

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: P892897

Luminaire Tested: 2MB-SC3-A-UNV-CC93-LOW-3500K

Issue Date: 11/11/2024

**Test Information**

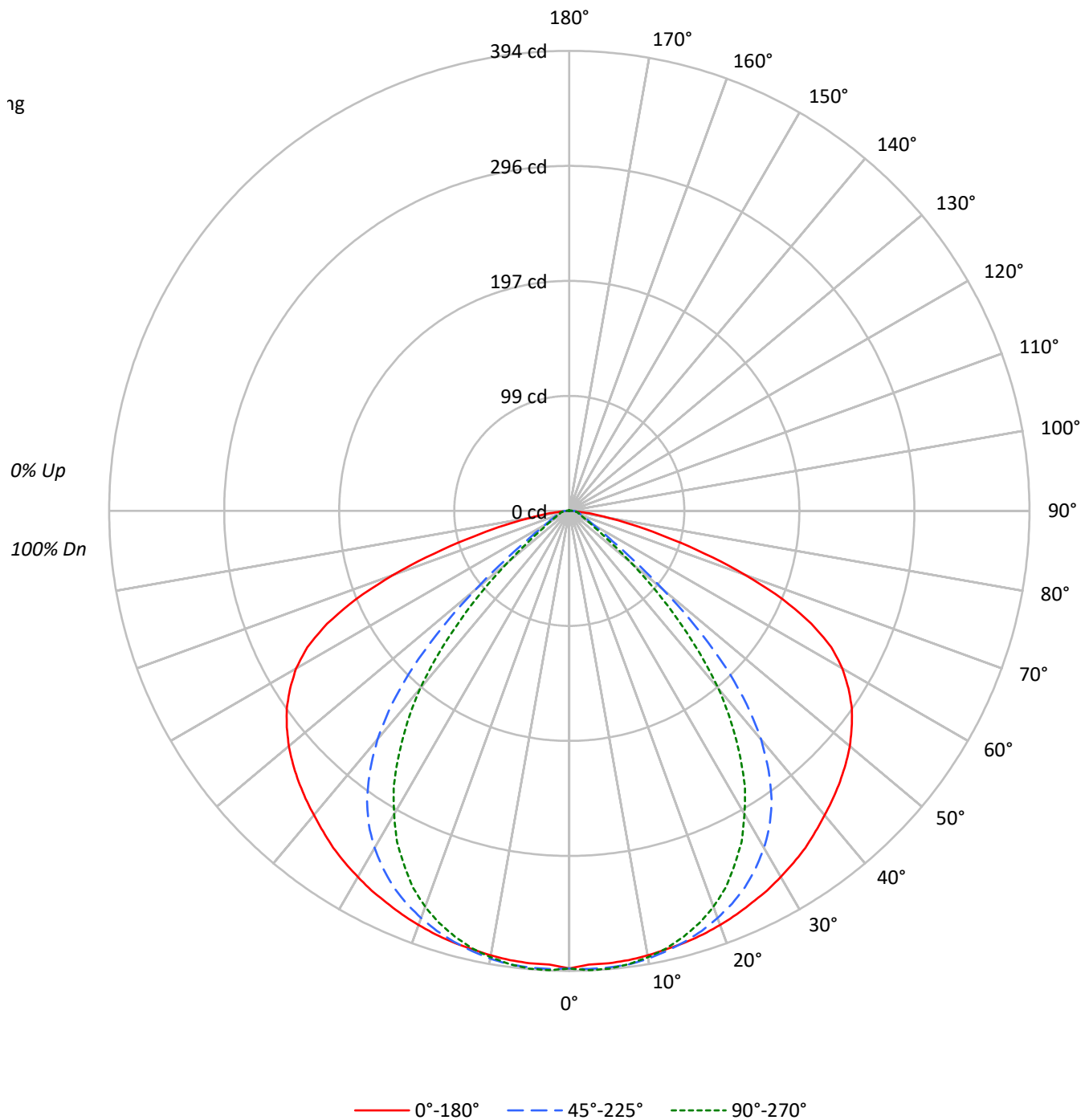
Test Method: LM-79-2019  
Report Number: P892897  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-A-UNV-CC93-LOW-3500K  
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 3500K CCT, LOW lumen settir  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 822.1 lumens  
Efficiency: N/A  
Efficacy: 119.2 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	72	69	76	72	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	69	65	61	69	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°	8025	8025	8025
5°	7994	8068	8088
10°	8038	8097	8070
15°	8113	8098	8005
20°	8224	8084	7862
25°	8364	8036	7562
30°	8559	7883	7093
35°	8807	7549	6354
40°	9091	6830	5314
45°	9492	5476	3788
50°	9987	3329	2173
55°	10546	1606	1167
60°	11061	983	794
65°	11081	795	654
70°	9591	718	611
75°	6749	728	665
80°	3974	873	849
85°	1856	1316	1269

