

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: P892472

Luminaire Tested: 2MB-2SL-A-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892472
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-L850
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

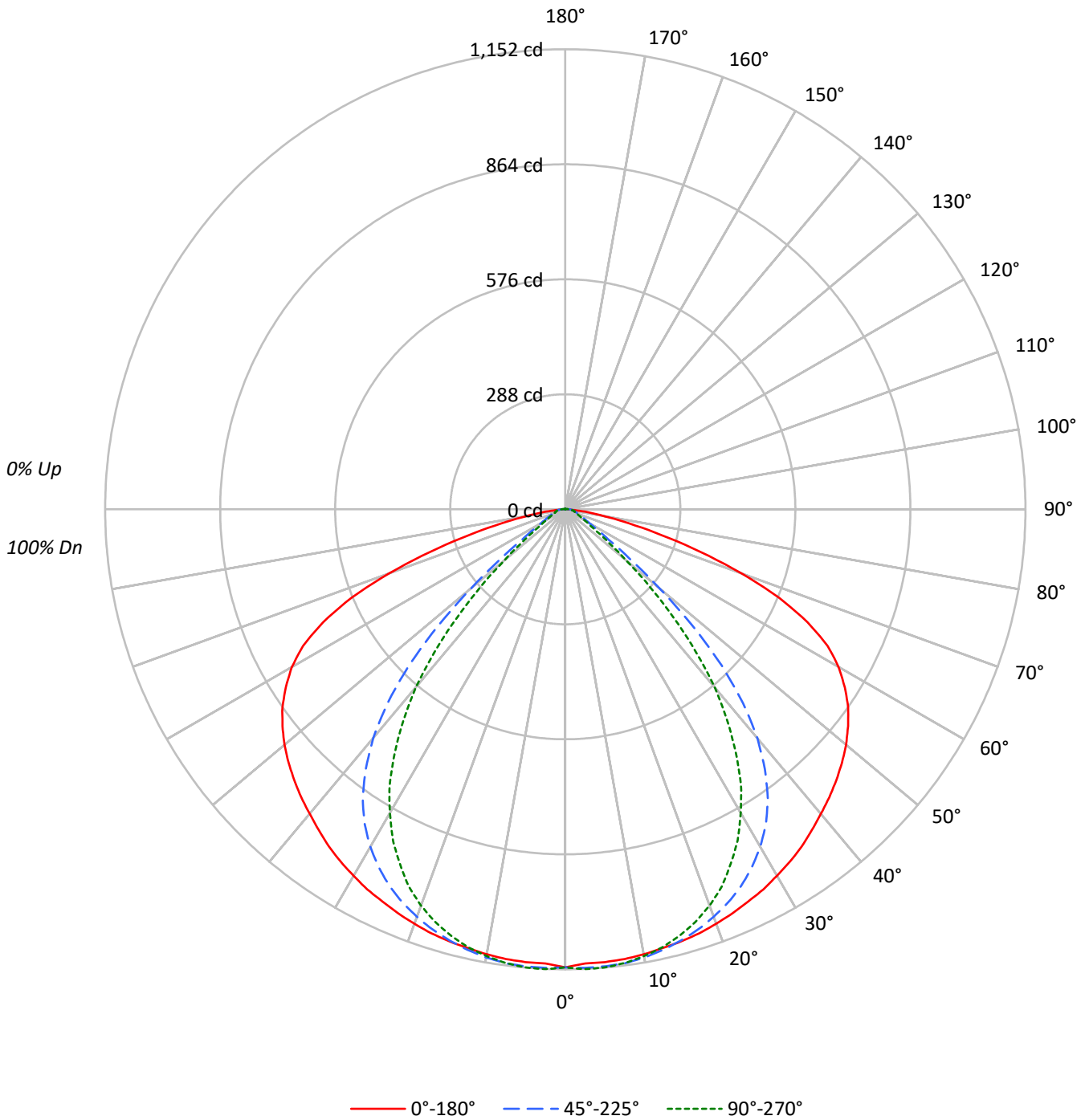
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2405.8 lumens
Efficiency: N/A
Efficacy: 161.5 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	73	69	76	73	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°	23491	23491	23491
5°	23395	23611	23673
10°	23527	23697	23620
15°	23749	23700	23431
20°	24070	23662	23011
25°	24482	23520	22135
30°	25056	23077	20760
35°	25780	22098	18600
40°	26607	19991	15552
45°	27785	16025	11088
50°	29231	9745	6362
55°	30862	4698	3416
60°	32373	2879	2326
65°	32429	2321	1919
70°	28073	2101	1790
75°	19763	2128	1954
80°	11639	2559	2465
85°	5451	3877	3689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 32833 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	4.5
10°-20°	315.4	13.1
20°-30°	477.4	19.8
30°-40°	551.4	22.9
40°-50°	471.5	19.6
50°-60°	257.5	10.7
60°-70°	130.1	5.4
70°-80°	63.1	2.6
80°-90°	21.7	0.9
90°-100°	5.2	0.2
100°-110°	0.8	0.0
110°-120°	0.3	0.0
120°-130°	0.3	0.0
130°-140°	0.5	0.0
140°-150°	0.4	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	902.1	37.5
0°-40°	1453.5	60.4
0°-60°	2182.5	90.7
0°-90°	2397.4	99.7
90°-120°	6.4	0.3
90°-150°	7.6	0.3
90°-180°	8.0	0.3
0°-180°	2405.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1138	1147	1149	1153	1152	108
15°	1120	1127	1118	1113	1105	317
25°	1084	1078	1041	1001	980	501
35°	1031	996	884	781	744	646
45°	960	838	553	411	383	741
55°	864	397	132	102	96	771
65°	669	74	48	43	40	648
75°	250	41	27	26	25	277
85°	23	23	16	16	16	36
90°	0	14	10	10	10	1
95°	0	2	4	7	6	0
105°	0	0	1	2	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	2	1	0
