

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: P892550

Luminaire Tested: 2MB-2SL-LVRF-UNV-L835

Issue Date: 11/11/2024

**Test Information**

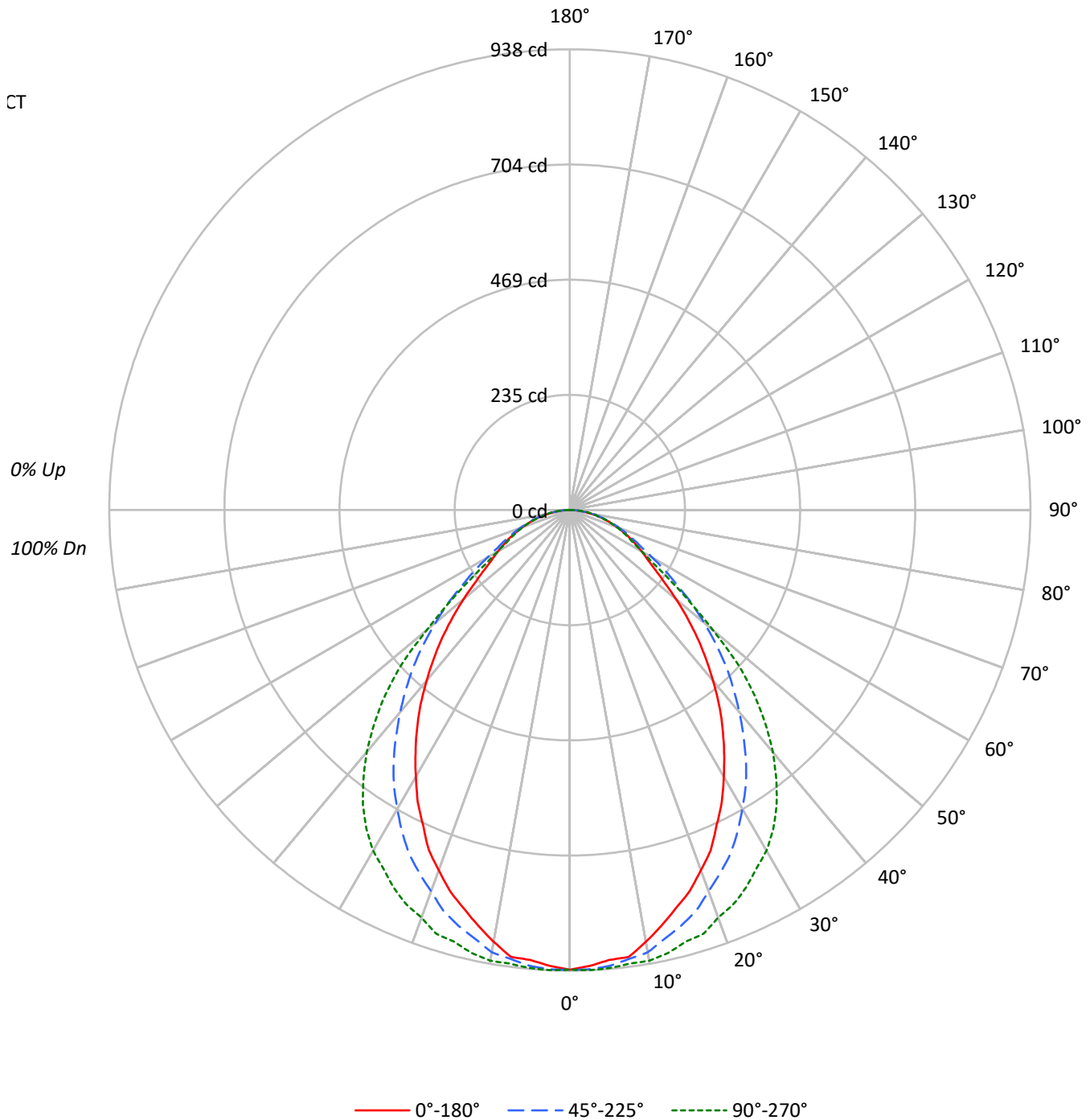
Test Method: LM-79-2019  
Report Number: P892550  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-2SL-LVRF-UNV-L835  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K C  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1897.0 lumens  
Efficiency: N/A  
Efficacy: 127.3 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): 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	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°	13390	13390	13390
5°	13204	13379	13441
10°	12968	13283	13534
15°	12414	12978	13477
20°	11879	12576	13445
25°	11169	12208	13395
30°	10360	11603	13231
35°	9472	10922	12825
40°	8465	10032	12019
45°	7421	9100	10745
50°	6276	7932	8453
55°	5307	6667	6193
60°	4850	5568	4875
65°	4597	4891	4421
70°	4304	4521	4233
75°	4018	4256	4063
80°	3707	3987	3921
85°	3266	3545	4268

