

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: P893041

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

Issue Date: 11/11/2024

**Test Information**

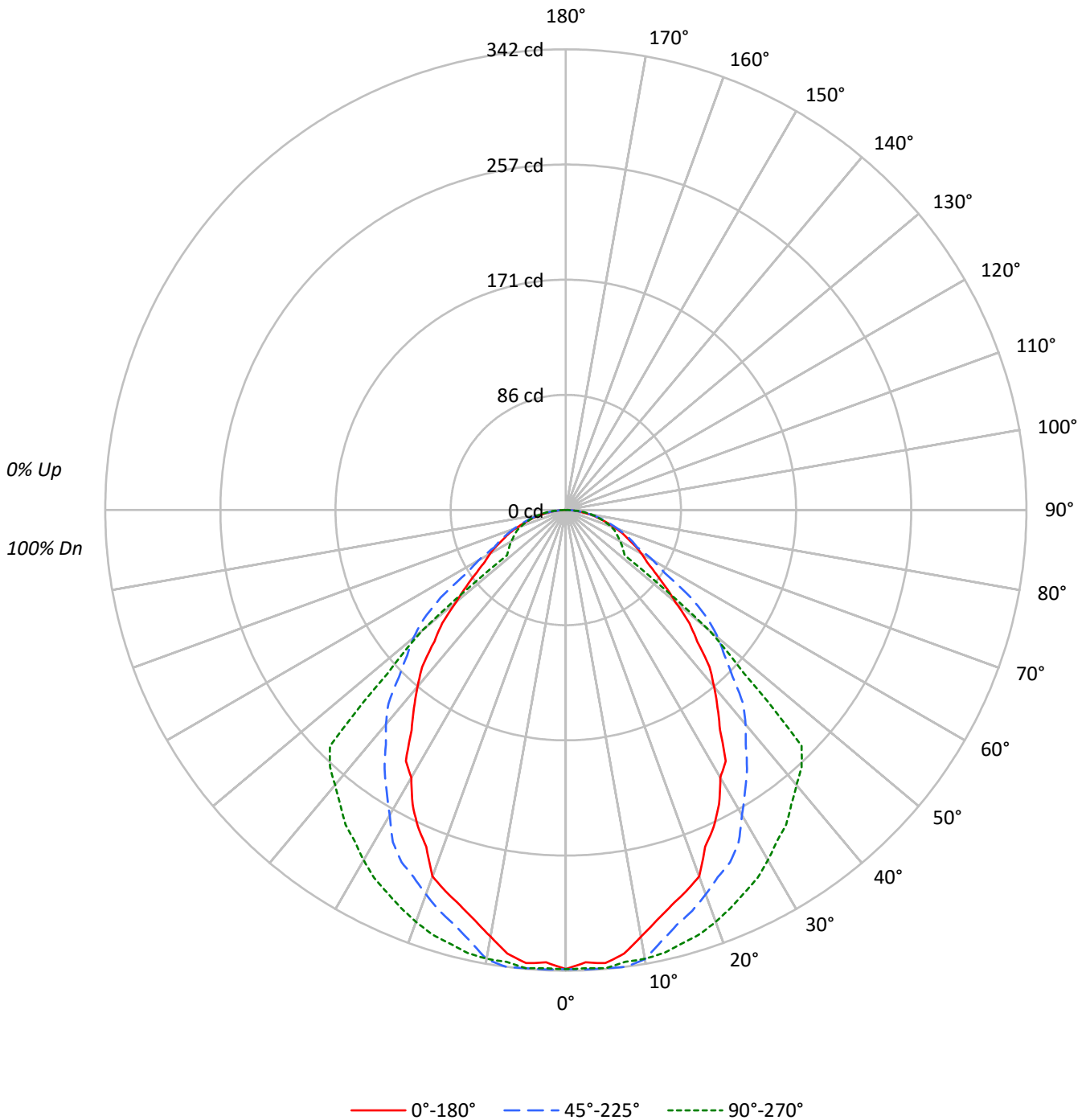
Test Method: LM-79-2019  
Report Number: P893041  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVR-UNV-CC93-LOW-3500K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT, LOW lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 711.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 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°	4875	4875	4875
5°	4849	4903	4903
10°	4672	4919	4914
15°	4496	4721	4933
20°	4406	4622	4952
25°	4099	4554	4950
30°	3789	4321	4959
35°	3486	4097	4979
40°	3197	3879	4977
45°	2792	3544	5009
50°	2364	3285	3100
55°	2008	2826	1297
60°	1860	2143	1336
65°	1730	1824	1405
70°	1631	1723	1476
75°	1503	1625	1520
80°	1376	1508	1606
85°	1215	1379	1723

