

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: P892549

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892549
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-2SL-LVRF-UNV-L830
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3000K C
Light Source: -
Ballast/Driver: -

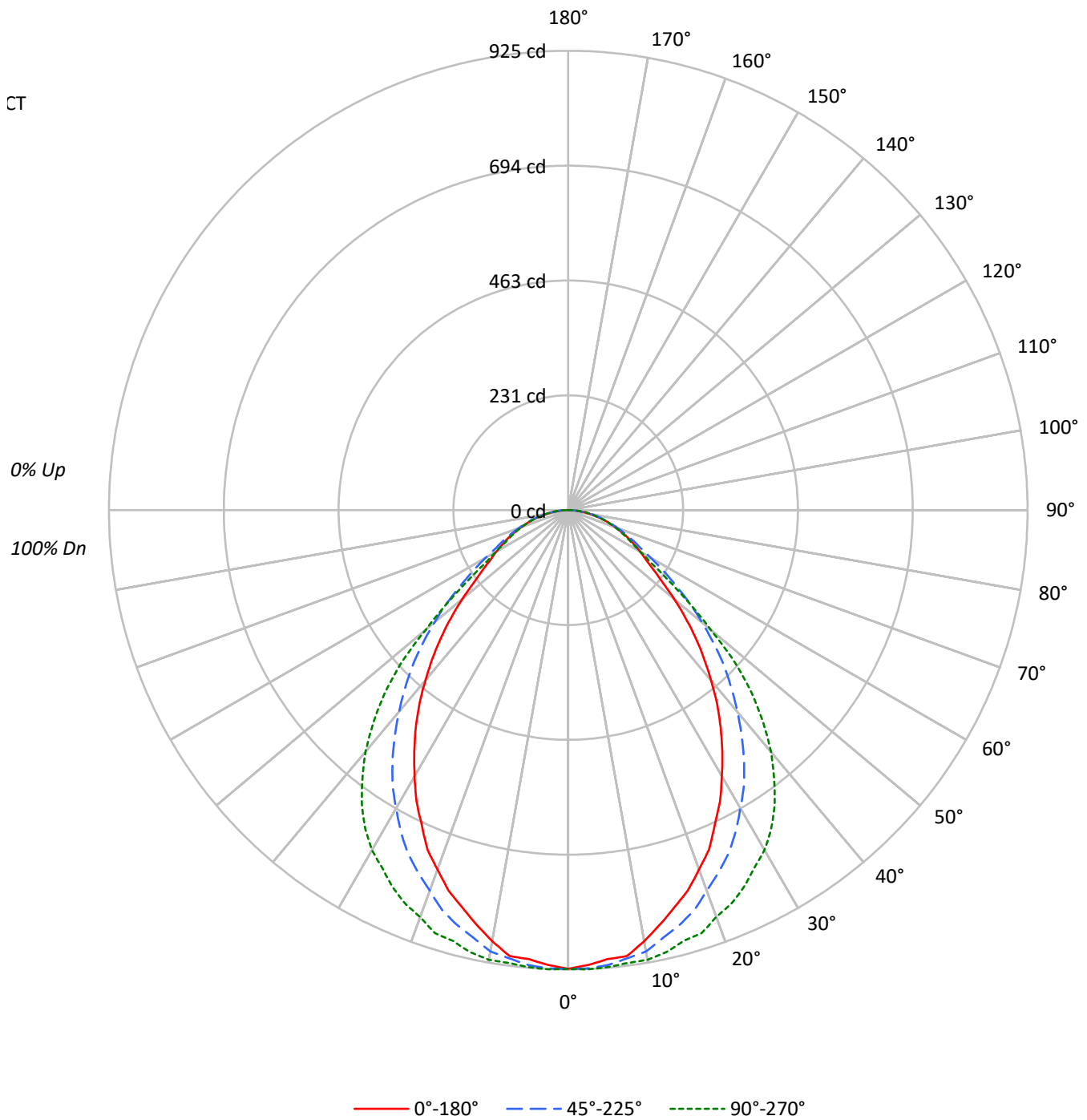
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1872.0 lumens
Efficiency: N/A
Efficacy: 125.6 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): 14.9
Input Voltage (V): 120
Input Current (Ain): 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

TEST NUMBER: P892549
CATALOG NUMBER: 2MB-2SL-LVRF-UNV-L830

Luminous Intensity Polar Plot





TEST NUMBER: P892549

CATALOG NUMBER: 2MB-2SL-LVRF-UNV-L830

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13213	13213	13213
5°	13030	13203	13263
10°	12798	13107	13355
15°	12251	12806	13300
20°	11722	12410	13269
25°	11022	12047	13218
30°	10223	11451	13058
35°	9347	10779	12656
40°	8353	9899	11860
45°	7322	8981	10603
50°	6194	7827	8341
55°	5238	6579	6111
60°	4787	5496	4812
65°	4536	4827	4363
70°	4250	4463	4178
75°	3963	4201	4013
80°	3658	3938	3872
85°	3217	3496	4202

