

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: P892654

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

Issue Date: 11/11/2024

**Test Information**

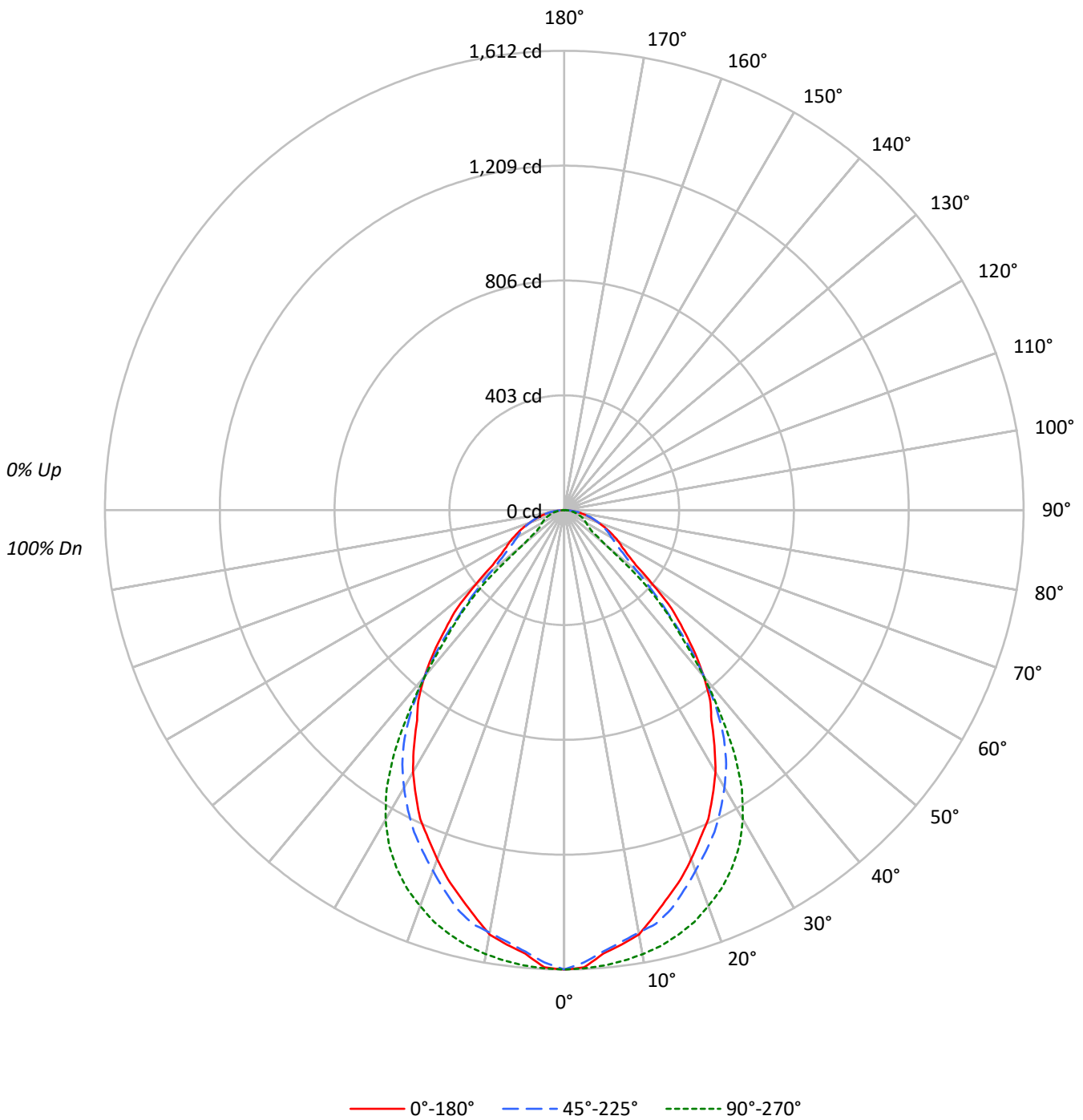
Test Method: LM-79-2019  
Report Number: P892654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-3SL-LVRA-UNV-L835  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2616.0 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12  
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	88	
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	78	
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	62	
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	55	
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	50	
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	45	
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	41	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	38	
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	35	

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

	0°	45°	90°
0°	23059	23059	23059
5°	22436	22336	23034
10°	21959	21863	22980
15°	20826	21466	22851
20°	19839	20509	22502
25°	18872	19678	21928
30°	17533	18577	20704
35°	15721	17071	18159
40°	14243	14275	14196
45°	11910	10548	10287
50°	8996	7424	4206
55°	6766	5936	2654
60°	6289	5468	2555
65°	5849	5457	2559
70°	5354	5354	2518
75°	5074	5212	2432
80°	4688	4926	2496
85°	4087	4300	2725

