

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: P895770

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

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895770
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-L935
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 3500K (C)
Light Source: -
Ballast/Driver: -

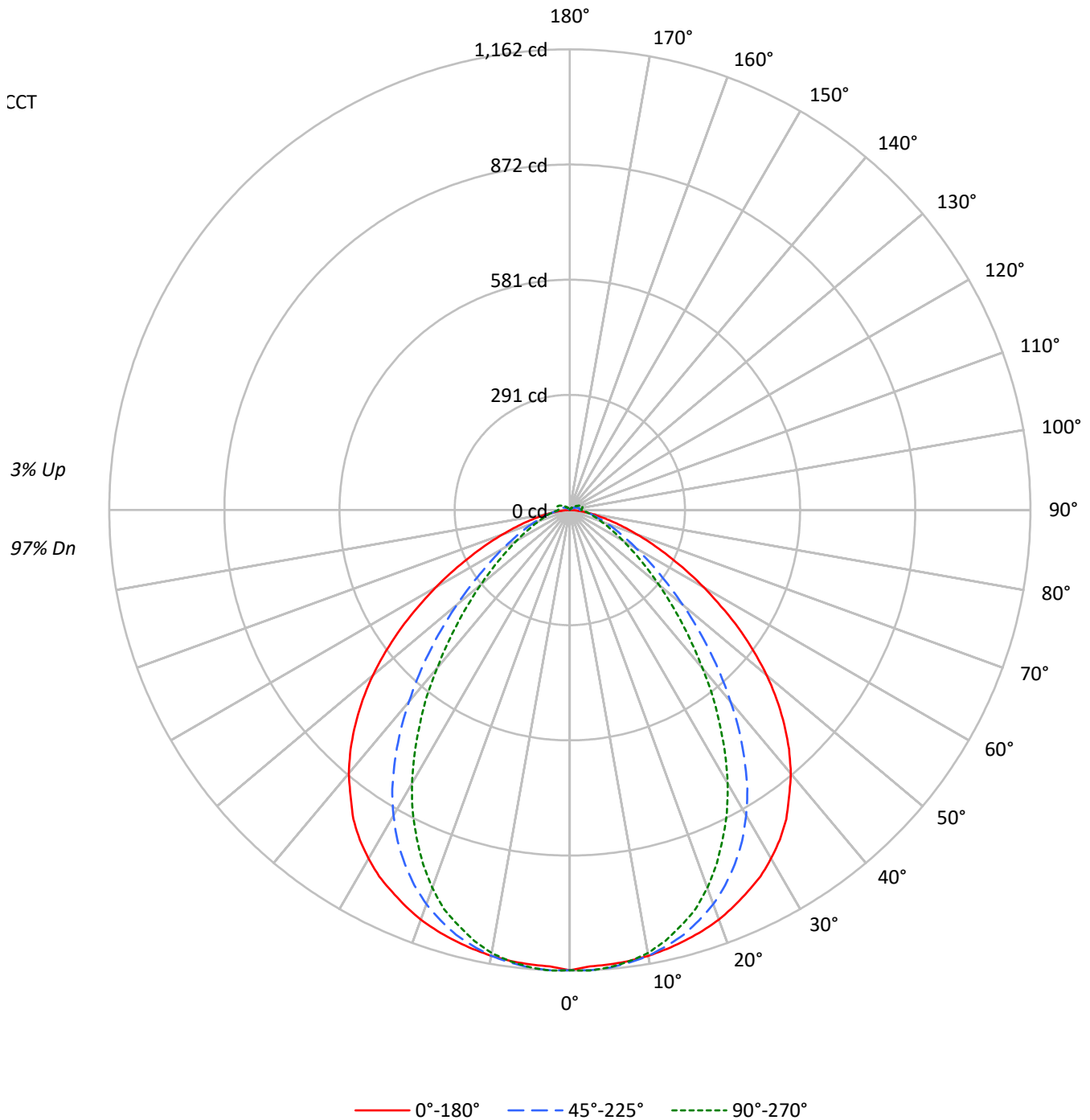
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2419.0 lumens
Efficiency: N/A
Efficacy: 115.2 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°	23771	23771	23771
5°	23563	23300	23161
10°	23566	22733	22355
15°	23566	22027	21220
20°	23597	21121	19834
25°	23532	19926	18008
30°	23427	18367	15942
35°	23114	16332	13509
40°	22392	13930	11008
45°	21264	11465	8725
50°	19678	9113	6808
55°	17518	7084	5272
60°	14925	5531	4129
65°	12199	4394	3282
70°	9675	3558	2695
75°	7473	2897	2355
80°	5321	2445	2135
85°	3030	2128	1922

