

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: P892889

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

Issue Date: 11/11/2024

**Test Information**

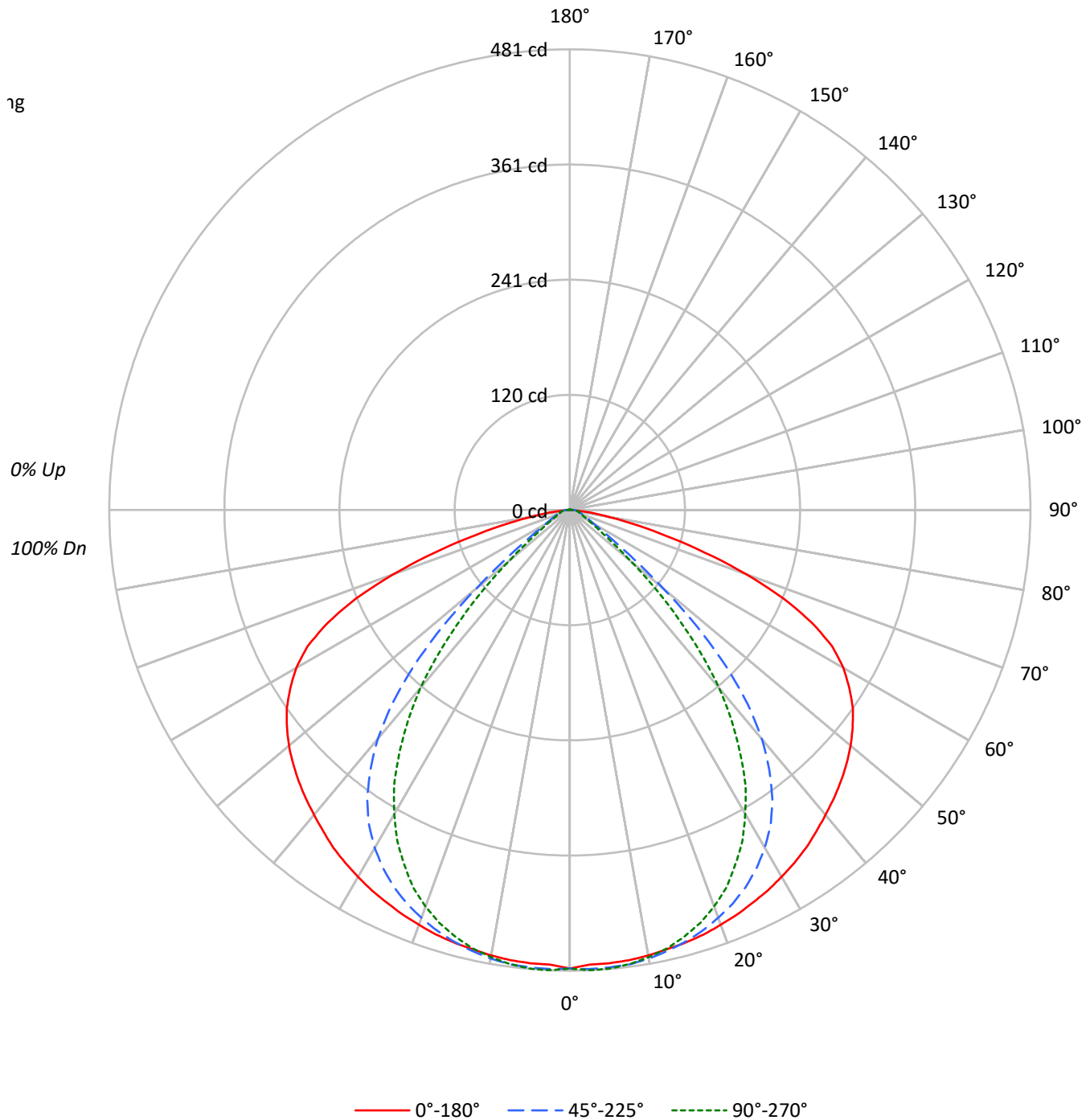
Test Method: LM-79-2019  
Report Number: P892889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-A-UNV-CC83-LOW-4000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 4000K CCT, LOW lumen settir  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1004.0 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Spacing Criteria (0/90/45): 1.39 / 1.15 / 1.25  
Luminous Opening: Rectangular (W 0.27' 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	111	107	103	100	108	105	101	99	100	98	95	97	94	93	93	91	90	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	84	81	79	77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	76	73	69	76	73	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	70	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	59	55	63	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	46	40	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	33	43	37	33	43	37	33	32

