

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: P892645

Luminaire Tested: 2MB-3SL-LVR-UNV-L830

Issue Date: 11/11/2024

**Test Information**

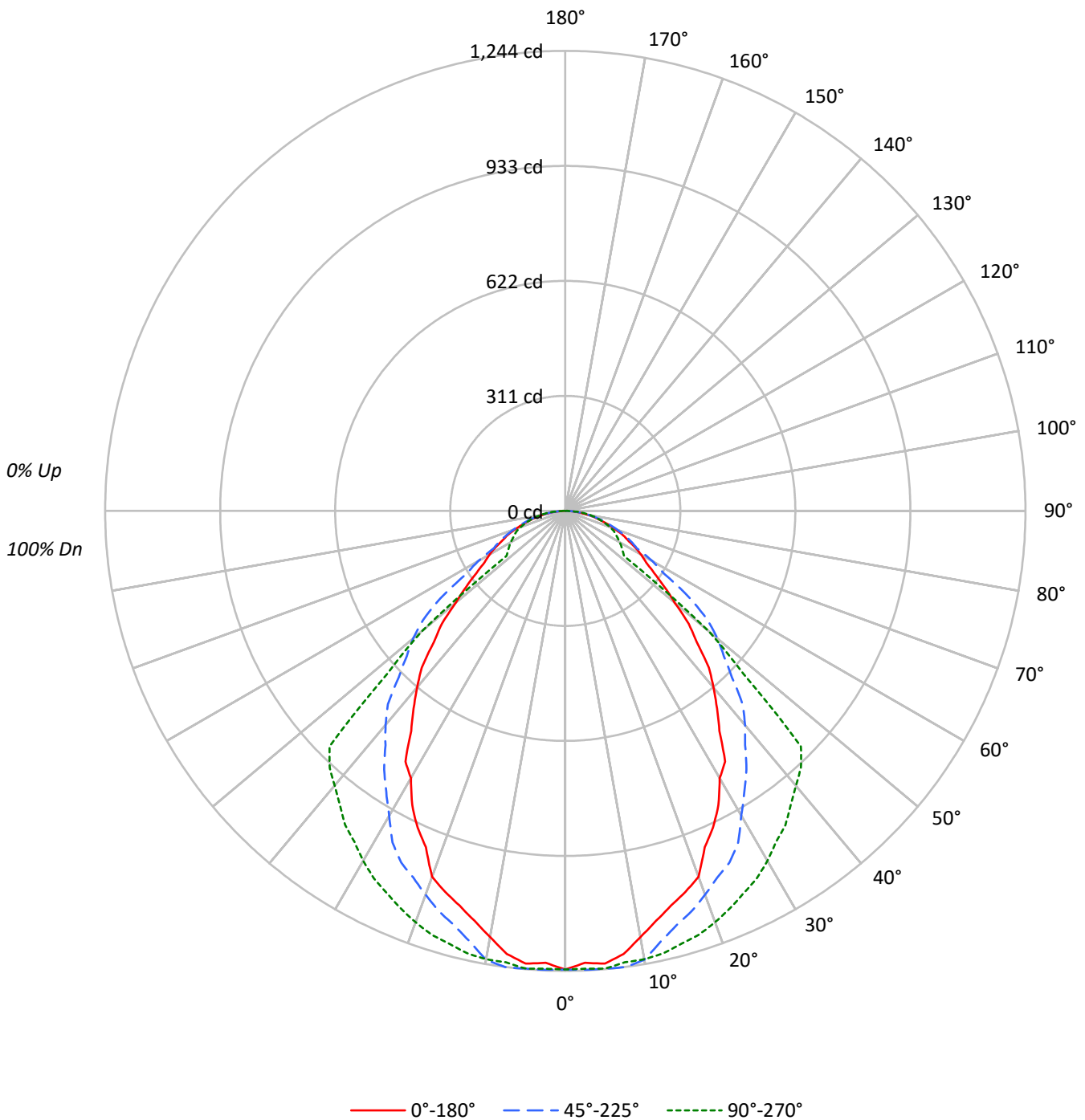
Test Method: LM-79-2019  
Report Number: P892645  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-3SL-LVR-UNV-L830  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2587.0 lumens  
Efficiency: N/A  
Efficacy: 123.2 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 (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	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°	17739	17739	17739
5°	17644	17838	17838
10°	16999	17898	17882
15°	16362	17180	17947
20°	16030	16819	18020
25°	14915	16567	18008
30°	13785	15721	18045
35°	12686	14909	18115
40°	11630	14112	18109
45°	10162	12895	18228
50°	8597	11956	11279
55°	7303	10281	4719
60°	6766	7796	4867
65°	6289	6635	5108
70°	5935	6266	5371
75°	5477	5914	5538
80°	5009	5470	5849
85°	4432	4990	6286

