

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: P892891

Luminaire Tested: 2MB-SC3-A-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

**Test Information**

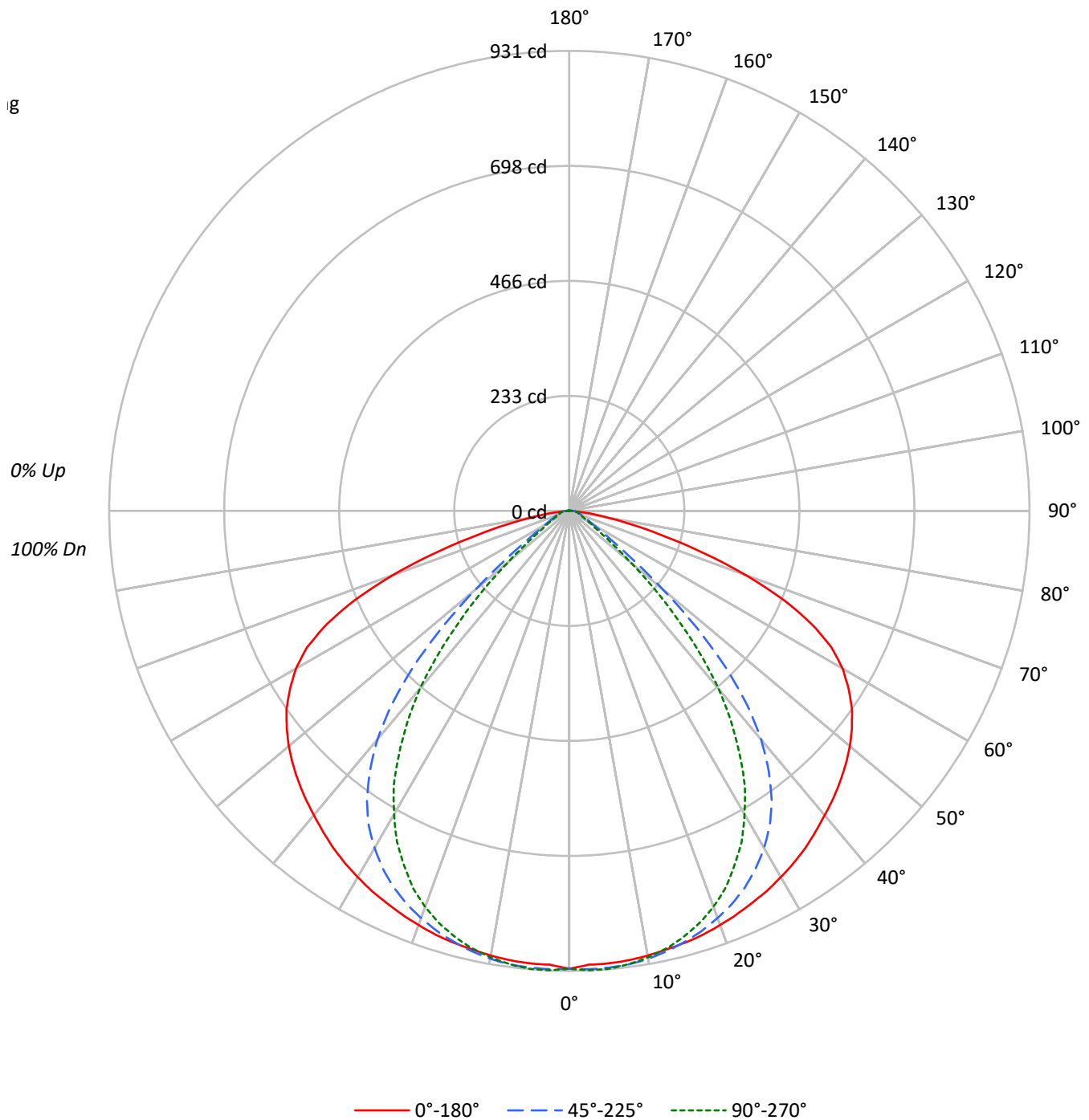
Test Method: LM-79-2019  
Report Number: P892891  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-A-UNV-CC83-MID-3500K  
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 3500K CCT, MID lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1943.0 lumens  
Efficiency: N/A  
Efficacy: 139.8 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): 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	105	101	99	100	98	95	97	94	93	93	91	90	90	90	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	79	79	79	77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	76	73	69	69	69	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	61	61	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	59	55	55	55	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	49	49	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	44	44	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	40	40	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	36	36	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	32

