

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: P892926

Luminaire Tested: 2MB-SC3-AOL-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892926
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-CC83-LOW-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800
5000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

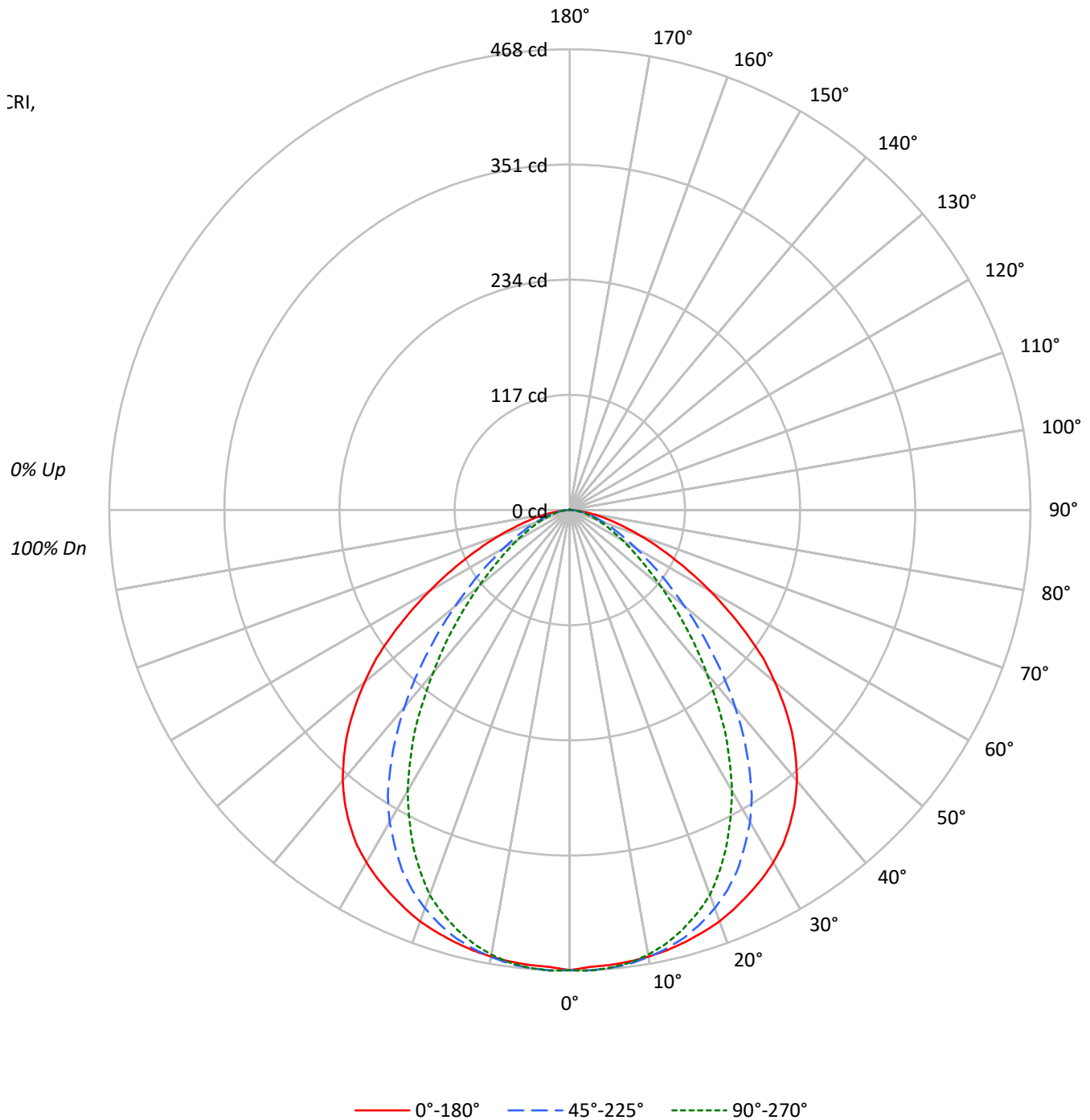
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 952.9 lumens
Efficiency: N/A
Efficacy: 138.1 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): 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	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°	9571	9571	9571
5°	9537	9601	9595
10°	9581	9587	9535
15°	9629	9533	9359
20°	9690	9381	9069
25°	9726	9112	8511
30°	9775	8654	7793
35°	9749	7932	6874
40°	9596	6987	5779
45°	9243	5902	4769
50°	8668	4852	3845
55°	7829	3938	3092
60°	6745	3170	2564
65°	5606	2616	2127
70°	4598	2197	1814
75°	3647	1875	1574
80°	2759	1604	1415
85°	1856	1480	1339

