

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: P895762

Luminaire Tested: 2MB-2SL-ACL-UNV-L935

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895762
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-L935
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 3500K (C)
Light Source: -
Ballast/Driver: -

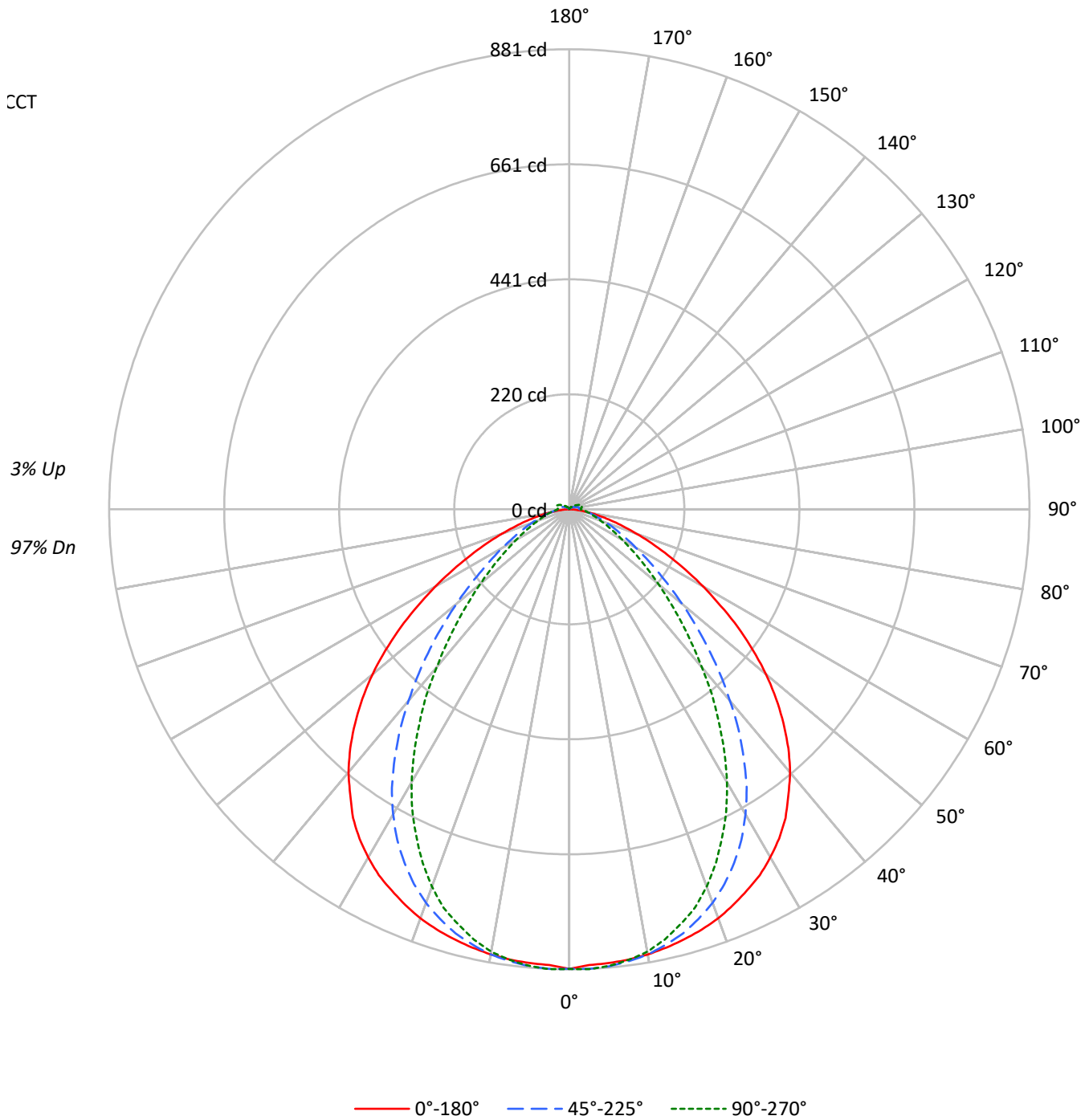
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1834.0 lumens
Efficiency: N/A
Efficacy: 123.1 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°	18023	18023	18023
5°	17864	17667	17561
10°	17867	17236	16948
15°	17866	16701	16088
20°	17891	16012	15038
25°	17842	15108	13652
30°	17763	13926	12086
35°	17524	12381	10242
40°	16978	10561	8346
45°	16120	8693	6613
50°	14918	6909	5162
55°	13282	5371	3997
60°	11314	4193	3132
65°	9248	3333	2488
70°	7336	2698	2042
75°	5668	2196	1786
80°	4027	1852	1617
85°	2300	1613	1455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16120 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	4.5
10°-20°	236.6	12.9
20°-30°	343.8	18.7
30°-40°	371.6	20.3
40°-50°	313.5	17.1
50°-60°	214.8	11.7
60°-70°	125.2	6.8
70°-80°	64.0	3.5
80°-90°	27.6	1.5
90°-100°	16.8	0.9
100°-110°	15.0	0.8
110°-120°	10.2	0.6
120°-130°	5.7	0.3
130°-140°	3.1	0.2
140°-150°	1.6	0.1
150°-160°	0.9	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	663.7	36.2
0°-40°	1035.3	56.5
0°-60°	1563.6	85.3
0°-90°	1780.4	97.1
90°-120°	41.9	2.3
90°-150°	52.3	2.9
90°-180°	54.0	2.9
0°-180°	1834.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	872	878	878	880	878	83
15°	852	852	841	831	823	241
25°	805	789	747	710	693	371
35°	722	675	582	520	500	450
45°	580	491	376	318	300	446
55°	394	299	204	171	162	352
65°	208	153	106	90	86	209
75°	83	68	54	50	49	90
85°	14	20	27	28	28	18
90°	1	9	19	22	22	1
