

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: P895786

Luminaire Tested: 2MB-SC3-ACL-UNV-CC93-LOW-4000K

Issue Date: 11/19/2024

**Test Information**

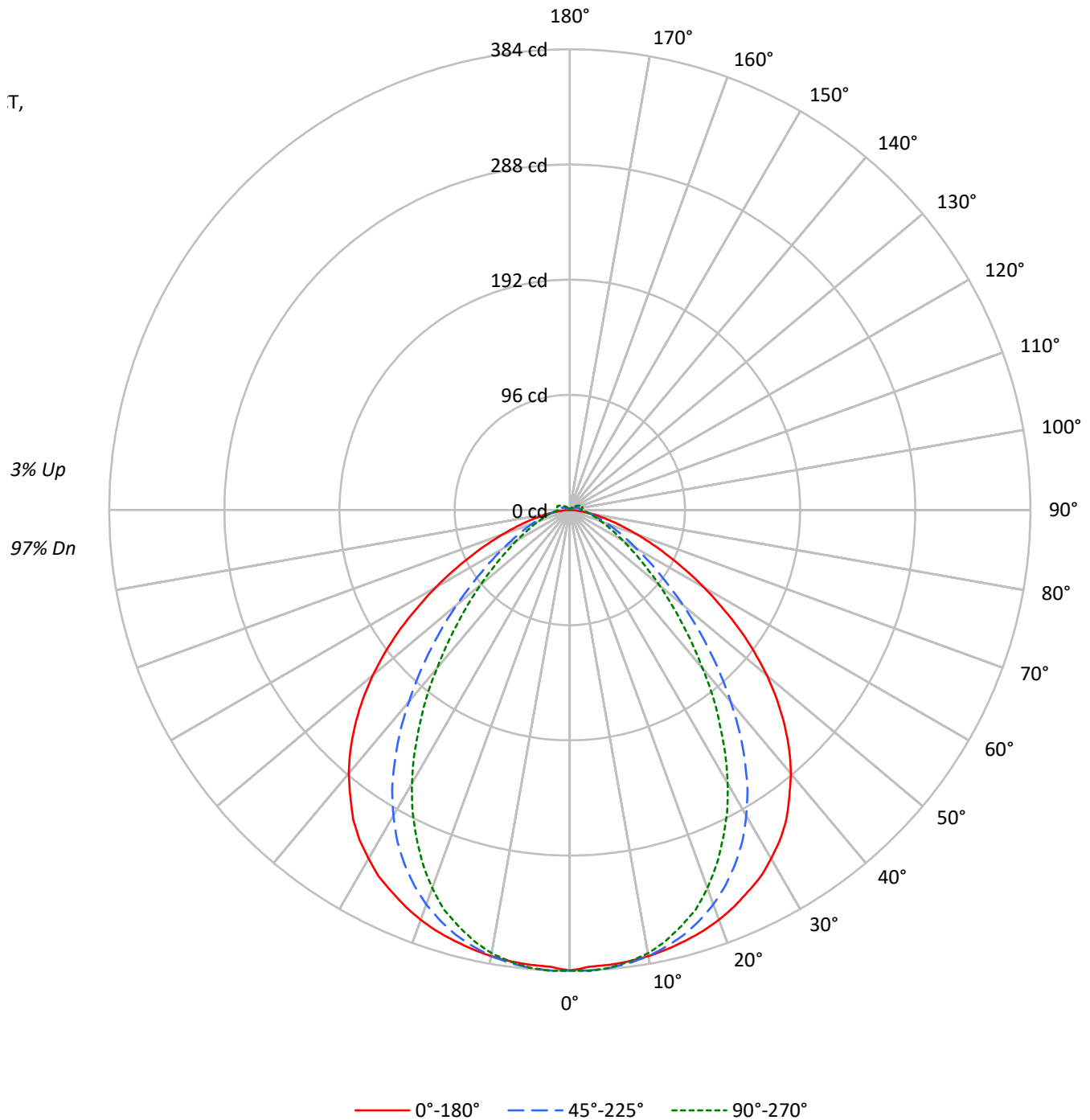
Test Method: LM-79-2019  
Report Number: P895786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ACL-UNV-CC93-LOW-4000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 4000K CC  
LOW lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 800.1 lumens  
Efficiency: N/A  
Efficacy: 116.0 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				
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°	7861	7861	7861
5°	7792	7705	7660
10°	7793	7518	7393
15°	7794	7285	7019
20°	7804	6985	6560
25°	7782	6590	5955
30°	7747	6074	5271
35°	7644	5401	4468
40°	7405	4606	3640
45°	7033	3792	2886
50°	6507	3015	2252
55°	5792	2343	1743
60°	4935	1829	1367
65°	4035	1454	1086
70°	3198	1175	891
75°	2475	959	780
80°	1761	807	704
85°	999	703	635

