

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: P892647

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

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P892647  
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-L840  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT  
Light Source: -  
Ballast/Driver: -

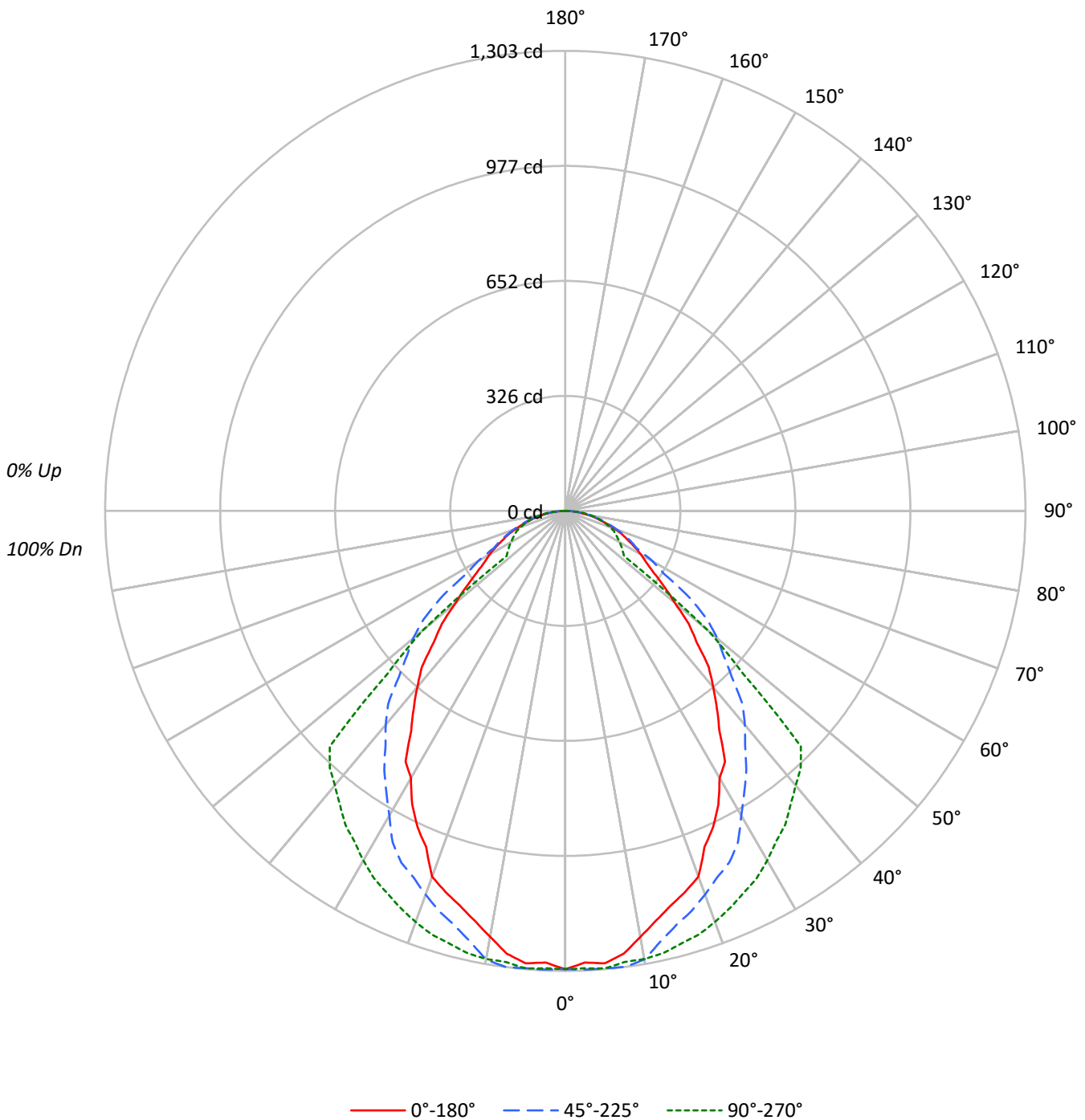
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2708.0 lumens  
Efficiency: N/A  
Efficacy: 129.0 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	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	60	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	53	47	43	52	47	42	42	42	42	40
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	38	37
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

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

	0°	45°	90°
0°	18569	18569	18569
5°	18470	18672	18672
10°	17793	18734	18717
15°	17128	17984	18787
20°	16781	17606	18862
25°	15612	17342	18850
30°	14431	16456	18889
35°	13279	15606	18962
40°	12174	14772	18955
45°	10637	13500	19080
50°	9000	12514	11806
55°	7644	10762	4941
60°	7084	8163	5093
65°	6584	6943	5348
70°	6211	6558	5621
75°	5732	6190	5798
80°	5248	5734	6121
85°	4645	5220	6582

