

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: P892673

Luminaire Tested: 2MB-3SL-RFLW-UNV-L930

Issue Date: 11/11/2024

**Test Information**

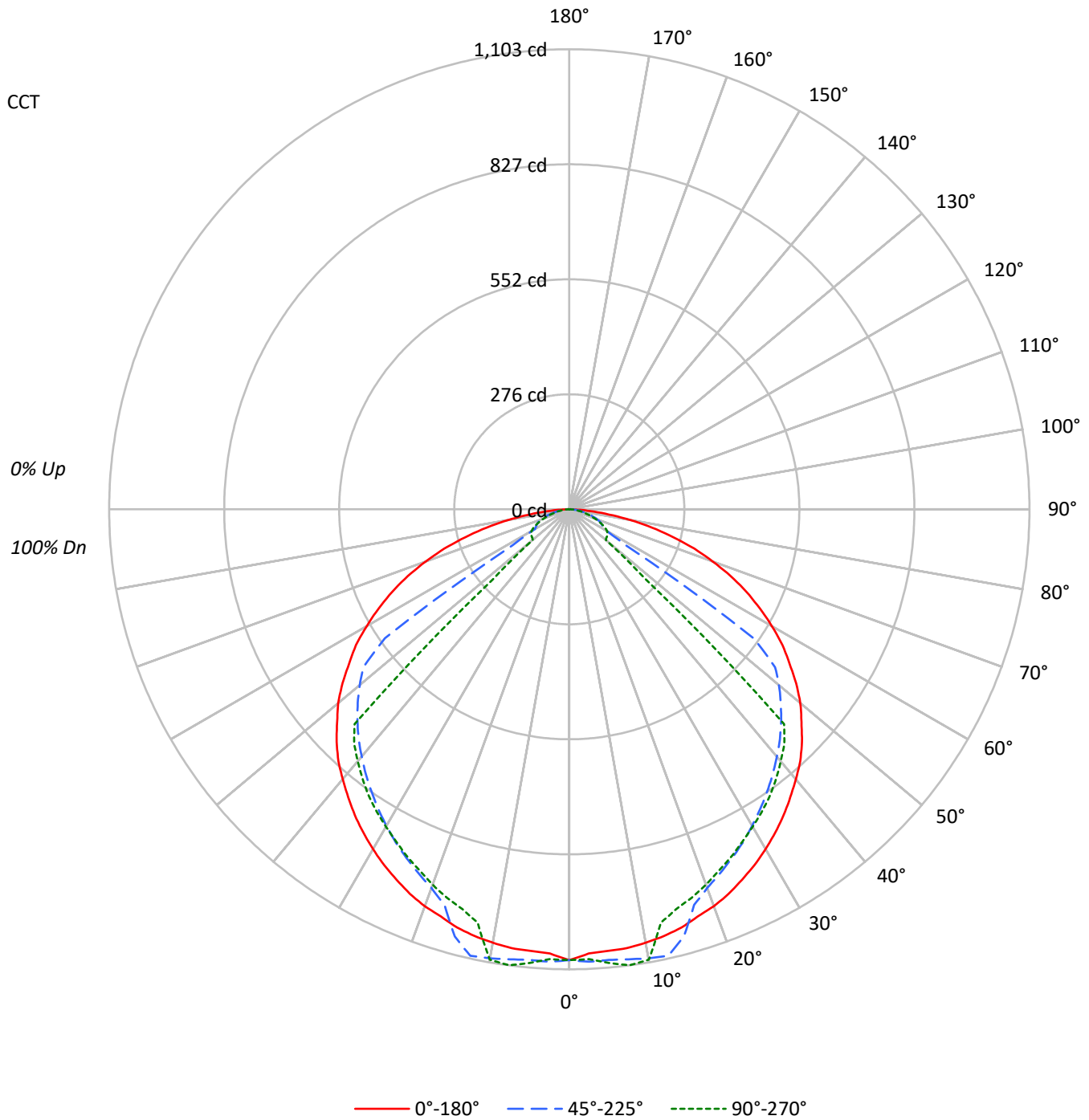
Test Method: LM-79-2019  
Report Number: P892673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-3SL-RFLW-UNV-L930  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3000K  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2538.0 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.37  
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 8  
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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	67	67	67	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	58	56
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	51	51	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	46	46	46	44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	41	41	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	29

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

	0°	45°	90°
0°	28220	28220	28220
5°	27848	28422	28614
10°	27977	28976	29074
15°	28064	28656	26813
20°	28136	26850	26614
25°	28225	26577	26474
30°	28365	26421	26493
35°	28551	26342	26728
40°	28789	26382	26880
45°	29121	26514	26876
50°	29366	26649	4647
55°	29309	24543	5043
60°	29298	4955	5467
65°	28949	5263	5412
70°	27969	5481	5015
75°	26025	5155	4418
80°	22327	4571	3849
85°	14948	4374	3295

