

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: P892491

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-2SL-AOL-UNV-L940
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 9
4000K CCT
Light Source: -
Ballast/Driver: -

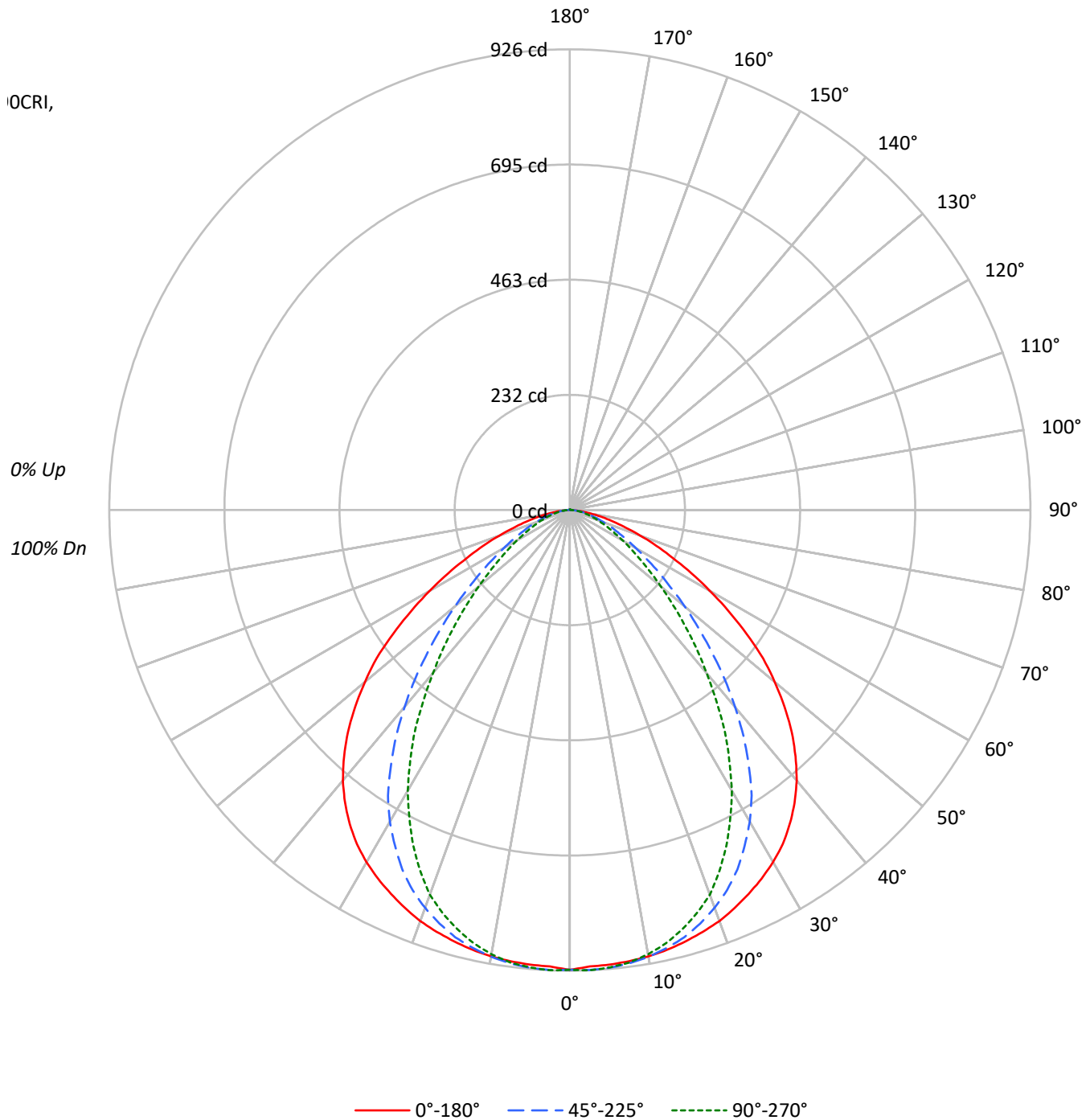
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1883.9 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.08 / 1.18
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	68	68	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	60	60	60	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	53	53	53	52
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	48	48	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	43	43	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	39	39	39	37
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	36	36	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	33	33	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18922	18922	18922
5°	18853	18980	18968
10°	18942	18954	18850
15°	19032	18848	18502
20°	19156	18544	17932
25°	19227	18011	16827
30°	19322	17107	15409
35°	19273	15681	13588
40°	18973	13811	11424
45°	18273	11670	9426
50°	17135	9595	7604
55°	15479	7786	6112
60°	13330	6270	5066
65°	11081	5175	4206
70°	9088	4341	3592
75°	7215	3710	3117
80°	5448	3172	2795
85°	3665	2937	2631