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 18228 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.6	4.5
10°-20°	329.2	12.7
20°-30°	478.5	18.5
30°-40°	541.8	20.9
40°-50°	506.1	19.6
50°-60°	287.6	11.1
60°-70°	180.7	7.0
70°-80°	110.9	4.3
80°-90°	34.8	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°	925.2	35.8
0°-40°	1467.0	56.7
0°-60°	2260.7	87.4
0°-90°	2587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2587.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1229	1241	1242	1238	1242	115
15°	1105	1124	1160	1223	1212	312
25°	945	963	1050	1097	1141	433
35°	726	775	854	965	1037	458
45°	502	554	637	810	901	391
55°	293	320	412	216	189	268
65°	186	193	196	170	151	186
75°	99	102	107	109	100	106
85°	27	28	30	34	38	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1240.0	1240.0	1240.0	1240.0	1240.0
2.5°	1223.1	1236.6	1242.2	1241.1	1238.9
5°	1228.7	1241.1	1242.2	1237.7	1242.2
7.5°	1208.4	1237.7	1244.5	1233.2	1231.0
10°	1170.2	1187.0	1232.1	1236.6	1231.0
12.5°	1135.2	1155.5	1192.7	1236.6	1225.3
15°	1104.8	1124.0	1160.0	1223.1	1211.8
17.5°	1080.1	1086.8	1135.2	1208.4	1201.7
20°	1053.0	1066.5	1104.8	1172.4	1183.7
22.5°	984.3	1021.5	1073.3	1140.9	1163.4
25°	944.9	962.9	1049.6	1096.9	1140.9
27.5°	896.5	929.1	1011.4	1063.2	1120.6
30°	834.5	871.7	951.7	1028.2	1092.4
32.5°	804.1	817.6	901.0	1000.1	1060.9
35°	726.4	774.8	853.7	965.2	1037.3
37.5°	673.5	702.8	798.5	931.4	1001.2
40°	622.8	656.6	755.7	894.2	969.7
42.5°	574.4	604.8	709.5	857.1	942.7
45°	502.3	554.1	637.4	809.8	901.0
47.5°	452.7	485.4	581.1	752.3	653.2
50°	386.3	425.7	537.2	515.8	506.8
52.5°	337.9	359.3	484.3	435.9	200.5
55°	292.8	319.8	412.2	216.2	189.2
57.5°	259.0	277.1	316.5	200.5	180.2
60°	236.5	241.0	272.5	191.5	170.1
62.5°	211.7	216.2	217.4	181.3	159.9
65°	185.8	192.6	196.0	170.1	150.9
67.5°	166.7	167.8	172.3	157.7	141.9
70°	141.9	144.2	149.8	144.2	128.4
72.5°	120.5	123.9	127.3	128.4	114.9
75°	99.1	102.5	107.0	109.2	100.2
77.5°	81.1	82.2	86.7	92.4	85.6
80°	60.8	64.2	66.4	72.1	71.0
82.5°	43.9	45.0	48.4	52.9	55.2
85°	27.0	28.2	30.4	33.8	38.3
87.5°	11.3	12.4	13.5	15.8	18.0
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	17.71	19.19	18.07	19.50	19.82	15.46	16.93	15.82	17.25	17.56
	3H	19.30	20.62	19.68	20.95	21.31	17.79	19.11	18.17	19.44	19.80
	4H	19.90	21.14	20.30	21.49	21.87	18.73	19.97	19.14	20.32	20.70
	6H	20.36	21.50	20.77	21.87	22.26	19.53	20.67	19.94	21.04	21.43
	8H	20.51	21.60	20.94	21.99	22.39	19.83	20.92	20.26	21.31	21.71
	12H	20.61	21.65	21.04	22.04	22.47	20.08	21.12	20.51	21.50	21.93
4H	2H	18.28	19.52	18.68	19.87	20.25	16.61	17.85	17.01	18.20	18.58
	3H	20.10	21.13	20.51	21.53	21.93	19.05	20.08	19.46	20.48	20.88
	4H	20.83	21.76	21.27	22.17	22.61	20.10	21.02	20.53	21.44	21.88
	6H	21.43	22.23	21.88	22.67	23.13	20.99	21.80	21.45	22.24	22.70
	8H	21.62	22.37	22.09	22.82	23.29	21.34	22.09	21.80	22.53	23.00
	12H	21.77	22.44	22.25	22.92	23.39	21.63	22.30	22.11	22.78	23.25
8H	4H	21.14	21.89	21.60	22.34	22.80	20.50	21.25	20.97	21.70	22.16
	6H	21.86	22.48	22.36	22.98	23.45	21.54	22.17	22.04	22.66	23.14
	8H	22.13	22.69	22.65	23.21	23.69	21.98	22.54	22.50	23.05	23.54
	12H	22.35	22.85	22.86	23.34	23.91	22.37	22.86	22.88	23.36	23.92
12H	4H	21.18	21.85	21.66	22.33	22.80	20.54	21.21	21.02	21.69	22.16
	6H	21.93	22.49	22.44	23.00	23.49	21.61	22.17	22.13	22.68	23.17
	8H	22.26	22.76	22.77	23.25	23.81	22.12	22.61	22.63	23.11	23.67