

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: P892476

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892476
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-2SL-A-UNV-L950
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

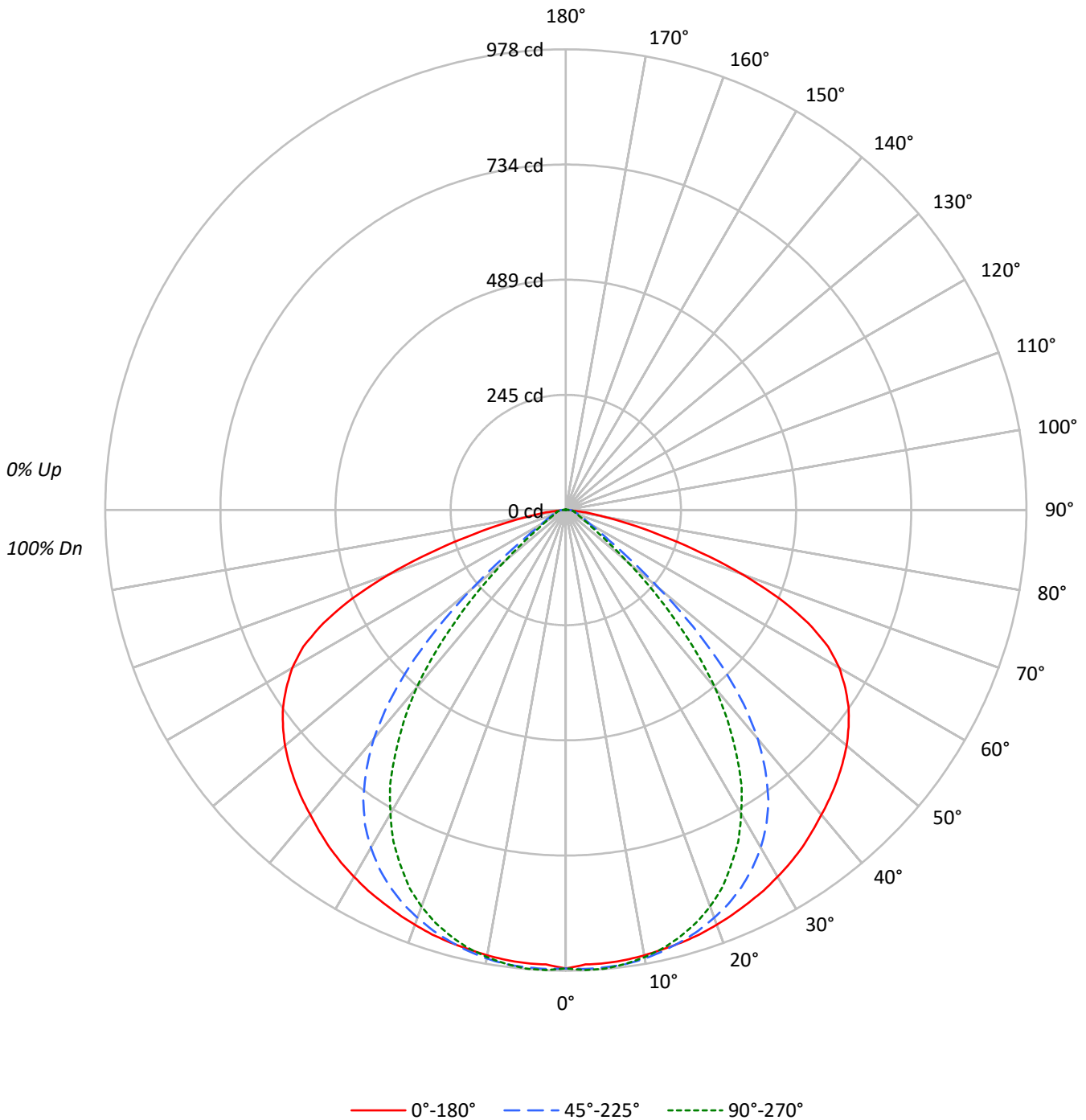
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2040.9 lumens
Efficiency: N/A
Efficacy: 137.0 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): 14.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.92
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P892476
CATALOG NUMBER: 2MB-2SL-A-UNV-L950