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10745 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.3	4.7
10°-20°	247.1	13.0
20°-30°	356.1	18.8
30°-40°	392.8	20.7
40°-50°	343.9	18.1
50°-60°	226.0	11.9
60°-70°	138.1	7.3
70°-80°	79.9	4.2
80°-90°	24.8	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°	691.5	36.5
0°-40°	1084.4	57.2
0°-60°	1654.2	87.2
0°-90°	1897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1897.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	920	929	932	937	936	87
15°	838	852	876	905	910	236
25°	708	732	773	820	849	326
35°	542	566	625	695	734	338
45°	367	389	450	505	531	282
55°	213	224	267	268	248	194
65°	136	136	144	138	131	134
75°	73	73	77	79	74	77
85°	20	20	22	23	26	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	936.0	936.0	936.0	936.0	936.0
2.5°	929.1	934.3	936.0	939.4	937.7
5°	919.5	929.1	931.7	936.8	936.0
7.5°	917.8	914.4	922.1	932.5	931.7
10°	892.7	899.7	914.4	929.9	931.7
12.5°	865.9	877.2	893.6	920.4	923.9
15°	838.2	852.1	876.3	904.8	910.0
17.5°	813.1	827.0	855.5	887.5	904.8
20°	780.3	799.3	826.1	865.9	883.2
22.5°	750.0	765.6	800.2	843.4	869.4
25°	707.6	731.8	773.4	820.1	848.6
27.5°	670.4	692.9	739.6	791.5	822.7
30°	627.2	652.2	702.4	760.4	801.0
32.5°	584.8	608.1	667.0	726.6	770.8
35°	542.4	565.7	625.4	694.6	734.4
37.5°	499.1	523.4	581.3	652.2	690.3
40°	453.3	481.0	537.2	607.3	643.6
42.5°	410.0	436.0	493.1	561.4	589.1
45°	366.8	389.3	449.8	505.2	531.1
47.5°	323.5	345.2	403.1	449.0	463.7
50°	282.0	301.9	356.4	384.9	379.8
52.5°	243.1	261.2	313.1	324.4	309.7
55°	212.8	224.0	267.3	268.2	248.3
57.5°	187.7	196.4	230.1	221.5	199.8
60°	169.5	172.1	194.6	185.1	170.4
62.5°	151.4	153.1	165.2	158.3	147.1
65°	135.8	135.8	144.5	138.4	130.6
67.5°	118.5	119.4	125.4	122.0	115.9
70°	102.9	102.9	108.1	108.1	101.2
72.5°	87.4	87.4	91.7	92.6	88.2
75°	72.7	72.7	77.0	78.7	73.5
77.5°	58.8	58.8	62.3	64.9	58.8
80°	45.0	45.0	48.4	51.0	47.6
82.5°	32.0	32.9	34.6	37.2	37.2
85°	19.9	19.9	21.6	23.4	26.0
87.5°	8.7	9.5	10.4	11.2	13.0
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	16.43	17.90	16.79	18.22	18.53	17.17	18.65	17.54	18.96	19.28
	3H	18.02	19.35	18.40	19.67	20.04	18.51	19.83	18.89	20.16	20.52
	4H	18.64	19.88	19.04	20.23	20.61	19.09	20.32	19.49	20.67	21.05
	6H	19.12	20.26	19.53	20.63	21.02	19.54	20.68	19.95	21.05	21.44
	8H	19.28	20.36	19.70	20.75	21.16	19.72	20.81	20.15	21.20	21.60
	12H	19.38	20.42	19.81	20.80	21.23	19.87	20.91	20.30	21.30	21.72
4H	2H	17.05	18.29	17.45	18.64	19.02	17.65	18.89	18.05	19.24	19.62
	3H	18.86	19.89	19.27	20.29	20.69	19.26	20.28	19.67	20.68	21.08
	4H	19.60	20.52	20.03	20.93	21.37	19.98	20.91	20.42	21.32	21.76
	6H	20.20	21.00	20.65	21.44	21.90	20.60	21.40	21.05	21.84	22.30
	8H	20.40	21.15	20.86	21.59	22.06	20.83	21.58	21.30	22.03	22.50
	12H	20.55	21.22	21.03	21.70	22.17	21.04	21.71	21.52	22.18	22.66
8H	4H	19.91	20.66	20.37	21.10	21.57	20.25	21.00	20.72	21.45	21.91
	6H	20.63	21.25	21.13	21.74	22.22	21.01	21.63	21.50	22.12	22.60
	8H	20.91	21.47	21.43	21.98	22.47	21.33	21.89	21.85	22.40	22.89
	12H	21.14	21.63	21.65	22.12	22.69	21.63	22.12	22.14	22.61	23.18
12H	4H	19.94	20.61	20.42	21.09	21.56	20.27	20.94	20.75	21.42	21.89
	6H	20.70	21.26	21.21	21.77	22.26	21.05	21.61	21.57	22.12	22.61
	8H	21.04	21.53	21.55	22.03	22.59	21.44	21.94	21.95	22.43	22.99