

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: P893031

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

Issue Date: 11/11/2024

**Test Information**

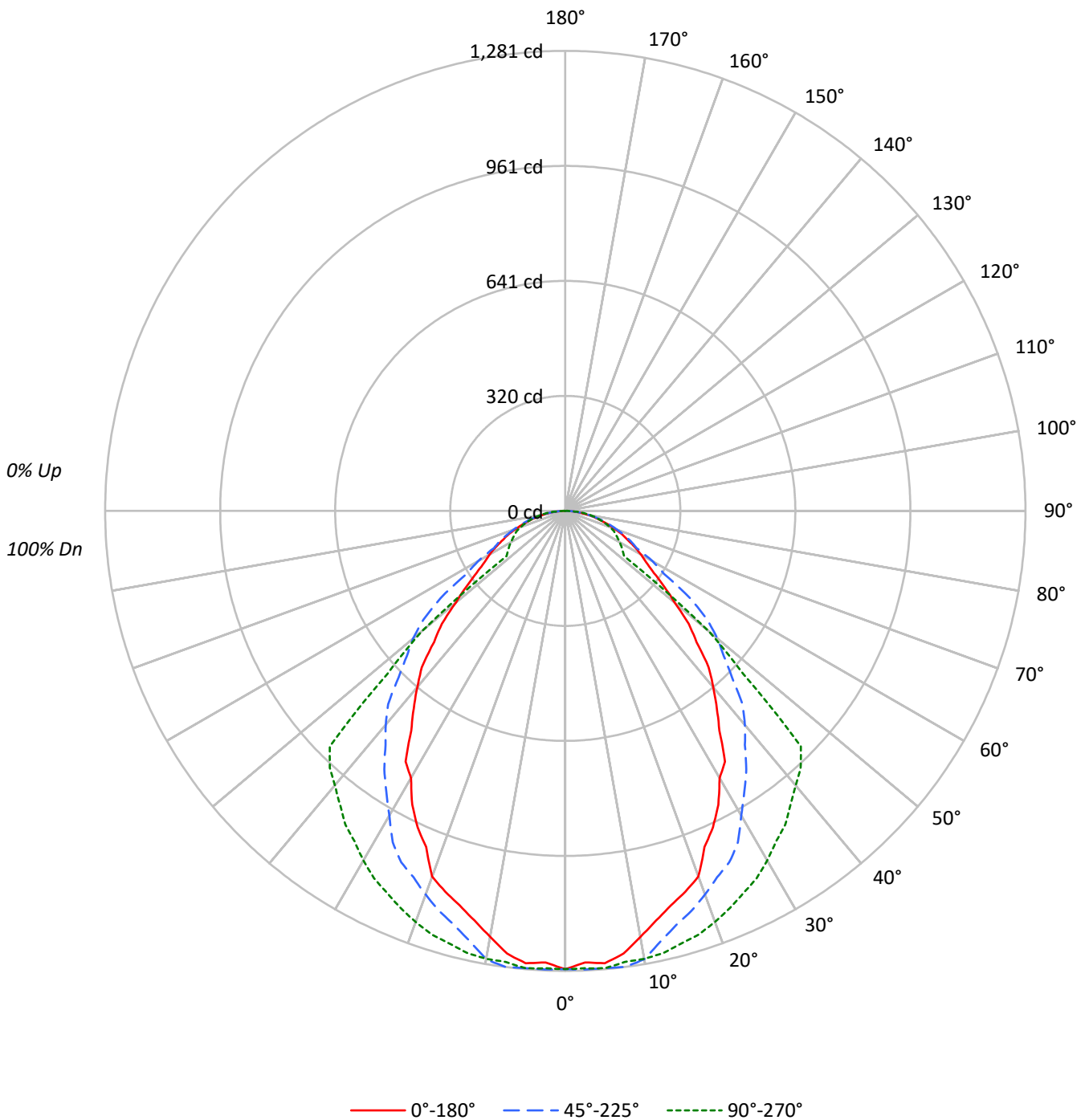
Test Method: LM-79-2019  
Report Number: P893031  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVR-UNV-CC83-HI-5000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2662.0 lumens  
Efficiency: N/A  
Efficacy: 126.8 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): 21  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.39961257980444  
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°	18252	18252	18252
5°	18156	18355	18355
10°	17491	18416	18400
15°	16838	17677	18468
20°	16496	17308	18542
25°	15347	17049	18529
30°	14184	16177	18569
35°	13054	15340	18639
40°	11968	14521	18633
45°	10457	13270	18756
50°	8847	12303	11606
55°	7515	10580	4856
60°	6964	8023	5007
65°	6472	6824	5257
70°	6107	6445	5525
75°	5638	6085	5699
80°	5157	5635	6014
85°	4563	5137	6467

