

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: P892486

Luminaire Tested: 2MB-2SL-AOL-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-2SL-AOL-UNV-L835
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 8
3500K CCT
Light Source: -
Ballast/Driver: -

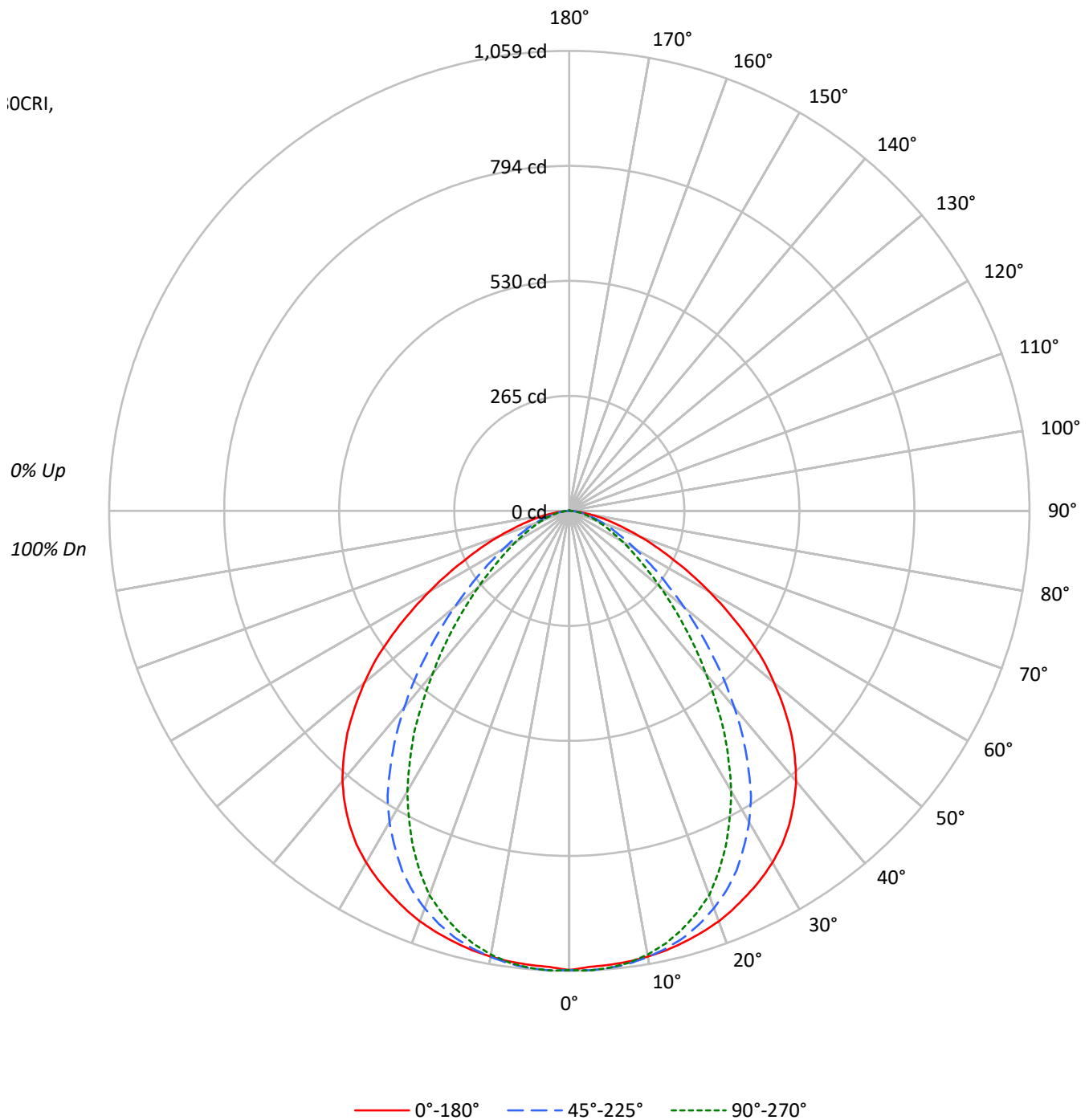
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2154.9 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.08 / 1.18
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				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	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	68	68	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	60	60	60	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	53	53	53	52
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	48	48	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	43	43	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	39	39	39	37
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	36	36	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	33	33	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21644	21644	21644
5°	21564	21712	21698
10°	21666	21680	21562
15°	21771	21559	21165
20°	21910	21211	20509
25°	21992	20603	19247
30°	22103	19568	17624
35°	22045	17935	15543
40°	21702	15798	13066
45°	20902	13350	10781
50°	19601	10974	8697
55°	17707	8903	6990
60°	15247	7171	5795
65°	12675	5921	4811
70°	10399	4963	4107
75°	8252	4241	3560
80°	6238	3620	3207
85°	4205	3360	3031