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9243 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	4.7
10°-20°	126.5	13.3
20°-30°	185.3	19.4
30°-40°	202.2	21.2
40°-50°	171.4	18.0
50°-60°	116.5	12.2
60°-70°	65.8	6.9
70°-80°	30.0	3.2
80°-90°	7.8	0.8
90°-100°	1.0	0.1
100°-110°	0.6	0.1
110°-120°	0.3	0.0
120°-130°	0.3	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	356.2	37.4
0°-40°	558.3	58.6
0°-60°	846.3	88.8
0°-90°	950.0	99.7
90°-120°	1.9	0.2
90°-150°	2.6	0.3
90°-180°	3.0	0.3
0°-180°	952.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	467	467	467	467	467	
5°	464	466	467	468	467	44
15°	454	454	450	445	442	128
25°	430	423	403	385	377	199
35°	390	365	317	284	275	243
45°	319	270	204	173	165	245
55°	219	162	110	92	87	196
65°	116	82	54	46	44	116
75°	46	34	24	21	20	50
85°	8	7	6	6	6	10
90°	0	1	1	2	2	0
95°	0	0	1	2	2	0
105°	0	0	1	1	1	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°	467.4	467.4	467.4	467.4	467.4
2.5°	464.6	467.1	468.1	469.3	468.4
5°	464.0	466.5	467.1	468.1	466.8
7.5°	462.7	464.9	464.9	464.9	464.0
10°	460.8	462.4	461.1	459.8	458.6
12.5°	457.9	458.6	456.1	453.8	451.3
15°	454.2	453.8	449.7	444.7	441.5
17.5°	449.7	448.5	440.9	434.2	429.8
20°	444.7	441.5	430.5	420.0	416.2
22.5°	438.0	433.6	418.1	403.6	397.3
25°	430.5	423.2	403.3	384.9	376.7
27.5°	422.6	411.8	384.9	362.2	353.3
30°	413.4	398.5	366.0	339.7	329.6
32.5°	403.0	384.0	344.2	312.6	301.8
35°	390.0	365.0	317.3	284.1	275.0
37.5°	375.5	344.8	290.1	255.7	244.6
40°	359.0	321.7	261.4	226.9	216.2
42.5°	339.7	297.1	232.9	199.4	190.3
45°	319.2	269.6	203.8	173.2	164.7
47.5°	296.1	242.4	177.3	148.2	141.6
50°	272.1	215.2	152.3	127.4	120.7
52.5°	247.8	188.0	129.3	108.1	102.4
55°	219.3	162.1	110.3	91.7	86.6
57.5°	191.5	139.1	92.3	76.8	73.6
60°	164.7	116.9	77.4	64.8	62.6
62.5°	139.7	98.0	65.1	54.7	51.8
65°	115.7	82.2	54.0	46.1	43.9
67.5°	95.1	67.0	45.2	38.2	36.3
70°	76.8	54.0	36.7	31.3	30.3
72.5°	59.7	43.3	30.0	25.9	25.0
75°	46.1	33.8	23.7	20.9	19.9
77.5°	33.8	25.3	18.3	16.1	15.5
80°	23.4	18.0	13.6	12.3	12.0
82.5°	14.9	11.7	9.8	8.8	8.8
85°	7.9	7.3	6.3	6.0	5.7
87.5°	3.2	3.5	3.5	3.5	3.2
90°	0.0	0.9	1.3	1.6	1.6
92.5°	0.0	0.6	1.3	1.6	1.6
95°	0.0	0.3	0.9	1.6	1.6
97.5°	0.0	0.3	0.9	1.3	1.3
100°	0.0	0.3	0.6	1.3	1.3
102.5°	0.0	0.3	0.6	0.9	1.3
105°	0.0	0.3	0.6	0.9	0.9
107.5°	0.0	0.0	0.6	0.9	0.9
110°	0.0	0.0	0.3	0.6	0.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.3	0.6	0.9
115°	0.0	0.0	0.3	0.6	0.6
117.5°	0.0	0.0	0.3	0.6	0.6
120°	0.0	0.0	0.3	0.6	0.6
122.5°	0.0	0.0	0.3	0.6	0.6
125°	0.0	0.0	0.3	0.6	0.6
127.5°	0.0	0.3	0.3	0.3	0.6
130°	0.0	0.3	0.3	0.3	0.6
132.5°	0.3	0.3	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	0.3	0.3
157.5°	0.3	0.3	0.3	0.3	0.3
160°	0.3	0.3	0.3	0.3	0.6
162.5°	0.3	0.3	0.3	0.6	0.6
165°	0.3	0.3	0.3	0.6	0.6
167.5°	0.3	0.3	0.3	0.6	0.6
170°	0.3	0.3	0.3	0.6	0.6
172.5°	0.3	0.3	0.3	0.6	0.6
175°	0.3	0.3	0.6	0.6	0.6
177.5°	0.3	0.3	0.6	0.6	0.6
180°	0.6	0.6	0.6	0.6	0.6



