

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: P895772

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

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895772
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-L950
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 5000K (C)
Light Source: -
Ballast/Driver: -

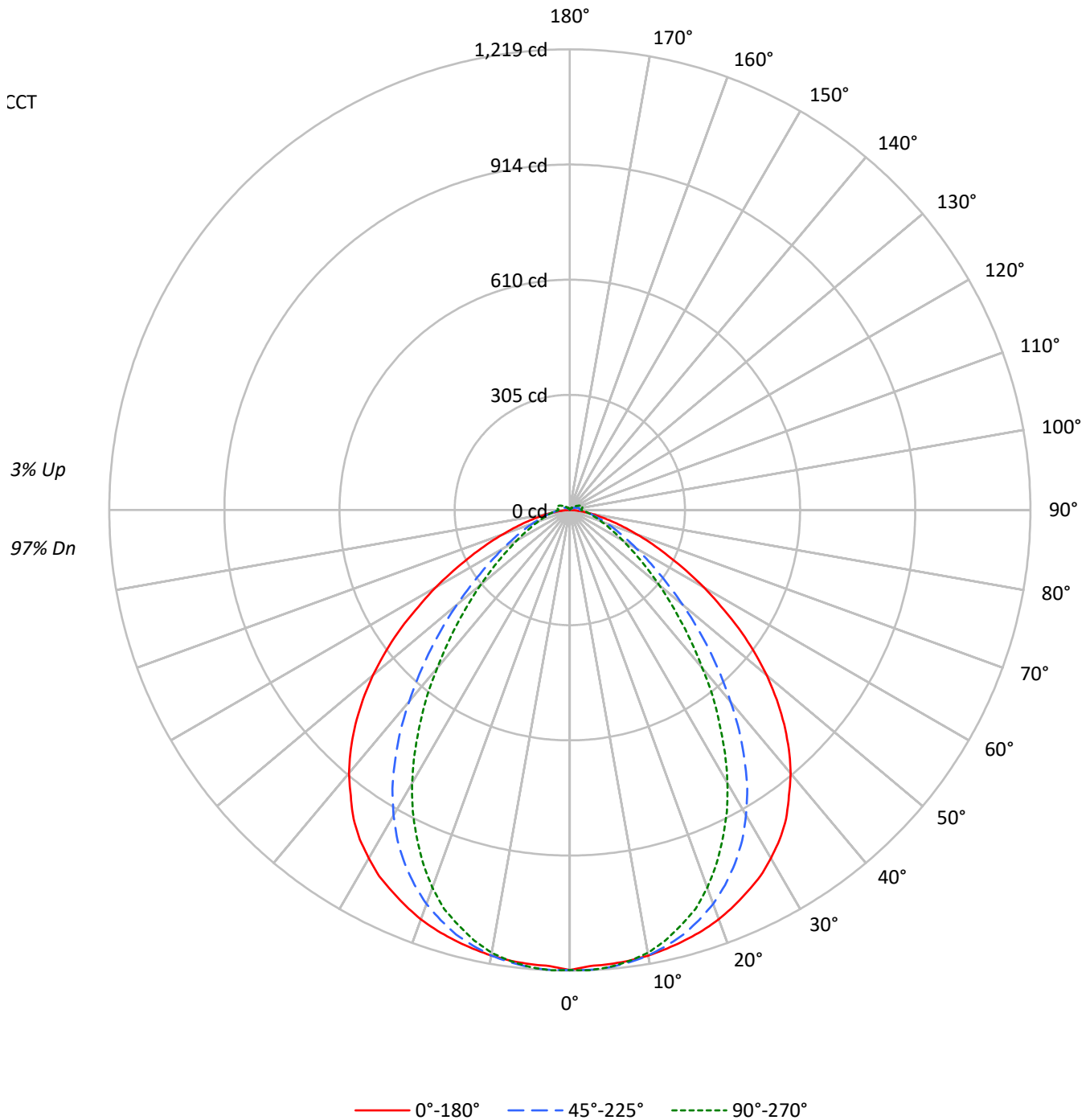
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2535.9 lumens
Efficiency: N/A
Efficacy: 120.8 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

