

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: P892665

Luminaire Tested: 2MB-3SL-LVRF-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892665
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-3SL-LVRF-UNV-L930
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3000K C
Light Source: -
Ballast/Driver: -

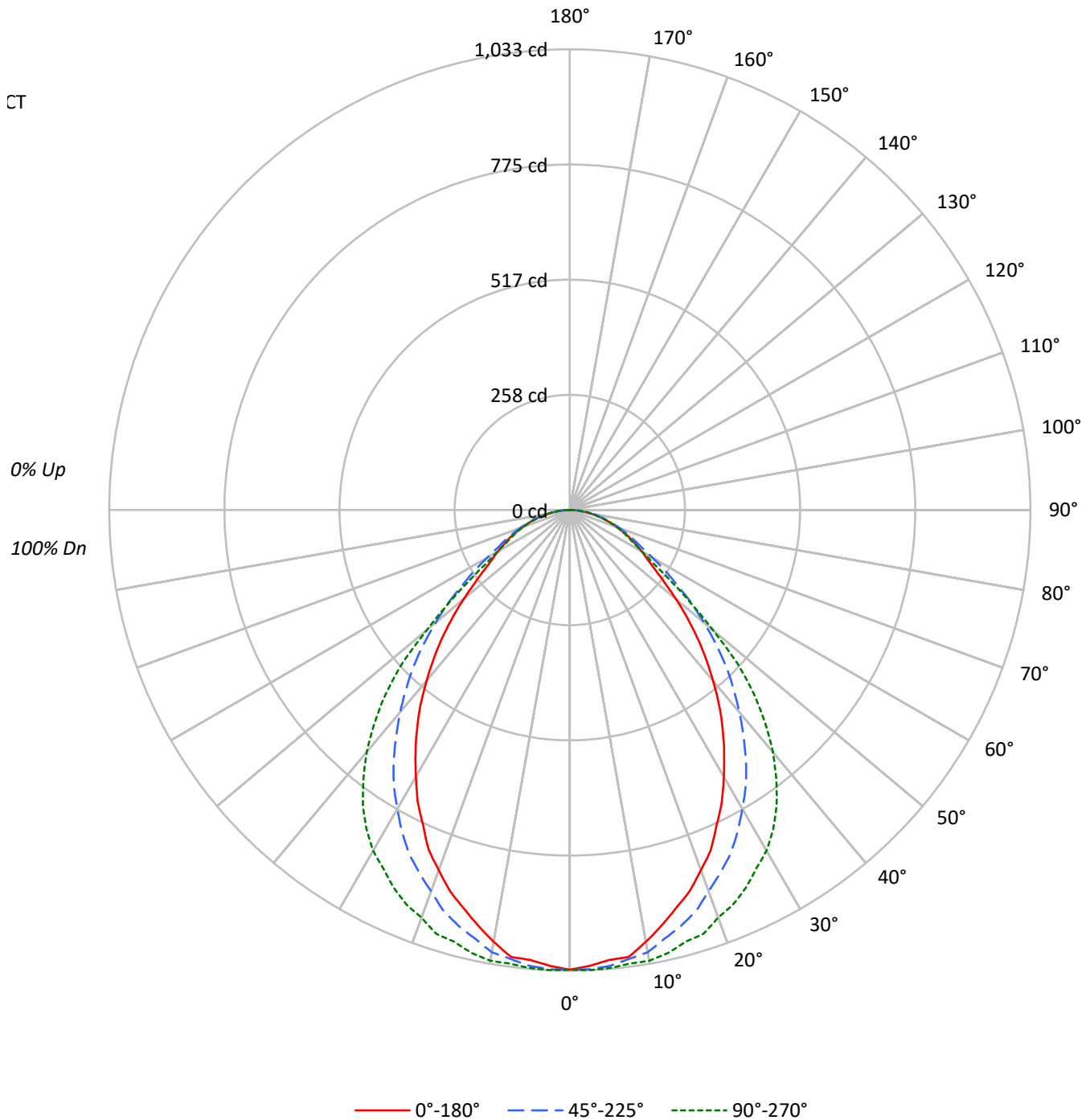
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2089.0 lumens
Efficiency: N/A
Efficacy: 99.5 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): 21
Input Voltage (V): 120
Input Current (A_{in}): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	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	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14745	14745	14745
5°	14541	14734	14801
10°	14281	14626	14904
15°	13671	14292	14841
20°	13080	13849	14806
25°	12299	13442	14750
30°	11408	12777	14571
35°	10431	12027	14125
40°	9322	11048	13235
45°	8171	10022	11833
50°	6910	8735	9307
55°	5844	7343	6819
60°	5342	6131	5370
65°	5064	5385	4868
70°	4743	4982	4664
75°	4422	4687	4477
80°	4078	4391	4317
85°	3595	3906	4694

