

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: P892646

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

Issue Date: 11/11/2024

**Test Information**

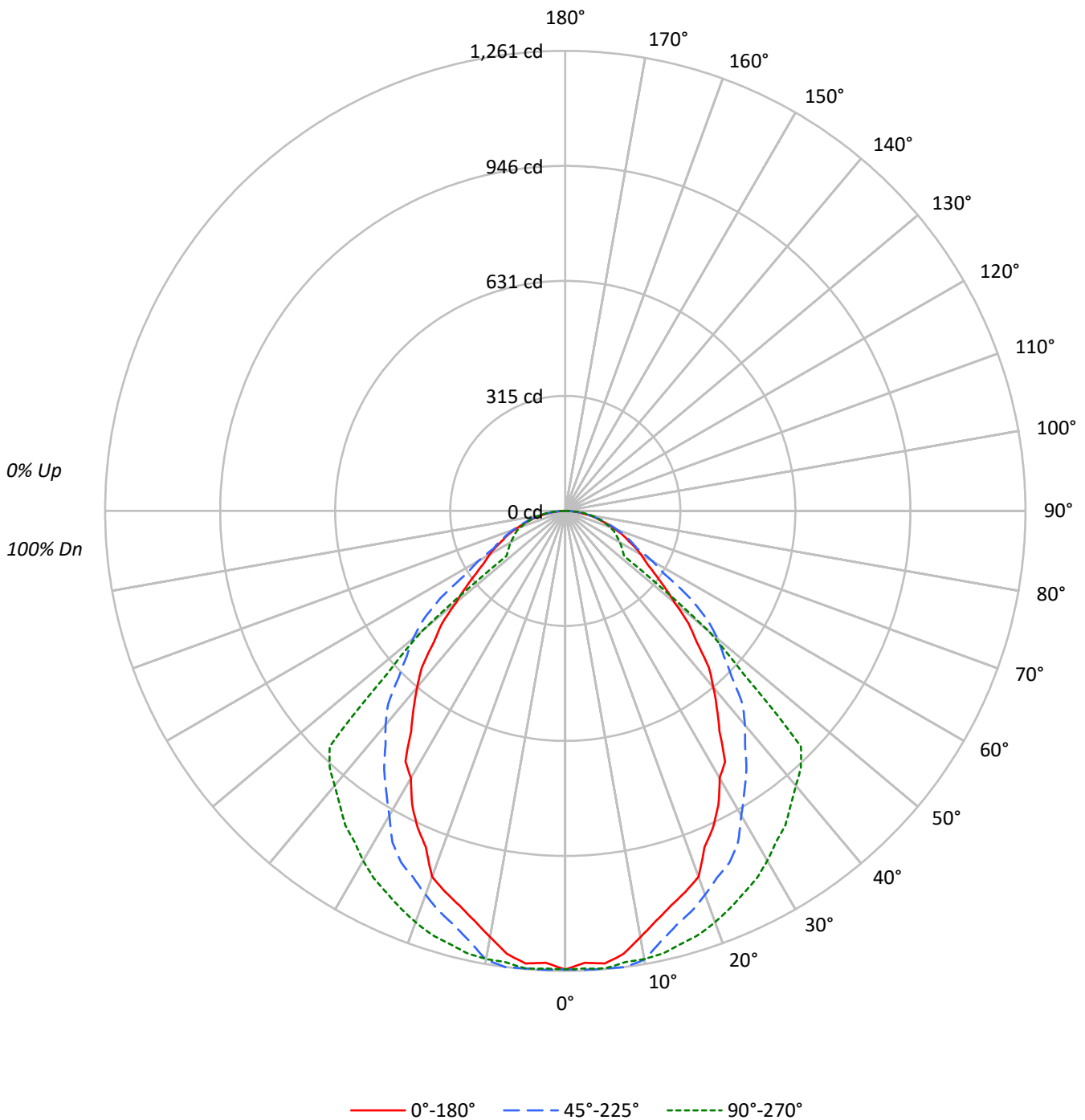
Test Method: LM-79-2019  
Report Number: P892646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-3SL-LVR-UNV-L835  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2622.0 lumens  
Efficiency: N/A  
Efficacy: 124.9 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): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75	75	
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57	57	
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40	40	
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37	37	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	

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

	0°	45°	90°
0°	17979	17979	17979
5°	17883	18079	18079
10°	17228	18140	18123
15°	16584	17412	18190
20°	16248	17047	18264
25°	15117	16791	18251
30°	13971	15932	18289
35°	12857	15110	18360
40°	11787	14303	18353
45°	10300	13071	18475
50°	8713	12118	11433
55°	7402	10420	4784
60°	6858	7902	4933
65°	6374	6723	5179
70°	6015	6349	5442
75°	5549	5992	5616
80°	5075	5544	5923
85°	4497	5055	6369

