

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: P892584

Luminaire Tested: 2MB-3SL-A-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892584
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-L850
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

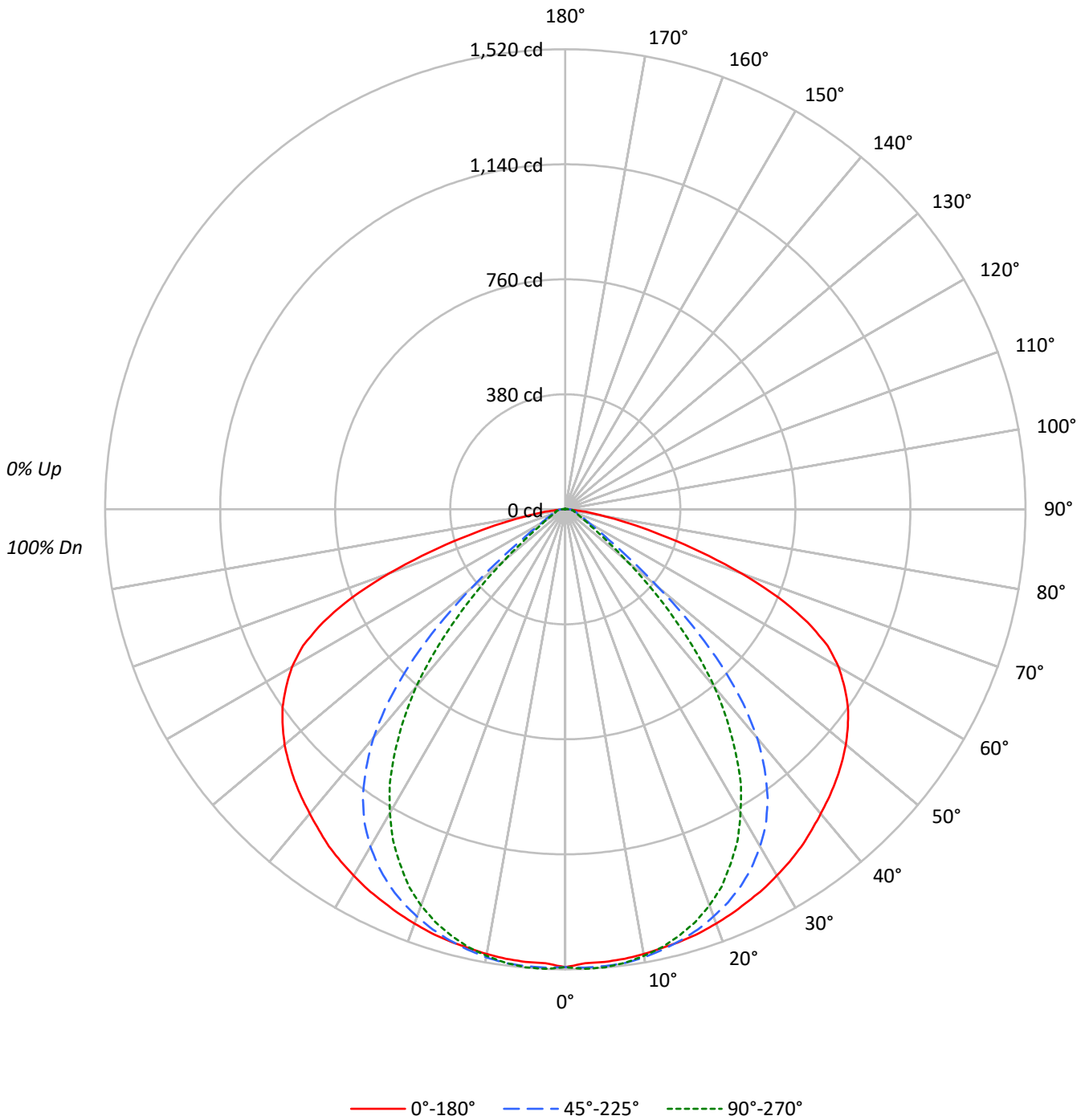
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3173.1 lumens
Efficiency: N/A
Efficacy: 151.1 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 (Ain): 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	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	72	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°	30979	30979	30979
5°	30855	31138	31221
10°	31026	31253	31149
15°	31319	31258	30902
20°	31742	31206	30346
25°	32288	31018	29191
30°	33043	30432	27378
35°	33999	29142	24530
40°	35089	26364	20510
45°	36644	21134	14624
50°	38549	12851	8388
55°	40701	6197	4505
60°	42693	3796	3071
65°	42768	3057	2534
70°	37023	2778	2365
75°	26061	2809	2571
80°	15353	3372	3255
85°	7189	5098	4863

