

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: P893073

Luminaire Tested: 2MB-SC3-LVRF-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

**Test Information**

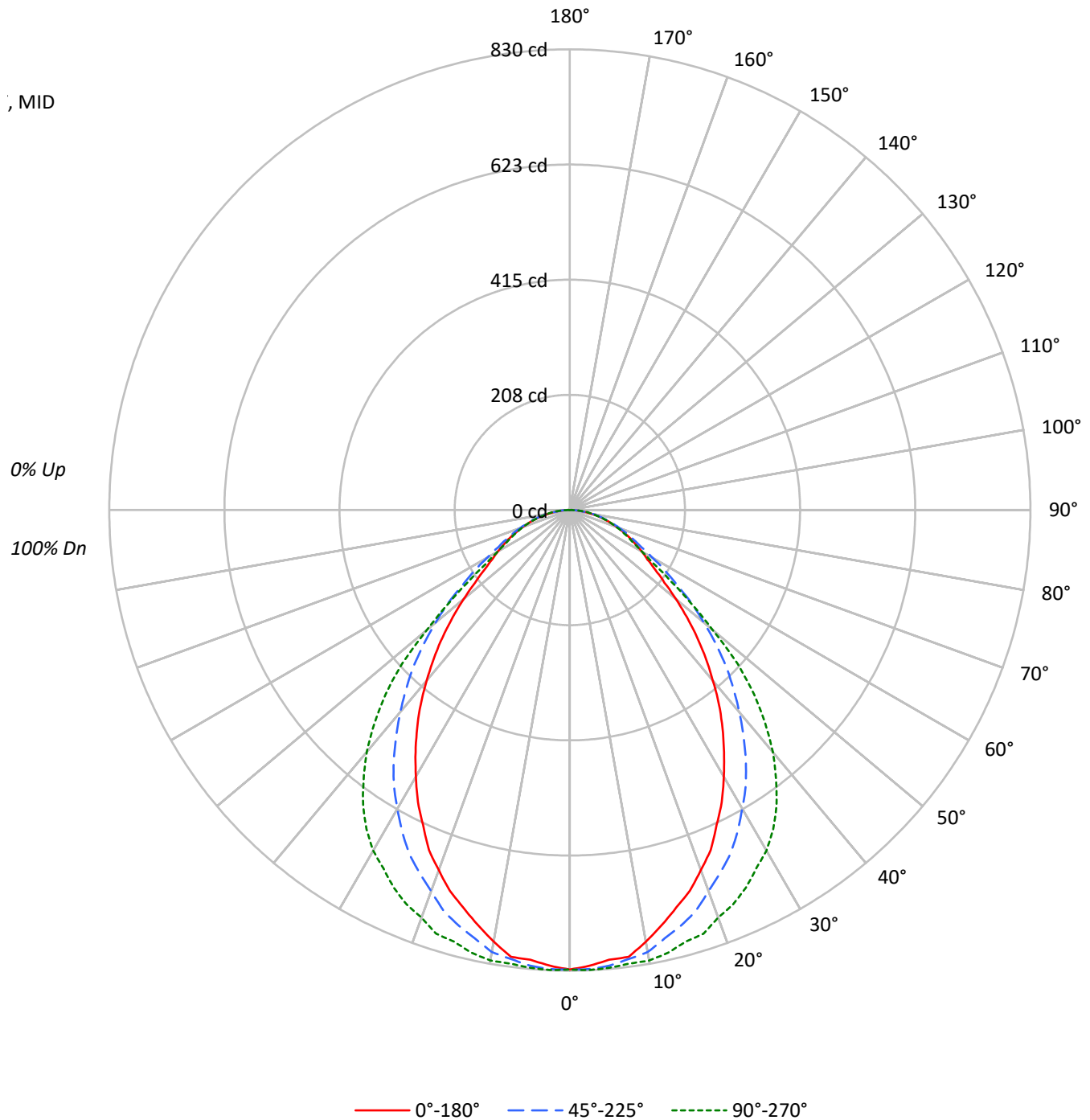
Test Method: LM-79-2019  
Report Number: P893073  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVRF-UNV-CC83-MID-5000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K CCT  
lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1678.0 lumens  
Efficiency: N/A  
Efficacy: 120.7 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): 13.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9948  
Total Harmonic Distortion (THDi): 5.65231997856897  
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°	11844	11844	11844
5°	11681	11834	11889
10°	11471	11749	11971
15°	10982	11479	11922
20°	10507	11124	11894
25°	9879	10798	11848
30°	9164	10263	11705
35°	8379	9661	11344
40°	7488	8874	10631
45°	6563	8050	9505
50°	5550	7017	7476
55°	4694	5896	5477
60°	4292	4927	4312
65°	4065	4326	3910
70°	3810	3999	3743
75°	3554	3764	3593
80°	3279	3534	3468
85°	2889	3135	3775