165°	1	1	2	2	2	0
175°	1	1	2	2	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.2	1147.2	1147.2	1147.2	1147.2
2.5°	1138.2	1146.5	1149.5	1154.7	1152.5
5°	1138.2	1147.2	1148.7	1153.2	1151.7
7.5°	1136.0	1144.2	1146.5	1148.7	1145.7
10°	1131.5	1139.7	1139.7	1139.7	1136.0
12.5°	1125.5	1134.5	1130.0	1127.0	1123.3
15°	1120.3	1127.0	1118.0	1112.8	1105.3
17.5°	1113.6	1118.8	1103.8	1093.4	1083.6
20°	1104.6	1106.8	1085.9	1066.4	1056.0
22.5°	1094.9	1092.6	1065.7	1037.3	1023.1
25°	1083.6	1077.7	1041.0	1000.6	979.7
27.5°	1073.2	1060.5	1011.1	956.5	934.8
30°	1059.7	1042.5	976.0	907.2	878.0
32.5°	1046.3	1020.8	934.8	851.1	818.9
35°	1031.3	996.1	884.0	780.8	744.1
37.5°	1013.3	965.5	820.4	704.5	665.6
40°	995.4	929.6	747.9	616.2	581.8
42.5°	978.2	889.2	658.9	517.5	483.9
45°	959.5	837.6	553.4	411.3	382.9
47.5°	939.3	766.6	431.5	311.9	287.9
50°	917.6	674.6	305.9	218.4	199.7
52.5°	892.2	547.4	201.9	147.3	135.4
55°	864.5	397.1	131.6	102.5	95.7
57.5°	829.4	258.8	92.7	76.3	71.0
60°	790.5	154.8	70.3	60.6	56.8
62.5°	740.4	100.2	56.8	50.9	46.4
65°	669.3	74.0	47.9	42.6	39.6
67.5°	579.6	61.3	40.4	36.6	33.7
70°	468.9	53.8	35.1	32.2	29.9
72.5°	354.5	47.1	30.7	28.4	26.9
75°	249.8	41.1	26.9	26.2	24.7
77.5°	163.8	35.9	24.7	23.9	23.2
80°	98.7	30.7	21.7	21.7	20.9
82.5°	55.3	26.9	19.4	19.4	17.9
85°	23.2	23.2	16.5	16.5	15.7
87.5°	6.7	17.9	13.5	13.5	12.0
90°	0.0	13.5	10.5	10.5	9.7
92.5°	0.0	7.5	7.5	8.2	7.5
95°	0.0	1.5	4.5	6.7	6.0
97.5°	0.0	0.7	3.0	5.2	4.5
100°	0.0	0.0	1.5	3.7	3.0
102.5°	0.0	0.0	0.7	2.2	2.2
105°	0.0	0.0	0.7	1.5	0.7
107.5°	0.0	0.0	0.7	0.7	0.7
110°	0.0	0.0	0.7	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.7	0.7	0.7
115°	0.0	0.0	0.0	0.7	0.7
117.5°	0.0	0.0	0.0	0.7	0.0
120°	0.0	0.0	0.0	0.7	0.0
122.5°	0.0	0.0	0.0	0.7	0.0
125°	0.0	0.0	0.7	0.7	0.0
127.5°	0.0	0.0	0.7	0.7	0.7
130°	0.0	0.0	0.7	0.7	0.7
