

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: P892585

Luminaire Tested: 2MB-3SL-A-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892585
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-3SL-A-UNV-L930
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

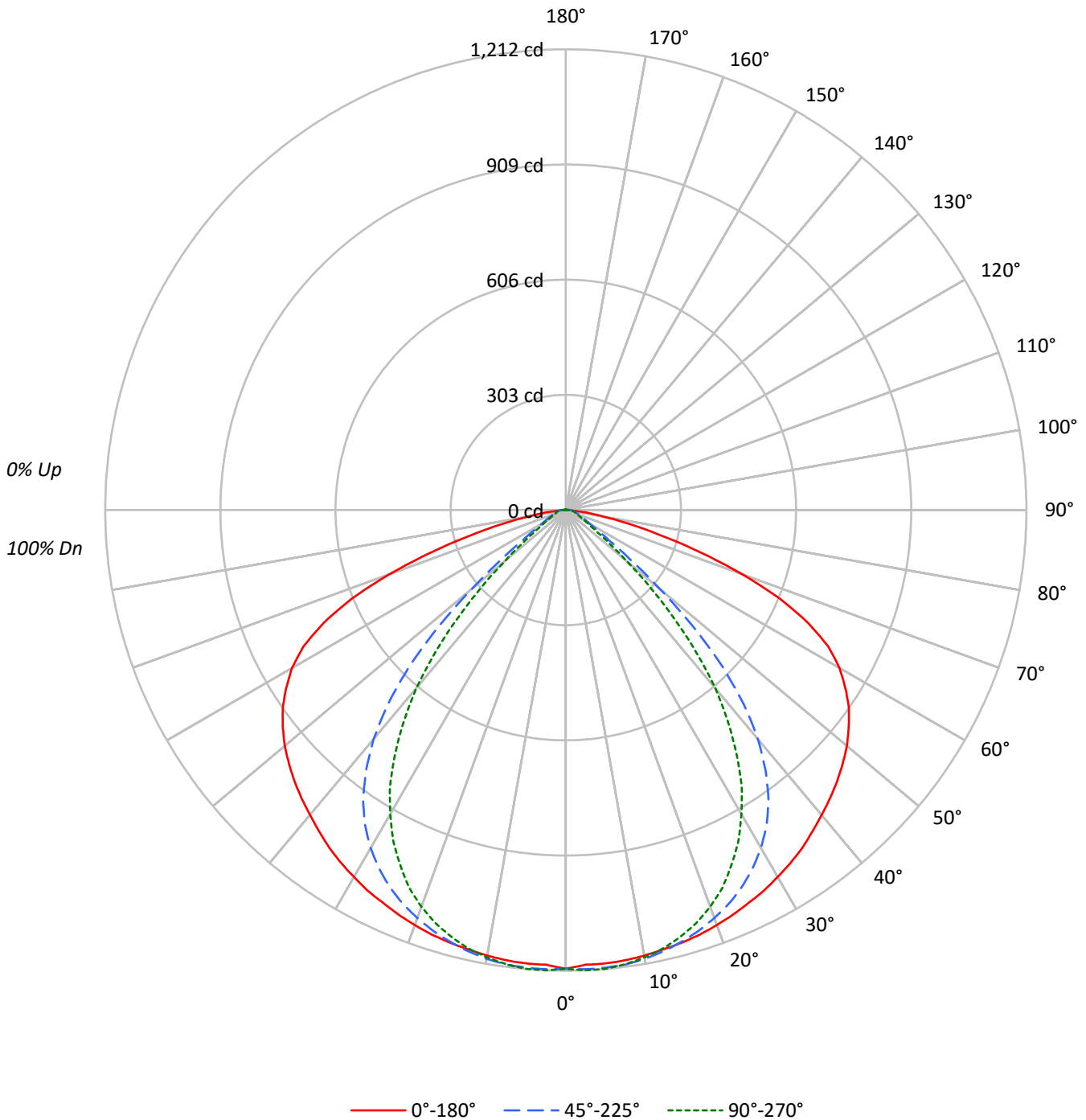
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2531.1 lumens
Efficiency: N/A
Efficacy: 120.5 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): 21
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 8
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	72	69	76	72	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°	24711	24711	24711
5°	24612	24838	24902
10°	24749	24930	24847
15°	24983	24932	24650
20°	25321	24891	24205
25°	25754	24742	23285
30°	26359	24276	21838
35°	27119	23245	19568
40°	27989	21029	16362
45°	29230	16859	11664
50°	30750	10251	6693
55°	32465	4944	3595
60°	34056	3031	2449
65°	34115	2437	2020
70°	29534	2215	1886
75°	20791	2239	2057
80°	12240	2689	2594
85°	5733	4064	3877