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 62.5°  
 Luminance: 11215 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.3	4.5
10°-20°	107.8	13.1
20°-30°	163.1	19.8
30°-40°	188.4	22.9
40°-50°	161.1	19.6
50°-60°	88.0	10.7
60°-70°	44.4	5.4
70°-80°	21.6	2.6
80°-90°	7.4	0.9
90°-100°	1.8	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°	308.2	37.5
0°-40°	496.6	60.4
0°-60°	745.6	90.7
0°-90°	819.1	99.6
90°-120°	2.2	0.3
90°-150°	2.8	0.3
90°-180°	3.0	0.4
0°-180°	822.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	392	392	392	392	392	
5°	389	392	392	394	394	37
15°	383	385	382	380	378	108
25°	370	368	356	342	335	171
35°	352	340	302	267	254	221
45°	328	286	189	140	131	253
55°	295	136	45	35	33	263
65°	229	25	16	15	14	221
75°	85	14	9	9	8	95
85°	8	8	6	6	5	12
90°	0	5	4	4	3	0
95°	0	0	2	2	2	0
105°	0	0	0	0	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	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	391.9	391.9	391.9	391.9	391.9
2.5°	388.9	391.7	392.7	394.5	393.7
5°	388.9	391.9	392.5	394.0	393.5
7.5°	388.1	390.9	391.7	392.5	391.4
10°	386.6	389.4	389.4	389.4	388.1
12.5°	384.5	387.6	386.1	385.0	383.8
15°	382.7	385.0	382.0	380.2	377.6
17.5°	380.4	382.2	377.1	373.5	370.2
20°	377.4	378.1	371.0	364.3	360.8
22.5°	374.1	373.3	364.1	354.4	349.5
25°	370.2	368.2	355.7	341.9	334.7
27.5°	366.6	362.3	345.4	326.8	319.4
30°	362.0	356.2	333.4	309.9	300.0
32.5°	357.4	348.8	319.4	290.8	279.8
35°	352.3	340.3	302.0	266.7	254.2
37.5°	346.2	329.9	280.3	240.7	227.4
40°	340.1	317.6	255.5	210.5	198.8
42.5°	334.2	303.8	225.1	176.8	165.3
45°	327.8	286.2	189.1	140.5	130.8
47.5°	320.9	261.9	147.4	106.5	98.4
50°	313.5	230.5	104.5	74.6	68.2
52.5°	304.8	187.0	69.0	50.3	46.2
55°	295.4	135.7	45.0	35.0	32.7
57.5°	283.4	88.4	31.7	26.1	24.3
60°	270.1	52.9	24.0	20.7	19.4
62.5°	252.9	34.2	19.4	17.4	15.8
65°	228.7	25.3	16.4	14.6	13.5
67.5°	198.0	21.0	13.8	12.5	11.5
70°	160.2	18.4	12.0	11.0	10.2
72.5°	121.1	16.1	10.5	9.7	9.2
75°	85.3	14.1	9.2	8.9	8.4
77.5°	56.0	12.3	8.4	8.2	7.9
80°	33.7	10.5	7.4	7.4	7.2
82.5°	18.9	9.2	6.6	6.6	6.1
85°	7.9	7.9	5.6	5.6	5.4
87.5°	2.3	6.1	4.6	4.6	4.1
90°	0.0	4.6	3.6	3.6	3.3
92.5°	0.0	2.6	2.6	2.8	2.6
95°	0.0	0.5	1.5	2.3	2.0
97.5°	0.0	0.3	1.0	1.8	1.5
100°	0.0	0.0	0.5	1.3	1.0
102.5°	0.0	0.0	0.3	0.8	0.8
105°	0.0	0.0	0.3	0.5	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	0.5	0.3
157.5°	0.3	0.3	0.3	0.5	0.3
160°	0.3	0.3	0.3	0.5	0.3
162.5°	0.3	0.3	0.5	0.5	0.5
165°	0.3	0.3	0.5	0.5	0.5
167.5°	0.3	0.3	0.5	0.5	0.5
170°	0.3	0.3	0.5	0.5	0.5
172.5°	0.3	0.3	0.5	0.5	0.5
175°	0.3	0.3	0.5	0.5	0.5
177.5°	0.3	0.3	0.5	0.5	0.5
180°	0.5	0.5	0.5	0.5	0.5



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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	17.40	18.82	17.78	19.14	19.46	6.53	7.95	6.90	8.27	8.59
	3H	20.18	21.44	20.57	21.78	22.15	7.53	8.79	7.92	9.13	9.50
	4H	21.02	22.19	21.42	22.55	22.94	8.09	9.26	8.49	9.62	10.01
	6H	21.41	22.49	21.83	22.87	23.27	8.79	9.87	9.21	10.24	10.65
	8H	21.48	22.51	21.92	22.91	23.32	9.16	10.18	9.59	10.58	10.99
	12H	21.50	22.48	21.94	22.87	23.31	9.58	10.56	10.02	10.95	11.39
4H	2H	17.22	18.40	17.63	18.76	19.15	6.97	8.14	7.38	8.50	8.89
	3H	20.02	20.98	20.44	21.39	21.80	8.24	9.20	8.66	9.61	10.02
	4H	20.85	21.71	21.29	22.14	22.59	8.97	9.83	9.41	10.25	10.70
	6H	21.32	22.07	21.79	22.52	22.99	9.88	10.63	10.35	11.08	11.55
	8H	21.43	22.13	21.91	22.59	23.06	10.36	11.06	10.84	11.51	11.99
	12H	21.49	22.11	21.98	22.60	23.08	10.91	11.53	11.40	12.02	12.50
8H	4H	20.74	21.44	21.22	21.89	22.37	9.41	10.10	9.88	10.56	11.04
	6H	21.22	21.79	21.72	22.29	22.78	10.52	11.10	11.03	11.60	12.09
	8H	21.35	21.87	21.87	22.39	22.89	11.16	11.68	11.69	12.20	12.70
	12H	21.45	21.91	21.96	22.41	22.98	11.90	12.36	12.42	12.86	13.44
12H	4H	20.71	21.33	21.20	21.82	22.30	9.57	10.19	10.06	10.68	11.16
	6H	21.17	21.69	21.69	22.21	22.71	10.74	11.26	11.26	11.77	12.27
	8H	21.33	21.79	21.85	22.29	22.87	11.47	11.93	11.99	12.43	13.01