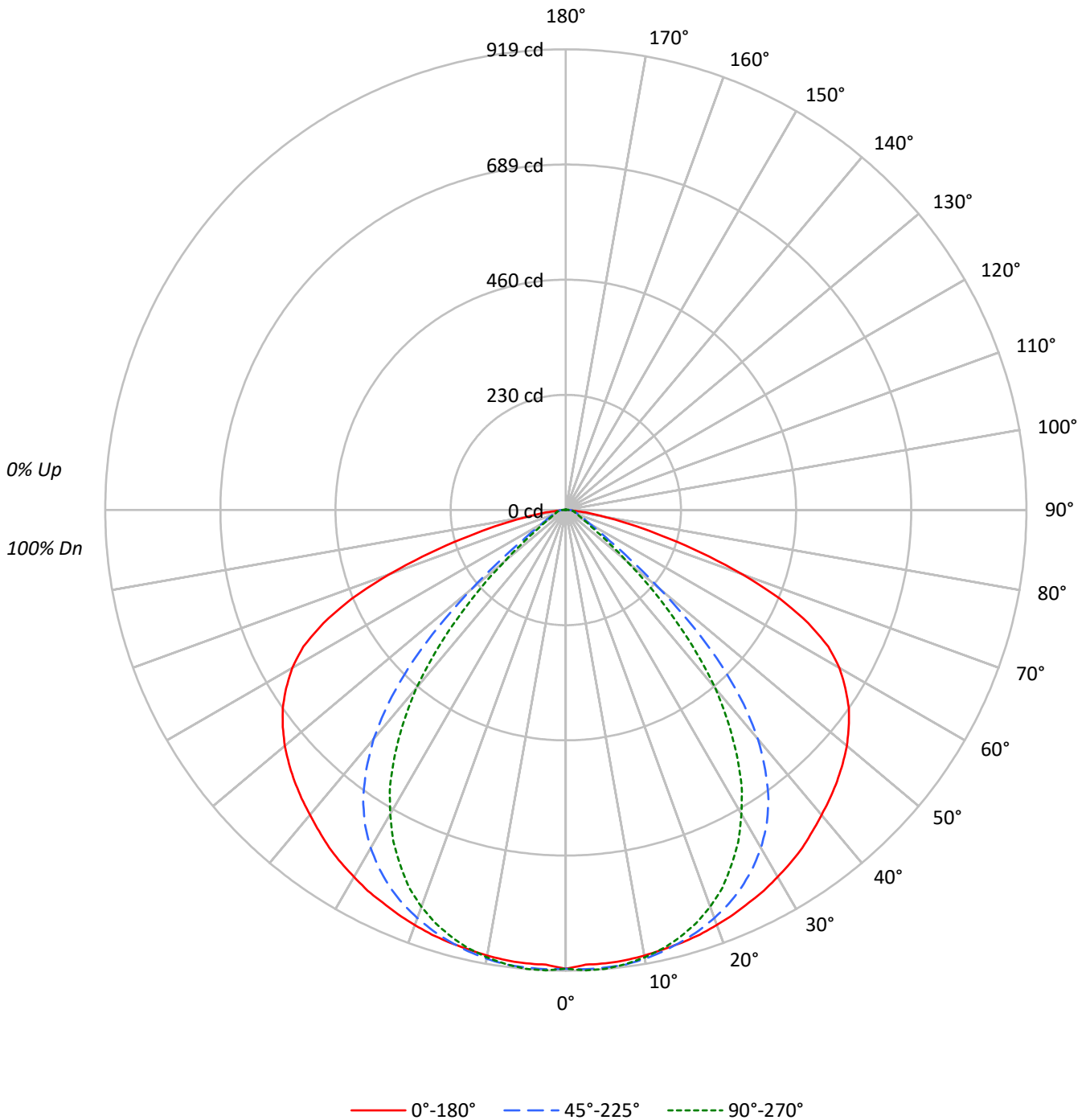
Test Method: LM-79-2019  
Report Number: P892473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-2SL-A-UNV-L930  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1919.0 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Spacing Criteria (0/90/45): 1.39 / 1.15 / 1.25  
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	105	101	99	100	98	95	97	94	93	93	91	90	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	84	81	79	77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	76	72	69	76	72	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	70	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	59	55	63	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	46	40	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	33	43	37	33	43	37	33	32

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	18736	18736	18736
5°	18660	18832	18882
10°	18765	18900	18840
15°	18941	18903	18689
20°	19198	18873	18352
25°	19527	18759	17654
30°	19984	18405	16558
35°	20563	17623	14836
40°	21221	15945	12405
45°	22162	12782	8844
50°	23315	7773	5075
55°	24615	3748	2727
60°	25821	2297	1855
65°	25868	1851	1531
70°	22391	1676	1431
75°	15760	1701	1559
80°	9280	2040	1969
85°	4346	3078	2937

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 62.5°  
 Luminance: 26186 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.2	4.5
10°-20°	251.6	13.1
20°-30°	380.8	19.8
30°-40°	439.7	22.9
40°-50°	376.1	19.6
50°-60°	205.4	10.7
60°-70°	103.8	5.4
70°-80°	50.4	2.6
80°-90°	17.3	0.9
90°-100°	4.2	0.2
100°-110°	0.7	0.0
110°-120°	0.3	0.0
120°-130°	0.2	0.0
130°-140°	0.4	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	719.5	37.5
0°-40°	1159.3	60.4
0°-60°	1740.7	90.7
0°-90°	1912.2	99.6
90°-120°	5.1	0.3
90°-150°	6.2	0.3
90°-180°	7.0	0.4
