

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: P892927

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892927
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-MID-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800
3500K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

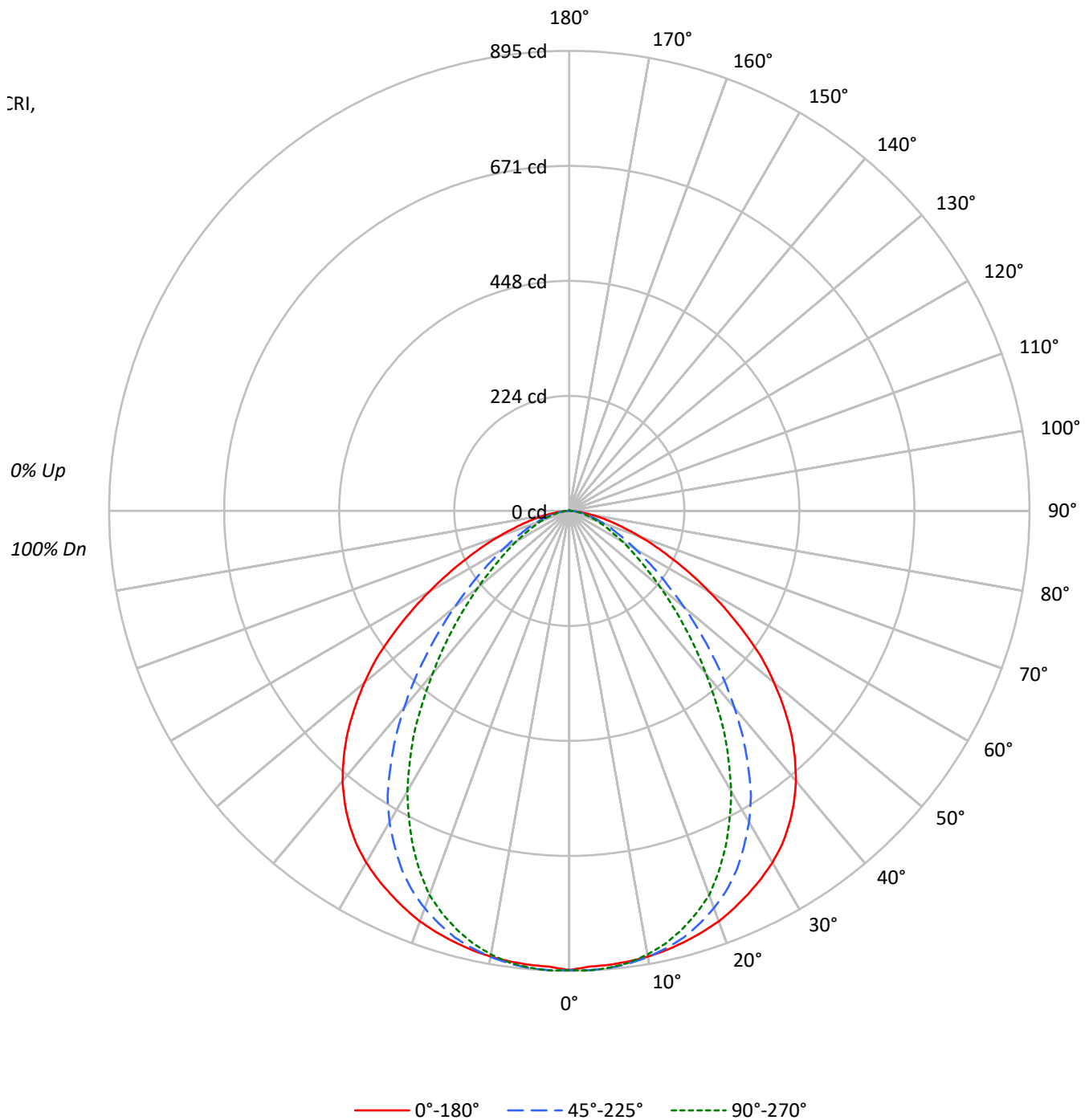
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1821.0 lumens
Efficiency: N/A
Efficacy: 131.0 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): 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°	18290	18290	18290
5°	18222	18347	18335
10°	18308	18320	18220
15°	18396	18218	17885
20°	18515	17923	17330
25°	18583	17410	16265
30°	18677	16534	14893
35°	18628	15156	13134
40°	18337	13349	11042
45°	17662	11279	9110
50°	16565	9273	7349
55°	14962	7525	5908
60°	12884	6061	4898
65°	10708	5005	4065
70°	8783	4197	3472
75°	6978	3584	3006
80°	5271	3066	2700
85°	3548	2843	2561

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17662 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	4.7
10°-20°	241.7	13.3
20°-30°	354.1	19.4
30°-40°	386.3	21.2
40°-50°	327.6	18.0
50°-60°	222.7	12.2
60°-70°	125.8	6.9
70°-80°	57.4	3.2
80°-90°	15.0	0.8
90°-100°	1.9	0.1
100°-110°	1.1	0.1
110°-120°	0.6	0.0
120°-130°	0.5	0.0
130°-140°	0.5	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	680.6	37.4
0°-40°	1066.9	58.6
0°-60°	1617.2	88.8
0°-90°	1815.3	99.7
90°-120°	3.7	0.2
90°-150°	5.1	0.3
90°-180°	6.0	0.3
0°-180°	1821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	886	891	893	894	892	84
15°	868	867	859	850	844	245
25°	822	809	771	736	720	380
35°	745	698	606	543	525	465
45°	610	515	390	331	315	468
55°	419	310	211	175	166	374
65°	221	157	103	88	84	222