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10603 cd/sqm



TEST NUMBER: P892549
 CATALOG NUMBER: 2MB-2SL-LVRF-UNV-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	4.7
10°-20°	243.8	13.0
20°-30°	351.5	18.8
30°-40°	387.7	20.7
40°-50°	339.3	18.1
50°-60°	223.0	11.9
60°-70°	136.3	7.3
70°-80°	78.8	4.2
80°-90°	24.4	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°	682.4	36.5
0°-40°	1070.1	57.2
0°-60°	1632.4	87.2
0°-90°	1872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1872.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	907	917	919	924	924	86
15°	827	841	865	893	898	233
25°	698	722	763	809	837	321
35°	535	558	617	686	725	334
45°	362	384	444	498	524	279
55°	210	221	264	265	245	191
65°	134	134	143	137	129	132
75°	72	72	76	78	73	76
85°	20	20	21	23	26	22
90°	0	0	0	0	0	



TEST NUMBER: P892549

CATALOG NUMBER: 2MB-2SL-LVRF-UNV-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	923.6	923.6	923.6	923.6	923.6
2.5°	916.8	921.9	923.6	927.1	925.4
5°	907.4	916.8	919.4	924.5	923.6
7.5°	905.7	902.3	910.0	920.2	919.4
10°	881.0	887.8	902.3	917.7	919.4
12.5°	854.5	865.6	881.8	908.3	911.7
15°	827.2	840.8	864.7	892.9	898.0
17.5°	802.4	816.1	844.3	875.8	892.9
20°	770.0	788.8	815.2	854.5	871.6
22.5°	740.1	755.5	789.6	832.3	857.9
25°	698.3	722.2	763.2	809.3	837.4
27.5°	661.6	683.8	729.9	781.1	811.8
30°	618.9	643.7	693.2	750.4	790.5
32.5°	577.1	600.1	658.2	717.1	760.6
35°	535.2	558.3	617.2	685.5	724.7
37.5°	492.6	516.5	573.7	643.7	681.2
40°	447.3	474.6	530.1	599.3	635.1
42.5°	404.6	430.2	486.6	554.0	581.3
45°	361.9	384.1	443.9	498.5	524.1
47.5°	319.3	340.6	397.8	443.0	457.6
50°	278.3	297.9	351.7	379.9	374.8
52.5°	239.9	257.8	309.0	320.1	305.6
55°	210.0	221.1	263.8	264.6	245.0
57.5°	185.2	193.8	227.1	218.5	197.2
60°	167.3	169.9	192.1	182.7	168.2
62.5°	149.4	151.1	163.0	156.2	145.1
65°	134.0	134.0	142.6	136.6	128.9
67.5°	116.9	117.8	123.8	120.4	114.4
70°	101.6	101.6	106.7	106.7	99.9
72.5°	86.2	86.2	90.5	91.3	87.1
75°	71.7	71.7	76.0	77.7	72.6
77.5°	58.0	58.0	61.5	64.0	58.0
80°	44.4	44.4	47.8	50.4	47.0
82.5°	31.6	32.4	34.1	36.7	36.7
85°	19.6	19.6	21.3	23.0	25.6
87.5°	8.5	9.4	10.2	11.1	12.8
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P892549
 CATALOG NUMBER: 2MB-2SL-LVRF-UNV-L830

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	16.38	17.86	16.75	18.17	18.49	17.13	18.60	17.49	18.91	19.23
	3H	17.98	19.30	18.36	19.63	19.99	18.47	19.79	18.84	20.11	20.48
	4H	18.60	19.83	19.00	20.18	20.56	19.04	20.28	19.44	20.63	21.01
	6H	19.07	20.21	19.48	20.58	20.97	19.50	20.64	19.91	21.00	21.40
	8H	19.23	20.32	19.66	20.71	21.11	19.68	20.76	20.10	21.15	21.56
	12H	19.34	20.38	19.77	20.76	21.19	19.83	20.87	20.26	21.25	21.68
4H	2H	17.01	18.24	17.41	18.59	18.97	17.60	18.84	18.01	19.19	19.57
	3H	18.81	19.84	19.23	20.24	20.64	19.21	20.23	19.62	20.64	21.04
	4H	19.55	20.47	19.98	20.89	21.33	19.94	20.86	20.37	21.28	21.72
	6H	20.15	20.95	20.61	21.39	21.85	20.55	21.35	21.01	21.79	22.26
	8H	20.35	21.10	20.82	21.55	22.01	20.79	21.54	21.25	21.98	22.45
	12H	20.50	21.17	20.98	21.65	22.12	20.99	21.66	21.47	22.14	22.61
8H	4H	19.86	20.61	20.33	21.05	21.52	20.21	20.96	20.67	21.40	21.87
	6H	20.59	21.21	21.08	21.70	22.18	20.96	21.58	21.46	22.07	22.55
	8H	20.87	21.42	21.38	21.94	22.42	21.29	21.85	21.80	22.36	22.85
	12H	21.09	21.58	21.60	22.08	22.64	21.58	22.08	22.09	22.57	23.13
12H	4H	19.90	20.56	20.38	21.04	21.52	20.23	20.89	20.71	21.37	21.85
	6H	20.65	21.21	21.17	21.72	22.21	21.01	21.57	21.52	22.08	22.57
	8H	20.99	21.49	21.50	21.98	22.54	21.40	21.89	21.91	22.38	22.95