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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	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°	24922	24922	24922
5°	24702	24428	24281
10°	24705	23832	23437
15°	24706	23092	22246
20°	24739	22143	20794
25°	24671	20889	18879
30°	24561	19257	16712
35°	24231	17120	14161
40°	23477	14605	11542
45°	22292	12020	9146
50°	20630	9554	7138
55°	18367	7425	5528
60°	15646	5799	4328
65°	12785	4608	3442
70°	10142	3732	2824
75°	7836	3036	2471
80°	5578	2561	2237
85°	3188	2231	2014

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22292 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	4.5
10°-20°	327.1	12.9
20°-30°	475.4	18.7
30°-40°	513.9	20.3
40°-50°	433.5	17.1
50°-60°	297.0	11.7
60°-70°	173.2	6.8
70°-80°	88.4	3.5
80°-90°	38.1	1.5
90°-100°	23.1	0.9
100°-110°	20.7	0.8
110°-120°	14.0	0.6
120°-130°	7.8	0.3
130°-140°	4.3	0.2
140°-150°	2.3	0.1
150°-160°	1.2	0.0
160°-170°	0.5	0.0
170°-180°	0.1	0.0
0°-30°	917.7	36.2
0°-40°	1431.6	56.5
0°-60°	2162.2	85.3
0°-90°	2461.9	97.1
90°-120°	57.8	2.3
90°-150°	72.3	2.9
90°-180°	74.0	2.9
0°-180°	2535.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1206	1214	1215	1217	1214	115
15°	1179	1178	1163	1148	1138	333
25°	1113	1092	1033	982	958	514
35°	998	934	806	719	691	622
45°	802	678	520	439	415	617
55°	545	413	283	237	224	486
65°	288	212	146	125	119	289
75°	115	94	74	69	68	124
85°	20	28	37	39	39	25
90°	1	12	27	30	30	1
95°	0	12	26	31	32	0
105°	0	7	23	33	34	0
115°	0	4	14	24	28	0
125°	0	2	8	14	17	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1217.1	1217.1	1217.1	1217.1	1217.1
2.5°	1207.9	1215.4	1217.9	1221.3	1218.7
5°	1206.2	1213.7	1214.6	1217.1	1213.7
7.5°	1202.9	1208.7	1207.0	1207.0	1203.7
10°	1197.0	1200.3	1197.0	1192.8	1189.5
12.5°	1188.6	1191.1	1181.1	1175.3	1166.9
15°	1178.6	1177.8	1162.7	1148.5	1137.6
17.5°	1166.9	1161.0	1137.6	1115.9	1106.7
20°	1152.7	1141.8	1109.2	1077.4	1063.2
22.5°	1134.3	1119.2	1074.0	1033.0	1013.8
25°	1113.4	1091.6	1033.0	982.0	957.8
27.5°	1092.4	1059.8	987.0	923.5	900.0
30°	1064.0	1023.0	932.7	860.7	834.8
32.5°	1033.9	982.0	874.1	790.5	764.5
35°	997.9	933.5	805.5	719.4	690.9
37.5°	952.7	876.6	736.1	645.8	621.5
40°	909.3	814.7	661.7	572.2	545.4
42.5°	858.2	747.8	589.7	502.7	478.5
45°	802.2	678.4	519.5	439.2	414.9
47.5°	742.8	612.3	452.5	378.1	358.8
50°	680.1	544.5	389.8	325.4	307.8
52.5°	613.1	476.8	332.1	278.5	262.7
55°	545.4	413.2	282.7	236.7	224.2
57.5°	474.3	352.2	240.9	201.6	189.9
60°	409.9	301.1	203.3	172.3	163.1
62.5°	346.3	254.3	173.2	146.4	138.9
65°	287.7	211.6	146.4	124.6	118.8
67.5°	236.7	177.3	125.5	107.1	102.9
70°	189.0	144.7	105.4	92.0	87.8
72.5°	148.9	117.1	88.7	79.5	77.0
75°	114.6	93.7	74.4	69.4	67.8
77.5°	83.6	71.9	62.7	60.2	59.4
80°	58.6	54.4	52.7	52.7	52.7
82.5°	36.8	40.2	44.3	46.0	46.0
85°	20.1	27.6	36.8	39.3	39.3
87.5°	8.4	19.2	30.9	33.5	32.6
90°	0.8	12.5	26.8	30.1	30.1
92.5°	0.0	12.5	26.8	30.1	30.1
95°	0.0	11.7	25.9	30.9	31.8
97.5°	0.0	10.9	25.9	31.8	32.6
100°	0.8	10.0	25.9	32.6	33.5
102.5°	0.0	8.4	24.3	32.6	34.3
105°	0.0	6.7	22.6	32.6	34.3
107.5°	0.0	5.0	20.9	30.9	33.5
110°	0.0	5.0	19.2	29.3	31.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	4.2	16.7	26.8	30.1
115°	0.0	4.2	14.2	24.3	27.6
117.5°	0.0	3.3	12.5	21.7	24.3
120°	0.0	3.3	10.9	19.2	21.7
122.5°	0.0	3.3	10.0	16.7	19.2
125°	0.0	2.5	8.4	14.2	16.7
127.5°	0.8	2.5	7.5	12.5	15.1
130°	0.8	2.5	6.7	10.9	13.4
132.5°	0.8	2.5	5.9	10.0	11.7
135°	0.8	2.5	5.9	8.4	10.0
137.5°	0.8	2.5	5.0	7.5	8.4
140°	0.8	2.5	4.2	6.7	7.5
142.5°	0.8	1.7	4.2	5.9	6.7
145°	0.8	1.7	4.2	5.0	5.9
147.5°	0.8	1.7	3.3	5.0	5.0
150°	0.8	1.7	3.3	4.2	5.0
152.5°	0.8	1.7	2.5	4.2	4.2
155°	0.8	1.7	2.5	3.3	4.2
157.5°	0.8	1.7	2.5	3.3	3.3
160°	0.8	1.7	1.7	2.5	3.3
162.5°	0.8	0.8	1.7	2.5	2.5
165°	0.8	0.8	1.7	2.5	2.5
167.5°	0.8	0.8	1.7	1.7	2.5
170°	0.8	0.8	1.7	1.7	1.7
172.5°	0.8	0.8	1.7	1.7	0.8
175°	0.8	0.8	1.7	1.7	0.8
177.5°	0.8	0.8	1.7	0.8	0.8
180°	0.8	0.8	0.8	0.8	0.8



