

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: P892474

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892474
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-L935
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

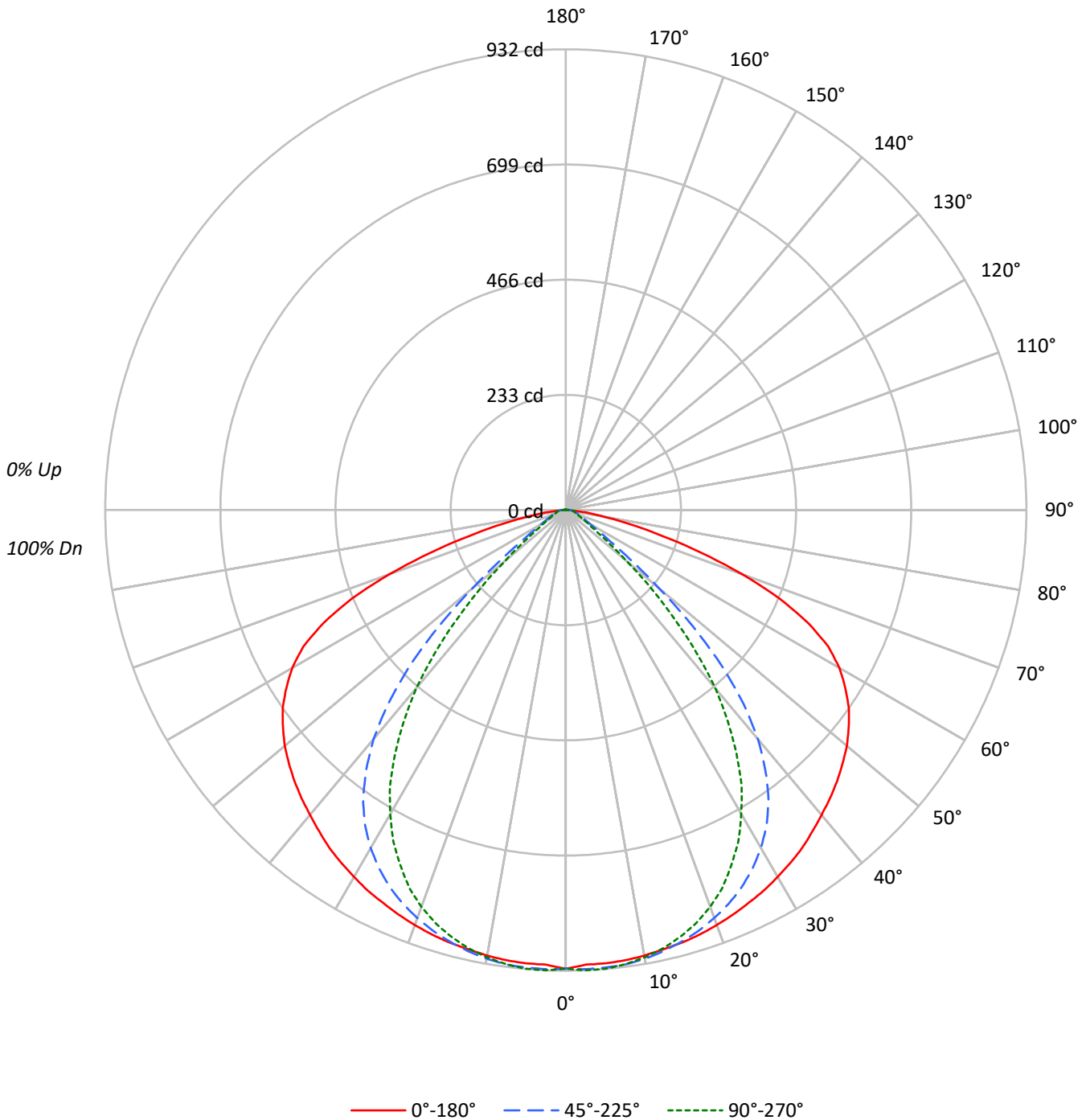
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1946.0 lumens
Efficiency: N/A
Efficacy: 130.6 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 (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				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	90	90	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	79	79	79	77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	76	73	69	69	69	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	61	61	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	59	55	55	55	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	49	49	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	44	44	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	40	40	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	36	36	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19000	19000	19000
5°	18923	19097	19147
10°	19029	19166	19104
15°	19208	19170	18952
20°	19468	19139	18611
25°	19803	19024	17903
30°	20265	18665	16790
35°	20850	17873	15046
40°	21520	16169	12579
45°	22474	12962	8968
50°	23643	7881	5145
55°	24961	3802	2763
60°	26185	2330	1884
65°	26232	1875	1555
70°	22708	1700	1449
75°	15981	1725	1582
80°	9410	2064	1993
85°	4417	3125	2984

