

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: P893034

Luminaire Tested: 2MB-SC3-LVR-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

**Test Information**

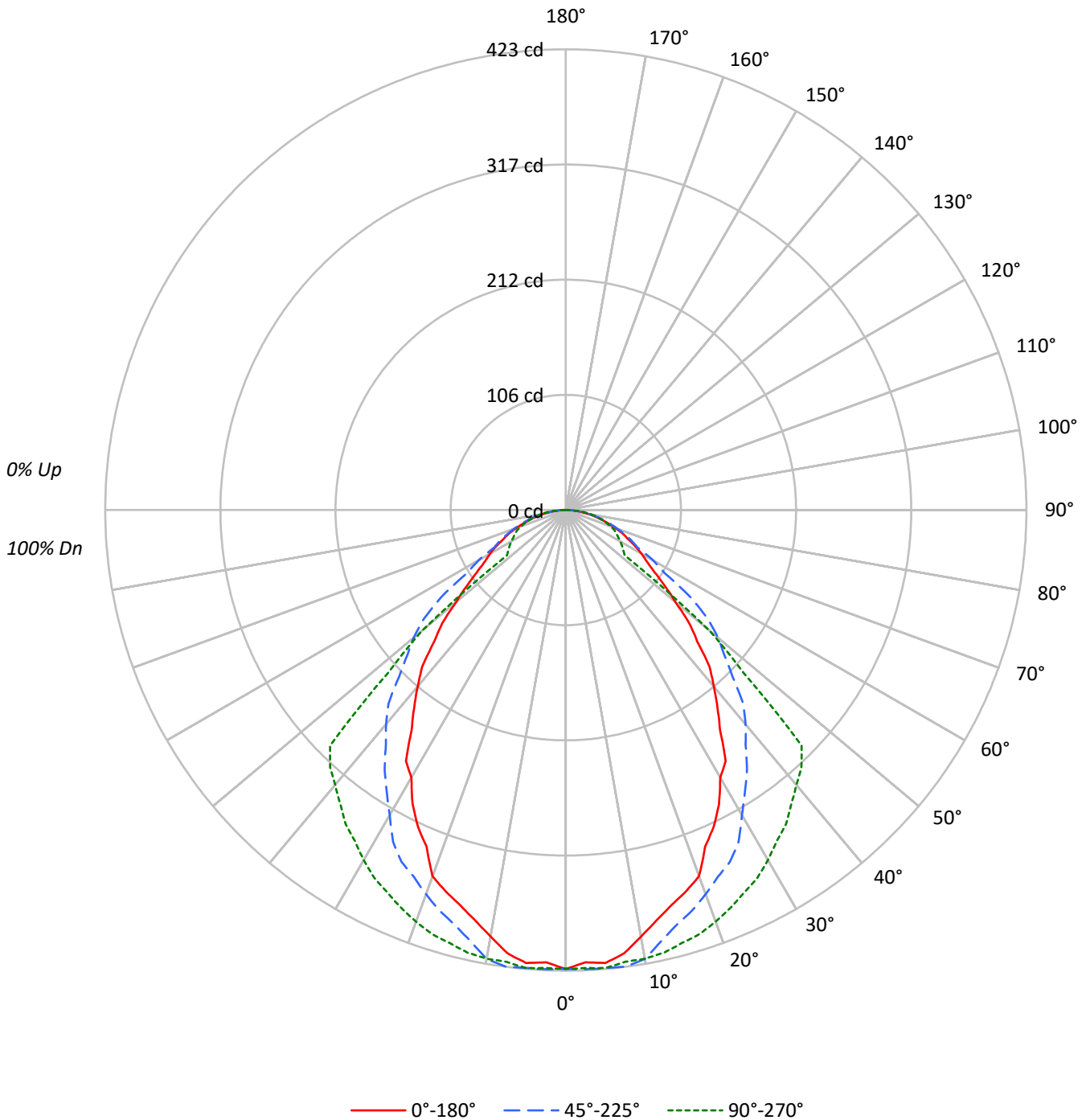
Test Method: LM-79-2019  
Report Number: P893034  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVR-UNV-CC83-LOW-5000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT, LOW lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 879.0 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.3 / 1.26  
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9915  
Total Harmonic Distortion (THDi): 6.67573310469889  
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	60	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	53	47	43	52	47	42	42	42	42	40
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	38	37
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6027	6027	6027
5°	5995	6061	6061
10°	5776	6081	6076
15°	5560	5837	6097
20°	5447	5715	6123
25°	5068	5629	6118
30°	4685	5342	6132
35°	4310	5066	6154
40°	3952	4796	6153
45°	3453	4382	6193
50°	2922	4062	3832
55°	2482	3494	1604
60°	2300	2649	1654
65°	2136	2254	1736
70°	2016	2129	1824
75°	1863	2012	1885
80°	1705	1862	1985
85°	1510	1691	2134