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7033 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.4	4.5
10°-20°	103.2	12.9
20°-30°	150.0	18.7
30°-40°	162.1	20.3
40°-50°	136.8	17.1
50°-60°	93.7	11.7
60°-70°	54.6	6.8
70°-80°	27.9	3.5
80°-90°	12.0	1.5
90°-100°	7.3	0.9
100°-110°	6.5	0.8
110°-120°	4.4	0.6
120°-130°	2.5	0.3
130°-140°	1.4	0.2
140°-150°	0.7	0.1
150°-160°	0.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	289.5	36.2
0°-40°	451.6	56.4
0°-60°	682.1	85.3
0°-90°	776.7	97.1
90°-120°	18.3	2.3
90°-150°	22.8	2.9
90°-180°	23.0	2.9
0°-180°	800.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	380	383	383	384	383	36
15°	372	372	367	362	359	105
25°	351	344	326	310	302	162
35°	315	294	254	227	218	196
45°	253	214	164	138	131	195
55°	172	130	89	75	71	153
65°	91	67	46	39	38	91
75°	36	30	24	22	21	39
85°	6	9	12	12	12	8
90°	0	4	8	10	10	0
95°	0	4	8	10	10	0
105°	0	2	7	10	11	0
115°	0	1	4	8	9	0
125°	0	1	3	4	5	0
135°	0	1	2	3	3	0
145°	0	0	1	2	2	0
155°	0	0	1	1	1	0
165°	0	0	0	1	1	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°	383.9	383.9	383.9	383.9	383.9
2.5°	381.0	383.4	384.2	385.3	384.5
5°	380.5	382.9	383.1	383.9	382.9
7.5°	379.4	381.3	380.8	380.8	379.7
10°	377.6	378.7	377.6	376.3	375.2
12.5°	375.0	375.8	372.6	370.7	368.1
15°	371.8	371.5	366.8	362.3	358.9
17.5°	368.1	366.3	358.9	352.0	349.1
20°	363.6	360.2	349.9	339.9	335.4
22.5°	357.8	353.1	338.8	325.9	319.8
25°	351.2	344.4	325.9	309.8	302.1
27.5°	344.6	334.3	311.4	291.3	283.9
30°	335.6	322.7	294.2	271.5	263.3
32.5°	326.1	309.8	275.7	249.4	241.2
35°	314.8	294.5	254.1	226.9	218.0
37.5°	300.6	276.5	232.2	203.7	196.1
40°	286.8	257.0	208.7	180.5	172.0
42.5°	270.7	235.9	186.0	158.6	150.9
45°	253.1	214.0	163.9	138.5	130.9
47.5°	234.3	193.2	142.8	119.3	113.2
50°	214.5	171.8	123.0	102.6	97.1
52.5°	193.4	150.4	104.8	87.9	82.9
55°	172.0	130.4	89.2	74.7	70.7
57.5°	149.6	111.1	76.0	63.6	59.9
60°	129.3	95.0	64.1	54.4	51.5
62.5°	109.2	80.2	54.6	46.2	43.8
65°	90.8	66.8	46.2	39.3	37.5
67.5°	74.7	55.9	39.6	33.8	32.5
70°	59.6	45.7	33.2	29.0	27.7
72.5°	47.0	36.9	28.0	25.1	24.3
75°	36.2	29.6	23.5	21.9	21.4
77.5°	26.4	22.7	19.8	19.0	18.7
80°	18.5	17.2	16.6	16.6	16.6
82.5°	11.6	12.7	14.0	14.5	14.5
85°	6.3	8.7	11.6	12.4	12.4
87.5°	2.6	6.1	9.8	10.6	10.3