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 18756 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.0	4.5
10°-20°	338.7	12.7
20°-30°	492.3	18.5
30°-40°	557.5	20.9
40°-50°	520.8	19.6
50°-60°	295.9	11.1
60°-70°	185.9	7.0
70°-80°	114.1	4.3
80°-90°	35.8	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°	952.1	35.8
0°-40°	1509.5	56.7
0°-60°	2326.2	87.4
0°-90°	2662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2662.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1276	1276	1276	1276	1276	
5°	1264	1277	1278	1274	1278	119
15°	1137	1157	1194	1258	1247	321
25°	972	991	1080	1129	1174	446
35°	748	797	878	993	1067	471
45°	517	570	656	833	927	403
55°	301	329	424	222	195	276
65°	191	198	202	175	155	192
75°	102	106	110	112	103	109
85°	28	29	31	35	39	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1275.9	1275.9	1275.9	1275.9	1275.9
2.5°	1258.5	1272.5	1278.2	1277.1	1274.8
5°	1264.3	1277.1	1278.2	1273.6	1278.2
7.5°	1243.5	1273.6	1280.6	1269.0	1266.7
10°	1204.1	1221.5	1267.8	1272.5	1266.7
12.5°	1168.2	1189.0	1227.3	1272.5	1260.9
15°	1136.9	1156.6	1193.6	1258.5	1247.0
17.5°	1111.4	1118.3	1168.2	1243.5	1236.5
20°	1083.6	1097.5	1136.9	1206.4	1218.0
22.5°	1012.9	1051.1	1104.4	1173.9	1197.1
25°	972.3	990.8	1080.1	1128.8	1173.9
27.5°	922.5	956.1	1040.7	1094.0	1153.1
30°	858.7	897.0	979.3	1058.1	1124.1
32.5°	827.4	841.3	927.1	1029.1	1091.7
35°	747.5	797.3	878.4	993.2	1067.3
37.5°	693.0	723.1	821.6	958.4	1030.2
40°	640.9	675.6	777.6	920.2	997.8
42.5°	591.0	622.3	730.1	881.9	970.0
45°	516.9	570.2	655.9	833.2	927.1
47.5°	465.9	499.5	598.0	774.1	672.2
50°	397.5	438.1	552.8	530.8	521.5
52.5°	347.7	369.7	498.3	448.5	206.3
55°	301.3	329.1	424.2	222.5	194.7
57.5°	266.5	285.1	325.6	206.3	185.4
60°	243.4	248.0	280.4	197.0	175.0
62.5°	217.9	222.5	223.7	186.6	164.6
65°	191.2	198.2	201.6	175.0	155.3
67.5°	171.5	172.7	177.3	162.2	146.0
70°	146.0	148.3	154.1	148.3	132.1
72.5°	124.0	127.5	131.0	132.1	118.2
75°	102.0	105.5	110.1	112.4	103.1
77.5°	83.4	84.6	89.2	95.0	88.1
80°	62.6	66.1	68.4	74.2	73.0
82.5°	45.2	46.4	49.8	54.5	56.8
85°	27.8	29.0	31.3	34.8	39.4
87.5°	11.6	12.7	13.9	16.2	18.5
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	17.81	19.29	18.17	19.60	19.92	15.55	17.03	15.92	17.35	17.66
	3H	19.40	20.72	19.77	21.05	21.41	17.89	19.21	18.27	19.54	19.90
	4H	20.00	21.24	20.40	21.59	21.97	18.83	20.07	19.23	20.42	20.80
	6H	20.46	21.60	20.87	21.97	22.36	19.62	20.77	20.04	21.13	21.53
	8H	20.61	21.70	21.04	22.09	22.49	19.93	21.02	20.36	21.41	21.81
	12H	20.71	21.75	21.14	22.13	22.56	20.18	21.22	20.61	21.60	22.03
4H	2H	18.38	19.62	18.78	19.97	20.35	16.71	17.95	17.11	18.30	18.68
	3H	20.20	21.23	20.61	21.63	22.03	19.15	20.17	19.56	20.58	20.98
	4H	20.93	21.86	21.37	22.27	22.71	20.20	21.12	20.63	21.54	21.98
	6H	21.53	22.33	21.98	22.77	23.23	21.09	21.89	21.55	22.34	22.80
	8H	21.72	22.47	22.19	22.92	23.39	21.44	22.19	21.90	22.63	23.10
	12H	21.87	22.54	22.35	23.02	23.49	21.72	22.39	22.21	22.87	23.35
8H	4H	21.24	21.99	21.70	22.43	22.90	20.60	21.35	21.06	21.79	22.26
	6H	21.96	22.58	22.46	23.08	23.55	21.64	22.26	22.14	22.76	23.23
	8H	22.23	22.79	22.75	23.31	23.79	22.08	22.64	22.60	23.15	23.64
	12H	22.45	22.95	22.96	23.44	24.01	22.47	22.96	22.98	23.46	24.02
12H	4H	21.27	21.95	21.76	22.42	22.90	20.64	21.31	21.12	21.79	22.26
	6H	22.03	22.59	22.54	23.10	23.59	21.71	22.27	22.23	22.78	23.27
	8H	22.36	22.86	22.87	23.35	23.92	22.22	22.71	22.73	23.21	23.77