

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: P892604

Luminaire Tested: 2MB-3SL-AOL-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892604
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-L950
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 9
5000K CCT
Light Source: -
Ballast/Driver: -

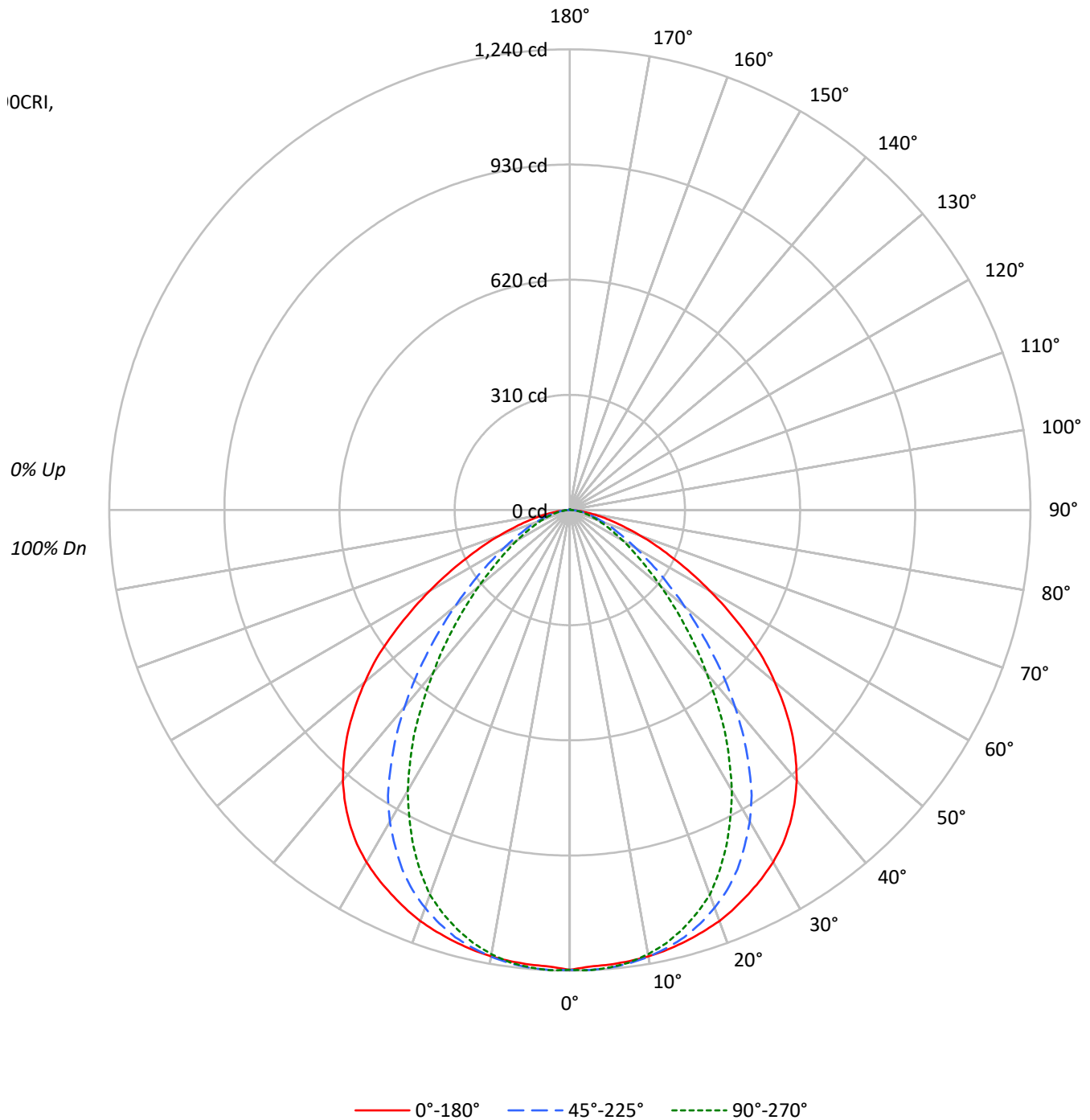
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2522.9 lumens
Efficiency: N/A
Efficacy: 120.1 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76		
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58		
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	52		
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46		
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41		
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37		
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34		
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25340	25340	25340
5°	25247	25420	25402
10°	25365	25383	25244
15°	25487	25239	24779
20°	25652	24833	24011
25°	25747	24121	22535
30°	25876	22909	20634
35°	25810	21000	18195
40°	25407	18497	15298
45°	24473	15629	12623
50°	22949	12847	10181
55°	20731	10424	8186
60°	17851	8395	6786
65°	14836	6933	5635
70°	12171	5813	4808
75°	9668	4968	4169
80°	7299	4245	3750
85°	4910	3924	3548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24473 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	4.7
10°-20°	334.9	13.3
20°-30°	490.5	19.4
30°-40°	535.3	21.2
40°-50°	453.9	18.0
50°-60°	308.5	12.2
60°-70°	174.3	6.9
70°-80°	79.5	3.2
80°-90°	20.8	0.8
90°-100°	2.7	0.1
100°-110°	1.6	0.1
110°-120°	0.9	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°	942.9	37.4
0°-40°	1478.2	58.6
0°-60°	2240.6	88.8
0°-90°	2515.1	99.7
90°-120°	5.1	0.2
90°-150°	7.0	0.3
90°-180°	8.0	0.3
0°-180°	2522.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1228	1235	1237	1239	1236	117
