

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: P892936

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892936
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-CC93-MID-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 90C
3500K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

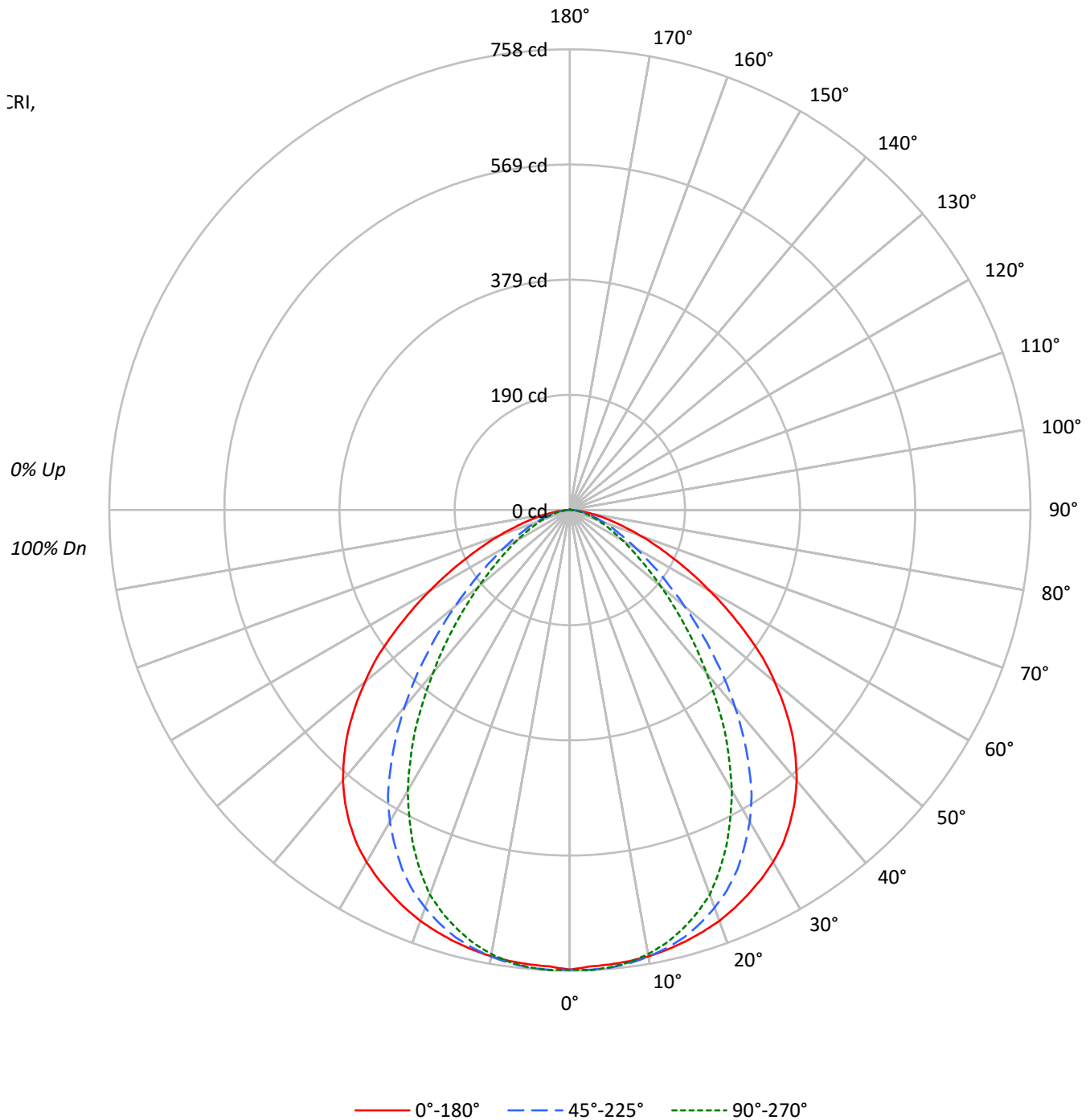
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1541.9 lumens
Efficiency: N/A
Efficacy: 110.9 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

