

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: P892541

Luminaire Tested: 2MB-2SL-LVRA-UNV-L830

Issue Date: 11/11/2024

**Test Information**

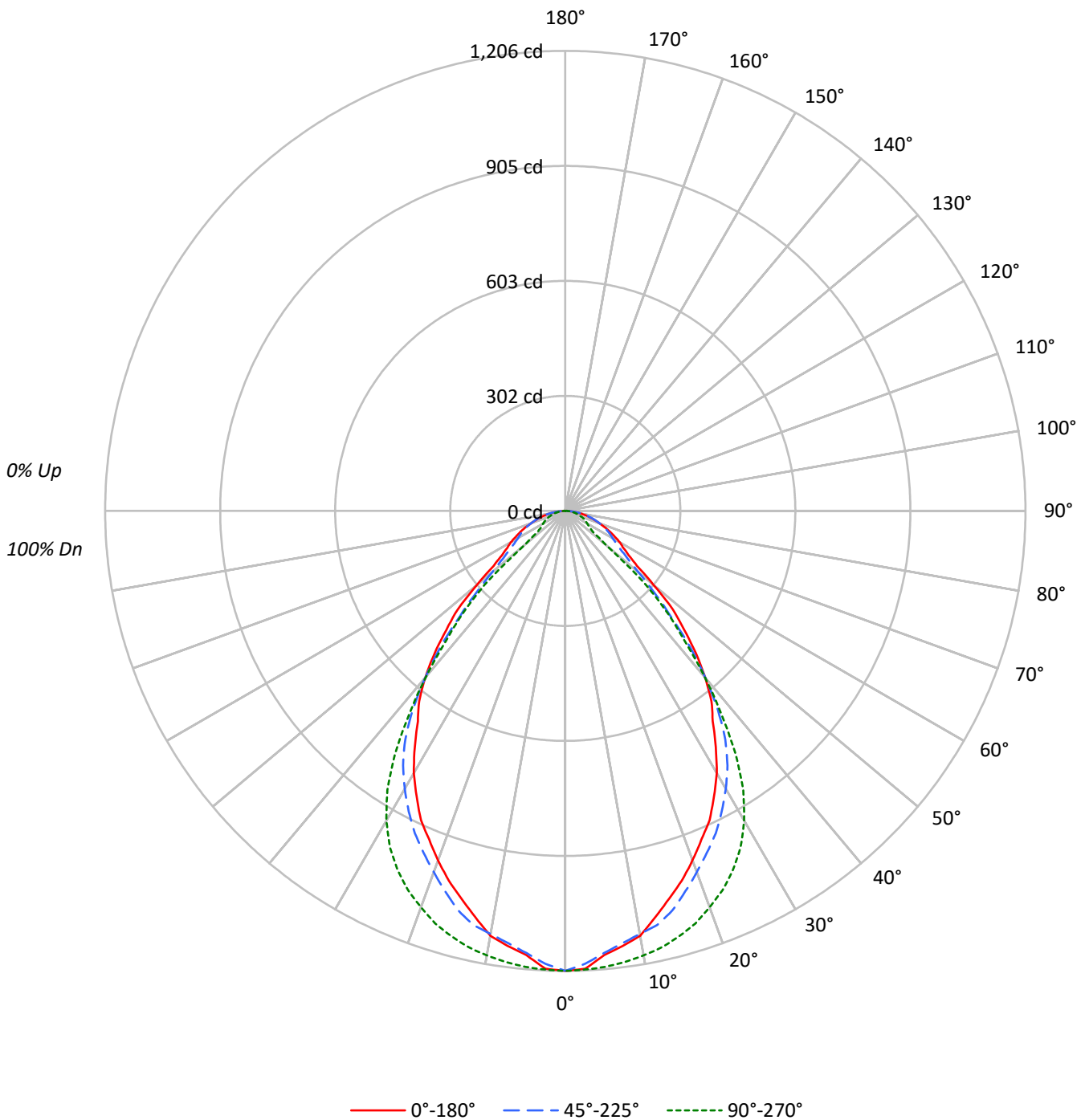
Test Method: LM-79-2019  
Report Number: P892541  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-2SL-LVRA-UNV-L830  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1957.0 lumens  
Efficiency: N/A  
Efficacy: 131.3 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): 14.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.92  
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°	17250	17250	17250
5°	16784	16709	17231
10°	16428	16356	17190
15°	15580	16059	17094
20°	14841	15344	16833
25°	14118	14720	16403
30°	13116	13897	15488
35°	11762	12771	13585
40°	10656	10678	10620
45°	8910	7890	7696
50°	6730	5555	3147
55°	5061	4442	1985
60°	4704	4091	1911
65°	4377	4082	1916
70°	4003	4003	1886
75°	3797	3897	1818
80°	3509	3691	1870
85°	3053	3217	2035

