

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: P892586

Luminaire Tested: 2MB-3SL-A-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-3SL-A-UNV-L935
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

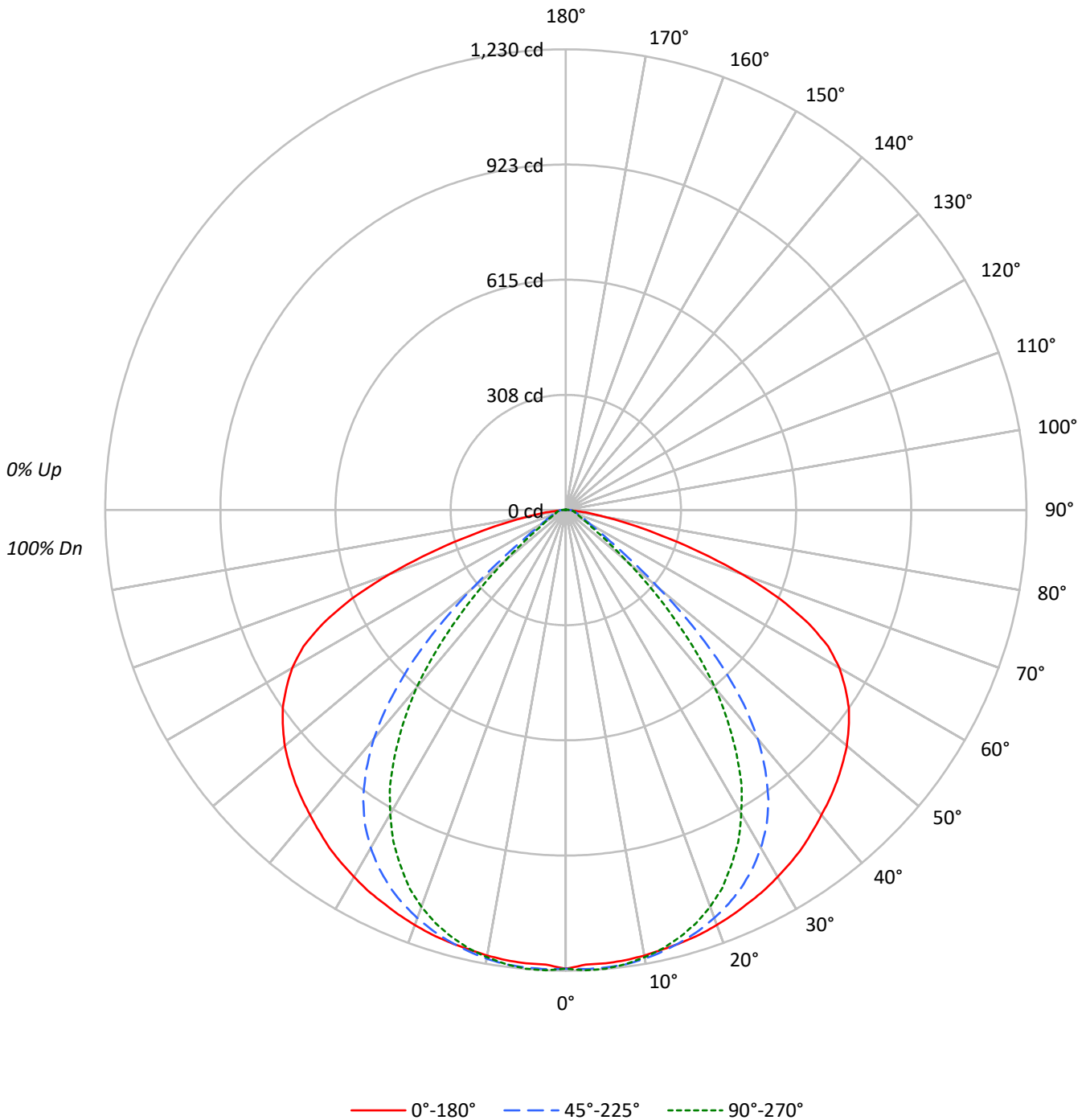
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2568.0 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.15 / 1.25
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: P892586
CATALOG NUMBER: 2MB-3SL-A-UNV-L935

