

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: P895771

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

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-3SL-ACL-UNV-L940
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 4000K (C)
Light Source: -
Ballast/Driver: -

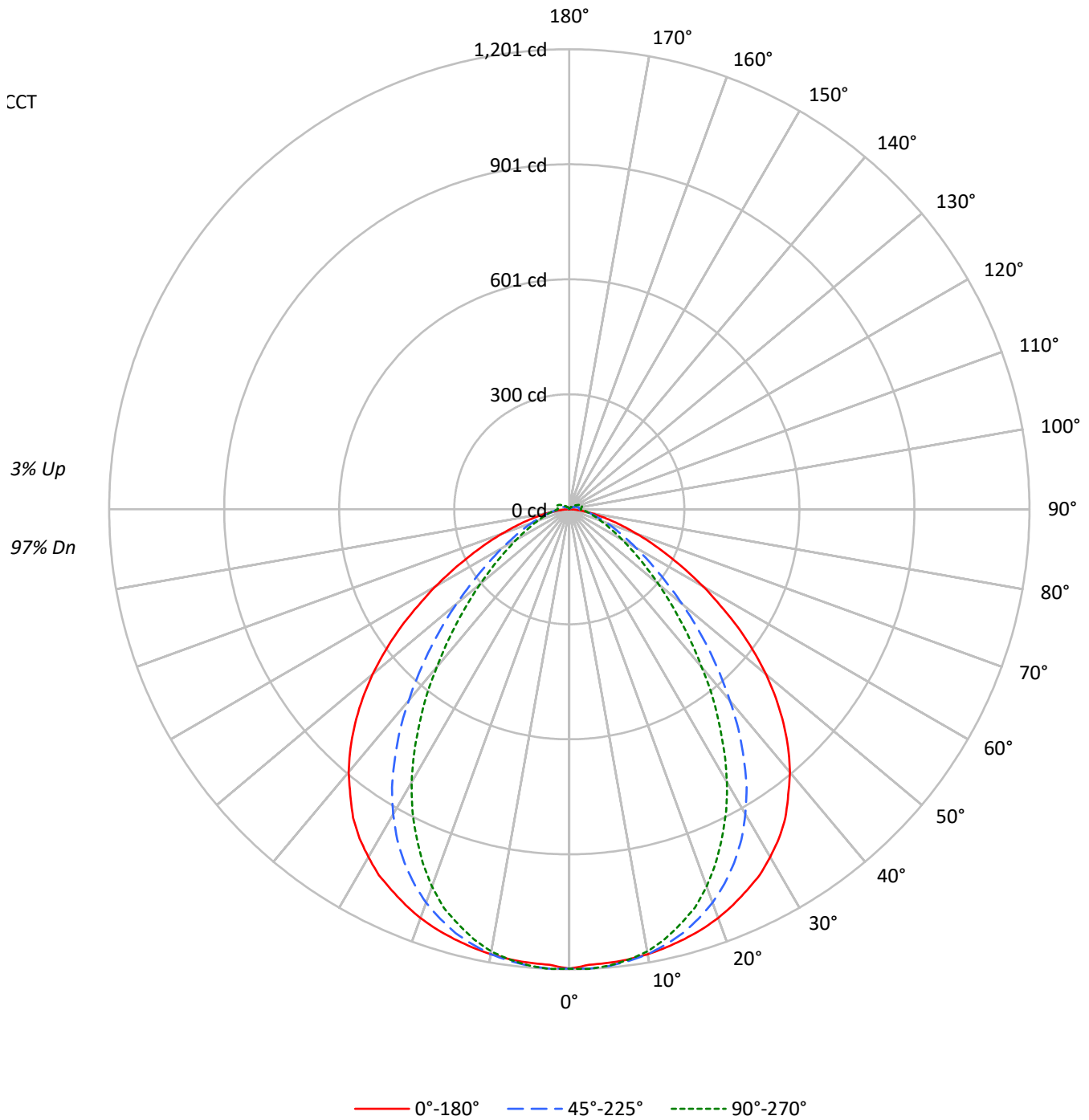
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2498.9 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.07 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.08')
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: P895771
CATALOG NUMBER: 2MB-3SL-ACL-UNV-L940

