

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: P892513

Luminaire Tested: 2MB-2SL-ASYMR-UNV-L930

Issue Date: 11/11/2024

**Test Information**

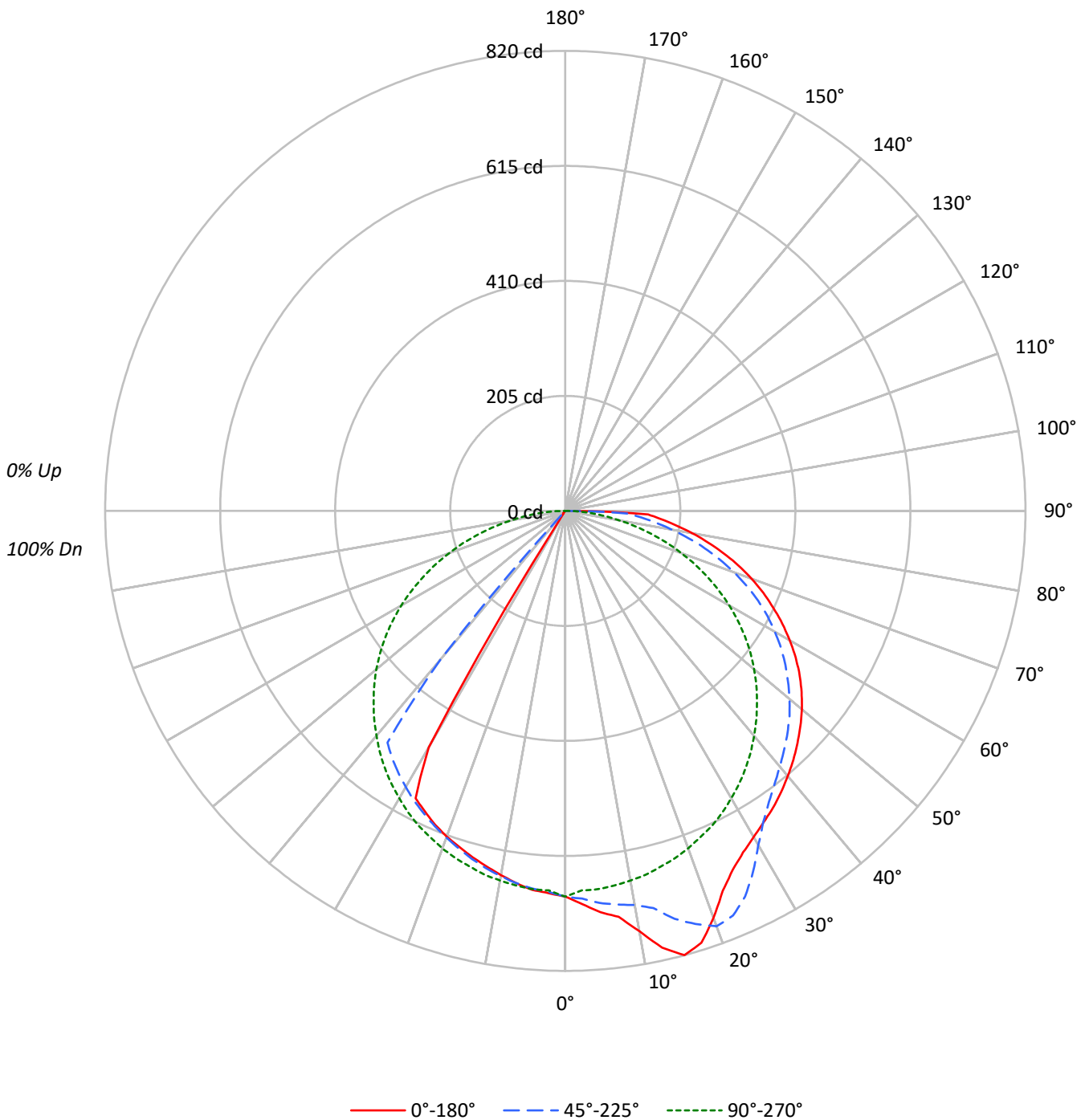
Test Method: LM-79-2019  
Report Number: P892513  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-2SL-ASYMR-UNV-L930  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1860.0 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25  
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.9  
Input Voltage (V):  
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	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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83	83	83	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69	69	69	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59	59	59	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50	50	50	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39	39	39	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35	35	35	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31	31	31	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28	28	28	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26	26	26	26