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

	0°	45°	90°
0°	9802	9802	9802
5°	9763	9852	9879
10°	9818	9889	9856
15°	9910	9891	9777
20°	10043	9873	9601
25°	10217	9815	9236
30°	10455	9630	8663
35°	10759	9221	7762
40°	11104	8342	6490
45°	11595	6686	4628
50°	12198	4065	2654
55°	12880	1960	1424
60°	13510	1200	971
65°	13533	969	799
70°	11716	880	748
75°	8244	886	815
80°	4858	1073	1026
85°	2279	1621	1551

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 62.5°  
 Luminance: 13703 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.6	4.5
10°-20°	131.6	13.1
20°-30°	199.2	19.8
30°-40°	230.1	22.9
40°-50°	196.7	19.6
50°-60°	107.5	10.7
60°-70°	54.3	5.4
70°-80°	26.4	2.6
80°-90°	9.1	0.9
90°-100°	2.2	0.2
100°-110°	0.3	0.0
110°-120°	0.1	0.0
120°-130°	0.1	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	376.5	37.5
0°-40°	606.5	60.4
0°-60°	910.7	90.7
0°-90°	1000.4	99.7
90°-120°	2.7	0.3
90°-150°	3.2	0.3
90°-180°	4.0	0.4
0°-180°	1004.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	479	479	479	479	479	
5°	475	479	479	481	481	45
15°	468	470	467	464	461	132
25°	452	450	434	418	409	209
35°	430	416	369	326	310	270
45°	400	350	231	172	160	309
55°	361	166	55	43	40	322
65°	279	31	20	18	16	270
75°	104	17	11	11	10	115
85°	10	10	7	7	7	15
90°	0	6	4	4	4	0
95°	0	1	2	3	2	0
105°	0	0	0	1	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	1	0	0
165°	0	0	1	1	1	0
175°	0	0	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°	478.7	478.7	478.7	478.7	478.7
2.5°	475.0	478.4	479.7	481.8	480.9
5°	475.0	478.7	479.3	481.2	480.6
7.5°	474.0	477.5	478.4	479.3	478.1
10°	472.2	475.6	475.6	475.6	474.0
12.5°	469.7	473.4	471.5	470.3	468.7
15°	467.5	470.3	466.6	464.4	461.2
17.5°	464.7	466.9	460.6	456.3	452.2
20°	460.9	461.9	453.1	445.0	440.6
22.5°	456.9	455.9	444.7	432.8	426.9
25°	452.2	449.7	434.4	417.6	408.8
27.5°	447.8	442.5	421.9	399.1	390.1
30°	442.2	435.0	407.3	378.5	366.4
32.5°	436.6	426.0	390.1	355.1	341.7
35°	430.4	415.7	368.9	325.8	310.5
37.5°	422.9	402.9	342.3	294.0	277.7
40°	415.4	387.9	312.1	257.1	242.8
42.5°	408.2	371.1	274.9	216.0	201.9
45°	400.4	349.5	230.9	171.6	159.8
47.5°	392.0	319.9	180.1	130.1	120.1
50°	382.9	281.5	127.6	91.1	83.3
52.5°	372.3	228.4	84.3	61.5	56.5
55°	360.8	165.7	54.9	42.8	39.9
57.5°	346.1	108.0	38.7	31.8	29.6
60°	329.9	64.6	29.3	25.3	23.7
62.5°	309.0	41.8	23.7	21.2	19.3
65°	279.3	30.9	20.0	17.8	16.5
67.5°	241.9	25.6	16.9	15.3	14.0
70°	195.7	22.5	14.7	13.4	12.5
