

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: P892582

Luminaire Tested: 2MB-3SL-A-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892582
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-L835
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

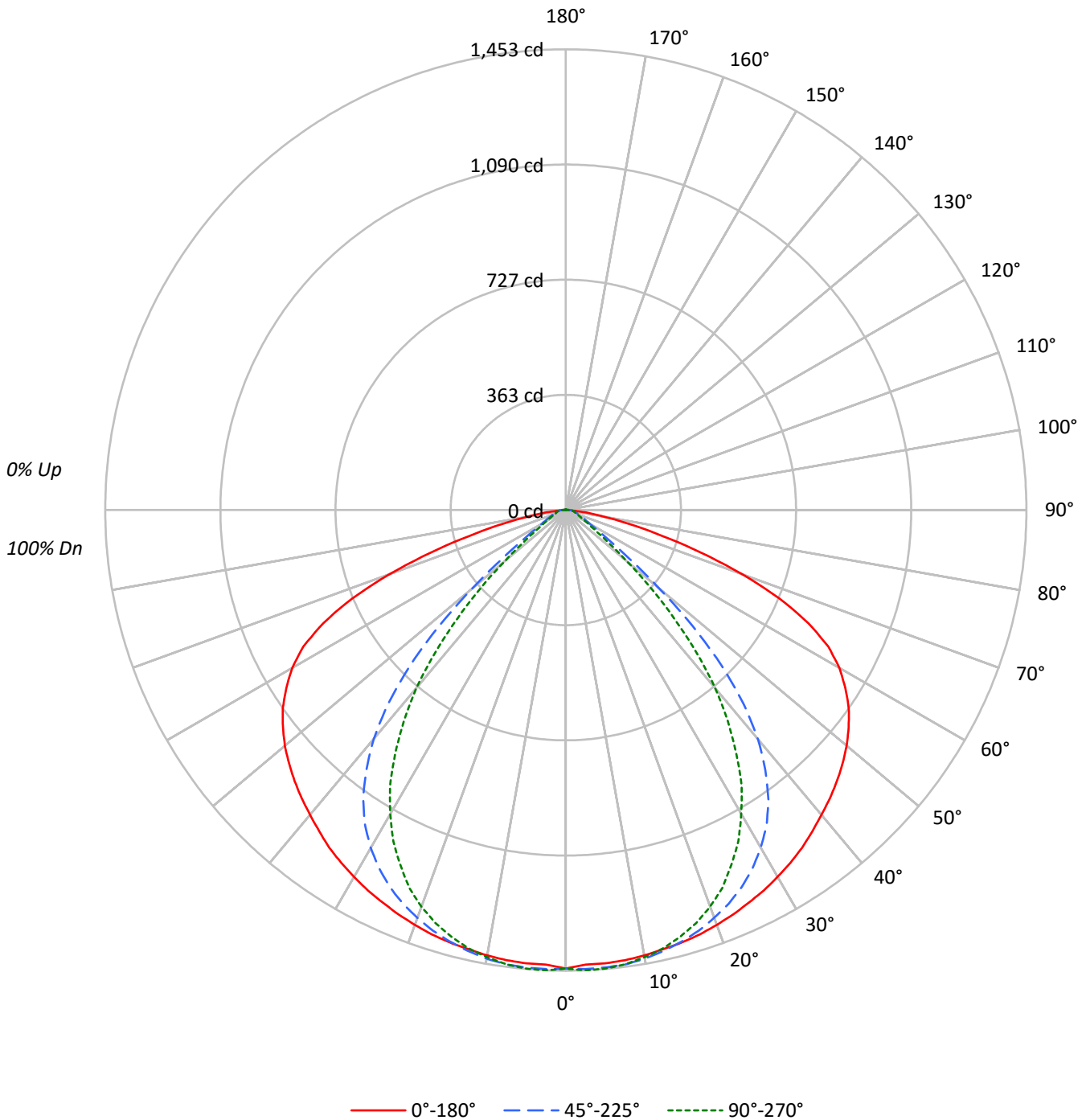
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3032.9 lumens
Efficiency: N/A
Efficacy: 144.4 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°	29613	29613	29613
5°	29494	29765	29841
10°	29658	29874	29775
15°	29937	29878	29538
20°	30341	29829	29008
25°	30862	29649	27903
30°	31586	29089	26169
35°	32499	27854	23447
40°	33541	25201	19607
45°	35025	20201	13978
50°	36851	12284	8018
55°	38906	5923	4309
60°	40810	3628	2932
65°	40883	2922	2423
70°	35389	2652	2257
75°	24913	2682	2460
80°	14669	3219	3113
85°	6860	4863	4652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 41388 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	4.5
10°-20°	397.6	13.1
20°-30°	601.8	19.8
30°-40°	695.0	22.9
40°-50°	594.4	19.6
50°-60°	324.6	10.7
60°-70°	164.0	5.4
70°-80°	79.6	2.6
80°-90°	27.4	0.9
90°-100°	6.6	0.2
100°-110°	1.1	0.0
110°-120°	0.4	0.0
120°-130°	0.4	0.0
130°-140°	0.6	0.0
140°-150°	0.6	0.0
150°-160°	0.5	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	1137.2	37.5
0°-40°	1832.3	60.4
0°-60°	2751.3	90.7
0°-90°	3022.2	99.6
90°-120°	8.1	0.3
90°-150°	9.6	0.3
90°-180°	11.0	0.4
0°-180°	3032.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1435	1446	1448	1454	1452	137
15°	1412	1421	1409	1403	1393	400
25°	1366	1358	1312	1261	1235	631
35°	1300	1256	1114	984	938	814
45°	1210	1056	698	518	483	935
55°	1090	501	166	129	121	971
65°	844	93	60	54	50	817
75°	315	52	34	33	31	349
85°	29	29	21	21	20	45
90°	0	17	13	13	12	1
95°	0	2	6	8	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°	1446.2	1446.2	1446.2	1446.2	1446.2
