

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: P893044

Luminaire Tested: 2MB-SC3-LVR-UNV-CC93-MID-3500K

Issue Date: 11/11/2024

**Test Information**

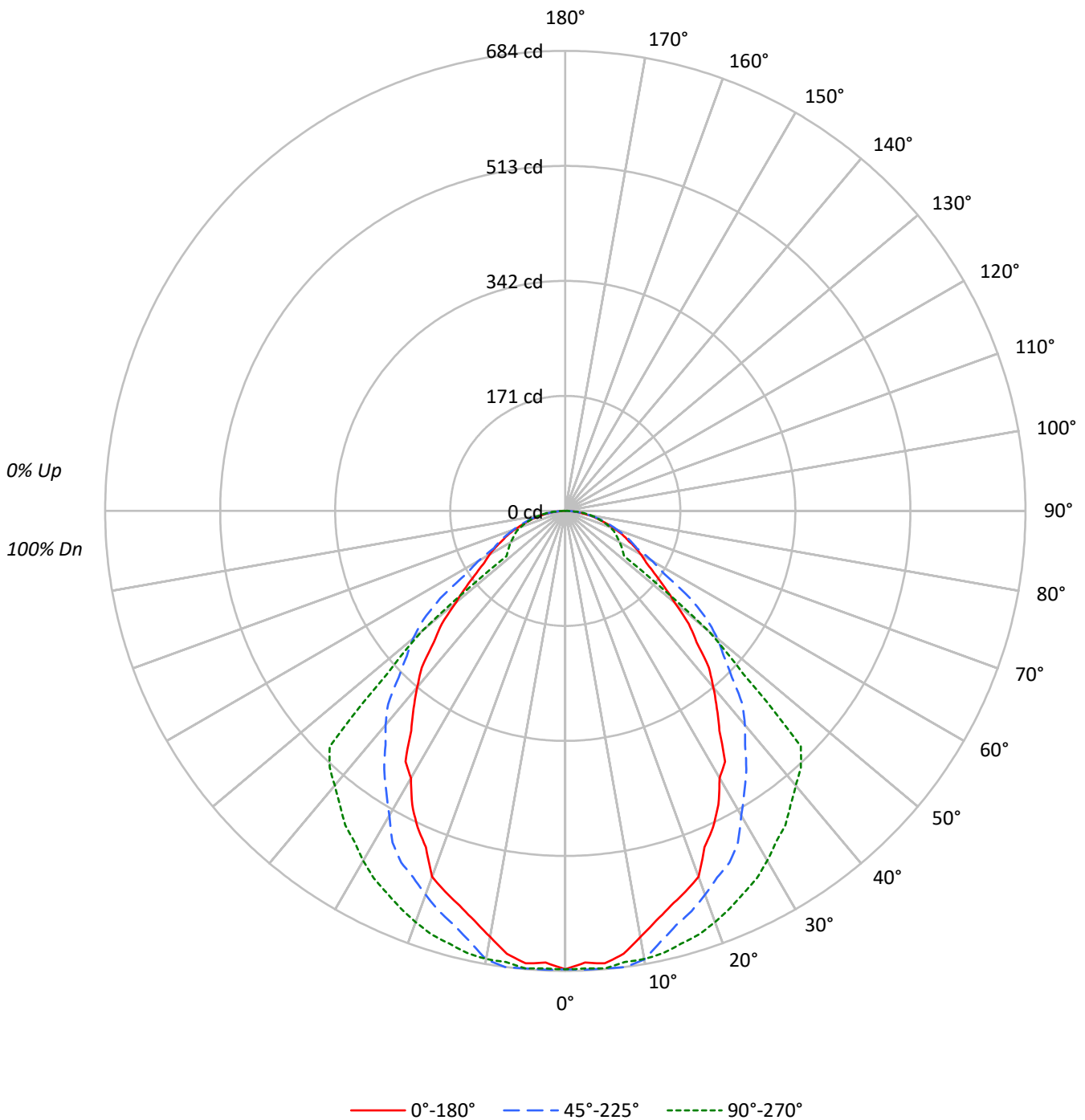
Test Method: LM-79-2019  
Report Number: P893044  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVR-UNV-CC93-MID-3500K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT, MID lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1422.0 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.3 / 1.26  
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 13.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.9948  
Total Harmonic Distortion (THDi): 5.65231997856897  
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	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	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	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	42	42	42	40
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	38	37
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9751	9751	9751
5°	9699	9805	9805
10°	9343	9837	9828
15°	8994	9443	9865
20°	8811	9245	9904
25°	8198	9108	9898
30°	7577	8641	9919
35°	6973	8194	9958
40°	6392	7757	9954
45°	5586	7089	10018
50°	4725	6572	6200
55°	4015	5652	2594
60°	3719	4286	2675
65°	3456	3646	2810
70°	3262	3442	2953
75°	3012	3250	3045
80°	2752	3007	3213
85°	2446	2741	3447

