

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: P892545

Luminaire Tested: 2MB-2SL-LVRA-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892545
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-L930
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

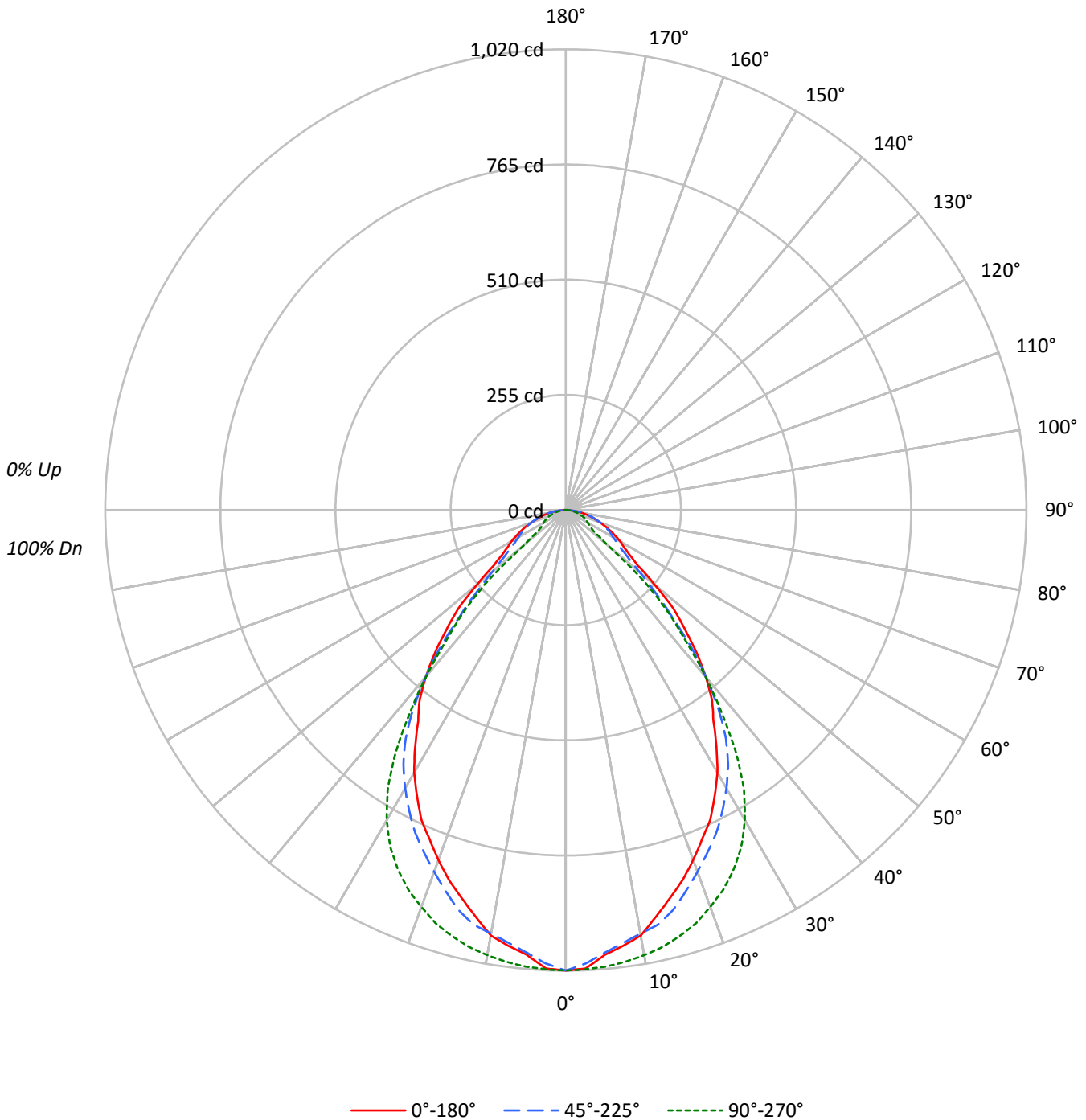
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1655.0 lumens
Efficiency: N/A
Efficacy: 111.1 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_{in}): 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	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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14587	14587	14587
5°	14195	14130	14571
10°	13893	13832	14538
15°	13175	13581	14456
20°	12552	12975	14236
25°	11939	12449	13873
30°	11092	11753	13098
35°	9946	10800	11488
40°	9010	9031	8982
45°	7534	6672	6508
50°	5691	4696	2662
55°	4280	3756	1679
60°	3977	3459	1617
65°	3700	3453	1618
70°	3384	3384	1594
75°	3211	3300	1542
80°	2966	3114	1582
85°	2593	2725	1723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7710 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	5.7
10°-20°	259.5	15.7
20°-30°	368.0	22.2
30°-40°	379.2	22.9
40°-50°	264.8	16.0
50°-60°	127.1	7.7
60°-70°	89.1	5.4
70°-80°	55.7	3.4
80°-90°	17.2	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°	721.8	43.6
0°-40°	1100.9	66.5
0°-60°	1492.8	90.2
0°-90°	1655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	988	987	984	1010	1015	94
15°	890	896	917	943	976	251
25°	756	764	789	842	879	346
35°	570	585	618	631	658	359
45°	372	381	330	313	322	287
55°	172	163	151	96	67	161
65°	109	102	102	78	48	108
75°	58	57	60	52	28	61
85°	16	16	17	16	10	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1019.7	1019.7	1019.7	1019.7	1019.7
2.5°	1015.8	1012.6	1005.0	1019.0	1017.9
5°	988.5	987.2	984.0	1009.8	1014.7
7.5°	973.0	970.3	966.7	995.0	1009.0
10°	956.4	959.6	952.2	978.2	1000.8
12.5°	922.2	930.6	940.6	960.9	990.8
15°	889.6	896.2	917.0	943.3	976.1
17.5°	859.2	866.8	884.7	924.1	959.0
20°	824.5	835.0	852.3	902.8	935.1
22.5°	788.7	798.4	820.3	874.4	910.4
25°	756.4	764.0	788.7	842.1	878.9