95°	0	8	19	22	23	0
105°	0	5	16	24	25	0
115°	0	3	10	18	20	0
125°	0	2	6	10	12	0
135°	1	2	4	6	7	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°	880.2	880.2	880.2	880.2	880.2
2.5°	873.5	879.0	880.8	883.2	881.4
5°	872.3	877.8	878.4	880.2	877.8
7.5°	869.9	874.1	872.9	872.9	870.5
10°	865.7	868.1	865.7	862.6	860.2
12.5°	859.6	861.4	854.2	849.9	843.9
15°	852.3	851.7	840.9	830.6	822.7
17.5°	843.9	839.6	822.7	807.0	800.3
20°	833.6	825.7	802.1	779.1	768.9
22.5°	820.3	809.4	776.7	747.1	733.2
25°	805.2	789.4	747.1	710.2	692.6
27.5°	790.0	766.4	713.8	667.8	650.9
30°	769.5	739.8	674.5	622.5	603.7
32.5°	747.7	710.2	632.2	571.7	552.9
35°	721.7	675.1	582.5	520.2	499.7
37.5°	689.0	634.0	532.3	467.0	449.5
40°	657.6	589.2	478.5	413.8	394.4
42.5°	620.7	540.8	426.5	363.6	346.0
45°	580.1	490.6	375.7	317.6	300.0
47.5°	537.2	442.8	327.3	273.4	259.5
50°	491.8	393.8	281.9	235.3	222.6
52.5°	443.4	344.8	240.2	201.4	189.9
55°	394.4	298.8	204.5	171.2	162.1
57.5°	343.0	254.7	174.2	145.8	137.3
60°	296.4	217.8	147.0	124.6	118.0
62.5°	250.4	183.9	125.2	105.9	100.4
65°	208.1	153.0	105.9	90.1	85.9
67.5°	171.2	128.2	90.7	77.4	74.4
70°	136.7	104.7	76.2	66.5	63.5
72.5°	107.7	84.7	64.1	57.5	55.7
75°	82.9	67.8	53.8	50.2	49.0
77.5°	60.5	52.0	45.4	43.6	42.9
80°	42.3	39.3	38.1	38.1	38.1
82.5°	26.6	29.0	32.1	33.3	33.3
85°	14.5	20.0	26.6	28.4	28.4
87.5°	6.0	13.9	22.4	24.2	23.6
90°	0.6	9.1	19.4	21.8	21.8
92.5°	0.0	9.1	19.4	21.8	21.8
95°	0.0	8.5	18.8	22.4	23.0
97.5°	0.0	7.9	18.8	23.0	23.6
100°	0.6	7.3	18.8	23.6	24.2
102.5°	0.0	6.0	17.5	23.6	24.8
105°	0.0	4.8	16.3	23.6	24.8
107.5°	0.0	3.6	15.1	22.4	24.2
110°	0.0	3.6	13.9	21.2	23.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.0	12.1	19.4	21.8
115°	0.0	3.0	10.3	17.5	20.0
117.5°	0.0	2.4	9.1	15.7	17.5
120°	0.0	2.4	7.9	13.9	15.7
