

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: P892666

Luminaire Tested: 2MB-3SL-LVRF-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892666
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-L935
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K C
Light Source: -
Ballast/Driver: -

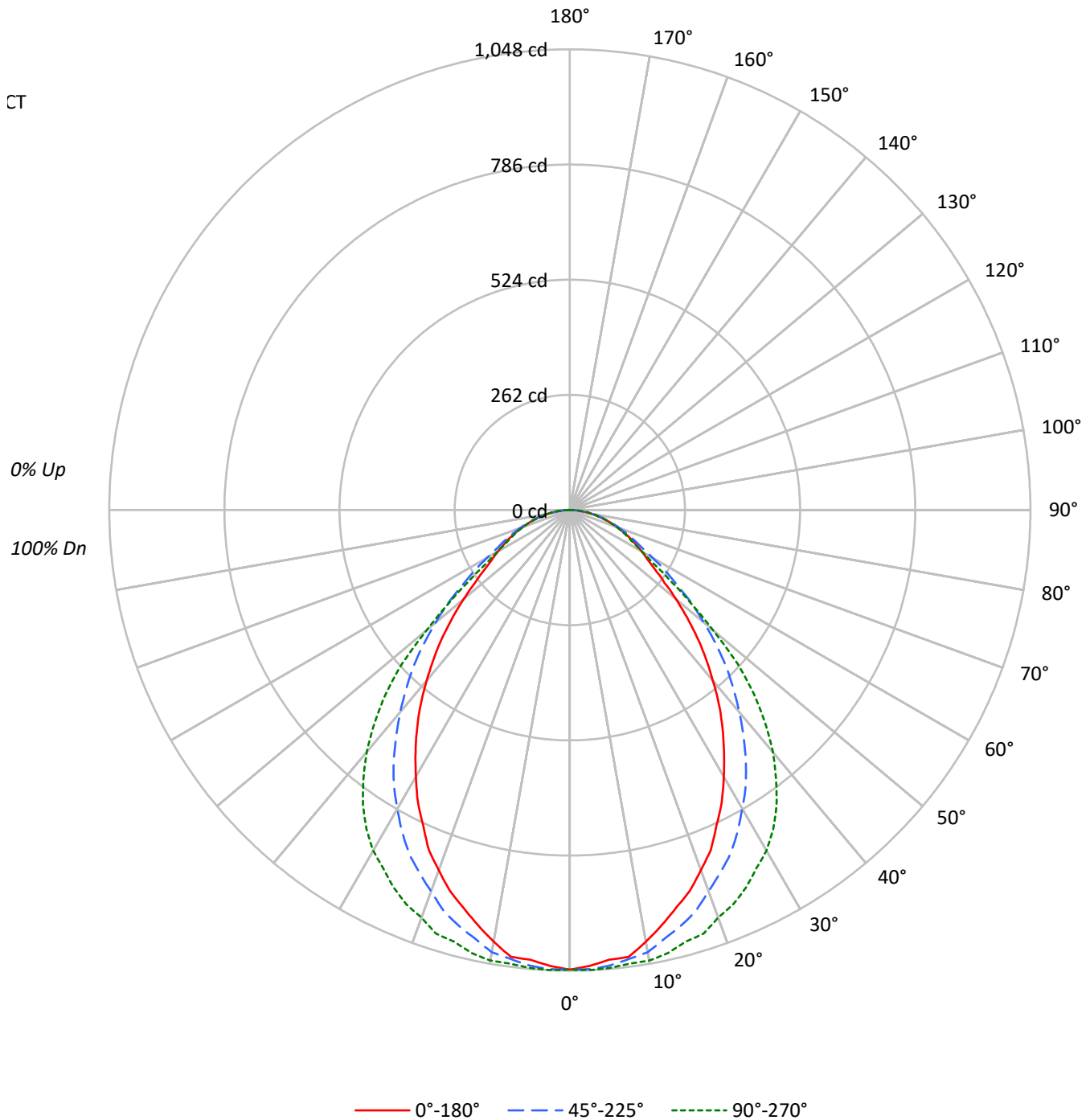
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2119.0 lumens
Efficiency: N/A
Efficacy: 100.9 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 (Ain): 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°	14956	14956	14956
5°	14751	14945	15014
10°	14486	14837	15117
15°	13867	14496	15055
20°	13269	14048	15020
25°	12476	13636	14962
30°	11573	12960	14781
35°	10581	12200	14327
40°	9455	11207	13425
45°	8289	10166	12003
50°	7010	8860	9441
55°	5928	7447	6916
60°	5419	6220	5448
65°	5135	5463	4939
70°	4810	5053	4731
75°	4488	4753	4538
80°	4136	4457	4374
85°	3644	3972	4760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12003 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	4.7
10°-20°	276.0	13.0
20°-30°	397.8	18.8
30°-40°	438.8	20.7
40°-50°	384.1	18.1
50°-60°	252.4	11.9
60°-70°	154.2	7.3
70°-80°	89.2	4.2
80°-90°	27.7	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°	772.5	36.5
0°-40°	1211.3	57.2
0°-60°	1847.8	87.2
0°-90°	2119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2119.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1027	1038	1041	1046	1046	98
15°	936	952	979	1011	1016	264
25°	790	818	864	916	948	364
35°	606	632	699	776	820	378
45°	410	435	502	564	593	315
55°	238	250	299	300	277	217
65°	152	152	161	155	146	150
75°	81	81	86	88	82	86
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°	1045.5	1045.5	1045.5	1045.5	1045.5
2.5°	1037.8	1043.6	1045.5	1049.4	1047.5
5°	1027.2	1037.8	1040.7	1046.5	1045.5
7.5°	1025.2	1021.4	1030.1	1041.7	1040.7
10°	997.2	1004.9	1021.4	1038.8	1040.7
12.5°	967.2	979.8	998.2	1028.1	1032.0
15°	936.3	951.8	978.8	1010.7	1016.5
17.5°	908.3	923.8	955.7	991.4	1010.7
20°	871.6	892.8	922.8	967.2	986.6
22.5°	837.8	855.2	893.8	942.1	971.1
25°	790.4	817.5	863.9	916.0	947.9
