

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: P895777

Luminaire Tested: 2MB-SC3-ACL-UNV-CC83-LOW-4000K

Issue Date: 11/19/2024

**Test Information**

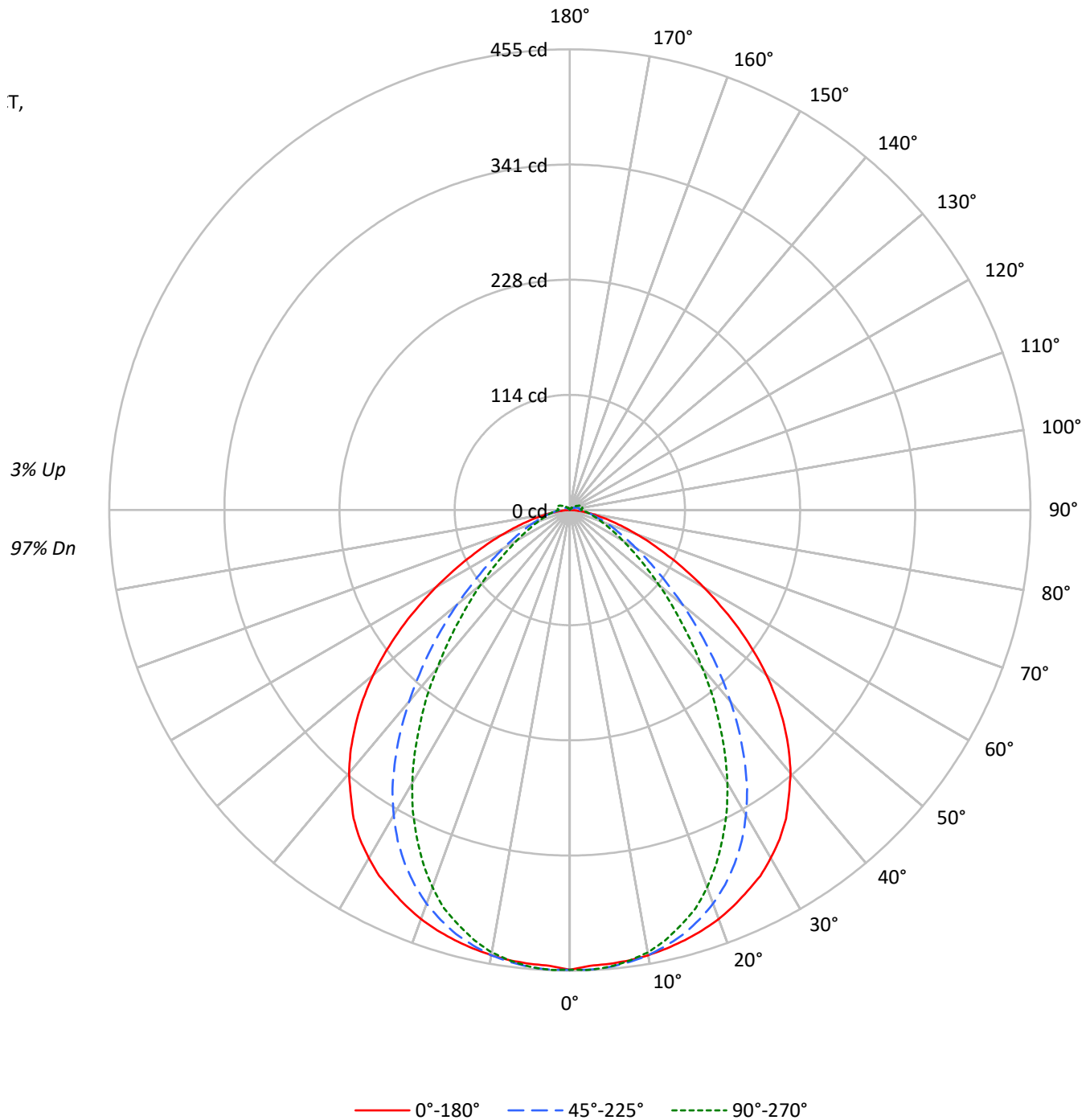
Test Method: LM-79-2019  
Report Number: P895777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ACL-UNV-CC83-LOW-4000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 4000K CC  
LOW lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 946.0 lumens  
Efficiency: N/A  
Efficacy: 137.1 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): 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				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°	9296	9296	9296
5°	9214	9113	9059
10°	9215	8890	8742
15°	9217	8613	8299
20°	9229	8261	7757
25°	9202	7793	7043
30°	9162	7183	6234
35°	9040	6387	5282
40°	8758	5447	4304
45°	8314	4484	3413
50°	7696	3564	2662
55°	6850	2771	2061
60°	5836	2162	1614
65°	4768	1719	1283
70°	3783	1391	1055
75°	2920	1134	922
80°	2075	957	836
85°	1190	831	753

