

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: P892547

Luminaire Tested: 2MB-2SL-LVRA-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892547
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-L940
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

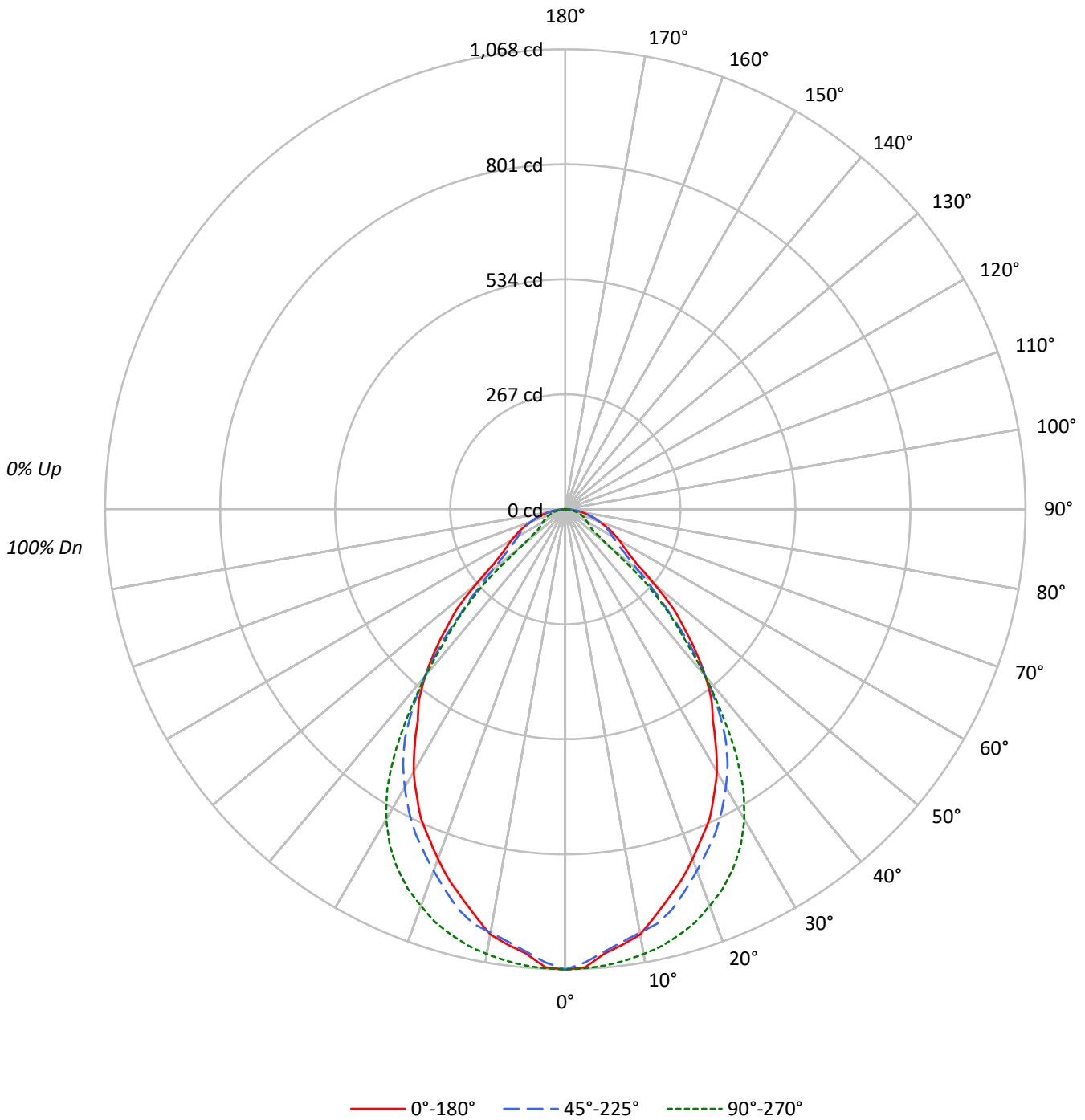
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1734.0 lumens
Efficiency: N/A
Efficacy: 116.4 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15284	15284	15284
5°	14871	14805	15268
10°	14557	14491	15232
15°	13805	14228	15146
20°	13150	13595	14915
25°	12509	13044	14534
30°	11622	12313	13724
35°	10421	11315	12036
40°	9442	9462	9410
45°	7894	6992	6818
50°	5962	4921	2789
55°	4484	3936	1758
60°	4169	3625	1694
65°	3879	3615	1696
70°	3547	3547	1669
75°	3366	3455	1614
80°	3106	3271	1656
85°	2708	2840	1806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8078 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	5.7
10°-20°	271.9	15.7
20°-30°	385.6	22.2
30°-40°	397.3	22.9
40°-50°	277.5	16.0
50°-60°	133.1	7.7
60°-70°	93.4	5.4
70°-80°	58.4	3.4
80°-90°	18.1	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°	756.2	43.6
0°-40°	1153.5	66.5
0°-60°	1564.1	90.2
0°-90°	1734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1734.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1036	1034	1031	1058	1063	98
15°	932	939	961	988	1023	262
25°	792	800	826	882	921	362
35°	597	613	648	661	689	376
45°	390	399	346	328	337	301
55°	180	171	158	101	70	168
65°	115	107	107	81	50	114
75°	61	60	62	54	29	64
85°	16	16	17	17	11	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.4	1068.4	1068.4	1068.4	1068.4
2.5°	1064.3	1061.0	1053.0	1067.6	1066.5
5°	1035.6	1034.3	1031.0	1058.0	1063.2
7.5°	1019.4	1016.6	1012.8	1042.5	1057.1
10°	1002.1	1005.4	997.6	1024.9	1048.6
12.5°	966.3	975.1	985.5	1006.7	1038.1
15°	932.1	939.0	960.7	988.3	1022.7
17.5°	900.2	908.2	926.9	968.2	1004.8
20°	863.8	874.8	893.0	945.9	979.7
22.5°	826.4	836.6	859.4	916.1	953.9
25°	792.5	800.5	826.4	882.3	920.8
27.5°	747.6	762.5	787.0	841.0	881.4