0°-180°	1919.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	908	915	916	920	919	87
15°	894	899	892	888	882	253
25°	864	860	830	798	781	400
35°	823	794	705	623	594	515
45°	765	668	441	328	305	591
55°	690	317	105	82	76	615
65°	534	59	38	34	32	517
75°	199	33	22	21	20	221
85°	18	18	13	13	12	28
90°	0	11	8	8	8	1
95°	0	1	4	5	5	0
105°	0	0	1	1	1	0
115°	0	0	0	1	1	0
125°	0	0	1	1	0	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°	915.0	915.0	915.0	915.0	915.0
2.5°	907.8	914.4	916.8	921.0	919.2
5°	907.8	915.0	916.2	919.8	918.6
7.5°	906.1	912.6	914.4	916.2	913.8
10°	902.5	909.0	909.0	909.0	906.1
12.5°	897.7	904.9	901.3	898.9	895.9
15°	893.5	898.9	891.7	887.6	881.6
17.5°	888.2	892.3	880.4	872.1	864.3
20°	881.0	882.8	866.1	850.6	842.2
22.5°	873.3	871.5	850.0	827.3	816.0
25°	864.3	859.5	830.3	798.1	781.4
27.5°	856.0	845.8	806.4	762.9	745.6
30°	845.2	831.5	778.4	723.5	700.3
32.5°	834.5	814.2	745.6	678.8	653.2
35°	822.6	794.5	705.0	622.7	593.5
37.5°	808.2	770.1	654.3	561.9	530.9
40°	793.9	741.4	596.5	491.5	464.1
42.5°	780.2	709.2	525.5	412.8	385.9
45°	765.3	668.1	441.4	328.1	305.4
47.5°	749.2	611.4	344.2	248.7	229.6
50°	731.9	538.0	244.0	174.2	159.3
52.5°	711.6	436.6	161.1	117.5	108.0
55°	689.5	316.7	105.0	81.7	76.4
57.5°	661.5	206.4	74.0	60.8	56.7
60°	630.5	123.5	56.1	48.3	45.3
62.5°	590.5	79.9	45.3	40.6	37.0
65°	533.9	59.1	38.2	34.0	31.6
67.5°	462.3	48.9	32.2	29.2	26.8
70°	374.0	42.9	28.0	25.6	23.9
72.5°	282.7	37.6	24.5	22.7	21.5
75°	199.2	32.8	21.5	20.9	19.7
77.5°	130.6	28.6	19.7	19.1	18.5
80°	78.7	24.5	17.3	17.3	16.7
82.5°	44.1	21.5	15.5	15.5	14.3
85°	18.5	18.5	13.1	13.1	12.5
87.5°	5.4	14.3	10.7	10.7	9.5
90°	0.0	10.7	8.4	8.4	7.8
92.5°	0.0	6.0	6.0	6.6	6.0
95°	0.0	1.2	3.6	5.4	4.8
97.5°	0.0	0.6	2.4	4.2	3.6
100°	0.0	0.0	1.2	3.0	2.4
102.5°	0.0	0.0	0.6	1.8	1.8
105°	0.0	0.0	0.6	1.2	0.6
107.5°	0.0	0.0	0.6	0.6	0.6