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 9505 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.1	4.7
10°-20°	218.6	13.0
20°-30°	315.0	18.8
30°-40°	347.5	20.7
40°-50°	304.2	18.1
50°-60°	199.9	11.9
60°-70°	122.1	7.3
70°-80°	70.7	4.2
80°-90°	21.9	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°	611.7	36.5
0°-40°	959.2	57.2
0°-60°	1463.2	87.2
0°-90°	1678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1678.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	813	822	824	829	828	77
15°	742	754	775	800	805	209
25°	626	647	684	725	751	288
35°	480	500	553	614	650	299
45°	324	344	398	447	470	250
55°	188	198	236	237	220	172
65°	120	120	128	122	116	119
75°	64	64	68	70	65	68
85°	18	18	19	21	23	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	827.9	827.9	827.9	827.9	827.9
2.5°	821.8	826.4	827.9	831.0	829.5
5°	813.4	821.8	824.1	828.7	827.9
7.5°	811.9	808.8	815.7	824.9	824.1
10°	789.7	795.8	808.8	822.6	824.1
12.5°	765.9	775.9	790.4	814.2	817.2
15°	741.5	753.7	775.1	800.4	805.0
17.5°	719.3	731.5	756.8	785.1	800.4
20°	690.2	707.0	730.7	765.9	781.3
22.5°	663.4	677.2	707.8	746.1	769.0
25°	625.9	647.3	684.1	725.4	750.6
27.5°	593.0	612.9	654.2	700.1	727.7
30°	554.8	576.9	621.3	672.6	708.6
32.5°	517.3	537.9	590.0	642.8	681.8
35°	479.8	500.4	553.2	614.4	649.6
37.5°	441.5	462.9	514.2	576.9	610.6
40°	401.0	425.4	475.2	537.2	569.3
42.5°	362.7	385.7	436.2	496.6	521.1
45°	324.4	344.3	397.9	446.9	469.8
47.5°	286.2	305.3	356.6	397.1	410.1
50°	249.4	267.0	315.3	340.5	335.9
52.5°	215.0	231.1	277.0	286.9	273.9
55°	188.2	198.2	236.4	237.2	219.6
57.5°	166.0	173.7	203.5	195.9	176.8
60°	150.0	152.3	172.2	163.7	150.7
62.5°	133.9	135.4	146.1	140.0	130.1
65°	120.1	120.1	127.8	122.4	115.5
67.5°	104.8	105.6	111.0	107.9	102.5
70°	91.1	91.1	95.6	95.6	89.5
72.5°	77.3	77.3	81.1	81.9	78.0
75°	64.3	64.3	68.1	69.6	65.0
77.5°	52.0	52.0	55.1	57.4	52.0
80°	39.8	39.8	42.9	45.1	42.1
82.5°	28.3	29.1	30.6	32.9	32.9
85°	17.6	17.6	19.1	20.7	23.0
87.5°	7.7	8.4	9.2	9.9	11.5
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	16.00	17.48	16.37	17.79	18.10	16.75	18.22	17.11	18.54	18.85
	3H	17.60	18.92	17.98	19.25	19.61	18.09	19.41	18.46	19.73	20.10
	4H	18.22	19.45	18.62	19.80	20.18	18.66	19.90	19.06	20.24	20.62
	6H	18.69	19.83	19.11	20.20	20.59	19.11	20.26	19.53	20.62	21.02
	8H	18.85	19.94	19.28	20.33	20.73	19.30	20.38	19.72	20.77	21.17
	12H	18.96	20.00	19.39	20.38	20.81	19.45	20.49	19.88	20.87	21.30
4H	2H	16.63	17.86	17.03	18.21	18.59	17.23	18.46	17.63	18.81	19.19
	3H	18.43	19.46	18.85	19.86	20.26	18.83	19.85	19.24	20.26	20.66
	4H	19.17	20.09	19.60	20.51	20.95	19.56	20.48	19.99	20.90	21.33
	6H	19.77	20.57	20.23	21.01	21.47	20.17	20.97	20.63	21.41	21.87
	8H	19.97	20.72	20.44	21.17	21.64	20.41	21.16	20.87	21.60	22.07
	12H	20.12	20.79	20.60	21.27	21.74	20.61	21.28	21.09	21.76	22.23
8H	4H	19.48	20.23	19.95	20.68	21.14	19.82	20.57	20.29	21.02	21.49
	6H	20.21	20.83	20.70	21.32	21.80	20.58	21.20	21.08	21.69	22.17
	8H	20.49	21.05	21.00	21.56	22.05	20.91	21.46	21.42	21.98	22.46
	12H	20.71	21.21	21.22	21.70	22.26	21.20	21.70	21.71	22.19	22.75
12H	4H	19.52	20.18	20.00	20.66	21.14	19.84	20.51	20.33	20.99	21.46
	6H	20.27	20.83	20.79	21.34	21.83	20.63	21.19	21.14	21.70	22.19
	8H	20.61	21.11	21.12	21.60	22.17	21.02	21.51	21.53	22.00	22.57