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20902 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	4.7
10°-20°	286.1	13.3
20°-30°	419.0	19.4
30°-40°	457.2	21.2
40°-50°	387.7	18.0
50°-60°	263.5	12.2
60°-70°	148.8	6.9
70°-80°	67.9	3.2
80°-90°	17.7	0.8
90°-100°	2.3	0.1
100°-110°	1.3	0.1
110°-120°	0.7	0.0
120°-130°	0.6	0.0
130°-140°	0.5	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°	805.4	37.4
0°-40°	1262.6	58.6
0°-60°	1913.8	88.8
0°-90°	2148.3	99.7
90°-120°	4.4	0.2
90°-150°	6.0	0.3
90°-180°	7.0	0.3
0°-180°	2154.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1049	1055	1056	1058	1056	100
15°	1027	1026	1017	1006	998	290
25°	973	957	912	870	852	449
35°	882	825	718	642	622	551
45°	722	610	461	392	372	554
55°	496	367	249	207	196	443
65°	262	186	122	104	99	263
75°	104	76	54	47	45	113
85°	18	16	14	14	13	22
90°	0	2	3	4	4	1
95°	0	1	2	4	4	0
105°	0	1	1	2	2	0
115°	0	0	1	1	1	0
125°	0	0	1	1	1	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°	1057.0	1057.0	1057.0	1057.0	1057.0
2.5°	1050.6	1056.3	1058.4	1061.3	1059.1
5°	1049.1	1054.8	1056.3	1058.4	1055.6
7.5°	1046.3	1051.3	1051.3	1051.3	1049.1
10°	1042.0	1045.6	1042.7	1039.8	1037.0
12.5°	1035.6	1037.0	1031.3	1026.3	1020.5
15°	1027.0	1026.3	1017.0	1005.5	998.4
17.5°	1017.0	1014.1	997.0	982.0	971.9
20°	1005.5	998.4	973.4	949.8	941.2
22.5°	990.5	980.5	945.5	912.6	898.3
25°	973.4	956.9	911.9	870.5	851.9
27.5°	955.5	931.2	870.5	819.0	799.0
30°	934.8	901.2	827.6	768.3	745.4
32.5°	911.2	868.3	778.3	706.8	682.5
35°	881.9	825.4	717.5	642.5	621.8
37.5°	849.0	779.7	656.1	578.2	553.2
40°	811.9	727.5	591.0	513.1	488.8
42.5°	768.3	671.8	526.7	451.0	430.2
45°	721.8	609.6	461.0	391.6	372.3
47.5°	669.6	548.1	400.9	335.2	320.2
50°	615.3	486.7	344.5	288.0	273.0
52.5°	560.3	425.2	292.3	244.4	231.6
55°	496.0	366.6	249.4	207.3	195.8
57.5°	433.1	314.5	208.7	173.7	166.5
60°	372.3	264.4	175.1	146.5	141.5
62.5°	315.9	221.5	147.2	123.6	117.2
65°	261.6	185.8	122.2	104.3	99.3
67.5°	215.1	151.5	102.2	86.5	82.2
70°	173.7	122.2	82.9	70.8	68.6
72.5°	135.1	97.9	67.9	58.6	56.5
75°	104.3	76.5	53.6	47.2	45.0
77.5°	76.5	57.2	41.5	36.4	35.0
80°	52.9	40.7	30.7	27.9	27.2
82.5°	33.6	26.4	22.2	20.0	20.0
85°	17.9	16.4	14.3	13.6	12.9
87.5°	7.1	7.9	7.9	7.9	7.1
90°	0.0	2.1	2.9	3.6	3.6
92.5°	0.0	1.4	2.9	3.6	3.6
95°	0.0	0.7	2.1	3.6	3.6
97.5°	0.0	0.7	2.1	2.9	2.9
100°	0.0	0.7	1.4	2.9	2.9
102.5°	0.0	0.7	1.4	2.1	2.9
105°	0.0	0.7	1.4	2.1	2.1
107.5°	0.0	0.0	1.4	2.1	2.1
110°	0.0	0.0	0.7	1.4	2.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.7	1.4	2.1
115°	0.0	0.0	0.7	1.4	1.4
117.5°	0.0	0.0	0.7	1.4	1.4
120°	0.0	0.0	0.7	1.4	1.4
122.5°	0.0	0.0	0.7	1.4	1.4
125°	0.0	0.0	0.7	1.4	1.4
127.5°	0.0	0.7	0.7	0.7	1.4
130°	0.0	0.7	0.7	0.7	1.4
132.5°	0.7	0.7	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	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.7
160°	0.7	0.7	0.7	0.7	1.4
162.5°	0.7	0.7	0.7	1.4	1.4
165°	0.7	0.7	0.7	1.4	1.4
167.5°	0.7	0.7	0.7	1.4	1.4
170°	0.7	0.7	0.7	1.4	1.4
172.5°	0.7	0.7	0.7	1.4	1.4
175°	0.7	0.7	1.4	1.4	1.4
177.5°	0.7	0.7	1.4	1.4	1.4
180°	1.4	1.4	1.4	1.4	1.4



