

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: P893079

Luminaire Tested: 2MB-SC3-LVRF-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

**Test Information**

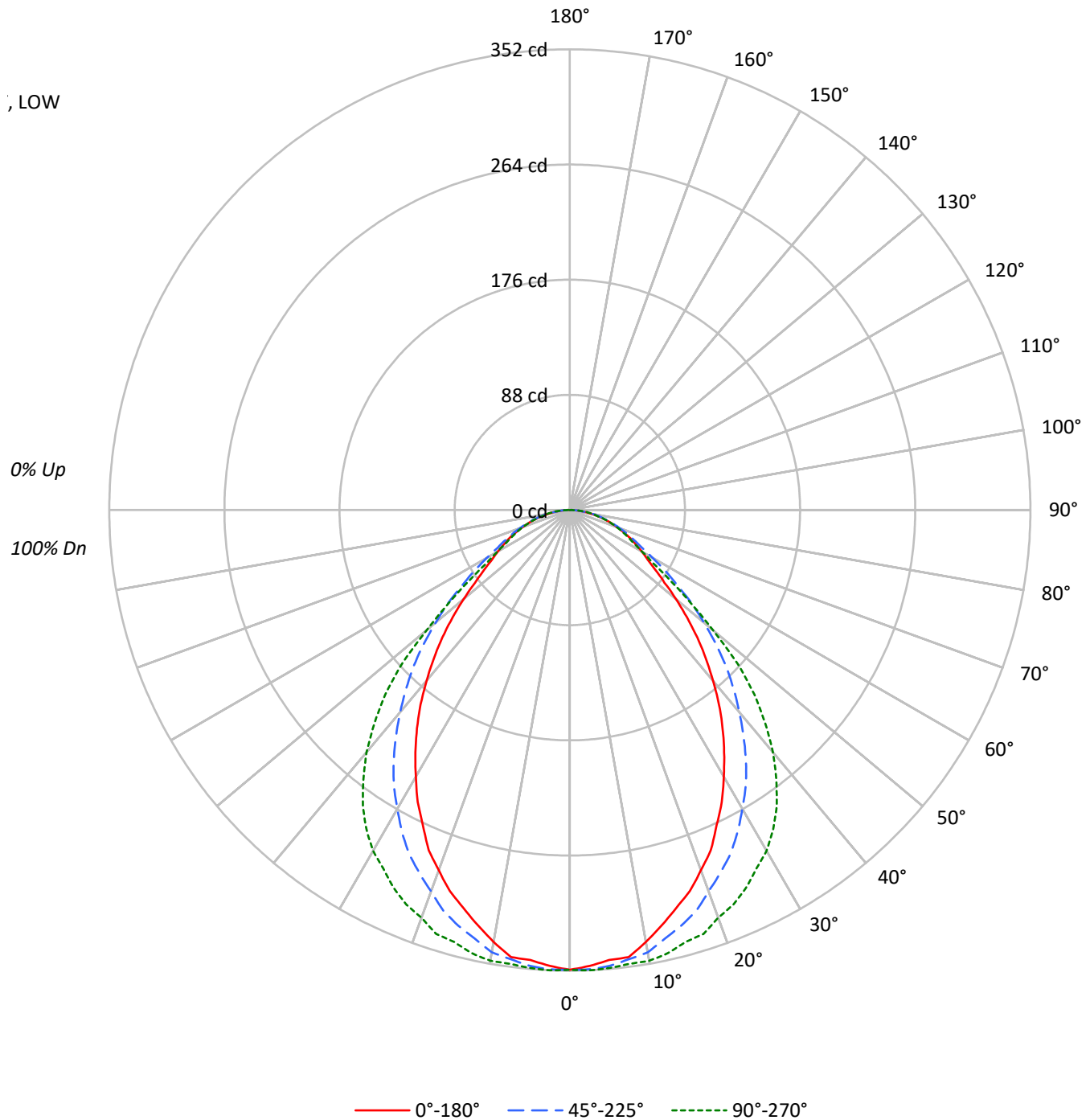
Test Method: LM-79-2019  
Report Number: P893079  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVRF-UNV-CC93-LOW-5000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K CCT  
lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 712.0 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.26 / 1.21  
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 (Ain): 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	61	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	54	47	43	52	47	42	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	32	31

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

	0°	45°	90°
0°	5026	5026	5026
5°	4956	5022	5045
10°	4868	4985	5080
15°	4659	4871	5059
20°	4459	4721	5047
25°	4192	4582	5027
30°	3888	4354	4967
35°	3556	4099	4815
40°	3177	3765	4512
45°	2786	3415	4034
50°	2355	2978	3171
55°	1993	2502	2324
60°	1820	2091	1831
65°	1726	1835	1659
70°	1615	1698	1589
75°	1509	1597	1526
80°	1392	1499	1475
85°	1231	1330	1592