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 19080 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.1	4.5
10°-20°	344.6	12.7
20°-30°	500.9	18.5
30°-40°	567.1	20.9
40°-50°	529.8	19.6
50°-60°	301.0	11.1
60°-70°	189.1	7.0
70°-80°	116.1	4.3
80°-90°	36.4	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°	968.5	35.8
0°-40°	1535.6	56.7
0°-60°	2366.4	87.4
0°-90°	2708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2708.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1286	1299	1300	1296	1300	121
15°	1156	1176	1214	1280	1268	327
25°	989	1008	1099	1148	1194	454
35°	760	811	894	1010	1086	479
45°	526	580	667	848	943	410
55°	306	335	432	226	198	281
65°	194	202	205	178	158	195
75°	104	107	112	114	105	111
85°	28	30	32	35	40	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1298.0	1298.0	1298.0	1298.0	1298.0
2.5°	1280.3	1294.4	1300.3	1299.2	1296.8
5°	1286.2	1299.2	1300.3	1295.6	1300.3
7.5°	1265.0	1295.6	1302.7	1290.9	1288.5
10°	1224.9	1242.6	1289.7	1294.4	1288.5
12.5°	1188.3	1209.6	1248.5	1294.4	1282.7
15°	1156.5	1176.5	1214.3	1280.3	1268.5
17.5°	1130.6	1137.6	1188.3	1265.0	1257.9
20°	1102.3	1116.4	1156.5	1227.2	1239.0
22.5°	1030.4	1069.3	1123.5	1194.2	1217.8
25°	989.1	1008.0	1098.7	1148.3	1194.2
27.5°	938.4	972.6	1058.7	1112.9	1173.0
30°	873.6	912.5	996.2	1076.3	1143.5
32.5°	841.7	855.9	943.1	1046.9	1110.5
35°	760.4	811.1	893.6	1010.3	1085.8
37.5°	705.0	735.6	835.8	975.0	1048.0
40°	651.9	687.3	791.0	936.1	1015.0
42.5°	601.2	633.1	742.7	897.1	986.7
45°	525.8	580.0	667.3	847.6	943.1
47.5°	473.9	508.1	608.3	787.5	683.8
50°	404.4	445.6	562.3	539.9	530.5
52.5°	353.7	376.1	506.9	456.2	209.8
55°	306.5	334.8	431.5	226.4	198.1
57.5°	271.1	290.0	331.3	209.8	188.6
60°	247.6	252.3	285.3	200.4	178.0
62.5°	221.6	226.4	227.5	189.8	167.4
65°	194.5	201.6	205.1	178.0	158.0
67.5°	174.5	175.7	180.4	165.0	148.5
70°	148.5	150.9	156.8	150.9	134.4
72.5°	126.1	129.7	133.2	134.4	120.2
75°	103.7	107.3	112.0	114.4	104.9
77.5°	84.9	86.1	90.8	96.7	89.6
80°	63.7	67.2	69.6	75.5	74.3
82.5°	46.0	47.2	50.7	55.4	57.8
85°	28.3	29.5	31.8	35.4	40.1
87.5°	11.8	13.0	14.1	16.5	18.9
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	17.87	19.35	18.23	19.66	19.97	15.61	17.09	15.98	17.40	17.72
	3H	19.46	20.78	19.83	21.11	21.47	17.95	19.27	18.33	19.60	19.96
	4H	20.06	21.30	20.46	21.65	22.03	18.89	20.13	19.29	20.48	20.86
	6H	20.52	21.66	20.93	22.03	22.42	19.68	20.83	20.10	21.19	21.59
	8H	20.67	21.76	21.10	22.15	22.55	19.99	21.08	20.42	21.47	21.87
	12H	20.77	21.81	21.20	22.19	22.62	20.24	21.28	20.67	21.66	22.09
4H	2H	18.44	19.68	18.84	20.03	20.41	16.77	18.01	17.17	18.36	18.74
	3H	20.26	21.29	20.67	21.69	22.09	19.21	20.23	19.62	20.63	21.04
	4H	20.99	21.92	21.43	22.33	22.77	20.26	21.18	20.69	21.60	22.04
	6H	21.58	22.39	22.04	22.83	23.29	21.15	21.96	21.61	22.40	22.86
	8H	21.78	22.53	22.25	22.98	23.45	21.50	22.25	21.96	22.69	23.16
	12H	21.93	22.60	22.41	23.07	23.55	21.78	22.45	22.27	22.93	23.41
8H	4H	21.30	22.05	21.76	22.49	22.96	20.66	21.41	21.12	21.85	22.32
	6H	22.02	22.64	22.52	23.13	23.61	21.70	22.33	22.20	22.82	23.30
	8H	22.29	22.85	22.81	23.36	23.85	22.14	22.70	22.66	23.21	23.70
	12H	22.51	23.01	23.02	23.50	24.07	22.53	23.02	23.04	23.52	24.08
12H	4H	21.33	22.00	21.82	22.48	22.96	20.70	21.37	21.18	21.85	22.32
	6H	22.09	22.65	22.60	23.16	23.65	21.77	22.33	22.29	22.84	23.33
	8H	22.42	22.92	22.93	23.41	23.97	22.28	22.77	22.79	23.27	23.83