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8314 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.0	4.5
10°-20°	122.0	12.9
20°-30°	177.3	18.7
30°-40°	191.7	20.3
40°-50°	161.7	17.1
50°-60°	110.8	11.7
60°-70°	64.6	6.8
70°-80°	33.0	3.5
80°-90°	14.2	1.5
90°-100°	8.6	0.9
100°-110°	7.7	0.8
110°-120°	5.2	0.6
120°-130°	2.9	0.3
130°-140°	1.6	0.2
140°-150°	0.8	0.1
150°-160°	0.4	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	342.3	36.2
0°-40°	534.0	56.5
0°-60°	806.6	85.3
0°-90°	918.4	97.1
90°-120°	21.6	2.3
90°-150°	27.0	2.9
90°-180°	28.0	3.0
0°-180°	946.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	450	453	453	454	453	43
15°	440	439	434	428	424	124
25°	415	407	385	366	357	192
35°	372	348	300	268	258	232
45°	299	253	194	164	155	230
55°	203	154	106	88	84	181
65°	107	79	55	46	44	108
75°	43	35	28	26	25	46
85°	8	10	14	15	15	9
90°	0	5	10	11	11	1
95°	0	4	10	12	12	0
105°	0	2	8	12	13	0
115°	0	2	5	9	10	0
125°	0	1	3	5	6	0
135°	0	1	2	3	4	0
145°	0	1	2	2	2	0
155°	0	1	1	1	2	0
165°	0	0	1	1	1	0
175°	0	0	1	1	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	454.0	454.0	454.0	454.0	454.0
2.5°	450.6	453.4	454.3	455.6	454.6
5°	449.9	452.8	453.1	454.0	452.8
7.5°	448.7	450.9	450.3	450.3	449.0
10°	446.5	447.8	446.5	445.0	443.7
12.5°	443.4	444.3	440.6	438.4	435.3
15°	439.7	439.3	433.7	428.4	424.4
17.5°	435.3	433.1	424.4	416.2	412.8
20°	430.0	425.9	413.8	401.9	396.6
22.5°	423.1	417.5	400.6	385.4	378.2
25°	415.3	407.2	385.4	366.3	357.3
27.5°	407.5	395.3	368.2	344.5	335.7
30°	396.9	381.6	347.9	321.1	311.4
32.5°	385.7	366.3	326.1	294.9	285.2
35°	372.3	348.2	300.5	268.3	257.7
37.5°	355.4	327.0	274.6	240.9	231.8
40°	339.2	303.9	246.8	213.4	203.4
42.5°	320.1	279.0	220.0	187.5	178.5
45°	299.2	253.1	193.8	163.8	154.8
47.5°	277.1	228.4	168.8	141.0	133.9
50°	253.7	203.1	145.4	121.4	114.8
52.5°	228.7	177.9	123.9	103.9	98.0
55°	203.4	154.1	105.5	88.3	83.6
57.5°	176.9	131.4	89.9	75.2	70.8
60°	152.9	112.3	75.8	64.3	60.8
62.5°	129.2	94.9	64.6	54.6	51.8
65°	107.3	78.9	54.6	46.5	44.3
67.5°	88.3	66.2	46.8	39.9	38.4
70°	70.5	54.0	39.3	34.3	32.8
72.5°	55.5	43.7	33.1	29.6	28.7
75°	42.7	34.9	27.8	25.9	25.3
77.5°	31.2	26.8	23.4	22.5	22.2
80°	21.8	20.3	19.7	19.7	19.7
82.5°	13.7	15.0	16.5	17.2	17.2
85°	7.5	10.3	13.7	14.7	14.7
87.5°	3.1	7.2	11.5	12.5	12.2
90°	0.3	4.7	10.0	11.2	11.2
92.5°	0.0	4.7	10.0	11.2	11.2
95°	0.0	4.4	9.7	11.5	11.9
97.5°	0.0	4.1	9.7	11.9	12.2
100°	0.3	3.7	9.7	12.2	12.5
102.5°	0.0	3.1	9.0	12.2	12.8
105°	0.0	2.5	8.4	12.2	12.8
107.5°	0.0	1.9	7.8	11.5	12.5
110°	0.0	1.9	7.2	10.9	11.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.6	6.2	10.0	11.2
115°	0.0	1.6	5.3	9.0	10.3
117.5°	0.0	1.2	4.7	8.1	9.0
120°	0.0	1.2	4.1	7.2	8.1
122.5°	0.0	1.2	3.7	6.2	7.2
125°	0.0	0.9	3.1	5.3	6.2
127.5°	0.3	0.9	2.8	4.7	5.6
130°	0.3	0.9	2.5	4.1	5.0
132.5°	0.3	0.9	2.2	3.7	4.4
135°	0.3	0.9	2.2	3.1	3.7
137.5°	0.3	0.9	1.9	2.8	3.1
140°	0.3	0.9	1.6	2.5	2.8
142.5°	0.3	0.6	1.6	2.2	2.5
145°	0.3	0.6	1.6	1.9	2.2
147.5°	0.3	0.6	1.2	1.9	1.9
150°	0.3	0.6	1.2	1.6	1.9
152.5°	0.3	0.6	0.9	1.6	1.6
155°	0.3	0.6	0.9	1.2	1.6
157.5°	0.3	0.6	0.9	1.2	1.2
160°	0.3	0.6	0.6	0.9	1.2
162.5°	0.3	0.3	0.6	0.9	0.9
165°	0.3	0.3	0.6	0.9	0.9
167.5°	0.3	0.3	0.6	0.6	0.9
170°	0.3	0.3	0.6	0.6	0.6
172.5°	0.3	0.3	0.6	0.6	0.3
175°	0.3	0.3	0.6	0.6	0.3
177.5°	0.3	0.3	0.6	0.3	0.3
180°	0.3	0.3	0.3	0.3	0.3



