

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: P892942

Luminaire Tested: 2MB-SC3-ASMF-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

**Test Information**

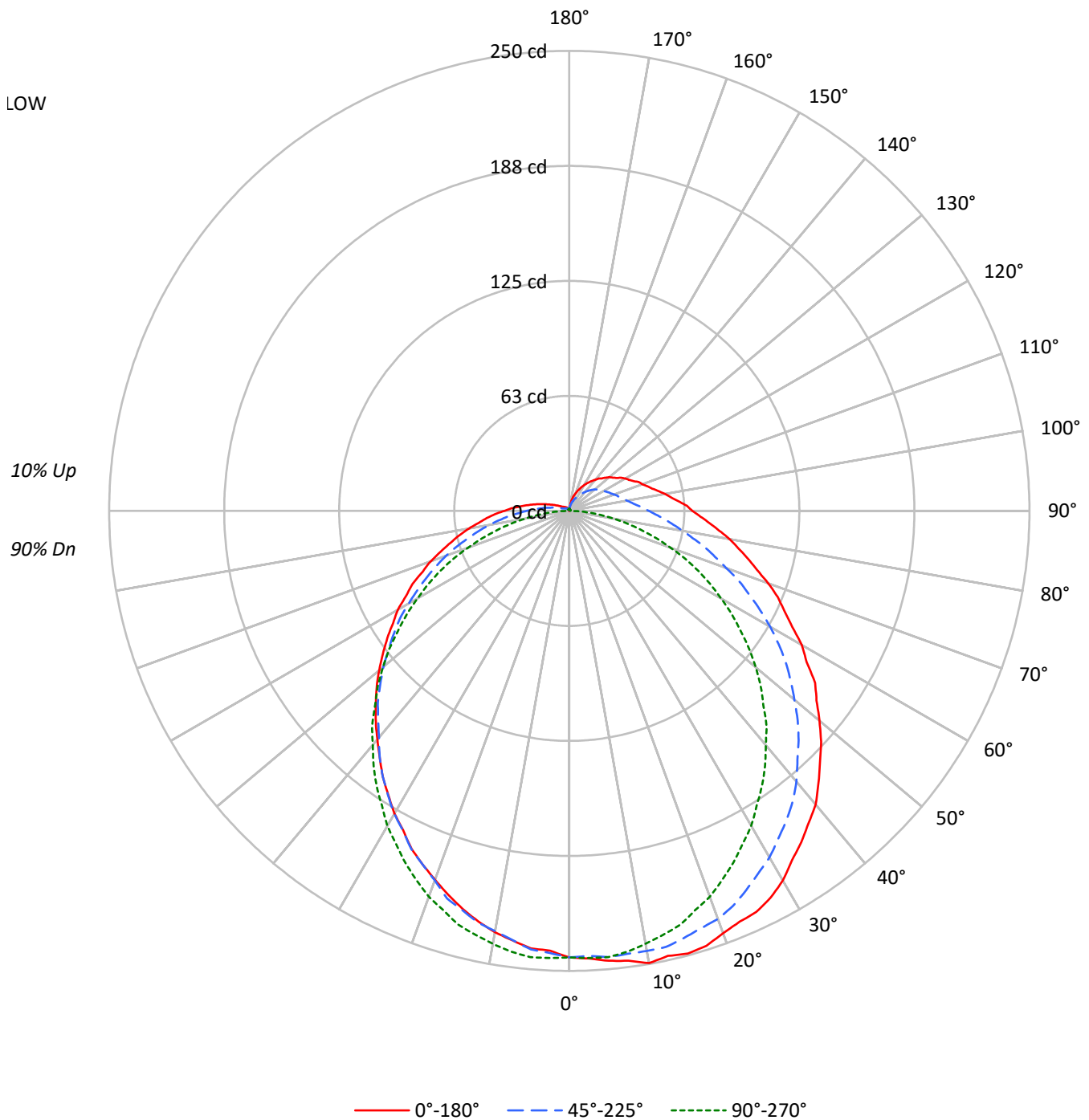
Test Method: LM-79-2019  
Report Number: P892942  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-185-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ASMF-UNV-CC83-LOW-3500K  
Description: Selectable 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 3500K CCT, 1 lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 834.0 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.12')  
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	90
1	105	99	95	90	101	96	92	88	90	87	83	85	82	79	79	77	75	75	75	75	72
2	95	86	79	72	91	83	76	71	78	72	68	73	69	65	69	65	62	62	62	62	59
3	86	75	66	60	83	73	65	58	68	62	56	64	59	54	60	56	52	52	52	52	49
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	44	44	44	44	42
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	48	43	38	38	38	38	36
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	34	34	34	34	31
7	62	48	39	33	59	47	38	32	44	37	32	42	36	31	40	34	30	30	30	30	28
8	57	44	35	29	55	43	35	29	41	33	28	39	32	27	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	24	24	24	22
10	50	37	29	24	49	36	29	23	34	28	23	33	27	22	31	26	22	22	22	22	20