30°	703.6	716.2	745.4	790.8	830.8
32.5°	650.4	668.9	701.1	735.8	769.1
35°	596.7	613.0	647.9	661.4	689.2
37.5°	557.6	562.0	581.8	580.2	595.9
40°	505.6	514.4	506.7	486.0	503.9
42.5°	449.4	459.9	428.7	404.8	411.1
45°	390.2	399.3	345.6	328.0	337.0
47.5°	339.0	338.1	278.7	266.8	254.2
50°	267.9	276.7	221.1	199.1	125.3
52.5°	209.3	212.6	182.3	127.2	82.3
55°	179.8	171.0	157.8	101.1	70.5
57.5°	159.7	148.7	139.9	93.9	64.4
60°	145.7	133.3	126.7	89.2	59.2
62.5°	129.7	120.1	117.6	85.1	54.5
65°	114.6	107.1	106.8	81.2	50.1
67.5°	99.4	95.3	96.4	76.6	45.2
70°	84.8	84.0	84.8	70.5	39.9
72.5°	72.4	71.6	73.8	62.8	34.1
75°	60.9	60.0	62.5	54.0	29.2
77.5°	48.5	49.0	50.7	44.9	24.5
80°	37.7	37.7	39.7	35.2	20.1
82.5°	27.0	27.3	28.4	25.9	15.7
85°	16.5	16.5	17.3	17.1	11.0
87.5°	5.5	6.3	7.4	8.0	5.5
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	15.12	16.47	15.49	16.79	17.10	11.45	12.81	11.82	13.12	13.43
	3H	16.86	18.07	17.24	18.40	18.76	13.43	14.64	13.81	14.97	15.33
	4H	17.53	18.66	17.93	19.01	19.39	14.13	15.26	14.54	15.61	15.99
	6H	18.04	19.08	18.45	19.45	19.84	14.66	15.70	15.07	16.06	16.46
	8H	18.21	19.19	18.64	19.59	19.99	14.84	15.83	15.27	16.22	16.62
	12H	18.32	19.26	18.75	19.64	20.07	14.98	15.92	15.41	16.31	16.74
4H	2H	15.65	16.78	16.05	17.13	17.51	13.07	14.20	13.48	14.55	14.93
	3H	17.63	18.56	18.04	18.96	19.36	15.25	16.18	15.67	16.59	16.99
	4H	18.43	19.27	18.86	19.68	20.13	16.13	16.97	16.57	17.39	17.83
	6H	19.07	19.80	19.53	20.24	20.71	16.78	17.50	17.24	17.95	18.41
	8H	19.29	19.97	19.76	20.42	20.89	16.98	17.66	17.45	18.11	18.58
	12H	19.45	20.05	19.93	20.53	21.00	17.14	17.74	17.63	18.22	18.70
8H	4H	18.71	19.39	19.18	19.84	20.31	16.78	17.46	17.25	17.91	18.38
	6H	19.50	20.05	20.00	20.55	21.03	17.64	18.20	18.14	18.69	19.17
	8H	19.80	20.30	20.32	20.81	21.30	17.97	18.47	18.49	18.98	19.48
	12H	20.03	20.48	20.55	20.97	21.54	18.23	18.68	18.75	19.17	19.74
12H	4H	18.73	19.33	19.22	19.81	20.29	16.86	17.46	17.34	17.94	18.41
	6H	19.55	20.05	20.07	20.56	21.05	17.78	18.28	18.30	18.79	19.29
	8H	19.92	20.36	20.43	20.85	21.42	18.19	18.63	18.71	19.13	19.70