Luminous Intensity Polar Plot





TEST NUMBER: P892476

CATALOG NUMBER: 2MB-2SL-A-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	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°	19928	19928	19928
5°	19848	20029	20082
10°	19959	20102	20038
15°	20145	20105	19878
20°	20418	20074	19520
25°	20770	19952	18777
30°	21256	19575	17610
35°	21868	18745	15778
40°	22571	16958	13194
45°	23569	13596	9406
50°	24797	8267	5396
55°	26182	3988	2899
60°	27463	2441	1974
65°	27511	1967	1628
70°	23816	1784	1521
75°	16764	1804	1654
80°	9870	2170	2099
85°	4628	3289	3125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 27853 cd/sqm



TEST NUMBER: P892476
 CATALOG NUMBER: 2MB-2SL-A-UNV-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	4.5
10°-20°	267.6	13.1
20°-30°	405.0	19.8
30°-40°	467.7	22.9
40°-50°	400.0	19.6
50°-60°	218.5	10.7
60°-70°	110.4	5.4
70°-80°	53.6	2.6
80°-90°	18.4	0.9
90°-100°	4.4	0.2
100°-110°	0.7	0.0
110°-120°	0.3	0.0
120°-130°	0.2	0.0
130°-140°	0.4	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	765.3	37.5
0°-40°	1233.0	60.4
0°-60°	1851.4	90.7
0°-90°	2033.7	99.6
90°-120°	5.4	0.3
90°-150°	6.4	0.3
90°-180°	7.0	0.3
0°-180°	2040.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	966	973	974	978	977	92
15°	950	956	948	944	938	269
25°	919	914	883	849	831	425
35°	875	845	750	662	631	548
45°	814	710	470	349	325	629
55°	733	337	112	87	81	654
65°	568	63	41	36	34	550
75°	212	35	23	22	21	235
85°	20	20	14	14	13	30
90°	0	11	9	9	8	1
95°	0	1	4	6	5	0
105°	0	0	1	1	1	0
115°	0	0	0	1	1	0
125°	0	0	1	1	0	0
135°	1	1	1	1	1	0
145°	1	1	1	1	1	0
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



TEST NUMBER: P892476

CATALOG NUMBER: 2MB-2SL-A-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	973.2	973.2	973.2	973.2	973.2
2.5°	965.6	972.5	975.1	979.5	977.6
5°	965.6	973.2	974.4	978.3	977.0
7.5°	963.7	970.6	972.5	974.4	971.9
10°	959.9	966.8	966.8	966.8	963.7
12.5°	954.8	962.4	958.6	956.0	952.9
15°	950.3	956.0	948.4	944.0	937.7
17.5°	944.6	949.1	936.4	927.5	919.3
20°	937.0	938.9	921.2	904.7	895.8
22.5°	928.8	926.9	904.0	879.9	867.9
25°	919.3	914.2	883.1	848.8	831.1
27.5°	910.4	899.6	857.7	811.4	793.0
30°	899.0	884.4	827.9	769.5	744.8
32.5°	887.5	866.0	793.0	722.0	694.7
35°	874.8	845.0	749.9	662.3	631.2
37.5°	859.6	819.0	695.9	597.6	564.6
40°	844.4	788.6	634.4	522.8	493.6
42.5°	829.8	754.3	558.9	439.0	410.5
45°	813.9	710.5	469.5	348.9	324.8
47.5°	796.8	650.3	366.1	264.5	244.2
50°	778.4	572.2	259.5	185.2	169.4
52.5°	756.8	464.4	171.3	125.0	114.8
55°	733.4	336.9	111.7	86.9	81.2
57.5°	703.6	219.5	78.7	64.7	60.3
60°	670.6	131.3	59.6	51.4	48.2
62.5°	628.1	85.0	48.2	43.1	39.3
65°	567.8	62.8	40.6	36.2	33.6
67.5°	491.7	52.0	34.3	31.1	28.5
70°	397.8	45.7	29.8	27.3	25.4
72.5°	300.7	40.0	26.0	24.1	22.8
75°	211.9	34.9	22.8	22.2	20.9
77.5°	138.9	30.5	20.9	20.3	19.7
80°	83.7	26.0	18.4	18.4	17.8
82.5°	46.9	22.8	16.5	16.5	15.2
85°	19.7	19.7	14.0	14.0	13.3
87.5°	5.7	15.2	11.4	11.4	10.2
90°	0.0	11.4	8.9	8.9	8.2
92.5°	0.0	6.3	6.3	7.0	6.3
95°	0.0	1.3	3.8	5.7	5.1
97.5°	0.0	0.6	2.5	4.4	3.8
100°	0.0	0.0	1.3	3.2	2.5
102.5°	0.0	0.0	0.6	1.9	1.9
105°	0.0	0.0	0.6	1.3	0.6
107.5°	0.0	0.0	0.6	0.6	0.6
110°	0.0	0.0	0.6	0.6	0.6