Luminous Intensity Polar Plot





TEST NUMBER: P895771

CATALOG NUMBER: 2MB-3SL-ACL-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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	110	105	102	98	107	103	100	97	98	96	93	94	92	90	90	88	87	87	87	87	84
2	101	94	88	83	98	92	86	82	88	83	80	84	81	77	81	78	75	75	75	75	73
3	93	84	77	71	91	82	76	70	79	73	69	76	71	67	73	69	66	66	66	66	64
4	86	76	68	62	84	74	67	61	71	65	60	69	63	59	66	62	58	58	58	58	56
5	80	68	60	54	78	67	60	54	65	58	53	63	57	52	61	56	52	52	52	52	50
6	74	62	54	48	72	61	54	48	59	52	47	57	51	47	56	50	46	46	46	46	44
7	69	57	49	43	68	56	49	43	54	48	43	53	47	42	51	46	42	42	42	42	40
8	65	52	45	39	63	52	44	39	50	43	39	49	43	38	47	42	38	38	38	38	36
9	61	48	41	36	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	38	33	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24557	24557	24557
5°	24342	24070	23927
10°	24344	23483	23094
15°	24346	22754	21922
20°	24376	21820	20491
25°	24310	20586	18603
30°	24203	18976	16468
35°	23878	16872	13954
40°	23133	14391	11372
45°	21967	11845	9012
50°	20327	9414	7033
55°	18097	7318	5447
60°	15417	5714	4265
65°	12603	4539	3389
70°	9997	3678	2782
75°	7719	2995	2435
80°	5493	2522	2203
85°	3141	2201	1983

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21967 cd/sqm



TEST NUMBER: P895771
 CATALOG NUMBER: 2MB-3SL-ACL-UNV-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	4.5
10°-20°	322.3	12.9
20°-30°	468.4	18.7
30°-40°	506.4	20.3
40°-50°	427.2	17.1
50°-60°	292.7	11.7
60°-70°	170.6	6.8
70°-80°	87.1	3.5
80°-90°	37.6	1.5
90°-100°	22.8	0.9
100°-110°	20.4	0.8
110°-120°	13.8	0.6
120°-130°	7.7	0.3
130°-140°	4.3	0.2
140°-150°	2.2	0.1
150°-160°	1.2	0.0
160°-170°	0.5	0.0
170°-180°	0.1	0.0
0°-30°	904.3	36.2
0°-40°	1410.7	56.5
0°-60°	2130.6	85.3
0°-90°	2426.0	97.1
90°-120°	57.0	2.3
90°-150°	71.3	2.9
90°-180°	73.0	2.9
0°-180°	2498.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1189	1196	1197	1199	1196	113
15°	1161	1161	1146	1132	1121	328
25°	1097	1076	1018	968	944	506
35°	983	920	794	709	681	613
45°	790	668	512	433	409	608
55°	537	407	279	233	221	479
65°	284	208	144	123	117	285
75°	113	92	73	68	67	122
85°	20	27	36	39	39	24
90°	1	12	26	30	30	1
95°	0	12	26	30	31	0
105°	0	7	22	32	34	0
115°	0	4	14	24	27	0
125°	0	2	8	14	16	0
135°	1	2	6	8	10	1
145°	1	2	4	5	6	1
155°	1	2	2	3	4	0
165°	1	1	2	2	2	0
175°	1	1	2	2	1	0
180°	1	1	1	1	1	



TEST NUMBER: P895771

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1199.3	1199.3	1199.3	1199.3	1199.3
2.5°	1190.3	1197.7	1200.1	1203.4	1201.0
5°	1188.6	1196.0	1196.8	1199.3	1196.0
7.5°	1185.3	1191.1	1189.4	1189.4	1186.1
10°	1179.5	1182.8	1179.5	1175.4	1172.1
12.5°	1171.3	1173.8	1163.9	1158.1	1149.9
15°	1161.4	1160.6	1145.7	1131.7	1121.0
17.5°	1149.9	1144.1	1121.0	1099.6	1090.5
20°	1135.8	1125.1	1093.0	1061.7	1047.7
22.5°	1117.7	1102.9	1058.4	1018.0	999.0
25°	1097.1	1075.7	1018.0	967.7	943.8
27.5°	1076.5	1044.4	972.6	910.0	886.9
30°	1048.5	1008.1	919.1	848.2	822.6
32.5°	1018.8	967.7	861.4	778.9	753.4
35°	983.4	919.9	793.8	708.9	680.8
37.5°	938.8	863.8	725.4	636.3	612.4
40°	896.0	802.8	652.0	563.8	537.4
42.5°	845.7	736.9	581.1	495.4	471.5
45°	790.5	668.5	511.9	432.7	408.8
47.5°	732.0	603.4	445.9	372.6	353.6
50°	670.1	536.6	384.1	320.6	303.3
52.5°	604.2	469.8	327.2	274.5	258.8
55°	537.4	407.2	278.6	233.3	220.9
57.5°	467.4	347.0	237.4	198.6	187.1
60°	403.9	296.7	200.3	169.8	160.7
62.5°	341.2	250.6	170.6	144.2	136.8
65°	283.6	208.5	144.2	122.8	117.0
67.5°	233.3	174.7	123.6	105.5	101.4
70°	186.3	142.6	103.9	90.7	86.5
72.5°	146.7	115.4	87.4	78.3	75.8
75°	112.9	92.3	73.4	68.4	66.8
77.5°	82.4	70.9	61.8	59.3	58.5
80°	57.7	53.6	51.9	51.9	51.9
82.5°	36.3	39.6	43.7	45.3	45.3
85°	19.8	27.2	36.3	38.7	38.7
87.5°	8.2	19.0	30.5	33.0	32.1
90°	0.8	12.4	26.4	29.7	29.7
92.5°	0.0	12.4	26.4	29.7	29.7
95°	0.0	11.5	25.6	30.5	31.3
97.5°	0.0	10.7	25.6	31.3	32.1
100°	0.8	9.9	25.6	32.1	33.0
102.5°	0.0	8.2	23.9	32.1	33.8
105°	0.0	6.6	22.3	32.1	33.8
107.5°	0.0	4.9	20.6	30.5	33.0
110°	0.0	4.9	19.0	28.8	31.3



