

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: P893078

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

Issue Date: 11/11/2024

**Test Information**

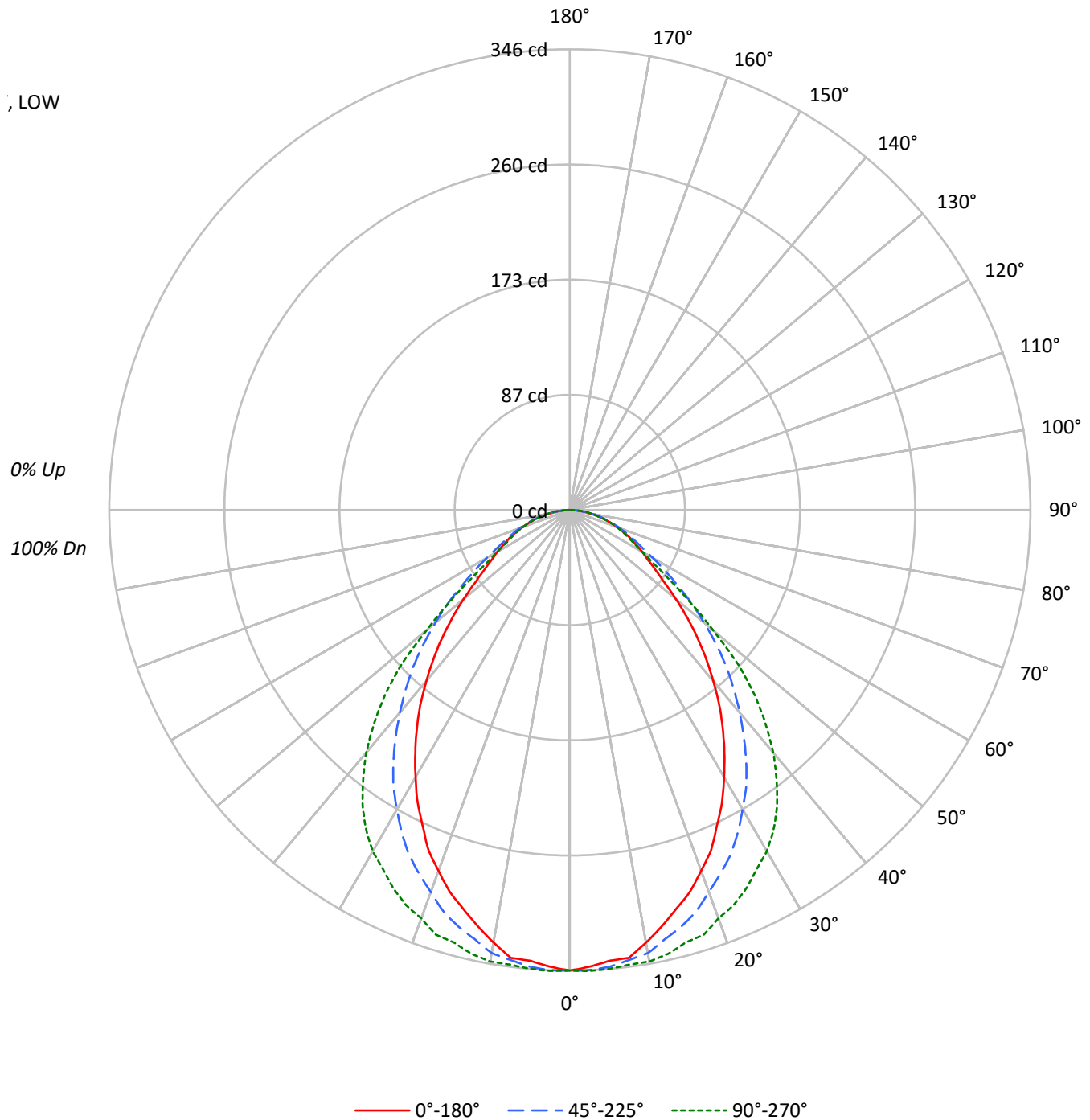
Test Method: LM-79-2019  
Report Number: P893078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVRF-UNV-CC93-LOW-4000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 4000K CCT  
lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 701.0 lumens  
Efficiency: N/A  
Efficacy: 101.6 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

TEST NUMBER: P893078  
CATALOG NUMBER: 2MB-SC3-LVRF-UNV-CC93-LOW-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P893078  
 CATALOG NUMBER: 2MB-SC3-LVRF-UNV-CC93-LOW-4000K

**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°	4948	4948	4948
5°	4880	4944	4967
10°	4792	4908	5001
15°	4588	4796	4981
20°	4389	4648	4969
25°	4128	4511	4950
30°	3829	4288	4889
35°	3500	4036	4740
40°	3128	3707	4441
45°	2741	3362	3971
50°	2319	2931	3122
55°	1960	2464	2287
60°	1794	2057	1802
65°	1699	1808	1635
70°	1589	1673	1564
75°	1487	1570	1503
80°	1368	1475	1450
85°	1215	1313	1576