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12187 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.9	5.7
10°-20°	410.3	15.7
20°-30°	581.8	22.2
30°-40°	599.3	22.9
40°-50°	418.6	16.0
50°-60°	200.9	7.7
60°-70°	140.9	5.4
70°-80°	88.1	3.4
80°-90°	27.3	1.0
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°	1140.9	43.6
0°-40°	1740.2	66.5
0°-60°	2359.7	90.2
0°-90°	2616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2616.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1612	1612	1612	1612	1612	
5°	1562	1560	1555	1596	1604	148
15°	1406	1417	1449	1491	1543	396
25°	1196	1208	1247	1331	1389	547
35°	900	925	978	998	1040	567
45°	589	602	521	495	508	454
55°	271	258	238	152	106	254
65°	173	162	161	123	76	171
75°	92	91	94	81	44	97
85°	25	25	26	26	17	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1611.9	1611.9	1611.9	1611.9	1611.9
2.5°	1605.6	1600.7	1588.6	1610.6	1609.0
5°	1562.4	1560.4	1555.4	1596.1	1604.0
7.5°	1537.9	1533.8	1528.0	1572.8	1594.8
10°	1511.7	1516.7	1505.1	1546.2	1582.0
12.5°	1457.7	1471.0	1486.8	1518.8	1566.2
15°	1406.2	1416.6	1449.4	1491.0	1542.9
17.5°	1358.0	1370.1	1398.3	1460.7	1515.9
20°	1303.2	1319.8	1347.2	1427.0	1478.1
22.5°	1246.7	1262.1	1296.6	1382.1	1439.0
25°	1195.6	1207.7	1246.7	1331.0	1389.2
27.5°	1127.9	1150.3	1187.3	1268.7	1329.8
30°	1061.4	1080.5	1124.6	1193.1	1253.4
32.5°	981.2	1009.1	1057.7	1110.0	1160.3
35°	900.2	924.7	977.5	997.9	1039.8
37.5°	841.2	847.9	877.8	875.3	899.0
40°	762.7	776.0	764.4	733.2	760.2
42.5°	678.0	693.8	646.8	610.7	620.2
45°	588.7	602.4	521.4	494.8	508.5
47.5°	511.4	510.1	420.4	402.6	383.4
50°	404.2	417.5	333.6	300.4	189.0
52.5°	315.7	320.7	275.0	191.9	124.2
55°	271.3	258.0	238.0	152.5	106.4
57.5°	240.9	224.3	211.0	141.7	97.2
60°	219.8	201.1	191.1	134.6	89.3
62.5°	195.7	181.1	177.4	128.4	82.3
65°	172.8	161.6	161.2	122.6	75.6
67.5°	150.0	143.7	145.4	115.5	68.1
70°	128.0	126.7	128.0	106.4	60.2
72.5°	109.3	108.0	111.3	94.7	51.5
75°	91.8	90.6	94.3	81.4	44.0
77.5°	73.1	73.9	76.4	67.7	37.0
80°	56.9	56.9	59.8	53.2	30.3
82.5°	40.7	41.1	42.8	39.1	23.7
85°	24.9	24.9	26.2	25.8	16.6
87.5°	8.3	9.6	11.2	12.0	8.3
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	16.55	17.90	16.91	18.21	18.53	12.88	14.24	13.25	14.55	14.86
	3H	18.29	19.49	18.67	19.82	20.19	14.86	16.07	15.24	16.39	16.76
	4H	18.96	20.09	19.36	20.44	20.82	15.56	16.69	15.96	17.04	17.42
	6H	19.47	20.50	19.88	20.87	21.27	16.09	17.12	16.50	17.49	17.89
	8H	19.64	20.62	20.07	21.01	21.42	16.27	17.26	16.70	17.65	18.05
	12H	19.75	20.69	20.18	21.07	21.50	16.41	17.35	16.84	17.74	18.17
4H	2H	17.08	18.21	17.48	18.56	18.94	14.50	15.63	14.91	15.98	16.36
	3H	19.06	19.99	19.47	20.39	20.79	16.68	17.61	17.09	18.02	18.42
	4H	19.86	20.69	20.29	21.11	21.56	17.56	18.40	18.00	18.82	19.26
	6H	20.50	21.23	20.96	21.67	22.14	18.20	18.93	18.67	19.37	19.84
	8H	20.72	21.40	21.19	21.84	22.31	18.41	19.09	18.88	19.54	20.01
	12H	20.88	21.48	21.36	21.96	22.43	18.57	19.17	19.06	19.65	20.13
8H	4H	20.14	20.82	20.61	21.27	21.74	18.21	18.89	18.68	19.33	19.80
	6H	20.93	21.48	21.43	21.98	22.46	19.07	19.63	19.57	20.12	20.60
	8H	21.23	21.73	21.75	22.24	22.73	19.40	19.90	19.92	20.41	20.90
	12H	21.46	21.90	21.98	22.40	22.97	19.66	20.10	20.18	20.60	21.17
12H	4H	20.16	20.76	20.65	21.24	21.72	18.28	18.88	18.77	19.36	19.84
	6H	20.98	21.48	21.50	21.99	22.48	19.21	19.71	19.73	20.22	20.71
	8H	21.34	21.78	21.86	22.28	22.85	19.62	20.06	20.14	20.56	21.13