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

	0°	45°	90°	135°	180°
0°	4968	4968	4968	4968	4968
5°	5016	4843	4805	4760	4877
10°	5131	4733	4587	4521	4781
15°	5191	4626	4384	4324	4667
20°	5202	4521	4152	4092	4543
25°	5278	4369	3907	3898	4449
30°	5292	4223	3676	3691	4332
35°	5262	4063	3431	3490	4225
40°	5288	3898	3181	3264	4117
45°	5246	3704	2936	3093	4048
50°	5256	3507	2698	2896	3994
55°	5338	3333	2425	2700	3952
60°	5382	3120	2148	2494	3972
65°	5505	2889	1867	2287	4015
70°	5867	2669	1530	2090	4091
75°	6434	2506	1171	1859	4270
80°	7675	2347	784	1656	4810
85°	10438	2295	394	1446	6140

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 90°  
 Luminance: 21655 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.0	2.8
10°-20°	66.0	7.9
20°-30°	99.5	11.9
30°-40°	119.4	14.3
40°-50°	124.3	14.9
50°-60°	115.2	13.8
60°-70°	94.9	11.4
70°-80°	68.5	8.2
80°-90°	43.5	5.2
90°-100°	26.8	3.2
100°-110°	17.9	2.1
110°-120°	12.7	1.5
120°-130°	9.3	1.1
130°-140°	6.4	0.8
140°-150°	3.9	0.5
150°-160°	1.9	0.2
160°-170°	0.7	0.1
170°-180°	0.1	0.0
<b>0°-30°</b>	<b>188.5</b>	<b>22.6</b>
<b>0°-40°</b>	<b>307.8</b>	<b>36.9</b>
<b>0°-60°</b>	<b>547.4</b>	<b>65.6</b>
<b>0°-90°</b>	<b>754.2</b>	<b>90.4</b>
<b>90°-120°</b>	<b>57.4</b>	<b>6.9</b>
<b>90°-150°</b>	<b>77.0</b>	<b>9.2</b>
<b>90°-180°</b>	<b>80.0</b>	<b>9.6</b>
<b>0°-180°</b>	<b>834.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	243	243	243	243	243	
5°	245	243	243	239	239	24
15°	249	240	233	225	224	70
25°	240	227	211	203	203	111
35°	220	206	182	176	176	138
45°	193	176	149	147	149	149
55°	163	144	114	116	121	145
65°	129	108	77	85	94	129
75°	100	76	41	57	67	107
85°	76	52	11	33	45	65
90°	67	43	1	23	35	37
95°	60	36	1	16	27	47
105°	47	29	1	6	14	50
115°	38	24	1	3	7	38
125°	31	20	1	2	4	28
135°	25	16	1	2	3	20
145°	19	11	1	1	2	12
155°	13	7	1	1	1	6
165°	8	4	1	1	1	2
175°	1	2	1	0	0	0
180°	1	1	1	1	1	



