

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: P893042

Luminaire Tested: 2MB-SC3-LVR-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

**Test Information**

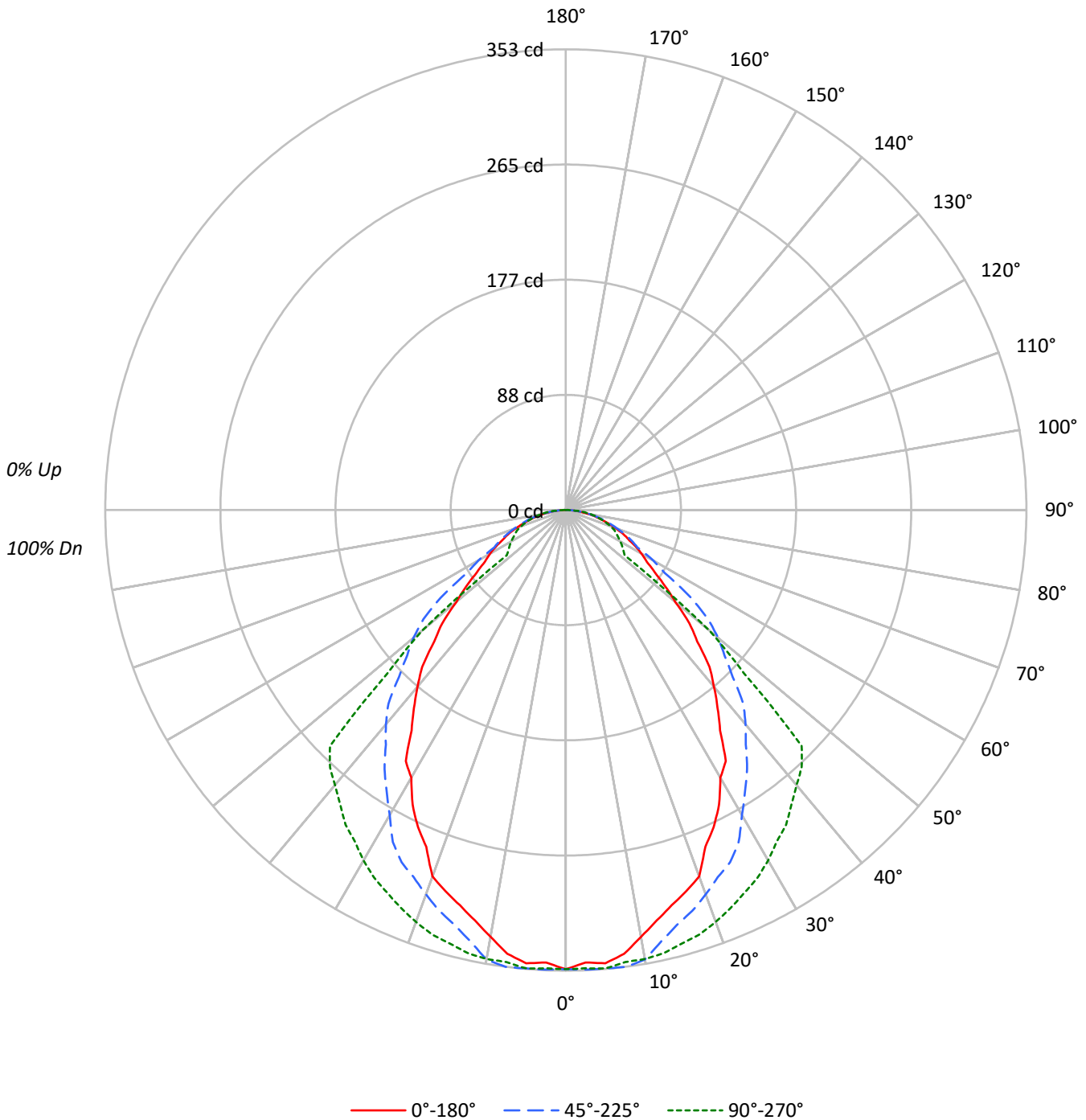
Test Method: LM-79-2019  
Report Number: P893042  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVR-UNV-CC93-LOW-4000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT, LOW lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 734.0 lumens  
Efficiency: N/A  
Efficacy: 106.4 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): 6.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.9915  
Total Harmonic Distortion (THDi): 6.67573310469889  
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°	5033	5033	5033
5°	5006	5062	5062
10°	4823	5078	5074
15°	4643	4874	5092
20°	4549	4773	5112
25°	4232	4701	5109
30°	3912	4460	5121
35°	3599	4230	5140
40°	3300	4004	5137
45°	2883	3660	5171
50°	2439	3392	3200
55°	2073	2918	1339
60°	1920	2212	1382
65°	1784	1882	1449
70°	1686	1778	1522
75°	1553	1680	1570
80°	1425	1557	1656
85°	1264	1412	1789