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

	0°	45°	90°	135°	180°
0°	17949	17949	17949	17949	17949
5°	18822	18387	17737	17706	17769
10°	20167	18913	17736	17526	17473
15°	22158	20347	17742	17358	17271
20°	21452	21891	17787	17217	17165
25°	20326	21844	17831	17160	17036
30°	20238	20738	17829	17142	14672
35°	20580	20165	17858	17141	201
40°	21028	20261	17835	11823	133
45°	21603	20673	17837	218	89
50°	22355	21190	17847	158	32
55°	23210	21794	17797	109	18
60°	24134	22531	17639	42	21
65°	25273	23426	17316	49	49
70°	26961	24404	16771	61	61
75°	29505	25975	16049	161	81
80°	34626	29063	14855	241	120
85°	51553	40799	13929	359	240

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 88404 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.9	3.5
10°-20°	196.7	10.6
20°-30°	302.3	16.3
30°-40°	324.0	17.4
40°-50°	294.3	15.8
50°-60°	268.4	14.4
60°-70°	199.7	10.7
70°-80°	140.6	7.6
80°-90°	68.1	3.7
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°	564.9	30.4
0°-40°	888.9	47.8
0°-60°	1451.7	78.0
0°-90°	1860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1860.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	688	688	688	688	688	
5°	718	702	677	676	678	70
15°	820	753	656	642	639	226
25°	706	758	619	596	591	328
35°	646	633	560	538	6	404
45°	585	560	483	6	2	452
55°	510	479	391	2	0	455
65°	409	379	280	1	1	405
75°	292	258	159	2	1	308
85°	172	136	46	1	1	173
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	687.5	687.5	687.5	687.5	687.5	687.5	687.5	687.5	687.5
2.5°	701.6	693.8	691.8	697.3	677.2	690.6	679.6	681.9	681.9
5°	718.2	707.1	701.6	700.1	676.8	685.9	675.6	675.6	678.0
7.5°	729.6	717.4	707.5	703.6	673.3	681.2	669.3	669.3	669.3
10°	760.7	737.9	713.4	706.4	669.0	674.9	661.1	661.9	659.1
12.5°	797.3	776.8	724.9	705.2	664.2	667.0	652.4	652.0	648.9
15°	819.8	804.4	752.8	703.6	656.4	658.7	642.2	641.0	639.0
17.5°	807.2	804.8	772.1	702.4	649.3	647.3	630.8	629.6	628.0
20°	772.1	778.0	787.9	700.1	640.2	636.3	619.7	619.0	617.8
22.5°	733.1	739.0	780.8	704.0	629.2	624.5	607.9	607.1	605.6
25°	705.6	705.6	758.3	713.4	619.0	610.3	595.7	594.5	591.4
27.5°	686.3	682.7	724.9	724.1	606.0	596.1	582.7	581.5	577.6
30°	671.3	665.4	687.9	729.2	591.4	580.8	568.6	567.4	486.7
32.5°	657.9	651.6	656.7	733.5	576.8	564.2	553.6	394.9	17.3
35°	645.7	638.6	632.7	730.4	560.3	547.7	537.8	11.4	6.3
37.5°	631.9	626.4	613.0	713.8	542.6	530.0	520.5	6.3	5.5