15°	1202	1202	1191	1177	1169	340
25°	1140	1120	1068	1019	997	526
35°	1032	966	840	752	728	645
45°	845	714	540	458	436	649
55°	581	429	292	243	229	518
65°	306	218	143	122	116	308
75°	122	90	63	55	53	132
85°	21	19	17	16	15	26
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°	1237.5	1237.5	1237.5	1237.5	1237.5
2.5°	1230.0	1236.7	1239.2	1242.5	1240.0
5°	1228.3	1235.0	1236.7	1239.2	1235.8
7.5°	1224.9	1230.8	1230.8	1230.8	1228.3
10°	1219.9	1224.1	1220.8	1217.4	1214.1
12.5°	1212.4	1214.1	1207.4	1201.5	1194.8
15°	1202.3	1201.5	1190.6	1177.2	1168.9
17.5°	1190.6	1187.3	1167.2	1149.6	1137.9
20°	1177.2	1168.9	1139.6	1112.0	1101.9
22.5°	1159.7	1148.0	1107.0	1068.5	1051.7
25°	1139.6	1120.4	1067.6	1019.1	997.4
27.5°	1118.7	1090.2	1019.1	958.9	935.4
30°	1094.4	1055.1	968.9	899.5	872.7
32.5°	1066.8	1016.6	911.2	827.5	799.1
35°	1032.5	966.4	840.1	752.2	727.9
37.5°	994.0	912.8	768.1	676.9	647.6
40°	950.5	851.8	692.0	600.8	572.3
42.5°	899.5	786.5	616.7	528.0	503.7
45°	845.1	713.7	539.7	458.5	435.9
47.5°	784.0	641.8	469.4	392.4	374.8
50°	720.4	569.8	403.3	337.2	319.6
52.5°	656.0	497.8	342.2	286.2	271.1
55°	580.7	429.2	292.0	242.6	229.3
57.5°	507.0	368.2	244.3	203.3	195.0
60°	435.9	309.6	205.0	171.5	165.7
62.5°	369.8	259.4	172.4	144.8	137.2
65°	306.2	217.5	143.1	122.2	116.3
67.5°	251.8	177.4	119.6	101.2	96.2
70°	203.3	143.1	97.1	82.8	80.3
72.5°	158.1	114.6	79.5	68.6	66.1
75°	122.2	89.5	62.8	55.2	52.7
77.5°	89.5	66.9	48.5	42.7	41.0
80°	61.9	47.7	36.0	32.6	31.8
82.5°	39.3	31.0	25.9	23.4	23.4
85°	20.9	19.2	16.7	15.9	15.1
87.5°	8.4	9.2	9.2	9.2	8.4
90°	0.0	2.5	3.3	4.2	4.2
92.5°	0.0	1.7	3.3	4.2	4.2
95°	0.0	0.8	2.5	4.2	4.2
97.5°	0.0	0.8	2.5	3.3	3.3
100°	0.0	0.8	1.7	3.3	3.3
102.5°	0.0	0.8	1.7	2.5	3.3
105°	0.0	0.8	1.7	2.5	2.5
107.5°	0.0	0.0	1.7	2.5	2.5