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5009 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.3	4.5
10°-20°	90.5	12.7
20°-30°	131.5	18.5
30°-40°	148.9	20.9
40°-50°	139.1	19.6
50°-60°	79.0	11.1
60°-70°	49.7	7.0
70°-80°	30.5	4.3
80°-90°	9.6	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°	254.3	35.8
0°-40°	403.2	56.7
0°-60°	621.3	87.4
0°-90°	711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	711.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	341	341	341	341	341	
5°	338	341	341	340	341	32
15°	304	309	319	336	333	86
25°	260	265	288	302	314	119
35°	200	213	235	265	285	126
45°	138	152	175	223	248	108
55°	80	88	113	59	52	74
65°	51	53	54	47	42	51
75°	27	28	29	30	28	29
85°	7	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°	340.8	340.8	340.8	340.8	340.8
2.5°	336.1	339.9	341.4	341.1	340.5
5°	337.7	341.1	341.4	340.2	341.4
7.5°	332.1	340.2	342.0	338.9	338.3
10°	321.6	326.2	338.6	339.9	338.3
12.5°	312.0	317.6	327.8	339.9	336.8
15°	303.6	308.9	318.8	336.1	333.1
17.5°	296.8	298.7	312.0	332.1	330.3
20°	289.4	293.1	303.6	322.2	325.3
22.5°	270.5	280.7	295.0	313.6	319.7
25°	259.7	264.6	288.5	301.5	313.6
27.5°	246.4	255.4	278.0	292.2	308.0
30°	229.4	239.6	261.6	282.6	300.2
32.5°	221.0	224.7	247.6	274.9	291.6
35°	199.6	213.0	234.6	265.3	285.1
37.5°	185.1	193.1	219.5	256.0	275.2
40°	171.2	180.5	207.7	245.8	266.5
42.5°	157.9	166.2	195.0	235.6	259.1
45°	138.0	152.3	175.2	222.6	247.6
47.5°	124.4	133.4	159.7	206.8	179.5
50°	106.2	117.0	147.6	141.8	139.3
52.5°	92.9	98.7	133.1	119.8	55.1
55°	80.5	87.9	113.3	59.4	52.0
57.5°	71.2	76.1	87.0	55.1	49.5
60°	65.0	66.2	74.9	52.6	46.7
62.5°	58.2	59.4	59.7	49.8	44.0
65°	51.1	52.9	53.9	46.7	41.5
67.5°	45.8	46.1	47.4	43.3	39.0
70°	39.0	39.6	41.2	39.6	35.3
72.5°	33.1	34.0	35.0	35.3	31.6
75°	27.2	28.2	29.4	30.0	27.5
77.5°	22.3	22.6	23.8	25.4	23.5
80°	16.7	17.6	18.3	19.8	19.5
82.5°	12.1	12.4	13.3	14.5	15.2
85°	7.4	7.7	8.4	9.3	10.5
87.5°	3.1	3.4	3.7	4.3	5.0
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	13.22	14.70	13.58	15.01	15.33	10.97	12.45	11.33	12.76	13.07
	3H	14.81	16.13	15.18	16.46	16.82	13.30	14.62	13.68	14.95	15.31
	4H	15.41	16.65	15.81	17.00	17.38	14.24	15.48	14.65	15.83	16.21
	6H	15.87	17.01	16.28	17.38	17.77	15.04	16.18	15.45	16.55	16.94
	8H	16.02	17.11	16.45	17.50	17.90	15.34	16.43	15.77	16.82	17.22
	12H	16.12	17.16	16.55	17.55	17.98	15.59	16.63	16.02	17.01	17.44
4H	2H	13.79	15.03	14.19	15.38	15.76	12.13	13.36	12.53	13.71	14.09
	3H	15.61	16.64	16.02	17.04	17.44	14.56	15.59	14.97	15.99	16.39
	4H	16.35	17.27	16.78	17.68	18.12	15.61	16.53	16.04	16.95	17.39
	6H	16.94	17.74	17.40	18.18	18.64	16.51	17.31	16.96	17.75	18.21
	8H	17.13	17.89	17.60	18.33	18.80	16.85	17.60	17.31	18.05	18.51
	12H	17.28	17.95	17.76	18.43	18.90	17.14	17.81	17.62	18.29	18.76
8H	4H	16.65	17.40	17.12	17.85	18.31	16.01	16.76	16.48	17.21	17.68
	6H	17.37	17.99	17.87	18.49	18.96	17.06	17.68	17.55	18.17	18.65
	8H	17.65	18.21	18.16	18.72	19.21	17.49	18.05	18.01	18.56	19.05
	12H	17.86	18.36	18.37	18.85	19.42	17.88	18.37	18.39	18.87	19.43
12H	4H	16.69	17.36	17.17	17.84	18.31	16.05	16.72	16.53	17.20	17.67
	6H	17.44	18.00	17.95	18.51	19.00	17.12	17.68	17.64	18.20	18.68
	8H	17.77	18.27	18.28	18.76	19.33	17.63	18.13	18.14	18.62	19.18