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18273 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	4.7
10°-20°	250.1	13.3
20°-30°	366.3	19.4
30°-40°	399.7	21.2
40°-50°	338.9	18.0
50°-60°	230.4	12.2
60°-70°	130.1	6.9
70°-80°	59.4	3.2
80°-90°	15.5	0.8
90°-100°	2.0	0.1
100°-110°	1.2	0.1
110°-120°	0.6	0.0
120°-130°	0.5	0.0
130°-140°	0.5	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	704.1	37.4
0°-40°	1103.8	58.6
0°-60°	1673.1	88.8
0°-90°	1878.1	99.7
90°-120°	3.8	0.2
90°-150°	5.2	0.3
90°-180°	6.0	0.3
0°-180°	1883.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	917	922	923	925	923	87
15°	898	897	889	879	873	254
25°	851	837	797	761	745	393
35°	771	722	627	562	544	481
45°	631	533	403	342	326	485
55°	434	320	218	181	171	387
65°	229	162	107	91	87	230
75°	91	67	47	41	39	99
85°	16	14	12	12	11	19
90°	0	2	2	3	3	1
95°	0	1	2	3	3	0
105°	0	1	1	2	2	0
115°	0	0	1	1	1	0
125°	0	0	1	1	1	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	924.1	924.1	924.1	924.1	924.1
2.5°	918.4	923.4	925.3	927.8	925.9
5°	917.2	922.2	923.4	925.3	922.8
7.5°	914.7	919.1	919.1	919.1	917.2
10°	911.0	914.1	911.6	909.1	906.6
12.5°	905.3	906.6	901.6	897.2	892.2
15°	897.8	897.2	889.1	879.1	872.8
17.5°	889.1	886.6	871.6	858.5	849.7
20°	879.1	872.8	851.0	830.4	822.9
22.5°	866.0	857.2	826.6	797.9	785.4
25°	851.0	836.6	797.2	761.0	744.8
27.5°	835.4	814.1	761.0	716.0	698.5
30°	817.2	787.9	723.5	671.7	651.7
32.5°	796.6	759.1	680.4	617.9	596.7
35°	771.0	721.6	627.3	561.7	543.6
37.5°	742.3	681.7	573.6	505.5	483.6
40°	709.8	636.0	516.7	448.6	427.4
42.5°	671.7	587.3	460.5	394.2	376.1
45°	631.0	532.9	403.0	342.4	325.5
47.5°	585.4	479.2	350.5	293.0	279.9
50°	537.9	425.5	301.2	251.8	238.7
52.5°	489.8	371.8	255.5	213.7	202.4
55°	433.6	320.5	218.1	181.2	171.2
57.5°	378.6	274.9	182.4	151.8	145.6
60°	325.5	231.2	153.1	128.1	123.7
62.5°	276.2	193.7	128.7	108.1	102.5
65°	228.7	162.4	106.8	91.2	86.8
67.5°	188.1	132.5	89.3	75.6	71.9
70°	151.8	106.8	72.5	61.9	60.0
72.5°	118.1	85.6	59.4	51.2	49.4
75°	91.2	66.9	46.9	41.2	39.4
77.5°	66.9	50.0	36.2	31.9	30.6
80°	46.2	35.6	26.9	24.4	23.7
82.5°	29.4	23.1	19.4	17.5	17.5
85°	15.6	14.4	12.5	11.9	11.2
87.5°	6.2	6.9	6.9	6.9	6.2
90°	0.0	1.9	2.5	3.1	3.1
92.5°	0.0	1.2	2.5	3.1	3.1
95°	0.0	0.6	1.9	3.1	3.1
97.5°	0.0	0.6	1.9	2.5	2.5
100°	0.0	0.6	1.2	2.5	2.5
102.5°	0.0	0.6	1.2	1.9	2.5
105°	0.0	0.6	1.2	1.9	1.9
107.5°	0.0	0.0	1.2	1.9	1.9
110°	0.0	0.0	0.6	1.2	1.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.6	1.2	1.9
115°	0.0	0.0	0.6	1.2	1.2
117.5°	0.0	0.0	0.6	1.2	1.2
120°	0.0	0.0	0.6	1.2	1.2
122.5°	0.0	0.0	0.6	1.2	1.2
125°	0.0	0.0	0.6	1.2	1.2
127.5°	0.0	0.6	0.6	0.6	1.2
130°	0.0	0.6	0.6	0.6	1.2
132.5°	0.6	0.6	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	0.6	0.6
157.5°	0.6	0.6	0.6	0.6	0.6
160°	0.6	0.6	0.6	0.6	1.2
162.5°	0.6	0.6	0.6	1.2	1.2
165°	0.6	0.6	0.6	1.2	1.2
167.5°	0.6	0.6	0.6	1.2	1.2
170°	0.6	0.6	0.6	1.2	1.2
172.5°	0.6	0.6	0.6	1.2	1.2
175°	0.6	0.6	1.2	1.2	1.2
177.5°	0.6	0.6	1.2	1.2	1.2
180°	1.2	1.2	1.2	1.2	1.2