TEST NUMBER: P892476
CATALOG NUMBER: 2MB-2SL-A-UNV-L950

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.6	0.6	0.6
115°	0.0	0.0	0.0	0.6	0.6
117.5°	0.0	0.0	0.0	0.6	0.0
120°	0.0	0.0	0.0	0.6	0.0
122.5°	0.0	0.0	0.0	0.6	0.0
125°	0.0	0.0	0.6	0.6	0.0
127.5°	0.0	0.0	0.6	0.6	0.6
130°	0.0	0.0	0.6	0.6	0.6
132.5°	0.6	0.0	0.6	0.6	0.6
135°	0.6	0.6	0.6	0.6	0.6
137.5°	0.6	0.6	0.6	0.6	0.6
140°	0.6	0.6	0.6	0.6	0.6
142.5°	0.6	0.6	0.6	0.6	0.6
145°	0.6	0.6	0.6	0.6	0.6
147.5°	0.6	0.6	0.6	0.6	0.6
150°	0.6	0.6	0.6	0.6	0.6
152.5°	0.6	0.6	0.6	0.6	0.6
155°	0.6	0.6	0.6	1.3	0.6
157.5°	0.6	0.6	0.6	1.3	0.6
160°	0.6	0.6	0.6	1.3	0.6
162.5°	0.6	0.6	1.3	1.3	1.3
165°	0.6	0.6	1.3	1.3	1.3
167.5°	0.6	0.6	1.3	1.3	1.3
170°	0.6	0.6	1.3	1.3	1.3
172.5°	0.6	0.6	1.3	1.3	1.3
175°	0.6	0.6	1.3	1.3	1.3
177.5°	0.6	0.6	1.3	1.3	1.3
180°	1.3	1.3	1.3	1.3	1.3



TEST NUMBER: P892476
 CATALOG NUMBER: 2MB-2SL-A-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	20.57	21.98	20.94	22.30	22.62	9.68	11.10	10.06	11.42	11.74
	3H	23.35	24.60	23.73	24.94	25.31	10.69	11.95	11.08	12.28	12.66
	4H	24.18	25.35	24.58	25.71	26.10	11.24	12.42	11.65	12.78	13.17
	6H	24.57	25.65	24.99	26.03	26.43	11.95	13.03	12.37	13.40	13.80
	8H	24.65	25.67	25.08	26.07	26.48	12.32	13.34	12.75	13.74	14.15
	12H	24.66	25.64	25.10	26.03	26.47	12.74	13.72	13.18	14.11	14.55
4H	2H	20.39	21.56	20.79	21.92	22.31	10.12	11.29	10.53	11.65	12.04
	3H	23.18	24.14	23.60	24.55	24.96	11.39	12.36	11.81	12.77	13.18
	4H	24.01	24.87	24.45	25.30	25.75	12.13	12.99	12.57	13.41	13.86
	6H	24.48	25.23	24.95	25.68	26.15	13.04	13.79	13.51	14.24	14.71
	8H	24.60	25.29	25.07	25.75	26.22	13.53	14.22	14.00	14.68	15.15
	12H	24.65	25.27	25.14	25.76	26.24	14.07	14.69	14.56	15.18	15.66
8H	4H	23.91	24.60	24.38	25.06	25.53	12.57	13.26	13.04	13.72	14.19
	6H	24.38	24.95	24.88	25.45	25.94	13.69	14.26	14.19	14.76	15.25
	8H	24.51	25.03	25.03	25.55	26.05	14.33	14.85	14.85	15.37	15.86
	12H	24.61	25.07	25.12	25.57	26.14	15.07	15.53	15.59	16.03	16.61
12H	4H	23.87	24.49	24.36	24.98	25.46	12.73	13.35	13.22	13.84	14.32
	6H	24.33	24.85	24.85	25.37	25.87	13.90	14.42	14.42	14.94	15.43
	8H	24.49	24.95	25.01	25.45	26.02	14.64	15.10	15.15	15.60	16.17