TEST NUMBER: P892942

CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC83-LOW-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6
2.5°	243.5	244.3	242.0	243.4	243.2	243.4	240.5	242.9	239.2
5°	245.4	245.7	243.4	244.3	243.4	241.4	239.2	238.3	238.6
7.5°	246.6	248.5	242.8	243.1	241.6	239.4	235.3	236.0	235.5
10°	249.5	247.3	242.8	241.7	238.9	236.6	231.9	232.3	232.5
12.5°	247.7	247.2	242.7	238.7	235.9	234.0	229.1	227.9	228.5
15°	249.0	246.9	240.3	237.1	232.9	229.5	224.6	223.8	223.9
17.5°	247.8	246.1	237.8	233.5	227.5	225.5	220.9	219.4	218.7
20°	244.2	243.3	236.0	228.5	223.2	219.2	213.6	212.7	213.3
22.5°	241.7	239.7	232.4	224.9	217.1	213.6	208.0	207.9	208.0
25°	240.5	237.8	227.4	219.5	210.9	207.8	202.9	201.1	202.7
27.5°	236.9	234.4	222.2	213.6	204.0	199.8	195.8	195.4	195.6
30°	232.0	227.3	217.5	206.9	197.7	193.3	190.1	187.6	189.9
32.5°	225.1	222.4	211.3	199.8	189.6	186.5	183.3	183.0	183.0
35°	219.8	217.8	205.5	193.5	182.5	178.4	176.5	175.6	176.5
37.5°	213.6	210.7	199.3	185.8	174.7	171.1	169.2	168.5	169.1
40°	208.3	202.9	192.0	177.9	166.0	162.9	160.8	161.6	162.2
42.5°	200.4	197.3	183.4	169.9	158.6	155.2	153.6	154.2	155.6
45°	192.6	189.8	176.2	161.6	149.1	147.2	147.1	146.8	148.6
47.5°	185.6	181.6	168.3	153.3	141.1	139.0	139.2	140.5	142.0
50°	177.4	172.7	159.6	144.5	132.2	130.9	131.8	132.7	134.8
52.5°	169.3	165.6	151.6	136.1	123.2	122.3	123.6	126.4	127.6
55°	163.0	156.2	143.7	126.3	113.6	113.8	116.4	118.0	120.7
57.5°	152.9	147.8	134.8	117.5	104.7	105.5	109.2	111.8	113.5
60°	145.8	139.4	126.0	108.2	95.2	96.5	100.7	104.7	107.6
62.5°	136.6	131.0	116.9	99.0	86.5	88.4	93.0	97.8	99.8
65°	129.0	122.7	107.9	89.8	77.4	79.7	85.4	90.7	94.1
67.5°	122.6	116.1	99.9	81.3	68.2	71.6	78.2	83.4	86.1
70°	115.0	107.3	90.8	71.8	58.6	62.6	71.1	77.1	80.2
72.5°	106.9	100.7	83.0	63.1	49.7	54.6	63.9	70.2	73.1
75°	100.5	93.6	76.3	54.3	40.8	46.6	56.6	63.8	66.7
77.5°	94.1	87.8	68.8	46.3	32.7	39.3	50.2	58.1	61.1
80°	88.4	81.1	62.5	39.8	24.4	32.1	44.1	51.9	55.4
82.5°	82.1	75.8	57.0	32.9	17.3	25.6	38.2	46.7	49.6
85°	76.5	70.0	51.9	27.4	10.7	19.8	32.7	41.5	45.0
87.5°	71.4	66.0	47.2	23.3	5.3	15.0	27.5	36.4	40.4
90°	66.8	60.6	43.2	19.5	1.0	10.9	23.3	32.0	35.1
92.5°	63.9	56.5	39.9	17.1	0.6	7.8	19.4	28.0	31.5
95°	59.6	53.0	36.5	15.3	0.6	5.2	15.6	24.0	27.0
97.5°	55.8	49.7	34.1	14.2	0.5	3.5	12.9	20.1	23.3
100°	52.9	47.2	31.9	13.2	0.6	2.5	10.2	17.1	19.9
102.5°	49.6	44.4	30.2	12.6	0.6	1.8	8.0	14.4	17.0
105°	46.7	42.1	28.6	12.0	0.6	1.6	6.4	11.9	14.2
107.5°	44.5	39.7	27.3	11.6	0.6	1.6	5.1	9.7	11.6
110°	42.3	37.7	26.0	11.3	0.6	1.5	4.0	8.0	9.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	40.9	35.9	24.7	10.9	0.7	1.5	3.3	6.7	8.0
115°	38.3	34.3	23.7	10.8	0.7	1.3	3.0	5.5	6.8
117.5°	36.5	32.9	22.6	10.4	0.7	1.3	2.9	4.5	5.5
120°	35.2	31.2	21.6	10.1	0.7	1.2	2.7	4.0	4.6
122.5°	33.5	29.6	20.7	9.8	0.7	1.2	2.5	3.8	4.1
125°	31.2	28.1	19.8	9.3	0.8	1.2	2.4	3.5	3.9
127.5°	29.7	26.8	19.0	8.7	0.8	1.1	2.3	3.3	3.6
130°	28.5	25.3	18.2	8.1	0.8	1.1	2.2	3.0	3.4
132.5°	26.7	23.9	17.0	7.6	0.8	1.0	1.9	2.8	3.2
135°	25.0	22.7	15.8	7.2	0.8	1.0	1.8	2.7	2.9
137.5°	23.9	21.5	14.7	6.7	0.8	0.8	1.7	2.4	2.7
140°	22.1	20.1	13.5	6.2	0.8	0.8	1.6	2.3	2.4
142.5°	20.7	18.8	12.4	5.7	0.8	0.8	1.5	2.1	2.3
145°	19.2	17.5	11.2	5.2	0.8	0.7	1.3	1.9	2.1
147.5°	17.7	15.9	10.2	4.9	0.8	0.7	1.2	1.7	1.8
150°	16.3	14.3	9.2	4.5	0.8	0.7	1.1	1.5	1.7
152.5°	14.7	12.4	8.2	4.1	0.8	0.7	1.0	1.3	1.5
155°	13.1	10.8	7.4	3.8	1.0	0.7	0.8	1.1	1.3
157.5°	11.8	9.3	6.5	3.4	1.0	0.6	0.8	1.0	1.1
160°	10.2	8.0	5.8	3.0	1.0	0.6	0.7	0.8	1.0
162.5°	9.0	6.7	5.1	2.8	1.0	0.6	0.7	0.7	0.8
165°	7.6	5.6	4.2	2.5	1.0	0.6	0.6	0.6	0.7
167.5°	6.2	4.4	3.5	2.3	1.0	0.6	0.6	0.5	0.6
170°	4.6	3.3	2.9	2.1	1.0	0.6	0.5	0.4	0.5
172.5°	2.1	2.5	2.3	1.8	1.1	0.6	0.5	0.4	0.2
175°	1.1	1.8	1.8	1.6	1.1	0.6	0.5	0.4	0.1
177.5°	0.8	1.1	1.3	1.3	1.1	0.7	0.5	0.2	0.1
180°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7