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11833 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	4.7
10°-20°	272.1	13.0
20°-30°	392.2	18.8
30°-40°	432.6	20.7
40°-50°	378.7	18.1
50°-60°	248.8	11.9
60°-70°	152.1	7.3
70°-80°	88.0	4.2
80°-90°	27.3	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°	761.5	36.5
0°-40°	1194.1	57.2
0°-60°	1821.7	87.2
0°-90°	2089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1013	1023	1026	1032	1031	96
15°	923	938	965	996	1002	260
25°	779	806	852	903	934	359
35°	597	623	689	765	809	372
45°	404	429	495	556	585	311
55°	234	247	294	295	273	214
65°	150	150	159	152	144	148
75°	80	80	85	87	81	85
85°	22	22	24	26	29	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1030.7	1030.7	1030.7	1030.7	1030.7
2.5°	1023.1	1028.8	1030.7	1034.5	1032.6
5°	1012.6	1023.1	1026.0	1031.7	1030.7
7.5°	1010.7	1006.9	1015.5	1026.9	1026.0
10°	983.1	990.7	1006.9	1024.0	1026.0
12.5°	953.6	965.9	984.0	1013.6	1017.4
15°	923.1	938.3	965.0	996.4	1002.1
17.5°	895.4	910.7	942.1	977.4	996.4
20°	859.2	880.2	909.7	953.6	972.6
22.5°	825.9	843.1	881.2	928.8	957.4
25°	779.2	805.9	851.6	903.1	934.5
27.5°	738.3	763.0	814.5	871.6	905.9
30°	690.6	718.3	773.5	837.3	882.1
32.5°	644.0	669.7	734.5	800.2	848.8
35°	597.3	623.0	688.7	764.9	808.8
37.5°	549.7	576.3	640.1	718.3	760.2
40°	499.2	529.6	591.6	668.7	708.7
42.5°	451.5	480.1	543.0	618.2	648.7
45°	403.9	428.7	495.4	556.3	584.9
47.5°	356.3	380.1	443.9	494.4	510.6
50°	310.5	332.5	392.5	423.9	418.2
52.5°	267.7	287.7	344.8	357.2	341.0
55°	234.3	246.7	294.4	295.3	273.4
57.5°	206.7	216.2	253.4	243.9	220.1
60°	186.7	189.6	214.3	203.9	187.7
62.5°	166.7	168.6	181.9	174.3	161.9
65°	149.6	149.6	159.1	152.4	143.8
67.5°	130.5	131.5	138.1	134.3	127.6
70°	113.4	113.4	119.1	119.1	111.5
72.5°	96.2	96.2	101.0	101.9	97.2
75°	80.0	80.0	84.8	86.7	81.0
77.5°	64.8	64.8	68.6	71.4	64.8
80°	49.5	49.5	53.3	56.2	52.4
82.5°	35.2	36.2	38.1	41.0	41.0
85°	21.9	21.9	23.8	25.7	28.6
87.5°	9.5	10.5	11.4	12.4	14.3
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	16.76	18.24	17.13	18.55	18.87	17.51	18.98	17.87	19.30	19.61
	3H	18.36	19.68	18.74	20.01	20.37	18.85	20.17	19.23	20.50	20.86
	4H	18.98	20.21	19.38	20.56	20.94	19.42	20.66	19.82	21.01	21.39
	6H	19.45	20.60	19.87	20.96	21.36	19.88	21.02	20.29	21.39	21.78
	8H	19.61	20.70	20.04	21.09	21.49	20.06	21.15	20.49	21.54	21.94
	12H	19.72	20.76	20.15	21.14	21.57	20.21	21.25	20.64	21.63	22.06
4H	2H	17.39	18.62	17.79	18.97	19.35	17.99	19.22	18.39	19.57	19.95
	3H	19.20	20.22	19.61	20.62	21.02	19.59	20.62	20.00	21.02	21.42
	4H	19.93	20.85	20.36	21.27	21.71	20.32	21.24	20.75	21.66	22.10
	6H	20.53	21.33	20.99	21.77	22.24	20.93	21.73	21.39	22.18	22.64
	8H	20.73	21.48	21.20	21.93	22.40	21.17	21.92	21.63	22.36	22.83
	12H	20.88	21.55	21.36	22.03	22.50	21.37	22.04	21.86	22.52	22.99
8H	4H	20.24	20.99	20.71	21.44	21.90	20.59	21.34	21.05	21.78	22.25
	6H	20.97	21.59	21.46	22.08	22.56	21.34	21.96	21.84	22.45	22.93
	8H	21.25	21.81	21.76	22.32	22.81	21.67	22.23	22.18	22.74	23.23
	12H	21.47	21.97	21.98	22.46	23.02	21.96	22.46	22.47	22.95	23.52
12H	4H	20.28	20.94	20.76	21.42	21.90	20.61	21.28	21.09	21.75	22.23
	6H	21.03	21.59	21.55	22.10	22.59	21.39	21.95	21.90	22.46	22.95
	8H	21.37	21.87	21.88	22.36	22.93	21.78	22.27	22.29	22.76	23.33