

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: P892601

Luminaire Tested: 2MB-3SL-AOL-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892601
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-3SL-AOL-UNV-L930
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 9
3000K CCT
Light Source: -
Ballast/Driver: -

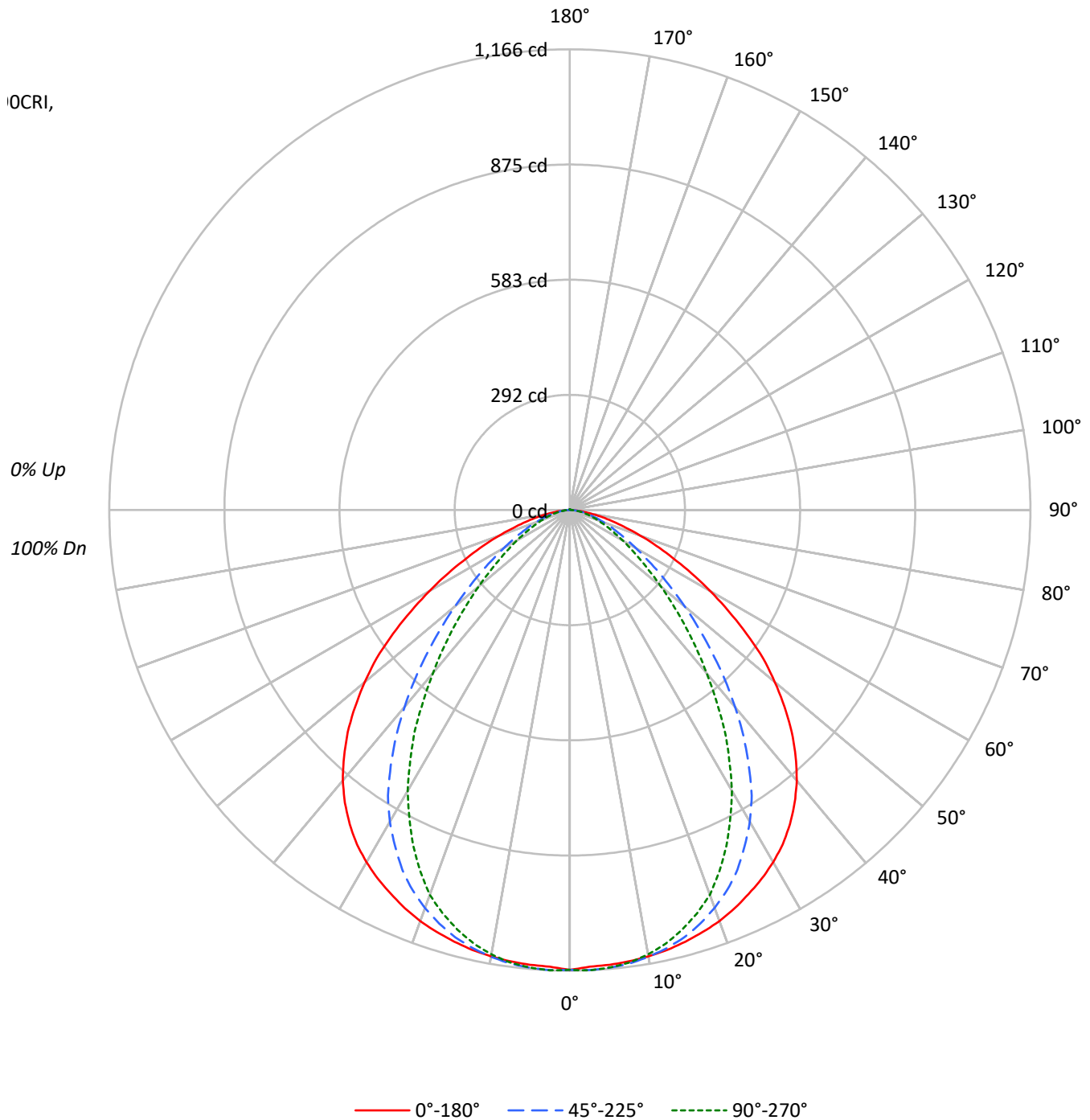
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2373.1 lumens
Efficiency: N/A
Efficacy: 113.0 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): 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

