

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: P895781

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

Issue Date: 11/19/2024

**Test Information**

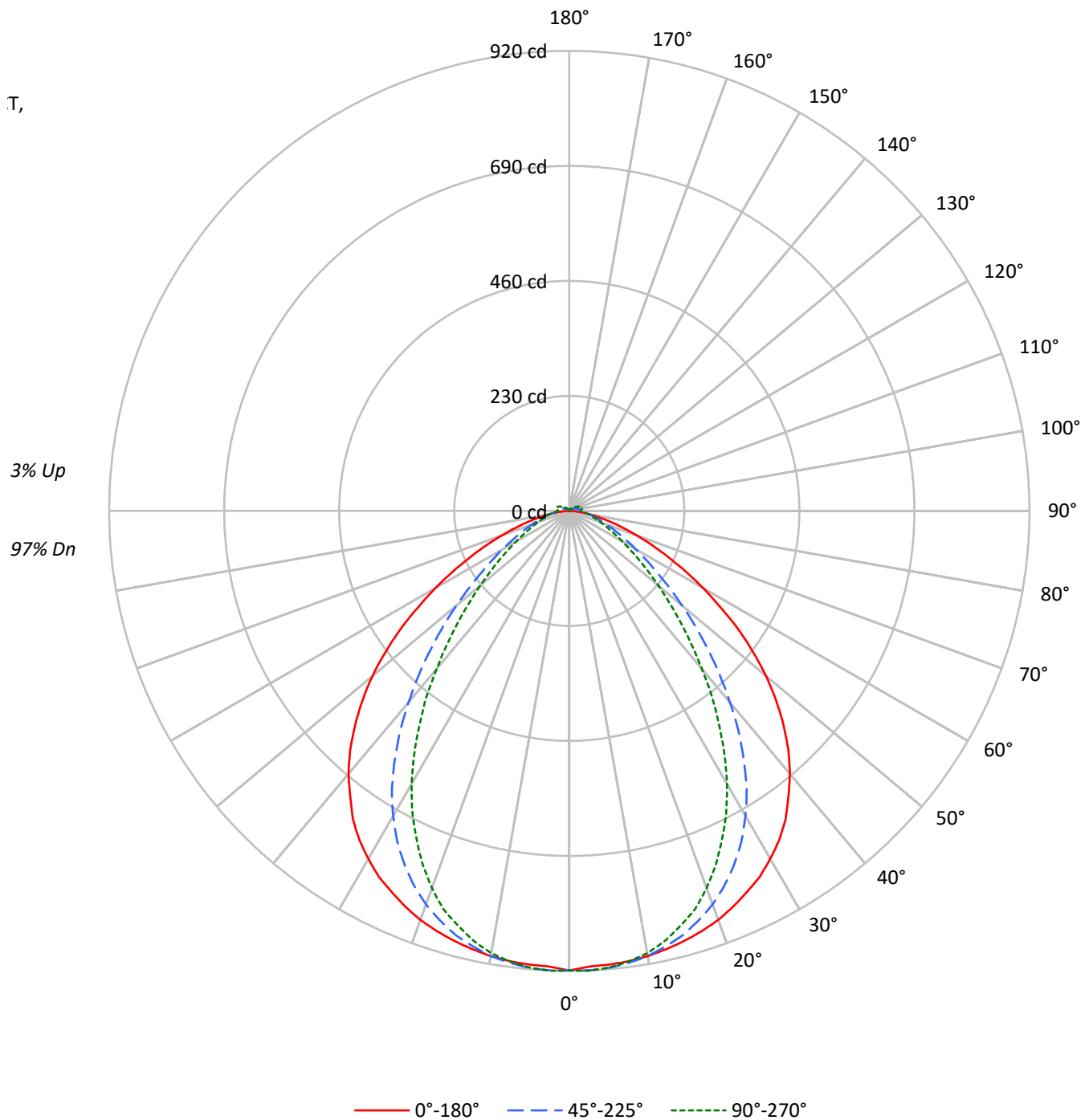
Test Method: LM-79-2019  
Report Number: P895781  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ACL-UNV-CC83-MID-5000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 5000K CC  
MID lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1915.0 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.07 / 1.17  
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.08')  
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	0
RCR																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	110	105	102	98	107	103	100	97	98	96	93	94	92	90	90	88	87	87	87	87	84
2	101	94	88	83	98	92	86	82	88	83	80	84	81	77	81	78	75	75	75	75	73
3	93	84	77	71	91	82	76	70	79	73	69	76	71	67	73	69	66	66	66	66	64
4	86	76	68	62	84	74	67	61	71	65	60	69	63	59	66	62	58	58	58	58	56
5	80	68	60	54	78	67	60	54	65	58	53	63	57	52	61	56	52	52	52	52	50
6	74	62	54	48	72	61	54	48	59	52	47	57	51	47	56	50	46	46	46	46	44
7	69	57	49	43	68	56	49	43	54	48	43	53	47	42	51	46	42	42	42	42	40
8	65	52	45	39	63	52	44	39	50	43	39	49	43	38	47	42	38	38	38	38	36
9	61	48	41	36	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	38	33	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