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6193 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.9	4.5
10°-20°	111.9	12.7
20°-30°	162.6	18.5
30°-40°	184.1	20.9
40°-50°	172.0	19.6
50°-60°	97.7	11.1
60°-70°	61.4	7.0
70°-80°	37.7	4.3
80°-90°	11.8	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°	314.4	35.8
0°-40°	498.4	56.7
0°-60°	768.1	87.4
0°-90°	879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	879.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	421	421	421	421	421	
5°	418	422	422	420	422	39
15°	375	382	394	416	412	106
25°	321	327	357	373	388	147
35°	247	263	290	328	352	156
45°	171	188	217	275	306	133
55°	100	109	140	74	64	91
65°	63	65	67	58	51	63
75°	34	35	36	37	34	36
85°	9	10	10	12	13	10
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	421.3	421.3	421.3	421.3	421.3
2.5°	415.6	420.2	422.1	421.7	420.9
5°	417.5	421.7	422.1	420.5	422.1
7.5°	410.6	420.5	422.8	419.0	418.3
10°	397.6	403.3	418.6	420.2	418.3
12.5°	385.7	392.6	405.2	420.2	416.3
15°	375.4	381.9	394.1	415.6	411.7
17.5°	367.0	369.3	385.7	410.6	408.3
20°	357.8	362.4	375.4	398.4	402.2
22.5°	334.4	347.1	364.7	387.6	395.3
25°	321.1	327.2	356.6	372.7	387.6
27.5°	304.6	315.7	343.6	361.2	380.8
30°	283.6	296.2	323.4	349.4	371.2
32.5°	273.2	277.8	306.1	339.8	360.5
35°	246.8	263.3	290.1	327.9	352.4
37.5°	228.8	238.8	271.3	316.5	340.2
40°	211.6	223.1	256.8	303.8	329.5
42.5°	195.2	205.5	241.1	291.2	320.3
45°	170.7	188.3	216.6	275.1	306.1
47.5°	153.8	164.9	197.5	255.6	221.9
50°	131.3	144.6	182.5	175.3	172.2
52.5°	114.8	122.1	164.5	148.1	68.1
55°	99.5	108.7	140.1	73.5	64.3
57.5°	88.0	94.1	107.5	68.1	61.2
60°	80.4	81.9	92.6	65.1	57.8
62.5°	71.9	73.5	73.9	61.6	54.3
65°	63.1	65.4	66.6	57.8	51.3
67.5°	56.6	57.0	58.5	53.6	48.2
70°	48.2	49.0	50.9	49.0	43.6
72.5°	40.9	42.1	43.2	43.6	39.0
75°	33.7	34.8	36.4	37.1	34.1
77.5°	27.6	27.9	29.5	31.4	29.1
80°	20.7	21.8	22.6	24.5	24.1
82.5°	14.9	15.3	16.5	18.0	18.8
85°	9.2	9.6	10.3	11.5	13.0
87.5°	3.8	4.2	4.6	5.4	6.1
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	13.96	15.43	14.32	15.75	16.06	11.70	13.18	12.07	13.50	13.81
	3H	15.54	16.87	15.92	17.20	17.56	14.04	15.36	14.42	15.69	16.05
	4H	16.15	17.39	16.55	17.73	18.11	14.98	16.22	15.38	16.57	16.95
	6H	16.61	17.75	17.02	18.12	18.51	15.77	16.92	16.19	17.29	17.68
	8H	16.76	17.85	17.19	18.24	18.64	16.08	17.17	16.51	17.56	17.96
	12H	16.86	17.90	17.29	18.28	18.71	16.33	17.37	16.76	17.75	18.18
4H	2H	14.53	15.77	14.93	16.12	16.50	12.86	14.10	13.26	14.45	14.83
	3H	16.35	17.37	16.76	17.78	18.18	15.30	16.33	15.71	16.73	17.13
	4H	17.08	18.01	17.52	18.42	18.86	16.35	17.27	16.78	17.69	18.13
	6H	17.67	18.48	18.13	18.92	19.38	17.24	18.05	17.70	18.49	18.95
	8H	17.87	18.62	18.34	19.07	19.54	17.59	18.34	18.05	18.78	19.25
	12H	18.01	18.69	18.50	19.16	19.64	17.88	18.55	18.36	19.03	19.50
8H	4H	17.39	18.14	17.85	18.58	19.05	16.75	17.50	17.21	17.95	18.41
	6H	18.11	18.73	18.61	19.22	19.70	17.79	18.42	18.29	18.91	19.39
	8H	18.38	18.94	18.90	19.45	19.94	18.23	18.79	18.75	19.30	19.79
	12H	18.60	19.10	19.11	19.59	20.16	18.62	19.12	19.13	19.61	20.17
12H	4H	17.42	18.09	17.91	18.57	19.05	16.79	17.46	17.27	17.94	18.41
	6H	18.18	18.74	18.69	19.25	19.74	17.86	18.42	18.38	18.93	19.42
	8H	18.51	19.01	19.02	19.50	20.06	18.37	18.87	18.88	19.36	19.92