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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	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°	23833	23833	23833
5°	23747	23907	23891
10°	23857	23874	23743
15°	23974	23738	23306
20°	24129	23355	22584
25°	24216	22688	21195
30°	24337	21547	19407
35°	24275	19750	17116
40°	23897	17396	14389
45°	23016	14699	11873
50°	21585	12083	9576
55°	19499	9807	7697
60°	16791	7896	6380
65°	13954	6522	5301
70°	11447	5466	4520
75°	9090	4668	3924
80°	6863	3986	3526
85°	4628	3689	3336

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23016 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	4.7
10°-20°	315.0	13.3
20°-30°	461.4	19.4
30°-40°	503.5	21.2
40°-50°	426.9	18.0
50°-60°	290.2	12.2
60°-70°	163.9	6.9
70°-80°	74.8	3.2
80°-90°	19.5	0.8
90°-100°	2.5	0.1
100°-110°	1.5	0.1
110°-120°	0.8	0.0
120°-130°	0.7	0.0
130°-140°	0.6	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	886.9	37.4
0°-40°	1390.3	58.6
0°-60°	2107.4	88.8
0°-90°	2365.6	99.7
90°-120°	4.8	0.2
90°-150°	6.7	0.3
90°-180°	7.0	0.3
0°-180°	2373.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1155	1162	1163	1166	1162	110
15°	1131	1130	1120	1107	1099	320
25°	1072	1054	1004	958	938	495
35°	971	909	790	708	685	606
45°	795	671	508	431	410	610
55°	546	404	275	228	216	487
65°	288	205	135	115	109	290
75°	115	84	59	52	50	124
85°	20	18	16	15	14	24
90°	0	2	3	4	4	1
95°	0	1	2	4	4	0
105°	0	1	2	2	2	0
115°	0	0	1	2	2	0
125°	0	0	1	2	2	0
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	0
165°	1	1	1	2	2	0
175°	1	1	2	2	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.9	1163.9	1163.9	1163.9	1163.9
2.5°	1156.8	1163.1	1165.5	1168.6	1166.3
5°	1155.3	1161.6	1163.1	1165.5	1162.3
7.5°	1152.1	1157.6	1157.6	1157.6	1155.3
10°	1147.4	1151.3	1148.2	1145.0	1141.9
12.5°	1140.3	1141.9	1135.6	1130.1	1123.8
15°	1130.9	1130.1	1119.8	1107.3	1099.4
17.5°	1119.8	1116.7	1097.8	1081.3	1070.3
20°	1107.3	1099.4	1071.8	1045.9	1036.4
22.5°	1090.7	1079.7	1041.2	1005.0	989.2
25°	1071.8	1053.7	1004.2	958.5	938.1
27.5°	1052.2	1025.4	958.5	901.9	879.8
30°	1029.3	992.4	911.3	846.0	820.8
32.5°	1003.4	956.2	857.0	778.3	751.5
35°	971.1	908.9	790.1	707.5	684.7
37.5°	934.9	858.6	722.4	636.7	609.1
40°	894.0	801.1	650.8	565.0	538.3
42.5°	846.0	739.7	580.0	496.6	473.8
45°	794.8	671.3	507.6	431.3	410.0
47.5°	737.4	603.6	441.5	369.1	352.6
50°	677.6	535.9	379.3	317.1	300.6
52.5°	617.0	468.2	321.9	269.1	255.0
55°	546.2	403.7	274.7	228.2	215.6
57.5°	476.9	346.3	229.8	191.2	183.4
60°	410.0	291.2	192.8	161.3	155.8
62.5°	347.8	244.0	162.1	136.1	129.1
65°	288.0	204.6	134.6	114.9	109.4
67.5°	236.9	166.8	112.5	95.2	90.5
70°	191.2	134.6	91.3	77.9	75.5
72.5°	148.7	107.8	74.8	64.5	62.2
75°	114.9	84.2	59.0	51.9	49.6
77.5°	84.2	63.0	45.6	40.1	38.6
80°	58.2	44.9	33.8	30.7	29.9
82.5°	37.0	29.1	24.4	22.0	22.0
85°	19.7	18.1	15.7	15.0	14.2
87.5°	7.9	8.7	8.7	8.7	7.9
90°	0.0	2.4	3.1	3.9	3.9
92.5°	0.0	1.6	3.1	3.9	3.9
95°	0.0	0.8	2.4	3.9	3.9
97.5°	0.0	0.8	2.4	3.1	3.1
100°	0.0	0.8	1.6	3.1	3.1
102.5°	0.0	0.8	1.6	2.4	3.1
105°	0.0	0.8	1.6	2.4	2.4
107.5°	0.0	0.0	1.6	2.4	2.4
110°	0.0	0.0	0.8	1.6	2.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.8	1.6	2.4
115°	0.0	0.0	0.8	1.6	1.6
117.5°	0.0	0.0	0.8	1.6	1.6
120°	0.0	0.0	0.8	1.6	1.6
122.5°	0.0	0.0	0.8	1.6	1.6
125°	0.0	0.0	0.8	1.6	1.6
127.5°	0.0	0.8	0.8	0.8	1.6
130°	0.0	0.8	0.8	0.8	1.6
132.5°	0.8	0.8	0.8	0.8	0.8
135°	0.8	0.8	0.8	0.8	0.8
137.5°	0.8	0.8	0.8	0.8	0.8
140°	0.8	0.8	0.8	0.8	0.8
142.5°	0.8	0.8	0.8	0.8	0.8
145°	0.8	0.8	0.8	0.8	0.8
147.5°	0.8	0.8	0.8	0.8	0.8
150°	0.8	0.8	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	1.6
162.5°	0.8	0.8	0.8	1.6	1.6
165°	0.8	0.8	0.8	1.6	1.6
167.5°	0.8	0.8	0.8	1.6	1.6
170°	0.8	0.8	0.8	1.6	1.6
172.5°	0.8	0.8	0.8	1.6	1.6
175°	0.8	0.8	1.6	1.6	1.6
177.5°	0.8	0.8	1.6	1.6	1.6
180°	1.6	1.6	1.6	1.6	1.6