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10018 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.6	4.5
10°-20°	180.9	12.7
20°-30°	263.0	18.5
30°-40°	297.8	20.9
40°-50°	278.2	19.6
50°-60°	158.1	11.1
60°-70°	99.3	7.0
70°-80°	60.9	4.3
80°-90°	19.1	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°	508.6	35.8
0°-40°	806.4	56.7
0°-60°	1242.6	87.4
0°-90°	1422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1422.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	675	682	683	680	683	63
15°	607	618	638	672	666	172
25°	519	529	577	603	627	238
35°	399	426	469	530	570	252
45°	276	305	350	445	495	215
55°	161	176	227	119	104	147
65°	102	106	108	94	83	102
75°	54	56	59	60	55	58
85°	15	16	17	19	21	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	681.6	681.6	681.6	681.6	681.6
2.5°	672.3	679.7	682.8	682.2	681.0
5°	675.4	682.2	682.8	680.3	682.8
7.5°	664.2	680.3	684.1	677.9	676.6
10°	643.2	652.5	677.2	679.7	676.6
12.5°	624.0	635.2	655.6	679.7	673.5
15°	607.3	617.8	637.6	672.3	666.1
17.5°	593.7	597.4	624.0	664.2	660.5
20°	578.8	586.2	607.3	644.4	650.6
22.5°	541.1	561.5	590.0	627.1	639.5
25°	519.4	529.3	577.0	603.0	627.1
27.5°	492.8	510.7	555.9	584.4	616.0
30°	458.7	479.1	523.1	565.2	600.5
32.5°	442.0	449.4	495.2	549.7	583.2
35°	399.3	425.9	469.2	530.5	570.2
37.5°	370.2	386.3	438.9	512.0	550.3
40°	342.3	360.9	415.4	491.5	533.0
42.5°	315.7	332.4	390.0	471.1	518.2
45°	276.1	304.6	350.4	445.1	495.2
47.5°	248.9	266.8	319.4	413.5	359.1
50°	212.3	234.0	295.3	283.5	278.6
52.5°	185.7	197.5	266.2	239.6	110.2
55°	161.0	175.8	226.6	118.9	104.0
57.5°	142.4	152.3	174.0	110.2	99.0
60°	130.0	132.5	149.8	105.2	93.5
62.5°	116.4	118.9	119.5	99.7	87.9
65°	102.1	105.9	107.7	93.5	83.0
67.5°	91.6	92.2	94.7	86.7	78.0
70°	78.0	79.2	82.3	79.2	70.6
72.5°	66.2	68.1	70.0	70.6	63.1
75°	54.5	56.3	58.8	60.0	55.1
77.5°	44.6	45.2	47.7	50.8	47.0
80°	33.4	35.3	36.5	39.6	39.0
82.5°	24.1	24.8	26.6	29.1	30.3
85°	14.9	15.5	16.7	18.6	21.0
87.5°	6.2	6.8	7.4	8.7	9.9
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	15.63	17.11	16.00	17.42	17.74	13.38	14.85	13.74	15.17	15.48
	3H	17.22	18.54	17.60	18.87	19.23	15.71	17.03	16.09	17.36	17.72
	4H	17.82	19.06	18.22	19.41	19.79	16.65	17.89	17.06	18.24	18.62
	6H	18.28	19.42	18.69	19.79	20.18	17.44	18.59	17.86	18.96	19.35
	8H	18.43	19.52	18.86	19.91	20.31	17.75	18.84	18.18	19.23	19.63
	12H	18.53	19.57	18.96	19.96	20.39	18.00	19.04	18.43	19.42	19.85
4H	2H	16.20	17.44	16.60	17.79	18.17	14.53	15.77	14.93	16.12	16.50
	3H	18.02	19.05	18.43	19.45	19.85	16.97	18.00	17.38	18.40	18.80
	4H	18.75	19.68	19.19	20.09	20.53	18.02	18.94	18.45	19.36	19.80
	6H	19.35	20.15	19.80	20.59	21.05	18.91	19.72	19.37	20.16	20.62
	8H	19.54	20.29	20.01	20.74	21.21	19.26	20.01	19.72	20.45	20.92
	12H	19.69	20.36	20.17	20.84	21.31	19.54	20.21	20.03	20.69	21.16
8H	4H	19.06	19.81	19.52	20.26	20.72	18.42	19.17	18.89	19.62	20.08
	6H	19.78	20.40	20.28	20.90	21.37	19.46	20.09	19.96	20.58	21.06
	8H	20.05	20.62	20.57	21.13	21.61	19.90	20.46	20.42	20.97	21.46
	12H	20.27	20.77	20.78	21.26	21.83	20.29	20.78	20.80	21.28	21.84
12H	4H	19.10	19.77	19.58	20.25	20.72	18.46	19.13	18.94	19.61	20.08
	6H	19.85	20.41	20.36	20.92	21.41	19.53	20.09	20.05	20.60	21.09
	8H	20.18	20.68	20.69	21.17	21.74	20.04	20.53	20.55	21.03	21.59