

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: P895788

Luminaire Tested: 2MB-SC3-ACL-UNV-CC93-MID-3500K

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-ACL-UNV-CC93-MID-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 3500K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

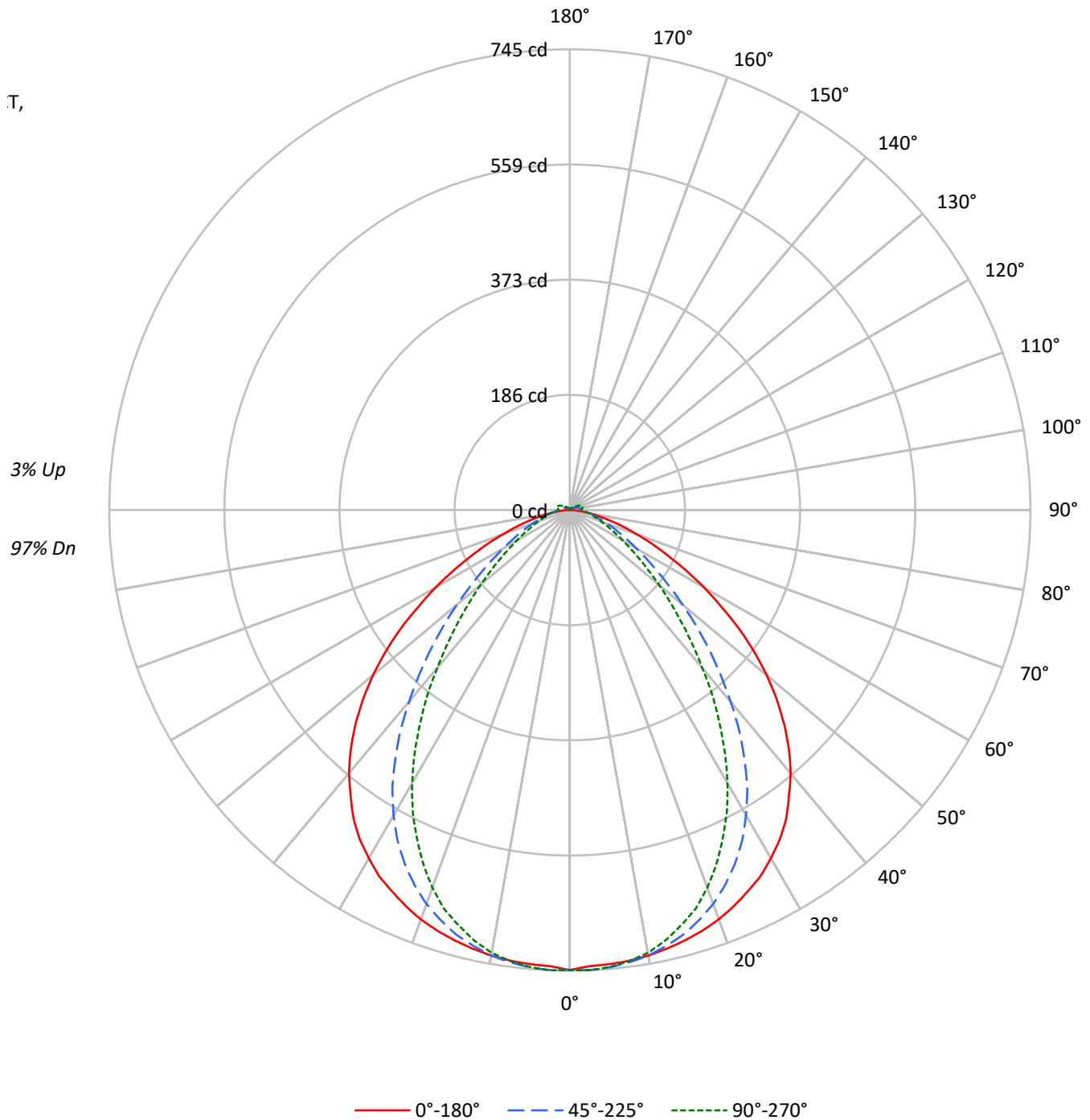
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1549.9 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.07 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.08')
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	110	105	102	98	107	103	100	97	98	96	93	94	92	90	90	88	87	87	87	87	84
2	101	94	88	83	98	92	86	82	88	83	80	84	81	77	81	78	75	75	75	75	73
3	93	84	77	71	91	82	76	70	79	73	69	76	71	67	73	69	66	66	66	66	64
4	86	76	68	62	84	74	67	61	71	65	60	69	63	59	66	62	58	58	58	58	56
5	80	68	60	54	78	67	60	54	65	58	53	63	57	52	61	56	52	52	52	52	50
6	74	62	54	48	72	61	54	48	59	52	47	57	51	47	56	50	46	46	46	46	44
7	69	57	49	43	68	56	49	43	54	48	43	53	47	42	51	46	42	42	42	42	40
8	65	52	45	39	63	52	44	39	50	43	39	49	43	38	47	42	38	38	38	38	36
9	61	48	41	36	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	38	33	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15232	15232	15232
5°	15097	14929	14840
10°	15100	14566	14324
15°	15101	14113	13597
20°	15120	13533	12709
25°	15079	12768	11539
30°	15011	11768	10214
35°	14809	10463	8656
40°	14347	8926	7053
45°	13625	7346	5591
50°	12607	5838	4362
55°	11224	4539	3378
60°	9562	3543	2646
65°	7817	2817	2103
70°	6198	2280	1727
75°	4786	1857	1509
80°	3408	1565	1367
85°	1951	1364	1230