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4034 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.2	4.7
10°-20°	92.7	13.0
20°-30°	133.7	18.8
30°-40°	147.4	20.7
40°-50°	129.1	18.1
50°-60°	84.8	11.9
60°-70°	51.8	7.3
70°-80°	30.0	4.2
80°-90°	9.3	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°	259.6	36.5
0°-40°	407.0	57.2
0°-60°	620.9	87.2
0°-90°	712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	712.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	351	351	351	351	351	
5°	345	349	350	352	351	33
15°	315	320	329	340	342	89
25°	266	275	290	308	318	122
35°	204	212	235	261	276	127
45°	138	146	169	190	199	106
55°	80	84	100	101	93	73
65°	51	51	54	52	49	50
75°	27	27	29	30	28	29
85°	8	8	8	9	10	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	351.3	351.3	351.3	351.3	351.3
2.5°	348.7	350.7	351.3	352.6	352.0
5°	345.1	348.7	349.7	351.6	351.3
7.5°	344.5	343.2	346.1	350.0	349.7
10°	335.1	337.7	343.2	349.0	349.7
12.5°	325.0	329.2	335.4	345.5	346.8
15°	314.6	319.8	328.9	339.6	341.6
17.5°	305.2	310.4	321.1	333.1	339.6
20°	292.9	300.0	310.1	325.0	331.5
22.5°	281.5	287.3	300.3	316.6	326.3
25°	265.6	274.7	290.3	307.8	318.5
27.5°	251.6	260.1	277.6	297.1	308.8
30°	235.4	244.8	263.6	285.4	300.7
32.5°	219.5	228.2	250.3	272.7	289.3
35°	203.6	212.3	234.7	260.7	275.7
37.5°	187.3	196.4	218.2	244.8	259.1
40°	170.1	180.5	201.6	227.9	241.6
42.5°	153.9	163.6	185.1	210.7	221.1
45°	137.7	146.1	168.8	189.6	199.4
47.5°	121.4	129.5	151.3	168.5	174.0
50°	105.8	113.3	133.8	144.5	142.5
52.5°	91.2	98.1	117.5	121.8	116.2
55°	79.9	84.1	100.3	100.7	93.2
57.5°	70.5	73.7	86.4	83.1	75.0
60°	63.6	64.6	73.1	69.5	64.0
62.5°	56.8	57.5	62.0	59.4	55.2
65°	51.0	51.0	54.2	51.9	49.0
67.5°	44.5	44.8	47.1	45.8	43.5
70°	38.6	38.6	40.6	40.6	38.0
72.5°	32.8	32.8	34.4	34.7	33.1
75°	27.3	27.3	28.9	29.5	27.6
77.5°	22.1	22.1	23.4	24.4	22.1
80°	16.9	16.9	18.2	19.2	17.9
82.5°	12.0	12.3	13.0	14.0	14.0
85°	7.5	7.5	8.1	8.8	9.7
87.5°	3.2	3.6	3.9	4.2	4.9
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	13.02	14.50	13.39	14.81	15.13	13.77	15.24	14.13	15.56	15.87
	3H	14.62	15.94	15.00	16.27	16.63	15.11	16.43	15.49	16.76	17.12
	4H	15.24	16.48	15.64	16.82	17.20	15.68	16.92	16.08	17.27	17.65
	6H	15.72	16.86	16.13	17.22	17.62	16.14	17.28	16.55	17.65	18.04
	8H	15.87	16.96	16.30	17.35	17.75	16.32	17.41	16.75	17.80	18.20
	12H	15.98	17.02	16.41	17.40	17.83	16.47	17.51	16.90	17.89	18.32
4H	2H	13.65	14.89	14.05	15.23	15.61	14.25	15.48	14.65	15.83	16.21
	3H	15.46	16.48	15.87	16.88	17.28	15.85	16.88	16.26	17.28	17.68
	4H	16.19	17.11	16.63	17.53	17.97	16.58	17.50	17.01	17.92	18.36
	6H	16.79	17.59	17.25	18.04	18.50	17.19	17.99	17.65	18.44	18.90
	8H	17.00	17.75	17.46	18.19	18.66	17.43	18.18	17.90	18.62	19.09
	12H	17.14	17.81	17.63	18.29	18.76	17.63	18.30	18.12	18.78	19.25
8H	4H	16.50	17.25	16.97	17.70	18.16	16.85	17.59	17.31	18.04	18.51
	6H	17.23	17.85	17.73	18.34	18.82	17.60	18.22	18.10	18.72	19.19
	8H	17.51	18.07	18.02	18.58	19.07	17.93	18.49	18.45	19.00	19.49
	12H	17.73	18.23	18.24	18.72	19.29	18.23	18.72	18.74	19.21	19.78
12H	4H	16.54	17.21	17.02	17.69	18.16	16.87	17.53	17.35	18.01	18.49
	6H	17.29	17.85	17.81	18.36	18.85	17.65	18.21	18.17	18.72	19.21
	8H	17.64	18.13	18.15	18.62	19.19	18.04	18.54	18.55	19.03	19.59