

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: P893414

Luminaire Tested: 4MB-3SL-LVR-UNV-L935

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P893414  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-3SL-LVR-UNV-L935  
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

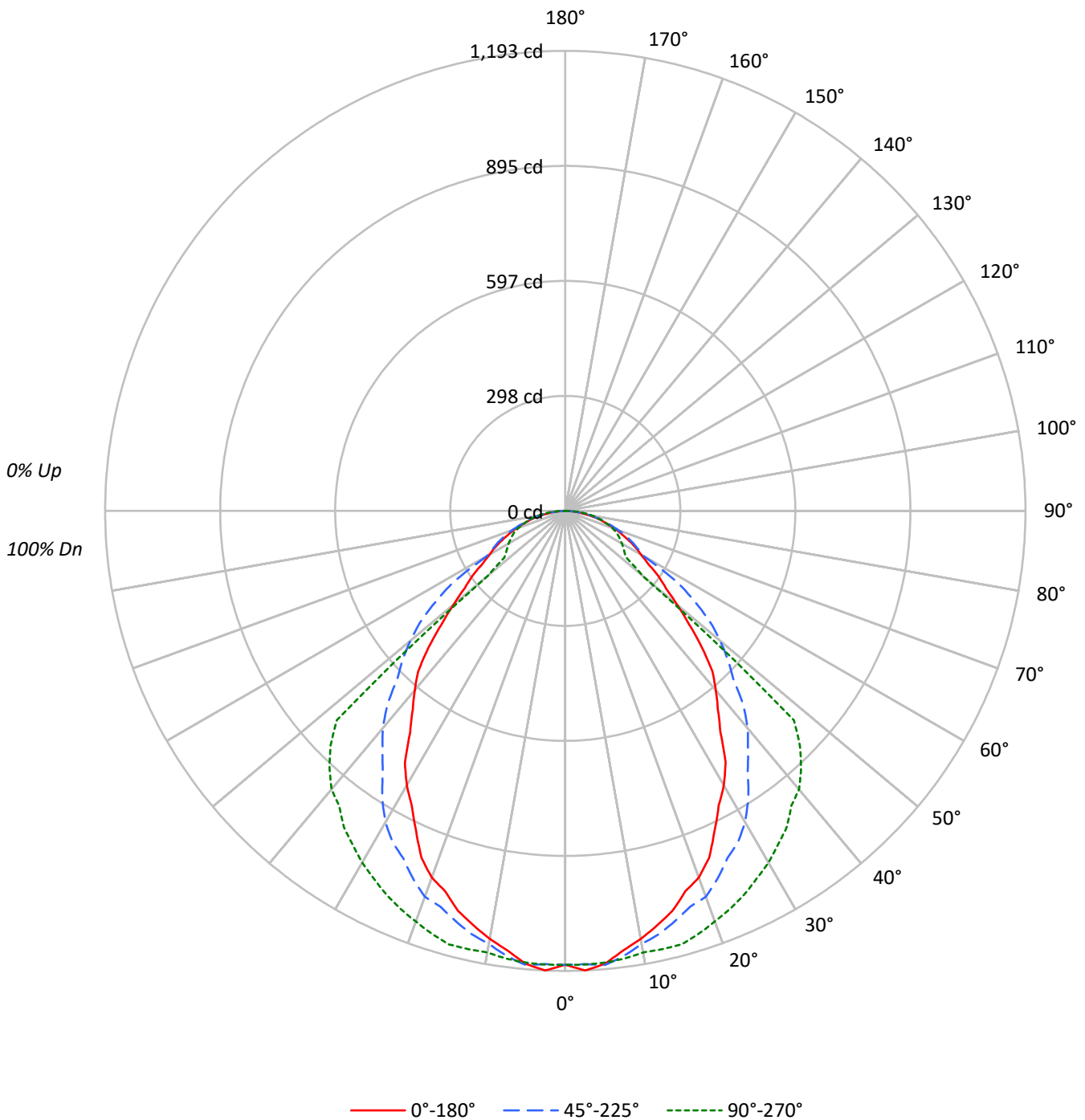
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2512.0 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27  
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 5.2  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	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°	8375	8375	8375
5°	8420	8441	8398
10°	8144	8240	8400
15°	7909	8108	8573
20°	7661	8062	8580
25°	7188	7802	8618
30°	6752	7660	8654
35°	6089	7164	8694
40°	5640	6835	8756
45°	5045	6194	8656
50°	4185	5802	2908
55°	3647	5093	2327
60°	3225	3320	2412
65°	3067	3229	2561
70°	2877	3052	2702
75°	2678	2875	2777
80°	2438	2708	2905
85°	2163	2310	3143