2.5°	1434.9	1445.2	1449.0	1455.6	1452.8
5°	1434.9	1446.2	1448.1	1453.7	1451.8
7.5°	1432.0	1442.4	1445.2	1448.1	1444.3
10°	1426.4	1436.8	1436.8	1436.8	1432.0
12.5°	1418.8	1430.2	1424.5	1420.7	1416.0
15°	1412.2	1420.7	1409.4	1402.8	1393.4
17.5°	1403.8	1410.4	1391.5	1378.3	1366.0
20°	1392.4	1395.3	1368.9	1344.4	1331.2
22.5°	1380.2	1377.4	1343.4	1307.6	1289.7
25°	1366.0	1358.5	1312.3	1261.4	1235.0
27.5°	1352.8	1336.8	1274.6	1205.8	1178.4
30°	1335.9	1314.2	1230.3	1143.6	1106.8
32.5°	1318.9	1286.9	1178.4	1072.8	1032.3
35°	1300.1	1255.7	1114.3	984.2	938.0
37.5°	1277.4	1217.1	1034.2	888.1	839.0
40°	1254.8	1171.8	942.8	776.8	733.5
42.5°	1233.1	1120.9	830.6	652.4	610.0
45°	1209.5	1055.9	697.6	518.5	482.7
47.5°	1184.1	966.3	544.0	393.1	363.0
50°	1156.8	850.4	385.6	275.3	251.7
52.5°	1124.7	690.1	254.5	185.7	170.6
55°	1089.8	500.6	165.9	129.2	120.7
57.5°	1045.5	326.2	116.9	96.2	89.6
60°	996.5	195.1	88.6	76.4	71.6
62.5°	933.3	126.3	71.6	64.1	58.5
65°	843.8	93.3	60.3	53.7	50.0
67.5°	730.6	77.3	50.9	46.2	42.4
70°	591.1	67.9	44.3	40.5	37.7
72.5°	446.9	59.4	38.7	35.8	33.9
75°	314.9	51.9	33.9	33.0	31.1
77.5°	206.5	45.3	31.1	30.2	29.2
80°	124.4	38.7	27.3	27.3	26.4
82.5°	69.8	33.9	24.5	24.5	22.6
85°	29.2	29.2	20.7	20.7	19.8
87.5°	8.5	22.6	17.0	17.0	15.1
90°	0.0	17.0	13.2	13.2	12.3
92.5°	0.0	9.4	9.4	10.4	9.4
95°	0.0	1.9	5.7	8.5	7.5
97.5°	0.0	0.9	3.8	6.6	5.7
100°	0.0	0.0	1.9	4.7	3.8
102.5°	0.0	0.0	0.9	2.8	2.8
105°	0.0	0.0	0.9	1.9	0.9
107.5°	0.0	0.0	0.9	0.9	0.9
110°	0.0	0.0	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.9	0.9	0.9
115°	0.0	0.0	0.0	0.9	0.9
117.5°	0.0	0.0	0.0	0.9	0.0
120°	0.0	0.0	0.0	0.9	0.0
122.5°	0.0	0.0	0.0	0.9	0.0
125°	0.0	0.0	0.9	0.9	0.0
127.5°	0.0	0.0	0.9	0.9	0.9
130°	0.0	0.0	0.9	0.9	0.9
132.5°	0.9	0.0	0.9	0.9	0.9
135°	0.9	0.9	0.9	0.9	0.9