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21264 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	4.5
10°-20°	312.0	12.9
20°-30°	453.4	18.7
30°-40°	490.1	20.3
40°-50°	413.5	17.1
50°-60°	283.4	11.7
60°-70°	165.2	6.8
70°-80°	84.3	3.5
80°-90°	36.4	1.5
90°-100°	22.1	0.9
100°-110°	19.7	0.8
110°-120°	13.4	0.6
120°-130°	7.5	0.3
130°-140°	4.1	0.2
140°-150°	2.2	0.1
150°-160°	1.1	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	875.4	36.2
0°-40°	1365.5	56.4
0°-60°	2062.4	85.3
0°-90°	2348.3	97.1
90°-120°	55.2	2.3
90°-150°	69.0	2.9
90°-180°	71.0	2.9
0°-180°	2419.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1151	1158	1158	1161	1158	110
15°	1124	1123	1109	1096	1085	318
25°	1062	1041	985	937	914	490
35°	952	890	768	686	659	593
45°	765	647	496	419	396	588
55°	520	394	270	226	214	464
65°	274	202	140	119	113	276
75°	109	89	71	66	65	118
85°	19	26	35	38	38	23
90°	1	12	26	29	29	1
95°	0	11	25	30	30	0
105°	0	6	22	31	33	0
115°	0	4	14	23	26	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1160.9	1160.9	1160.9	1160.9	1160.9
2.5°	1152.1	1159.3	1161.7	1164.9	1162.5
5°	1150.6	1157.7	1158.5	1160.9	1157.7
7.5°	1147.4	1152.9	1151.3	1151.3	1148.2
10°	1141.8	1145.0	1141.8	1137.8	1134.6
12.5°	1133.8	1136.2	1126.6	1121.0	1113.1
15°	1124.2	1123.4	1109.1	1095.5	1085.1
17.5°	1113.1	1107.5	1085.1	1064.4	1055.6
20°	1099.5	1089.1	1058.0	1027.7	1014.1
22.5°	1081.9	1067.6	1024.5	985.4	967.0
25°	1062.0	1041.2	985.4	936.7	913.6
27.5°	1042.0	1010.9	941.5	880.9	858.5
30°	1014.9	975.8	889.6	821.0	796.3
32.5°	986.2	936.7	833.8	754.0	729.3
35°	951.9	890.4	768.4	686.2	659.1
37.5°	908.8	836.2	702.1	616.0	592.8
40°	867.3	777.1	631.1	545.8	520.2
42.5°	818.6	713.3	562.5	479.5	456.4
45°	765.2	647.1	495.5	418.9	395.8
47.5°	708.5	584.1	431.7	360.6	342.3
50°	648.7	519.4	371.8	310.4	293.6
52.5°	584.9	454.8	316.8	265.7	250.5
55°	520.2	394.2	269.7	225.8	213.8
57.5°	452.4	335.9	229.8	192.3	181.1
60°	391.0	287.2	193.9	164.4	155.6
62.5°	330.3	242.6	165.2	139.6	132.4
65°	274.5	201.9	139.6	118.9	113.3
67.5°	225.8	169.2	119.7	102.1	98.1
70°	180.3	138.0	100.5	87.8	83.8
72.5°	142.0	111.7	84.6	75.8	73.4
75°	109.3	89.4	71.0	66.2	64.6
77.5°	79.8	68.6	59.8	57.4	56.6
80°	55.9	51.9	50.3	50.3	50.3
82.5°	35.1	38.3	42.3	43.9	43.9
85°	19.1	26.3	35.1	37.5	37.5
87.5°	8.0	18.4	29.5	31.9	31.1
90°	0.8	12.0	25.5	28.7	28.7
92.5°	0.0	12.0	25.5	28.7	28.7
95°	0.0	11.2	24.7	29.5	30.3
97.5°	0.0	10.4	24.7	30.3	31.1
100°	0.8	9.6	24.7	31.1	31.9
102.5°	0.0	8.0	23.1	31.1	32.7
105°	0.0	6.4	21.5	31.1	32.7
107.5°	0.0	4.8	19.9	29.5	31.9
110°	0.0	4.8	18.4	27.9	30.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	4.0	16.0	25.5	28.7
115°	0.0	4.0	13.6	23.1	26.3
117.5°	0.0	3.2	12.0	20.7	23.1
120°	0.0	3.2	10.4	18.4	20.7
122.5°	0.0	3.2	9.6	16.0	18.4
125°	0.0	2.4	8.0	13.6	16.0
127.5°	0.8	2.4	7.2	12.0	14.4
130°	0.8	2.4	6.4	10.4	12.8
132.5°	0.8	2.4	5.6	9.6	11.2
135°	0.8	2.4	5.6	8.0	9.6
137.5°	0.8	2.4	4.8	7.2	8.0
140°	0.8	2.4	4.0	6.4	7.2
142.5°	0.8	1.6	4.0	5.6	6.4
145°	0.8	1.6	4.0	4.8	5.6
147.5°	0.8	1.6	3.2	4.8	4.8
150°	0.8	1.6	3.2	4.0	4.8
152.5°	0.8	1.6	2.4	4.0	4.0
155°	0.8	1.6	2.4	3.2	4.0
157.5°	0.8	1.6	2.4	3.2	3.2
160°	0.8	1.6	1.6	2.4	3.2
162.5°	0.8	0.8	1.6	2.4	2.4
165°	0.8	0.8	1.6	2.4	2.4
167.5°	0.8	0.8	1.6	1.6	2.4
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



