

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: P892924

Luminaire Tested: 2MB-SC3-AOL-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892924
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-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800
3500K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

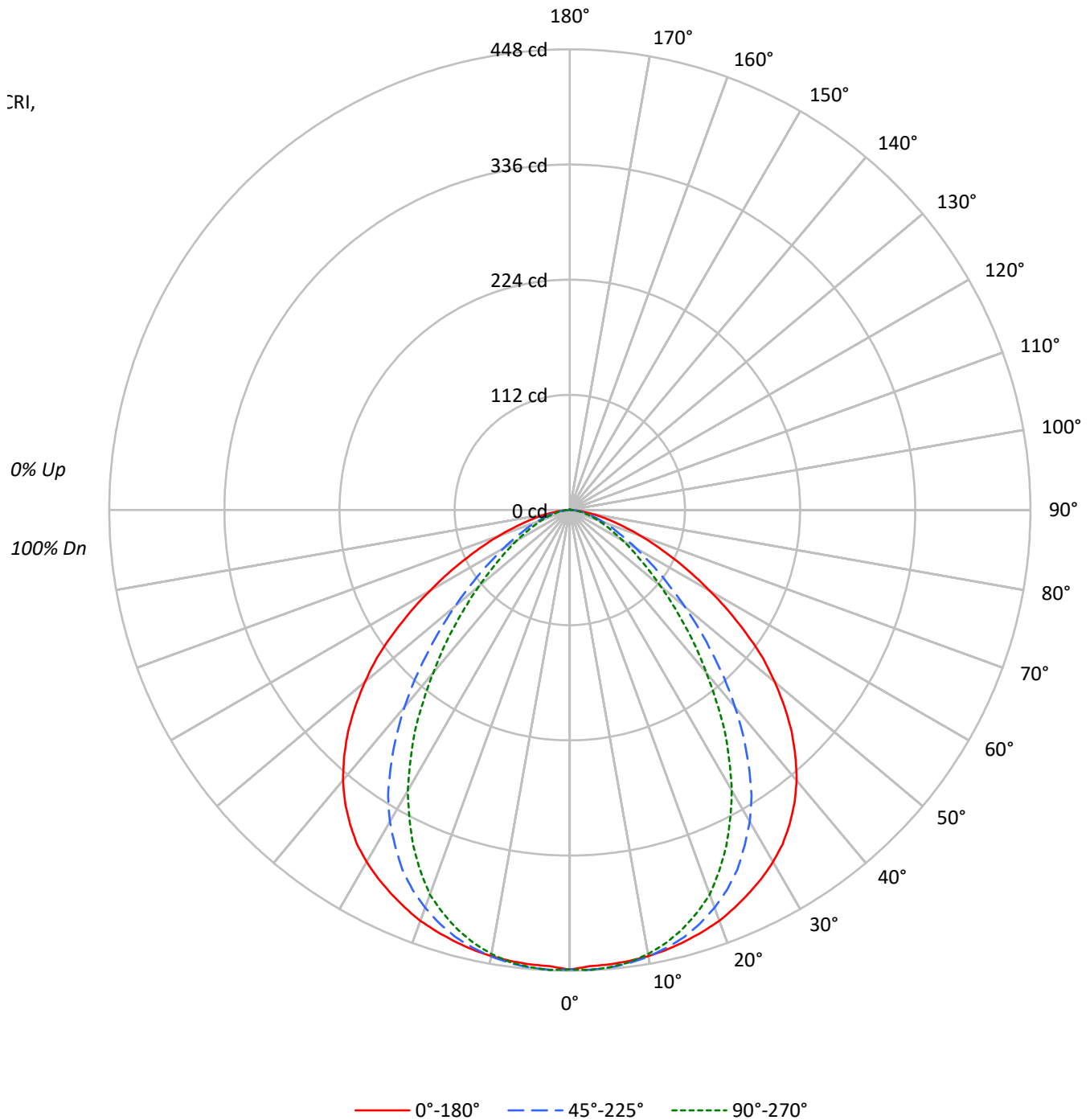
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 911.0 lumens
Efficiency: N/A
Efficacy: 132.0 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°	9149	9149	9149
5°	9116	9178	9172
10°	9159	9165	9115
15°	9202	9113	8948
20°	9263	8967	8670
25°	9297	8710	8136
30°	9344	8273	7450
35°	9319	7582	6569
40°	9174	6680	5522
45°	8835	5644	4558
50°	8286	4638	3676
55°	7486	3763	2956
60°	6446	3031	2449
65°	5359	2505	2035
70°	4394	2095	1736
75°	3489	1796	1503
80°	2641	1533	1356
85°	1786	1410	1269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8835 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	4.7
10°-20°	120.9	13.3
20°-30°	177.1	19.4
30°-40°	193.3	21.2
40°-50°	163.9	18.0
50°-60°	111.4	12.2
60°-70°	62.9	6.9
70°-80°	28.7	3.2
80°-90°	7.5	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°	340.5	37.4
0°-40°	533.7	58.6
0°-60°	809.0	88.8
0°-90°	908.1	99.7
90°-120°	1.8	0.2
90°-150°	2.5	0.3
90°-180°	3.0	0.3
0°-180°	911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	447	447	447	447	447	
5°	444	446	446	447	446	42
15°	434	434	430	425	422	123
25°	412	404	386	368	360	190
35°	373	349	303	272	263	233
45°	305	258	195	166	157	234
55°	210	155	105	88	83	187
65°	111	79	52	44	42	111
75°	44	32	23	20	19	48
85°	8	7	6	6	5	9
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°	446.8	446.8	446.8	446.8	446.8
2.5°	444.1	446.5	447.4	448.6	447.7
5°	443.5	445.9	446.5	447.4	446.2
7.5°	442.3	444.4	444.4	444.4	443.5
10°	440.5	442.0	440.8	439.6	438.4
12.5°	437.8	438.4	436.0	433.8	431.4
15°	434.1	433.8	429.9	425.1	422.1
17.5°	429.9	428.7	421.5	415.1	410.9
20°	425.1	422.1	411.5	401.5	397.9
22.5°	418.7	414.5	399.7	385.8	379.8
25°	411.5	404.5	385.5	368.0	360.1
27.5°	403.9	393.7	368.0	346.2	337.8
30°	395.2	381.0	349.9	324.8	315.1
32.5°	385.2	367.1	329.0	298.8	288.5