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5171 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.4	4.5
10°-20°	93.4	12.7
20°-30°	135.7	18.5
30°-40°	153.7	20.9
40°-50°	143.6	19.6
50°-60°	81.6	11.1
60°-70°	51.3	7.0
70°-80°	31.5	4.3
80°-90°	9.9	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°	262.5	35.8
0°-40°	416.2	56.7
0°-60°	641.4	87.4
0°-90°	734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	734.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	352	352	352	352	352	
5°	349	352	352	351	352	33
15°	314	319	329	347	344	89
25°	268	273	298	311	324	123
35°	206	220	242	274	294	130
45°	142	157	181	230	256	111
55°	83	91	117	61	54	76
65°	53	55	56	48	43	53
75°	28	29	30	31	28	30
85°	8	8	9	10	11	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	351.8	351.8	351.8	351.8	351.8
2.5°	347.0	350.9	352.5	352.1	351.5
5°	348.6	352.1	352.5	351.2	352.5
7.5°	342.9	351.2	353.1	349.9	349.3
10°	332.0	336.8	349.6	350.9	349.3
12.5°	322.1	327.8	338.4	350.9	347.7
15°	313.5	318.9	329.1	347.0	343.8
17.5°	306.4	308.4	322.1	342.9	341.0
20°	298.8	302.6	313.5	332.6	335.8
22.5°	279.3	289.8	304.5	323.7	330.1
25°	268.1	273.2	297.8	311.2	323.7
27.5°	254.4	263.6	286.9	301.6	317.9
30°	236.8	247.3	270.0	291.7	310.0
32.5°	228.2	232.0	255.6	283.8	301.0
35°	206.1	219.8	242.2	273.8	294.3
37.5°	191.1	199.4	226.6	264.3	284.1
40°	176.7	186.3	214.4	253.7	275.1
42.5°	163.0	171.6	201.3	243.2	267.5
45°	142.5	157.2	180.9	229.8	255.6
47.5°	128.5	137.7	164.9	213.5	185.3
50°	109.6	120.8	152.4	146.3	143.8
52.5°	95.9	101.9	137.4	123.7	56.9
55°	83.1	90.7	117.0	61.4	53.7
57.5°	73.5	78.6	89.8	56.9	51.1
60°	67.1	68.4	77.3	54.3	48.3
62.5°	60.1	61.4	61.7	51.4	45.4
65°	52.7	54.6	55.6	48.3	42.8
67.5°	47.3	47.6	48.9	44.7	40.3
70°	40.3	40.9	42.5	40.9	36.4
72.5°	34.2	35.1	36.1	36.4	32.6
75°	28.1	29.1	30.4	31.0	28.4
77.5°	23.0	23.3	24.6	26.2	24.3
80°	17.3	18.2	18.9	20.5	20.1
82.5°	12.5	12.8	13.7	15.0	15.7
85°	7.7	8.0	8.6	9.6	10.9
87.5°	3.2	3.5	3.8	4.5	5.1
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	13.33	14.81	13.70	15.12	15.44	11.08	12.56	11.44	12.87	13.19
	3H	14.92	16.24	15.30	16.57	16.93	13.41	14.74	13.79	15.06	15.43
	4H	15.52	16.76	15.92	17.11	17.49	14.36	15.60	14.76	15.95	16.32
	6H	15.98	17.13	16.40	17.49	17.89	15.15	16.29	15.56	16.66	17.05
	8H	16.14	17.22	16.56	17.61	18.02	15.46	16.54	15.88	16.93	17.34
	12H	16.24	17.28	16.67	17.66	18.09	15.70	16.75	16.13	17.13	17.56
4H	2H	13.90	15.14	14.30	15.49	15.87	12.24	13.47	12.64	13.82	14.20
	3H	15.72	16.75	16.13	17.15	17.55	14.67	15.70	15.08	16.10	16.50
	4H	16.46	17.38	16.89	17.80	18.24	15.72	16.64	16.15	17.06	17.50
	6H	17.05	17.85	17.51	18.29	18.76	16.62	17.42	17.08	17.86	18.32
	8H	17.25	18.00	17.71	18.44	18.91	16.96	17.71	17.43	18.16	18.63
	12H	17.39	18.06	17.87	18.54	19.01	17.25	17.92	17.73	18.40	18.87
8H	4H	16.76	17.51	17.23	17.96	18.43	16.12	16.87	16.59	17.32	17.79
	6H	17.48	18.11	17.98	18.60	19.08	17.17	17.79	17.67	18.28	18.76
	8H	17.76	18.32	18.27	18.83	19.32	17.61	18.17	18.12	18.68	19.17
	12H	17.98	18.48	18.49	18.97	19.53	17.99	18.49	18.50	18.98	19.55
12H	4H	16.80	17.47	17.28	17.95	18.42	16.16	16.83	16.64	17.31	17.78
	6H	17.55	18.11	18.06	18.62	19.11	17.24	17.80	17.75	18.31	18.80
	8H	17.88	18.38	18.39	18.87	19.44	17.74	18.24	18.25	18.73	19.30