

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: P892662

Luminaire Tested: 2MB-3SL-LVRF-UNV-L835

Issue Date: 11/11/2024

**Test Information**

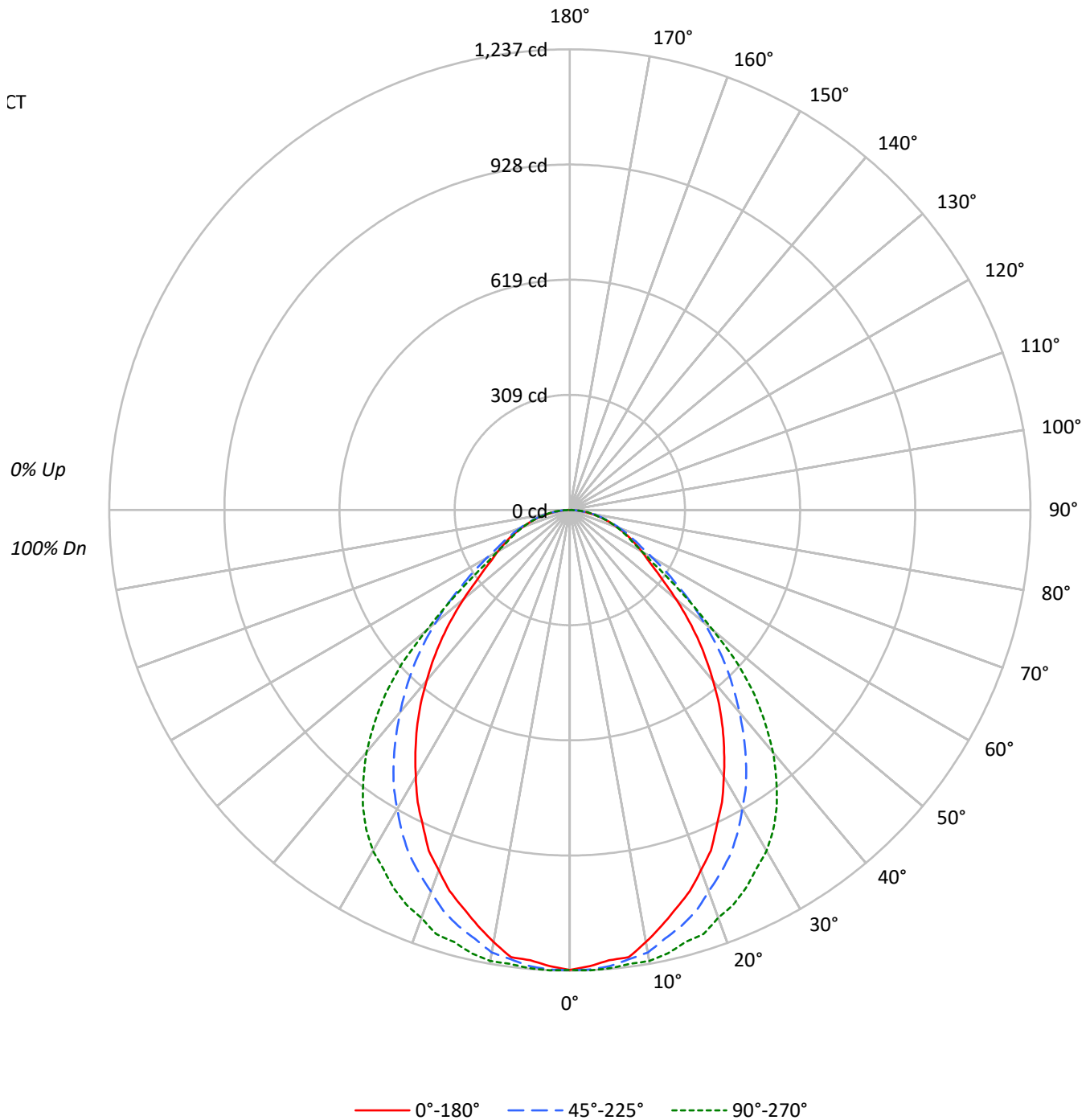
Test Method: LM-79-2019  
Report Number: P892662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-3SL-LVRF-UNV-L835  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K C  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2503.0 lumens  
Efficiency: N/A  
Efficacy: 119.2 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): 21  
Input Voltage (V): 120  
Input Current (Ain): 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	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°	17667	17667	17667
5°	17423	17653	17735
10°	17110	17524	17857
15°	16380	17123	17783
20°	15673	16594	17742
25°	14738	16106	17674
30°	13669	15309	17458
35°	12499	14411	16922
40°	11169	13236	15858
45°	9790	12007	14178
50°	8281	10467	11152
55°	7003	8797	8171
60°	6400	7347	6435
65°	6066	6452	5832
70°	5680	5969	5584
75°	5301	5616	5361
80°	4893	5264	5174
85°	4317	4678	5613

