

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: P892539

Luminaire Tested: 2MB-2SL-LVR-UNV-L940

Issue Date: 11/11/2024

**Test Information**

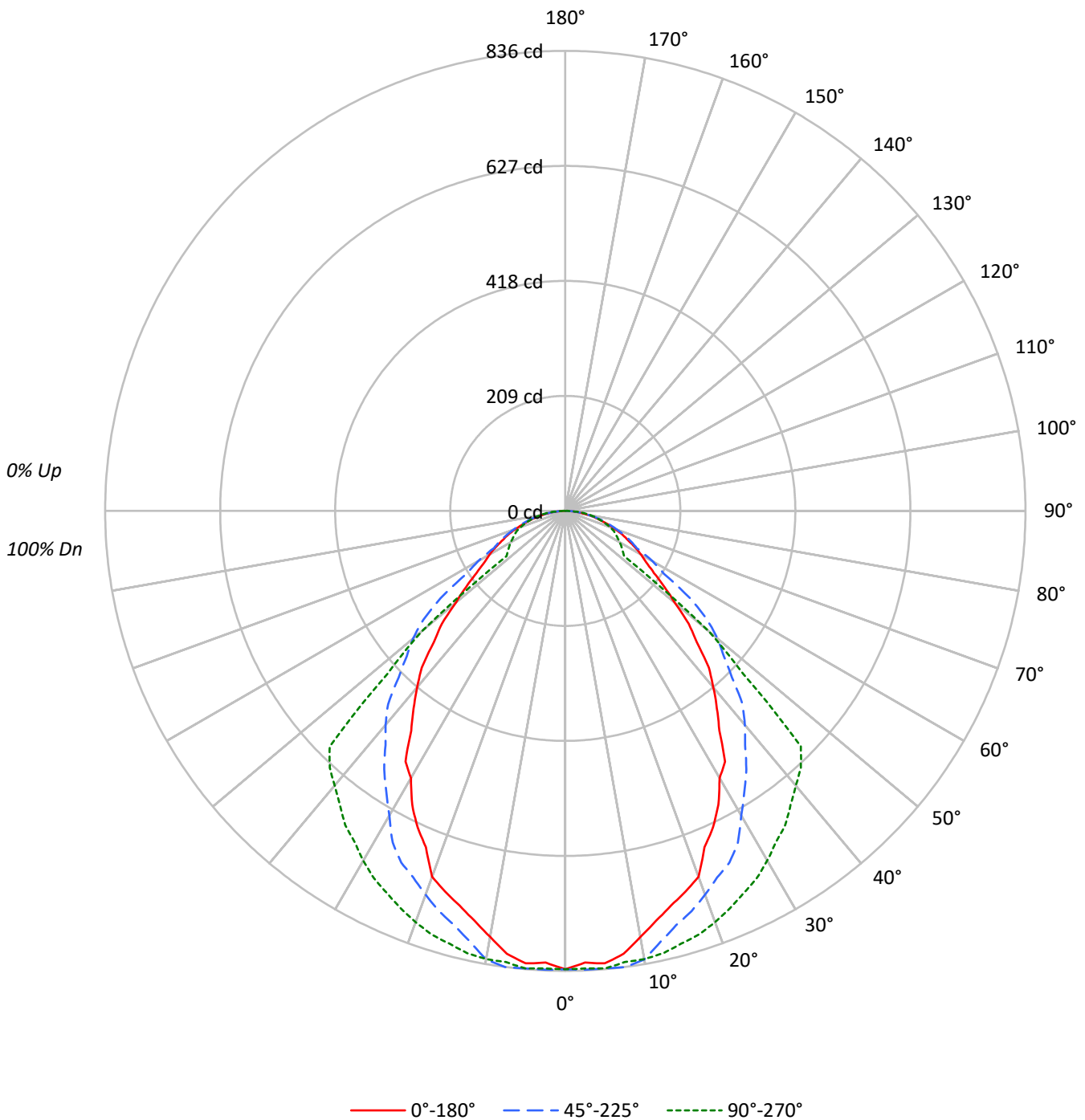
Test Method: LM-79-2019  
Report Number: P892539  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-2SL-LVR-UNV-L940  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1738.0 lumens  
Efficiency: N/A  
Efficacy: 116.6 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): 14.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.92  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

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

	0°	45°	90°
0°	11916	11916	11916
5°	11854	11985	11985
10°	11419	12023	12013
15°	10992	11542	12057
20°	10769	11299	12106
25°	10020	11131	12099
30°	9262	10560	12123
35°	8522	10015	12171
40°	7813	9481	12166
45°	6828	8663	12246
50°	5775	8032	7578
55°	4906	6906	3170
60°	4546	5239	3270
65°	4224	4458	3432
70°	3986	4208	3610
75°	3681	3974	3720
80°	3369	3674	3930
85°	2987	3348	4218

