

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: P892663

Luminaire Tested: 2MB-3SL-LVRF-UNV-L840

Issue Date: 11/11/2024

**Test Information**

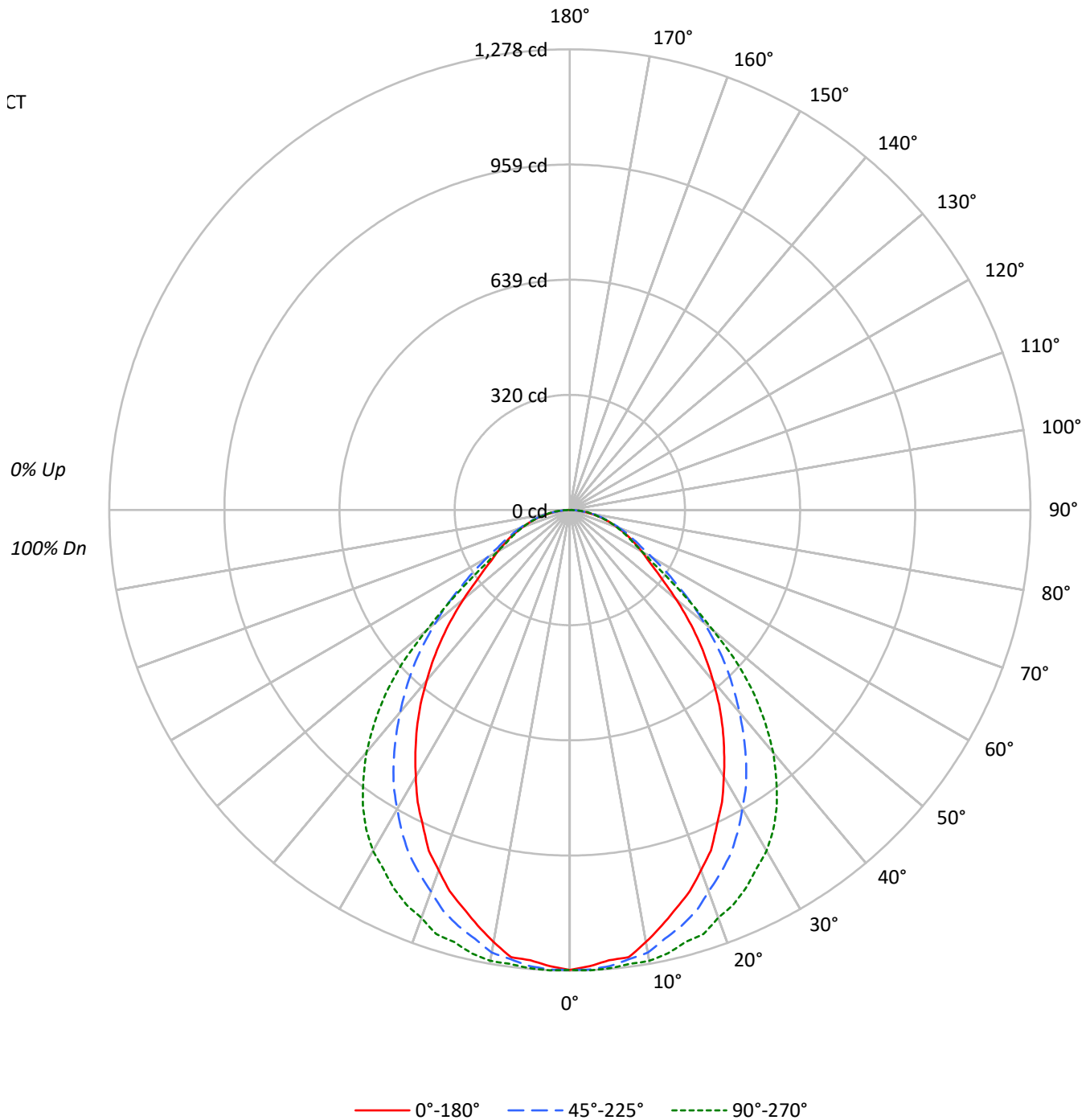
Test Method: LM-79-2019  
Report Number: P892663  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-3SL-LVRF-UNV-L840  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 4000K C  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2586.0 lumens  
Efficiency: N/A  
Efficacy: 123.1 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 (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	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	31

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

	0°	45°	90°
0°	18252	18252	18252
5°	18000	18237	18322
10°	17678	18107	18448
15°	16924	17692	18373
20°	16193	17145	18329
25°	15226	16640	18259
30°	14122	15817	18038
35°	12913	14890	17485
40°	11539	13675	16385
45°	10116	12406	14649
50°	8555	10812	11522
55°	7235	9088	8440
60°	6612	7590	6646
65°	6266	6665	6029
70°	5868	6165	5772
75°	5477	5804	5538
80°	5050	5437	5347
85°	4448	4842	5810

