

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: P892937

Luminaire Tested: 2MB-SC3-AOL-UNV-CC93-MID-4000K

Issue Date: 11/11/2024

**Test Information**

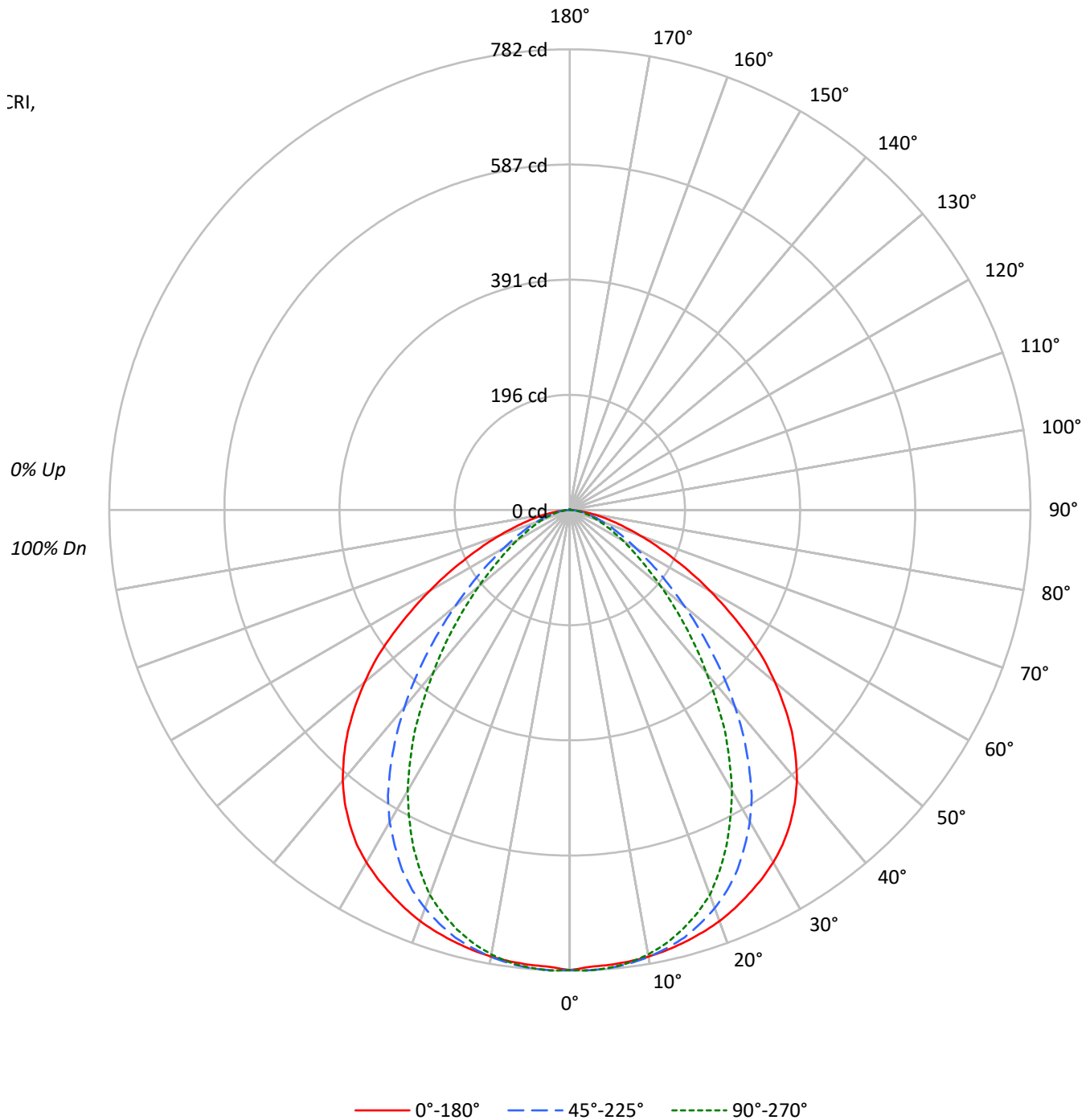
Test Method: LM-79-2019  
Report Number: P892937  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-AOL-UNV-CC93-MID-4000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 90C  
4000K CCT, MID lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1592.0 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.08 / 1.18  
Luminous Opening: Rectangular (W 0.27' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 13.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9948  
Total Harmonic Distortion (THDi): 5.65231997856897  
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	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	68	68	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	60	60	60	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	53	53	53	52
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	48	48	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	43	43	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	39	39	39	37
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	36	36	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	33	33	33	31

