

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: P895761

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

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895761
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-L930
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 3000K (C)
Light Source: -
Ballast/Driver: -

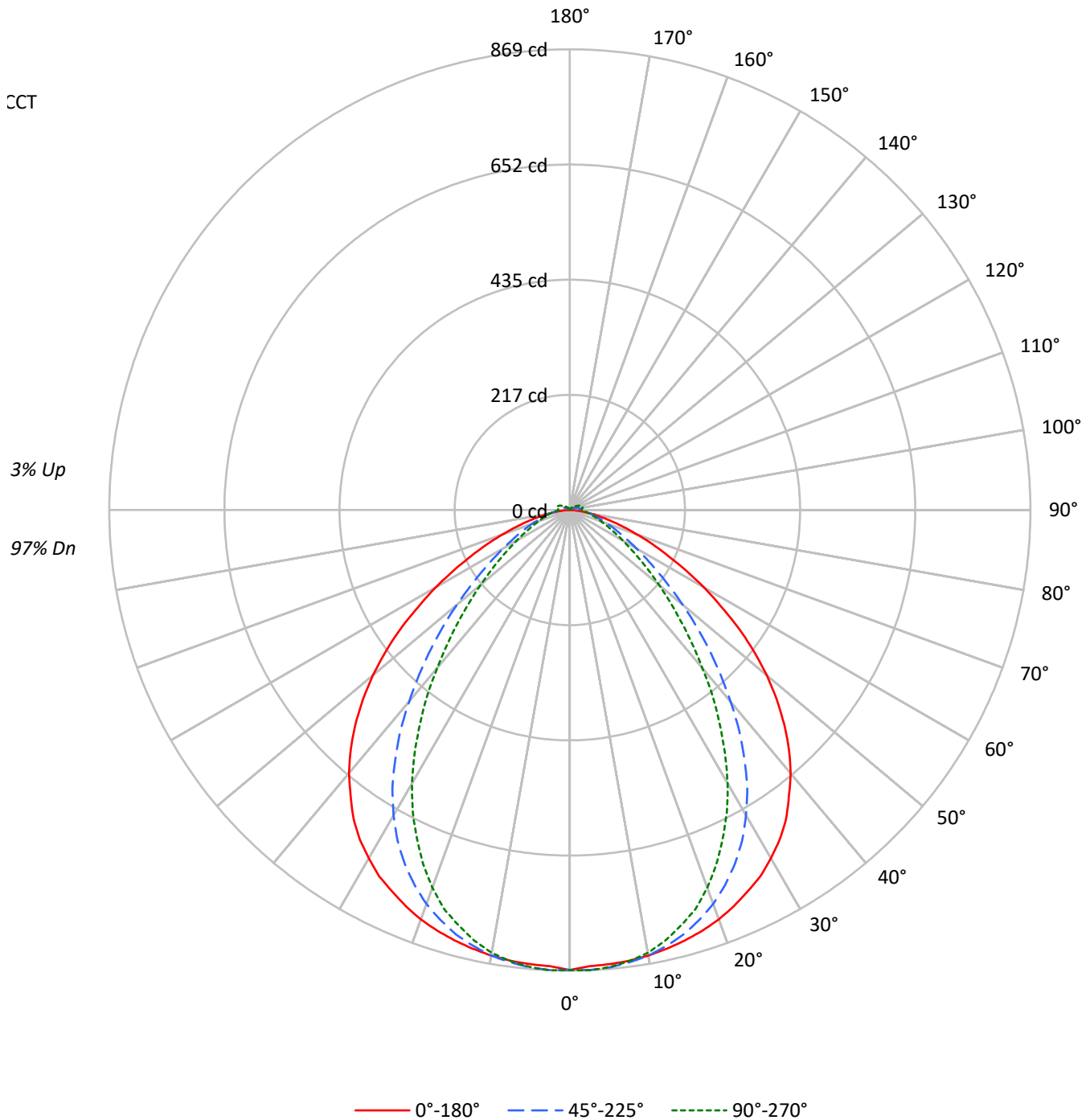
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1808.1 lumens
Efficiency: N/A
Efficacy: 121.3 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°	17767	17767	17767
5°	17610	17415	17311
10°	17613	16991	16708
15°	17615	16462	15860
20°	17637	15787	14825
25°	17587	14893	13459
30°	17511	13728	11916
35°	17274	12206	10097
40°	16735	10411	8228
45°	15892	8568	6521
50°	14706	6811	5090
55°	13093	5295	3940
60°	11153	4133	3086
65°	9115	3286	2454
70°	7234	2659	2013
75°	5586	2167	1761
80°	3970	1827	1596
85°	2268	1589	1435