75°	88	65	45	40	38	96
85°	15	14	12	12	11	19
90°	0	2	2	3	3	1
95°	0	1	2	3	3	0
105°	0	1	1	2	2	0
115°	0	0	1	1	1	0
125°	0	0	1	1	1	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°	893.2	893.2	893.2	893.2	893.2
2.5°	887.7	892.6	894.4	896.8	895.0
5°	886.5	891.4	892.6	894.4	892.0
7.5°	884.1	888.3	888.3	888.3	886.5
10°	880.5	883.5	881.1	878.7	876.3
12.5°	875.1	876.3	871.4	867.2	862.4
15°	867.8	867.2	859.4	849.7	843.7
17.5°	859.4	856.9	842.4	829.8	821.3
20°	849.7	843.7	822.5	802.6	795.3
22.5°	837.0	828.6	799.0	771.2	759.1
25°	822.5	808.6	770.6	735.6	719.9
27.5°	807.4	786.9	735.6	692.1	675.2
30°	789.9	761.5	699.3	649.2	629.9
32.5°	770.0	733.7	657.6	597.3	576.7
35°	745.2	697.5	606.3	542.9	525.4
37.5°	717.4	658.9	554.4	488.6	467.4
40°	686.0	614.8	499.4	433.6	413.1
42.5°	649.2	567.7	445.1	381.1	363.5
45°	609.9	515.1	389.5	330.9	314.6
47.5°	565.9	463.2	338.8	283.2	270.5
50°	520.0	411.3	291.1	243.4	230.7
52.5°	473.5	359.3	247.0	206.5	195.7
55°	419.1	309.8	210.8	175.1	165.5
57.5°	366.0	265.7	176.3	146.7	140.7
60°	314.6	223.4	148.0	123.8	119.6
62.5°	266.9	187.2	124.4	104.5	99.0
65°	221.0	157.0	103.3	88.2	83.9
67.5°	181.8	128.0	86.4	73.1	69.4
70°	146.7	103.3	70.1	59.8	58.0
72.5°	114.1	82.7	57.4	49.5	47.7
75°	88.2	64.6	45.3	39.9	38.0
77.5°	64.6	48.3	35.0	30.8	29.6
80°	44.7	34.4	26.0	23.6	22.9
82.5°	28.4	22.3	18.7	16.9	16.9
85°	15.1	13.9	12.1	11.5	10.9
87.5°	6.0	6.6	6.6	6.6	6.0
90°	0.0	1.8	2.4	3.0	3.0
92.5°	0.0	1.2	2.4	3.0	3.0
95°	0.0	0.6	1.8	3.0	3.0
97.5°	0.0	0.6	1.8	2.4	2.4
100°	0.0	0.6	1.2	2.4	2.4
102.5°	0.0	0.6	1.2	1.8	2.4
105°	0.0	0.6	1.2	1.8	1.8
107.5°	0.0	0.0	1.2	1.8	1.8
110°	0.0	0.0	0.6	1.2	1.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.6	1.2	1.8
115°	0.0	0.0	0.6	1.2	1.2