TEST NUMBER: P895771
CATALOG NUMBER: 2MB-3SL-ACL-UNV-L940

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	4.1	16.5	26.4	29.7
115°	0.0	4.1	14.0	23.9	27.2
117.5°	0.0	3.3	12.4	21.4	23.9
120°	0.0	3.3	10.7	19.0	21.4
122.5°	0.0	3.3	9.9	16.5	19.0
125°	0.0	2.5	8.2	14.0	16.5
127.5°	0.8	2.5	7.4	12.4	14.8
130°	0.8	2.5	6.6	10.7	13.2
132.5°	0.8	2.5	5.8	9.9	11.5
135°	0.8	2.5	5.8	8.2	9.9
137.5°	0.8	2.5	4.9	7.4	8.2
140°	0.8	2.5	4.1	6.6	7.4
142.5°	0.8	1.6	4.1	5.8	6.6
145°	0.8	1.6	4.1	4.9	5.8
147.5°	0.8	1.6	3.3	4.9	4.9
150°	0.8	1.6	3.3	4.1	4.9
152.5°	0.8	1.6	2.5	4.1	4.1
155°	0.8	1.6	2.5	3.3	4.1
157.5°	0.8	1.6	2.5	3.3	3.3
160°	0.8	1.6	1.6	2.5	3.3
162.5°	0.8	0.8	1.6	2.5	2.5
165°	0.8	0.8	1.6	2.5	2.5
167.5°	0.8	0.8	1.6	1.6	2.5
170°	0.8	0.8	1.6	1.6	1.6
172.5°	0.8	0.8	1.6	1.6	0.8
175°	0.8	0.8	1.6	1.6	0.8
177.5°	0.8	0.8	1.6	0.8	0.8
180°	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P895771
 CATALOG NUMBER: 2MB-3SL-ACL-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	19.65	21.05	20.07	21.43	21.82	15.98	17.38	16.39	17.75	18.14
	3H	20.72	21.97	21.15	22.36	22.80	17.16	18.41	17.59	18.80	19.24
	4H	21.01	22.19	21.46	22.60	23.05	17.68	18.86	18.13	19.27	19.72
	6H	21.15	22.23	21.61	22.66	23.12	18.22	19.30	18.68	19.73	20.19
	8H	21.16	22.19	21.64	22.64	23.11	18.50	19.53	18.97	19.97	20.45
	12H	21.15	22.13	21.63	22.57	23.07	18.79	19.77	19.27	20.22	20.72
4H	2H	19.69	20.86	20.14	21.27	21.72	16.43	17.61	16.88	18.02	18.47
	3H	20.91	21.88	21.37	22.34	22.81	17.80	18.77	18.26	19.23	19.70
	4H	21.29	22.16	21.77	22.63	23.14	18.43	19.30	18.91	19.77	20.28
	6H	21.51	22.27	22.01	22.76	23.29	19.10	19.86	19.61	20.36	20.89
	8H	21.54	22.25	22.05	22.75	23.29	19.44	20.15	19.96	20.65	21.19
	12H	21.54	22.18	22.08	22.71	23.25	19.82	20.45	20.35	20.99	21.53
8H	4H	21.31	22.02	21.82	22.52	23.05	18.65	19.36	19.16	19.86	20.39
	6H	21.58	22.17	22.13	22.71	23.26	19.43	20.02	19.98	20.56	21.11
	8H	21.65	22.18	22.21	22.74	23.30	19.87	20.40	20.43	20.96	21.51
	12H	21.69	22.15	22.24	22.70	23.33	20.37	20.84	20.93	21.38	22.01
12H	4H	21.29	21.93	21.82	22.46	23.00	18.65	19.29	19.19	19.82	20.36
	6H	21.58	22.10	22.14	22.67	23.22	19.46	19.99	20.03	20.55	21.11
	8H	21.68	22.15	22.24	22.69	23.32	19.96	20.43	20.52	20.97	21.60