

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: P892659

Luminaire Tested: 2MB-3SL-LVRA-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-3SL-LVRA-UNV-L940
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

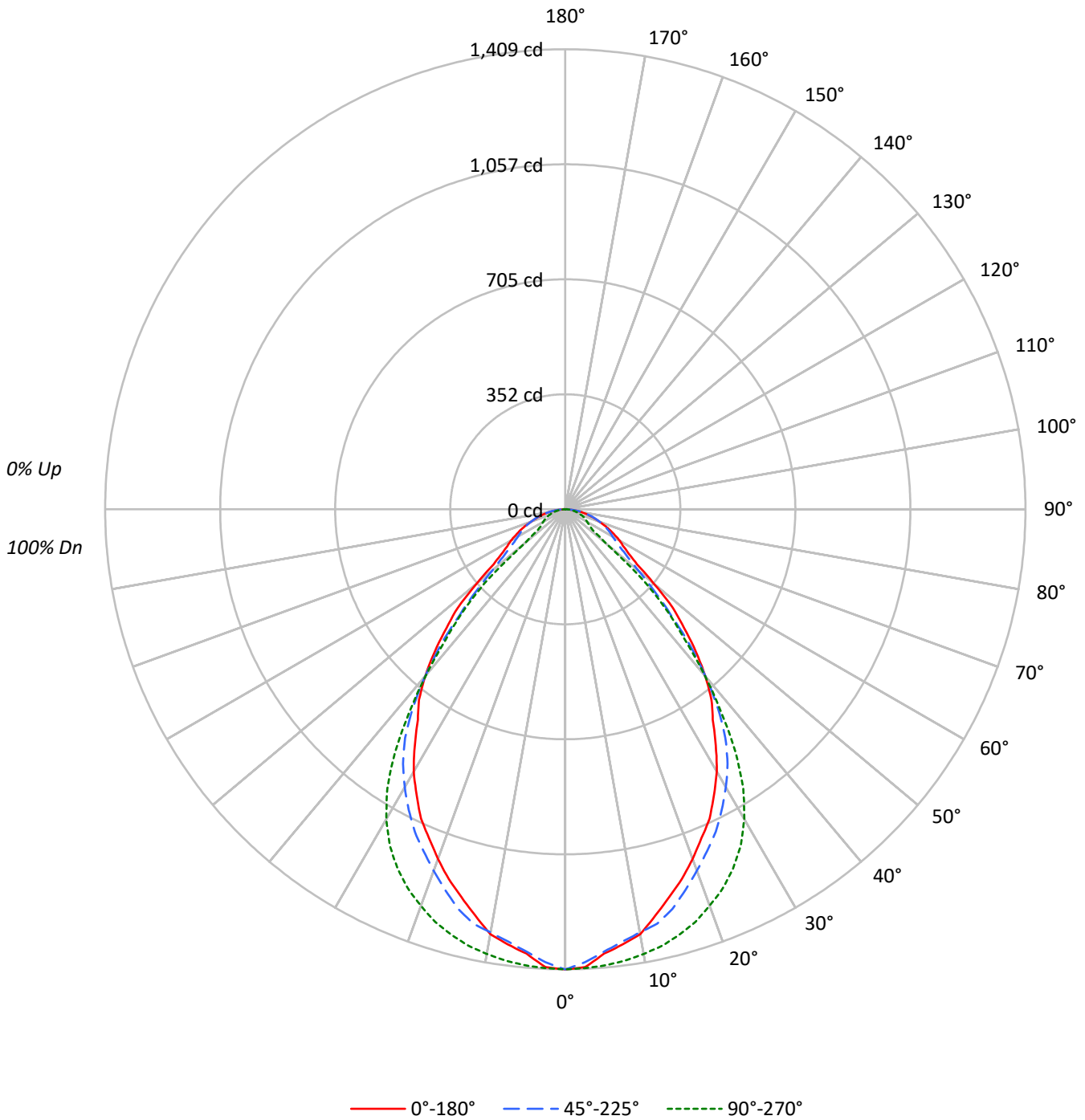
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2287.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' 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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	85	82	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	46	40	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20159	20159	20159
5°	19615	19527	20137
10°	19198	19114	20090
15°	18208	18766	19977
20°	17344	17930	19672
25°	16498	17203	19170
30°	15328	16239	18099
35°	13744	14925	15875
40°	12452	12480	12411
45°	10411	9221	8993
50°	7865	6490	3677
55°	5916	5190	2320
60°	5496	4781	2235
65°	5115	4769	2237
70°	4680	4680	2204
75°	4438	4554	2128
80°	4103	4309	2183
85°	3578	3759	2380