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 29456 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.6	4.1
10°-20°	292.0	11.5
20°-30°	437.0	17.2
30°-40°	526.9	20.8
40°-50°	530.6	20.9
50°-60°	331.0	13.0
60°-70°	208.1	8.2
70°-80°	86.5	3.4
80°-90°	22.2	0.9
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°	832.7	32.8
0°-40°	1359.5	53.6
0°-60°	2221.1	87.5
0°-90°	2538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2538.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1063	1084	1084	1086	1092	101
15°	1038	1070	1060	992	992	293
25°	980	1018	923	915	919	452
35°	896	839	826	831	839	561
45°	789	713	718	728	728	608
55°	644	567	539	106	111	577
65°	469	405	85	89	88	462
75°	258	62	51	45	44	272
85°	50	18	15	11	11	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1080.9	1080.9	1080.9	1080.9	1080.9
2.5°	1066.2	1085.7	1085.7	1080.9	1079.6
5°	1062.6	1084.5	1084.5	1085.7	1091.8
7.5°	1061.4	1082.1	1088.2	1095.5	1102.8
10°	1055.3	1079.6	1093.0	1102.8	1096.7
12.5°	1048.0	1074.8	1096.7	1034.6	1015.1
15°	1038.3	1069.9	1060.2	992.0	992.0
17.5°	1023.6	1062.6	994.4	975.0	976.2
20°	1012.7	1056.5	966.4	955.5	957.9
22.5°	998.1	1044.3	944.5	934.8	937.2
25°	979.8	1017.6	922.6	915.3	919.0
27.5°	961.6	962.8	900.7	895.8	898.3
30°	940.9	910.4	876.4	875.2	878.8
32.5°	919.0	871.5	852.0	854.5	859.3
35°	895.8	838.6	826.5	831.3	838.6
37.5°	870.3	808.2	800.9	809.4	814.3
40°	844.7	776.6	774.1	782.6	788.7
42.5°	819.2	746.1	747.3	755.9	763.2
45°	788.7	713.3	718.1	727.9	727.9
47.5°	754.7	678.0	687.7	667.0	247.1
50°	723.0	642.7	656.1	197.2	114.4
52.5°	685.3	604.9	622.0	108.3	112.0
55°	643.9	567.2	539.2	105.9	110.8
57.5°	606.2	528.3	160.7	104.7	108.3
60°	561.1	489.3	94.9	102.2	104.7
62.5°	514.9	447.9	90.1	97.4	97.4
65°	468.6	405.3	85.2	88.9	87.6
67.5°	418.7	361.5	80.3	77.9	76.7
70°	366.4	222.7	71.8	66.9	65.7
72.5°	314.0	76.7	62.1	56.0	54.8
75°	258.0	62.1	51.1	45.0	43.8
77.5°	203.3	51.1	40.2	35.3	34.1
80°	148.5	38.9	30.4	26.8	25.6
82.5°	96.2	28.0	23.1	18.3	17.0
85°	49.9	18.3	14.6	11.0	11.0
87.5°	19.5	11.0	7.3	4.9	3.7
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	24.60	26.11	24.96	26.42	26.74	13.24	14.75	13.60	15.06	15.38
	3H	26.52	27.87	26.89	28.20	28.56	15.37	16.72	15.74	17.05	17.41
	4H	27.00	28.27	27.40	28.62	29.00	16.05	17.32	16.45	17.67	18.05
	6H	27.44	28.60	27.85	28.97	29.36	16.51	17.68	16.93	18.05	18.44
	8H	27.58	28.69	28.00	29.08	29.48	16.65	17.76	17.08	18.15	18.55
	12H	27.65	28.72	28.08	29.10	29.53	16.74	17.80	17.17	18.18	18.61
4H	2H	24.44	25.71	24.84	26.06	26.44	13.99	15.25	14.39	15.60	15.98
	3H	26.47	27.51	26.88	27.92	28.32	16.33	17.37	16.74	17.77	18.17
	4H	26.96	27.90	27.39	28.31	28.75	17.12	18.06	17.55	18.47	18.91
	6H	27.47	28.28	27.93	28.73	29.19	17.69	18.51	18.15	18.95	19.41
	8H	27.66	28.42	28.12	28.86	29.33	17.87	18.62	18.33	19.07	19.54
	12H	27.78	28.46	28.27	28.94	29.41	17.99	18.66	18.47	19.14	19.61
8H	4H	26.88	27.64	27.35	28.09	28.55	17.71	18.47	18.17	18.91	19.38
	6H	27.39	28.02	27.89	28.51	28.99	18.36	18.99	18.86	19.48	19.96
	8H	27.59	28.16	28.11	28.67	29.16	18.59	19.15	19.10	19.66	20.15
	12H	27.75	28.25	28.26	28.74	29.31	18.76	19.26	19.27	19.75	20.32
12H	4H	26.85	27.53	27.34	28.01	28.48	17.79	18.47	18.27	18.95	19.42
	6H	27.35	27.91	27.86	28.42	28.91	18.47	19.04	18.99	19.55	20.04
	8H	27.57	28.07	28.08	28.56	29.13	18.76	19.26	19.27	19.75	20.31