117.5°	0.0	0.0	0.6	1.2	1.2
120°	0.0	0.0	0.6	1.2	1.2
122.5°	0.0	0.0	0.6	1.2	1.2
125°	0.0	0.0	0.6	1.2	1.2
127.5°	0.0	0.6	0.6	0.6	1.2
130°	0.0	0.6	0.6	0.6	1.2
132.5°	0.6	0.6	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	0.6	0.6
157.5°	0.6	0.6	0.6	0.6	0.6
160°	0.6	0.6	0.6	0.6	1.2
162.5°	0.6	0.6	0.6	1.2	1.2
165°	0.6	0.6	0.6	1.2	1.2
167.5°	0.6	0.6	0.6	1.2	1.2
170°	0.6	0.6	0.6	1.2	1.2
172.5°	0.6	0.6	0.6	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	20.43	21.88	20.80	22.20	22.52	15.79	17.24	16.16	17.56	17.88
	3H	21.68	22.97	22.07	23.31	23.68	16.84	18.12	17.22	18.46	18.83
	4H	22.08	23.29	22.49	23.64	24.03	17.20	18.41	17.61	18.76	19.15
	6H	22.32	23.43	22.74	23.81	24.21	17.46	18.57	17.88	18.95	19.35
	8H	22.38	23.43	22.81	23.83	24.24	17.56	18.61	17.99	19.01	19.42
	12H	22.40	23.41	22.83	23.79	24.23	17.62	18.63	18.06	19.02	19.45
4H	2H	20.45	21.65	20.85	22.01	22.40	16.37	17.57	16.77	17.93	18.32
	3H	21.86	22.85	22.27	23.25	23.66	17.60	18.59	18.01	19.00	19.41
	4H	22.35	23.24	22.79	23.66	24.11	18.06	18.94	18.49	19.37	19.82
	6H	22.69	23.46	23.15	23.91	24.38	18.41	19.18	18.88	19.63	20.10
	8H	22.78	23.49	23.25	23.95	24.42	18.54	19.26	19.01	19.71	20.18
	12H	22.82	23.46	23.31	23.95	24.43	18.64	19.28	19.13	19.76	20.24
8H	4H	22.34	23.06	22.81	23.51	23.99	18.35	19.07	18.82	19.52	19.99
	6H	22.73	23.32	23.24	23.82	24.31	18.79	19.38	19.30	19.88	20.37
	8H	22.85	23.38	23.37	23.90	24.40	18.97	19.50	19.49	20.02	20.52
	12H	22.94	23.42	23.46	23.91	24.49	19.14	19.61	19.65	20.11	20.68
12H	4H	22.31	22.95	22.80	23.44	23.92	18.38	19.02	18.87	19.50	19.98
	6H	22.70	23.24	23.22	23.75	24.25	18.84	19.37	19.36	19.89	20.39
	8H	22.86	23.33	23.37	23.83	24.40	19.07	19.54	19.59	20.04	20.62