35°	372.8	348.9	303.3	271.6	262.8
37.5°	358.9	329.6	277.3	244.4	233.8
40°	343.2	307.6	249.9	216.9	206.6
42.5°	324.8	284.0	222.7	190.6	181.9
45°	305.1	257.7	194.9	165.6	157.4
47.5°	283.1	231.7	169.5	141.7	135.3
50°	260.1	205.7	145.6	121.8	115.4
52.5°	236.9	179.8	123.6	103.3	97.9
55°	209.7	155.0	105.4	87.6	82.8
57.5°	183.1	132.9	88.2	73.4	70.4
60°	157.4	111.8	74.0	61.9	59.8
62.5°	133.5	93.7	62.2	52.3	49.5
65°	110.6	78.6	51.7	44.1	42.0
67.5°	90.9	64.0	43.2	36.6	34.7
70°	73.4	51.7	35.0	29.9	29.0
72.5°	57.1	41.4	28.7	24.8	23.9
75°	44.1	32.3	22.7	19.9	19.0
77.5°	32.3	24.2	17.5	15.4	14.8
80°	22.4	17.2	13.0	11.8	11.5
82.5°	14.2	11.2	9.4	8.5	8.5
85°	7.6	6.9	6.0	5.7	5.4
87.5°	3.0	3.3	3.3	3.3	3.0
90°	0.0	0.9	1.2	1.5	1.5
92.5°	0.0	0.6	1.2	1.5	1.5
95°	0.0	0.3	0.9	1.5	1.5
97.5°	0.0	0.3	0.9	1.2	1.2
100°	0.0	0.3	0.6	1.2	1.2
102.5°	0.0	0.3	0.6	0.9	1.2
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	18.03	19.47	18.40	19.79	20.11	13.39	14.83	13.76	15.15	15.48
	3H	19.28	20.57	19.66	20.90	21.27	14.43	15.72	14.81	16.05	16.42
	4H	19.68	20.88	20.08	21.24	21.63	14.80	16.00	15.20	16.36	16.75
	6H	19.92	21.03	20.34	21.40	21.80	15.06	16.17	15.48	16.54	16.94
	8H	19.97	21.02	20.40	21.42	21.83	15.15	16.20	15.58	16.60	17.01
	12H	19.99	21.00	20.43	21.39	21.83	15.21	16.22	15.65	16.61	17.05
4H	2H	18.04	19.24	18.45	19.60	19.99	13.96	15.17	14.37	15.52	15.91
	3H	19.45	20.44	19.87	20.85	21.26	15.19	16.18	15.61	16.59	17.00
	4H	19.94	20.83	20.38	21.25	21.70	15.65	16.54	16.09	16.96	17.41
	6H	20.28	21.05	20.75	21.50	21.97	16.01	16.78	16.47	17.23	17.70
	8H	20.37	21.09	20.84	21.54	22.02	16.13	16.85	16.60	17.30	17.78
	12H	20.42	21.06	20.91	21.54	22.02	16.23	16.87	16.72	17.36	17.84
8H	4H	19.93	20.65	20.40	21.10	21.58	15.94	16.66	16.41	17.11	17.59
	6H	20.32	20.92	20.83	21.42	21.90	16.38	16.98	16.89	17.48	17.96
	8H	20.45	20.98	20.97	21.50	21.99	16.57	17.10	17.09	17.62	18.11
	12H	20.54	21.01	21.06	21.51	22.08	16.73	17.20	17.25	17.70	18.27
12H	4H	19.91	20.55	20.40	21.03	21.51	15.97	16.61	16.46	17.10	17.58
	6H	20.30	20.83	20.82	21.35	21.84	16.44	16.97	16.96	17.49	17.98
	8H	20.45	20.92	20.97	21.42	22.00	16.67	17.14	17.18	17.64	18.21