

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: P892603

Luminaire Tested: 2MB-3SL-AOL-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892603
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-L940
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 9
4000K CCT
Light Source: -
Ballast/Driver: -

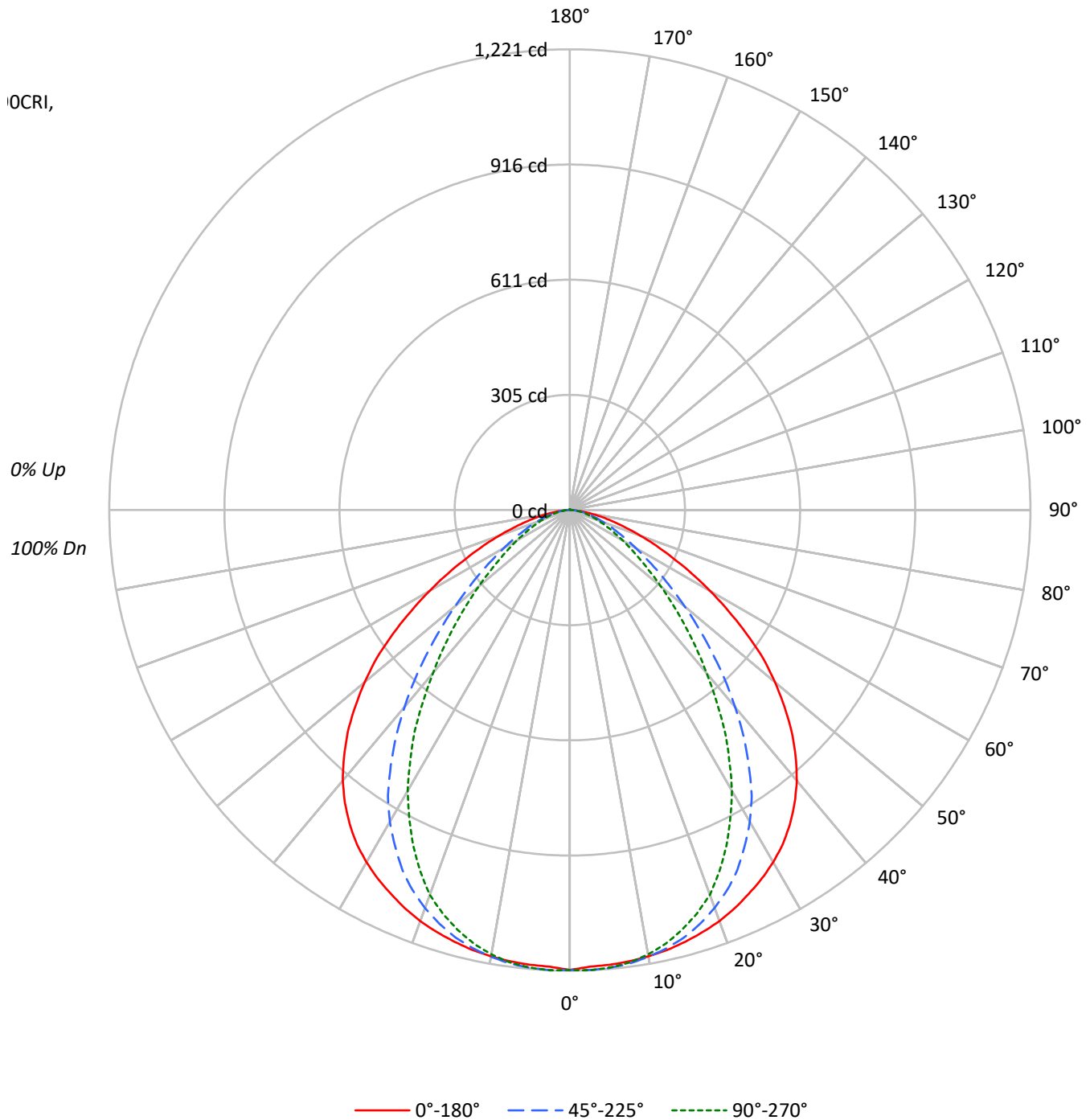
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2484.9 lumens
Efficiency: N/A
Efficacy: 118.3 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

TEST NUMBER: P892603
CATALOG NUMBER: 2MB-3SL-AOL-UNV-L940

Luminous Intensity Polar Plot





TEST NUMBER: P892603
 CATALOG NUMBER: 2MB-3SL-AOL-UNV-L940

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24959	24959	24959
5°	24867	25036	25019
10°	24982	25001	24864
15°	25104	24860	24406
20°	25266	24458	23649
25°	25359	23759	22193
30°	25486	22564	20322
35°	25420	20683	17923
40°	25025	18217	15068
45°	24102	15391	12435
50°	22605	12653	10028
55°	20417	10267	8061
60°	17585	8268	6684
65°	14613	6827	5553
70°	11992	5724	4736
75°	9518	4889	4106
80°	7193	4174	3691
85°	4840	3877	3477

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24102 cd/sqm



TEST NUMBER: P892603
 CATALOG NUMBER: 2MB-3SL-AOL-UNV-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	4.7
10°-20°	329.9	13.3
20°-30°	483.1	19.4
30°-40°	527.2	21.2
40°-50°	447.0	18.0
50°-60°	303.8	12.2
60°-70°	171.6	6.9
70°-80°	78.3	3.2
80°-90°	20.5	0.8
90°-100°	2.6	0.1
100°-110°	1.6	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°	928.7	37.4
0°-40°	1455.9	58.6
0°-60°	2206.8	88.8
0°-90°	2477.2	99.7
90°-120°	5.0	0.2
90°-150°	6.9	0.3
90°-180°	8.0	0.3
0°-180°	2484.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1210	1216	1218	1220	1217	115
15°	1184	1183	1173	1160	1151	335
25°	1122	1104	1052	1004	982	518
35°	1017	952	827	741	717	635
45°	832	703	532	452	429	639
55°	572	423	288	239	226	510
65°	302	214	141	120	115	303
75°	120	88	62	54	52	130
85°	21	19	16	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	