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 26554 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	4.5
10°-20°	255.1	13.1
20°-30°	386.1	19.8
30°-40°	445.9	22.9
40°-50°	381.3	19.6
50°-60°	208.3	10.7
60°-70°	105.2	5.4
70°-80°	51.1	2.6
80°-90°	17.6	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°	729.7	37.5
0°-40°	1175.6	60.4
0°-60°	1765.3	90.7
0°-90°	1939.1	99.6
90°-120°	5.2	0.3
90°-150°	6.2	0.3
90°-180°	7.0	0.4
0°-180°	1946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	921	928	929	933	932	88
15°	906	912	904	900	894	256
25°	876	872	842	809	792	405
35°	834	806	715	632	602	522
45°	776	678	448	333	310	600
55°	699	321	106	83	77	623
65°	541	60	39	34	32	524
75°	202	33	22	21	20	224
85°	19	19	13	13	13	29
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°	927.9	927.9	927.9	927.9	927.9
2.5°	920.6	927.3	929.7	933.9	932.1
5°	920.6	927.9	929.1	932.7	931.5
7.5°	918.8	925.5	927.3	929.1	926.7
10°	915.2	921.8	921.8	921.8	918.8
12.5°	910.3	917.6	914.0	911.5	908.5
15°	906.1	911.5	904.3	900.1	894.0
17.5°	900.7	904.9	892.8	884.3	876.5
20°	893.4	895.2	878.3	862.6	854.1
22.5°	885.5	883.7	861.9	839.0	827.5
25°	876.5	871.6	842.0	809.3	792.4
27.5°	868.0	857.7	817.8	773.6	756.1
30°	857.1	843.2	789.4	733.7	710.1
32.5°	846.2	825.7	756.1	688.4	662.3
35°	834.1	805.7	715.0	631.5	601.9
37.5°	819.6	780.9	663.6	569.8	538.3
40°	805.1	751.9	604.9	498.4	470.6
42.5°	791.2	719.2	532.9	418.6	391.4
45°	776.1	677.5	447.6	332.7	309.7
47.5°	759.7	620.0	349.0	252.2	232.9
50°	742.2	545.6	247.4	176.6	161.5
52.5°	721.6	442.8	163.3	119.2	109.5
55°	699.2	321.2	106.5	82.9	77.4
57.5°	670.8	209.3	75.0	61.7	57.5
60°	639.4	125.2	56.9	49.0	46.0
62.5°	598.8	81.1	46.0	41.1	37.5
65°	541.4	59.9	38.7	34.5	32.1
67.5°	468.8	49.6	32.7	29.6	27.2
70°	379.3	43.6	28.4	26.0	24.2
72.5°	286.7	38.1	24.8	23.0	21.8
75°	202.0	33.3	21.8	21.2	20.0
77.5°	132.5	29.0	20.0	19.4	18.8
80°	79.8	24.8	17.5	17.5	16.9
82.5°	44.8	21.8	15.7	15.7	14.5
85°	18.8	18.8	13.3	13.3	12.7
87.5°	5.4	14.5	10.9	10.9	9.7
90°	0.0	10.9	8.5	8.5	7.9
92.5°	0.0	6.0	6.0	6.7	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	20.40	21.81	20.77	22.13	22.46	9.52	10.93	9.89	11.25	11.58
	3H	23.18	24.44	23.57	24.77	25.15	10.52	11.78	10.91	12.12	12.49
	4H	24.01	25.18	24.42	25.54	25.93	11.08	12.25	11.49	12.61	13.00
	6H	24.41	25.49	24.83	25.86	26.26	11.78	12.86	12.20	13.24	13.64
	8H	24.48	25.51	24.91	25.90	26.32	12.15	13.18	12.59	13.58	13.99
	12H	24.50	25.48	24.94	25.87	26.31	12.57	13.55	13.01	13.94	14.38
4H	2H	20.22	21.39	20.63	21.75	22.14	9.95	11.13	10.36	11.48	11.87
	3H	23.01	23.98	23.43	24.38	24.80	11.23	12.19	11.65	12.60	13.01
	4H	23.85	24.71	24.29	25.13	25.58	11.96	12.83	12.40	13.25	13.70
	6H	24.32	25.07	24.79	25.52	25.99	12.88	13.62	13.34	14.08	14.55
	8H	24.43	25.13	24.90	25.58	26.06	13.36	14.06	13.83	14.51	14.99
	12H	24.48	25.10	24.97	25.59	26.07	13.90	14.53	14.40	15.01	15.49
8H	4H	23.74	24.44	24.21	24.89	25.37	12.40	13.10	12.88	13.56	14.03
	6H	24.21	24.79	24.72	25.29	25.78	13.52	14.10	14.03	14.60	15.08
	8H	24.34	24.86	24.87	25.38	25.88	14.16	14.68	14.68	15.20	15.70
	12H	24.44	24.90	24.96	25.40	25.98	14.90	15.36	15.42	15.86	16.44
12H	4H	23.70	24.32	24.19	24.81	25.29	12.57	13.19	13.06	13.68	14.16
	6H	24.16	24.68	24.69	25.20	25.70	13.73	14.25	14.26	14.77	15.27
	8H	24.32	24.78	24.84	25.28	25.86	14.47	14.93	14.99	15.43	16.00