

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: P893046

Luminaire Tested: 2MB-SC3-LVR-UNV-CC93-MID-5000K

Issue Date: 11/11/2024

**Test Information**

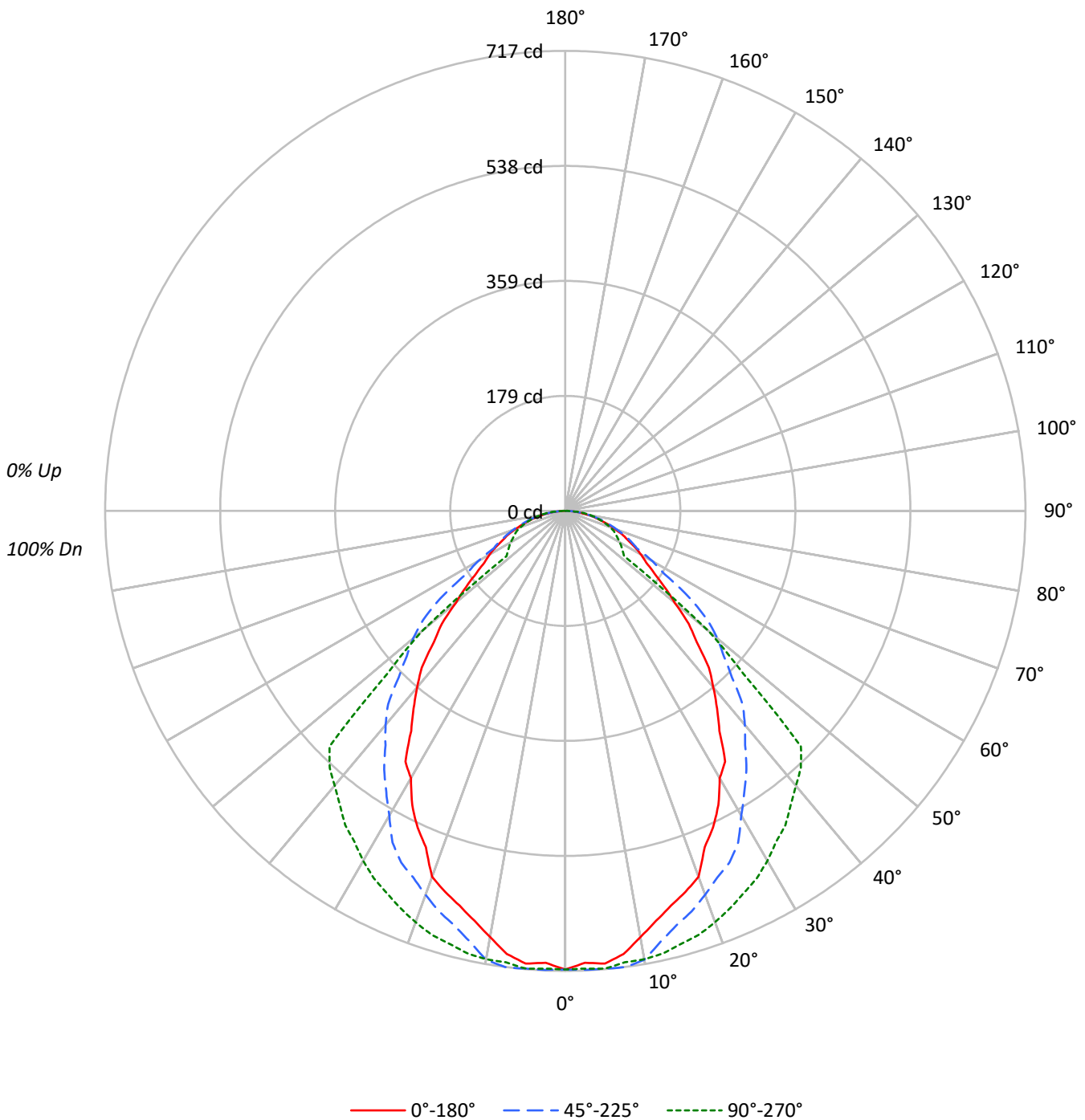
Test Method: LM-79-2019  
Report Number: P893046  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVR-UNV-CC93-MID-5000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT, MID lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1491.0 lumens  
Efficiency: N/A  
Efficacy: 107.3 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 (Ain): 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°	10224	10224	10224
5°	10170	10282	10282
10°	9796	10315	10306
15°	9431	9902	10343
20°	9239	9694	10386
25°	8596	9550	10378
30°	7945	9060	10400
35°	7312	8592	10440
40°	6702	8133	10437
45°	5857	7433	10506
50°	4954	6890	6501
55°	4210	5926	2719
60°	3900	4495	2804
65°	3625	3822	2945
70°	3421	3610	3095
75°	3156	3410	3195
80°	2892	3155	3369
85°	2561	2872	3627