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

	0°	45°	90°
0°	18818	18818	18818
5°	18653	18447	18335
10°	18656	17996	17697
15°	18657	17437	16798
20°	18680	16721	15701
25°	18629	15775	14255
30°	18547	14541	12620
35°	18299	12929	10693
40°	17727	11027	8714
45°	16831	9077	6907
50°	15577	7213	5389
55°	13867	5608	4174
60°	11814	4379	3270
65°	9657	3478	2599
70°	7663	2818	2132
75°	5914	2293	1866
80°	4208	1934	1689
85°	2411	1686	1522

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16831 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.0	4.5
10°-20°	247.0	12.9
20°-30°	359.0	18.7
30°-40°	388.0	20.3
40°-50°	327.4	17.1
50°-60°	224.3	11.7
60°-70°	130.8	6.8
70°-80°	66.8	3.5
80°-90°	28.8	1.5
90°-100°	17.5	0.9
100°-110°	15.6	0.8
110°-120°	10.6	0.6
120°-130°	5.9	0.3
130°-140°	3.3	0.2
140°-150°	1.7	0.1
150°-160°	0.9	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
<b>0°-30°</b>	<b>693.0</b>	<b>36.2</b>
<b>0°-40°</b>	<b>1081.0</b>	<b>56.5</b>
<b>0°-60°</b>	<b>1632.7</b>	<b>85.3</b>
<b>0°-90°</b>	<b>1859.0</b>	<b>97.1</b>
90°-120°	43.7	2.3
90°-150°	54.6	2.9
<b>90°-180°</b>	<b>56.0</b>	<b>2.9</b>
<b>0°-180°</b>	<b>1915.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	911	916	917	919	916	87
15°	890	889	878	867	859	252
25°	841	824	780	742	723	388
35°	754	705	608	543	522	469
45°	606	512	392	332	313	466
55°	412	312	214	179	169	367
65°	217	160	110	94	90	218
75°	86	71	56	52	51	94
85°	15	21	28	30	30	19
90°	1	10	20	23	23	1
95°	0	9	20	23	24	0
105°	0	5	17	25	26	0
115°	0	3	11	18	21	0
125°	0	2	6	11	13	0
135°	1	2	4	6	8	0
145°	1	1	3	4	4	0
155°	1	1	2	2	3	0
165°	1	1	1	2	2	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	919.0	919.0	919.0	919.0	919.0
2.5°	912.1	917.8	919.7	922.2	920.3
5°	910.8	916.5	917.2	919.0	916.5
7.5°	908.3	912.7	911.5	911.5	908.9
10°	903.9	906.4	903.9	900.7	898.2
12.5°	897.6	899.5	891.9	887.5	881.1
15°	890.0	889.4	878.0	867.3	859.0
17.5°	881.1	876.7	859.0	842.6	835.7
20°	870.4	862.2	837.6	813.6	802.8
22.5°	856.5	845.1	811.0	780.1	765.6
25°	840.7	824.3	780.1	741.6	723.2
27.5°	824.9	800.3	745.3	697.3	679.7
30°	803.5	772.5	704.3	650.0	630.4
32.5°	780.7	741.6	660.1	596.9	577.3
35°	753.6	704.9	608.3	543.2	521.7
37.5°	719.4	662.0	555.8	487.6	469.3
40°	686.6	615.2	499.6	432.0	411.8
42.5°	648.1	564.7	445.3	379.6	361.3
45°	605.7	512.3	392.3	331.6	313.3
47.5°	560.9	462.4	341.7	285.5	271.0
50°	513.5	411.2	294.3	245.7	232.4
52.5°	463.0	360.0	250.8	210.3	198.3
55°	411.8	312.0	213.5	178.8	169.3
57.5°	358.1	265.9	181.9	152.2	143.4
60°	309.5	227.4	153.5	130.1	123.2
62.5°	261.5	192.0	130.8	110.5	104.9
65°	217.3	159.8	110.5	94.1	89.7
67.5°	178.8	133.9	94.7	80.9	77.7
70°	142.8	109.3	79.6	69.5	66.3
72.5°	112.4	88.4	67.0	60.0	58.1
75°	86.5	70.7	56.2	52.4	51.2
77.5°	63.2	54.3	47.4	45.5	44.8
80°	44.2	41.1	39.8	39.8	39.8
82.5°	27.8	30.3	33.5	34.7	34.7
85°	15.2	20.8	27.8	29.7	29.7
87.5°	6.3	14.5	23.4	25.3	24.6
90°	0.6	9.5	20.2	22.7	22.7
92.5°	0.0	9.5	20.2	22.7	22.7
95°	0.0	8.8	19.6	23.4	24.0
97.5°	0.0	8.2	19.6	24.0	24.6
100°	0.6	7.6	19.6	24.6	25.3
102.5°	0.0	6.3	18.3	24.6	25.9
105°	0.0	5.1	17.1	24.6	25.9
107.5°	0.0	3.8	15.8	23.4	25.3
110°	0.0	3.8	14.5	22.1	24.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.2	12.6	20.2	22.7
115°	0.0	3.2	10.7	18.3	20.8
117.5°	0.0	2.5	9.5	16.4	18.3
120°	0.0	2.5	8.2	14.5	16.4
122.5°	0.0	2.5	7.6	12.6	14.5
125°	0.0	1.9	6.3	10.7	12.6
127.5°	0.6	1.9	5.7	9.5	11.4
130°	0.6	1.9	5.1	8.2	10.1
132.5°	0.6	1.9	4.4	7.6	8.8
135°	0.6	1.9	4.4	6.3	7.6
137.5°	0.6	1.9	3.8	5.7	6.3
140°	0.6	1.9	3.2	5.1	5.7
142.5°	0.6	1.3	3.2	4.4	5.1
145°	0.6	1.3	3.2	3.8	4.4
147.5°	0.6	1.3	2.5	3.8	3.8
150°	0.6	1.3	2.5	3.2	3.8
152.5°	0.6	1.3	1.9	3.2	3.2
155°	0.6	1.3	1.9	2.5	3.2
157.5°	0.6	1.3	1.9	2.5	2.5
160°	0.6	1.3	1.3	1.9	2.5
162.5°	0.6	0.6	1.3	1.9	1.9
165°	0.6	0.6	1.3	1.9	1.9
167.5°	0.6	0.6	1.3	1.3	1.9
170°	0.6	0.6	1.3	1.3	1.3
172.5°	0.6	0.6	1.3	1.3	0.6
175°	0.6	0.6	1.3	1.3	0.6
177.5°	0.6	0.6	1.3	0.6	0.6
180°	0.6	0.6	0.6	0.6	0.6