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 34536 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	4.5
10°-20°	331.8	13.1
20°-30°	502.2	19.8
30°-40°	580.0	22.9
40°-50°	496.0	19.6
50°-60°	270.9	10.7
60°-70°	136.8	5.4
70°-80°	66.4	2.6
80°-90°	22.8	0.9
90°-100°	5.5	0.2
100°-110°	0.9	0.0
110°-120°	0.3	0.0
120°-130°	0.3	0.0
130°-140°	0.5	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	949.0	37.5
0°-40°	1529.0	60.4
0°-60°	2295.9	90.7
0°-90°	2522.0	99.6
90°-120°	6.8	0.3
90°-150°	8.2	0.3
90°-180°	9.0	0.4
0°-180°	2531.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1197	1207	1208	1213	1212	114
15°	1178	1186	1176	1171	1163	333
25°	1140	1134	1095	1053	1031	527
35°	1085	1048	930	821	783	680
45°	1009	881	582	433	403	780
55°	909	418	138	108	101	811
65°	704	78	50	45	42	682
75°	263	43	28	28	26	291
85°	24	24	17	17	16	38
90°	0	14	11	11	10	1
95°	0	2	5	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	1
145°	1	1	1	1	1	1
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°	1206.8	1206.8	1206.8	1206.8	1206.8
2.5°	1197.4	1206.0	1209.2	1214.7	1212.3
5°	1197.4	1206.8	1208.4	1213.1	1211.5
7.5°	1195.0	1203.7	1206.0	1208.4	1205.2
10°	1190.3	1199.0	1199.0	1199.0	1195.0
12.5°	1184.0	1193.4	1188.7	1185.6	1181.6
15°	1178.5	1185.6	1176.1	1170.6	1162.8
17.5°	1171.4	1176.9	1161.2	1150.2	1139.9
20°	1162.0	1164.3	1142.3	1121.9	1110.8
22.5°	1151.7	1149.4	1121.1	1091.2	1076.2
25°	1139.9	1133.7	1095.1	1052.6	1030.6
27.5°	1128.9	1115.6	1063.6	1006.2	983.4
30°	1114.8	1096.7	1026.7	954.3	923.6
32.5°	1100.6	1073.9	983.4	895.3	861.5
35°	1084.9	1047.9	929.9	821.3	782.8
37.5°	1066.0	1015.6	863.0	741.1	700.2
40°	1047.1	977.9	786.7	648.3	612.1
42.5°	1029.0	935.4	693.1	544.4	509.0
45°	1009.4	881.1	582.2	432.7	402.8
47.5°	988.1	806.4	453.9	328.1	302.9
50°	965.3	709.6	321.8	229.7	210.1
52.5°	938.5	575.9	212.4	155.0	142.4
55°	909.4	417.7	138.5	107.8	100.7
57.5°	872.5	272.2	97.6	80.2	74.7
60°	831.6	162.8	74.0	63.7	59.8
62.5°	778.8	105.4	59.8	53.5	48.8
65°	704.1	77.9	50.3	44.8	41.7
67.5°	609.7	64.5	42.5	38.5	35.4
70°	493.3	56.6	37.0	33.8	31.5
72.5°	372.9	49.6	32.3	29.9	28.3
75°	262.8	43.3	28.3	27.5	26.0
77.5°	172.3	37.8	26.0	25.2	24.4
80°	103.8	32.3	22.8	22.8	22.0
82.5°	58.2	28.3	20.5	20.5	18.9
85°	24.4	24.4	17.3	17.3	16.5
87.5°	7.1	18.9	14.2	14.2	12.6
90°	0.0	14.2	11.0	11.0	10.2
92.5°	0.0	7.9	7.9	8.7	7.9
95°	0.0	1.6	4.7	7.1	6.3
97.5°	0.0	0.8	3.1	5.5	4.7
100°	0.0	0.0	1.6	3.9	3.1
102.5°	0.0	0.0	0.8	2.4	2.4
105°	0.0	0.0	0.8	1.6	0.8
107.5°	0.0	0.0	0.8	0.8	0.8
110°	0.0	0.0	0.8	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.8	0.8	0.8
115°	0.0	0.0	0.0	0.8	0.8
117.5°	0.0	0.0	0.0	0.8	0.0
120°	0.0	0.0	0.0	0.8	0.0
122.5°	0.0	0.0	0.0	0.8	0.0
125°	0.0	0.0	0.8	0.8	0.0
127.5°	0.0	0.0	0.8	0.8	0.8
130°	0.0	0.0	0.8	0.8	0.8
132.5°	0.8	0.0	0.8	0.8	0.8
135°	0.8	0.8	0.8	0.8	0.8
137.5°	0.8	0.8	0.8	0.8	0.8
140°	0.8	0.8	0.8	0.8	0.8
142.5°	0.8	0.8	0.8	0.8	0.8
145°	0.8	0.8	0.8	0.8	0.8
147.5°	0.8	0.8	0.8	0.8	0.8
150°	0.8	0.8	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	1.6	0.8
157.5°	0.8	0.8	0.8	1.6	0.8
160°	0.8	0.8	0.8	1.6	0.8
162.5°	0.8	0.8	1.6	1.6	1.6
165°	0.8	0.8	1.6	1.6	1.6
167.5°	0.8	0.8	1.6	1.6	1.6
170°	0.8	0.8	1.6	1.6	1.6
172.5°	0.8	0.8	1.6	1.6	1.6
175°	0.8	0.8	1.6	1.6	1.6
177.5°	0.8	0.8	1.6	1.6	1.6
180°	1.6	1.6	1.6	1.6	1.6