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 8656 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.6	4.4
10°-20°	314.1	12.5
20°-30°	462.0	18.4
30°-40°	528.4	21.0
40°-50°	500.3	19.9
50°-60°	275.7	11.0
60°-70°	177.0	7.0
70°-80°	109.2	4.3
80°-90°	33.6	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	887.8	35.3
0°-40°	1416.2	56.4
0°-60°	2192.2	87.3
0°-90°	2512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2512.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1179	1188	1182	1182	1176	111
15°	1074	1087	1101	1158	1164	301
25°	916	956	994	1059	1098	422
35°	701	761	825	944	1001	443
45°	501	549	616	790	860	383
55°	294	308	411	212	188	263
65°	182	188	192	171	152	180
75°	97	99	105	110	101	104
85°	26	26	28	32	38	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1177.1	1177.1	1177.1	1177.1	1177.1
2.5°	1192.8	1195.8	1176.5	1175.9	1177.7
5°	1178.9	1188.5	1181.9	1181.9	1175.9
7.5°	1149.5	1165.7	1163.9	1177.7	1171.1
10°	1127.2	1140.5	1140.5	1176.5	1162.7
12.5°	1100.8	1115.8	1124.2	1162.1	1163.9
15°	1073.7	1086.9	1100.8	1158.5	1163.9
17.5°	1034.6	1058.7	1076.1	1132.6	1150.1
20°	1011.8	1026.2	1064.7	1110.4	1133.2
22.5°	973.9	995.0	1032.2	1083.3	1117.0
25°	915.6	956.5	993.8	1058.7	1097.8
27.5°	861.5	892.2	969.1	1037.7	1074.9
30°	821.8	845.9	932.4	1007.0	1053.3
32.5°	773.7	812.8	883.1	976.9	1026.2
35°	701.0	761.1	824.8	944.5	1001.0
37.5°	649.9	691.4	777.9	910.8	963.1
40°	607.2	645.1	735.9	868.7	942.7
42.5°	564.5	595.2	683.0	837.5	904.8
45°	501.4	548.9	615.6	790.0	860.3
47.5°	435.3	485.8	571.7	749.7	803.8
50°	378.1	418.4	524.2	669.7	262.7
52.5°	328.2	365.5	473.7	242.3	198.4
55°	294.0	308.4	410.6	211.6	187.6
57.5°	253.1	276.5	344.5	201.4	178.0
60°	226.6	236.9	233.3	191.2	169.5
62.5°	205.6	212.8	211.6	181.0	159.9
65°	182.2	188.2	191.8	170.7	152.1
67.5°	158.7	164.1	169.5	158.1	141.3
70°	138.3	141.9	146.7	143.1	129.9
72.5°	117.2	121.4	124.4	127.5	114.8
75°	97.4	99.2	104.6	110.0	101.0
77.5°	79.4	81.2	84.8	90.8	86.0
80°	59.5	61.3	66.1	70.9	70.9
82.5°	42.1	43.3	46.3	52.9	55.9
85°	26.5	26.5	28.3	32.5	38.5
87.5°	10.2	10.2	12.0	14.4	19.2
90°	0.0	0.0	0.0	0.0	0.0



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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	15.33	16.82	15.70	17.13	17.44	13.14	14.62	13.50	14.93	15.25
	3H	16.86	18.19	17.24	18.51	18.88	15.47	16.79	15.85	17.12	17.48
	4H	17.45	18.70	17.85	19.04	19.42	16.42	17.66	16.82	18.01	18.39
	6H	17.91	19.06	18.32	19.42	19.82	17.20	18.35	17.61	18.72	19.11
	8H	18.05	19.15	18.48	19.54	19.94	17.51	18.60	17.94	18.99	19.40
	12H	18.15	19.20	18.58	19.58	20.01	17.76	18.81	18.19	19.19	19.62
4H	2H	15.88	17.13	16.28	17.48	17.86	14.24	15.48	14.64	15.83	16.21
	3H	17.66	18.68	18.07	19.09	19.49	16.69	17.72	17.10	18.12	18.52
	4H	18.38	19.30	18.81	19.72	20.16	17.75	18.68	18.19	19.09	19.53
	6H	18.96	19.77	19.42	20.21	20.67	18.64	19.45	19.10	19.89	20.35
	8H	19.15	19.90	19.62	20.35	20.82	18.99	19.74	19.46	20.19	20.66
	12H	19.29	19.96	19.77	20.44	20.91	19.28	19.95	19.76	20.43	20.90
8H	4H	18.68	19.44	19.15	19.88	20.35	18.14	18.89	18.60	19.34	19.80
	6H	19.40	20.02	19.89	20.51	20.99	19.17	19.80	19.67	20.29	20.77
	8H	19.66	20.22	20.17	20.73	21.22	19.62	20.18	20.13	20.69	21.18
	12H	19.87	20.36	20.38	20.86	21.42	20.00	20.50	20.51	21.00	21.56
12H	4H	18.72	19.39	19.20	19.87	20.34	18.17	18.85	18.66	19.33	19.80
	6H	19.46	20.02	19.97	20.53	21.02	19.24	19.80	19.75	20.31	20.80
	8H	19.78	20.28	20.29	20.77	21.34	19.75	20.25	20.26	20.74	21.30