

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: P892552

Luminaire Tested: 2MB-2SL-LVRF-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-2SL-LVRF-UNV-L850
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K C
Light Source: -
Ballast/Driver: -

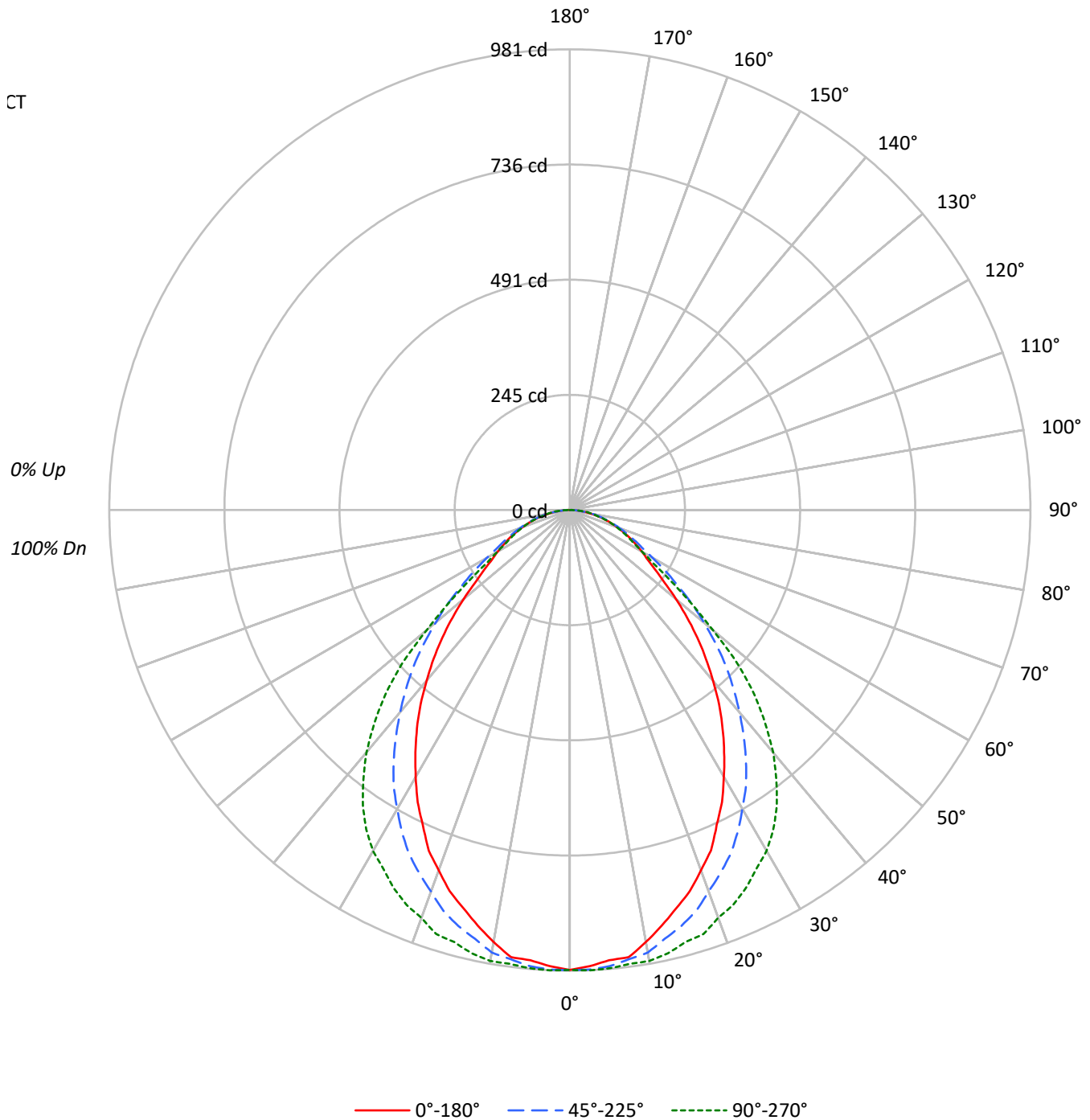
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1985.0 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.26 / 1.21
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
Input Voltage (V): 120
Input Current (Ain): 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: P892552
CATALOG NUMBER: 2MB-2SL-LVRF-UNV-L850

Luminous Intensity Polar Plot





TEST NUMBER: P892552

CATALOG NUMBER: 2MB-2SL-LVRF-UNV-L850

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14011	14011	14011
5°	13817	14000	14064
10°	13569	13899	14162
15°	12990	13579	14102
20°	12430	13159	14070
25°	11687	12773	14017
30°	10841	12141	13846
35°	9911	11428	13421
40°	8857	10497	12577
45°	7765	9523	11244
50°	6568	8299	8844
55°	5554	6976	6480
60°	5076	5828	5101
65°	4810	5118	4627
70°	4505	4731	4429
75°	4201	4455	4250
80°	3880	4177	4103
85°	3414	3709	4465