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	105	101	99	100	98	95	97	94	93	93	91	90	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	84	81	79	77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	76	72	69	76	72	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	70	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	59	55	63	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	46	40	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	33	43	37	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25073	25073	25073
5°	24972	25202	25266
10°	25111	25294	25211
15°	25347	25297	25010
20°	25691	25255	24560
25°	26131	25103	23626
30°	26744	24630	22157
35°	27514	23585	19853
40°	28398	21336	16599
45°	29656	17106	11835
50°	31200	10401	6788
55°	32940	5016	3649
60°	34552	3071	2486
65°	34614	2476	2049
70°	29965	2245	1910
75°	21092	2271	2081
80°	12429	2724	2630
85°	5803	4135	3947

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 35042 cd/sqm



TEST NUMBER: P892586
 CATALOG NUMBER: 2MB-3SL-A-UNV-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	4.5
10°-20°	336.7	13.1
20°-30°	509.6	19.8
30°-40°	588.5	22.9
40°-50°	503.2	19.6
50°-60°	274.9	10.7
60°-70°	138.8	5.4
70°-80°	67.4	2.6
80°-90°	23.2	0.9
90°-100°	5.6	0.2
100°-110°	0.9	0.0
110°-120°	0.3	0.0
120°-130°	0.3	0.0
130°-140°	0.5	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	962.9	37.5
0°-40°	1551.4	60.4
0°-60°	2329.5	90.7
0°-90°	2558.9	99.6
90°-120°	6.9	0.3
90°-150°	8.2	0.3
90°-180°	9.0	0.4
0°-180°	2568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1215	1224	1226	1231	1229	116
15°	1196	1203	1193	1188	1180	338
25°	1157	1150	1111	1068	1046	535
35°	1101	1063	944	833	794	690
45°	1024	894	591	439	409	791
55°	923	424	140	109	102	822
65°	714	79	51	46	42	692
75°	267	44	29	28	26	295
85°	25	25	18	18	17	38
90°	0	14	11	11	10	1
95°	0	2	5	7	6	0
105°	0	0	1	2	1	0
115°	0	0	0	1	1	0
125°	0	0	1	1	0	0
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	2	1	0
165°	1	1	2	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°	1224.5	1224.5	1224.5	1224.5	1224.5
2.5°	1214.9	1223.7	1226.9	1232.4	1230.0
5°	1214.9	1224.5	1226.1	1230.8	1229.2
7.5°	1212.5	1221.3	1223.7	1226.1	1222.9
10°	1207.7	1216.5	1216.5	1216.5	1212.5
12.5°	1201.3	1210.9	1206.1	1202.9	1198.9
15°	1195.7	1202.9	1193.3	1187.7	1179.8
17.5°	1188.5	1194.1	1178.2	1167.0	1156.6
20°	1179.0	1181.4	1159.0	1138.3	1127.1
22.5°	1168.6	1166.2	1137.5	1107.1	1092.0
25°	1156.6	1150.2	1111.1	1068.0	1045.7
27.5°	1145.4	1131.9	1079.2	1020.9	997.8
30°	1131.1	1112.7	1041.7	968.2	937.1
32.5°	1116.7	1089.6	997.8	908.4	874.0
35°	1100.7	1063.2	943.5	833.3	794.2
37.5°	1081.6	1030.5	875.6	751.9	710.4
40°	1062.4	992.2	798.2	657.7	621.0
42.5°	1044.1	949.1	703.2	552.4	516.4
45°	1024.1	894.0	590.7	439.0	408.7
47.5°	1002.6	818.2	460.6	332.9	307.3
50°	979.4	720.0	326.5	233.1	213.1
52.5°	952.3	584.3	215.5	157.2	144.5
55°	922.7	423.9	140.5	109.4	102.2
57.5°	885.2	276.2	99.0	81.4	75.8
60°	843.7	165.2	75.0	64.7	60.7
62.5°	790.2	107.0	60.7	54.3	49.5
65°	714.4	79.0	51.1	45.5	42.3
67.5°	618.6	65.5	43.1	39.1	35.9
70°	500.5	57.5	37.5	34.3	31.9
72.5°	378.4	50.3	32.7	30.3	28.7
75°	266.6	43.9	28.7	27.9	26.3
77.5°	174.8	38.3	26.3	25.5	24.7
80°	105.4	32.7	23.1	23.1	22.3
82.5°	59.1	28.7	20.8	20.8	19.2
85°	24.7	24.7	17.6	17.6	16.8
87.5°	7.2	19.2	14.4	14.4	12.8
90°	0.0	14.4	11.2	11.2	10.4
92.5°	0.0	8.0	8.0	8.8	8.0
95°	0.0	1.6	4.8	7.2	6.4
97.5°	0.0	0.8	3.2	5.6	4.8
100°	0.0	0.0	1.6	4.0	3.2
102.5°	0.0	0.0	0.8	2.4	2.4
105°	0.0	0.0	0.8	1.6	0.8
107.5°	0.0	0.0	0.8	0.8	0.8
110°	0.0	0.0	0.8	0.8	0.8