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15892 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	4.5
10°-20°	233.2	12.9
20°-30°	338.9	18.7
30°-40°	366.3	20.3
40°-50°	309.1	17.1
50°-60°	211.8	11.7
60°-70°	123.5	6.8
70°-80°	63.0	3.5
80°-90°	27.2	1.5
90°-100°	16.5	0.9
100°-110°	14.8	0.8
110°-120°	10.0	0.6
120°-130°	5.6	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°	654.3	36.2
0°-40°	1020.6	56.4
0°-60°	1541.5	85.3
0°-90°	1755.2	97.1
90°-120°	41.3	2.3
90°-150°	51.6	2.9
90°-180°	53.0	2.9
0°-180°	1808.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	860	865	866	868	865	82
15°	840	840	829	819	811	237
25°	794	778	736	700	683	366
35°	711	666	574	513	493	443
45°	572	484	370	313	296	440
55°	389	295	202	169	160	347
65°	205	151	104	89	85	206
75°	82	67	53	50	48	88
85°	14	20	26	28	28	17
90°	1	9	19	22	22	1
95°	0	8	18	22	23	0
105°	0	5	16	23	24	0
115°	0	3	10	17	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°	867.7	867.7	867.7	867.7	867.7
2.5°	861.1	866.5	868.3	870.7	868.9
5°	859.9	865.3	865.9	867.7	865.3
7.5°	857.6	861.7	860.5	860.5	858.2
10°	853.4	855.8	853.4	850.4	848.0
12.5°	847.4	849.2	842.1	837.9	831.9
15°	840.3	839.7	828.9	818.8	811.0
17.5°	831.9	827.7	811.0	795.5	789.0
20°	821.8	814.0	790.8	768.1	758.0
22.5°	808.7	797.9	765.7	736.5	722.8
25°	793.7	778.2	736.5	700.1	682.8
27.5°	778.8	755.6	703.7	658.4	641.7
30°	758.6	729.3	664.9	613.6	595.2
32.5°	737.1	700.1	623.2	563.6	545.1
35°	711.4	665.5	574.3	512.9	492.6
37.5°	679.2	625.0	524.8	460.4	443.1
40°	648.2	580.8	471.7	407.9	388.8
42.5°	611.9	533.1	420.4	358.4	341.1
45°	571.9	483.6	370.3	313.1	295.8
47.5°	529.6	436.5	322.6	269.6	255.8
50°	484.8	388.2	277.9	232.0	219.5
52.5°	437.1	339.9	236.8	198.6	187.3
55°	388.8	294.6	201.6	168.8	159.8
57.5°	338.1	251.1	171.7	143.7	135.4
60°	292.2	214.7	144.9	122.8	116.3
62.5°	246.9	181.3	123.4	104.4	99.0
65°	205.1	150.9	104.4	88.9	84.7
67.5°	168.8	126.4	89.5	76.3	73.4
70°	134.8	103.2	75.1	65.6	62.6
72.5°	106.2	83.5	63.2	56.7	54.9
75°	81.7	66.8	53.1	49.5	48.3
77.5°	59.6	51.3	44.7	42.9	42.3
80°	41.7	38.8	37.6	37.6	37.6
82.5°	26.2	28.6	31.6	32.8	32.8
85°	14.3	19.7	26.2	28.0	28.0
87.5°	6.0	13.7	22.1	23.9	23.3
90°	0.6	8.9	19.1	21.5	21.5
92.5°	0.0	8.9	19.1	21.5	21.5
95°	0.0	8.3	18.5	22.1	22.7
97.5°	0.0	7.8	18.5	22.7	23.3
100°	0.6	7.2	18.5	23.3	23.9
102.5°	0.0	6.0	17.3	23.3	24.5
105°	0.0	4.8	16.1	23.3	24.5
107.5°	0.0	3.6	14.9	22.1	23.9
110°	0.0	3.6	13.7	20.9	22.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.0	11.9	19.1	21.5
115°	0.0	3.0	10.1	17.3	19.7
117.5°	0.0	2.4	8.9	15.5	17.3
120°	0.0	2.4	7.8	13.7	15.5
122.5°	0.0	2.4	7.2	11.9	13.7
125°	0.0	1.8	6.0	10.1	11.9
127.5°	0.6	1.8	5.4	8.9	10.7
130°	0.6	1.8	4.8	7.8	9.5
132.5°	0.6	1.8	4.2	7.2	8.3
135°	0.6	1.8	4.2	6.0	7.2
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	18.53	19.93	18.94	20.31	20.70	14.85	16.25	15.27	16.63	17.02
	3H	19.60	20.85	20.02	21.24	21.68	16.03	17.28	16.46	17.68	18.11
	4H	19.89	21.06	20.34	21.47	21.92	16.56	17.73	17.01	18.14	18.59
	6H	20.02	21.10	20.49	21.53	22.00	17.10	18.18	17.56	18.61	19.07
	8H	20.03	21.06	20.51	21.51	21.99	17.37	18.40	17.85	18.85	19.32
	12H	20.02	21.01	20.50	21.45	21.95	17.67	18.65	18.15	19.09	19.59
4H	2H	18.56	19.73	19.01	20.14	20.60	15.31	16.48	15.76	16.89	17.34
	3H	19.79	20.76	20.25	21.21	21.69	16.67	17.64	17.14	18.10	18.58
	4H	20.16	21.04	20.65	21.51	22.02	17.30	18.18	17.79	18.65	19.16
	6H	20.38	21.14	20.89	21.64	22.17	17.98	18.73	18.48	19.23	19.76
	8H	20.42	21.13	20.93	21.62	22.16	18.32	19.03	18.83	19.53	20.07
	12H	20.42	21.05	20.95	21.59	22.13	18.70	19.33	19.23	19.86	20.40
8H	4H	20.18	20.89	20.70	21.39	21.93	17.52	18.23	18.04	18.73	19.27
	6H	20.46	21.04	21.00	21.59	22.14	18.31	18.89	18.85	19.44	19.99
	8H	20.52	21.05	21.09	21.61	22.17	18.74	19.27	19.31	19.83	20.39
	12H	20.56	21.03	21.12	21.57	22.21	19.25	19.72	19.81	20.26	20.89
12H	4H	20.17	20.80	20.70	21.33	21.87	17.53	18.16	18.06	18.70	19.24
	6H	20.45	20.98	21.01	21.54	22.10	18.34	18.87	18.90	19.43	19.99
	8H	20.56	21.02	21.12	21.57	22.20	18.84	19.30	19.39	19.85	20.48