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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	18.73	20.13	19.14	20.51	20.89	15.05	16.45	15.47	16.83	17.22
	3H	19.80	21.05	20.22	21.44	21.87	16.23	17.49	16.66	17.88	18.31
	4H	20.09	21.26	20.54	21.67	22.12	16.76	17.93	17.21	18.34	18.79
	6H	20.22	21.30	20.69	21.73	22.20	17.30	18.38	17.76	18.81	19.27
	8H	20.23	21.26	20.71	21.71	22.19	17.57	18.60	18.05	19.05	19.52
	12H	20.22	21.21	20.70	21.65	22.15	17.87	18.85	18.35	19.29	19.79
4H	2H	18.76	19.93	19.21	20.34	20.79	15.51	16.68	15.96	17.09	17.54
	3H	19.98	20.95	20.45	21.41	21.89	16.87	17.84	17.34	18.30	18.78
	4H	20.36	21.24	20.84	21.71	22.22	17.50	18.38	17.99	18.85	19.36
	6H	20.58	21.34	21.09	21.84	22.37	18.18	18.93	18.68	19.43	19.96
	8H	20.61	21.32	21.13	21.82	22.36	18.52	19.23	19.03	19.73	20.27
	12H	20.62	21.25	21.15	21.79	22.33	18.90	19.53	19.43	20.06	20.60
8H	4H	20.38	21.09	20.89	21.59	22.13	17.72	18.43	18.24	18.93	19.47
	6H	20.66	21.24	21.20	21.79	22.33	18.51	19.09	19.05	19.64	20.19
	8H	20.72	21.25	21.29	21.81	22.37	18.94	19.47	19.51	20.03	20.59
	12H	20.76	21.23	21.32	21.77	22.40	19.45	19.92	20.01	20.46	21.09
12H	4H	20.37	21.00	20.90	21.53	22.07	17.73	18.36	18.26	18.90	19.44
	6H	20.65	21.18	21.21	21.74	22.30	18.54	19.07	19.10	19.63	20.19
	8H	20.76	21.22	21.31	21.77	22.40	19.03	19.50	19.59	20.05	20.68