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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	20.55	21.99	20.92	22.31	22.64	15.91	17.36	16.28	17.68	18.00
	3H	21.80	23.09	22.19	23.43	23.80	16.96	18.24	17.34	18.58	18.95
	4H	22.20	23.41	22.61	23.76	24.15	17.32	18.53	17.73	18.88	19.27
	6H	22.44	23.55	22.86	23.93	24.33	17.58	18.69	18.00	19.07	19.47
	8H	22.50	23.55	22.93	23.95	24.36	17.68	18.73	18.11	19.13	19.54
	12H	22.52	23.52	22.95	23.91	24.35	17.74	18.75	18.18	19.14	19.57
4H	2H	20.57	21.77	20.97	22.13	22.51	16.49	17.69	16.89	18.05	18.43
	3H	21.97	22.97	22.39	23.37	23.78	17.72	18.71	18.13	19.11	19.52
	4H	22.47	23.36	22.91	23.78	24.23	18.17	19.06	18.61	19.49	19.93
	6H	22.81	23.58	23.27	24.03	24.50	18.53	19.30	19.00	19.75	20.22
	8H	22.89	23.61	23.37	24.06	24.54	18.66	19.37	19.13	19.83	20.30
	12H	22.94	23.58	23.43	24.07	24.55	18.76	19.40	19.24	19.88	20.36
8H	4H	22.46	23.18	22.93	23.63	24.11	18.47	19.18	18.94	19.64	20.11
	6H	22.85	23.44	23.35	23.94	24.43	18.91	19.50	19.41	20.00	20.49
	8H	22.97	23.50	23.49	24.02	24.52	19.09	19.62	19.61	20.14	20.64
	12H	23.06	23.53	23.58	24.03	24.61	19.25	19.73	19.77	20.22	20.80
12H	4H	22.43	23.07	22.92	23.56	24.04	18.50	19.14	18.98	19.62	20.10
	6H	22.82	23.35	23.34	23.87	24.37	18.96	19.49	19.48	20.01	20.51
	8H	22.98	23.45	23.49	23.95	24.52	19.19	19.66	19.71	20.16	20.74