

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: P892660

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892660
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-L950
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

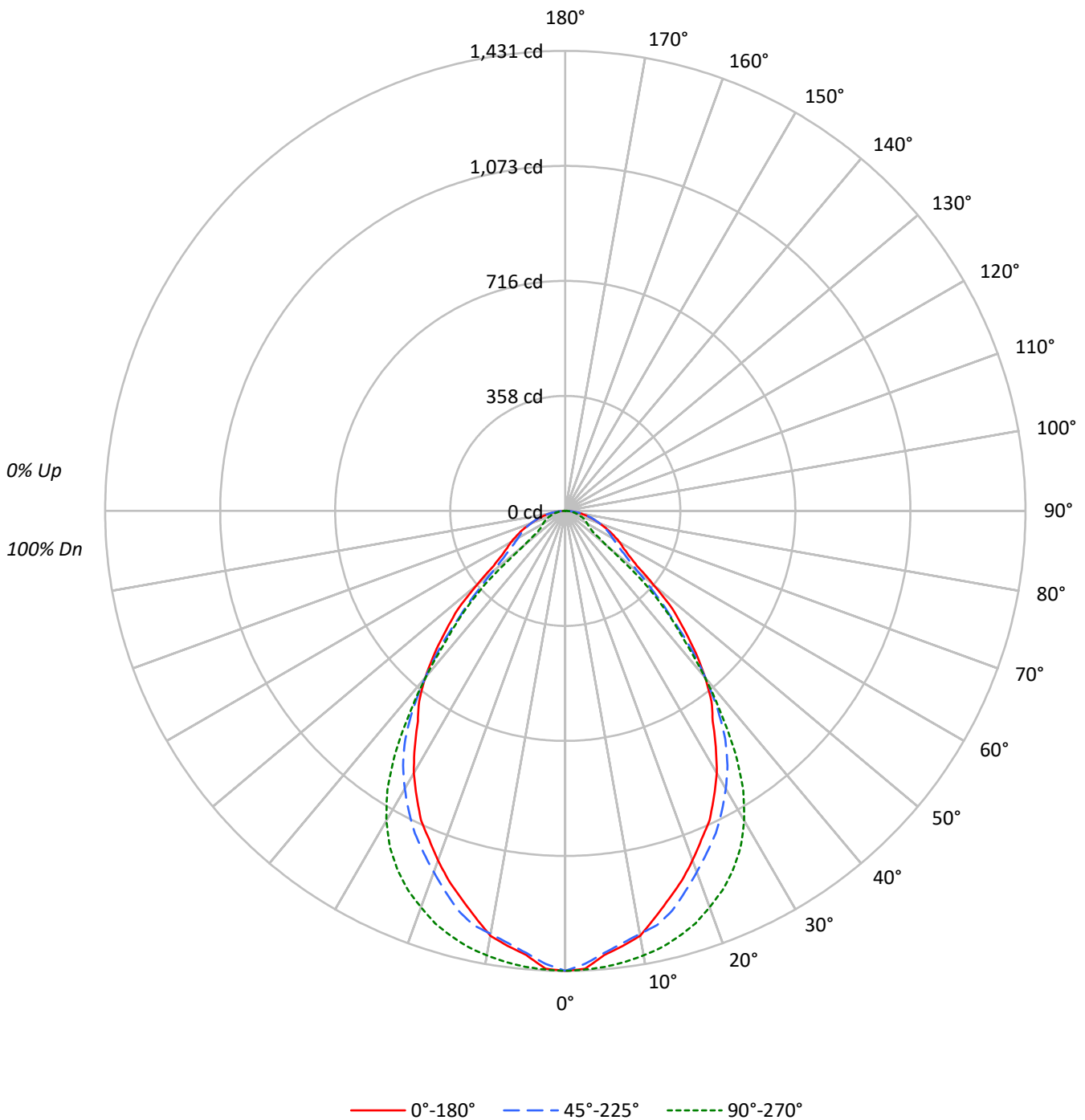
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2322.0 lumens
Efficiency: N/A
Efficacy: 110.6 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

TEST NUMBER: P892660
CATALOG NUMBER: 2MB-3SL-LVRA-UNV-L950

Luminous Intensity Polar Plot





TEST NUMBER: P892660

CATALOG NUMBER: 2MB-3SL-LVRA-UNV-L950

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	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20467	20467	20467
5°	19915	19826	20445
10°	19493	19407	20398
15°	18486	19053	20282
20°	17609	18204	19973
25°	16750	17467	19464
30°	15562	16489	18377
35°	13955	15152	16119
40°	12643	12671	12602
45°	10571	9363	9130
50°	7985	6590	3734
55°	6006	5270	2354
60°	5582	4852	2269
65°	5193	4844	2271
70°	4751	4751	2238
75°	4505	4626	2161
80°	4160	4374	2216
85°	3627	3808	2413