90°	0.3	4.0	8.4	9.5	9.5
92.5°	0.0	4.0	8.4	9.5	9.5
95°	0.0	3.7	8.2	9.8	10.0
97.5°	0.0	3.4	8.2	10.0	10.3
100°	0.3	3.2	8.2	10.3	10.6
102.5°	0.0	2.6	7.7	10.3	10.8
105°	0.0	2.1	7.1	10.3	10.8
107.5°	0.0	1.6	6.6	9.8	10.6
110°	0.0	1.6	6.1	9.2	10.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.3	5.3	8.4	9.5
115°	0.0	1.3	4.5	7.7	8.7
117.5°	0.0	1.1	4.0	6.9	7.7
120°	0.0	1.1	3.4	6.1	6.9
122.5°	0.0	1.1	3.2	5.3	6.1
125°	0.0	0.8	2.6	4.5	5.3
127.5°	0.3	0.8	2.4	4.0	4.7
130°	0.3	0.8	2.1	3.4	4.2
132.5°	0.3	0.8	1.8	3.2	3.7
135°	0.3	0.8	1.8	2.6	3.2
137.5°	0.3	0.8	1.6	2.4	2.6
140°	0.3	0.8	1.3	2.1	2.4
142.5°	0.3	0.5	1.3	1.8	2.1
145°	0.3	0.5	1.3	1.6	1.8
147.5°	0.3	0.5	1.1	1.6	1.6
150°	0.3	0.5	1.1	1.3	1.6
152.5°	0.3	0.5	0.8	1.3	1.3
155°	0.3	0.5	0.8	1.1	1.3
157.5°	0.3	0.5	0.8	1.1	1.1
160°	0.3	0.5	0.5	0.8	1.1
162.5°	0.3	0.3	0.5	0.8	0.8
165°	0.3	0.3	0.5	0.8	0.8
167.5°	0.3	0.3	0.5	0.5	0.8
170°	0.3	0.3	0.5	0.5	0.5
172.5°	0.3	0.3	0.5	0.5	0.3
175°	0.3	0.3	0.5	0.5	0.3
177.5°	0.3	0.3	0.5	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	15.70	17.10	16.11	17.47	17.86	12.02	13.42	12.44	13.80	14.19
	3H	16.76	18.01	17.19	18.41	18.84	13.20	14.45	13.63	14.85	15.28
	4H	17.06	18.23	17.51	18.64	19.09	13.73	14.90	14.18	15.31	15.76
	6H	17.19	18.27	17.65	18.70	19.16	14.26	15.35	14.73	15.77	16.24
	8H	17.20	18.23	17.68	18.68	19.15	14.54	15.57	15.02	16.02	16.49
	12H	17.19	18.17	17.67	18.62	19.12	14.83	15.82	15.31	16.26	16.76
4H	2H	15.73	16.90	16.18	17.31	17.76	12.48	13.65	12.93	14.06	14.51
	3H	16.95	17.92	17.41	18.38	18.85	13.84	14.81	14.30	15.27	15.74
	4H	17.33	18.20	17.81	18.68	19.19	14.47	15.35	14.96	15.82	16.33
	6H	17.55	18.31	18.06	18.81	19.34	15.14	15.90	15.65	16.40	16.93
	8H	17.58	18.29	18.10	18.79	19.33	15.49	16.20	16.00	16.70	17.23
	12H	17.59	18.22	18.12	18.75	19.29	15.86	16.50	16.40	17.03	17.57
8H	4H	17.35	18.06	17.86	18.56	19.10	14.69	15.40	15.20	15.90	16.44
	6H	17.63	18.21	18.17	18.76	19.30	15.47	16.06	16.02	16.61	17.15
	8H	17.69	18.22	18.26	18.78	19.34	15.91	16.44	16.47	17.00	17.56
	12H	17.73	18.20	18.29	18.74	19.37	16.41	16.88	16.97	17.43	18.06
12H	4H	17.34	17.97	17.87	18.50	19.04	14.70	15.33	15.23	15.86	16.41
	6H	17.62	18.15	18.18	18.71	19.27	15.51	16.03	16.07	16.60	17.15
	8H	17.73	18.19	18.28	18.74	19.37	16.00	16.47	16.56	17.01	17.64