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13625 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	4.5
10°-20°	199.9	12.9
20°-30°	290.5	18.7
30°-40°	314.1	20.3
40°-50°	265.0	17.1
50°-60°	181.5	11.7
60°-70°	105.9	6.8
70°-80°	54.0	3.5
80°-90°	23.3	1.5
90°-100°	14.1	0.9
100°-110°	12.6	0.8
110°-120°	8.6	0.6
120°-130°	4.8	0.3
130°-140°	2.6	0.2
140°-150°	1.4	0.1
150°-160°	0.7	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	560.9	36.2
0°-40°	875.0	56.5
0°-60°	1321.5	85.3
0°-90°	1504.7	97.1
90°-120°	35.4	2.3
90°-150°	44.2	2.9
90°-180°	45.0	2.9
0°-180°	1549.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	737	742	742	744	742	70
15°	720	720	711	702	695	204
25°	680	667	631	600	585	314
35°	610	571	492	440	422	380
45°	490	415	318	268	254	377
55°	333	253	173	145	137	297
65°	176	129	90	76	73	177
75°	70	57	46	42	41	76
85°	12	17	22	24	24	15
90°	0	8	16	18	18	1
95°	0	7	16	19	19	0
105°	0	4	14	20	21	0
115°	0	3	9	15	17	0
125°	0	2	5	9	10	0
135°	0	2	4	5	6	0
145°	0	1	3	3	4	0
155°	0	1	2	2	3	0
165°	0	0	1	2	2	0
175°	0	0	1	1	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.9	743.9	743.9	743.9	743.9
2.5°	738.3	742.9	744.4	746.4	744.9
5°	737.2	741.8	742.3	743.9	741.8
7.5°	735.2	738.8	737.7	737.7	735.7
10°	731.6	733.6	731.6	729.0	727.0
12.5°	726.5	728.0	721.9	718.3	713.2
15°	720.4	719.8	710.6	702.0	695.3
17.5°	713.2	709.6	695.3	682.0	676.4
20°	704.5	697.9	677.9	658.5	649.8
22.5°	693.3	684.1	656.5	631.4	619.6
25°	680.5	667.2	631.4	600.2	585.4
27.5°	667.7	647.8	603.3	564.4	550.1
30°	650.3	625.3	570.0	526.1	510.2
32.5°	631.9	600.2	534.3	483.1	467.3
35°	609.9	570.6	492.3	439.7	422.3
37.5°	582.3	535.8	449.9	394.7	379.9
40°	555.7	498.0	404.4	349.7	333.3
42.5°	524.5	457.1	360.4	307.3	292.4
45°	490.3	414.6	317.5	268.4	253.6
47.5°	454.0	374.2	276.6	231.1	219.3
50°	415.6	332.8	238.2	198.9	188.1
52.5°	374.7	291.4	203.0	170.2	160.5
55°	333.3	252.6	172.8	144.7	137.0
57.5°	289.9	215.2	147.2	123.2	116.1
60°	250.5	184.1	124.2	105.3	99.7
62.5°	211.7	155.4	105.8	89.5	84.9
65°	175.9	129.3	89.5	76.2	72.6
67.5°	144.7	108.4	76.7	65.4	62.9
70°	115.5	88.4	64.4	56.2	53.7
72.5°	91.0	71.6	54.2	48.6	47.0
75°	70.0	57.3	45.5	42.4	41.4
77.5°	51.1	44.0	38.3	36.8	36.3
80°	35.8	33.2	32.2	32.2	32.2
82.5°	22.5	24.5	27.1	28.1	28.1
85°	12.3	16.9	22.5	24.0	24.0
87.5°	5.1	11.8	18.9	20.5	19.9
90°	0.5	7.7	16.4	18.4	18.4
92.5°	0.0	7.7	16.4	18.4	18.4
95°	0.0	7.2	15.8	18.9	19.4
97.5°	0.0	6.6	15.8	19.4	19.9
100°	0.5	6.1	15.8	19.9	20.5
102.5°	0.0	5.1	14.8	19.9	21.0
105°	0.0	4.1	13.8	19.9	21.0
107.5°	0.0	3.1	12.8	18.9	20.5
110°	0.0	3.1	11.8	17.9	19.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	2.6	10.2	16.4	18.4
115°	0.0	2.6	8.7	14.8	16.9
117.5°	0.0	2.0	7.7	13.3	14.8
120°	0.0	2.0	6.6	11.8	13.3
122.5°	0.0	2.0	6.1	10.2	11.8
125°	0.0	1.5	5.1	8.7	10.2
127.5°	0.5	1.5	4.6	7.7	9.2
130°	0.5	1.5	4.1	6.6	8.2
132.5°	0.5	1.5	3.6	6.1	7.2
135°	0.5	1.5	3.6	5.1	6.1
137.5°	0.5	1.5	3.1	4.6	5.1
140°	0.5	1.5	2.6	4.1	4.6
142.5°	0.5	1.0	2.6	3.6	4.1
145°	0.5	1.0	2.6	3.1	3.6
147.5°	0.5	1.0	2.0	3.1	3.1
150°	0.5	1.0	2.0	2.6	3.1
152.5°	0.5	1.0	1.5	2.6	2.6
155°	0.5	1.0	1.5	2.0	2.6
157.5°	0.5	1.0	1.5	2.0	2.0
160°	0.5	1.0	1.0	1.5	2.0
162.5°	0.5	0.5	1.0	1.5	1.5
165°	0.5	0.5	1.0	1.5	1.5
167.5°	0.5	0.5	1.0	1.0	1.5
170°	0.5	0.5	1.0	1.0	1.0
172.5°	0.5	0.5	1.0	1.0	0.5
175°	0.5	0.5	1.0	1.0	0.5
177.5°	0.5	0.5	1.0	0.5	0.5
180°	0.5	0.5	0.5	0.5	0.5