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 14178 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.5	4.7
10°-20°	326.0	13.0
20°-30°	469.9	18.8
30°-40°	518.3	20.7
40°-50°	453.7	18.1
50°-60°	298.1	11.9
60°-70°	182.2	7.3
70°-80°	105.4	4.2
80°-90°	32.7	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°	912.5	36.5
0°-40°	1430.8	57.2
0°-60°	2182.7	87.2
0°-90°	2503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2503.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1213	1226	1229	1236	1235	115
15°	1106	1124	1156	1194	1201	312
25°	934	966	1020	1082	1120	430
35°	716	746	825	916	969	446
45°	484	514	594	667	701	373
55°	281	296	353	354	328	256
65°	179	179	191	183	172	177
75°	96	96	102	104	97	102
85°	26	26	28	31	34	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1235.0	1235.0	1235.0	1235.0	1235.0
2.5°	1225.9	1232.7	1235.0	1239.5	1237.3
5°	1213.3	1225.9	1229.3	1236.1	1235.0
7.5°	1211.0	1206.4	1216.7	1230.4	1229.3
10°	1177.9	1187.0	1206.4	1227.0	1229.3
12.5°	1142.5	1157.4	1179.1	1214.4	1219.0
15°	1106.0	1124.3	1156.2	1193.9	1200.7
17.5°	1072.9	1091.2	1128.8	1171.1	1193.9
20°	1029.5	1054.6	1090.0	1142.5	1165.4
22.5°	989.6	1010.1	1055.8	1112.9	1147.1
25°	933.7	965.6	1020.4	1082.0	1119.7
27.5°	884.6	914.3	975.9	1044.4	1085.5
30°	827.5	860.6	926.8	1003.3	1056.9
32.5°	771.6	802.4	880.0	958.8	1017.0
35°	715.7	746.5	825.2	916.5	969.0
37.5°	658.6	690.5	767.0	860.6	910.8
40°	598.1	634.6	708.8	801.3	849.2
42.5°	541.0	575.3	650.6	740.8	777.3
45°	483.9	513.6	593.5	666.6	700.8
47.5°	426.9	455.4	531.9	592.4	611.8
50°	372.1	398.3	470.3	507.9	501.1
52.5°	320.7	344.7	413.2	428.0	408.6
55°	280.8	295.6	352.7	353.8	327.6
57.5°	247.7	259.1	303.6	292.2	263.7
60°	223.7	227.1	256.8	244.3	224.9
62.5°	199.7	202.0	218.0	208.9	194.0
65°	179.2	179.2	190.6	182.6	172.3
67.5°	156.4	157.5	165.5	160.9	152.9
70°	135.8	135.8	142.7	142.7	133.5
72.5°	115.3	115.3	121.0	122.1	116.4
75°	95.9	95.9	101.6	103.9	97.0
77.5°	77.6	77.6	82.2	85.6	77.6
80°	59.4	59.4	63.9	67.3	62.8
82.5°	42.2	43.4	45.7	49.1	49.1
85°	26.3	26.3	28.5	30.8	34.2
87.5°	11.4	12.6	13.7	14.8	17.1
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	17.39	18.87	17.76	19.18	19.49	18.14	19.61	18.50	19.92	20.24
	3H	18.99	20.31	19.37	20.64	21.00	19.47	20.80	19.85	21.12	21.49
	4H	19.61	20.84	20.01	21.19	21.57	20.05	21.29	20.45	21.63	22.01
	6H	20.08	21.22	20.49	21.59	21.98	20.50	21.65	20.92	22.01	22.41
	8H	20.24	21.33	20.67	21.72	22.12	20.69	21.77	21.11	22.16	22.56
	12H	20.35	21.39	20.78	21.77	22.20	20.84	21.88	21.27	22.26	22.69
4H	2H	18.02	19.25	18.42	19.60	19.98	18.61	19.85	19.02	20.20	20.58
	3H	19.82	20.85	20.23	21.25	21.65	20.22	21.24	20.63	21.64	22.05
	4H	20.56	21.48	20.99	21.90	22.34	20.95	21.87	21.38	22.29	22.73
	6H	21.16	21.96	21.62	22.40	22.86	21.56	22.36	22.02	22.80	23.26
	8H	21.36	22.11	21.83	22.56	23.03	21.80	22.55	22.26	22.99	23.46
	12H	21.51	22.18	21.99	22.66	23.13	22.00	22.67	22.48	23.15	23.62
8H	4H	20.87	21.62	21.33	22.06	22.53	21.21	21.96	21.68	22.41	22.88
	6H	21.60	22.22	22.09	22.71	23.19	21.97	22.59	22.47	23.08	23.56
	8H	21.88	22.44	22.39	22.95	23.43	22.30	22.85	22.81	23.37	23.85
	12H	22.10	22.60	22.61	23.09	23.65	22.59	23.08	23.10	23.58	24.14
12H	4H	20.90	21.57	21.39	22.05	22.52	21.23	21.90	21.72	22.38	22.85
	6H	21.66	22.22	22.18	22.73	23.22	22.02	22.58	22.53	23.09	23.58
	8H	22.00	22.50	22.51	22.99	23.56	22.41	22.90	22.92	23.39	23.96