

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: P893059

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

Issue Date: 11/11/2024

**Test Information**

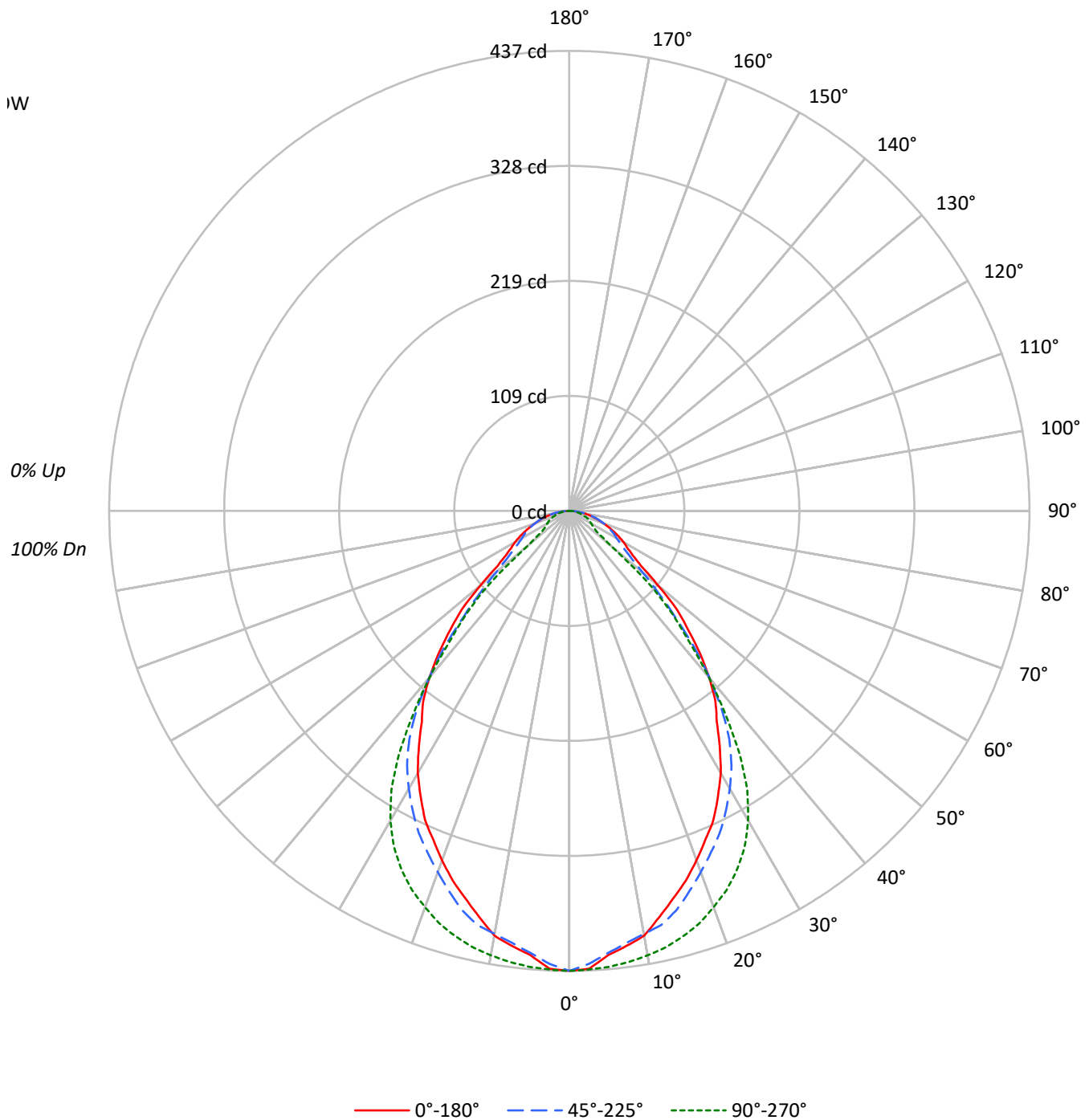
Test Method: LM-79-2019  
Report Number: P893059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVRA-UNV-CC93-LOW-3500K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3500K CCT, LO lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 709.0 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12  
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

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

	0°	45°	90°
0°	6250	6250	6250
5°	6082	6053	6242
10°	5951	5925	6227
15°	5644	5817	6194
20°	5377	5558	6099
25°	5114	5334	5943
30°	4752	5035	5611
35°	4261	4626	4921
40°	3860	3869	3847
45°	3227	2859	2788
50°	2439	2012	1139
55°	1833	1609	718
60°	1705	1482	692
65°	1584	1479	694
70°	1451	1451	682
75°	1376	1415	658
80°	1269	1335	676
85°	1116	1165	739

