

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: P893082

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

Issue Date: 11/11/2024

**Test Information**

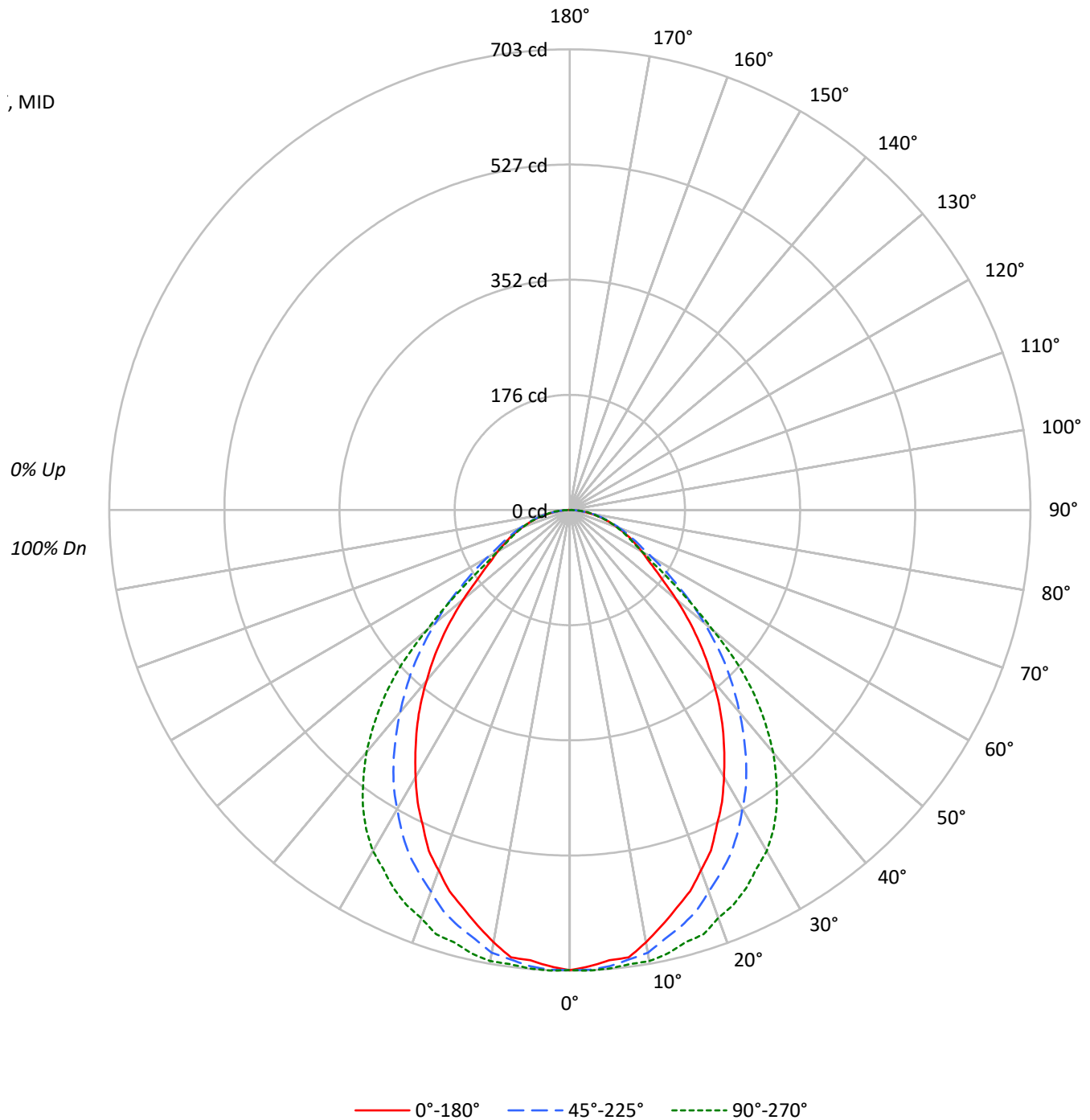
Test Method: LM-79-2019  
Report Number: P893082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVRF-UNV-CC93-MID-5000K  
Description: Selectable 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: 1423.0 lumens  
Efficiency: N/A  
Efficacy: 102.4 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): 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

TEST NUMBER: P893082  
CATALOG NUMBER: 2MB-SC3-LVRF-UNV-CC93-MID-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P893082

CATALOG NUMBER: 2MB-SC3-LVRF-UNV-CC93-MID-5000K

**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	100	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	87	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75	75	75	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	65	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57	57	57	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	51	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	45	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41	41	41	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37	37	37	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33	33	33	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31	31	31	31

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

	0°	45°	90°
0°	10044	10044	10044
5°	9906	10036	10082
10°	9728	9964	10152
15°	9313	9735	10109
20°	8910	9434	10086
25°	8378	9157	10048
30°	7772	8704	9926
35°	7106	8194	9621
40°	6349	7526	9016
45°	5566	6826	8060
50°	4707	5949	6341
55°	3981	5001	4644
60°	3639	4177	3656
65°	3449	3669	3317
70°	3229	3392	3175
75°	3012	3195	3051
80°	2776	2990	2941
85°	2446	2659	3201