110°	0.0	0.0	0.8	1.7	2.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.8	1.7	2.5
115°	0.0	0.0	0.8	1.7	1.7
117.5°	0.0	0.0	0.8	1.7	1.7
120°	0.0	0.0	0.8	1.7	1.7
122.5°	0.0	0.0	0.8	1.7	1.7
125°	0.0	0.0	0.8	1.7	1.7
127.5°	0.0	0.8	0.8	0.8	1.7
130°	0.0	0.8	0.8	0.8	1.7
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	1.7
162.5°	0.8	0.8	0.8	1.7	1.7
165°	0.8	0.8	0.8	1.7	1.7
167.5°	0.8	0.8	0.8	1.7	1.7
170°	0.8	0.8	0.8	1.7	1.7
172.5°	0.8	0.8	0.8	1.7	1.7
175°	0.8	0.8	1.7	1.7	1.7
177.5°	0.8	0.8	1.7	1.7	1.7
180°	1.7	1.7	1.7	1.7	1.7



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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	21.57	23.01	21.94	23.33	23.65	16.93	18.37	17.30	18.69	19.02
	3H	22.82	24.11	23.20	24.44	24.81	17.97	19.26	18.35	19.59	19.96
	4H	23.22	24.42	23.62	24.78	25.17	18.34	19.54	18.74	19.90	20.29
	6H	23.46	24.57	23.88	24.94	25.34	18.60	19.71	19.02	20.08	20.48
	8H	23.51	24.57	23.94	24.96	25.37	18.69	19.74	19.12	20.14	20.55
	12H	23.53	24.54	23.97	24.93	25.36	18.75	19.76	19.19	20.15	20.59
4H	2H	21.58	22.79	21.99	23.14	23.53	17.50	18.71	17.91	19.06	19.45
	3H	22.99	23.98	23.41	24.39	24.80	18.73	19.72	19.15	20.13	20.54
	4H	23.48	24.37	23.92	24.79	25.24	19.19	20.08	19.63	20.50	20.95
	6H	23.82	24.59	24.29	25.04	25.51	19.55	20.32	20.01	20.77	21.24
	8H	23.91	24.63	24.38	25.08	25.56	19.67	20.39	20.14	20.84	21.32
	12H	23.96	24.60	24.45	25.08	25.56	19.77	20.41	20.26	20.90	21.38
8H	4H	23.47	24.19	23.94	24.64	25.12	19.48	20.20	19.95	20.65	21.13
	6H	23.86	24.46	24.37	24.96	25.44	19.92	20.52	20.43	21.02	21.50
	8H	23.99	24.52	24.51	25.04	25.53	20.10	20.63	20.62	21.15	21.65
	12H	24.08	24.55	24.59	25.05	25.62	20.27	20.74	20.79	21.24	21.81
12H	4H	23.45	24.09	23.94	24.57	25.05	19.51	20.15	20.00	20.64	21.12
	6H	23.84	24.37	24.36	24.89	25.38	19.97	20.51	20.50	21.02	21.52
	8H	23.99	24.46	24.51	24.96	25.54	20.20	20.68	20.72	21.17	21.75