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10654 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	5.7
10°-20°	358.7	15.7
20°-30°	508.6	22.2
30°-40°	524.0	22.9
40°-50°	366.0	16.0
50°-60°	175.6	7.7
60°-70°	123.2	5.4
70°-80°	77.0	3.4
80°-90°	23.8	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	997.4	43.6
0°-40°	1521.4	66.5
0°-60°	2062.9	90.2
0°-90°	2287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1409	1409	1409	1409	1409	
5°	1366	1364	1360	1395	1402	129
15°	1229	1238	1267	1304	1349	346
25°	1045	1056	1090	1164	1214	478
35°	787	808	855	872	909	496
45°	515	527	456	433	444	396
55°	237	226	208	133	93	222
65°	151	141	141	107	66	150
75°	80	79	82	71	38	85
85°	22	22	23	22	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1409.2	1409.2	1409.2	1409.2	1409.2
2.5°	1403.7	1399.3	1388.8	1408.1	1406.6
5°	1365.9	1364.1	1359.8	1395.4	1402.3
7.5°	1344.5	1340.9	1335.8	1375.0	1394.3
10°	1321.6	1326.0	1315.8	1351.8	1383.0
12.5°	1274.4	1286.0	1299.8	1327.8	1369.2
15°	1229.4	1238.5	1267.1	1303.5	1348.9
17.5°	1187.2	1197.8	1222.5	1277.0	1325.3
20°	1139.3	1153.8	1177.8	1247.5	1292.2
22.5°	1089.9	1103.4	1133.5	1208.3	1258.1
25°	1045.2	1055.8	1089.9	1163.6	1214.5
27.5°	986.0	1005.7	1038.0	1109.2	1162.6
30°	927.9	944.6	983.1	1043.1	1095.7
32.5°	857.8	882.2	924.7	970.4	1014.4
35°	787.0	808.4	854.6	872.4	909.0
37.5°	735.4	741.3	767.4	765.2	785.9
40°	666.8	678.4	668.3	641.0	664.6
42.5°	592.7	606.5	565.5	533.9	542.2
45°	514.6	526.6	455.8	432.6	444.5
47.5°	447.1	446.0	367.5	351.9	335.2
50°	353.4	365.0	291.6	262.6	165.2
52.5°	276.0	280.4	240.4	167.8	108.6
55°	237.2	225.5	208.1	133.3	93.0
57.5°	210.6	196.1	184.5	123.8	85.0
60°	192.1	175.8	167.1	117.7	78.1
62.5°	171.1	158.3	155.1	112.2	71.9
65°	151.1	141.3	140.9	107.1	66.1
67.5°	131.1	125.7	127.1	101.0	59.6
70°	111.9	110.8	111.9	93.0	52.7
72.5°	95.5	94.4	97.3	82.8	45.0
75°	80.3	79.2	82.4	71.2	38.5
77.5°	63.9	64.6	66.8	59.2	32.3
80°	49.8	49.8	52.3	46.5	26.5
82.5°	35.6	36.0	37.4	34.1	20.7
85°	21.8	21.8	22.9	22.5	14.5
87.5°	7.3	8.4	9.8	10.5	7.3
90°	0.0	0.0	0.0	0.0	0.0



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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	16.08	17.44	16.45	17.75	18.06	12.41	13.77	12.78	14.08	14.39
	3H	17.82	19.03	18.20	19.36	19.72	14.39	15.60	14.77	15.93	16.29
	4H	18.49	19.62	18.89	19.97	20.35	15.10	16.22	15.50	16.57	16.96
	6H	19.00	20.04	19.41	20.41	20.80	15.62	16.66	16.03	17.03	17.42
	8H	19.17	20.16	19.60	20.55	20.95	15.80	16.79	16.23	17.18	17.58
	12H	19.28	20.22	19.71	20.61	21.04	15.94	16.88	16.37	17.27	17.70
4H	2H	16.61	17.74	17.01	18.09	18.47	14.04	15.16	14.44	15.51	15.90
	3H	18.59	19.52	19.00	19.92	20.33	16.22	17.15	16.63	17.55	17.95
	4H	19.39	20.23	19.83	20.65	21.09	17.10	17.93	17.53	18.35	18.79
	6H	20.04	20.76	20.50	21.21	21.67	17.74	18.46	18.20	18.91	19.37
	8H	20.26	20.93	20.72	21.38	21.85	17.95	18.62	18.41	19.07	19.54
	12H	20.41	21.01	20.90	21.49	21.97	18.10	18.70	18.59	19.19	19.66
8H	4H	19.68	20.35	20.14	20.80	21.27	17.74	18.42	18.21	18.87	19.34
	6H	20.46	21.02	20.96	21.51	21.99	18.60	19.16	19.11	19.66	20.14
	8H	20.76	21.26	21.28	21.78	22.27	18.93	19.43	19.45	19.94	20.44
	12H	21.00	21.44	21.51	21.93	22.50	19.19	19.64	19.71	20.13	20.70
12H	4H	19.69	20.29	20.18	20.78	21.25	17.82	18.42	18.30	18.90	19.37
	6H	20.51	21.01	21.03	21.53	22.02	18.74	19.24	19.26	19.76	20.25
	8H	20.88	21.32	21.39	21.81	22.38	19.15	19.60	19.67	20.09	20.66