72.5°	147.9	19.7	12.8	11.9	11.2
75°	104.2	17.2	11.2	10.9	10.3
77.5°	68.3	15.0	10.3	10.0	9.7
80°	41.2	12.8	9.1	9.1	8.7
82.5°	23.1	11.2	8.1	8.1	7.5
85°	9.7	9.7	6.9	6.9	6.6
87.5°	2.8	7.5	5.6	5.6	5.0
90°	0.0	5.6	4.4	4.4	4.1
92.5°	0.0	3.1	3.1	3.4	3.1
95°	0.0	0.6	1.9	2.8	2.5
97.5°	0.0	0.3	1.2	2.2	1.9
100°	0.0	0.0	0.6	1.6	1.2
102.5°	0.0	0.0	0.3	0.9	0.9
105°	0.0	0.0	0.3	0.6	0.3
107.5°	0.0	0.0	0.3	0.3	0.3
110°	0.0	0.0	0.3	0.3	0.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.3	0.3	0.3
115°	0.0	0.0	0.0	0.3	0.3
117.5°	0.0	0.0	0.0	0.3	0.0
120°	0.0	0.0	0.0	0.3	0.0
122.5°	0.0	0.0	0.0	0.3	0.0
125°	0.0	0.0	0.3	0.3	0.0
127.5°	0.0	0.0	0.3	0.3	0.3
130°	0.0	0.0	0.3	0.3	0.3
132.5°	0.3	0.0	0.3	0.3	0.3
135°	0.3	0.3	0.3	0.3	0.3
137.5°	0.3	0.3	0.3	0.3	0.3
140°	0.3	0.3	0.3	0.3	0.3
142.5°	0.3	0.3	0.3	0.3	0.3
145°	0.3	0.3	0.3	0.3	0.3
147.5°	0.3	0.3	0.3	0.3	0.3
150°	0.3	0.3	0.3	0.3	0.3
152.5°	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.3	0.3	0.6	0.3
157.5°	0.3	0.3	0.3	0.6	0.3
160°	0.3	0.3	0.3	0.6	0.3
162.5°	0.3	0.3	0.6	0.6	0.6
165°	0.3	0.3	0.6	0.6	0.6
167.5°	0.3	0.3	0.6	0.6	0.6
170°	0.3	0.3	0.6	0.6	0.6
172.5°	0.3	0.3	0.6	0.6	0.6
175°	0.3	0.3	0.6	0.6	0.6
177.5°	0.3	0.3	0.6	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	18.10	19.51	18.47	19.84	20.16	7.21	8.63	7.58	8.95	9.27
	3H	20.88	22.14	21.27	22.48	22.85	8.22	9.48	8.60	9.81	10.18
	4H	21.71	22.89	22.12	23.24	23.63	8.77	9.95	9.18	10.31	10.70
	6H	22.11	23.19	22.53	23.56	23.97	9.48	10.56	9.90	10.93	11.33
	8H	22.18	23.21	22.62	23.60	24.02	9.85	10.88	10.28	11.27	11.69
	12H	22.20	23.18	22.64	23.57	24.01	10.27	11.25	10.71	11.64	12.08
4H	2H	17.92	19.10	18.33	19.45	19.84	7.65	8.82	8.06	9.18	9.57
	3H	20.71	21.68	21.13	22.09	22.50	8.93	9.89	9.34	10.30	10.71
	4H	21.55	22.41	21.99	22.84	23.28	9.66	10.52	10.10	10.95	11.40
	6H	22.02	22.77	22.49	23.22	23.69	10.58	11.32	11.04	11.77	12.25
	8H	22.13	22.83	22.60	23.28	23.76	11.06	11.76	11.53	12.21	12.69
	12H	22.18	22.80	22.67	23.29	23.77	11.61	12.23	12.10	12.72	13.20
8H	4H	21.44	22.14	21.91	22.59	23.07	10.10	10.80	10.57	11.25	11.73
	6H	21.91	22.49	22.42	22.99	23.48	11.22	11.80	11.73	12.30	12.79
	8H	22.05	22.56	22.57	23.08	23.58	11.86	12.38	12.39	12.90	13.40
	12H	22.14	22.60	22.66	23.10	23.68	12.61	13.07	13.13	13.57	14.15
12H	4H	21.40	22.02	21.89	22.51	22.99	10.27	10.89	10.76	11.37	11.86
	6H	21.86	22.38	22.39	22.90	23.40	11.44	11.95	11.96	12.47	12.97
	8H	22.02	22.48	22.54	22.98	23.56	12.17	12.63	12.69	13.13	13.71