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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	19.71	21.11	20.12	21.48	21.87	16.03	17.43	16.44	17.81	18.20
	3H	20.77	22.02	21.20	22.42	22.85	17.21	18.46	17.64	18.85	19.29
	4H	21.06	22.24	21.51	22.65	23.10	17.74	18.91	18.19	19.32	19.77
	6H	21.20	22.28	21.66	22.71	23.17	18.27	19.36	18.74	19.78	20.25
	8H	21.21	22.24	21.69	22.69	23.16	18.55	19.58	19.03	20.03	20.50
	12H	21.20	22.18	21.68	22.62	23.12	18.84	19.83	19.32	20.27	20.77
4H	2H	19.74	20.91	20.19	21.32	21.77	16.49	17.66	16.94	18.07	18.52
	3H	20.96	21.93	21.42	22.39	22.86	17.85	18.82	18.31	19.28	19.75
	4H	21.34	22.21	21.82	22.68	23.19	18.48	19.35	18.96	19.83	20.34
	6H	21.56	22.32	22.07	22.82	23.35	19.15	19.91	19.66	20.41	20.94
	8H	21.59	22.30	22.10	22.80	23.34	19.50	20.21	20.01	20.71	21.24
	12H	21.60	22.23	22.13	22.76	23.30	19.87	20.51	20.41	21.04	21.58
8H	4H	21.36	22.07	21.87	22.57	23.10	18.70	19.41	19.21	19.91	20.44
	6H	21.63	22.22	22.18	22.77	23.31	19.48	20.07	20.03	20.62	21.16
	8H	21.70	22.23	22.26	22.79	23.35	19.92	20.45	20.48	21.01	21.57
	12H	21.74	22.21	22.30	22.75	23.38	20.42	20.89	20.98	21.44	22.07
12H	4H	21.34	21.98	21.88	22.51	23.05	18.71	19.34	19.24	19.87	20.41
	6H	21.63	22.16	22.19	22.72	23.27	19.52	20.04	20.08	20.61	21.16
	8H	21.73	22.20	22.29	22.74	23.38	20.01	20.48	20.57	21.02	21.65