

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: P892555

Luminaire Tested: 2MB-2SL-LVRF-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892555
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-L940
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 4000K C
Light Source: -
Ballast/Driver: -

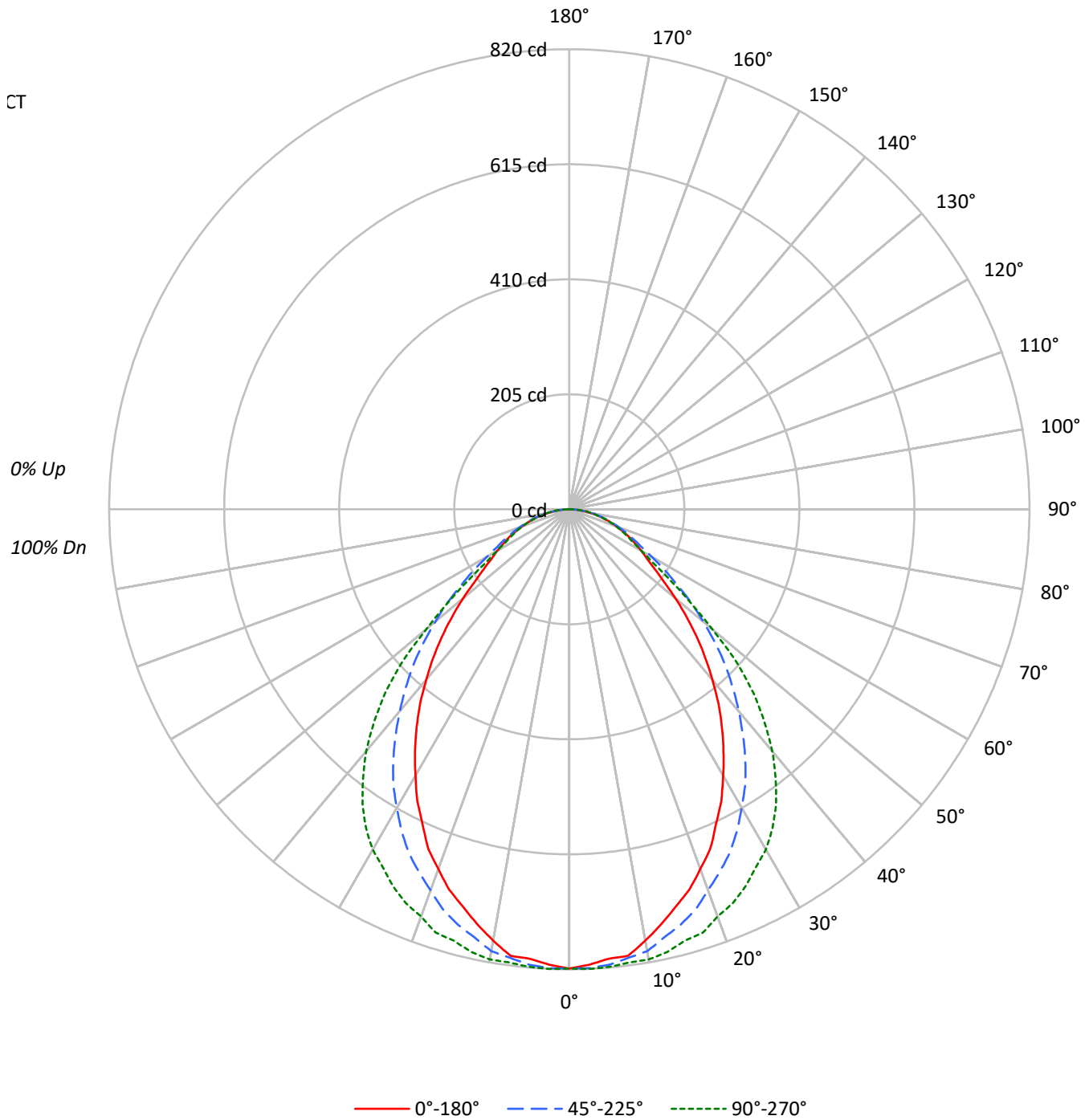
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1659.0 lumens
Efficiency: N/A
Efficacy: 111.3 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 (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: P892555
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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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11710	11710	11710
5°	11548	11701	11755
10°	11341	11615	11836
15°	10857	11350	11787
20°	10389	10999	11759
25°	9767	10675	11714
30°	9060	10147	11571
35°	8283	9553	11217
40°	7403	8773	10512
45°	6490	7959	9397
50°	5488	6937	7391
55°	4641	5831	5415
60°	4243	4870	4263
65°	4021	4275	3866
70°	3764	3957	3702
75°	3510	3720	3554
80°	3238	3493	3427
85°	2856	3102	3726