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

	0°	45°	90°
0°	15990	15990	15990
5°	15930	16039	16029
10°	16006	16016	15929
15°	16084	15927	15636
20°	16186	15670	15151
25°	16247	15221	14218
30°	16329	14456	13021
35°	16286	13251	11481
40°	16033	11670	9652
45°	15440	9860	7966
50°	14482	8107	6425
55°	13080	6579	5166
60°	11266	5295	4280
65°	9361	4375	3556
70°	7681	3664	3035
75°	6100	3133	2635
80°	4611	2677	2370
85°	3101	2490	2232

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15440 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.1	4.7
10°-20°	211.3	13.3
20°-30°	309.5	19.4
30°-40°	337.8	21.2
40°-50°	286.4	18.0
50°-60°	194.7	12.2
60°-70°	110.0	6.9
70°-80°	50.2	3.2
80°-90°	13.1	0.8
90°-100°	1.7	0.1
100°-110°	1.0	0.1
110°-120°	0.6	0.0
120°-130°	0.5	0.0
130°-140°	0.4	0.0
140°-150°	0.3	0.0
150°-160°	0.2	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	595.0	37.4
0°-40°	932.7	58.6
0°-60°	1413.8	88.8
0°-90°	1587.0	99.7
90°-120°	3.2	0.2
90°-150°	4.4	0.3
90°-180°	5.0	0.3
0°-180°	1592.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	775	779	780	782	780	74
15°	759	758	751	743	738	214
25°	719	707	674	643	629	332
35°	652	610	530	475	459	407
45°	533	450	340	289	275	409
55°	366	271	184	153	145	327
65°	193	137	90	77	73	194
75°	77	56	40	35	33	84
85°	13	12	11	10	10	16
90°	0	2	2	3	3	1
95°	0	0	2	3	3	0
105°	0	0	1	2	2	0
115°	0	0	0	1	1	0
125°	0	0	0	1	1	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	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°	780.9	780.9	780.9	780.9	780.9
2.5°	776.1	780.3	781.9	784.0	782.4
5°	775.0	779.3	780.3	781.9	779.8
7.5°	772.9	776.6	776.6	776.6	775.0
10°	769.8	772.4	770.3	768.2	766.1
12.5°	765.0	766.1	761.8	758.1	753.9
15°	758.7	758.1	751.3	742.8	737.6
17.5°	751.3	749.2	736.5	725.4	718.0
20°	742.8	737.6	719.1	701.7	695.3
22.5°	731.8	724.4	698.5	674.2	663.6
25°	719.1	706.9	673.7	643.1	629.3
27.5°	705.9	687.9	643.1	605.0	590.3
30°	690.6	665.8	611.4	567.6	550.7
32.5°	673.1	641.5	574.9	522.2	504.2
35°	651.5	609.8	530.1	474.6	459.3
37.5°	627.2	576.0	484.7	427.1	408.6
40°	599.8	537.5	436.6	379.1	361.1
42.5°	567.6	496.3	389.1	333.1	317.8
45°	533.2	450.3	340.5	289.3	275.1
47.5°	494.7	404.9	296.2	247.6	236.5
50°	454.6	359.5	254.5	212.8	201.7
52.5°	413.9	314.1	215.9	180.6	171.1
55°	366.4	270.8	184.3	153.1	144.7
57.5°	319.9	232.3	154.2	128.3	123.0
60°	275.1	195.3	129.3	108.2	104.5
62.5°	233.4	163.7	108.8	91.3	86.6
65°	193.2	137.3	90.3	77.1	73.4
67.5°	158.9	111.9	75.5	63.9	60.7
70°	128.3	90.3	61.2	52.3	50.7
72.5°	99.8	72.3	50.2	43.3	41.7
75°	77.1	56.5	39.6	34.8	33.3
77.5°	56.5	42.2	30.6	26.9	25.9
80°	39.1	30.1	22.7	20.6	20.1
82.5°	24.8	19.5	16.4	14.8	14.8
85°	13.2	12.1	10.6	10.0	9.5
87.5°	5.3	5.8	5.8	5.8	5.3
90°	0.0	1.6	2.1	2.6	2.6
92.5°	0.0	1.1	2.1	2.6	2.6
95°	0.0	0.5	1.6	2.6	2.6
97.5°	0.0	0.5	1.6	2.1	2.1
100°	0.0	0.5	1.1	2.1	2.1
102.5°	0.0	0.5	1.1	1.6	2.1
105°	0.0	0.5	1.1	1.6	1.6
107.5°	0.0	0.0	1.1	1.6	1.6
110°	0.0	0.0	0.5	1.1	1.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.5	1.1	1.6
115°	0.0	0.0	0.5	1.1	1.1
117.5°	0.0	0.0	0.5	1.1	1.1
120°	0.0	0.0	0.5	1.1	1.1
122.5°	0.0	0.0	0.5	1.1	1.1
125°	0.0	0.0	0.5	1.1	1.1
127.5°	0.0	0.5	0.5	0.5	1.1
130°	0.0	0.5	0.5	0.5	1.1
132.5°	0.5	0.5	0.5	0.5	0.5
135°	0.5	0.5	0.5	0.5	0.5
137.5°	0.5	0.5	0.5	0.5	0.5
140°	0.5	0.5	0.5	0.5	0.5
142.5°	0.5	0.5	0.5	0.5	0.5
145°	0.5	0.5	0.5	0.5	0.5
147.5°	0.5	0.5	0.5	0.5	0.5
150°	0.5	0.5	0.5	0.5	0.5
152.5°	0.5	0.5	0.5	0.5	0.5
155°	0.5	0.5	0.5	0.5	0.5
157.5°	0.5	0.5	0.5	0.5	0.5
160°	0.5	0.5	0.5	0.5	1.1
162.5°	0.5	0.5	0.5	1.1	1.1
165°	0.5	0.5	0.5	1.1	1.1
167.5°	0.5	0.5	0.5	1.1	1.1
170°	0.5	0.5	0.5	1.1	1.1
172.5°	0.5	0.5	0.5	1.1	1.1
175°	0.5	0.5	1.1	1.1	1.1
177.5°	0.5	0.5	1.1	1.1	1.1
180°	1.1	1.1	1.1	1.1	1.1