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 43299 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	4.5
10°-20°	416.0	13.1
20°-30°	629.6	19.8
30°-40°	727.1	22.9
40°-50°	621.8	19.6
50°-60°	339.6	10.7
60°-70°	171.6	5.4
70°-80°	83.3	2.6
80°-90°	28.6	0.9
90°-100°	6.9	0.2
100°-110°	1.1	0.0
110°-120°	0.4	0.0
120°-130°	0.4	0.0
130°-140°	0.7	0.0
140°-150°	0.6	0.0
150°-160°	0.5	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-30°	1189.7	37.5
0°-40°	1916.9	60.4
0°-60°	2878.3	90.7
0°-90°	3161.7	99.6
90°-120°	8.5	0.3
90°-150°	10.2	0.3
90°-180°	11.0	0.3
0°-180°	3173.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1501	1513	1515	1521	1519	143
15°	1477	1486	1474	1468	1458	418
25°	1429	1421	1373	1320	1292	661
35°	1360	1314	1166	1030	981	852
45°	1265	1105	730	542	505	978
55°	1140	524	174	135	126	1016
65°	883	98	63	56	52	854
75°	329	54	36	34	32	365
85°	31	31	22	22	21	47
90°	0	18	14	14	13	1
95°	0	2	6	9	8	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°	1512.9	1512.9	1512.9	1512.9	1512.9
2.5°	1501.1	1511.9	1515.9	1522.8	1519.8
5°	1501.1	1512.9	1514.9	1520.8	1518.9
7.5°	1498.1	1509.0	1511.9	1514.9	1511.0
10°	1492.2	1503.1	1503.1	1503.1	1498.1
12.5°	1484.3	1496.2	1490.2	1486.3	1481.4
15°	1477.4	1486.3	1474.5	1467.6	1457.7
17.5°	1468.6	1475.5	1455.7	1441.9	1429.1
20°	1456.7	1459.7	1432.1	1406.4	1392.6
22.5°	1443.9	1440.9	1405.4	1368.0	1349.2
25°	1429.1	1421.2	1372.9	1319.6	1292.0
27.5°	1415.3	1398.5	1333.4	1261.4	1232.8
30°	1397.5	1374.9	1287.1	1196.3	1157.9
32.5°	1379.8	1346.3	1232.8	1122.4	1080.0
35°	1360.1	1313.7	1165.8	1029.7	981.3
37.5°	1336.4	1273.3	1081.9	929.1	877.8
40°	1312.7	1225.9	986.3	812.7	767.3
42.5°	1290.0	1172.7	868.9	682.5	638.1
45°	1265.4	1104.6	729.8	542.4	505.0
47.5°	1238.8	1010.9	569.1	411.3	379.7
50°	1210.1	889.6	403.4	288.0	263.3
52.5°	1176.6	721.9	266.3	194.3	178.5
55°	1140.1	523.7	173.6	135.1	126.2
57.5°	1093.8	341.2	122.3	100.6	93.7
60°	1042.5	204.2	92.7	79.9	75.0
62.5°	976.4	132.2	75.0	67.1	61.1
65°	882.7	97.6	63.1	56.2	52.3
67.5°	764.4	80.9	53.3	48.3	44.4
70°	618.4	71.0	46.4	42.4	39.5
72.5°	467.5	62.1	40.4	37.5	35.5
75°	329.4	54.2	35.5	34.5	32.5
77.5°	216.0	47.3	32.5	31.6	30.6
80°	130.2	40.4	28.6	28.6	27.6
82.5°	73.0	35.5	25.6	25.6	23.7
85°	30.6	30.6	21.7	21.7	20.7
87.5°	8.9	23.7	17.8	17.8	15.8
90°	0.0	17.8	13.8	13.8	12.8
92.5°	0.0	9.9	9.9	10.8	9.9
95°	0.0	2.0	5.9	8.9	7.9
97.5°	0.0	1.0	3.9	6.9	5.9
100°	0.0	0.0	2.0	4.9	3.9
102.5°	0.0	0.0	1.0	3.0	3.0
105°	0.0	0.0	1.0	2.0	1.0
107.5°	0.0	0.0	1.0	1.0	1.0
110°	0.0	0.0	1.0	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	1.0	1.0	1.0
115°	0.0	0.0	0.0	1.0	1.0
117.5°	0.0	0.0	0.0	1.0	0.0
120°	0.0	0.0	0.0	1.0	0.0
122.5°	0.0	0.0	0.0	1.0	0.0
125°	0.0	0.0	1.0	1.0	0.0
127.5°	0.0	0.0	1.0	1.0	1.0
130°	0.0	0.0	1.0	1.0	1.0
132.5°	1.0	0.0	1.0	1.0	1.0
135°	1.0	1.0	1.0	1.0	1.0
137.5°	1.0	1.0	1.0	1.0	1.0
140°	1.0	1.0	1.0	1.0	1.0
142.5°	1.0	1.0	1.0	1.0	1.0
145°	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.0	1.0	1.0	1.0
150°	1.0	1.0	1.0	1.0	1.0
152.5°	1.0	1.0	1.0	1.0	1.0
155°	1.0	1.0	1.0	2.0	1.0
157.5°	1.0	1.0	1.0	2.0	1.0
160°	1.0	1.0	1.0	2.0	1.0
162.5°	1.0	1.0	2.0	2.0	2.0
165°	1.0	1.0	2.0	2.0	2.0
167.5°	1.0	1.0	2.0	2.0	2.0
170°	1.0	1.0	2.0	2.0	2.0
172.5°	1.0	1.0	2.0	2.0	2.0
175°	1.0	1.0	2.0	2.0	2.0
177.5°	1.0	1.0	2.0	2.0	2.0
180°	2.0	2.0	2.0	2.0	2.0