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

	0°	45°	90°
0°	18971	18971	18971
5°	18894	19069	19118
10°	19000	19137	19075
15°	19179	19140	18922
20°	19437	19108	18583
25°	19771	18994	17876
30°	20235	18634	16764
35°	20818	17845	15021
40°	21488	16142	12561
45°	22440	12941	8954
50°	23605	7868	5138
55°	24926	3795	2760
60°	26144	2326	1880
65°	26188	1875	1550
70°	22672	1700	1449
75°	15958	1717	1574
80°	9398	2064	1993
85°	4393	3125	2984

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 62.5°  
 Luminance: 26514 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.3	4.5
10°-20°	254.7	13.1
20°-30°	385.5	19.8
30°-40°	445.2	22.9
40°-50°	380.8	19.6
50°-60°	208.0	10.7
60°-70°	105.1	5.4
70°-80°	51.0	2.6
80°-90°	17.5	0.9
90°-100°	4.2	0.2
100°-110°	0.7	0.0
110°-120°	0.3	0.0
120°-130°	0.2	0.0
130°-140°	0.4	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	728.5	37.5
0°-40°	1173.8	60.4
0°-60°	1762.5	90.7
0°-90°	1936.1	99.6
90°-120°	5.2	0.3
90°-150°	6.2	0.3
90°-180°	7.0	0.4
0°-180°	1943.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	919	926	928	931	930	88
15°	905	910	903	899	893	256
25°	875	870	841	808	791	405
35°	833	804	714	630	601	522
45°	775	676	447	332	309	599
55°	698	321	106	83	77	622
65°	540	60	39	34	32	523
75°	202	33	22	21	20	223
85°	19	19	13	13	13	29
90°	0	11	8	8	8	1
95°	0	1	4	5	5	0
105°	0	0	1	1	1	0
115°	0	0	0	1	1	0
125°	0	0	1	1	0	0
135°	1	1	1	1	1	0
145°	1	1	1	1	1	0
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	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°	926.5	926.5	926.5	926.5	926.5
2.5°	919.2	925.8	928.3	932.5	930.7
5°	919.2	926.5	927.7	931.3	930.1
7.5°	917.4	924.0	925.8	927.7	925.2
10°	913.8	920.4	920.4	920.4	917.4
12.5°	908.9	916.2	912.6	910.1	907.1
15°	904.7	910.1	902.9	898.7	892.6
17.5°	899.3	903.5	891.4	883.0	875.1
20°	892.0	893.8	876.9	861.2	852.8
22.5°	884.2	882.4	860.6	837.7	826.2
25°	875.1	870.3	840.7	808.1	791.2
27.5°	866.7	856.4	816.5	772.4	754.9
30°	855.8	841.9	788.1	732.6	709.0
32.5°	844.9	824.4	754.9	687.3	661.3
35°	832.8	804.5	713.9	630.5	600.9
37.5°	818.3	779.7	662.5	568.9	537.5
40°	803.9	750.7	603.9	497.7	469.9
42.5°	790.0	718.1	532.1	417.9	390.8
45°	774.9	676.4	446.9	332.2	309.2
47.5°	758.6	619.0	348.5	251.8	232.5
50°	741.0	544.8	247.0	176.4	161.3
52.5°	720.5	442.1	163.1	119.0	109.3
55°	698.2	320.7	106.3	82.7	77.3
57.5°	669.8	209.0	74.9	61.6	57.4
60°	638.4	125.0	56.8	48.9	45.9
62.5°	597.9	80.9	45.9	41.1	37.4
65°	540.5	59.8	38.7	34.4	32.0
67.5°	468.1	49.5	32.6	29.6	27.2
70°	378.7	43.5	28.4	26.0	24.2
72.5°	286.3	38.0	24.8	22.9	21.7
75°	201.7	33.2	21.7	21.1	19.9
77.5°	132.3	29.0	19.9	19.3	18.7
80°	79.7	24.8	17.5	17.5	16.9
82.5°	44.7	21.7	15.7	15.7	14.5
85°	18.7	18.7	13.3	13.3	12.7
87.5°	5.4	14.5	10.9	10.9	9.7
90°	0.0	10.9	8.5	8.5	7.9
92.5°	0.0	6.0	6.0	6.6	6.0
95°	0.0	1.2	3.6	5.4	4.8
97.5°	0.0	0.6	2.4	4.2	3.6
100°	0.0	0.0	1.2	3.0	2.4
102.5°	0.0	0.0	0.6	1.8	1.8
105°	0.0	0.0	0.6	1.2	0.6
107.5°	0.0	0.0	0.6	0.6	0.6
110°	0.0	0.0	0.6	0.6	0.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.6	0.6	0.6
115°	0.0	0.0	0.0	0.6	0.6
117.5°	0.0	0.0	0.0	0.6	0.0
120°	0.0	0.0	0.0	0.6	0.0
122.5°	0.0	0.0	0.0	0.6	0.0
125°	0.0	0.0	0.6	0.6	0.0
127.5°	0.0	0.0	0.6	0.6	0.6
130°	0.0	0.0	0.6	0.6	0.6
132.5°	0.6	0.0	0.6	0.6	0.6
135°	0.6	0.6	0.6	0.6	0.6
137.5°	0.6	0.6	0.6	0.6	0.6
140°	0.6	0.6	0.6	0.6	0.6
142.5°	0.6	0.6	0.6	0.6	0.6
145°	0.6	0.6	0.6	0.6	0.6
147.5°	0.6	0.6	0.6	0.6	0.6
150°	0.6	0.6	0.6	0.6	0.6
152.5°	0.6	0.6	0.6	0.6	0.6
155°	0.6	0.6	0.6	1.2	0.6
157.5°	0.6	0.6	0.6	1.2	0.6
160°	0.6	0.6	0.6	1.2	0.6
162.5°	0.6	0.6	1.2	1.2	1.2
165°	0.6	0.6	1.2	1.2	1.2
167.5°	0.6	0.6	1.2	1.2	1.2
170°	0.6	0.6	1.2	1.2	1.2
172.5°	0.6	0.6	1.2	1.2	1.2
175°	0.6	0.6	1.2	1.2	1.2
177.5°	0.6	0.6	1.2	1.2	1.2
180°	1.2	1.2	1.2	1.2	1.2