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9116 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.4	5.7
10°-20°	306.9	15.7
20°-30°	435.2	22.2
30°-40°	448.4	22.9
40°-50°	313.1	16.0
50°-60°	150.3	7.7
60°-70°	105.4	5.4
70°-80°	65.9	3.4
80°-90°	20.4	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°	853.5	43.6
0°-40°	1301.8	66.5
0°-60°	1765.3	90.2
0°-90°	1957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1957.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1169	1167	1164	1194	1200	111
15°	1052	1060	1084	1115	1154	296
25°	894	903	933	996	1039	409
35°	674	692	731	746	778	424
45°	440	451	390	370	380	339
55°	203	193	178	114	80	190
65°	129	121	121	92	57	128
75°	69	68	70	61	33	72
85°	19	19	20	19	12	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1205.8	1205.8	1205.8	1205.8	1205.8
2.5°	1201.2	1197.4	1188.4	1204.9	1203.6
5°	1168.8	1167.3	1163.6	1194.0	1199.9
7.5°	1150.5	1147.4	1143.0	1176.6	1193.1
10°	1130.9	1134.7	1126.0	1156.7	1183.4
12.5°	1090.5	1100.5	1112.3	1136.2	1171.6
15°	1052.0	1059.8	1084.3	1115.4	1154.2
17.5°	1015.9	1024.9	1046.1	1092.7	1134.0
20°	974.9	987.3	1007.9	1067.5	1105.7
22.5°	932.6	944.1	969.9	1034.0	1076.5
25°	894.4	903.4	932.6	995.7	1039.2
27.5°	843.8	860.5	888.2	949.1	994.8
30°	794.0	808.3	841.3	892.6	937.6
32.5°	734.1	754.9	791.2	830.4	868.0
35°	673.5	691.8	731.3	746.5	777.9
37.5°	629.3	634.3	656.7	654.8	672.5
40°	570.6	580.5	571.8	548.5	568.7
42.5°	507.2	519.0	483.9	456.8	464.0
45°	440.4	450.6	390.0	370.1	380.4
47.5°	382.6	381.6	314.5	301.1	286.8
50°	302.4	312.3	249.6	224.7	141.4
52.5°	236.2	239.9	205.7	143.6	92.9
55°	202.9	193.0	178.1	114.1	79.6
57.5°	180.3	167.8	157.9	106.0	72.7
60°	164.4	150.4	143.0	100.7	66.8
62.5°	146.4	135.5	132.7	96.0	61.5
65°	129.3	120.9	120.6	91.7	56.6
67.5°	112.2	107.5	108.8	86.4	51.0
70°	95.7	94.8	95.7	79.6	45.1
72.5°	81.7	80.8	83.3	70.9	38.5
75°	68.7	67.7	70.5	60.9	32.9
77.5°	54.7	55.3	57.2	50.7	27.7
80°	42.6	42.6	44.8	39.8	22.7
82.5°	30.5	30.8	32.0	29.2	17.7
85°	18.6	18.6	19.6	19.3	12.4
87.5°	6.2	7.1	8.4	9.0	6.2
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	15.54	16.89	15.91	17.21	17.52	11.87	13.23	12.24	13.54	13.86
	3H	17.28	18.49	17.66	18.82	19.18	13.85	15.06	14.23	15.39	15.75
	4H	17.95	19.08	18.35	19.43	19.81	14.55	15.68	14.96	16.03	16.41
	6H	18.46	19.50	18.87	19.87	20.26	15.08	16.12	15.49	16.49	16.88
	8H	18.63	19.61	19.06	20.01	20.41	15.26	16.25	15.69	16.64	17.04
	12H	18.74	19.68	19.17	20.06	20.49	15.40	16.34	15.83	16.73	17.16
4H	2H	16.07	17.20	16.47	17.55	17.93	13.50	14.62	13.90	14.97	15.36
	3H	18.05	18.98	18.46	19.38	19.78	15.68	16.61	16.09	17.01	17.41
	4H	18.85	19.69	19.28	20.10	20.55	16.55	17.39	16.99	17.81	18.25
	6H	19.49	20.22	19.96	20.66	21.13	17.20	17.92	17.66	18.37	18.83
	8H	19.71	20.39	20.18	20.84	21.31	17.41	18.08	17.87	18.53	19.00
	12H	19.87	20.47	20.35	20.95	21.42	17.56	18.16	18.05	18.65	19.12
8H	4H	19.13	19.81	19.60	20.26	20.73	17.20	17.88	17.67	18.33	18.80
	6H	19.92	20.47	20.42	20.97	21.45	18.07	18.62	18.57	19.12	19.60
	8H	20.22	20.72	20.74	21.23	21.72	18.39	18.89	18.91	19.41	19.90
	12H	20.46	20.90	20.97	21.39	21.96	18.66	19.10	19.17	19.59	20.16
12H	4H	19.15	19.75	19.64	20.23	20.71	17.28	17.88	17.76	18.36	18.83
	6H	19.97	20.47	20.49	20.98	21.47	18.20	18.70	18.72	19.22	19.71
	8H	20.34	20.78	20.85	21.27	21.84	18.62	19.06	19.13	19.55	20.12