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11244 cd/sqm



TEST NUMBER: P892552
 CATALOG NUMBER: 2MB-2SL-LVRF-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	4.7
10°-20°	258.5	13.0
20°-30°	372.7	18.8
30°-40°	411.1	20.7
40°-50°	359.8	18.1
50°-60°	236.4	11.9
60°-70°	144.5	7.3
70°-80°	83.6	4.2
80°-90°	25.9	1.3
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°	723.6	36.5
0°-40°	1134.7	57.2
0°-60°	1731.0	87.2
0°-90°	1985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	979	979	979	979	979	
5°	962	972	975	980	979	91
15°	877	892	917	947	952	247
25°	740	766	809	858	888	341
35°	568	592	654	727	768	354
45°	384	407	471	529	556	296
55°	223	234	280	281	260	203
65°	142	142	151	145	137	140
75°	76	76	81	82	77	81
85°	21	21	23	24	27	24
90°	0	0	0	0	0	



TEST NUMBER: P892552

CATALOG NUMBER: 2MB-2SL-LVRF-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	979.4	979.4	979.4	979.4	979.4
2.5°	972.2	977.6	979.4	983.0	981.2
5°	962.2	972.2	974.9	980.3	979.4
7.5°	960.4	956.8	964.9	975.8	974.9
10°	934.1	941.4	956.8	973.1	974.9
12.5°	906.1	917.9	935.0	963.1	966.7
15°	877.1	891.6	916.9	946.8	952.2
17.5°	850.9	865.3	895.2	928.7	946.8
20°	816.5	836.4	864.4	906.1	924.2
22.5°	784.8	801.1	837.3	882.5	909.7
25°	740.4	765.8	809.2	858.1	888.0
27.5°	701.5	725.0	773.9	828.2	860.8
30°	656.3	682.5	735.0	795.7	838.2
32.5°	611.9	636.3	697.9	760.3	806.5
35°	567.5	592.0	654.4	726.9	768.5
37.5°	522.3	547.6	608.3	682.5	722.3
40°	474.3	503.3	562.1	635.4	673.5
42.5°	429.1	456.2	516.0	587.5	616.4
45°	383.8	407.3	470.7	528.6	555.8
47.5°	338.5	361.2	421.8	469.8	485.2
50°	295.1	315.9	372.9	402.8	397.4
52.5°	254.4	273.4	327.7	339.4	324.1
55°	222.7	234.4	279.7	280.6	259.8
57.5°	196.4	205.5	240.8	231.7	209.1
60°	177.4	180.1	203.7	193.7	178.3
62.5°	158.4	160.2	172.9	165.6	153.9
65°	142.1	142.1	151.2	144.8	136.7
67.5°	124.0	124.9	131.3	127.6	121.3
70°	107.7	107.7	113.1	113.1	105.9
72.5°	91.4	91.4	95.9	96.9	92.3
75°	76.0	76.0	80.6	82.4	76.9
77.5°	61.6	61.6	65.2	67.9	61.6
80°	47.1	47.1	50.7	53.4	49.8
82.5°	33.5	34.4	36.2	38.9	38.9
85°	20.8	20.8	22.6	24.4	27.2
87.5°	9.1	10.0	10.9	11.8	13.6
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P892552
 CATALOG NUMBER: 2MB-2SL-LVRF-UNV-L850

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	16.59	18.06	16.95	18.37	18.69	17.33	18.80	17.69	19.12	19.43
	3H	18.18	19.50	18.56	19.83	20.19	18.67	19.99	19.05	20.32	20.68
	4H	18.80	20.04	19.20	20.39	20.77	19.24	20.48	19.64	20.83	21.21
	6H	19.28	20.42	19.69	20.79	21.18	19.70	20.84	20.11	21.21	21.60
	8H	19.44	20.52	19.86	20.91	21.31	19.88	20.97	20.31	21.36	21.76
	12H	19.54	20.58	19.97	20.96	21.39	20.03	21.07	20.46	21.45	21.88
4H	2H	17.21	18.45	17.61	18.80	19.18	17.81	19.05	18.21	19.40	19.77
	3H	19.02	20.04	19.43	20.44	20.84	19.41	20.44	19.82	20.84	21.24
	4H	19.75	20.67	20.19	21.09	21.53	20.14	21.06	20.57	21.48	21.92
	6H	20.35	21.15	20.81	21.60	22.06	20.75	21.55	21.21	22.00	22.46
	8H	20.56	21.31	21.02	21.75	22.22	20.99	21.74	21.46	22.18	22.65
	12H	20.71	21.37	21.19	21.85	22.33	21.19	21.86	21.68	22.34	22.81
8H	4H	20.06	20.81	20.53	21.26	21.73	20.41	21.16	20.87	21.60	22.07
	6H	20.79	21.41	21.29	21.90	22.38	21.17	21.78	21.66	22.28	22.76
	8H	21.07	21.63	21.59	22.14	22.63	21.49	22.05	22.01	22.56	23.05
	12H	21.30	21.79	21.81	22.28	22.85	21.78	22.28	22.30	22.77	23.34
12H	4H	20.10	20.77	20.58	21.25	21.72	20.43	21.10	20.91	21.58	22.05
	6H	20.86	21.41	21.37	21.92	22.41	21.21	21.77	21.73	22.28	22.77
	8H	21.20	21.69	21.71	22.18	22.75	21.60	22.09	22.11	22.59	23.15