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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	20.39	21.81	20.77	22.13	22.45	9.51	10.93	9.89	11.25	11.57
	3H	23.17	24.43	23.56	24.77	25.14	10.52	11.78	10.91	12.11	12.49
	4H	24.01	25.18	24.41	25.54	25.93	11.07	12.25	11.48	12.60	12.99
	6H	24.40	25.48	24.82	25.86	26.26	11.77	12.85	12.19	13.23	13.63
	8H	24.47	25.50	24.91	25.90	26.31	12.15	13.17	12.58	13.57	13.98
	12H	24.49	25.47	24.93	25.86	26.30	12.57	13.55	13.00	13.94	14.38
4H	2H	20.22	21.39	20.62	21.75	22.14	9.95	11.12	10.36	11.48	11.87
	3H	23.01	23.97	23.43	24.38	24.79	11.22	12.19	11.64	12.60	13.01
	4H	23.84	24.70	24.28	25.13	25.58	11.96	12.82	12.40	13.24	13.69
	6H	24.31	25.06	24.78	25.51	25.98	12.87	13.62	13.34	14.07	14.54
	8H	24.42	25.12	24.90	25.58	26.05	13.35	14.05	13.83	14.50	14.98
	12H	24.48	25.10	24.97	25.58	26.07	13.90	14.52	14.39	15.01	15.49
8H	4H	23.73	24.43	24.21	24.88	25.36	12.40	13.09	12.87	13.55	14.02
	6H	24.21	24.78	24.71	25.28	25.77	13.51	14.09	14.02	14.59	15.07
	8H	24.34	24.86	24.86	25.38	25.88	14.15	14.67	14.68	15.19	15.69
	12H	24.44	24.90	24.95	25.40	25.97	14.90	15.36	15.42	15.86	16.43
12H	4H	23.70	24.32	24.19	24.81	25.29	12.56	13.18	13.05	13.67	14.15
	6H	24.16	24.68	24.68	25.20	25.69	13.72	14.24	14.25	14.76	15.26
	8H	24.32	24.78	24.84	25.28	25.85	14.46	14.92	14.98	15.42	16.00