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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	19.54	20.94	19.95	21.32	21.71	15.87	17.27	16.28	17.64	18.03
	3H	20.61	21.86	21.04	22.25	22.69	17.05	18.30	17.47	18.69	19.12
	4H	20.90	22.07	21.35	22.48	22.93	17.57	18.74	18.02	19.15	19.61
	6H	21.03	22.12	21.50	22.54	23.01	18.11	19.19	18.57	19.62	20.08
	8H	21.05	22.08	21.52	22.52	23.00	18.39	19.41	18.86	19.86	20.34
	12H	21.03	22.02	21.51	22.46	22.96	18.68	19.66	19.16	20.10	20.60
4H	2H	19.57	20.74	20.02	21.16	21.61	16.32	17.49	16.77	17.90	18.36
	3H	20.80	21.77	21.26	22.23	22.70	17.69	18.66	18.15	19.11	19.59
	4H	21.17	22.05	21.66	22.52	23.03	18.32	19.19	18.80	19.66	20.17
	6H	21.39	22.15	21.90	22.65	23.18	18.99	19.75	19.49	20.24	20.77
	8H	21.43	22.14	21.94	22.64	23.17	19.33	20.04	19.85	20.54	21.08
	12H	21.43	22.06	21.96	22.60	23.14	19.71	20.34	20.24	20.88	21.42
8H	4H	21.19	21.90	21.71	22.40	22.94	18.53	19.24	19.05	19.74	20.28
	6H	21.47	22.06	22.01	22.60	23.15	19.32	19.91	19.86	20.45	21.00
	8H	21.54	22.06	22.10	22.63	23.18	19.76	20.28	20.32	20.85	21.40
	12H	21.57	22.04	22.13	22.59	23.22	20.26	20.73	20.82	21.27	21.90
12H	4H	21.18	21.81	21.71	22.35	22.89	18.54	19.17	19.07	19.71	20.25
	6H	21.46	21.99	22.03	22.55	23.11	19.35	19.88	19.91	20.44	21.00
	8H	21.57	22.04	22.13	22.58	23.21	19.85	20.32	20.41	20.86	21.49