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9397 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	4.7
10°-20°	216.1	13.0
20°-30°	311.5	18.8
30°-40°	343.6	20.7
40°-50°	300.7	18.1
50°-60°	197.6	11.9
60°-70°	120.8	7.3
70°-80°	69.9	4.2
80°-90°	21.7	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°	604.8	36.5
0°-40°	948.3	57.2
0°-60°	1446.7	87.2
0°-90°	1659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	804	812	815	819	819	76
15°	733	745	766	791	796	206
25°	619	640	676	717	742	285
35°	474	495	547	608	642	296
45°	321	340	393	442	464	247
55°	186	196	234	234	217	170
65°	119	119	126	121	114	117
75°	64	64	67	69	64	67
85°	17	17	19	20	23	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.6	818.6	818.6	818.6	818.6
2.5°	812.5	817.0	818.6	821.6	820.1
5°	804.2	812.5	814.8	819.3	818.6
7.5°	802.7	799.6	806.4	815.5	814.8
10°	780.7	786.8	799.6	813.3	814.8
12.5°	757.3	767.1	781.5	804.9	808.0
15°	733.1	745.2	766.4	791.3	795.9
17.5°	711.1	723.2	748.2	776.2	791.3
20°	682.4	699.0	722.5	757.3	772.4
22.5°	655.9	669.5	699.8	737.6	760.3
25°	618.8	640.0	676.3	717.2	742.1
27.5°	586.3	606.0	646.8	692.2	719.4
30°	548.5	570.4	614.3	665.0	700.5
32.5°	511.4	531.8	583.3	635.5	674.1
35°	474.3	494.8	547.0	607.5	642.3
37.5°	436.5	457.7	508.4	570.4	603.7
40°	396.4	420.6	469.8	531.1	562.9
42.5°	358.6	381.3	431.2	491.0	515.2
45°	320.8	340.4	393.4	441.8	464.5
47.5°	282.9	301.9	352.5	392.6	405.5
50°	246.6	264.0	311.7	336.7	332.1
52.5°	212.6	228.5	273.9	283.7	270.8
55°	186.1	195.9	233.8	234.5	217.1
57.5°	164.2	171.7	201.2	193.7	174.8
60°	148.3	150.5	170.2	161.9	149.0
62.5°	132.4	133.9	144.5	138.4	128.6
65°	118.8	118.8	126.3	121.0	114.2
67.5°	103.6	104.4	109.7	106.7	101.4
70°	90.0	90.0	94.6	94.6	88.5
72.5°	76.4	76.4	80.2	80.9	77.2
75°	63.5	63.5	67.3	68.8	64.3
77.5°	51.4	51.4	54.5	56.7	51.4
80°	39.3	39.3	42.4	44.6	41.6
82.5°	28.0	28.7	30.3	32.5	32.5
85°	17.4	17.4	18.9	20.4	22.7
87.5°	7.6	8.3	9.1	9.8	11.3
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	15.96	17.44	16.33	17.75	18.06	16.71	18.18	17.07	18.50	18.81
	3H	17.56	18.88	17.94	19.21	19.57	18.05	19.37	18.43	19.70	20.06
	4H	18.18	19.41	18.58	19.76	20.14	18.62	19.86	19.02	20.21	20.59
	6H	18.65	19.79	19.06	20.16	20.55	19.08	20.22	19.49	20.58	20.98
	8H	18.81	19.90	19.24	20.29	20.69	19.26	20.34	19.68	20.73	21.14
	12H	18.91	19.95	19.35	20.34	20.77	19.41	20.45	19.84	20.83	21.26
4H	2H	16.59	17.82	16.99	18.17	18.55	17.19	18.42	17.59	18.77	19.15
	3H	18.39	19.42	18.81	19.82	20.22	18.79	19.82	19.20	20.22	20.62
	4H	19.13	20.05	19.56	20.47	20.91	19.52	20.44	19.95	20.86	21.30
	6H	19.73	20.53	20.19	20.97	21.43	20.13	20.93	20.59	21.37	21.83
	8H	19.93	20.68	20.40	21.13	21.59	20.37	21.12	20.83	21.56	22.03
	12H	20.08	20.75	20.56	21.23	21.70	20.57	21.24	21.05	21.72	22.19
8H	4H	19.44	20.19	19.90	20.63	21.10	19.79	20.54	20.25	20.98	21.45
	6H	20.16	20.78	20.66	21.28	21.75	20.54	21.16	21.04	21.65	22.13
	8H	20.45	21.00	20.96	21.51	22.00	20.87	21.42	21.38	21.94	22.42
	12H	20.67	21.16	21.18	21.66	22.22	21.16	21.65	21.67	22.15	22.71
12H	4H	19.47	20.14	19.96	20.62	21.09	19.81	20.47	20.29	20.95	21.43
	6H	20.23	20.79	20.74	21.30	21.79	20.59	21.15	21.10	21.66	22.15
	8H	20.57	21.07	21.08	21.56	22.12	20.98	21.47	21.49	21.96	22.53