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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	17.99	19.39	18.41	19.77	20.16	14.32	15.72	14.73	16.10	16.49
	3H	19.06	20.31	19.49	20.70	21.14	15.50	16.75	15.93	17.14	17.58
	4H	19.35	20.53	19.80	20.94	21.39	16.02	17.20	16.47	17.61	18.06
	6H	19.49	20.57	19.95	21.00	21.46	16.56	17.64	17.02	18.07	18.54
	8H	19.50	20.53	19.98	20.98	21.45	16.84	17.87	17.31	18.32	18.79
	12H	19.49	20.47	19.97	20.91	21.41	17.13	18.12	17.61	18.56	19.06
4H	2H	18.03	19.20	18.48	19.61	20.06	14.78	15.95	15.23	16.36	16.81
	3H	19.25	20.22	19.71	20.68	21.15	16.14	17.11	16.60	17.57	18.04
	4H	19.63	20.50	20.11	20.97	21.48	16.77	17.64	17.25	18.12	18.63
	6H	19.85	20.61	20.35	21.11	21.63	17.44	18.20	17.95	18.70	19.23
	8H	19.88	20.59	20.39	21.09	21.63	17.78	18.49	18.30	18.99	19.53
	12H	19.88	20.52	20.42	21.05	21.59	18.16	18.80	18.69	19.33	19.87
8H	4H	19.65	20.36	20.16	20.86	21.39	16.99	17.70	17.50	18.20	18.73
	6H	19.92	20.51	20.47	21.05	21.60	17.77	18.36	18.32	18.90	19.45
	8H	19.99	20.52	20.55	21.08	21.64	18.21	18.74	18.77	19.30	19.86
	12H	20.03	20.49	20.58	21.04	21.67	18.71	19.18	19.27	19.72	20.35
12H	4H	19.63	20.27	20.16	20.80	21.34	16.99	17.63	17.53	18.16	18.70
	6H	19.92	20.44	20.48	21.01	21.56	17.80	18.33	18.37	18.89	19.45
	8H	20.02	20.49	20.58	21.03	21.66	18.30	18.77	18.86	19.31	19.94