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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	19.97	21.41	20.34	21.73	22.05	15.33	16.77	15.70	17.09	17.42
	3H	21.22	22.51	21.60	22.84	23.21	16.37	17.66	16.75	17.99	18.36
	4H	21.62	22.82	22.02	23.18	23.57	16.74	17.94	17.14	18.30	18.69
	6H	21.86	22.97	22.28	23.34	23.74	17.00	18.11	17.42	18.48	18.88
	8H	21.91	22.97	22.34	23.36	23.77	17.09	18.15	17.52	18.54	18.95
	12H	21.93	22.94	22.37	23.33	23.76	17.16	18.16	17.59	18.55	18.99
4H	2H	19.98	21.18	20.39	21.54	21.93	15.90	17.11	16.31	17.46	17.85
	3H	21.39	22.38	21.81	22.79	23.20	17.13	18.12	17.55	18.53	18.94
	4H	21.88	22.77	22.32	23.19	23.64	17.59	18.48	18.03	18.90	19.35
	6H	22.22	22.99	22.69	23.44	23.91	17.95	18.72	18.41	19.17	19.64
	8H	22.31	23.03	22.78	23.48	23.96	18.07	18.79	18.54	19.24	19.72
	12H	22.36	23.00	22.85	23.48	23.96	18.17	18.81	18.66	19.30	19.78
8H	4H	21.87	22.59	22.34	23.04	23.52	17.88	18.60	18.35	19.05	19.53
	6H	22.26	22.86	22.77	23.36	23.84	18.33	18.92	18.83	19.42	19.90
	8H	22.39	22.92	22.91	23.44	23.93	18.50	19.04	19.03	19.55	20.05
	12H	22.48	22.95	22.99	23.45	24.02	18.67	19.14	19.19	19.64	20.21
12H	4H	21.85	22.49	22.34	22.97	23.45	17.91	18.55	18.40	19.04	19.52
	6H	22.24	22.77	22.76	23.29	23.78	18.38	18.91	18.90	19.43	19.92
	8H	22.39	22.86	22.91	23.36	23.94	18.61	19.08	19.12	19.58	20.15