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 12246 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.0	4.5
10°-20°	221.2	12.7
20°-30°	321.4	18.5
30°-40°	364.0	20.9
40°-50°	340.0	19.6
50°-60°	193.2	11.1
60°-70°	121.4	7.0
70°-80°	74.5	4.3
80°-90°	23.4	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°	621.6	35.8
0°-40°	985.6	56.7
0°-60°	1518.7	87.4
0°-90°	1738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1738.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	826	834	835	832	835	77
15°	742	755	779	822	814	210
25°	635	647	705	737	766	291
35°	488	521	574	648	697	308
45°	338	372	428	544	605	263
55°	197	215	277	145	127	180
65°	125	129	132	114	101	125
75°	67	69	72	73	67	71
85°	18	19	20	23	26	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	833.0	833.0	833.0	833.0	833.0
2.5°	821.7	830.8	834.6	833.8	832.3
5°	825.5	833.8	834.6	831.5	834.6
7.5°	811.9	831.5	836.1	828.5	827.0
10°	786.1	797.5	827.7	830.8	827.0
12.5°	762.7	776.3	801.3	830.8	823.2
15°	742.2	755.1	779.3	821.7	814.1
17.5°	725.6	730.1	762.7	811.9	807.3
20°	707.4	716.5	742.2	787.6	795.2
22.5°	661.3	686.3	721.1	766.5	781.6
25°	634.8	646.9	705.2	737.0	766.5
27.5°	602.3	624.2	679.4	714.3	752.8
30°	560.7	585.6	639.3	690.8	733.9
32.5°	540.2	549.3	605.3	671.9	712.7
35°	488.0	520.6	573.5	648.4	696.9
37.5°	452.5	472.1	536.4	625.7	672.6
40°	418.4	441.1	507.7	600.8	651.5
42.5°	385.9	406.3	476.7	575.8	633.3
45°	337.5	372.3	428.2	544.0	605.3
47.5°	304.2	326.1	390.4	505.4	438.8
50°	259.5	286.0	360.9	346.5	340.5
52.5°	227.0	241.4	325.3	292.8	134.7
55°	196.7	214.9	276.9	145.3	127.1
57.5°	174.0	186.1	212.6	134.7	121.1
60°	158.9	161.9	183.1	128.6	114.3
62.5°	142.2	145.3	146.0	121.8	107.4
65°	124.8	129.4	131.7	114.3	101.4
67.5°	112.0	112.7	115.8	105.9	95.3
70°	95.3	96.8	100.6	96.8	86.3
72.5°	81.0	83.2	85.5	86.3	77.2
75°	66.6	68.9	71.9	73.4	67.3
77.5°	54.5	55.2	58.3	62.0	57.5
80°	40.9	43.1	44.6	48.4	47.7
82.5°	29.5	30.3	32.5	35.6	37.1
85°	18.2	18.9	20.4	22.7	25.7
87.5°	7.6	8.3	9.1	10.6	12.1
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	16.33	17.80	16.69	18.12	18.43	14.07	15.55	14.44	15.87	16.18
	3H	17.91	19.24	18.29	19.56	19.93	16.41	17.73	16.79	18.06	18.42
	4H	18.52	19.76	18.92	20.10	20.48	17.35	18.59	17.75	18.94	19.32
	6H	18.98	20.12	19.39	20.49	20.88	18.14	19.29	18.56	19.65	20.05
	8H	19.13	20.22	19.56	20.61	21.01	18.45	19.54	18.88	19.93	20.33
	12H	19.23	20.27	19.66	20.65	21.08	18.70	19.74	19.13	20.12	20.55
4H	2H	16.90	18.14	17.30	18.49	18.87	15.23	16.47	15.63	16.82	17.20
	3H	18.72	19.74	19.13	20.14	20.55	17.67	18.69	18.08	19.09	19.50
	4H	19.45	20.37	19.89	20.79	21.23	18.72	19.64	19.15	20.06	20.50
	6H	20.04	20.85	20.50	21.29	21.75	19.61	20.41	20.07	20.86	21.32
	8H	20.24	20.99	20.71	21.44	21.90	19.96	20.71	20.42	21.15	21.62
	12H	20.38	21.05	20.87	21.53	22.01	20.24	20.91	20.73	21.39	21.86
8H	4H	19.76	20.51	20.22	20.95	21.42	19.12	19.87	19.58	20.31	20.78
	6H	20.48	21.10	20.98	21.59	22.07	20.16	20.78	20.66	21.28	21.75
	8H	20.75	21.31	21.27	21.82	22.31	20.60	21.16	21.12	21.67	22.16
	12H	20.97	21.47	21.48	21.96	22.53	20.98	21.48	21.50	21.97	22.54
12H	4H	19.79	20.46	20.28	20.94	21.41	19.16	19.83	19.64	20.31	20.78
	6H	20.54	21.10	21.06	21.62	22.10	20.23	20.79	20.74	21.30	21.79
	8H	20.88	21.38	21.39	21.87	22.43	20.74	21.23	21.25	21.72	22.29