TEST NUMBER: P892936
CATALOG NUMBER: 2MB-SC3-AOL-UNV-CC93-MID-3500K

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°	15486	15486	15486
5°	15430	15535	15525
10°	15503	15513	15428
15°	15577	15426	15144
20°	15678	15177	14676
25°	15736	14742	13773
30°	15816	14002	12612
35°	15773	12834	11121
40°	15528	11304	9350
45°	14957	9550	7714
50°	14026	7852	6221
55°	12670	6372	5002
60°	10910	5131	4149
65°	9070	4235	3445
70°	7442	3550	2940
75°	5910	3038	2548
80°	4457	2594	2288
85°	3007	2396	2161

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14957 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	4.7
10°-20°	204.7	13.3
20°-30°	299.8	19.4
30°-40°	327.2	21.2
40°-50°	277.4	18.0
50°-60°	188.5	12.2
60°-70°	106.5	6.9
70°-80°	48.6	3.2
80°-90°	12.7	0.8
90°-100°	1.6	0.1
100°-110°	1.0	0.1
110°-120°	0.5	0.0
120°-130°	0.4	0.0
130°-140°	0.4	0.0
140°-150°	0.3	0.0
150°-160°	0.2	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	576.3	37.4
0°-40°	903.4	58.6
0°-60°	1369.4	88.8
0°-90°	1537.2	99.7
90°-120°	3.1	0.2
90°-150°	4.2	0.3
90°-180°	5.0	0.3
0°-180°	1541.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	751	755	756	757	755	72
15°	735	734	728	720	714	208
25°	696	685	652	623	610	321
35°	631	591	513	460	445	394
45°	516	436	330	280	266	397
55°	355	262	178	148	140	317
65°	187	133	87	75	71	188
75°	75	55	38	34	32	81
85°	13	12	10	10	9	16
90°	0	2	2	3	3	1
95°	0	0	2	3	3	0
105°	0	0	1	2	2	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°	756.3	756.3	756.3	756.3	756.3
2.5°	751.7	755.8	757.3	759.4	757.9
5°	750.7	754.8	755.8	757.3	755.3
7.5°	748.7	752.2	752.2	752.2	750.7
10°	745.6	748.1	746.1	744.1	742.0
12.5°	741.0	742.0	737.9	734.3	730.2
15°	734.8	734.3	727.7	719.5	714.4
17.5°	727.7	725.6	713.4	702.6	695.5
20°	719.5	714.4	696.5	679.6	673.5
22.5°	708.8	701.6	676.6	653.0	642.8
25°	696.5	684.7	652.5	622.9	609.6
27.5°	683.7	666.3	622.9	586.0	571.7
30°	668.9	644.8	592.2	549.7	533.4
32.5°	652.0	621.3	556.9	505.8	488.4
35°	631.0	590.6	513.4	459.7	444.9
37.5°	607.5	557.9	469.4	413.7	395.8
40°	580.9	520.6	422.9	367.2	349.8
42.5°	549.7	480.7	376.9	322.7	307.8
45°	516.5	436.2	329.8	280.2	266.4
47.5°	479.2	392.2	286.9	239.8	229.1
50°	440.3	348.2	246.5	206.1	195.3
52.5°	400.9	304.3	209.2	174.9	165.7
55°	354.9	262.3	178.5	148.3	140.1
57.5°	309.9	225.0	149.3	124.3	119.2
60°	266.4	189.2	125.3	104.8	101.3
62.5°	226.0	158.5	105.3	88.5	83.9
65°	187.2	133.0	87.4	74.7	71.1
67.5°	153.9	108.4	73.1	61.9	58.8
70°	124.3	87.4	59.3	50.6	49.1
72.5°	96.7	70.1	48.6	41.9	40.4
75°	74.7	54.7	38.4	33.8	32.2
77.5°	54.7	40.9	29.7	26.1	25.1
80°	37.8	29.1	22.0	19.9	19.4
82.5°	24.0	18.9	15.9	14.3	14.3
85°	12.8	11.8	10.2	9.7	9.2
87.5°	5.1	5.6	5.6	5.6	5.1
90°	0.0	1.5	2.0	2.6	2.6
92.5°	0.0	1.0	2.0	2.6	2.6
95°	0.0	0.5	1.5	2.6	2.6
97.5°	0.0	0.5	1.5	2.0	2.0
100°	0.0	0.5	1.0	2.0	2.0
102.5°	0.0	0.5	1.0	1.5	2.0
105°	0.0	0.5	1.0	1.5	1.5
107.5°	0.0	0.0	1.0	1.5	1.5
110°	0.0	0.0	0.5	1.0	1.5



