

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: P892668

Luminaire Tested: 2MB-3SL-LVRF-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892668
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-L950
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K C
Light Source: -
Ballast/Driver: -

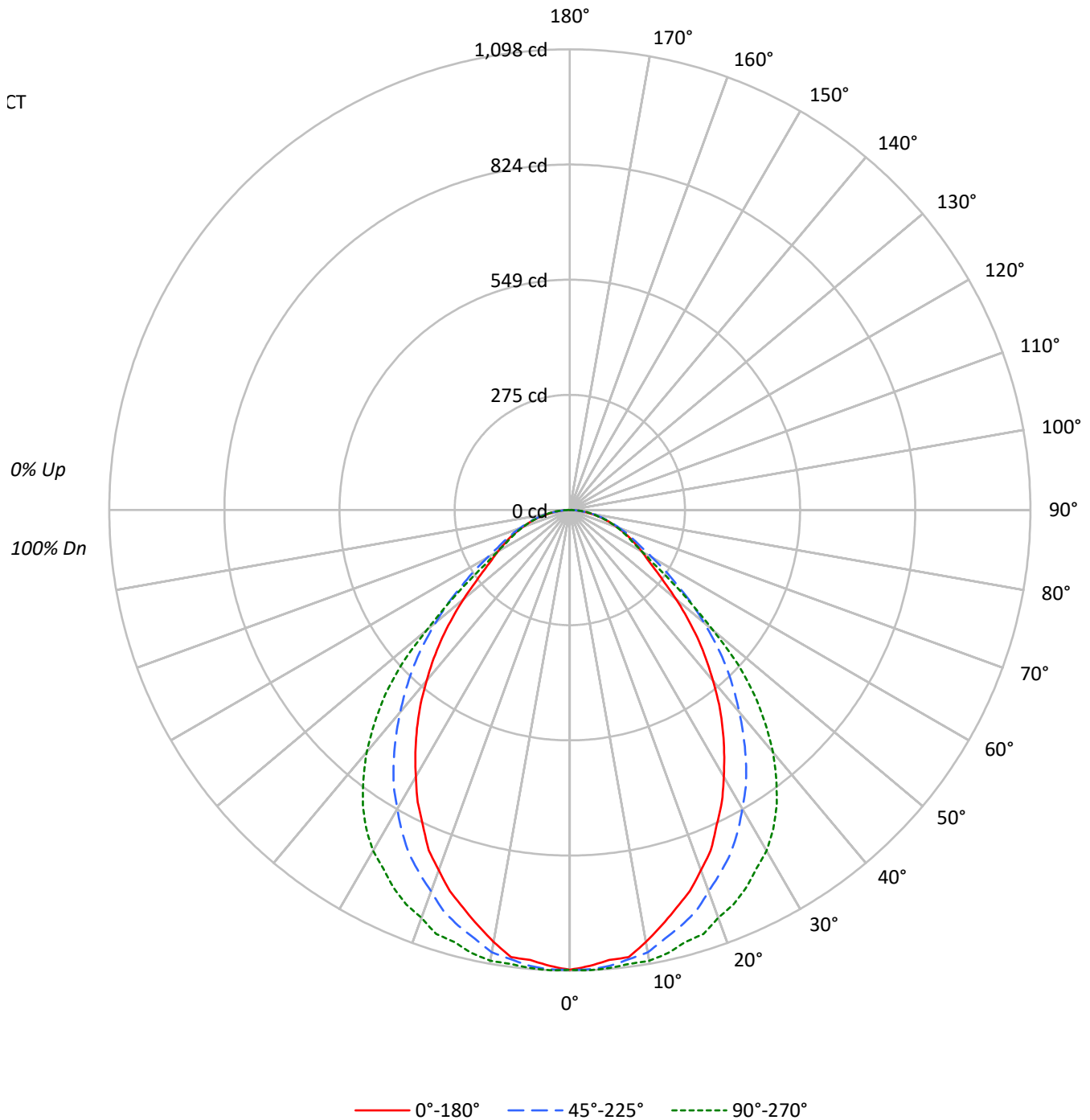
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2221.0 lumens
Efficiency: N/A
Efficacy: 105.8 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	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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15676	15676	15676
5°	15460	15664	15736
10°	15183	15550	15845
15°	14535	15195	15780
20°	13907	14724	15743
25°	13077	14291	15683
30°	12130	13585	15491
35°	11090	12789	15017
40°	9911	11744	14071
45°	8687	10656	12582
50°	7349	9287	9895
55°	6213	7806	7250
60°	5679	6520	5708
65°	5382	5724	5176
70°	5040	5295	4956
75°	4704	4980	4759
80°	4342	4671	4589
85°	3824	4153	4990