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 8060 cd/sqm



TEST NUMBER: P893082

CATALOG NUMBER: 2MB-SC3-LVRF-UNV-CC93-MID-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.3	4.7
10°-20°	185.3	13.0
20°-30°	267.2	18.8
30°-40°	294.7	20.7
40°-50°	258.0	18.1
50°-60°	169.5	11.9
60°-70°	103.6	7.3
70°-80°	59.9	4.2
80°-90°	18.6	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°	518.8	36.5
0°-40°	813.5	57.2
0°-60°	1240.9	87.2
0°-90°	1423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1423.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	690	697	699	703	702	66
15°	629	639	657	679	683	177
25°	531	549	580	615	637	244
35°	407	424	469	521	551	254
45°	275	292	337	379	398	212
55°	160	168	200	201	186	146
65°	102	102	108	104	98	101
75°	54	54	58	59	55	58
85°	15	15	16	18	20	17
90°	0	0	0	0	0	



TEST NUMBER: P893082

CATALOG NUMBER: 2MB-SC3-LVRF-UNV-CC93-MID-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	702.1	702.1	702.1	702.1	702.1
2.5°	696.9	700.8	702.1	704.7	703.4
5°	689.8	696.9	698.9	702.8	702.1
7.5°	688.5	685.9	691.7	699.5	698.9
10°	669.7	674.9	685.9	697.6	698.9
12.5°	649.5	658.0	670.3	690.4	693.0
15°	628.8	639.2	657.3	678.8	682.6
17.5°	610.0	620.3	641.8	665.8	678.8
20°	585.3	599.6	619.7	649.5	662.5
22.5°	562.6	574.3	600.2	632.7	652.1
25°	530.8	549.0	580.1	615.2	636.6
27.5°	502.9	519.8	554.8	593.7	617.1
30°	470.5	489.3	526.9	570.4	600.9
32.5°	438.7	456.2	500.3	545.1	578.2
35°	406.9	424.4	469.2	521.1	550.9
37.5°	374.4	392.6	436.1	489.3	517.8
40°	340.0	360.8	403.0	455.5	482.8
42.5°	307.6	327.0	369.9	421.1	441.9
45°	275.1	292.0	337.4	379.0	398.4
47.5°	242.7	258.9	302.4	336.8	347.8
50°	211.5	226.5	267.3	288.8	284.9
52.5°	182.3	196.0	234.9	243.3	232.3
55°	159.6	168.1	200.5	201.2	186.2
57.5°	140.8	147.3	172.6	166.1	149.9
60°	127.2	129.1	146.0	138.9	127.8
62.5°	113.6	114.9	123.9	118.7	110.3
65°	101.9	101.9	108.4	103.8	98.0
67.5°	88.9	89.5	94.1	91.5	87.0
70°	77.2	77.2	81.1	81.1	75.9
72.5°	65.5	65.5	68.8	69.4	66.2
75°	54.5	54.5	57.8	59.0	55.2
77.5°	44.1	44.1	46.7	48.7	44.1
80°	33.7	33.7	36.3	38.3	35.7
82.5°	24.0	24.7	26.0	27.9	27.9
85°	14.9	14.9	16.2	17.5	19.5
87.5°	6.5	7.1	7.8	8.4	9.7
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P893082  
 CATALOG NUMBER: 2MB-SC3-LVRF-UNV-CC93-MID-5000K

**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	15.43	16.90	15.79	17.22	17.53	16.17	17.65	16.54	17.96	18.28
	3H	17.03	18.35	17.40	18.67	19.04	17.51	18.83	17.89	19.16	19.52
	4H	17.64	18.88	18.04	19.23	19.61	18.09	19.32	18.49	19.67	20.05
	6H	18.12	19.26	18.53	19.63	20.02	18.54	19.68	18.96	20.05	20.44
	8H	18.28	19.36	18.70	19.75	20.15	18.72	19.81	19.15	20.20	20.60
	12H	18.38	19.42	18.81	19.80	20.23	18.87	19.91	19.31	20.30	20.73
4H	2H	16.05	17.29	16.45	17.64	18.02	16.65	17.89	17.05	18.24	18.62
	3H	17.86	18.89	18.27	19.29	19.69	18.26	19.28	18.67	19.68	20.08
	4H	18.60	19.52	19.03	19.93	20.37	18.99	19.91	19.42	20.32	20.76
	6H	19.19	20.00	19.65	20.44	20.90	19.60	20.40	20.05	20.84	21.30
	8H	19.40	20.15	19.86	20.59	21.06	19.83	20.58	20.30	21.03	21.50
	12H	19.55	20.22	20.03	20.69	21.17	20.04	20.71	20.52	21.19	21.66
8H	4H	18.91	19.66	19.37	20.10	20.57	19.25	20.00	19.72	20.45	20.91
	6H	19.63	20.25	20.13	20.74	21.22	20.01	20.63	20.51	21.12	21.60
	8H	19.91	20.47	20.43	20.98	21.47	20.33	20.89	20.85	21.40	21.89
	12H	20.14	20.63	20.65	21.12	21.69	20.63	21.12	21.14	21.62	22.18
12H	4H	18.94	19.61	19.42	20.09	20.56	19.27	19.94	19.76	20.42	20.89
	6H	19.70	20.25	20.21	20.77	21.25	20.06	20.61	20.57	21.12	21.61
	8H	20.04	20.53	20.55	21.03	21.59	20.44	20.94	20.95	21.43	22.00