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10506 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.8	4.5
10°-20°	189.7	12.7
20°-30°	275.8	18.5
30°-40°	312.2	20.9
40°-50°	291.7	19.6
50°-60°	165.7	11.1
60°-70°	104.1	7.0
70°-80°	63.9	4.3
80°-90°	20.1	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°	533.3	35.8
0°-40°	845.5	56.7
0°-60°	1302.9	87.4
0°-90°	1491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1491.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	708	715	716	713	716	66
15°	637	648	669	705	698	180
25°	545	555	605	632	658	250
35°	419	447	492	556	598	264
45°	290	319	367	467	519	225
55°	169	184	238	125	109	155
65°	107	111	113	98	87	107
75°	57	59	62	63	58	61
85°	16	16	18	20	22	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	714.7	714.7	714.7	714.7	714.7
2.5°	704.9	712.7	716.0	715.3	714.0
5°	708.2	715.3	716.0	713.4	716.0
7.5°	696.5	713.4	717.3	710.8	709.5
10°	674.4	684.1	710.1	712.7	709.5
12.5°	654.3	666.0	687.4	712.7	706.2
15°	636.8	647.8	668.6	704.9	698.4
17.5°	622.5	626.4	654.3	696.5	692.6
20°	606.9	614.7	636.8	675.7	682.2
22.5°	567.3	588.7	618.6	657.5	670.5
25°	544.6	555.0	605.0	632.2	657.5
27.5°	516.7	535.5	582.9	612.7	645.8
30°	481.0	502.4	548.5	592.6	629.6
32.5°	463.5	471.2	519.3	576.4	611.4
35°	418.7	446.6	492.0	556.3	597.8
37.5°	388.2	405.0	460.2	536.8	577.0
40°	358.9	378.4	435.5	515.4	558.9
42.5°	331.0	348.6	408.9	494.0	543.3
45°	289.5	319.4	367.4	466.7	519.3
47.5°	260.9	279.8	334.9	433.6	376.5
50°	222.6	245.4	309.6	297.3	292.1
52.5°	194.7	207.1	279.1	251.2	115.5
55°	168.8	184.3	237.6	124.6	109.0
57.5°	149.3	159.7	182.4	115.5	103.9
60°	136.3	138.9	157.1	110.3	98.0
62.5°	122.0	124.6	125.3	104.5	92.2
65°	107.1	111.0	112.9	98.0	87.0
67.5°	96.1	96.7	99.3	90.9	81.8
70°	81.8	83.1	86.3	83.1	74.0
72.5°	69.5	71.4	73.3	74.0	66.2
75°	57.1	59.1	61.7	63.0	57.8
77.5°	46.7	47.4	50.0	53.2	49.3
80°	35.1	37.0	38.3	41.5	40.9
82.5°	25.3	26.0	27.9	30.5	31.8
85°	15.6	16.2	17.5	19.5	22.1
87.5°	6.5	7.1	7.8	9.1	10.4
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	15.80	17.27	16.16	17.59	17.90	13.54	15.02	13.90	15.33	15.65
	3H	17.38	18.71	17.76	19.03	19.40	15.88	17.20	16.25	17.53	17.89
	4H	17.98	19.22	18.39	19.57	19.95	16.82	18.06	17.22	18.41	18.79
	6H	18.45	19.59	18.86	19.96	20.35	17.61	18.75	18.02	19.12	19.51
	8H	18.60	19.69	19.02	20.08	20.48	17.92	19.01	18.35	19.40	19.80
	12H	18.70	19.74	19.13	20.12	20.55	18.16	19.21	18.60	19.59	20.02
4H	2H	16.37	17.61	16.77	17.95	18.33	14.70	15.93	15.10	16.28	16.66
	3H	18.19	19.21	18.60	19.61	20.01	17.14	18.16	17.55	18.56	18.96
	4H	18.92	19.84	19.35	20.26	20.70	18.18	19.11	18.62	19.52	19.96
	6H	19.51	20.31	19.97	20.76	21.22	19.08	19.88	19.54	20.32	20.79
	8H	19.71	20.46	20.17	20.90	21.37	19.42	20.17	19.89	20.62	21.09
	12H	19.85	20.52	20.33	21.00	21.47	19.71	20.38	20.19	20.86	21.33
8H	4H	19.23	19.98	19.69	20.42	20.89	18.59	19.34	19.05	19.78	20.25
	6H	19.95	20.57	20.45	21.06	21.54	19.63	20.25	20.13	20.74	21.22
	8H	20.22	20.78	20.74	21.29	21.78	20.07	20.63	20.58	21.14	21.63
	12H	20.44	20.94	20.95	21.43	21.99	20.45	20.95	20.96	21.44	22.01
12H	4H	19.26	19.93	19.74	20.41	20.88	18.62	19.30	19.11	19.77	20.25
	6H	20.01	20.57	20.53	21.08	21.57	19.70	20.26	20.21	20.77	21.26
	8H	20.35	20.84	20.86	21.34	21.90	20.20	20.70	20.71	21.19	21.76