132.5°	0.7	0.0	0.7	0.7	0.7
135°	0.7	0.7	0.7	0.7	0.7
137.5°	0.7	0.7	0.7	0.7	0.7
140°	0.7	0.7	0.7	0.7	0.7
142.5°	0.7	0.7	0.7	0.7	0.7
145°	0.7	0.7	0.7	0.7	0.7
147.5°	0.7	0.7	0.7	0.7	0.7
150°	0.7	0.7	0.7	0.7	0.7
152.5°	0.7	0.7	0.7	0.7	0.7
155°	0.7	0.7	0.7	1.5	0.7
157.5°	0.7	0.7	0.7	1.5	0.7
160°	0.7	0.7	0.7	1.5	0.7
162.5°	0.7	0.7	1.5	1.5	1.5
165°	0.7	0.7	1.5	1.5	1.5
167.5°	0.7	0.7	1.5	1.5	1.5
170°	0.7	0.7	1.5	1.5	1.5
172.5°	0.7	0.7	1.5	1.5	1.5
175°	0.7	0.7	1.5	1.5	1.5
177.5°	0.7	0.7	1.5	1.5	1.5
180°	1.5	1.5	1.5	1.5	1.5



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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	21.14	22.55	21.51	22.87	23.20	10.26	11.67	10.63	11.99	12.32
	3H	23.92	25.17	24.30	25.51	25.88	11.26	12.52	11.65	12.86	13.23
	4H	24.75	25.92	25.16	26.28	26.67	11.82	12.99	12.23	13.35	13.74
	6H	25.14	26.22	25.56	26.60	27.00	12.52	13.60	12.94	13.97	14.38
	8H	25.22	26.24	25.65	26.64	27.05	12.89	13.91	13.32	14.31	14.72
	12H	25.23	26.22	25.67	26.61	27.04	13.31	14.29	13.75	14.68	15.12
4H	2H	20.96	22.13	21.37	22.49	22.88	10.69	11.86	11.10	12.22	12.61
	3H	23.75	24.71	24.17	25.12	25.53	11.97	12.93	12.38	13.34	13.75
	4H	24.58	25.45	25.02	25.87	26.32	12.70	13.56	13.14	13.99	14.44
	6H	25.06	25.80	25.52	26.25	26.73	13.61	14.36	14.08	14.81	15.28
	8H	25.17	25.87	25.64	26.32	26.80	14.10	14.79	14.57	15.25	15.72
	12H	25.22	25.84	25.71	26.33	26.81	14.64	15.26	15.13	15.75	16.23
8H	4H	24.48	25.17	24.95	25.63	26.11	13.14	13.84	13.61	14.29	14.77
	6H	24.95	25.53	25.46	26.03	26.51	14.26	14.83	14.76	15.33	15.82
	8H	25.08	25.60	25.61	26.12	26.62	14.90	15.42	15.42	15.94	16.43
	12H	25.18	25.64	25.70	26.14	26.71	15.64	16.10	16.16	16.60	17.18
12H	4H	24.44	25.06	24.93	25.55	26.03	13.31	13.93	13.80	14.41	14.90
	6H	24.90	25.42	25.42	25.94	26.44	14.47	14.99	14.99	15.51	16.01
	8H	25.06	25.52	25.58	26.02	26.60	15.21	15.67	15.72	16.17	16.74