137.5°	0.9	0.9	0.9	0.9	0.9
140°	0.9	0.9	0.9	0.9	0.9
142.5°	0.9	0.9	0.9	0.9	0.9
145°	0.9	0.9	0.9	0.9	0.9
147.5°	0.9	0.9	0.9	0.9	0.9
150°	0.9	0.9	0.9	0.9	0.9
152.5°	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	0.9	1.9	0.9
157.5°	0.9	0.9	0.9	1.9	0.9
160°	0.9	0.9	0.9	1.9	0.9
162.5°	0.9	0.9	1.9	1.9	1.9
165°	0.9	0.9	1.9	1.9	1.9
167.5°	0.9	0.9	1.9	1.9	1.9
170°	0.9	0.9	1.9	1.9	1.9
172.5°	0.9	0.9	1.9	1.9	1.9
175°	0.9	0.9	1.9	1.9	1.9
177.5°	0.9	0.9	1.9	1.9	1.9
180°	1.9	1.9	1.9	1.9	1.9



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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	21.94	23.35	22.31	23.68	24.00	11.06	12.48	11.44	12.80	13.12
	3H	24.72	25.98	25.11	26.31	26.69	12.07	13.32	12.45	13.66	14.03
	4H	25.55	26.73	25.96	27.08	27.47	12.62	13.80	13.03	14.15	14.54
	6H	25.95	27.03	26.37	27.40	27.81	13.32	14.40	13.74	14.78	15.18
	8H	26.02	27.05	26.46	27.45	27.86	13.69	14.72	14.13	15.12	15.53
	12H	26.04	27.02	26.48	27.41	27.85	14.11	15.09	14.55	15.48	15.92
4H	2H	21.76	22.94	22.17	23.29	23.68	11.50	12.67	11.90	13.03	13.42
	3H	24.55	25.52	24.97	25.93	26.34	12.77	13.73	13.19	14.14	14.55
	4H	25.39	26.25	25.83	26.68	27.13	13.50	14.37	13.94	14.79	15.24
	6H	25.86	26.61	26.33	27.06	27.53	14.42	15.16	14.88	15.62	16.09
	8H	25.97	26.67	26.44	27.12	27.60	14.90	15.60	15.37	16.05	16.53
	12H	26.02	26.64	26.51	27.13	27.61	15.45	16.07	15.94	16.55	17.04
8H	4H	25.28	25.98	25.75	26.43	26.91	13.94	14.64	14.42	15.09	15.57
	6H	25.75	26.33	26.26	26.83	27.32	15.06	15.64	15.57	16.14	16.62
	8H	25.89	26.41	26.41	26.92	27.42	15.70	16.22	16.23	16.74	17.24
	12H	25.98	26.44	26.50	26.94	27.52	16.44	16.90	16.96	17.40	17.98
12H	4H	25.24	25.87	25.73	26.35	26.83	14.11	14.73	14.60	15.22	15.70
	6H	25.71	26.22	26.23	26.74	27.24	15.27	15.79	15.80	16.31	16.81
	8H	25.87	26.33	26.38	26.83	27.40	16.01	16.47	16.53	16.97	17.55