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 18475 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.1	4.5
10°-20°	333.7	12.7
20°-30°	484.9	18.5
30°-40°	549.1	20.9
40°-50°	513.0	19.6
50°-60°	291.5	11.1
60°-70°	183.1	7.0
70°-80°	112.4	4.3
80°-90°	35.3	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°	937.7	35.8
0°-40°	1486.8	56.7
0°-60°	2291.2	87.4
0°-90°	2622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2622.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1245	1258	1259	1254	1259	117
15°	1120	1139	1176	1240	1228	317
25°	958	976	1064	1112	1156	439
35°	736	785	865	978	1051	464
45°	509	562	646	821	913	397
55°	297	324	418	219	192	272
65°	188	195	199	172	153	189
75°	100	104	108	111	102	107
85°	27	28	31	34	39	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1256.8	1256.8	1256.8	1256.8	1256.8
2.5°	1239.6	1253.3	1259.0	1257.9	1255.6
5°	1245.3	1257.9	1259.0	1254.5	1259.0
7.5°	1224.8	1254.5	1261.3	1249.9	1247.6
10°	1186.0	1203.1	1248.8	1253.3	1247.6
12.5°	1150.6	1171.1	1208.8	1253.3	1241.9
15°	1119.8	1139.2	1175.7	1239.6	1228.2
17.5°	1094.7	1101.5	1150.6	1224.8	1217.9
20°	1067.3	1081.0	1119.8	1188.3	1199.7
22.5°	997.6	1035.3	1087.8	1156.3	1179.1
25°	957.7	976.0	1063.8	1111.8	1156.3
27.5°	908.6	941.7	1025.0	1077.5	1135.8
30°	845.8	883.5	964.5	1042.2	1107.2
32.5°	815.0	828.7	913.2	1013.6	1075.3
35°	736.2	785.3	865.2	978.2	1051.3
37.5°	682.6	712.3	809.3	944.0	1014.8
40°	631.2	665.5	765.9	906.3	982.8
42.5°	582.1	613.0	719.1	868.7	955.4
45°	509.1	561.6	646.1	820.7	913.2
47.5°	458.9	492.0	589.0	762.5	662.1
50°	391.5	431.5	544.5	522.8	513.7
52.5°	342.4	364.1	490.8	441.7	203.2
55°	296.8	324.2	417.8	219.2	191.8
57.5°	262.5	280.8	320.8	203.2	182.6
60°	239.7	244.3	276.2	194.0	172.4
62.5°	214.6	219.2	220.3	183.8	162.1
65°	188.3	195.2	198.6	172.4	153.0
67.5°	168.9	170.1	174.6	159.8	143.8
70°	143.8	146.1	151.8	146.1	130.1
72.5°	122.1	125.6	129.0	130.1	116.4
75°	100.4	103.9	108.4	110.7	101.6
77.5°	82.2	83.3	87.9	93.6	86.8
80°	61.6	65.1	67.3	73.1	71.9
82.5°	44.5	45.7	49.1	53.6	55.9
85°	27.4	28.5	30.8	34.2	38.8
87.5°	11.4	12.6	13.7	16.0	18.3
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	17.76	19.23	18.12	19.55	19.86	15.50	16.98	15.87	17.29	17.61
	3H	19.34	20.67	19.72	20.99	21.36	17.84	19.16	18.21	19.49	19.85
	4H	19.94	21.18	20.35	21.53	21.91	18.78	20.02	19.18	20.37	20.75
	6H	20.41	21.55	20.82	21.92	22.31	19.57	20.72	19.98	21.08	21.48
	8H	20.56	21.65	20.98	22.04	22.44	19.88	20.97	20.31	21.36	21.76
	12H	20.66	21.70	21.09	22.08	22.51	20.13	21.17	20.56	21.55	21.98
4H	2H	18.33	19.57	18.73	19.92	20.29	16.66	17.90	17.06	18.25	18.63
	3H	20.15	21.17	20.56	21.57	21.98	19.10	20.12	19.51	20.52	20.92
	4H	20.88	21.80	21.31	22.22	22.66	20.14	21.07	20.58	21.48	21.92
	6H	21.47	22.27	21.93	22.72	23.18	21.04	21.84	21.50	22.29	22.75
	8H	21.67	22.42	22.13	22.87	23.33	21.38	22.14	21.85	22.58	23.05
	12H	21.81	22.48	22.29	22.96	23.43	21.67	22.34	22.15	22.82	23.29
8H	4H	21.19	21.94	21.65	22.38	22.85	20.55	21.30	21.01	21.74	22.21
	6H	21.91	22.53	22.41	23.02	23.50	21.59	22.21	22.09	22.70	23.18
	8H	22.18	22.74	22.70	23.25	23.74	22.03	22.59	22.54	23.10	23.59
	12H	22.40	22.90	22.91	23.39	23.95	22.41	22.91	22.92	23.40	23.97
12H	4H	21.22	21.89	21.70	22.37	22.84	20.58	21.26	21.07	21.73	22.21
	6H	21.97	22.53	22.49	23.04	23.53	21.66	22.22	22.17	22.73	23.22
	8H	22.31	22.80	22.82	23.30	23.86	22.16	22.66	22.67	23.15	23.72