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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	15.90	17.38	16.41	17.88	18.42	14.78	16.26	15.28	16.76	17.30
	3H	17.99	19.34	18.51	19.85	20.43	16.62	17.96	17.14	18.48	19.06
	4H	18.94	20.21	19.47	20.74	21.34	17.34	18.62	17.88	19.14	19.74
	6H	19.86	21.05	20.41	21.59	22.20	17.94	19.13	18.49	19.67	20.28
	8H	20.29	21.43	20.85	21.99	22.61	18.17	19.31	18.74	19.87	20.49
	12H	20.71	21.80	21.28	22.36	23.01	18.38	19.47	18.95	20.02	20.67
4H	2H	16.38	17.66	16.92	18.19	18.78	15.35	16.63	15.89	17.15	17.75
	3H	18.70	19.79	19.25	20.36	20.97	17.38	18.46	17.93	19.03	19.65
	4H	19.81	20.81	20.39	21.39	22.04	18.21	19.20	18.78	19.78	20.43
	6H	20.92	21.80	21.51	22.40	23.07	18.93	19.81	19.52	20.41	21.07
	8H	21.45	22.28	22.05	22.88	23.55	19.22	20.05	19.82	20.65	21.33
	12H	21.98	22.73	22.60	23.36	24.04	19.48	20.24	20.10	20.87	21.55
8H	4H	20.06	20.89	20.66	21.49	22.17	18.55	19.38	19.15	19.98	20.65
	6H	21.34	22.05	21.97	22.69	23.37	19.40	20.10	20.03	20.75	21.43
	8H	22.01	22.65	22.66	23.30	23.99	19.78	20.41	20.42	21.06	21.76
	12H	22.72	23.28	23.36	23.93	24.68	20.14	20.70	20.78	21.34	22.10
12H	4H	20.08	20.83	20.70	21.46	22.14	18.62	19.37	19.24	20.00	20.68
	6H	21.40	22.03	22.04	22.68	23.38	19.51	20.15	20.15	20.80	21.49
	8H	22.14	22.70	22.78	23.35	24.10	19.96	20.52	20.60	21.16	21.92