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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	21.02	22.46	21.39	22.78	23.11	16.38	17.83	16.75	18.15	18.47
	3H	22.27	23.56	22.65	23.89	24.26	17.42	18.71	17.81	19.05	19.42
	4H	22.67	23.87	23.08	24.23	24.62	17.79	19.00	18.20	19.35	19.74
	6H	22.91	24.02	23.33	24.39	24.79	18.05	19.16	18.47	19.54	19.94
	8H	22.96	24.02	23.40	24.41	24.82	18.14	19.20	18.58	19.59	20.00
	12H	22.98	23.99	23.42	24.38	24.82	18.21	19.22	18.64	19.60	20.04
4H	2H	21.03	22.24	21.44	22.59	22.98	16.96	18.16	17.36	18.52	18.90
	3H	22.44	23.43	22.86	23.84	24.25	18.18	19.17	18.60	19.58	19.99
	4H	22.93	23.82	23.37	24.25	24.69	18.64	19.53	19.08	19.95	20.40
	6H	23.28	24.05	23.74	24.50	24.97	19.00	19.77	19.46	20.22	20.69
	8H	23.36	24.08	23.83	24.53	25.01	19.12	19.84	19.59	20.29	20.77
	12H	23.41	24.05	23.90	24.54	25.02	19.22	19.86	19.71	20.35	20.83
8H	4H	22.93	23.64	23.40	24.10	24.57	18.93	19.65	19.40	20.10	20.58
	6H	23.32	23.91	23.82	24.41	24.90	19.38	19.97	19.88	20.47	20.96
	8H	23.44	23.97	23.96	24.49	24.99	19.56	20.09	20.08	20.61	21.10
	12H	23.53	24.00	24.05	24.50	25.07	19.72	20.19	20.24	20.69	21.27
12H	4H	22.90	23.54	23.39	24.03	24.51	18.96	19.60	19.45	20.09	20.57
	6H	23.29	23.82	23.81	24.34	24.84	19.43	19.96	19.95	20.48	20.98
	8H	23.44	23.91	23.96	24.41	24.99	19.66	20.13	20.18	20.63	21.20