

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: P892588

Luminaire Tested: 2MB-3SL-A-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892588
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-L950
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

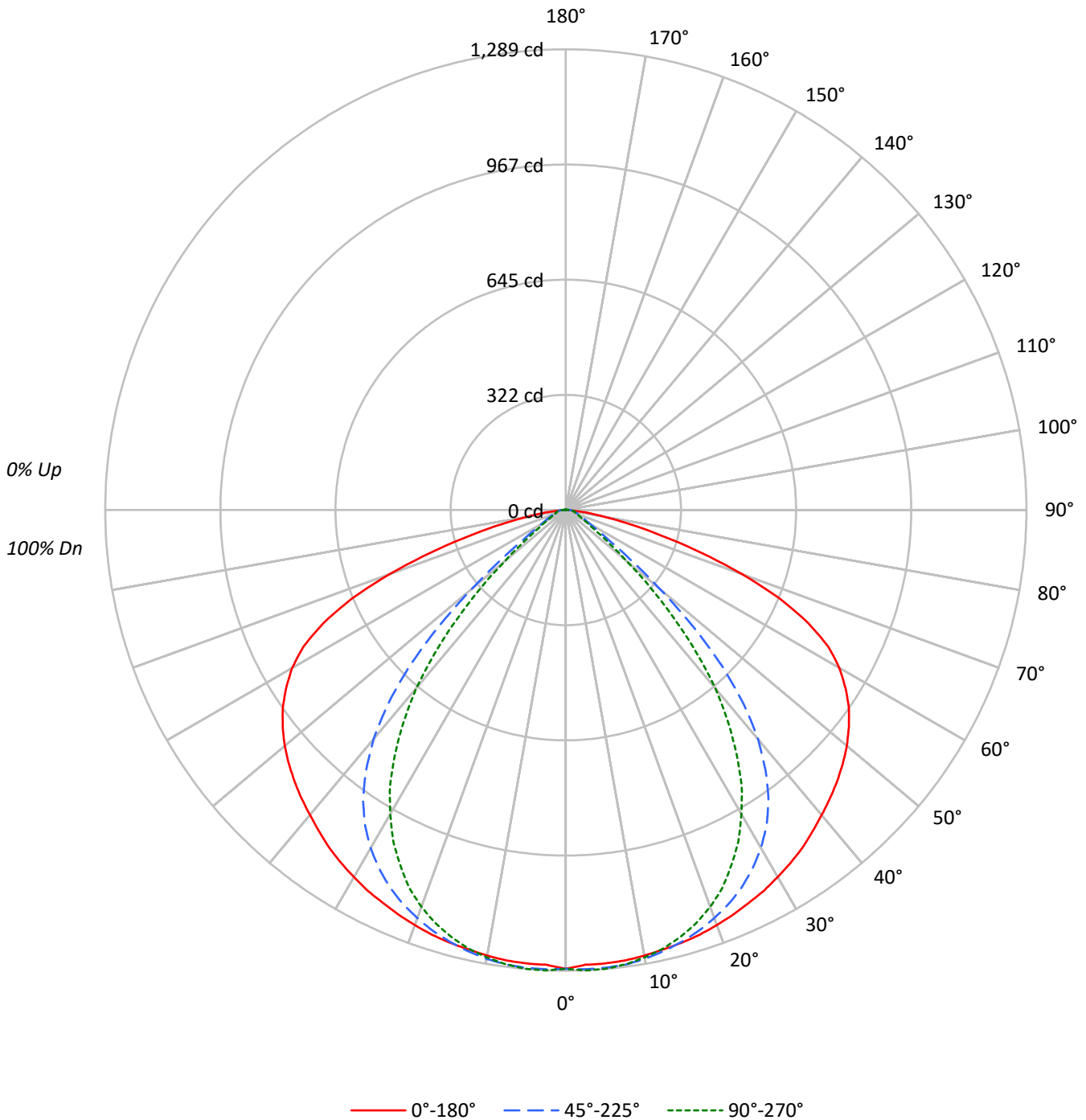
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2691.9 lumens
Efficiency: N/A
Efficacy: 128.2 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	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°	26284	26284	26284
5°	26176	26419	26487
10°	26323	26514	26427
15°	26573	26520	26217
20°	26931	26476	25746
25°	27394	26317	24767
30°	28035	25819	23228
35°	28844	24722	20813
40°	29769	22368	17401
45°	31089	17931	12406
50°	32706	10901	7117
55°	34532	5259	3823
60°	36223	3223	2605
65°	36285	2597	2146
70°	31407	2353	2006
75°	22113	2381	2184
80°	13030	2865	2759
85°	6085	4323	4135