110°	0.0	0.0	0.6	0.6	0.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.6	0.6	0.6
115°	0.0	0.0	0.0	0.6	0.6
117.5°	0.0	0.0	0.0	0.6	0.0
120°	0.0	0.0	0.0	0.6	0.0
122.5°	0.0	0.0	0.0	0.6	0.0
125°	0.0	0.0	0.6	0.6	0.0
127.5°	0.0	0.0	0.6	0.6	0.6
130°	0.0	0.0	0.6	0.6	0.6
132.5°	0.6	0.0	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	1.2	0.6
157.5°	0.6	0.6	0.6	1.2	0.6
160°	0.6	0.6	0.6	1.2	0.6
162.5°	0.6	0.6	1.2	1.2	1.2
165°	0.6	0.6	1.2	1.2	1.2
167.5°	0.6	0.6	1.2	1.2	1.2
170°	0.6	0.6	1.2	1.2	1.2
172.5°	0.6	0.6	1.2	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	20.35	21.76	20.72	22.09	22.41	9.47	10.88	9.84	11.20	11.53
	3H	23.13	24.39	23.52	24.72	25.10	10.47	11.73	10.86	12.07	12.44
	4H	23.96	25.14	24.37	25.49	25.88	11.03	12.20	11.44	12.56	12.95
	6H	24.36	25.44	24.78	25.81	26.21	11.73	12.81	12.15	13.19	13.59
	8H	24.43	25.46	24.87	25.85	26.27	12.10	13.13	12.54	13.53	13.94
	12H	24.45	25.43	24.89	25.82	26.26	12.52	13.50	12.96	13.89	14.33
4H	2H	20.17	21.34	20.58	21.70	22.09	9.90	11.07	10.31	11.43	11.82
	3H	22.96	23.93	23.38	24.34	24.75	11.18	12.14	11.59	12.55	12.96
	4H	23.80	24.66	24.24	25.08	25.53	11.91	12.77	12.35	13.20	13.65
	6H	24.27	25.02	24.74	25.47	25.94	12.83	13.57	13.29	14.03	14.50
	8H	24.38	25.08	24.85	25.53	26.01	13.31	14.01	13.78	14.46	14.94
	12H	24.43	25.05	24.92	25.54	26.02	13.85	14.48	14.35	14.96	15.44
8H	4H	23.69	24.39	24.16	24.84	25.32	12.35	13.05	12.83	13.50	13.98
	6H	24.16	24.74	24.67	25.24	25.73	13.47	14.05	13.98	14.55	15.03
	8H	24.30	24.81	24.82	25.33	25.83	14.11	14.63	14.64	15.15	15.65
	12H	24.39	24.85	24.91	25.35	25.93	14.85	15.31	15.37	15.81	16.39
12H	4H	23.65	24.27	24.14	24.76	25.24	12.52	13.14	13.01	13.63	14.11
	6H	24.11	24.63	24.64	25.15	25.65	13.68	14.20	14.21	14.72	15.22
	8H	24.27	24.73	24.79	25.23	25.81	14.42	14.88	14.94	15.38	15.96