40°	617.0	611.9	594.5	689.4	523.3	512.6	346.9	5.5	3.9
42.5°	601.6	597.7	577.2	654.0	504.0	493.3	11.0	4.3	3.1
45°	585.1	581.5	559.9	611.1	483.1	473.3	5.9	3.1	2.4
47.5°	568.2	563.0	541.8	565.0	461.9	452.0	5.1	2.4	1.6
50°	550.4	544.9	521.7	524.5	439.4	429.6	3.9	1.6	0.8
52.5°	530.8	524.1	500.4	487.8	415.8	406.7	3.1	0.8	0.4
55°	509.9	502.4	478.8	455.9	391.0	380.7	2.4	0.8	0.4
57.5°	486.7	478.4	455.9	425.6	364.6	257.5	1.6	0.8	0.4
60°	462.2	454.0	431.5	397.3	337.8	17.7	0.8	0.8	0.4
62.5°	436.3	427.6	405.9	368.5	309.1	14.6	0.8	0.8	0.8
65°	409.1	398.9	379.2	339.0	280.3	12.2	0.8	0.8	0.8
67.5°	381.9	368.9	350.4	308.7	250.8	10.2	0.8	0.8	0.8
70°	353.2	339.0	319.7	278.0	219.7	8.3	0.8	0.8	0.8
72.5°	323.6	309.9	289.0	246.9	190.6	6.3	0.8	0.8	0.8
75°	292.5	279.9	257.5	215.8	159.1	4.7	1.6	0.8	0.8
77.5°	260.3	250.4	225.2	183.9	128.4	3.1	1.6	0.8	0.8
80°	230.3	219.3	193.3	151.6	98.8	2.4	1.6	1.2	0.8
82.5°	199.6	189.8	163.8	122.1	70.9	2.0	1.6	1.2	0.8
85°	172.1	162.6	136.2	95.3	46.5	1.6	1.2	1.2	0.8
87.5°	147.7	139.0	113.0	69.7	26.4	1.2	1.2	1.2	0.8
90°	0.0	0.0	0.0	0.0	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	24.56	26.18	24.93	26.49	26.81	20.00	21.61	20.36	21.93	22.24
	3H	27.01	28.47	27.39	28.80	29.16	20.64	22.10	21.02	22.43	22.79
	4H	28.13	29.52	28.53	29.86	30.24	20.78	22.17	21.18	22.51	22.89
	6H	29.23	30.51	29.64	30.88	31.27	20.82	22.11	21.23	22.47	22.86
	8H	29.76	30.99	30.18	31.37	31.77	20.81	22.04	21.24	22.43	22.83
	12H	30.33	31.50	30.75	31.88	32.31	20.79	21.97	21.22	22.35	22.78
4H	2H	25.22	26.60	25.62	26.95	27.33	21.12	22.51	21.52	22.85	23.23
	3H	27.91	29.08	28.32	29.47	29.87	22.47	23.63	22.88	24.03	24.43
	4H	29.21	30.27	29.64	30.68	31.12	23.00	24.06	23.43	24.48	24.91
	6H	30.49	31.42	30.94	31.86	32.32	23.28	24.21	23.73	24.65	25.11
	8H	31.11	31.99	31.57	32.43	32.90	23.31	24.19	23.77	24.63	25.10
	12H	31.80	32.59	32.28	33.07	33.53	23.33	24.12	23.80	24.59	25.06
8H	4H	29.57	30.45	30.03	30.89	31.35	23.95	24.83	24.41	25.27	25.73
	6H	31.05	31.79	31.54	32.27	32.75	24.54	25.28	25.03	25.76	26.24
	8H	31.83	32.50	32.34	33.00	33.49	24.72	25.38	25.22	25.89	26.37
	12H	32.73	33.32	33.23	33.81	34.37	24.82	25.41	25.32	25.90	26.46
12H	4H	29.61	30.40	30.09	30.88	31.34	24.17	24.96	24.65	25.43	25.90
	6H	31.14	31.81	31.65	32.31	32.79	24.89	25.55	25.40	26.06	26.54
	8H	32.02	32.61	32.52	33.10	33.66	25.20	25.79	25.71	26.28	26.84