122.5°	0.0	2.4	7.3	12.1	13.9
125°	0.0	1.8	6.0	10.3	12.1
127.5°	0.6	1.8	5.4	9.1	10.9
130°	0.6	1.8	4.8	7.9	9.7
132.5°	0.6	1.8	4.2	7.3	8.5
135°	0.6	1.8	4.2	6.0	7.3
137.5°	0.6	1.8	3.6	5.4	6.0
140°	0.6	1.8	3.0	4.8	5.4
142.5°	0.6	1.2	3.0	4.2	4.8
145°	0.6	1.2	3.0	3.6	4.2
147.5°	0.6	1.2	2.4	3.6	3.6
150°	0.6	1.2	2.4	3.0	3.6
152.5°	0.6	1.2	1.8	3.0	3.0
155°	0.6	1.2	1.8	2.4	3.0
157.5°	0.6	1.2	1.8	2.4	2.4
160°	0.6	1.2	1.2	1.8	2.4
162.5°	0.6	0.6	1.2	1.8	1.8
165°	0.6	0.6	1.2	1.8	1.8
167.5°	0.6	0.6	1.2	1.2	1.8
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	18.58	19.98	18.99	20.36	20.75	14.90	16.30	15.32	16.68	17.07
	3H	19.65	20.90	20.07	21.29	21.72	16.08	17.33	16.51	17.73	18.16
	4H	19.94	21.11	20.39	21.52	21.97	16.61	17.78	17.06	18.19	18.64
	6H	20.07	21.15	20.54	21.58	22.05	17.15	18.23	17.61	18.66	19.12
	8H	20.08	21.11	20.56	21.56	22.04	17.42	18.45	17.90	18.90	19.37
	12H	20.07	21.06	20.55	21.50	22.00	17.72	18.70	18.20	19.14	19.64
4H	2H	18.61	19.78	19.06	20.19	20.65	15.36	16.53	15.81	16.94	17.40
	3H	19.83	20.81	20.30	21.26	21.74	16.72	17.69	17.18	18.15	18.63
	4H	20.21	21.09	20.70	21.56	22.07	17.35	18.23	17.84	18.70	19.21
	6H	20.43	21.19	20.94	21.69	22.22	18.03	18.78	18.53	19.28	19.81
	8H	20.47	21.18	20.98	21.67	22.21	18.37	19.08	18.88	19.58	20.12
	12H	20.47	21.10	21.00	21.64	22.18	18.75	19.38	19.28	19.91	20.45
8H	4H	20.23	20.94	20.75	21.44	21.98	17.57	18.28	18.09	18.78	19.32
	6H	20.51	21.09	21.05	21.64	22.19	18.36	18.94	18.90	19.49	20.04
	8H	20.57	21.10	21.14	21.66	22.22	18.80	19.32	19.36	19.88	20.44
	12H	20.61	21.08	21.17	21.62	22.26	19.30	19.77	19.86	20.31	20.94
12H	4H	20.22	20.85	20.75	21.38	21.92	17.58	18.21	18.11	18.75	19.29
	6H	20.50	21.03	21.06	21.59	22.15	18.39	18.92	18.95	19.48	20.04
	8H	20.61	21.07	21.16	21.62	22.25	18.89	19.35	19.44	19.90	20.53