27.5°	713.6	727.7	751.1	802.7	841.3
30°	671.5	683.6	711.5	754.8	792.9
32.5°	620.8	638.4	669.1	702.3	734.1
35°	569.5	585.0	618.4	631.3	657.8
37.5°	532.2	536.4	555.3	553.8	568.7
40°	482.5	490.9	483.6	463.9	481.0
42.5°	428.9	438.9	409.2	386.3	392.4
45°	372.4	381.1	329.8	313.0	321.7
47.5°	323.5	322.7	266.0	254.7	242.6
50°	255.7	264.1	211.0	190.0	119.6
52.5°	199.7	202.9	174.0	121.4	78.6
55°	171.6	163.2	150.6	96.5	67.3
57.5°	152.4	141.9	133.5	89.6	61.5
60°	139.0	127.2	120.9	85.2	56.5
62.5°	123.8	114.6	112.2	81.2	52.0
65°	109.3	102.2	102.0	77.5	47.8
67.5°	94.9	90.9	92.0	73.1	43.1
70°	80.9	80.2	80.9	67.3	38.1
72.5°	69.1	68.3	70.4	59.9	32.6
75°	58.1	57.3	59.7	51.5	27.9
77.5°	46.3	46.8	48.4	42.8	23.4
80°	36.0	36.0	37.8	33.6	19.2
82.5°	25.8	26.0	27.1	24.7	15.0
85°	15.8	15.8	16.6	16.3	10.5
87.5°	5.3	6.0	7.1	7.6	5.3
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	14.96	16.31	15.32	16.62	16.94	11.29	12.64	11.65	12.96	13.27
	3H	16.70	17.90	17.08	18.23	18.60	13.27	14.47	13.65	14.80	15.17
	4H	17.37	18.50	17.77	18.85	19.23	13.97	15.10	14.37	15.45	15.83
	6H	17.88	18.91	18.29	19.28	19.68	14.49	15.53	14.91	15.90	16.30
	8H	18.05	19.03	18.48	19.42	19.83	14.68	15.67	15.11	16.06	16.46
	12H	18.16	19.10	18.59	19.48	19.91	14.82	15.76	15.25	16.14	16.57
4H	2H	15.49	16.62	15.89	16.97	17.35	12.91	14.04	13.32	14.39	14.77
	3H	17.47	18.40	17.88	18.80	19.20	15.09	16.02	15.50	16.42	16.83
	4H	18.27	19.10	18.70	19.52	19.96	15.97	16.81	16.41	17.22	17.67
	6H	18.91	19.64	19.37	20.08	20.55	16.61	17.34	17.07	17.78	18.25
	8H	19.13	19.81	19.60	20.25	20.72	16.82	17.50	17.29	17.95	18.42
	12H	19.29	19.89	19.77	20.37	20.84	16.98	17.58	17.47	18.06	18.54
8H	4H	18.55	19.23	19.02	19.68	20.15	16.62	17.30	17.09	17.74	18.21
	6H	19.34	19.89	19.84	20.39	20.87	17.48	18.04	17.98	18.53	19.01
	8H	19.64	20.14	20.16	20.65	21.14	17.81	18.31	18.33	18.82	19.31
	12H	19.87	20.31	20.39	20.81	21.38	18.07	18.51	18.59	19.01	19.58
12H	4H	18.57	19.17	19.05	19.65	20.12	16.69	17.29	17.18	17.77	18.25
	6H	19.39	19.89	19.91	20.40	20.89	17.62	18.12	18.14	18.63	19.12
	8H	19.75	20.19	20.27	20.69	21.26	18.03	18.47	18.54	18.97	19.54