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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	22.10	23.51	22.47	23.83	24.16	11.22	12.63	11.59	12.95	13.28
	3H	24.88	26.13	25.26	26.47	26.84	12.22	13.48	12.61	13.82	14.19
	4H	25.71	26.88	26.12	27.24	27.63	12.78	13.95	13.19	14.31	14.70
	6H	26.10	27.18	26.52	27.56	27.96	13.48	14.56	13.90	14.93	15.34
	8H	26.18	27.20	26.61	27.60	28.01	13.85	14.88	14.29	15.28	15.69
	12H	26.20	27.18	26.63	27.57	28.00	14.27	15.25	14.71	15.64	16.08
4H	2H	21.92	23.09	22.33	23.45	23.84	11.65	12.82	12.06	13.18	13.57
	3H	24.71	25.67	25.13	26.08	26.49	12.93	13.89	13.34	14.30	14.71
	4H	25.54	26.41	25.98	26.83	27.28	13.66	14.52	14.10	14.95	15.40
	6H	26.02	26.76	26.48	27.22	27.69	14.57	15.32	15.04	15.77	16.24
	8H	26.13	26.83	26.60	27.28	27.76	15.06	15.76	15.53	16.21	16.69
	12H	26.18	26.80	26.67	27.29	27.77	15.60	16.22	16.09	16.71	17.19
8H	4H	25.44	26.14	25.91	26.59	27.07	14.10	14.80	14.57	15.25	15.73
	6H	25.91	26.49	26.42	26.99	27.47	15.22	15.79	15.72	16.29	16.78
	8H	26.04	26.56	26.57	27.08	27.58	15.86	16.38	16.38	16.90	17.40
	12H	26.14	26.60	26.66	27.10	27.68	16.60	17.06	17.12	17.56	18.14
12H	4H	25.40	26.02	25.89	26.51	26.99	14.26	14.89	14.76	15.37	15.85
	6H	25.86	26.38	26.38	26.90	27.40	15.43	15.95	15.95	16.47	16.97
	8H	26.02	26.48	26.54	26.98	27.56	16.17	16.63	16.69	17.13	17.70