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3971 cd/sqm



TEST NUMBER: P893078

CATALOG NUMBER: 2MB-SC3-LVRF-UNV-CC93-LOW-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.6	4.7
10°-20°	91.3	13.0
20°-30°	131.6	18.8
30°-40°	145.2	20.7
40°-50°	127.1	18.1
50°-60°	83.5	11.9
60°-70°	51.0	7.3
70°-80°	29.5	4.2
80°-90°	9.2	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°	255.5	36.5
0°-40°	400.7	57.2
0°-60°	611.3	87.2
0°-90°	701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	701.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	346	346	346	346	346	
5°	340	343	344	346	346	32
15°	310	315	324	334	336	87
25°	262	270	286	303	314	120
35°	200	209	231	257	271	125
45°	136	144	166	187	196	104
55°	79	83	99	99	92	72
65°	50	50	53	51	48	50
75°	27	27	28	29	27	29
85°	7	7	8	9	10	8
90°	0	0	0	0	0	



TEST NUMBER: P893078

CATALOG NUMBER: 2MB-SC3-LVRF-UNV-CC93-LOW-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	345.9	345.9	345.9	345.9	345.9
2.5°	343.3	345.2	345.9	347.2	346.5
5°	339.8	343.3	344.3	346.2	345.9
7.5°	339.2	337.9	340.8	344.6	344.3
10°	329.9	332.4	337.9	343.6	344.3
12.5°	320.0	324.1	330.2	340.1	341.4
15°	309.8	314.9	323.8	334.4	336.3
17.5°	300.5	305.6	316.1	328.0	334.4
20°	288.3	295.4	305.3	320.0	326.4
22.5°	277.1	282.9	295.7	311.7	321.3
25°	261.5	270.4	285.8	303.0	313.6
27.5°	247.7	256.0	273.3	292.5	304.0
30°	231.8	241.0	259.6	281.0	296.0
32.5°	216.1	224.7	246.5	268.5	284.8
35°	200.4	209.1	231.1	256.7	271.4
37.5°	184.4	193.4	214.8	241.0	255.1
40°	167.5	177.7	198.5	224.4	237.8
42.5°	151.5	161.1	182.2	207.5	217.7
45°	135.5	143.8	166.2	186.7	196.3
47.5°	119.6	127.5	149.0	165.9	171.3
50°	104.2	111.6	131.7	142.2	140.3
52.5°	89.8	96.5	115.7	119.9	114.4
55°	78.6	82.8	98.8	99.1	91.7
57.5°	69.4	72.6	85.0	81.8	73.8
60°	62.7	63.6	71.9	68.4	63.0
62.5°	55.9	56.6	61.1	58.5	54.3
65°	50.2	50.2	53.4	51.1	48.3
67.5°	43.8	44.1	46.4	45.1	42.8
70°	38.0	38.0	40.0	40.0	37.4
72.5°	32.3	32.3	33.9	34.2	32.6
75°	26.9	26.9	28.4	29.1	27.2
77.5°	21.7	21.7	23.0	24.0	21.7
80°	16.6	16.6	17.9	18.9	17.6
82.5°	11.8	12.1	12.8	13.7	13.7
85°	7.4	7.4	8.0	8.6	9.6
87.5°	3.2	3.5	3.8	4.2	4.8
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P893078  
 CATALOG NUMBER: 2MB-SC3-LVRF-UNV-CC93-LOW-4000K

**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	12.97	14.45	13.34	14.76	15.08	13.71	15.19	14.08	15.50	15.81
	3H	14.57	15.89	14.95	16.22	16.58	15.05	16.37	15.43	16.70	17.06
	4H	15.19	16.42	15.59	16.77	17.15	15.63	16.86	16.03	17.21	17.59
	6H	15.66	16.80	16.07	17.17	17.56	16.08	17.22	16.49	17.59	17.98
	8H	15.82	16.90	16.25	17.29	17.70	16.26	17.35	16.69	17.74	18.14
	12H	15.92	16.96	16.35	17.35	17.78	16.41	17.45	16.84	17.83	18.26
4H	2H	13.60	14.83	14.00	15.18	15.56	14.19	15.43	14.59	15.78	16.16
	3H	15.40	16.43	15.81	16.83	17.23	15.80	16.82	16.21	17.22	17.62
	4H	16.14	17.06	16.57	17.48	17.92	16.53	17.45	16.96	17.86	18.30
	6H	16.74	17.54	17.19	17.98	18.44	17.14	17.94	17.60	18.38	18.84
	8H	16.94	17.69	17.40	18.13	18.60	17.37	18.12	17.84	18.57	19.04
	12H	17.09	17.76	17.57	18.24	18.71	17.58	18.25	18.06	18.72	19.20
8H	4H	16.45	17.20	16.91	17.64	18.11	16.79	17.54	17.26	17.99	18.45
	6H	17.17	17.79	17.67	18.28	18.76	17.55	18.17	18.05	18.66	19.14
	8H	17.45	18.01	17.97	18.52	19.01	17.87	18.43	18.39	18.94	19.43
	12H	17.68	18.17	18.19	18.66	19.23	18.17	18.66	18.68	19.15	19.72
12H	4H	16.48	17.15	16.97	17.63	18.10	16.81	17.48	17.30	17.96	18.43
	6H	17.24	17.80	17.75	18.31	18.80	17.60	18.15	18.11	18.67	19.15
	8H	17.58	18.07	18.09	18.57	19.13	17.98	18.48	18.49	18.97	19.54