27.5°	748.9	774.0	826.2	884.1	918.9
30°	700.6	728.6	784.6	849.4	894.8
32.5°	653.2	679.3	745.0	811.7	861.0
35°	605.9	631.9	698.6	775.9	820.4
37.5°	557.5	584.6	649.3	728.6	771.1
40°	506.3	537.3	600.1	678.3	718.9
42.5°	458.0	487.0	550.8	627.1	658.0
45°	409.7	434.8	502.5	564.3	593.3
47.5°	361.4	385.5	450.3	501.5	517.9
50°	315.0	337.2	398.1	430.0	424.2
52.5°	271.5	291.8	349.8	362.4	345.9
55°	237.7	250.3	298.6	299.5	277.3
57.5°	209.7	219.3	257.0	247.4	223.2
60°	189.4	192.3	217.4	206.8	190.4
62.5°	169.1	171.0	184.6	176.8	164.3
65°	151.7	151.7	161.4	154.6	145.9
67.5°	132.4	133.3	140.1	136.2	129.5
70°	115.0	115.0	120.8	120.8	113.1
72.5°	97.6	97.6	102.4	103.4	98.6
75°	81.2	81.2	86.0	87.9	82.1
77.5°	65.7	65.7	69.6	72.5	65.7
80°	50.2	50.2	54.1	57.0	53.1
82.5°	35.8	36.7	38.7	41.6	41.6
85°	22.2	22.2	24.2	26.1	29.0
87.5°	9.7	10.6	11.6	12.6	14.5
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	16.81	18.29	17.18	18.60	18.91	17.56	19.03	17.92	19.35	19.66
	3H	18.41	19.73	18.79	20.06	20.42	18.90	20.22	19.28	20.55	20.91
	4H	19.03	20.26	19.43	20.61	20.99	19.47	20.71	19.87	21.06	21.44
	6H	19.50	20.64	19.92	21.01	21.40	19.93	21.07	20.34	21.44	21.83
	8H	19.66	20.75	20.09	21.14	21.54	20.11	21.19	20.54	21.58	21.99
	12H	19.77	20.81	20.20	21.19	21.62	20.26	21.30	20.69	21.68	22.11
4H	2H	17.44	18.67	17.84	19.02	19.40	18.04	19.27	18.44	19.62	20.00
	3H	19.25	20.27	19.66	20.67	21.07	19.64	20.67	20.05	21.07	21.47
	4H	19.98	20.90	20.41	21.32	21.76	20.37	21.29	20.80	21.71	22.15
	6H	20.58	21.38	21.04	21.82	22.28	20.98	21.78	21.44	22.22	22.69
	8H	20.78	21.53	21.25	21.98	22.45	21.22	21.97	21.68	22.41	22.88
	12H	20.93	21.60	21.41	22.08	22.55	21.42	22.09	21.90	22.57	23.04
8H	4H	20.29	21.04	20.76	21.49	21.95	20.64	21.39	21.10	21.83	22.30
	6H	21.02	21.64	21.51	22.13	22.61	21.39	22.01	21.89	22.50	22.98
	8H	21.30	21.86	21.81	22.37	22.85	21.72	22.28	22.23	22.79	23.28
	12H	21.52	22.02	22.03	22.51	23.07	22.01	22.51	22.52	23.00	23.57
12H	4H	20.33	20.99	20.81	21.47	21.95	20.66	21.32	21.14	21.80	22.28
	6H	21.08	21.64	21.60	22.15	22.64	21.44	22.00	21.95	22.51	23.00
	8H	21.42	21.92	21.93	22.41	22.98	21.83	22.32	22.34	22.81	23.38