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10818 cd/sqm



TEST NUMBER: P892660
 CATALOG NUMBER: 2MB-3SL-LVRA-UNV-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	5.7
10°-20°	364.1	15.7
20°-30°	516.4	22.2
30°-40°	532.0	22.9
40°-50°	371.6	16.0
50°-60°	178.3	7.7
60°-70°	125.1	5.4
70°-80°	78.2	3.4
80°-90°	24.2	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°	1012.7	43.6
0°-40°	1544.6	66.5
0°-60°	2094.5	90.2
0°-90°	2322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1387	1385	1381	1417	1424	131
15°	1248	1257	1286	1323	1370	351
25°	1061	1072	1107	1181	1233	485
35°	799	821	868	886	923	504
45°	522	535	463	439	451	403
55°	241	229	211	135	94	226
65°	153	143	143	109	67	152
75°	82	80	84	72	39	86
85°	22	22	23	23	15	25
90°	0	0	0	0	0	



TEST NUMBER: P892660

CATALOG NUMBER: 2MB-3SL-LVRA-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1430.7	1430.7	1430.7	1430.7	1430.7
2.5°	1425.2	1420.8	1410.1	1429.6	1428.1
5°	1386.8	1385.0	1380.6	1416.7	1423.7
7.5°	1365.1	1361.4	1356.2	1396.1	1415.6
10°	1341.9	1346.3	1336.0	1372.5	1404.2
12.5°	1293.9	1305.7	1319.7	1348.1	1390.2
15°	1248.2	1257.4	1286.5	1323.4	1369.5
17.5°	1205.4	1216.1	1241.2	1296.5	1345.5
20°	1156.7	1171.5	1195.8	1266.6	1312.0
22.5°	1106.6	1120.2	1150.8	1226.8	1277.3
25°	1061.2	1071.9	1106.6	1181.4	1233.1
27.5°	1001.1	1021.0	1053.9	1126.1	1180.3
30°	942.1	959.1	998.2	1059.0	1112.5
32.5°	871.0	895.7	938.8	985.3	1029.9
35°	799.1	820.8	867.6	885.7	923.0
37.5°	746.7	752.6	779.2	776.9	798.0
40°	677.0	688.8	678.5	650.8	674.8
42.5°	601.8	615.8	574.1	542.1	550.5
45°	522.5	534.7	462.8	439.2	451.3
47.5°	453.9	452.8	373.2	357.3	340.3
50°	358.8	370.6	296.1	266.6	167.8
52.5°	280.2	284.7	244.1	170.4	110.3
55°	240.8	229.0	211.3	135.3	94.4
57.5°	213.9	199.1	187.3	125.7	86.3
60°	195.1	178.5	169.6	119.5	79.3
62.5°	173.7	160.8	157.5	113.9	73.0
65°	153.4	143.4	143.1	108.8	67.1
67.5°	133.1	127.6	129.1	102.5	60.5
70°	113.6	112.5	113.6	94.4	53.5
72.5°	97.0	95.9	98.8	84.1	45.7
75°	81.5	80.4	83.7	72.3	39.1
77.5°	64.9	65.6	67.8	60.1	32.8
80°	50.5	50.5	53.1	47.2	26.9
82.5°	36.1	36.5	38.0	34.7	21.0
85°	22.1	22.1	23.2	22.9	14.7
87.5°	7.4	8.5	10.0	10.7	7.4
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P892660
 CATALOG NUMBER: 2MB-3SL-LVRA-UNV-L950

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	16.14	17.49	16.50	17.80	18.12	12.47	13.82	12.83	14.13	14.45
	3H	17.87	19.08	18.25	19.41	19.77	14.44	15.65	14.82	15.98	16.34
	4H	18.55	19.67	18.95	20.02	20.41	15.15	16.28	15.55	16.63	17.01
	6H	19.05	20.09	19.47	20.46	20.85	15.67	16.71	16.08	17.08	17.47
	8H	19.22	20.21	19.65	20.60	21.00	15.86	16.84	16.28	17.23	17.64
	12H	19.33	20.27	19.76	20.66	21.09	15.99	16.94	16.43	17.32	17.75
4H	2H	16.67	17.79	17.07	18.14	18.53	14.09	15.22	14.49	15.57	15.95
	3H	18.64	19.57	19.06	19.98	20.38	16.27	17.20	16.68	17.60	18.00
	4H	19.45	20.28	19.88	20.70	21.14	17.15	17.98	17.58	18.40	18.84
	6H	20.09	20.81	20.55	21.26	21.72	17.79	18.51	18.25	18.96	19.42
	8H	20.31	20.98	20.78	21.43	21.90	18.00	18.68	18.47	19.12	19.59
	12H	20.46	21.06	20.95	21.54	22.02	18.16	18.76	18.64	19.24	19.71
8H	4H	19.73	20.41	20.20	20.85	21.32	17.80	18.47	18.26	18.92	19.39
	6H	20.51	21.07	21.01	21.56	22.04	18.66	19.21	19.16	19.71	20.19
	8H	20.81	21.31	21.33	21.83	22.32	18.99	19.48	19.51	20.00	20.49
	12H	21.05	21.49	21.56	21.98	22.55	19.25	19.69	19.76	20.18	20.75
12H	4H	19.75	20.35	20.23	20.83	21.30	17.87	18.47	18.35	18.95	19.42
	6H	20.56	21.06	21.08	21.58	22.07	18.79	19.29	19.31	19.81	20.30
	8H	20.93	21.37	21.44	21.86	22.43	19.21	19.65	19.72	20.14	20.71