TEST NUMBER: P892603

CATALOG NUMBER: 2MB-3SL-AOL-UNV-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1218.9	1218.9	1218.9	1218.9	1218.9
2.5°	1211.4	1218.0	1220.5	1223.8	1221.3
5°	1209.8	1216.4	1218.0	1220.5	1217.2
7.5°	1206.5	1212.3	1212.3	1212.3	1209.8
10°	1201.5	1205.7	1202.4	1199.1	1195.8
12.5°	1194.1	1195.8	1189.2	1183.4	1176.8
15°	1184.2	1183.4	1172.7	1159.5	1151.3
17.5°	1172.7	1169.4	1149.6	1132.3	1120.8
20°	1159.5	1151.3	1122.4	1095.2	1085.3
22.5°	1142.2	1130.7	1090.3	1052.4	1035.9
25°	1122.4	1103.5	1051.6	1003.8	982.3
27.5°	1101.8	1073.8	1003.8	944.4	921.4
30°	1077.9	1039.2	954.3	885.9	859.5
32.5°	1050.7	1001.3	897.5	815.0	787.0
35°	1016.9	951.8	827.4	740.9	717.0
37.5°	979.0	899.1	756.5	666.7	637.9
40°	936.2	838.9	681.5	591.7	563.7
42.5°	885.9	774.7	607.4	520.0	496.1
45°	832.3	703.0	531.5	451.6	429.4
47.5°	772.2	632.1	462.3	386.5	369.2
50°	709.6	561.2	397.2	332.1	314.8
52.5°	646.1	490.3	337.1	281.8	267.0
55°	571.9	422.8	287.6	239.0	225.8
57.5°	499.4	362.6	240.6	200.3	192.0
60°	429.4	304.9	201.9	168.9	163.2
62.5°	364.3	255.5	169.8	142.6	135.2
65°	301.6	214.3	140.9	120.3	114.6
67.5°	248.1	174.7	117.8	99.7	94.8
70°	200.3	140.9	95.6	81.6	79.1
72.5°	155.8	112.9	78.3	67.6	65.1
75°	120.3	88.2	61.8	54.4	51.9
77.5°	88.2	65.9	47.8	42.0	40.4
80°	61.0	47.0	35.4	32.1	31.3
82.5°	38.7	30.5	25.5	23.1	23.1
85°	20.6	19.0	16.5	15.7	14.8
87.5°	8.2	9.1	9.1	9.1	8.2
90°	0.0	2.5	3.3	4.1	4.1
92.5°	0.0	1.6	3.3	4.1	4.1
95°	0.0	0.8	2.5	4.1	4.1
97.5°	0.0	0.8	2.5	3.3	3.3
100°	0.0	0.8	1.6	3.3	3.3
102.5°	0.0	0.8	1.6	2.5	3.3
105°	0.0	0.8	1.6	2.5	2.5
107.5°	0.0	0.0	1.6	2.5	2.5
110°	0.0	0.0	0.8	1.6	2.5



TEST NUMBER: P892603
 CATALOG NUMBER: 2MB-3SL-AOL-UNV-L940

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.8	1.6	2.5
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



TEST NUMBER: P892603
 CATALOG NUMBER: 2MB-3SL-AOL-UNV-L940

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	21.51	22.96	21.88	23.28	23.60	16.88	18.32	17.25	18.64	18.96
	3H	22.77	24.05	23.15	24.39	24.76	17.92	19.20	18.30	19.54	19.91
	4H	23.16	24.37	23.57	24.73	25.11	18.29	19.49	18.69	19.85	20.23
	6H	23.40	24.51	23.82	24.89	25.29	18.55	19.66	18.97	20.03	20.43
	8H	23.46	24.51	23.89	24.91	25.32	18.64	19.69	19.07	20.09	20.50
	12H	23.48	24.49	23.91	24.88	25.31	18.70	19.71	19.14	20.10	20.54
4H	2H	21.53	22.73	21.93	23.09	23.48	17.45	18.65	17.86	19.01	19.40
	3H	22.94	23.93	23.35	24.34	24.74	18.68	19.67	19.09	20.08	20.49
	4H	23.43	24.32	23.87	24.74	25.19	19.14	20.03	19.58	20.45	20.90
	6H	23.77	24.54	24.24	24.99	25.46	19.49	20.26	19.96	20.71	21.18
	8H	23.86	24.58	24.33	25.03	25.50	19.62	20.34	20.09	20.79	21.26
	12H	23.90	24.54	24.39	25.03	25.51	19.72	20.36	20.21	20.84	21.32
8H	4H	23.42	24.14	23.89	24.59	25.07	19.43	20.15	19.90	20.60	21.07
	6H	23.81	24.40	24.32	24.90	25.39	19.87	20.46	20.38	20.96	21.45
	8H	23.93	24.47	24.46	24.98	25.48	20.05	20.58	20.57	21.10	21.60
	12H	24.03	24.50	24.54	25.00	25.57	20.22	20.69	20.73	21.19	21.76
12H	4H	23.39	24.03	23.88	24.52	25.00	19.46	20.10	19.95	20.58	21.06
	6H	23.78	24.32	24.31	24.83	25.33	19.92	20.45	20.44	20.97	21.47
	8H	23.94	24.41	24.46	24.91	25.48	20.15	20.62	20.67	21.12	21.70