TEST NUMBER: P892586

CATALOG NUMBER: 2MB-3SL-A-UNV-L935

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.8	0.8	0.8
115°	0.0	0.0	0.0	0.8	0.8
117.5°	0.0	0.0	0.0	0.8	0.0
120°	0.0	0.0	0.0	0.8	0.0
122.5°	0.0	0.0	0.0	0.8	0.0
125°	0.0	0.0	0.8	0.8	0.0
127.5°	0.0	0.0	0.8	0.8	0.8
130°	0.0	0.0	0.8	0.8	0.8
132.5°	0.8	0.0	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	1.6	0.8
157.5°	0.8	0.8	0.8	1.6	0.8
160°	0.8	0.8	0.8	1.6	0.8
162.5°	0.8	0.8	1.6	1.6	1.6
165°	0.8	0.8	1.6	1.6	1.6
167.5°	0.8	0.8	1.6	1.6	1.6
170°	0.8	0.8	1.6	1.6	1.6
172.5°	0.8	0.8	1.6	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	21.36	22.78	21.73	23.10	23.42	10.48	11.89	10.85	12.22	12.54
	3H	24.14	25.40	24.53	25.74	26.11	11.49	12.74	11.87	13.08	13.45
	4H	24.97	26.15	25.38	26.51	26.90	12.04	13.21	12.45	13.57	13.96
	6H	25.37	26.45	25.79	26.83	27.23	12.74	13.82	13.16	14.19	14.60
	8H	25.44	26.47	25.88	26.87	27.28	13.11	14.14	13.55	14.54	14.95
	12H	25.46	26.44	25.90	26.83	27.27	13.53	14.51	13.97	14.90	15.34
4H	2H	21.18	22.36	21.59	22.71	23.10	10.92	12.09	11.32	12.45	12.84
	3H	23.98	24.94	24.39	25.35	25.76	12.19	13.15	12.61	13.56	13.97
	4H	24.81	25.67	25.25	26.10	26.55	12.92	13.78	13.36	14.21	14.66
	6H	25.28	26.03	25.75	26.48	26.95	13.83	14.58	14.30	15.03	15.50
	8H	25.39	26.09	25.87	26.54	27.02	14.32	15.02	14.79	15.47	15.95
	12H	25.45	26.07	25.94	26.55	27.03	14.87	15.49	15.36	15.98	16.46
8H	4H	24.70	25.40	25.18	25.85	26.33	13.36	14.06	13.83	14.51	14.99
	6H	25.18	25.75	25.68	26.25	26.74	14.48	15.05	14.98	15.55	16.04
	8H	25.31	25.83	25.83	26.35	26.84	15.12	15.64	15.65	16.16	16.66
	12H	25.40	25.86	25.92	26.36	26.94	15.87	16.33	16.39	16.83	17.40
12H	4H	24.67	25.29	25.16	25.77	26.26	13.53	14.15	14.02	14.64	15.12
	6H	25.13	25.65	25.65	26.16	26.66	14.69	15.21	15.21	15.73	16.23
	8H	25.29	25.75	25.80	26.25	26.82	15.43	15.89	15.95	16.39	16.97