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 36736 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	4.5
10°-20°	352.9	13.1
20°-30°	534.2	19.8
30°-40°	616.9	22.9
40°-50°	527.5	19.6
50°-60°	288.1	10.7
60°-70°	145.6	5.4
70°-80°	70.7	2.6
80°-90°	24.3	0.9
90°-100°	5.9	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°	1009.4	37.5
0°-40°	1626.3	60.4
0°-60°	2441.9	90.7
0°-90°	2682.4	99.6
90°-120°	7.2	0.3
90°-150°	8.5	0.3
90°-180°	9.0	0.3
0°-180°	2691.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1274	1284	1285	1290	1289	121
15°	1254	1261	1251	1245	1237	355
25°	1212	1206	1165	1120	1096	560
35°	1154	1115	989	874	833	723
45°	1074	937	619	460	428	830
55°	967	444	147	115	107	862
65°	749	83	54	48	44	725
75°	280	46	30	29	28	310
85°	26	26	18	18	18	40
90°	0	15	12	12	11	1
95°	0	2	5	8	7	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°	1283.6	1283.6	1283.6	1283.6	1283.6
2.5°	1273.5	1282.7	1286.1	1292.0	1289.4
5°	1273.5	1283.6	1285.3	1290.3	1288.6
7.5°	1271.0	1280.2	1282.7	1285.3	1281.9
10°	1266.0	1275.2	1275.2	1275.2	1271.0
12.5°	1259.3	1269.4	1264.3	1261.0	1256.8
15°	1253.5	1261.0	1251.0	1245.1	1236.7
17.5°	1245.9	1251.8	1235.1	1223.3	1212.5
20°	1235.9	1238.4	1215.0	1193.2	1181.5
22.5°	1225.0	1222.5	1192.4	1160.6	1144.7
25°	1212.5	1205.8	1164.8	1119.6	1096.2
27.5°	1200.7	1186.5	1131.3	1070.2	1045.9
30°	1185.7	1166.4	1092.0	1015.0	982.4
32.5°	1170.6	1142.2	1045.9	952.2	916.2
35°	1153.9	1114.6	989.0	873.6	832.6
37.5°	1133.8	1080.3	917.9	788.2	744.7
40°	1113.7	1040.1	836.8	689.5	651.0
42.5°	1094.5	994.9	737.2	579.0	541.4
45°	1073.6	937.2	619.2	460.2	428.4
47.5°	1051.0	857.7	482.8	348.9	322.2
50°	1026.7	754.8	342.2	244.3	223.4
52.5°	998.3	612.5	225.9	164.8	151.5
55°	967.3	444.3	147.3	114.6	107.1
57.5°	928.0	289.5	103.8	85.3	79.5
60°	884.5	173.2	78.7	67.8	63.6
62.5°	828.4	112.1	63.6	56.9	51.9
65°	748.9	82.8	53.6	47.7	44.3
67.5°	648.5	68.6	45.2	41.0	37.7
70°	524.6	60.2	39.3	36.0	33.5
72.5°	396.6	52.7	34.3	31.8	30.1
75°	279.5	46.0	30.1	29.3	27.6
77.5°	183.2	40.2	27.6	26.8	25.9
80°	110.5	34.3	24.3	24.3	23.4
82.5°	61.9	30.1	21.8	21.8	20.1
85°	25.9	25.9	18.4	18.4	17.6
87.5°	7.5	20.1	15.1	15.1	13.4
90°	0.0	15.1	11.7	11.7	10.9
92.5°	0.0	8.4	8.4	9.2	8.4
95°	0.0	1.7	5.0	7.5	6.7
97.5°	0.0	0.8	3.3	5.9	5.0
100°	0.0	0.0	1.7	4.2	3.3
102.5°	0.0	0.0	0.8	2.5	2.5
105°	0.0	0.0	0.8	1.7	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	1.7	0.8
157.5°	0.8	0.8	0.8	1.7	0.8
160°	0.8	0.8	0.8	1.7	0.8
162.5°	0.8	0.8	1.7	1.7	1.7
165°	0.8	0.8	1.7	1.7	1.7
167.5°	0.8	0.8	1.7	1.7	1.7
170°	0.8	0.8	1.7	1.7	1.7
172.5°	0.8	0.8	1.7	1.7	1.7
175°	0.8	0.8	1.7	1.7	1.7
177.5°	0.8	0.8	1.7	1.7	1.7
180°	1.7	1.7	1.7	1.7	1.7



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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	21.53	22.94	21.90	23.26	23.58	10.64	12.06	11.02	12.38	12.70
	3H	24.31	25.56	24.69	25.90	26.27	11.65	12.91	12.04	13.24	13.62
	4H	25.14	26.31	25.55	26.67	27.06	12.21	13.38	12.61	13.74	14.13
	6H	25.53	26.61	25.95	26.99	27.39	12.91	13.99	13.33	14.36	14.76
	8H	25.61	26.63	26.04	27.03	27.44	13.28	14.31	13.71	14.70	15.11
	12H	25.62	26.61	26.06	27.00	27.43	13.70	14.68	14.14	15.07	15.51
4H	2H	21.35	22.52	21.75	22.88	23.27	11.08	12.25	11.49	12.61	13.00
	3H	24.14	25.10	24.56	25.51	25.92	12.36	13.32	12.77	13.73	14.14
	4H	24.97	25.84	25.41	26.26	26.71	13.09	13.95	13.53	14.38	14.83
	6H	25.45	26.19	25.91	26.64	27.12	14.00	14.75	14.47	15.20	15.67
	8H	25.56	26.25	26.03	26.71	27.19	14.49	15.19	14.96	15.64	16.12
	12H	25.61	26.23	26.10	26.72	27.20	15.04	15.66	15.53	16.14	16.62
8H	4H	24.87	25.56	25.34	26.02	26.49	13.53	14.23	14.00	14.68	15.16
	6H	25.34	25.92	25.85	26.42	26.90	14.65	15.22	15.15	15.72	16.21
	8H	25.47	25.99	26.00	26.51	27.01	15.29	15.81	15.82	16.33	16.83
	12H	25.57	26.03	26.09	26.53	27.10	16.03	16.49	16.55	16.99	17.57
12H	4H	24.83	25.45	25.32	25.94	26.42	13.70	14.32	14.19	14.80	15.28
	6H	25.29	25.81	25.81	26.33	26.83	14.86	15.38	15.38	15.90	16.40
	8H	25.45	25.91	25.97	26.41	26.99	15.60	16.06	16.12	16.56	17.14