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12582 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	4.7
10°-20°	289.3	13.0
20°-30°	417.0	18.8
30°-40°	459.9	20.7
40°-50°	402.6	18.1
50°-60°	264.6	11.9
60°-70°	161.7	7.3
70°-80°	93.6	4.2
80°-90°	29.0	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°	809.6	36.5
0°-40°	1269.6	57.2
0°-60°	1936.8	87.2
0°-90°	2221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1077	1088	1091	1097	1096	102
15°	981	998	1026	1059	1066	276
25°	828	857	905	960	994	381
35°	635	662	732	813	860	396
45°	429	456	527	592	622	331
55°	249	262	313	314	291	227
65°	159	159	169	162	153	157
75°	85	85	90	92	86	90
85°	23	23	25	27	30	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1095.8	1095.8	1095.8	1095.8	1095.8
2.5°	1087.7	1093.8	1095.8	1099.9	1097.9
5°	1076.6	1087.7	1090.8	1096.9	1095.8
7.5°	1074.6	1070.5	1079.6	1091.8	1090.8
10°	1045.2	1053.3	1070.5	1088.8	1090.8
12.5°	1013.8	1027.0	1046.2	1077.6	1081.7
15°	981.4	997.6	1026.0	1059.4	1065.5
17.5°	952.0	968.2	1001.7	1039.1	1059.4
20°	913.5	935.8	967.2	1013.8	1034.1
22.5°	878.1	896.3	936.8	987.5	1017.9
25°	828.5	856.8	905.4	960.1	993.6
27.5°	784.9	811.2	865.9	926.7	963.2
30°	734.3	763.6	822.4	890.2	937.8
32.5°	684.7	712.0	780.9	850.7	902.4
35°	635.0	662.4	732.3	813.3	859.9
37.5°	584.4	612.7	680.6	763.6	808.2
40°	530.7	563.1	628.9	711.0	753.5
42.5°	480.1	510.4	577.3	657.3	689.7
45°	429.4	455.8	526.7	591.5	621.9
47.5°	378.8	404.1	472.0	525.6	542.9
50°	330.2	353.5	417.3	450.7	444.6
52.5°	284.6	305.9	366.6	379.8	362.6
55°	249.1	262.3	313.0	314.0	290.7
57.5°	219.8	229.9	269.4	259.3	234.0
60°	198.5	201.5	227.9	216.7	199.5
62.5°	177.2	179.3	193.4	185.3	172.2
65°	159.0	159.0	169.1	162.0	152.9
67.5°	138.8	139.8	146.9	142.8	135.7
70°	120.5	120.5	126.6	126.6	118.5
72.5°	102.3	102.3	107.4	108.4	103.3
75°	85.1	85.1	90.1	92.2	86.1
77.5°	68.9	68.9	72.9	76.0	68.9
80°	52.7	52.7	56.7	59.8	55.7
82.5°	37.5	38.5	40.5	43.6	43.6
85°	23.3	23.3	25.3	27.3	30.4
87.5°	10.1	11.1	12.2	13.2	15.2
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	16.98	18.45	17.34	18.76	19.08	17.72	19.20	18.09	19.51	19.82
	3H	18.57	19.89	18.95	20.22	20.58	19.06	20.38	19.44	20.71	21.07
	4H	19.19	20.43	19.59	20.78	21.16	19.63	20.87	20.03	21.22	21.60
	6H	19.67	20.81	20.08	21.18	21.57	20.09	21.23	20.50	21.60	21.99
	8H	19.83	20.91	20.25	21.30	21.70	20.27	21.36	20.70	21.75	22.15
	12H	19.93	20.97	20.36	21.35	21.78	20.42	21.46	20.85	21.84	22.27
4H	2H	17.60	18.84	18.00	19.19	19.57	18.20	19.44	18.60	19.79	20.17
	3H	19.41	20.43	19.82	20.83	21.24	19.80	20.83	20.22	21.23	21.63
	4H	20.14	21.07	20.58	21.48	21.92	20.53	21.45	20.97	21.87	22.31
	6H	20.74	21.54	21.20	21.99	22.45	21.14	21.95	21.60	22.39	22.85
	8H	20.95	21.70	21.41	22.14	22.61	21.38	22.13	21.85	22.58	23.04
	12H	21.10	21.77	21.58	22.24	22.72	21.59	22.25	22.07	22.73	23.20
8H	4H	20.45	21.20	20.92	21.65	22.12	20.80	21.55	21.26	21.99	22.46
	6H	21.18	21.80	21.68	22.29	22.77	21.56	22.18	22.05	22.67	23.15
	8H	21.46	22.02	21.98	22.53	23.02	21.88	22.44	22.40	22.95	23.44
	12H	21.69	22.18	22.20	22.67	23.24	22.18	22.67	22.69	23.16	23.73
12H	4H	20.49	21.16	20.97	21.64	22.11	20.82	21.49	21.30	21.97	22.44
	6H	21.25	21.80	21.76	22.31	22.80	21.60	22.16	22.12	22.67	23.16
	8H	21.59	22.08	22.10	22.57	23.14	21.99	22.49	22.50	22.98	23.54