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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	21.35	22.80	21.72	23.12	23.44	16.71	18.16	17.09	18.48	18.80
	3H	22.60	23.89	22.99	24.23	24.60	17.75	19.04	18.14	19.38	19.75
	4H	23.00	24.21	23.41	24.56	24.95	18.12	19.33	18.53	19.68	20.07
	6H	23.24	24.35	23.66	24.73	25.13	18.38	19.49	18.80	19.87	20.27
	8H	23.30	24.35	23.73	24.75	25.16	18.48	19.53	18.91	19.93	20.34
	12H	23.32	24.33	23.75	24.71	25.15	18.54	19.55	18.98	19.94	20.37
4H	2H	21.37	22.57	21.77	22.93	23.32	17.29	18.49	17.69	18.85	19.24
	3H	22.78	23.77	23.19	24.17	24.58	18.52	19.51	18.93	19.91	20.32
	4H	23.27	24.16	23.71	24.58	25.03	18.97	19.86	19.41	20.29	20.73
	6H	23.61	24.38	24.08	24.83	25.30	19.33	20.10	19.80	20.55	21.02
	8H	23.70	24.41	24.17	24.87	25.34	19.46	20.17	19.93	20.63	21.10
	12H	23.74	24.38	24.23	24.87	25.35	19.56	20.20	20.05	20.68	21.16
8H	4H	23.26	23.98	23.73	24.43	24.91	19.27	19.98	19.74	20.44	20.91
	6H	23.65	24.24	24.16	24.74	25.23	19.71	20.30	20.21	20.80	21.29
	8H	23.77	24.31	24.30	24.82	25.32	19.89	20.42	20.41	20.94	21.44
	12H	23.87	24.34	24.38	24.83	25.41	20.05	20.53	20.57	21.02	21.60
12H	4H	23.23	23.87	23.72	24.36	24.84	19.30	19.94	19.79	20.42	20.90
	6H	23.62	24.16	24.14	24.67	25.17	19.76	20.29	20.28	20.81	21.31
	8H	23.78	24.25	24.30	24.75	25.32	19.99	20.46	20.51	20.96	21.54