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 14649 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.4	4.7
10°-20°	336.8	13.0
20°-30°	485.5	18.8
30°-40°	535.5	20.7
40°-50°	468.8	18.1
50°-60°	308.0	11.9
60°-70°	188.2	7.3
70°-80°	108.9	4.2
80°-90°	33.8	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°	942.7	36.5
0°-40°	1478.2	57.2
0°-60°	2255.1	87.2
0°-90°	2586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2586.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1276	1276	1276	1276	1276	
5°	1254	1266	1270	1277	1276	119
15°	1143	1162	1195	1234	1241	322
25°	965	998	1054	1118	1157	444
35°	739	771	853	947	1001	461
45°	500	531	613	689	724	385
55°	290	305	364	366	338	265
65°	185	185	197	189	178	183
75°	99	99	105	107	100	105
85°	27	27	30	32	35	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1275.9	1275.9	1275.9	1275.9	1275.9
2.5°	1266.5	1273.6	1275.9	1280.7	1278.3
5°	1253.5	1266.5	1270.0	1277.1	1275.9
7.5°	1251.2	1246.5	1257.1	1271.2	1270.0
10°	1217.0	1226.4	1246.5	1267.7	1270.0
12.5°	1180.4	1195.7	1218.2	1254.7	1259.4
15°	1142.7	1161.6	1194.6	1233.5	1240.6
17.5°	1108.5	1127.4	1166.3	1209.9	1233.5
20°	1063.7	1089.6	1126.2	1180.4	1204.0
22.5°	1022.4	1043.6	1090.8	1149.8	1185.1
25°	964.6	997.6	1054.2	1117.9	1156.8
27.5°	913.9	944.6	1008.2	1079.0	1121.5
30°	854.9	889.1	957.5	1036.6	1092.0
32.5°	797.2	829.0	909.2	990.6	1050.7
35°	739.4	771.2	852.6	946.9	1001.2
37.5°	680.4	713.4	792.4	889.1	941.0
40°	617.9	655.7	732.3	827.8	877.4
42.5°	559.0	594.3	672.2	765.3	803.1
45°	500.0	530.7	613.2	688.7	724.1
47.5°	441.0	470.5	549.5	612.0	632.1
50°	384.4	411.6	485.8	524.8	517.7
52.5°	331.4	356.1	426.9	442.2	422.2
55°	290.1	305.4	364.4	365.6	338.4
57.5°	255.9	267.7	313.7	301.9	272.4
60°	231.1	234.7	265.3	252.4	232.3
62.5°	206.4	208.7	225.2	215.8	200.5
65°	185.1	185.1	196.9	188.7	178.1
67.5°	161.6	162.7	171.0	166.3	158.0
70°	140.3	140.3	147.4	147.4	138.0
72.5°	119.1	119.1	125.0	126.2	120.3
75°	99.1	99.1	105.0	107.3	100.2
77.5°	80.2	80.2	84.9	88.4	80.2
80°	61.3	61.3	66.0	69.6	64.9
82.5°	43.6	44.8	47.2	50.7	50.7
85°	27.1	27.1	29.5	31.8	35.4
87.5°	11.8	13.0	14.2	15.3	17.7
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	17.50	18.98	17.87	19.29	19.61	18.25	19.72	18.61	20.04	20.35
	3H	19.10	20.42	19.48	20.75	21.11	19.59	20.91	19.97	21.24	21.60
	4H	19.72	20.96	20.12	21.31	21.69	20.16	21.40	20.56	21.75	22.13
	6H	20.20	21.34	20.61	21.70	22.10	20.62	21.76	21.03	22.13	22.52
	8H	20.35	21.44	20.78	21.83	22.23	20.80	21.89	21.23	22.28	22.68
	12H	20.46	21.50	20.89	21.88	22.31	20.95	21.99	21.38	22.37	22.80
4H	2H	18.13	19.37	18.53	19.72	20.10	18.73	19.97	19.13	20.31	20.69
	3H	19.94	20.96	20.35	21.36	21.76	20.33	21.36	20.74	21.76	22.16
	4H	20.67	21.59	21.11	22.01	22.45	21.06	21.98	21.49	22.40	22.84
	6H	21.27	22.07	21.73	22.52	22.98	21.67	22.47	22.13	22.92	23.38
	8H	21.48	22.23	21.94	22.67	23.14	21.91	22.66	22.37	23.10	23.57
	12H	21.62	22.29	22.11	22.77	23.24	22.11	22.78	22.60	23.26	23.73
8H	4H	20.98	21.73	21.45	22.18	22.65	21.33	22.08	21.79	22.52	22.99
	6H	21.71	22.33	22.21	22.82	23.30	22.08	22.70	22.58	23.20	23.67
	8H	21.99	22.55	22.51	23.06	23.55	22.41	22.97	22.93	23.48	23.97
	12H	22.21	22.71	22.72	23.20	23.77	22.70	23.20	23.21	23.69	24.26
12H	4H	21.02	21.69	21.50	22.17	22.64	21.35	22.02	21.83	22.50	22.97
	6H	21.77	22.33	22.29	22.84	23.33	22.13	22.69	22.65	23.20	23.69
	8H	22.12	22.61	22.63	23.10	23.67	22.52	23.01	23.03	23.51	24.07