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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	21.31	22.73	21.68	23.05	23.37	10.43	11.84	10.80	12.16	12.49
	3H	24.09	25.35	24.48	25.69	26.06	11.43	12.69	11.82	13.03	13.40
	4H	24.92	26.10	25.33	26.45	26.84	11.99	13.16	12.40	13.52	13.91
	6H	25.32	26.40	25.74	26.77	27.18	12.69	13.77	13.11	14.15	14.55
	8H	25.39	26.42	25.83	26.82	27.23	13.06	14.09	13.50	14.49	14.90
	12H	25.41	26.39	25.85	26.78	27.22	13.48	14.46	13.92	14.85	15.29
4H	2H	21.13	22.31	21.54	22.66	23.05	10.86	12.03	11.27	12.39	12.78
	3H	23.93	24.89	24.34	25.30	25.71	12.14	13.10	12.56	13.51	13.92
	4H	24.76	25.62	25.20	26.05	26.50	12.87	13.73	13.31	14.16	14.61
	6H	25.23	25.98	25.70	26.43	26.90	13.79	14.53	14.25	14.98	15.46
	8H	25.34	26.04	25.82	26.49	26.97	14.27	14.97	14.74	15.42	15.90
	12H	25.39	26.02	25.89	26.50	26.98	14.82	15.44	15.31	15.93	16.41
8H	4H	24.65	25.35	25.13	25.80	26.28	13.31	14.01	13.79	14.46	14.94
	6H	25.13	25.70	25.63	26.20	26.69	14.43	15.01	14.94	15.51	15.99
	8H	25.26	25.78	25.78	26.30	26.79	15.08	15.59	15.60	16.11	16.61
	12H	25.35	25.81	25.87	26.31	26.89	15.82	16.28	16.33	16.78	17.35
12H	4H	24.62	25.24	25.11	25.72	26.20	13.48	14.10	13.97	14.59	15.07
	6H	25.08	25.60	25.60	26.11	26.61	14.64	15.16	15.17	15.68	16.18
	8H	25.24	25.70	25.75	26.20	26.77	15.38	15.84	15.90	16.34	16.92