TEST NUMBER: P892936

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.5	1.0	1.5
115°	0.0	0.0	0.5	1.0	1.0
117.5°	0.0	0.0	0.5	1.0	1.0
120°	0.0	0.0	0.5	1.0	1.0
122.5°	0.0	0.0	0.5	1.0	1.0
125°	0.0	0.0	0.5	1.0	1.0
127.5°	0.0	0.5	0.5	0.5	1.0
130°	0.0	0.5	0.5	0.5	1.0
132.5°	0.5	0.5	0.5	0.5	0.5
135°	0.5	0.5	0.5	0.5	0.5
137.5°	0.5	0.5	0.5	0.5	0.5
140°	0.5	0.5	0.5	0.5	0.5
142.5°	0.5	0.5	0.5	0.5	0.5
145°	0.5	0.5	0.5	0.5	0.5
147.5°	0.5	0.5	0.5	0.5	0.5
150°	0.5	0.5	0.5	0.5	0.5
152.5°	0.5	0.5	0.5	0.5	0.5
155°	0.5	0.5	0.5	0.5	0.5
157.5°	0.5	0.5	0.5	0.5	0.5
160°	0.5	0.5	0.5	0.5	1.0
162.5°	0.5	0.5	0.5	1.0	1.0
165°	0.5	0.5	0.5	1.0	1.0
167.5°	0.5	0.5	0.5	1.0	1.0
170°	0.5	0.5	0.5	1.0	1.0
172.5°	0.5	0.5	0.5	1.0	1.0
175°	0.5	0.5	1.0	1.0	1.0
177.5°	0.5	0.5	1.0	1.0	1.0
180°	1.0	1.0	1.0	1.0	1.0



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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	19.85	21.30	20.23	21.62	21.94	15.22	16.66	15.59	16.98	17.31
	3H	21.11	22.39	21.49	22.73	23.10	16.26	17.55	16.64	17.88	18.25
	4H	21.51	22.71	21.91	23.07	23.46	16.63	17.83	17.03	18.19	18.58
	6H	21.75	22.86	22.16	23.23	23.63	16.89	18.00	17.31	18.37	18.77
	8H	21.80	22.85	22.23	23.25	23.66	16.98	18.03	17.41	18.43	18.84
	12H	21.82	22.83	22.26	23.22	23.65	17.04	18.05	17.48	18.44	18.88
4H	2H	19.87	21.07	20.28	21.43	21.82	15.79	17.00	16.20	17.35	17.74
	3H	21.28	22.27	21.69	22.68	23.09	17.02	18.01	17.44	18.42	18.83
	4H	21.77	22.66	22.21	23.08	23.53	17.48	18.37	17.92	18.79	19.24
	6H	22.11	22.88	22.58	23.33	23.80	17.84	18.61	18.30	19.06	19.53
	8H	22.20	22.92	22.67	23.37	23.84	17.96	18.68	18.43	19.13	19.61
	12H	22.25	22.89	22.73	23.37	23.85	18.06	18.70	18.55	19.19	19.67
8H	4H	21.76	22.48	22.23	22.93	23.41	17.77	18.49	18.24	18.94	19.42
	6H	22.15	22.75	22.66	23.25	23.73	18.21	18.81	18.72	19.31	19.79
	8H	22.27	22.81	22.80	23.32	23.82	18.39	18.93	18.92	19.44	19.94
	12H	22.37	22.84	22.88	23.34	23.91	18.56	19.03	19.07	19.53	20.10
12H	4H	21.74	22.38	22.23	22.86	23.34	17.80	18.44	18.29	18.93	19.41
	6H	22.12	22.66	22.65	23.17	23.67	18.27	18.80	18.79	19.32	19.81
	8H	22.28	22.75	22.80	23.25	23.82	18.50	18.97	19.01	19.46	20.04