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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	18.18	19.63	18.55	19.95	20.27	13.55	14.99	13.92	15.31	15.63
	3H	19.44	20.72	19.82	21.06	21.43	14.59	15.87	14.97	16.21	16.58
	4H	19.83	21.04	20.24	21.40	21.78	14.95	16.16	15.36	16.51	16.90
	6H	20.07	21.18	20.49	21.56	21.96	15.22	16.32	15.63	16.70	17.10
	8H	20.13	21.18	20.56	21.58	21.99	15.31	16.36	15.74	16.76	17.17
	12H	20.15	21.16	20.59	21.55	21.98	15.37	16.38	15.81	16.77	17.20
4H	2H	18.20	19.40	18.61	19.76	20.15	14.12	15.32	14.52	15.68	16.07
	3H	19.61	20.60	20.02	21.01	21.42	15.35	16.34	15.76	16.74	17.15
	4H	20.10	20.99	20.54	21.41	21.86	15.81	16.69	16.24	17.12	17.57
	6H	20.44	21.21	20.91	21.66	22.13	16.16	16.93	16.63	17.38	17.85
	8H	20.53	21.25	21.00	21.70	22.17	16.29	17.00	16.76	17.46	17.93
	12H	20.58	21.22	21.06	21.70	22.18	16.39	17.03	16.87	17.51	17.99
8H	4H	20.09	20.81	20.56	21.26	21.74	16.10	16.82	16.57	17.27	17.74
	6H	20.48	21.07	20.99	21.57	22.06	16.54	17.13	17.04	17.63	18.12
	8H	20.60	21.14	21.13	21.65	22.15	16.72	17.25	17.24	17.77	18.26
	12H	20.70	21.17	21.21	21.67	22.24	16.88	17.35	17.40	17.85	18.43
12H	4H	20.06	20.70	20.55	21.19	21.67	16.13	16.77	16.62	17.25	17.73
	6H	20.45	20.99	20.98	21.50	22.00	16.59	17.12	17.11	17.64	18.14
	8H	20.61	21.08	21.13	21.58	22.15	16.82	17.29	17.34	17.79	18.36