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3304 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.4	5.7
10°-20°	111.2	15.7
20°-30°	157.7	22.2
30°-40°	162.4	22.9
40°-50°	113.5	16.0
50°-60°	54.4	7.7
60°-70°	38.2	5.4
70°-80°	23.9	3.4
80°-90°	7.4	1.0
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°	309.2	43.6
0°-40°	471.6	66.5
0°-60°	639.5	90.2
0°-90°	709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	709.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	437	437	437	437	437	
5°	424	423	422	433	435	40
15°	381	384	393	404	418	107
25°	324	327	338	361	376	148
35°	244	251	265	270	282	154
45°	160	163	141	134	138	123
55°	74	70	64	41	29	69
65°	47	44	44	33	20	46
75°	25	24	26	22	12	26
85°	7	7	7	7	4	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	436.9	436.9	436.9	436.9	436.9
2.5°	435.2	433.8	430.6	436.5	436.1
5°	423.5	422.9	421.5	432.6	434.7
7.5°	416.8	415.7	414.1	426.3	432.2
10°	409.7	411.1	407.9	419.1	428.7
12.5°	395.1	398.7	403.0	411.6	424.5
15°	381.1	383.9	392.8	404.1	418.2
17.5°	368.1	371.3	379.0	395.9	410.8
20°	353.2	357.7	365.1	386.8	400.6
22.5°	337.9	342.1	351.4	374.6	390.0
25°	324.0	327.3	337.9	360.7	376.5
27.5°	305.7	311.8	321.8	343.9	360.4
30°	287.7	292.9	304.8	323.4	339.7
32.5°	265.9	273.5	286.7	300.8	314.5
35°	244.0	250.6	264.9	270.4	281.8
37.5°	228.0	229.8	237.9	237.2	243.6
40°	206.7	210.3	207.2	198.7	206.0
42.5°	183.7	188.0	175.3	165.5	168.1
45°	159.5	163.3	141.3	134.1	137.8
47.5°	138.6	138.3	113.9	109.1	103.9
50°	109.6	113.2	90.4	81.4	51.2
52.5°	85.6	86.9	74.5	52.0	33.7
55°	73.5	69.9	64.5	41.3	28.8
57.5°	65.3	60.8	57.2	38.4	26.3
60°	59.6	54.5	51.8	36.5	24.2
62.5°	53.0	49.1	48.1	34.8	22.3
65°	46.8	43.8	43.7	33.2	20.5
67.5°	40.6	39.0	39.4	31.3	18.5
70°	34.7	34.3	34.7	28.8	16.3
72.5°	29.6	29.3	30.2	25.7	14.0
75°	24.9	24.5	25.6	22.1	11.9
77.5°	19.8	20.0	20.7	18.4	10.0
80°	15.4	15.4	16.2	14.4	8.2
82.5°	11.0	11.1	11.6	10.6	6.4
85°	6.8	6.8	7.1	7.0	4.5
87.5°	2.3	2.6	3.0	3.3	2.3
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	12.01	13.37	12.38	13.68	13.99	8.35	9.70	8.71	10.01	10.33
	3H	13.75	14.96	14.13	15.29	15.65	10.32	11.53	10.70	11.86	12.22
	4H	14.42	15.55	14.83	15.90	16.28	11.03	12.15	11.43	12.50	12.89
	6H	14.93	15.97	15.34	16.34	16.73	11.55	12.59	11.96	12.96	13.35
	8H	15.10	16.08	15.53	16.47	16.88	11.73	12.72	12.16	13.11	13.51
	12H	15.21	16.15	15.64	16.53	16.96	11.87	12.81	12.30	13.20	13.63
4H	2H	12.54	13.67	12.95	14.02	14.40	9.97	11.10	10.37	11.45	11.83
	3H	14.52	15.45	14.93	15.85	16.26	12.15	13.08	12.56	13.48	13.88
	4H	15.32	16.16	15.76	16.58	17.02	13.03	13.86	13.46	14.28	14.72
	6H	15.96	16.69	16.43	17.13	17.60	13.67	14.39	14.13	14.84	15.30
	8H	16.18	16.86	16.65	17.31	17.78	13.88	14.56	14.35	15.00	15.47
	12H	16.34	16.94	16.82	17.42	17.89	14.04	14.64	14.52	15.12	15.59
8H	4H	15.61	16.28	16.07	16.73	17.20	13.68	14.35	14.14	14.80	15.27
	6H	16.39	16.94	16.89	17.44	17.92	14.54	15.09	15.04	15.59	16.07
	8H	16.69	17.19	17.21	17.70	18.19	14.86	15.36	15.38	15.88	16.37
	12H	16.92	17.36	17.44	17.86	18.43	15.13	15.57	15.64	16.06	16.63
12H	4H	15.62	16.22	16.11	16.71	17.18	13.75	14.35	14.23	14.83	15.30
	6H	16.44	16.94	16.96	17.45	17.94	14.67	15.17	15.19	15.69	16.18
	8H	16.80	17.24	17.32	17.74	18.31	15.09	15.53	15.60	16.02	16.59