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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	16.28	17.68	16.69	18.06	18.45	12.60	14.00	13.02	14.38	14.77
	3H	17.35	18.60	17.78	18.99	19.43	13.78	15.04	14.21	15.43	15.86
	4H	17.64	18.81	18.09	19.22	19.67	14.31	15.48	14.76	15.89	16.34
	6H	17.77	18.85	18.24	19.28	19.75	14.85	15.93	15.31	16.36	16.82
	8H	17.78	18.81	18.26	19.26	19.74	15.13	16.16	15.60	16.60	17.08
	12H	17.77	18.76	18.25	19.20	19.70	15.42	16.41	15.90	16.85	17.35
4H	2H	16.31	17.48	16.76	17.89	18.35	13.06	14.23	13.51	14.64	15.09
	3H	17.54	18.51	18.00	18.97	19.44	14.42	15.39	14.88	15.85	16.33
	4H	17.91	18.79	18.40	19.26	19.77	15.05	15.93	15.54	16.40	16.91
	6H	18.13	18.89	18.64	19.39	19.92	15.73	16.49	16.24	16.99	17.52
	8H	18.16	18.87	18.68	19.37	19.91	16.07	16.78	16.59	17.28	17.82
	12H	18.17	18.80	18.70	19.33	19.88	16.45	17.09	16.99	17.62	18.16
8H	4H	17.93	18.64	18.45	19.14	19.68	15.27	15.98	15.79	16.48	17.02
	6H	18.21	18.79	18.75	19.34	19.88	16.06	16.65	16.61	17.19	17.74
	8H	18.27	18.80	18.84	19.36	19.92	16.50	17.03	17.06	17.59	18.15
	12H	18.31	18.78	18.87	19.32	19.95	17.00	17.47	17.56	18.02	18.65
12H	4H	17.92	18.55	18.45	19.08	19.62	15.28	15.91	15.81	16.45	16.99
	6H	18.20	18.73	18.76	19.29	19.85	16.09	16.62	16.65	17.18	17.74
	8H	18.31	18.77	18.86	19.32	19.95	16.59	17.06	17.15	17.60	18.23